

Janisol Arte 2.0

Beschlageinbau und Verarbeitung

Janisol Arte 2.0

Montage des ferrures et usinage

Janisol Arte 2.0

Installation of fittings and assembly

Beschlageinbau
und Montage
Janisol Arte 2.0

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et usinage
Janisol Arte 2.0

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Installation of fittings
and assembly
Janisol Arte 2.0

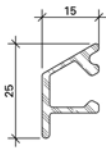
Release date 09/2022
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Eine Liste der aktuellen Änderungen und Ergänzungen finden Sie am Ende des Kataloges!
Une liste des dernières modifications et ajouts est disponible à la fin du catalogue!
A table of actual modifications and additions can be found at the end of the catalogue!

Bei grau hinterlegten Artikeln muss die Verfügbarkeit angefragt werden.

Pour les produits marqués en gris, la disponibilité doit être demandée.

Items which are marked in grey, the stock availability needs to be inquired.



000.000
Wetterschenkel
Aluminium roh
Gewicht 0,266 kg/m
U = 0,100 m²/m
P = 0,034 m²/m
Länge 6 m

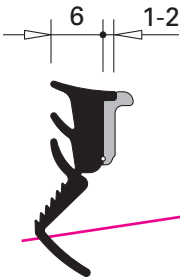
000.000
Renvoi d'eau
aluminium brut
poids 0,266 kg/m
U = 0,100 m²/m
P = 0,034 m²/m
Longueur 6 m

000.000
Weatherbar
aluminium mill finish
weight 0,266 kg/m
U = 0,100 m²/m
P = 0,034 m²/m
Length 6 m

Artikel, welche rot durchgestrichen sind, wurden aus dem Sortiment genommen.

Les articles barrés en rouge ont été retirés de la gamme.

Articles that have a red line through them have been removed from the product range.



000.000
Glasdichtung
mit Abreissteg
EPDM, schwarz,
für Glasleistenseite
Einsatz siehe Seiten 34/35
VE = 100 m

000.000
Joint de vitrage
avec partie déchirable
EPDM, noir,
pour côté parclose
Utilisation voir pages 34/35
UV = 100 m

000.000
Glazing weatherstrip
with detachable strip
EPDM, black,
for glazing bead side
Application see pages 34/35
PU = 100 m

Allgemeine Hinweise

Conseils générales

General informations

3

Bänder

- Drehfenster ein- und zweiflügelig
- Kippfenster

Paumelles

- Drehfenster ein- und zweiflügelig
- Fenêtre à soufflet

Hinges

- Single- and double
sash side-hung window
- Bottom-hung window

34

Auflaufbock
Kantenriegel

Bloc d'arrêt
Verrou à bascule

Engagement block
Flush bolt

52

Beschlag
mit Getriebe
557.279 / 557.280

Drehfenster ein- und zweiflügelig

Ferrure avec
crémone de tringle
557.279 / 557.280

Fenêtre à la française un et
deux vantaux

Fitting with
mechanism rod
557.279 / 557.280

Single- and double sash
side-hung window

68

Beschlag
mit Getriebe
557.187

Drehfenster ein- und zweiflügelig

Ferrure avec
crémone de tringle
557.187

Fenêtre à la française un et
deux vantaux

Fitting with
mechanism rod
557.187

Single- and double sash
side-hung window

170

Fenstertüre

Porte-fenêtre

Window-door

243

Sonderbeschläge
Drehfenster

Ferrures spéciales
fenêtre à la française

Special fittings for
side-hung windows

251

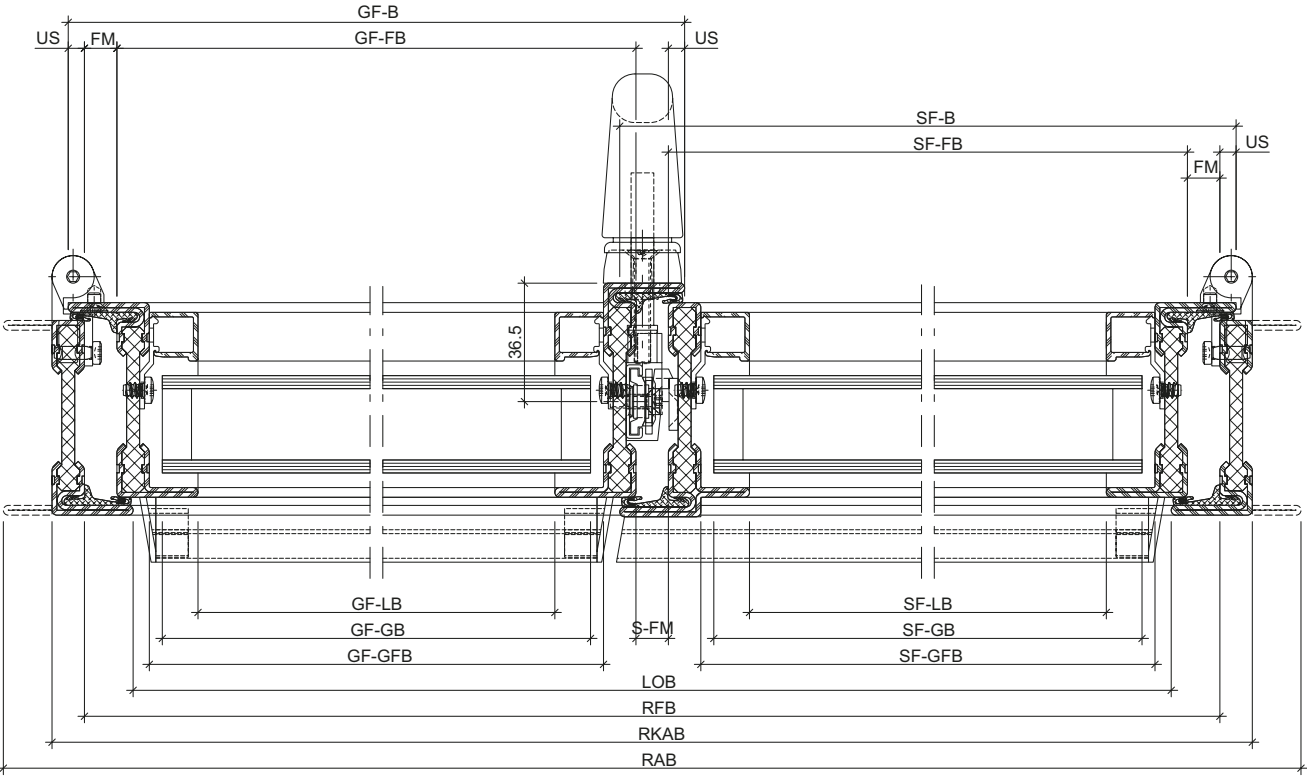
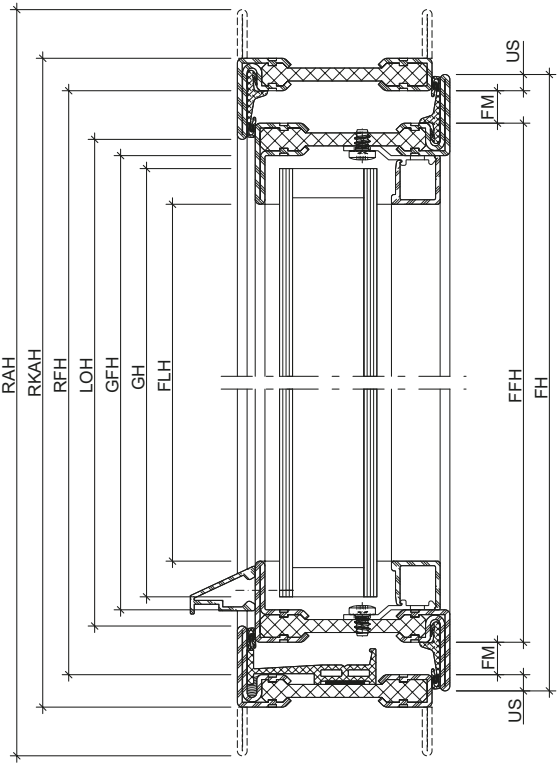
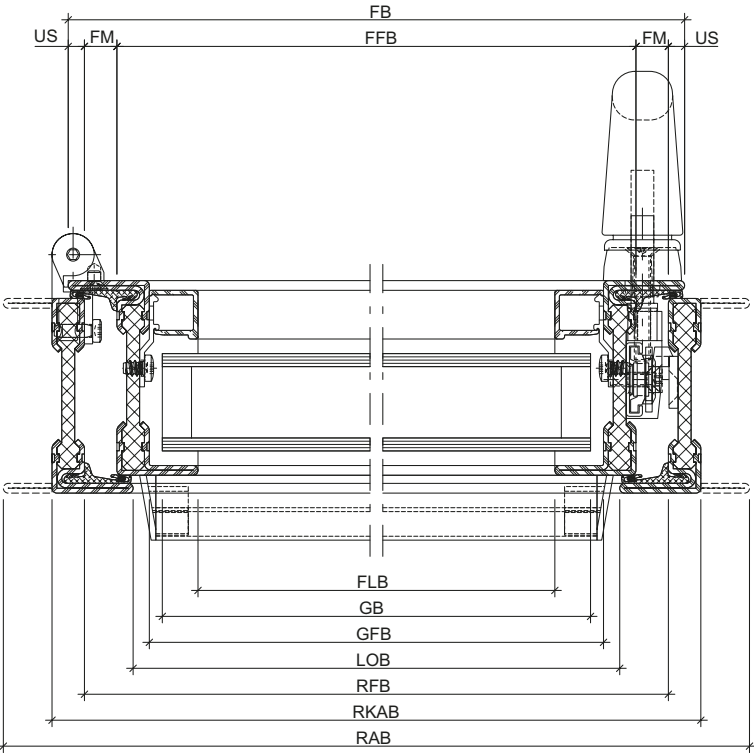
Aufgesetzter Beschlag	Ferrure plaquée	Surface-mounted fitting	254
Feststellstangen	Barre de blocage	Peg stay	265
Kippfenster	Fenêtre à soufflet	Bottom-hung window	269
Klappfenster	Fenêtre basculante	Top-hung window	292
Senkkippfenster	Fenêtre à l'italienne	Projected top-hung window	296
Fixiertes Fenster	Fenêtre fixe	Fixed window	301
Schwingfenster	Fenêtre basculante	Horizontal pivot window	307
Wendefenster	Fenêtre pivotante	Vertical pivot window	357
Verblechte Ausführung	Exécution tôleée	Sheet metal-clad design	411
Verarbeitungshinweise	Indications d'usage	Assembly instructions	419

Allgemeine Hinweise	Conseils générales	General informations	
Massbezeichnungen	Dimensions cotées	Measurement descriptions	4
Verarbeitung	Usinage	Assembly	6
Toleranzen	Tolérances	Tolerances	6
Zuschnitt	Découpe	Cutting	8
Übersicht Einspannunterlagen	Sommaire des supports	Summary of supports	9
Ausbildungen	Formations	Constructions	10
Vorbereitung bei statisch relevanten Knotenpunkten	Préparation pour les points de jonction importants au niveau statique	Preparation for structurally relevant intersection points	18
Schweissvorgang Kreuzpunkte	Procédure de soudage points d'intersection	Welding process for intersections	19
Zuschnitt und Profilbearbeitung Stulpfenster	Découpe et usinage profilé de battement Fenêtre à deux vantaux	Cutting and profile shaping Double sash windows	23
Profile mit Kammermass 25 mm und 50 mm Aluminiumblenden kürzen	Profilés aux dimensions de caisson de 25 mm et 50 mm Raccourcir les caches en aluminium	Profiles with chamber sizes of 25 mm and 50 mm Shorten aluminium cover plates	25
Anordnung und Einbau Entwässerungstülle	Disposition et montage douille d'écoulement	Location and installation of drain pipe 450.115	26
Schweißen	Soudage	Welding	32

Massbezeichnungen

Dimensions cotées

Measurement descriptions



Massbezeichnungen

Dimensions cotées

Measurement descriptions

US	Überschlag	Recouvrement	Overlap
FM	Falzmass	Dimension de la feuillure	Rebate
FH	Flügelhöhe	Hauteur du vantail	Leaf height
FFH	Flügelalzhöhe	Hauteur de feuillure du vantail	Leaf rebate height
FLH	Flügel-Lichtmasshöhe	Hauteur vide lumière du vantail	Clear height dimension of leaf
FB	Flügelbreite	Largeur du vantail	Leaf width
FFB	Flügelalzbreite	Largeur de feuillure du vantail	Leaf rebate width
FLB	Flügel-Lichtmassbreite	Largeur vide lumière du vantail	Clear width dimension of leaf
GH	Glashöhe	Hauteur du verre	Glass height
GFH	Glasfalzhöhe	Hauteur de feuillure du verre	Glazing rebate height
GB	Glasbreite	Largeur du verre	Glass width
GFB	Glasfalzbreite	Largeur de feuillure du verre	Glazing rebate width
LOH	Lichte Durchgangshöhe	Hauteur vide lumière	Clear opening height
RFH	Rahmenfalzhöhe	Hauteur de feuillure du dormant	Frame rebate height
RAH	Rahmenaussenhöhe	Hauteur extérieur du dormant	External frame height
LOB	Lichte Durchgangsbreite	Largeur vide lumière	Clear opening width
RFB	Rahmenfalzbreite	Largeur de feuillure du dormant	Frame rebate width
RAB	Rahmenaussenbreite	Largeur extérieur du dormant	External frame width
GF-B	Gangflügel-Breite	Largeur du vantail de service	Access leaf width
GF-FB	Gangflügel-Falzbreite	Largeur de feuillure du vantail de service	Access leaf rebate width
GF-LB	Gangflügel-Lichtmassbreite	Vide lumière du vantail de service	Clear width dimension of access leaf
GF-GB	Gangflügel-Glasbreite	Largeur du verre du vantail de service	Glass width of access leaf
GF-GFB	Gangflügel-Glasfalzbreite	Largeur de feuillure du verre du vantail de service	Glazing rebate width of access leaf
SF-B	Standflügel-Breite	Largeur du vantail semi-fixe	Secondary leaf width
SF-FB	Standflügel-Falzbreite	Largeur de feuillure du vantail semi-fixe	Rebate width of secondary leaf
SF-LB	Standflügel-Lichtmassbreite	Vide lumière du vantail semi-fixe	Clear width dimension of secondary leaf
SF-GB	Standflügel-Glasbreite	Largeur du verre du vantail semi-fixe	Glass width of secondary leaf
SF-GFB	Standflügel-Glasfalzbreite	Largeur de feuillure du verre du vantail semi-fixe	Glazing rebate width of secondary leaf
S-FM	Stulpflügel-Falzmass	Dimension de la feuillure fenêtre à deux vantaux	Double leaf rebate

Verarbeitung

Grundsätzlich kann Janisol Arte wie die übrigen Janisol-Profilssysteme verarbeitet werden. Das heisst, dass für die Verarbeitung keine speziellen Maschinen beschafft oder sonstige besondere Massnahmen zu treffen sind. Durch die einfachen Profilformen sind die üblichen Verarbeitungsprozesse wie schweissen und schleifen problemlos durchführbar.

Beim Bohren, Sägen und Bearbeiten der Profile wird Glasfaserstaub freigesetzt. Dieser kann Reizungen der Haut und Augen auslösen. Um dies zu vermeiden sollten bei diesen Arbeiten die Haut und die Augen im Bedarfsfall geschützt werden (geschlossene Arbeitskleidung, Schutzbrille, Handschuhe).

Toleranzen

Durch die sehr schlanken Profile und die minimalen Ansichten müssen die Fertigungstoleranzen allgemein enger gehalten werden als bei den übrigen Jansen-Profilsystemen. Dies gilt insbesondere für Fensterflügel, wo die Flügelfalzmasse von lediglich 10 mm erhöhte Anforderungen an die Masshaltigkeit von Rahmen und Flügel stellen.

Glasbestellung

Glaslieferanten auf die minimale Einstandtiefe hinweisen.
Randverbund möglichst klein.

Die Grössen der Isoliergläser sind wie folgt zu tolerieren:
Breite und Höhe +0/-2 mm.

Usinage

Janisol Arte peut fondamentalement être usiné comme les autres systèmes de profilés Janisol. Il n'est donc pas nécessaire de se procurer des machines spéciales ou de prendre d'autres mesures particulières pour l'usinage. Grâce aux formes de profilés simples, les processus d'usinage usuels tels que le soudage et le meulage s'exécutent sans problème.

La poussière de fibre de verre est libérée lors du perçage, du sciage et de l'usinage des profilés. Celle-ci peut provoquer des irritations de la peau et des yeux qui peuvent être évitées en protégeant ces parties du corps lors de ces travaux, si nécessaire. Pour les yeux, il faut utiliser des lunettes de protection, et pour la peau, une tenue de travail fermée et en particulier des gants de protection.

Tolérances

Grâce aux profilés très fins et aux formes minimalistes, les tolérances doivent être en général maintenues plus en-deçà de celles des autres systèmes de profilés Jansen. Cela concerne en particulier les ouvrants de fenêtre sur lesquels la feuillure de seulement 10 mm exige un respect beaucoup plus précis des cotes du cadre et du vantail.

Commande de vitrage

Signaler la profondeur de prise en feuillure minimale aux fournisseurs de vitrage. Scellement le plus petit possible.

La tolérance relative aux verres isolants est la suivante:
largeur et hauteur +0/-2 mm.

Assembly

Janisol Arte can generally be fabricated in the same way as the other Janisol profile systems. This means that no special machines or measures for fabrication are required. Due to the simple profile types, the standard fabrication processes, such as welding and grinding, can be carried out easily.

Glass fibre dust is released when drilling, sawing or processing the profiles. This dust can irritate the skin and eyes. To avoid any irritation, protect skin and eyes as required when carrying out these tasks. Wear goggles to protect the eyes. Ensure skin is covered by protective work clothing and, in particular, wear gloves.

Tolerances

Due to the slim profiles and minimal face widths, the tolerances must be kept smaller than for the other Jansen profile systems. This applies in particular to window sash, where the sash rebate size places an increased requirement of 10 mm on the dimensional accuracy of the frames and sash.

Glass order

Advise the glass supplier of the minimum edge cover depth. Edge seal as small as possible.

The following size tolerances for the insulating glass are to be permitted:
+0/-2 mm in height and width.

Bei der Erstellung von Fenstern ist die Masshaltigkeit besonders zu beachten. Die geschweissten Flügelrahmen tendieren beim Zuschnitt auf die theoretischen Sollmasse eher auf Übermass. Aus diesem Grund empfehlen wir, diesen Umstand beim Zuschnitt zu berücksichtigen

Zuschnitt Flügelprofile:

Breite = theoretisches Sollmass - 1 mm
Höhe = theoretisches Sollmass - 1 mm

Zuschnitt Rahmenprofile:

Breite = theoretisches Sollmass
Höhe = theoretisches Sollmass

Le respect des cotes doit être tout particulièrement respecté lors de la création de fenêtres. Les cadres de vantaux soudés ont par expérience tendance à être surmesurés lors de leur découpe à la cote de consigne théorique. Pour cette raison, nous recommandons d'en tenir compte lors de la découpe des profilés de vantaux.

Découpe profilés de vantail:

Largeur = cote de consigne théorique -1 mm
Hauteur = cote de consigne théorique -1 mm

Découpe profilés de cadre:

Largeur = cote de consigne théorique
Hauteur = cote de consigne théorique

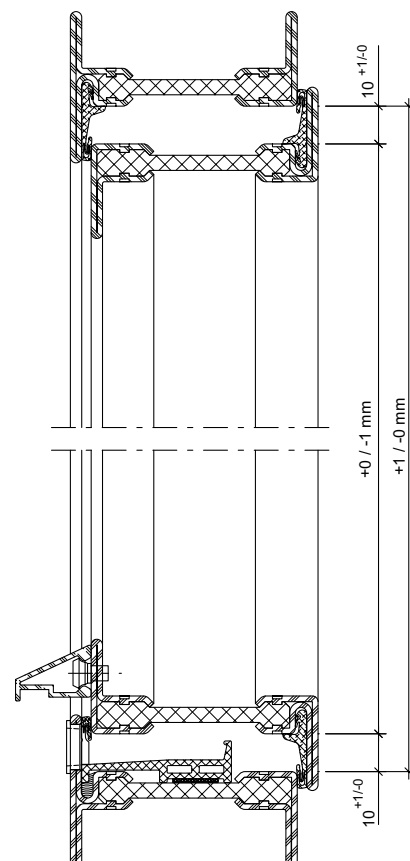
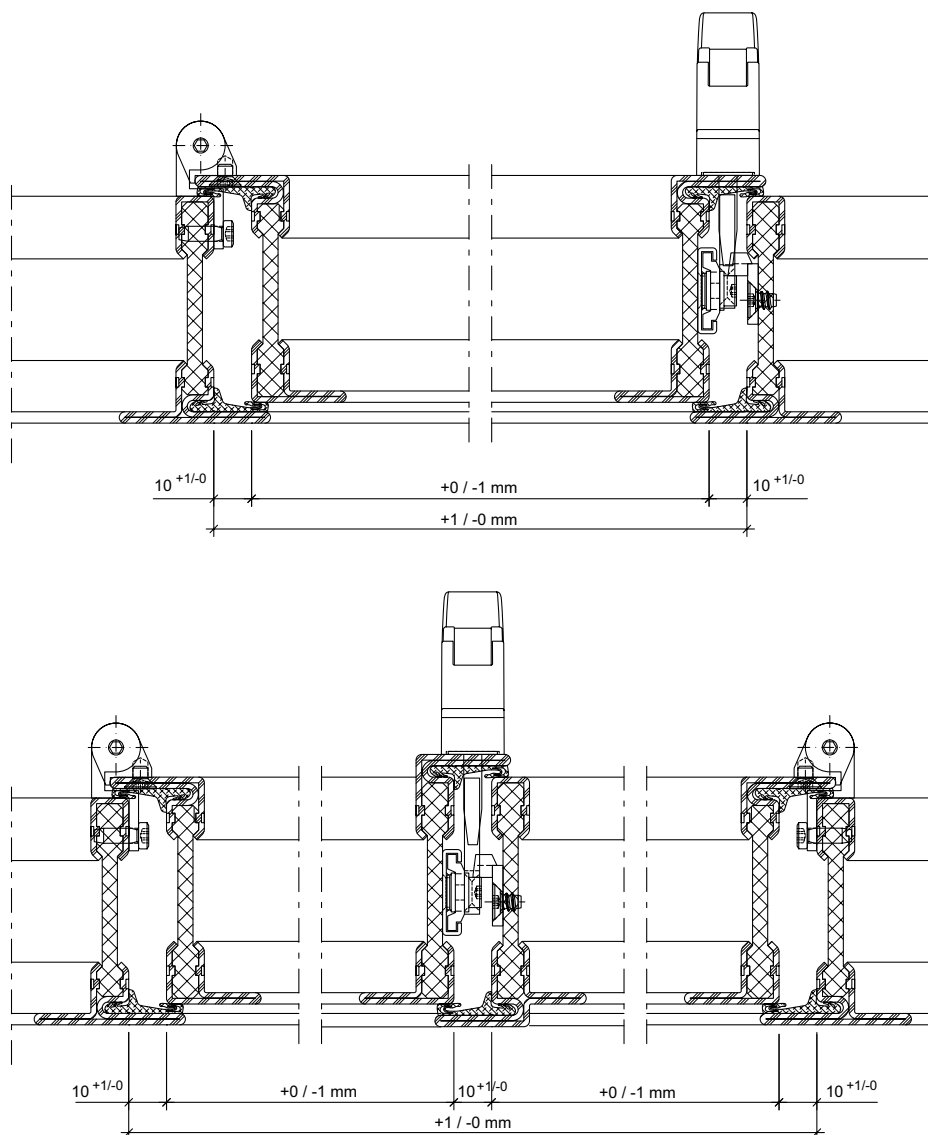
The experiences of several metal-working companies have shown that special attention must be paid to dimensional accuracy, particularly when making windows. It has been found that the welded leaf frame tends to be slightly oversized when cut to the theoretical design dimensions. For this reason, we recommend that this situation is taken into account when cutting the leaf profiles to size.

When cutting leaf profiles to size:

Width = Theoretical design dimension -1 mm
Height = Theoretical design dimension -1 mm

When cutting frame profiles to size:

Width = Theoretical design dimension
Height = Theoretical design dimension



Zuschnitt

Die Janisol Arte-Profile lassen sich mit den herkömmlichen Metallsägemaschinen zuschneiden. Beim Zuschnitt sollten jedoch, im Besonderen bei Gehrungsschnitten, generell passende Einspannunterlagen (z.B. 499.294) verwendet werden, damit eine einwandfreie Profileinspannung gewährleistet wird.

Aufgrund der sehr schmalen Profilformen sollte die Vorschubgeschwindigkeit beim Sägen im Vergleich zu üblichen Stahlrohrprofilen reduziert werden.

Für den Zuschnitt der Profile wird generell eine Mikrosprüh-Schmierung empfohlen. Zusätzlich ist der Hinweis bezüglich Massgenauigkeit zu beachten.

Découpe

Les profilés Janisol Arte peuvent être découpés avec les scies mécaniques usuelles. Lors de la découpe, il faut cependant utiliser, en particulier pour les coupes en biseau, en général des cales (par ex. 499.294) afin de garantir un serrage optimal du profilé.

En raison des formes étroites des profilés, la vitesse d'avance lors du sciage doit être réduite en comparaison avec les profilés tubulaires en acier habituels.

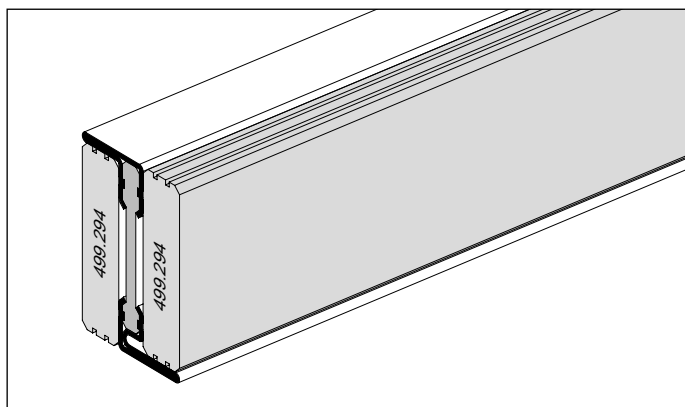
Une lubrification par micropulvérisation est en général recommandée pour la découpe des profilés. La consigne ci-dessus citée relative à la précision des cotes devrait en outre être respectée.

Cutting

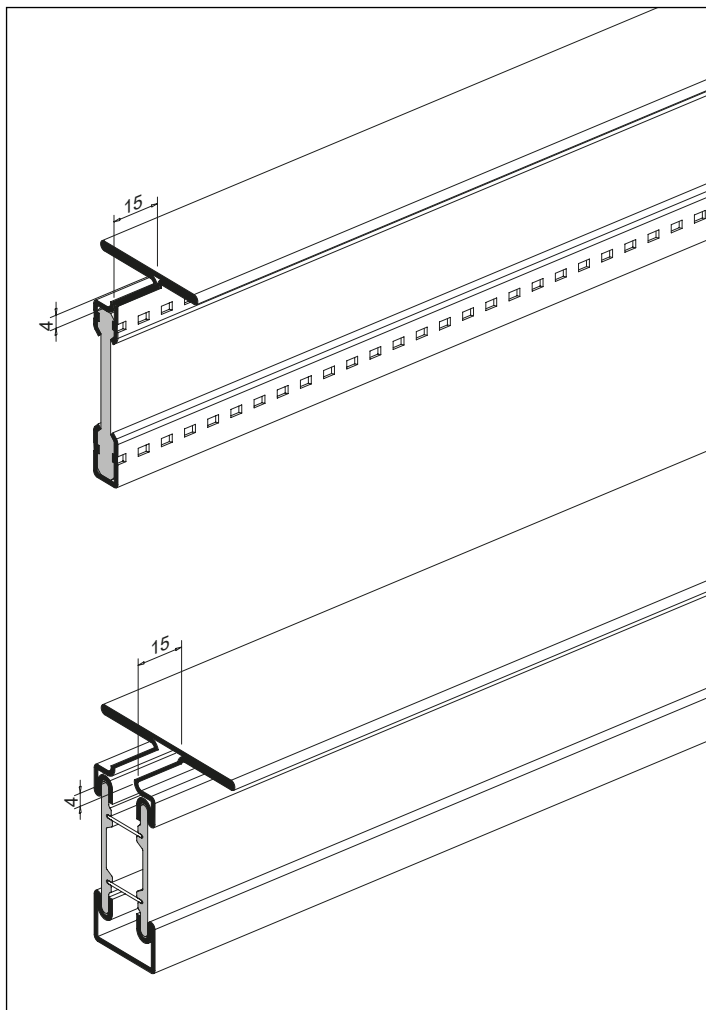
Cut the Janisol Arte profiles with the consashional metal saw. However, when cutting and, in particular, when performing mitre cuts, suitable clamping supports (e.g. 499.294) should be used to ensure the profiles are securely clamped.

As the profile shapes are very narrow, the rate of feed when sawing should be reduced compared to the usual tubular steel profiles.

To cut the profile, microspray lubrication is generally recommended. Also note the above information regarding dimensional accuracy.



Einspannunterlagen Flügelprofil
Support profilé d'ouvrant
Support sash profile

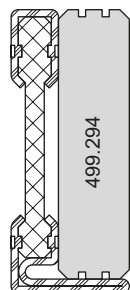


Ausklinkung Riegel auf Stirnseite
Entaille traverse en face avant
Notching of transom on font

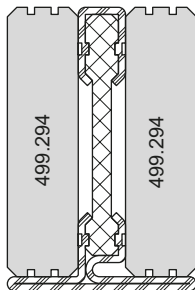
Übersicht Einspannunterlagen

Sommaire des supports

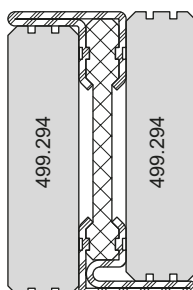
Summary of supports



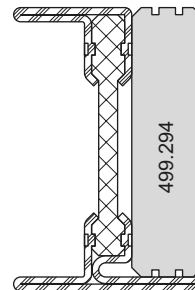
601.611



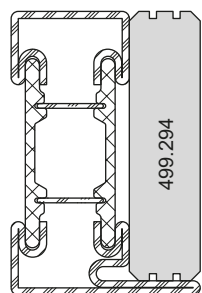
602.611



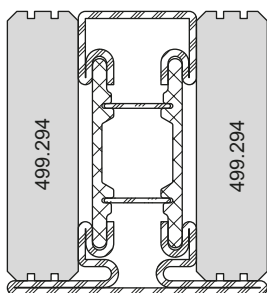
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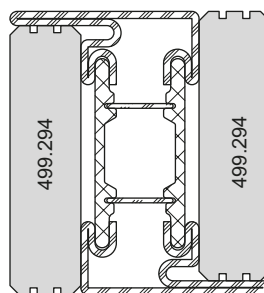
605.611



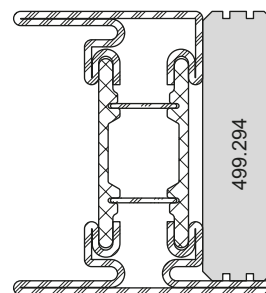
601.615



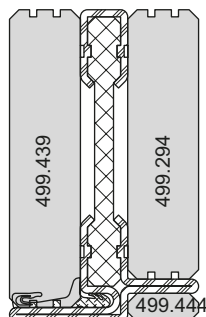
602.615



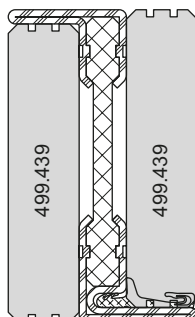
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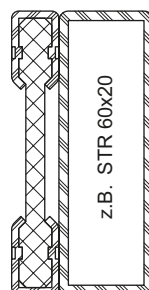
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602.612

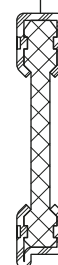


603.612



600.610

Vorsichtig spannen
(Profil zusammendrücken)
Serrer avec précaution
(comprimer le profilé)
Clamp carefully
(press profile together)

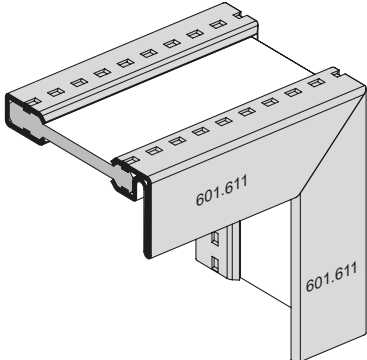
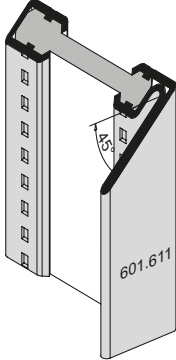
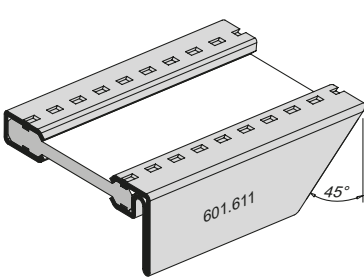
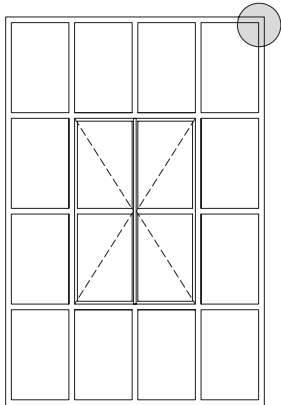


600.609

Ausbildung
Ecke Blendrahmen

Formation
angle cadre dormant

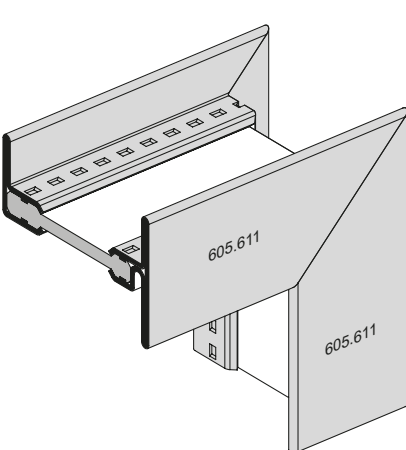
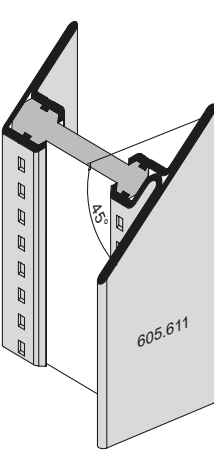
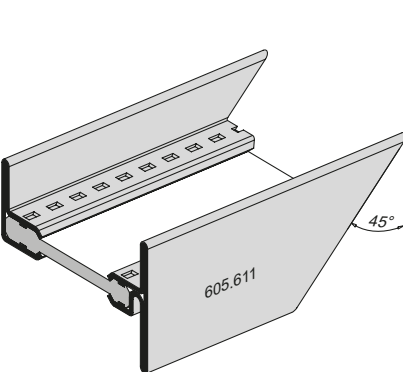
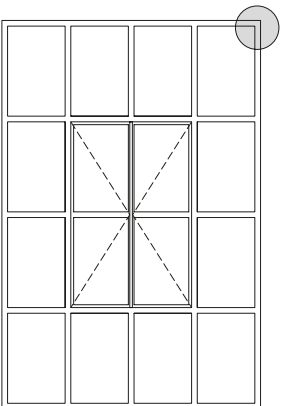
Construction of
outer frame corner



Ausbildung
Ecke Blendrahmen

Formation
angle cadre dormant

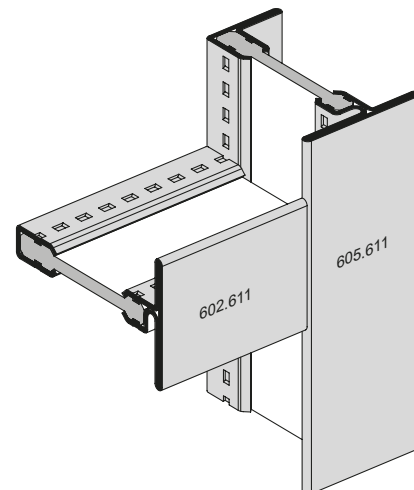
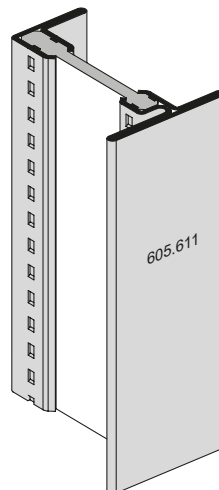
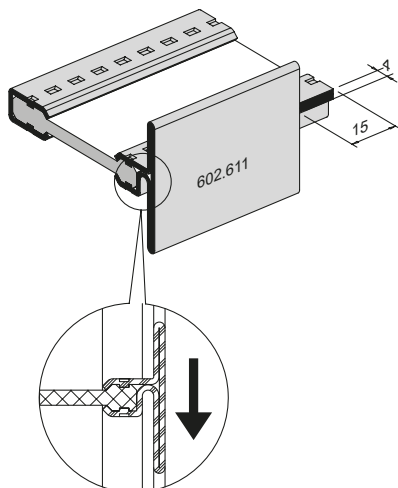
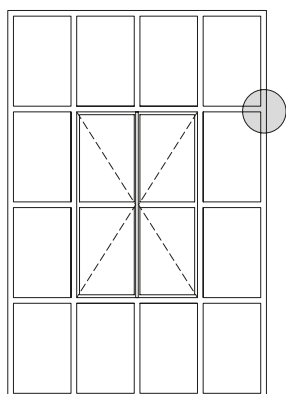
Construction of
outer frame corner



Ausbildung T-Stoss

Formation jointure T

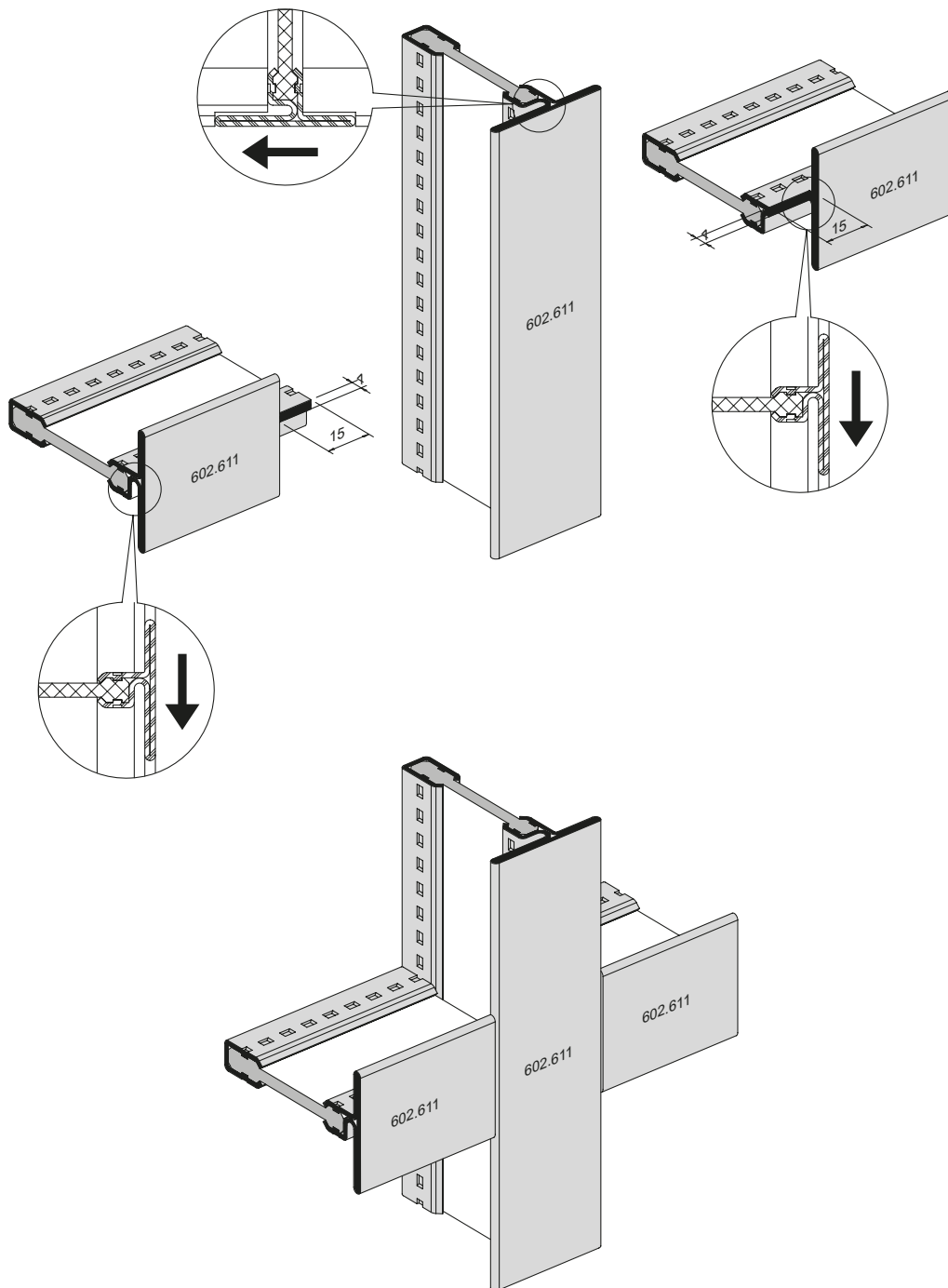
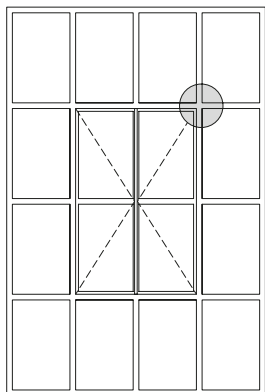
T-joint construction



Ausbildung Kreuzpunkt oben
Festverglasung und Flügel
einwärts öffnend

Formation croisée en haut
vitrage fixe et vantail ouvrant
vers l'intérieur

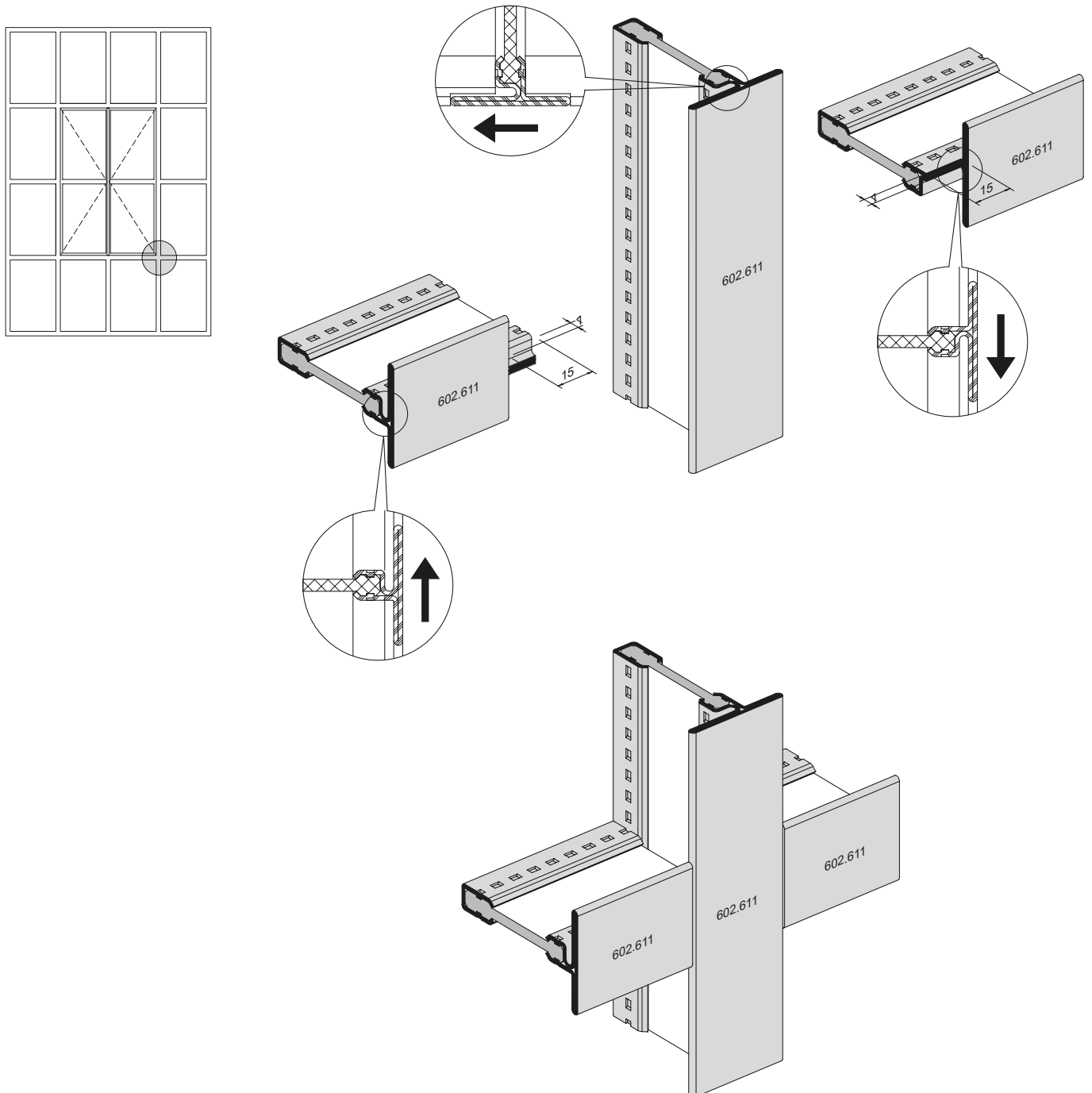
Construction of top intersection
between fixed glazing and
inward-opening sash



Ausbildung Kreuzpunkt unten
Festverglasung und Flügel
einwärts öffnend

Formation croisée en bas
vitrage fixe et vantail ouvrant
vers l'intérieur

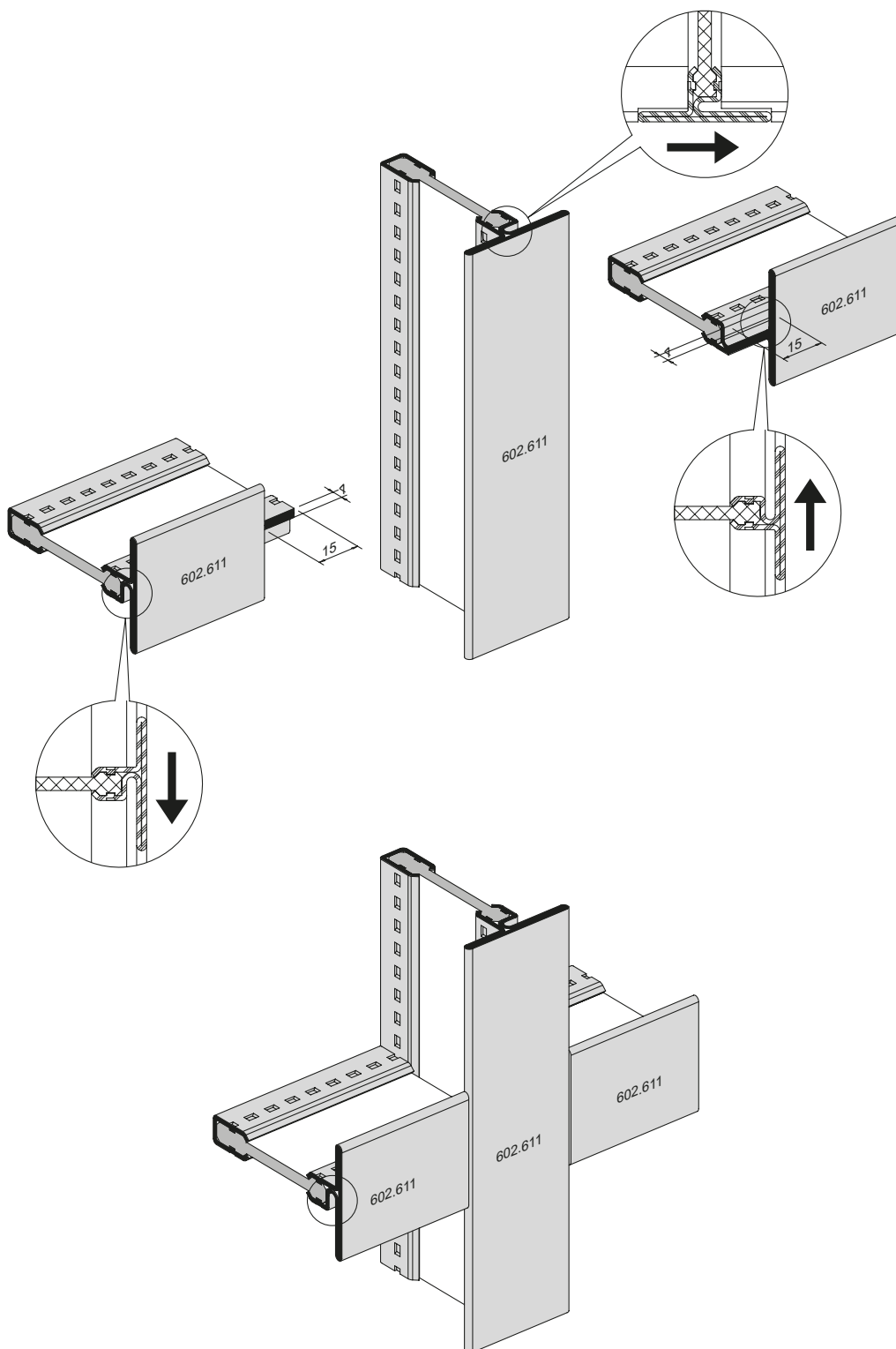
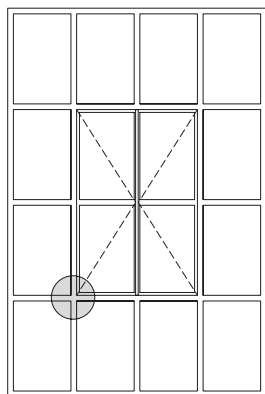
Construction of bottom intersection
between fixed glazing and
inward-opening sash



Ausbildung Kreuzpunkt unten
Festverglasung und Flügel
einwärts öffnend

Formation croisée en bas
vitrage fixe et vantail ouvrant
vers l'intérieur

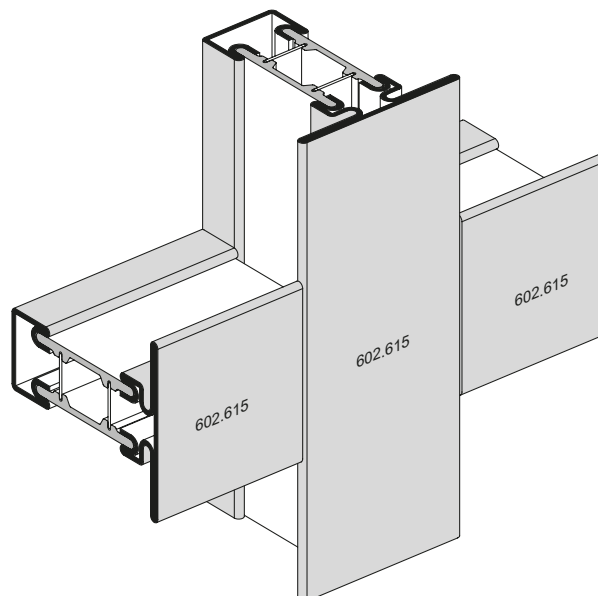
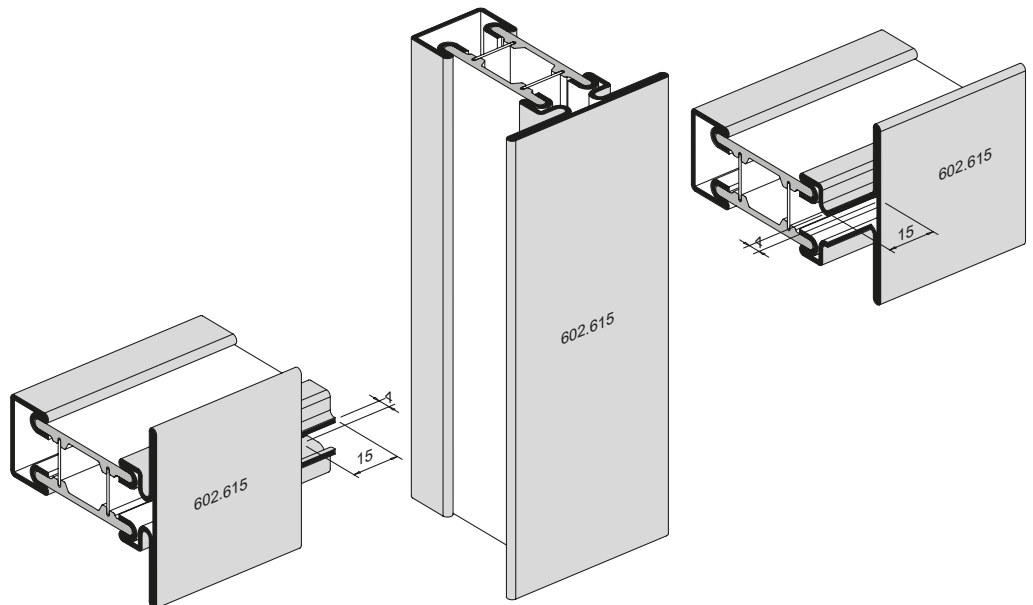
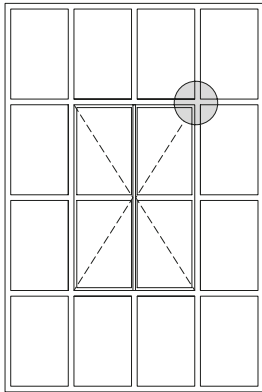
Construction of bottom intersection
between fixed glazing and
inward-opening sash



**Ausbildung Kreuzpunkt
Festverglasung und Flügel
einwärts öffnend**

**Formation croisée
vitrage fixe et vantail ouvrant
vers l'intérieur**

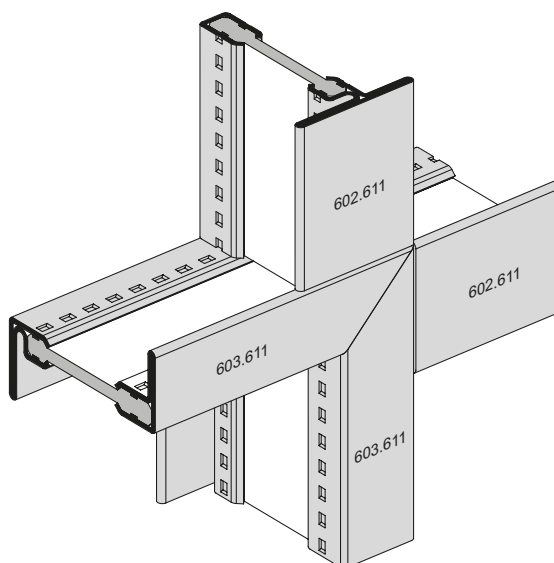
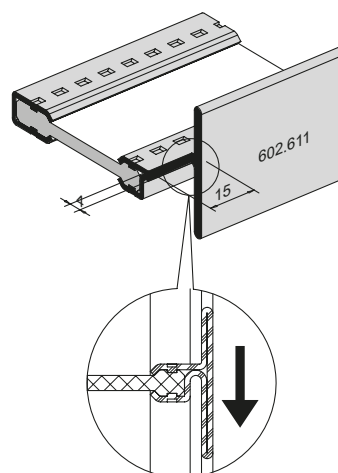
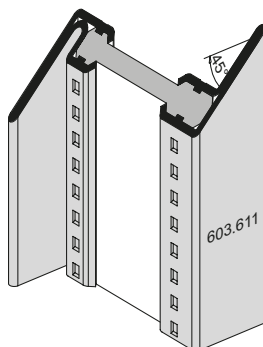
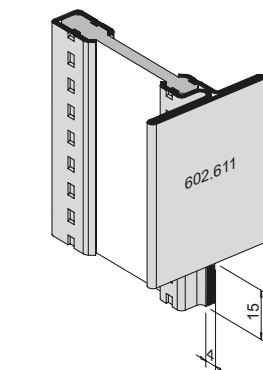
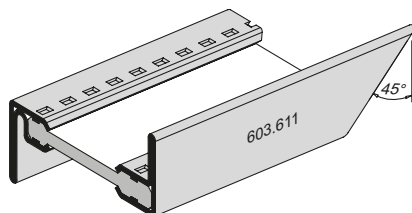
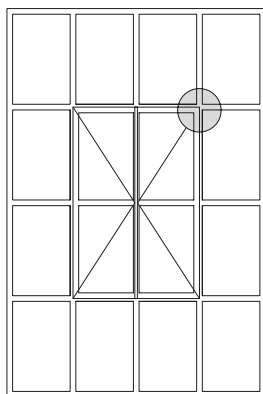
**Construction of intersection
between fixed glazing and
inward-opening sash**



Ausbildung Kreuzpunkt
Blendrahmen für Flügel
auswärts öffnend

Formation croisée
cadre dormant pour vantail
ouvrant vers l'extérieur

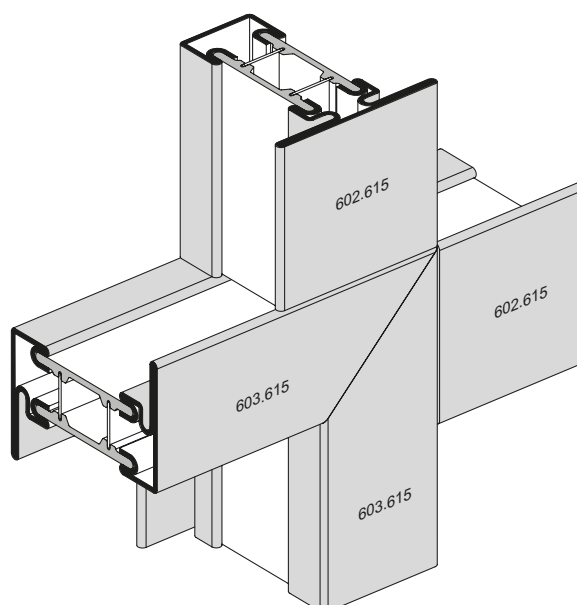
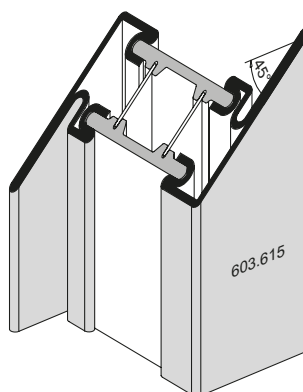
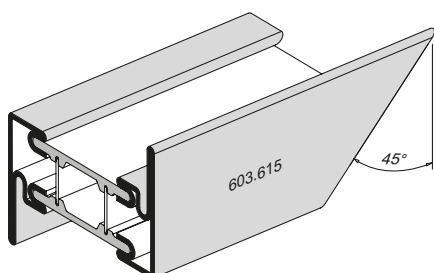
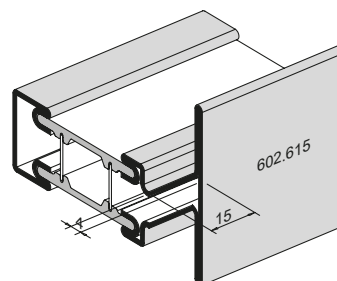
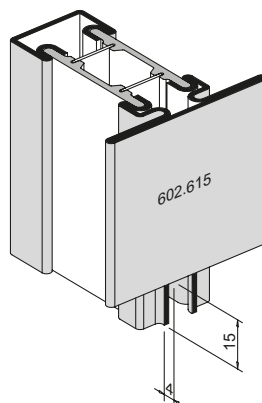
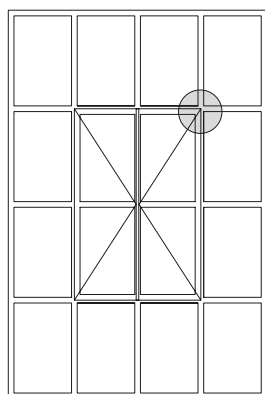
Construction of outer frame
intersection for
outward-opening sash



Ausbildung Kreuzpunkt
Blendrahmen für Flügel
auswärts öffnend

Formation croisée
cadre dormant pour vantail
ouvrant vers l'extérieur

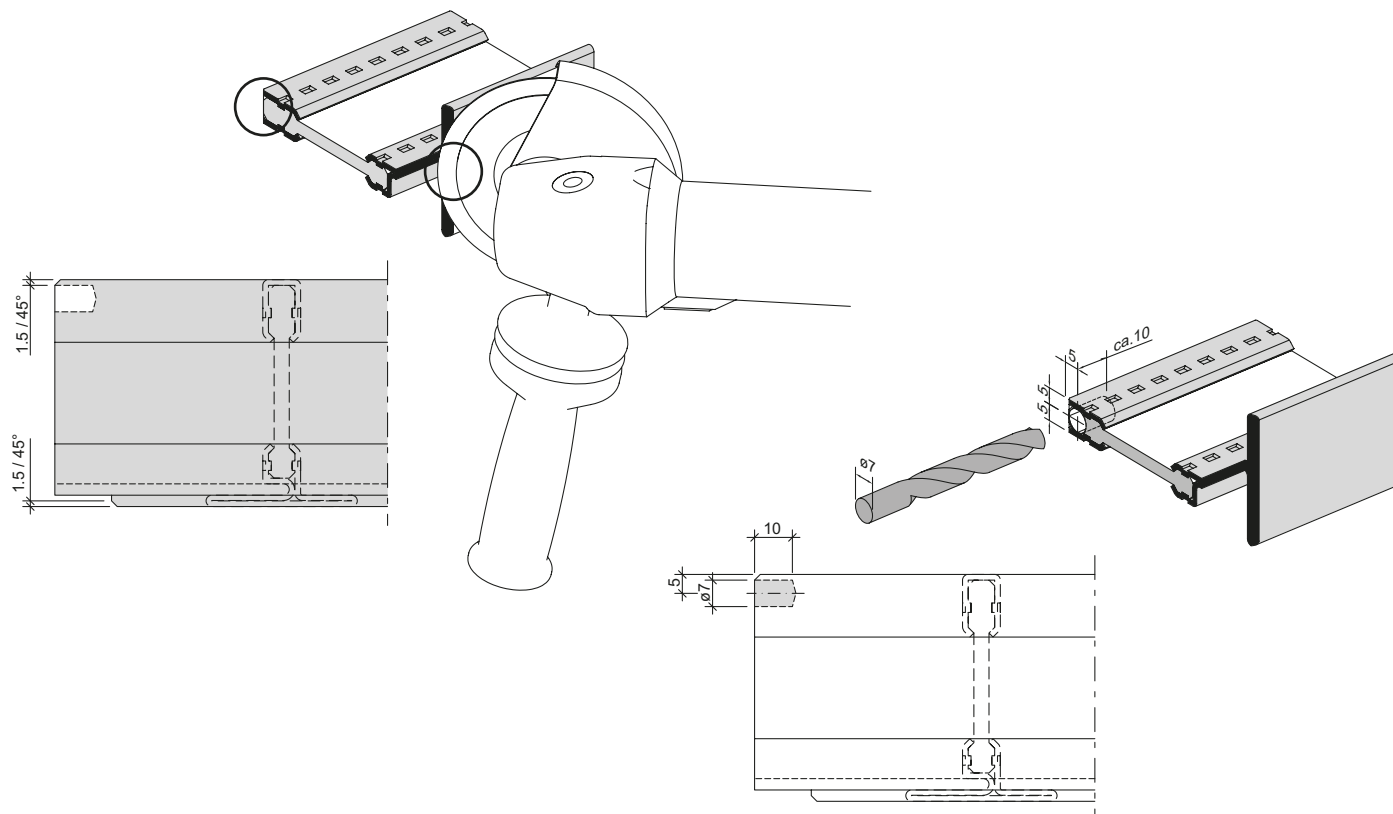
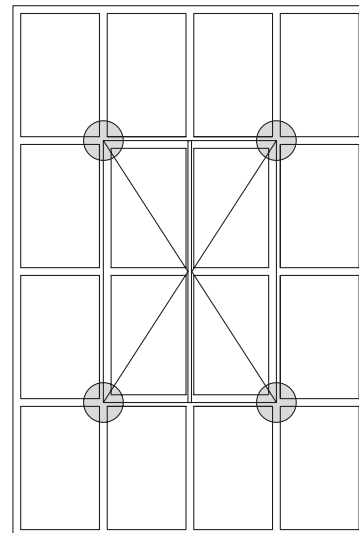
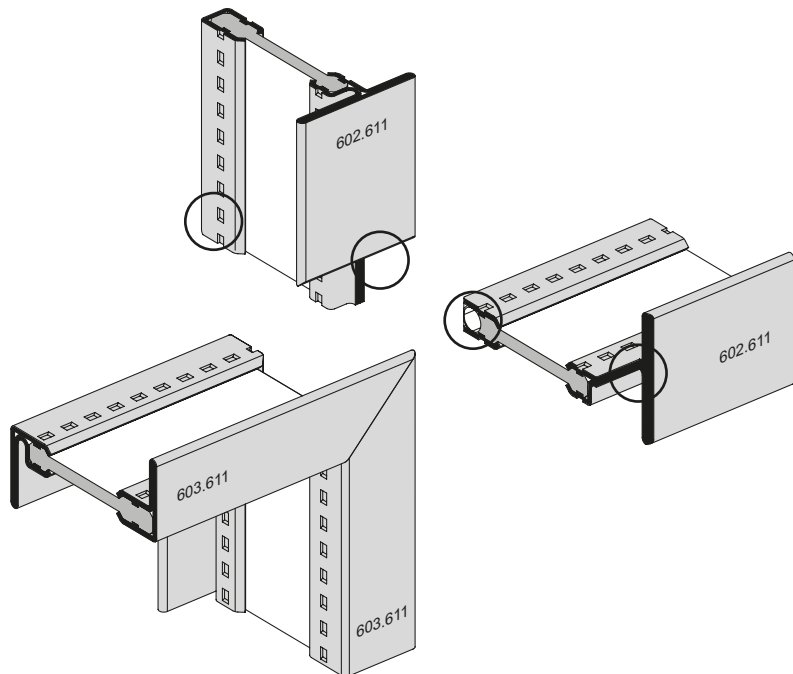
Construction of outer frame
intersection for
outward-opening sash



Vorbereitung bei statisch relevanten
Knotenpunkten

Préparation pour les points de
jonction importants au niveau
statique

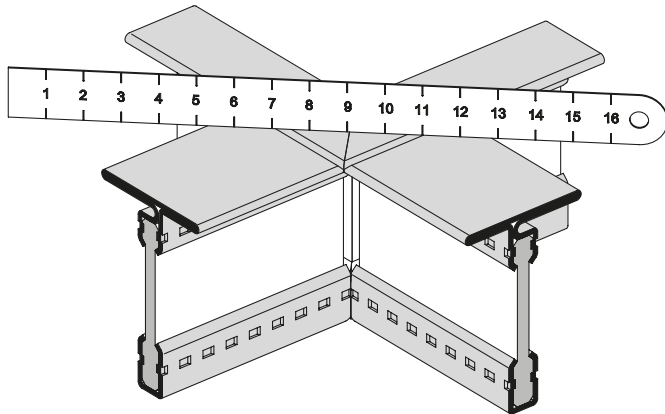
Preparation for structurally relevant
intersection points



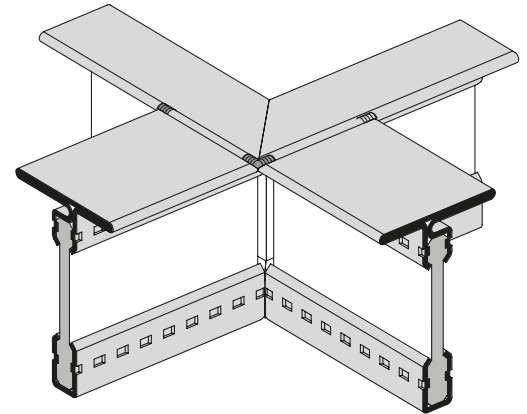
Schweissvorgang Kreuzpunkte

Procédure de soudage points d'intersection

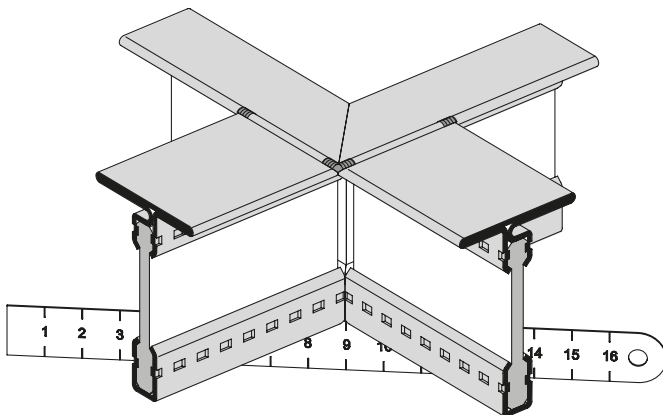
Welding process for intersections



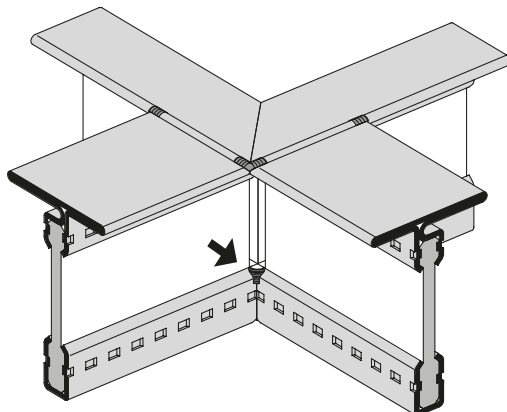
Flächen kontrollieren
Contrôler les surfaces
Check surfaces



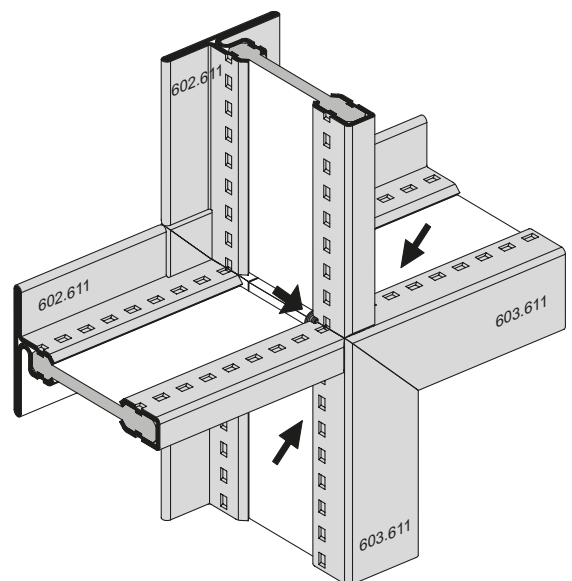
Knotenpunkt heften
Pointer le point de jonction
Crimp intersection point



Gegenseite kontrollieren
Contrôler le côté opposé
Check opposite side



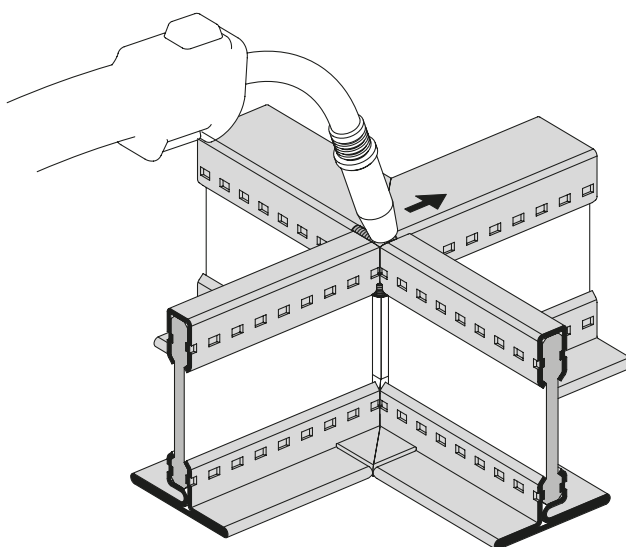
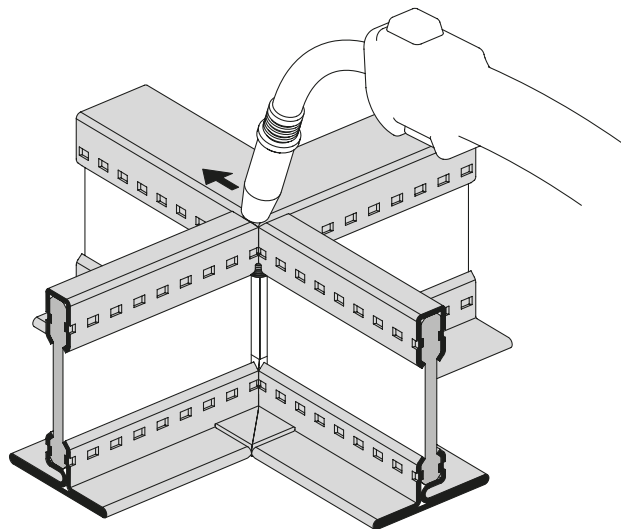
Gegenseite heften
Pointer le côté opposé
Crimp opposite side



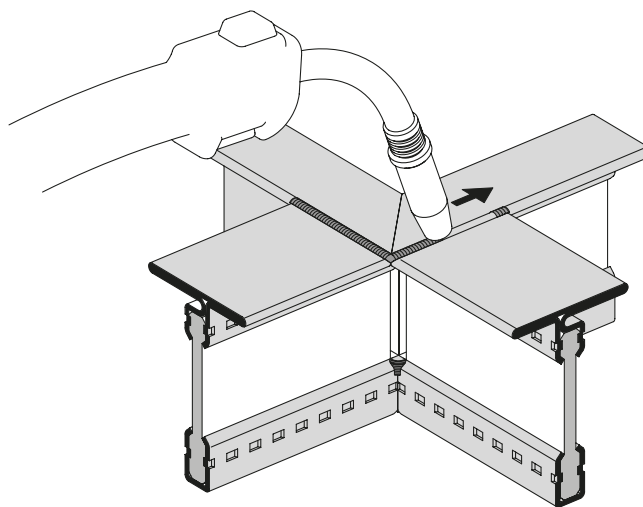
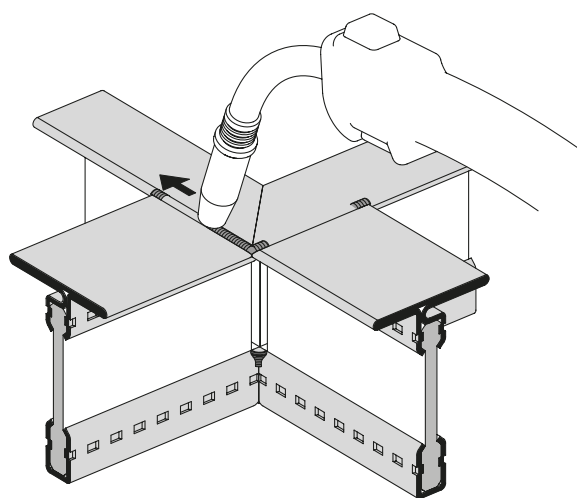
Schweissvorgang Kreuzpunkte

Procédure de soudage points
d'intersection

Welding process for intersections



10 mm in einem Zug durchschweißen
Souder 10 mm d'un trait
Weld through 10 mm in one go

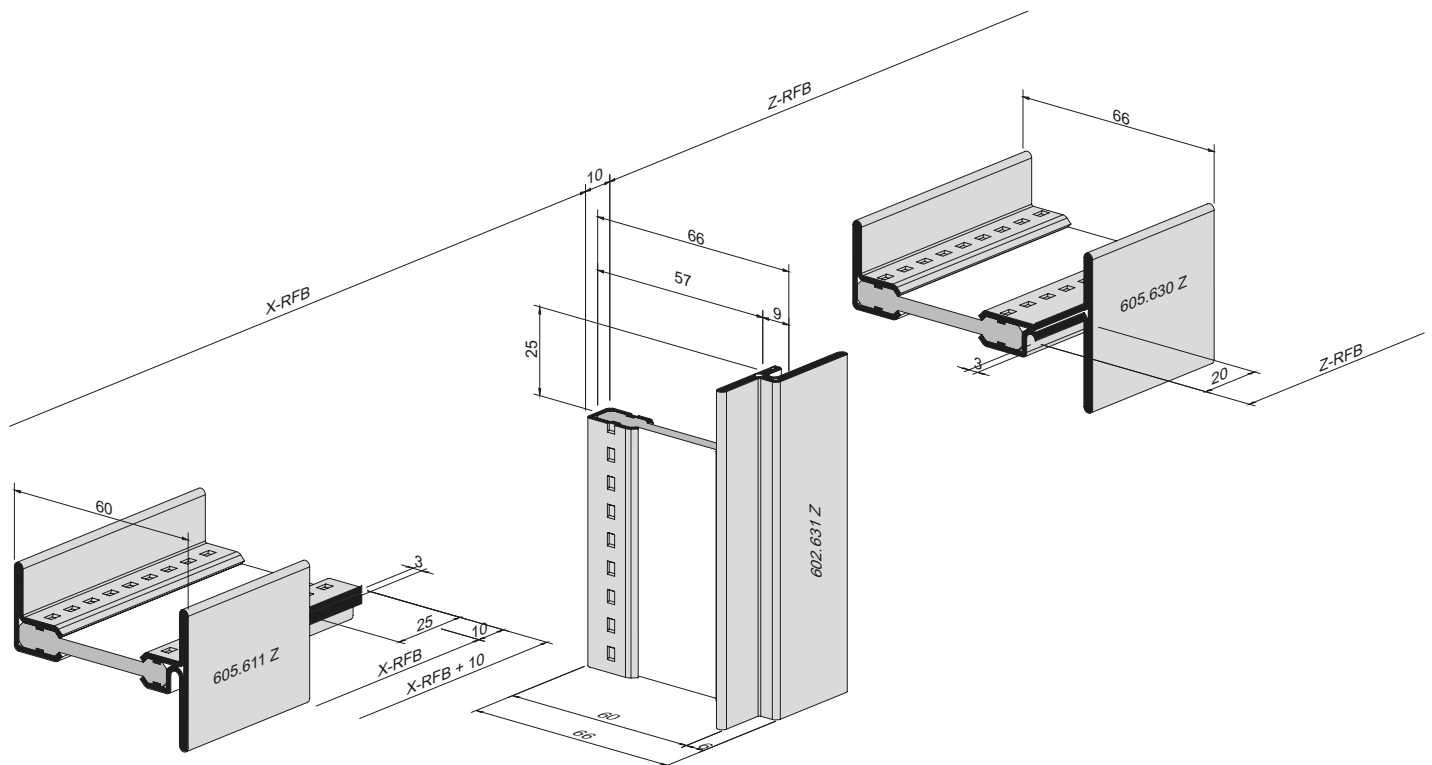
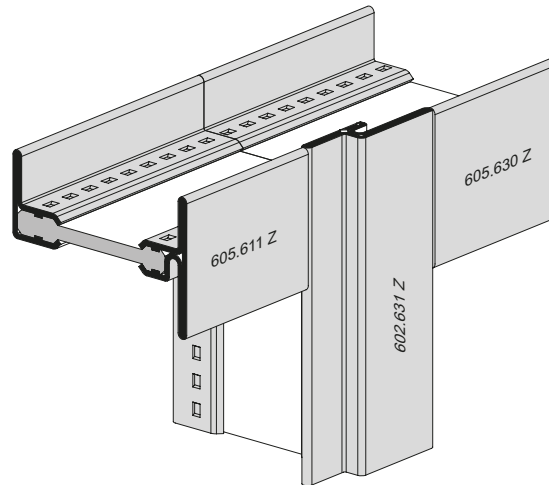
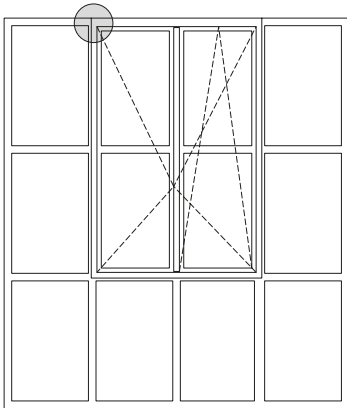


Gegenseite durchschweißen
Souder le côté opposé
Weld through opposite side

Übergang
Janisol Arte 66 zu Janisol Arte 2.0

Transition entre Janisol Arte 66 et
Janisol Arte 2.0

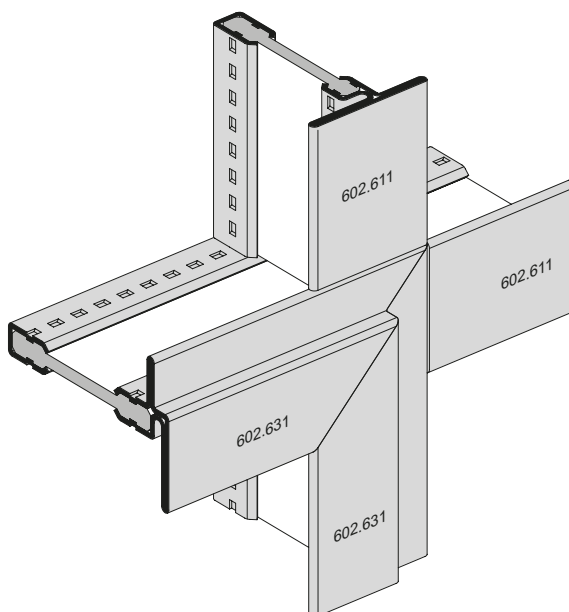
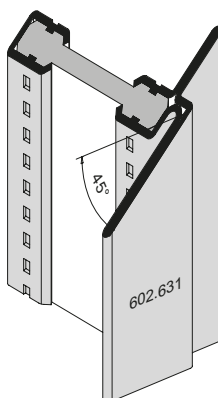
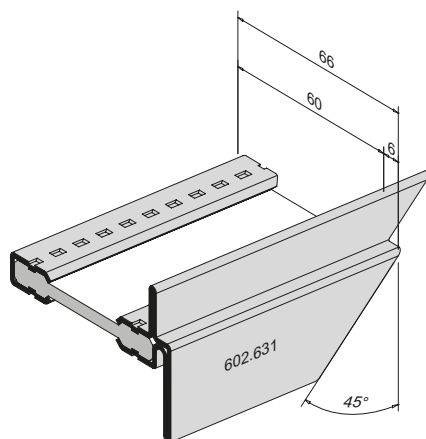
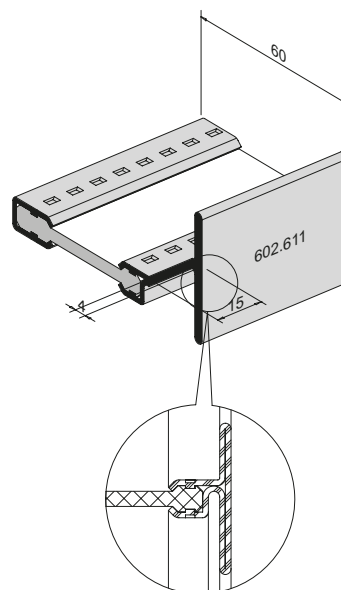
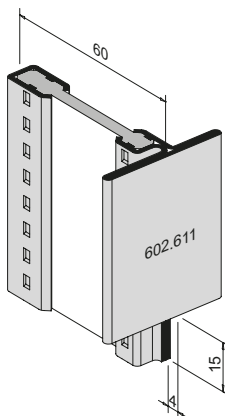
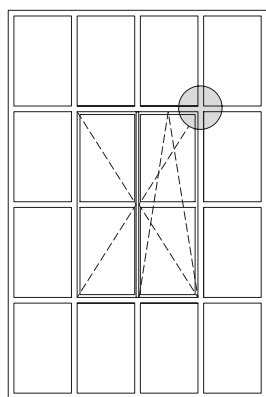
Transition from Janisol Arte 66 to
Janisol Arte 2.0



Übergang
Janisol Arte 66 zu Janisol Arte 2.0

Transition entre Janisol Arte 66 et
Janisol Arte 2.0

Transition from Janisol Arte 66 to
Janisol Arte 2.0

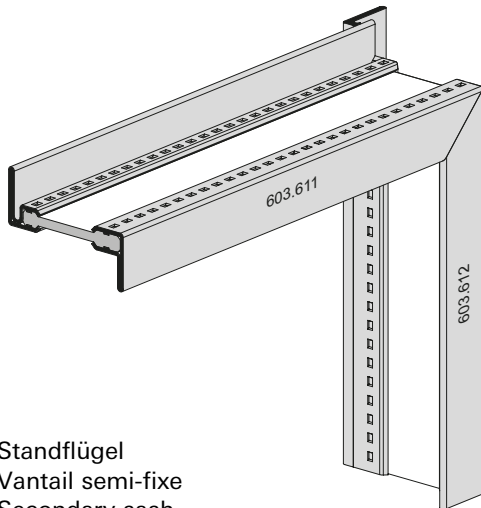


Zuschnitt und Profilbearbeitung
Stulpfenster
einwärts öffnend

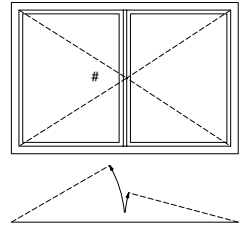
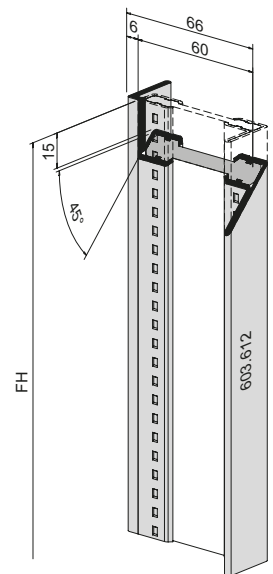
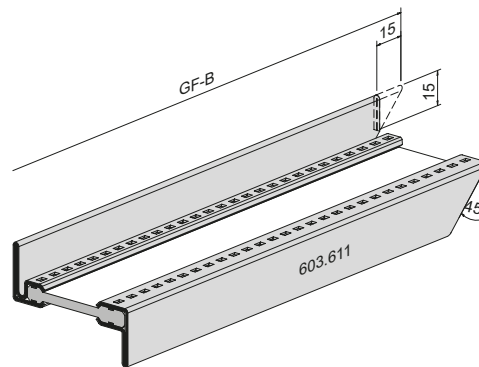
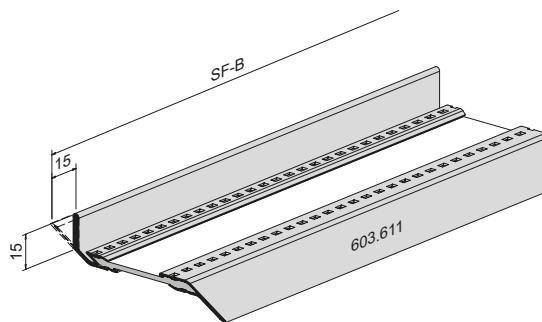
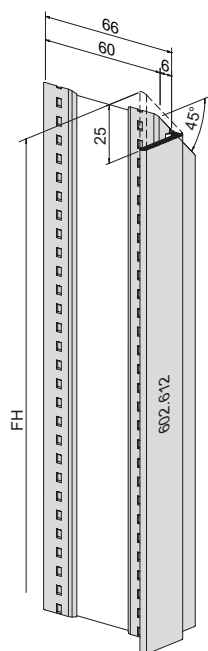
Découpe et usinage profilé
de battement
Fenêtre à deux vantaux
ouvrant vers l'intérieur

Cutting and profile shaping
Double sash windows
inward-opening sash

Gangflügel
Vantail de service
Access sash



Standflügel
Vantail semi-fixe
Secondary sash

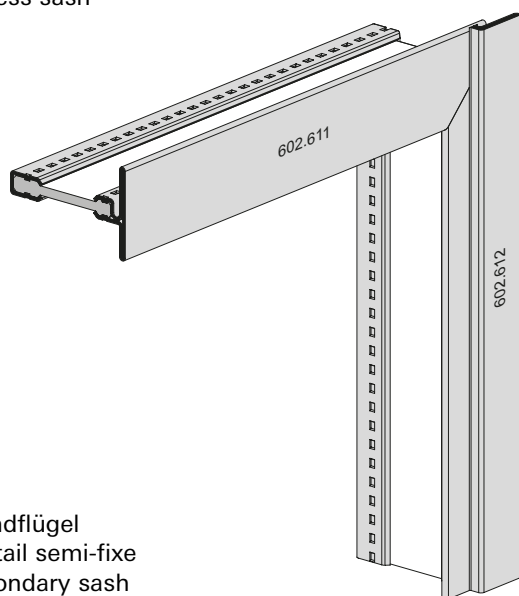


Zuschnitt und Profilbearbeitung
Stulpfenster
auswärts öffnend

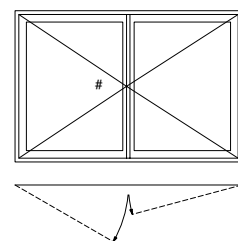
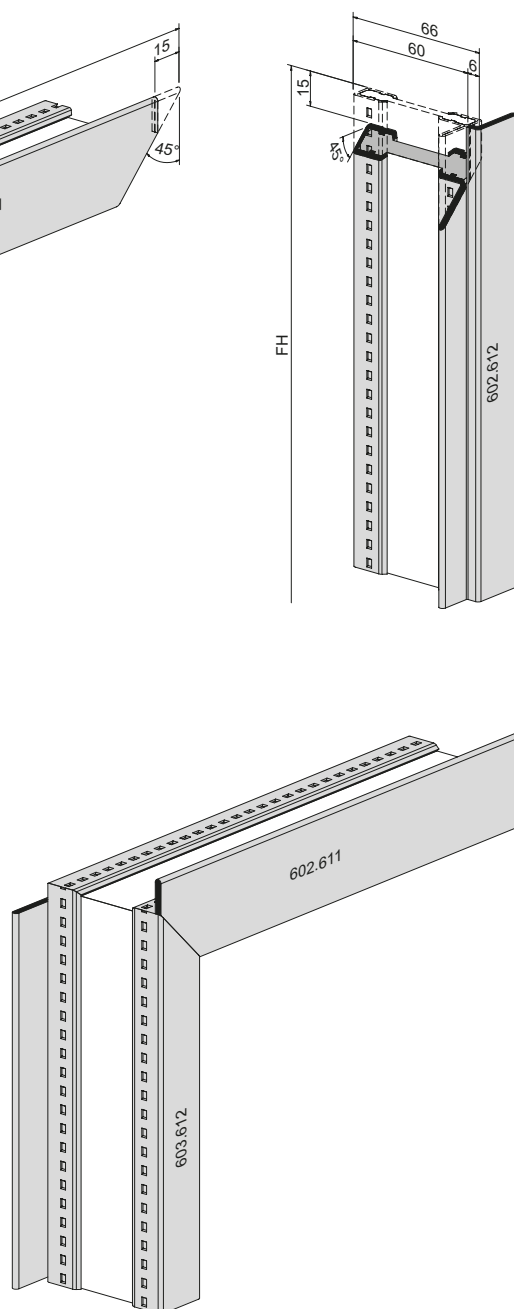
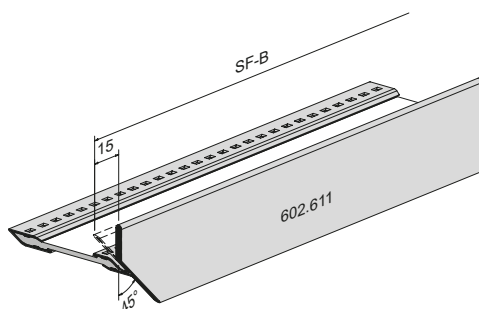
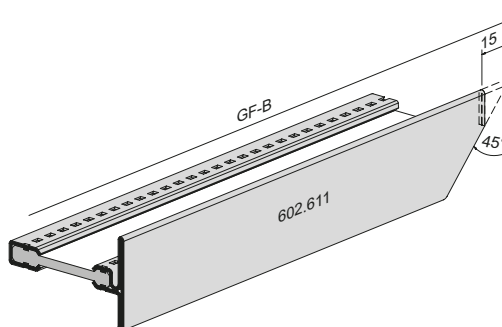
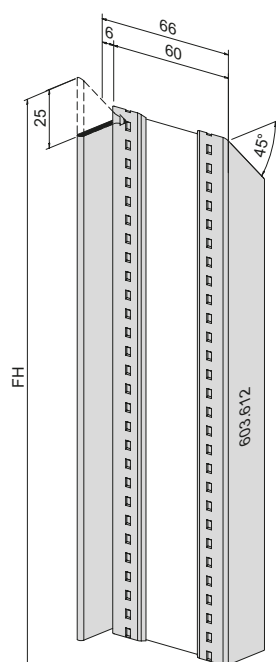
Découpe et usinage profilé
de battement
Fenêtre à deux vantaux
ouvrant vers l'extérieur

Cutting and profile shaping
Double sash windows
outward-opening sash

Gangflügel
Vantail de service
Access sash



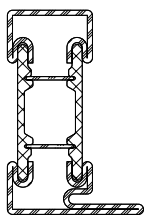
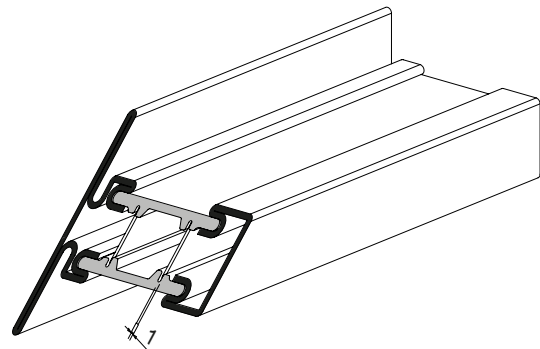
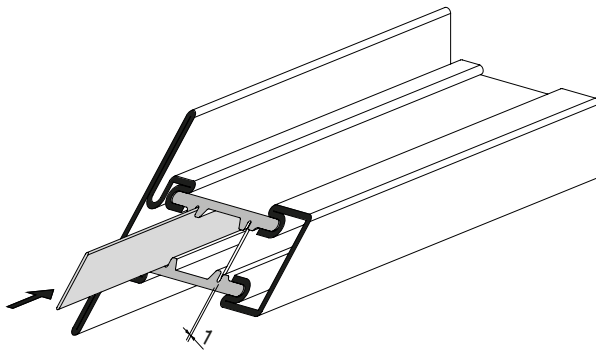
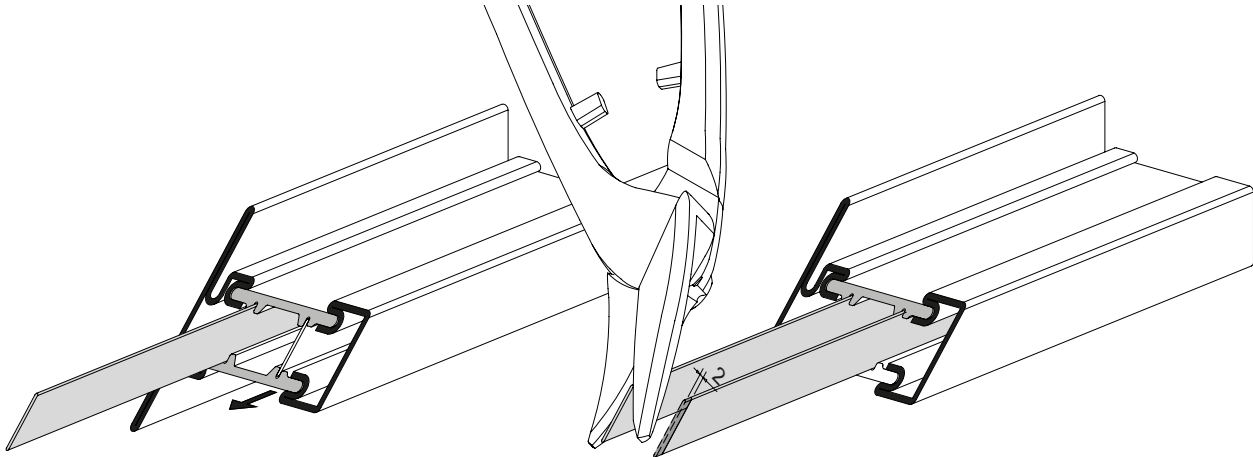
Standflügel
Vantail semi-fixe
Secondary sash



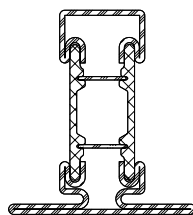
Profile mit Kammermass
25 mm und 50 mm
Aluminiumblenden kürzen
(nur bei Pulverbeschichtung)

Profilés aux dimensions de caisson
de 25 mm et 50 mm
Raccourcir les caches en aluminium
(uniquement pour le revêtement
par poudre)

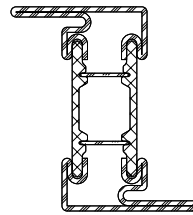
Profiles with chamber sizes
of 25 mm and 50 mm
Shorten aluminium cover plates
(with powder coating only)



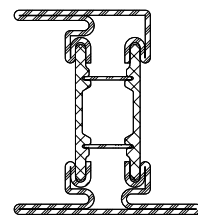
601.615 Z



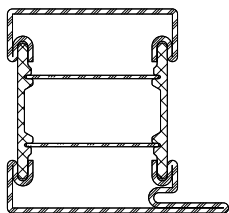
602.615 Z



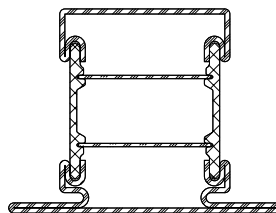
603.615 Z



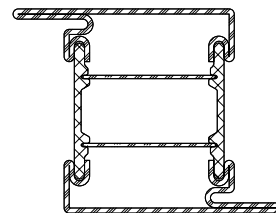
605.615 Z



601.616 Z



602.616 Z

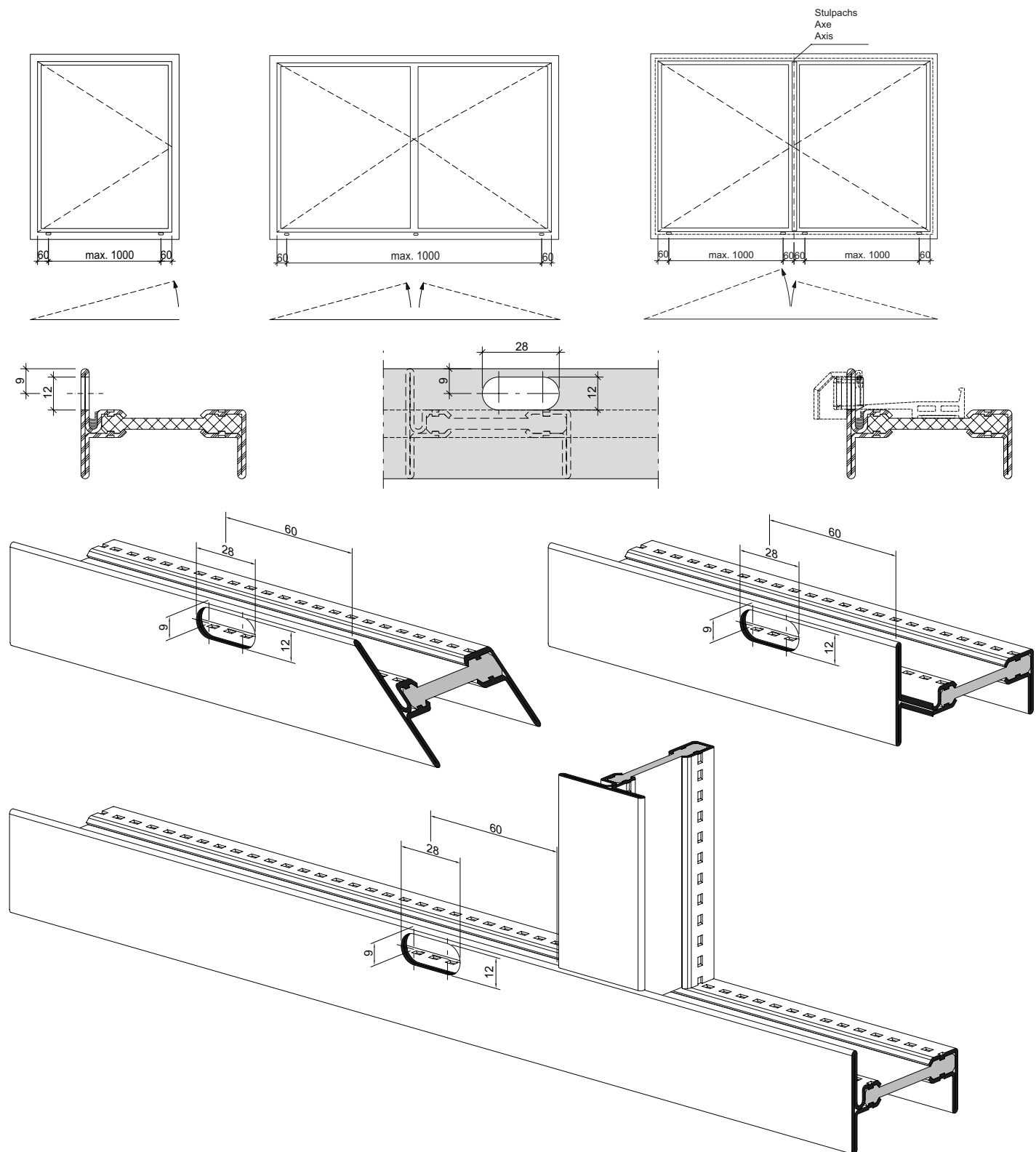


603.616 Z

Anordnung und Einbau
Entwässerungsstüle 450.115
Blendrahmen

Disposition et montage
Douille d'écoulement 450.115
Cadre dormant

Location and installation of
drain pipe 450.115
Outer frame



Einbau mit 499.469

Montage avec 499.469

Installation with 499.469

Entwässerungslöcher bohren (Blendrahmen)

Die Entwässerungslöcher sind am unteren Blendrahmen resp. am unteren Riegelprofil zu bohren. Diese Arbeit erfolgt vorteilhaft am losen Stab. Die Entwässerungslöcher sind mit einem Bohrer $\varnothing$ 12 mm auf einer Ständerbohrmaschine zu bohren. Die Bohrlehre 499.469 ist 10 mm von den Gehrungsschnitten anzulegen und wird zusammen mit dem Profil mit den Spannbacken eingespannt. Bei mehr als 2 Bohrungen pro Blendrahmen oder Riegel ist die Bohrung anzureissen und die Bohrlehre entsprechend zu positionieren. Den Ausschnitt 12x28 mm innen mit einem Winkelschleifer sauber entgraten.

- Randabstand 60 mm
- Mindestens 2 Entwässerungs-Bohrungen pro Flügel
- Abstand zwischen zwei Bohrungen max. 1000 mm
- Stulpfenster immer min. 3 Bohrungen

Perçage des trous de drainage (Cadre dormant)

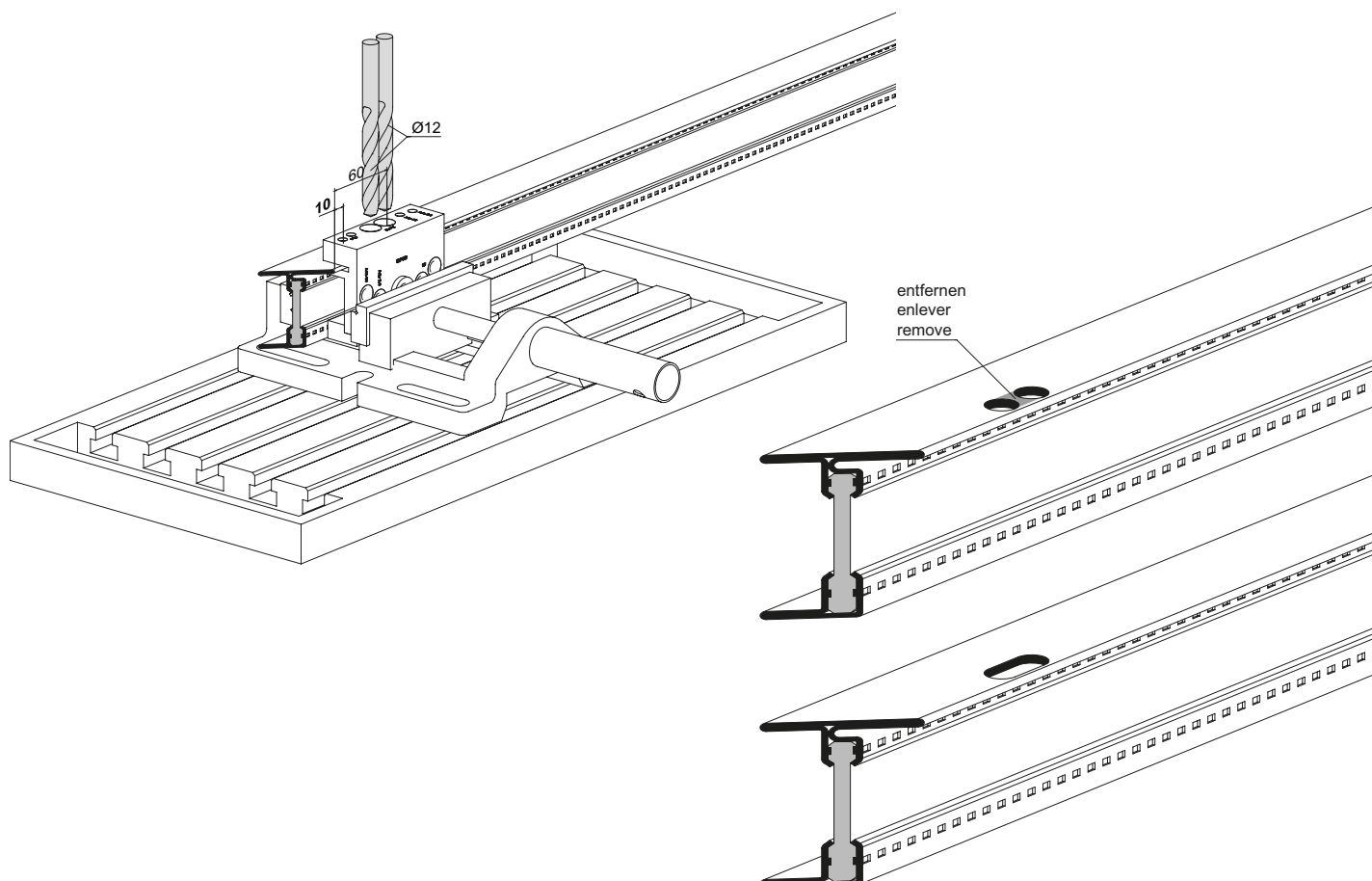
Perçer les trous de drainage dans le profilé de traverse et de dormant inférieur. Il est plus avantageux d'effectuer ce travail sur le morceau du profilé avant le soudage. Les trous d'évacuation sont à perçer avec une perceuse verticale et un foret de $\varnothing$ 12 mm. Le gabarit de perçage 499.469 doit être posé à 10 mm des coupes d'onglet et fixé avec le profilé à l'aide des mâchoires de serrage. Si plus de trous sont à faire marquer l'emplacement correct du trou supplémentaire et positionner le gabarit de façon correspondante. Entaille 12x28 mm à l'intérieur avec une ponceuse d'angle.

- Distance du bord de 60 mm
- Au moins 2 alésages de drainage par vantail
- Distance entre deux alésages max. 1000 mm
- Fenêtre à deux vantaux, toujours au moins 3 alésages

Drilling drainage channels (Outer frame)

The drainage channels have to be drilled in the lower frame rebate or lower transom section. This work is carried most easily on the freed rod. The drainage holes are drilled with a 12 mm drill using an upright drilling machine. Drilling jig 499.469 is to be placed 10 mm from the mitre cuts and is clamped together with the profile with the clamping jaws. If there are more than 2 holes per frame rebate or transom, the hole is to be marked out and the hole jig located accordingly. Completely deburr the cut-out 12x28 mm on the inside using an angle grinder.

- Max. distance from edge 60 mm
- At least 2 drainage holes per sash
- Distance between two drill holes: max. 1000 mm
- Double-sash window: always min. 3 drill holes



Einbau mit 499.469

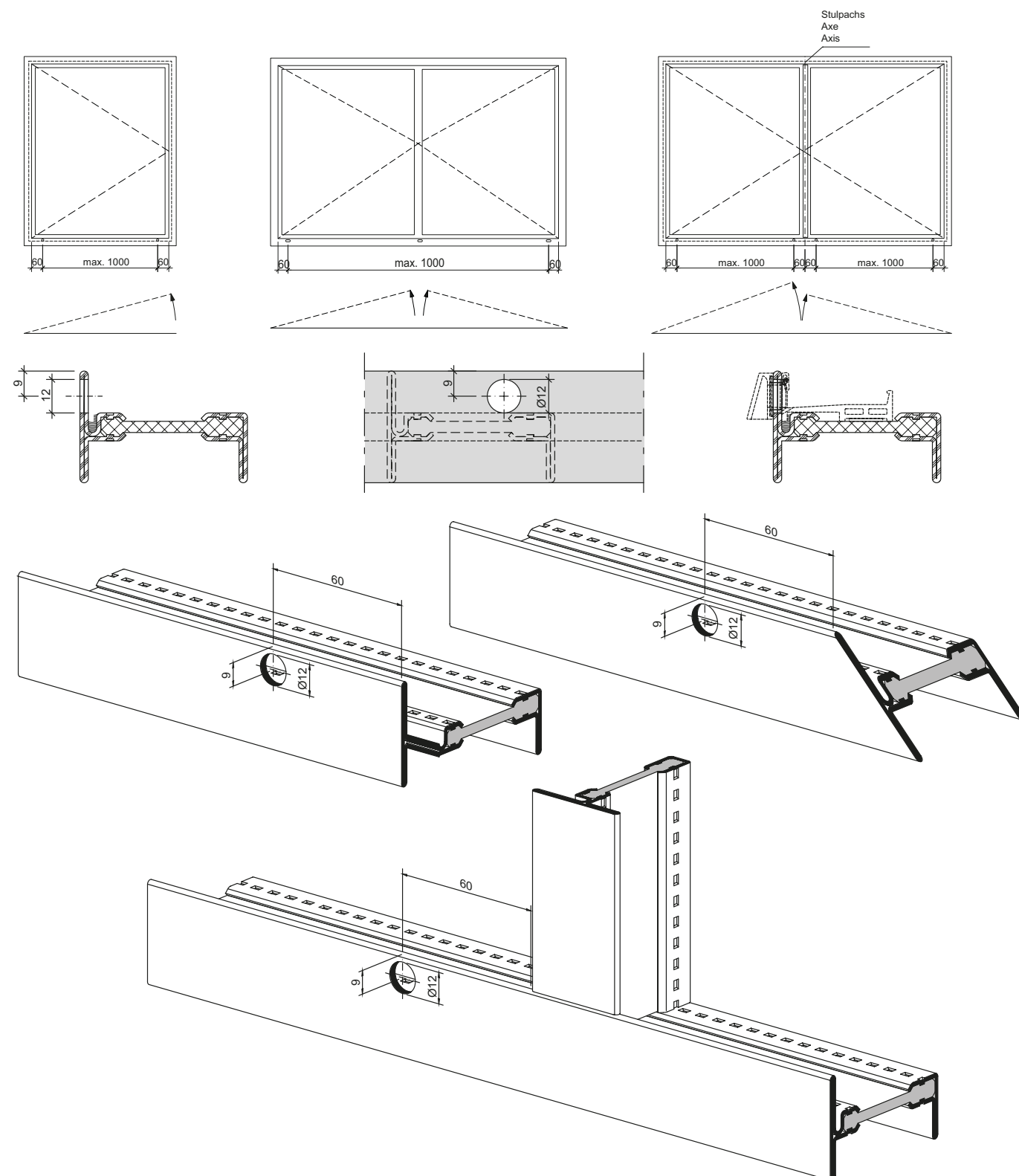
Montage avec 499.469

Installation with 499.469

Anordnung und Einbau
Entwässerungstülle
450.047/450.049
Blendrahmen

Disposition et montage
douille d'écoulement
450.047/450.049
Cadre dormant

Location and installation of
drain pipe 450.047/450.049
Outer frame



Entwässerungslöcher bohren (Blendrahmen)

Die Entwässerungslöcher sind am unteren Blendrahmen resp. am unteren Riegelprofil zu bohren. Diese Arbeit erfolgt vorteilhaft am losen Stab. Die Entwässerungslöcher sind mit einem Bohrer $\varnothing$ 12 mm auf einer Ständerbohrmaschine zu bohren. Die Bohrlehre (499.487) ist 10 mm von den Gehrungsschnitten anzulegen und wird zusammen mit dem Profil mit den Spannbacken eingespannt. Bei mehr als 2 Bohrungen pro Blendrahmen oder Riegel ist die Bohrung anzureissen und die Bohrlehre entsprechend zu positionieren. Die Bohrung $\varnothing$ 12 mm innen mit Winkelschleifer glatt schleifen.

- Randabstand 60 mm
- Mindestens 2 Bohrungen pro Flügel
- Abstand zwischen zwei Bohrungen max. 1000 mm

Perçage des trous de drainage (Cadre dormant)

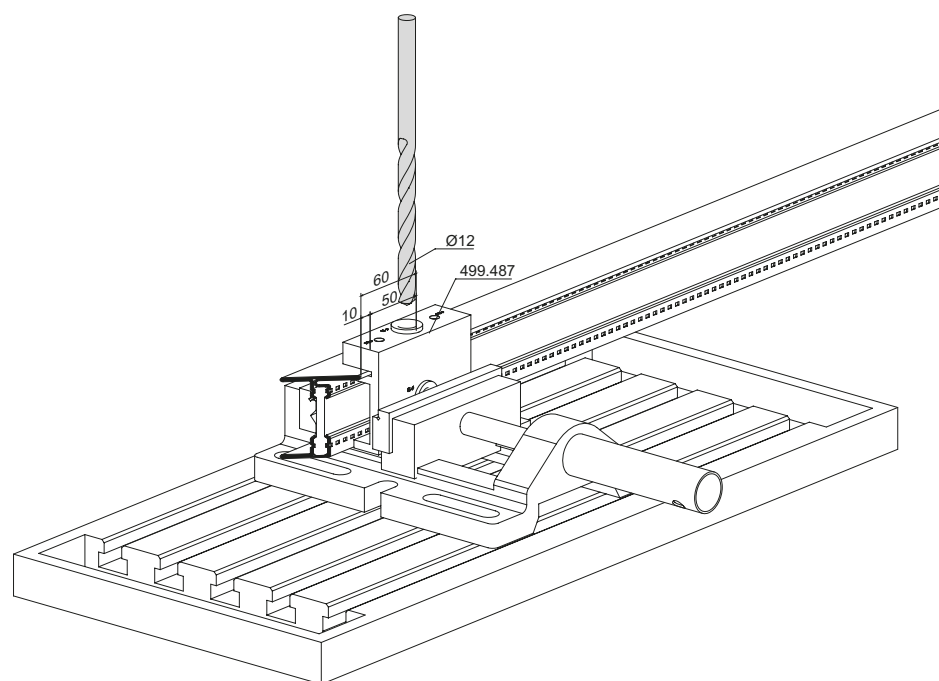
Percer les trous de drainage dans le profilé de traverse et de dormant inférieur. Il est plus avantageux d'effectuer ce travail sur le morceau du profilé avant le soudage. Les trous d'évacuation sont à percer avec une perceuse verticale et un foret de $\varnothing$ 12 mm. Le gabarit de perçage (499.487) doit être posé à 10 mm des coupes d'onglet et fixé avec le profilé à l'aide des mâchoires de serrage. Si plus de trous sont à faire marquer l'emplacement correct du trou supplémentaire et positionner le gabarit de façon correspondante. Poncer l'alésage de $\varnothing$ 12 mm à l'intérieur avec une ponceuse d'angle pour le rendre lisse.

- Distance du bord de 60 mm
- Au minimum 2 trous par vantail
- Max. 1000 mm d'espacement entre deux trous

Drilling drainage channels (Outer frame)

The drainage channels have to be drilled in the lower frame rebate or lower transom section. This work is carried most easily on the freed rod. The drainage holes are drilled with a 12 mm drill using an upright drilling machine. Drilling jig (499.487) is to be placed 10 mm from the mitre cuts and is clamped together with the profile with the clamping jaws. If there are more than 2 holes per frame rebate or transom, the hole is to be marked out and the hole jig located accordingly. Grind the drill hole to $\varnothing$ 12 mm on the inside using an angle grinder until it is smooth.

- Max. distance from edge 60 mm
- At least 2 holes per sash
- Holes max. 1000 mm apart.



Hinweis:

Entwässerungstülle 450.047/049 vor der Oberflächenbehandlung anbringen.

Remarque:

Monter le profilé de drainage 450.047/049 avant le traitement de la surface.

Note:

Insert drainage spout 450.047/049 before applying surface treatment.

Entwässerungstülle einbauen

Die Tülle (450.047/049) wird von aussen her auf das Entwässerungsloch gesteckt. Das Montagewerkzeug (499.318) in die Tülle einführen und diese mit einem Stahlhammer (500 g) in die Bohrung einschlagen.

Sitz der Tülle kontrollieren.

Montage de la douille d'évacuation d'eau

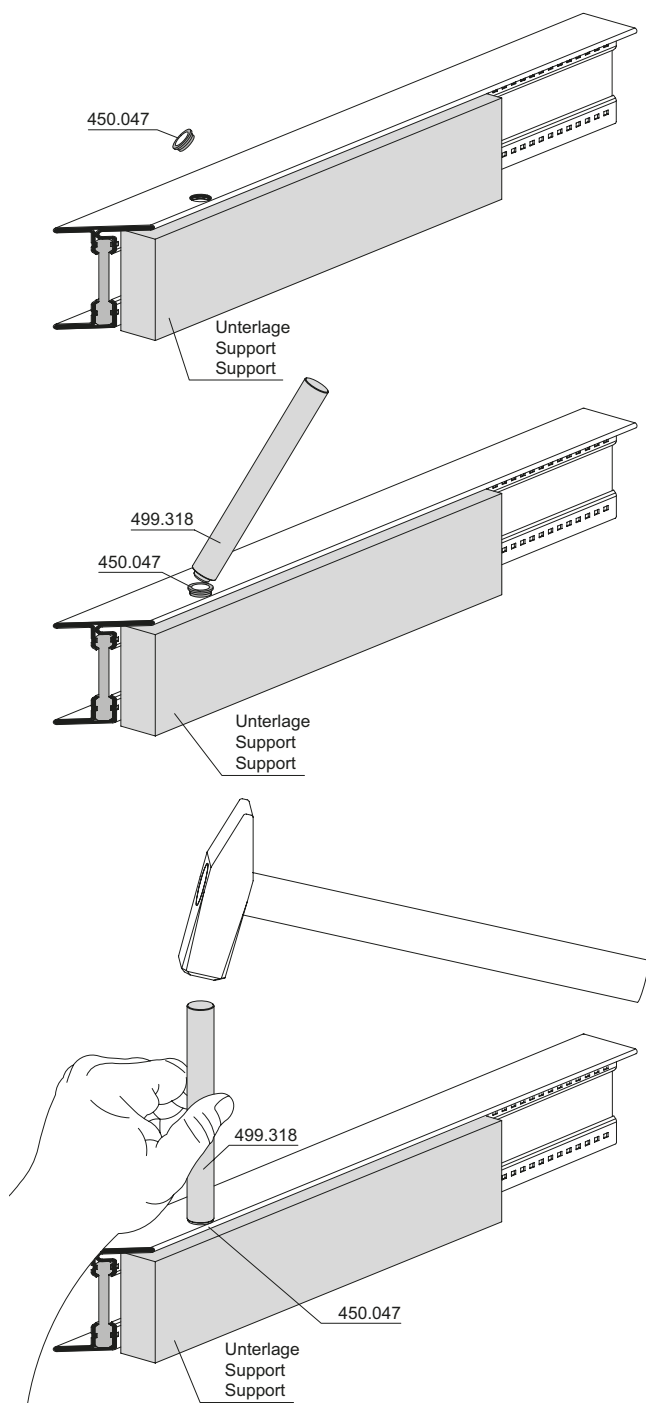
Placer la douille (450.047/049) dans le trou percé. Introduire l'outil de montage (499.318) dans la douille et faire pénétrer celle-ci dans le perçage par frappe avec un marteau en acier (500 g).

Vérifier que la douille est bien positionnée.

Installing drainage pipes

The pipe (450.047/049) is attached to the drainage hole from the outside. Locate the installation tool (499.318) in the pipe and drive it into the hole with a steel hammer (500 g).

Check the seating of the pipe.



Tülle aufstecken
Poser la douille
Attaching the pipe

Einschlagen der Tülle mit Montagewerkzeug 499.318 und Stahlhammer. (Achtung: Unterlagen verwenden)

Frappe de la douille avec outil de montage 499.318 et marteau en acier. (Attention: utiliser un support)

Driving in the pipe with installation tool 499.318 and steel hammer. (N.B. use a support)

Falls Entwässerungstülle nicht hält

Zink-Druckguss-Tülle:

Tülle 450.047 von der Aussenseite her eindrücken. Mit der Schweisszange festhalten und Tülle von innen her mit der Bohrmaschine aufweiten.

Edelstahl-Tülle:

Edelstahl-Tülle 450.049 von innen heften.

Si la douille d'évacuation d'eau ne tient pas

Douille d'évacuation d'eau en fonte de zinc injectée:

Presser la douille 450.047 de l'extérieur vers l'intérieur. Tenir avec la pince de soudage et élargir la douille de l'intérieur avec la foreuse.

Douille en acier Inox:

Pointer la douille en acier Inox 450.049 de l'intérieur.

If the drainhole insert does not hold

Die cast zinc insert:

Push in the insert 450.047 from the outside. Hold firmly in the welding tongs and widen the insert from the inside using the friction from the electric drill.

Stainless steel insert:

Crimp the stainless steel insert 450.049 from the inside.

Schweissen

Janisol Arte-Profile können ohne besondere Vorkehrungen mit den handelsüblichen Schweissverfahren MIG/MAG oder auch WIG/TIG geschweisst werden. Beim Schweissvorgang im Isolatorbereich entsteht eine geringfügige Rauchentwicklung (Hauptbestandteile: CO- resp. CO₂-Gase). Wie beim Schweissen allgemein üblich ist eine Rauchabzugsanlage zu empfehlen und für eine ausreichende Raumbelüftung zu sorgen.

Es sollte auf eine besonders gründliche und saubere Schweissung ohne Porenbildung geachtet werden, da nur wenig Stahl für die Schweissverbindung zur Verfügung steht. Dies ist besonders wichtig bei den Flügeln durch deren Beanspruchung beim Öffnen und Schliessen.

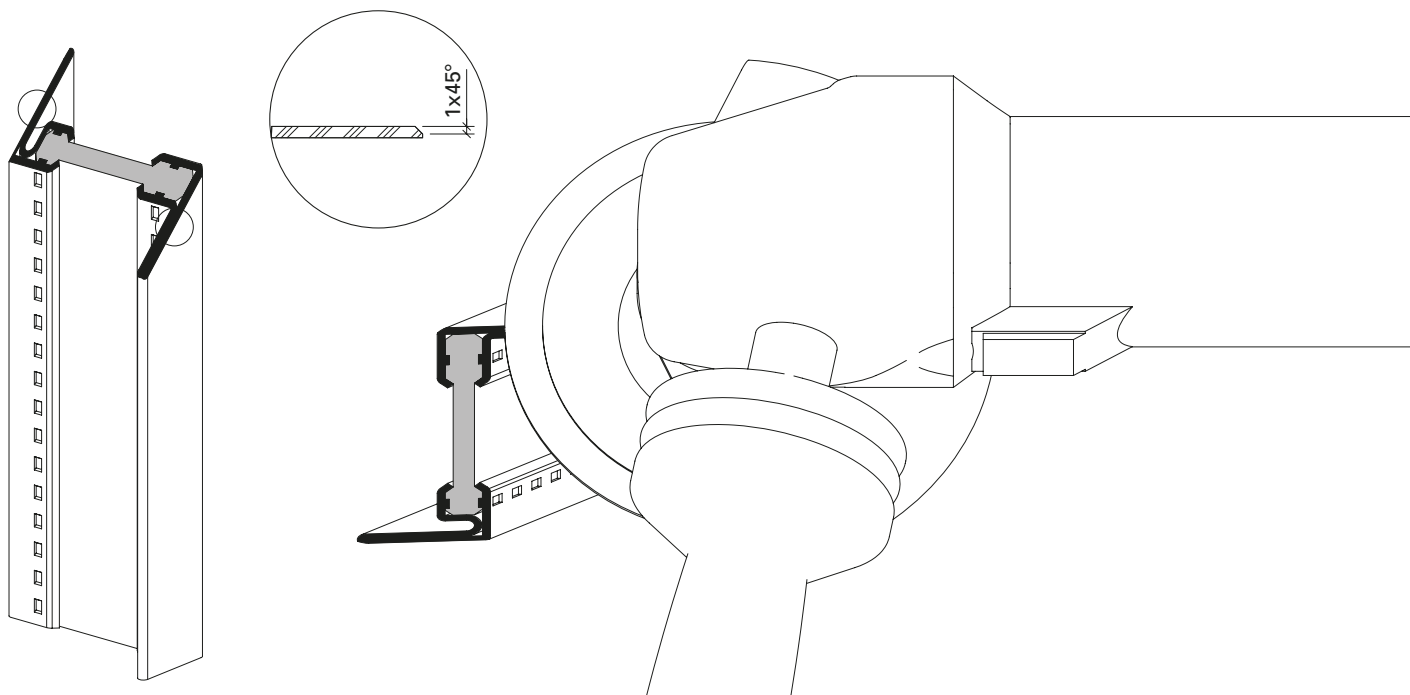
Soudage

Les profilés Janisol Arte peuvent être soudés sans mesures particulières avec les procédés usuels de soudage MIG/MAG ou WIG/TIG. Un léger dégagement de fumée a lieu lors du soudage dans la zone de l'isolateur (composantes principales: gaz CO et CO₂). Comme pour le soudage en général, une installation d'évacuation des fumées est recommandée et une aération suffisante du local doit être assurée.

Il devrait être veillé à ce que le soudage soit opéré avec une minutie et une propreté particulières sans formation de pores car il n'y a que peu d'acier disponible pour la soudure. Cela est particulièrement important pour les vantaux en raison de la sollicitation à laquelle ils sont soumis.

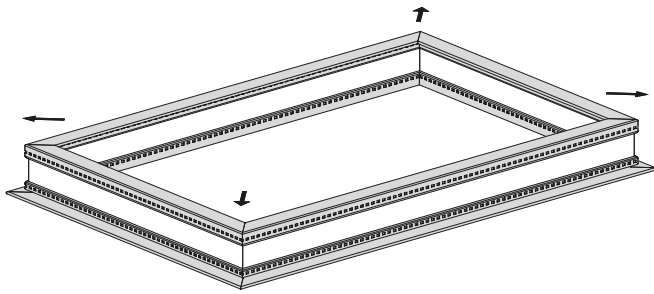
Welding

Janisol Arte profiles can be welded without taking any particular precautions, using the standard MIG/MAG or WIG/TIG welding procedure. Welding in the isolator area results in a small amount of smoke being produced (main components: CO or CO₂ gases). As is normal for welding, it is recommended to use a smoke extraction system and to ensure sufficient ventilation of the room. Ensure the welding is particularly thorough and clean, with no pore formation, as there is only a small amount of steel available for welding joints. This is particularly important for sash due to their load.

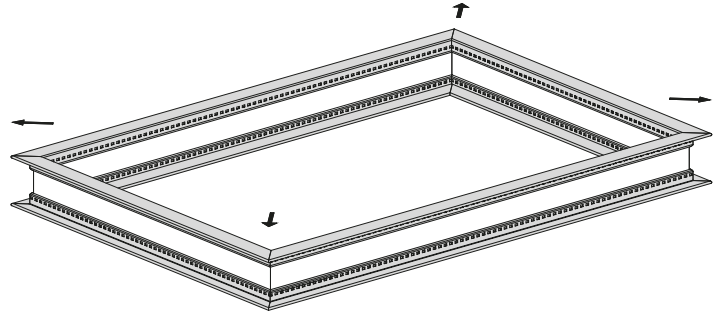


Schweisskante vorbereiten
Préparation de l'arête de soudure
Prepare the welding edge

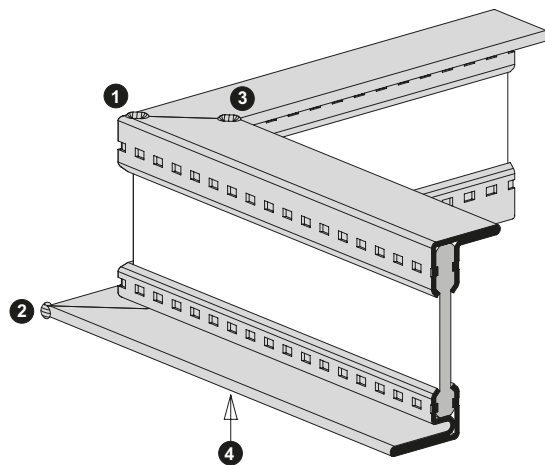
Profile im Schweissnahtbereich mit Winkelschleifer leicht anschrägen
Biseautage léger des profilés dans la zone de la soudure avec une meuleuse d'angle
Slightly chamfer the profiles in the area of the weld seam using an angle grinder



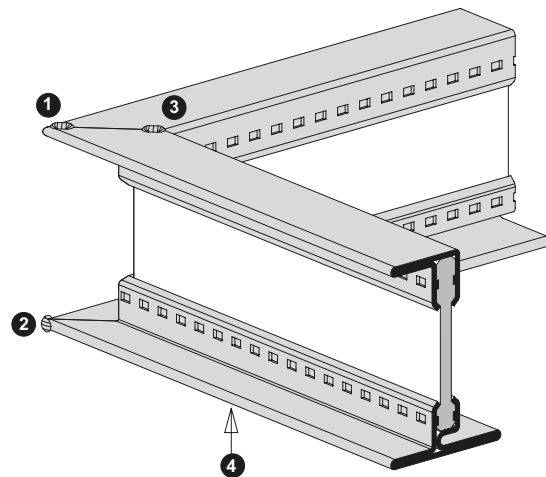
Schweisrichtung, von innen nach aussen (Flügel)
Sens de soudage, de l'intérieur vers l'extérieur (vantail)
Welding direction from the inside towards (sash)



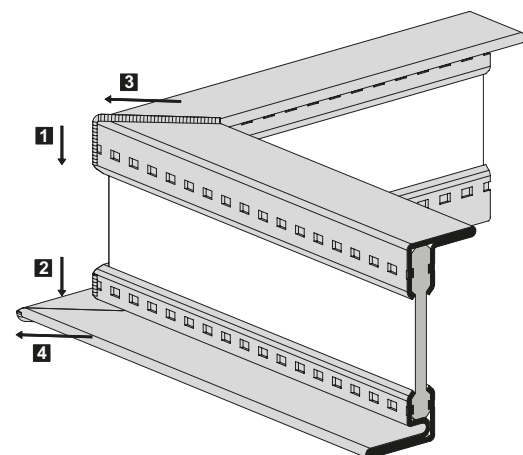
Schweisrichtung, von innen nach aussen (Rahmen)
Sens de soudage, de l'intérieur vers l'extérieur (cadre)
Welding direction from the inside towards (frame)



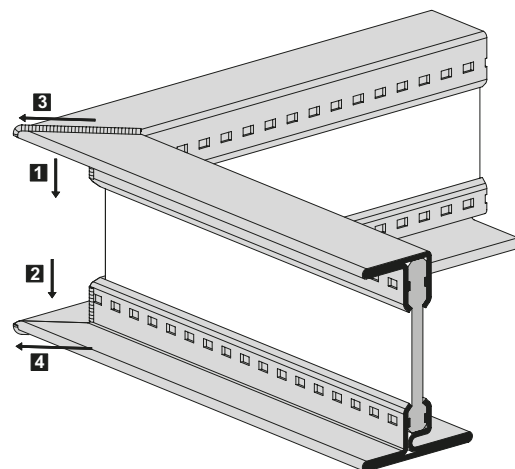
Reihenfolge Haftscheidpunkte (Flügel)
Séquence pour le pointage (vantail)
Sequence of tack welds (sash)



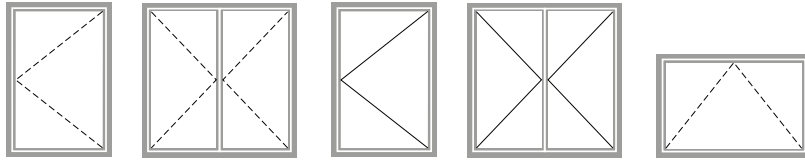
Reihenfolge Haftscheidpunkte (Rahmen)
Séquence pour le pointage (cadre)
Sequence of tack welds (frame)



Reihenfolge Schweißen (Flügel)
Séquence pour le soudage (vantail)
Welding sequence (sash)



Reihenfolge Schweißen (Rahmen)
Séquence pour le soudage (cadre)
Welding sequence (frame)



Bänder

Paumelles

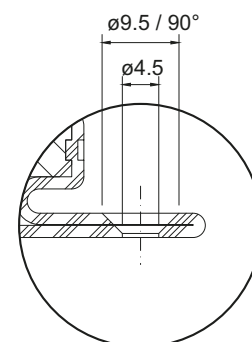
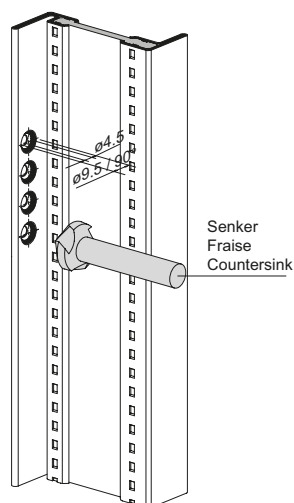
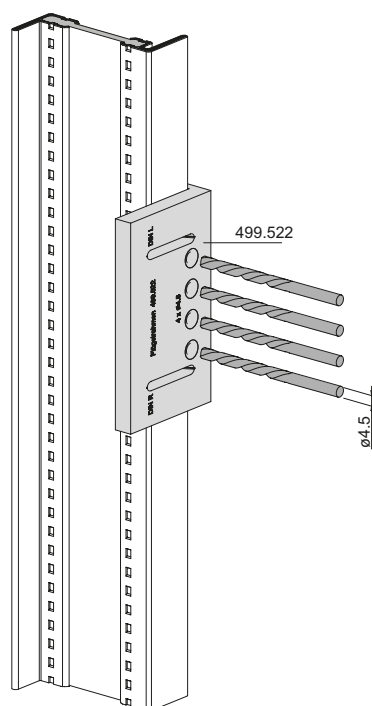
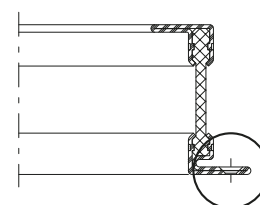
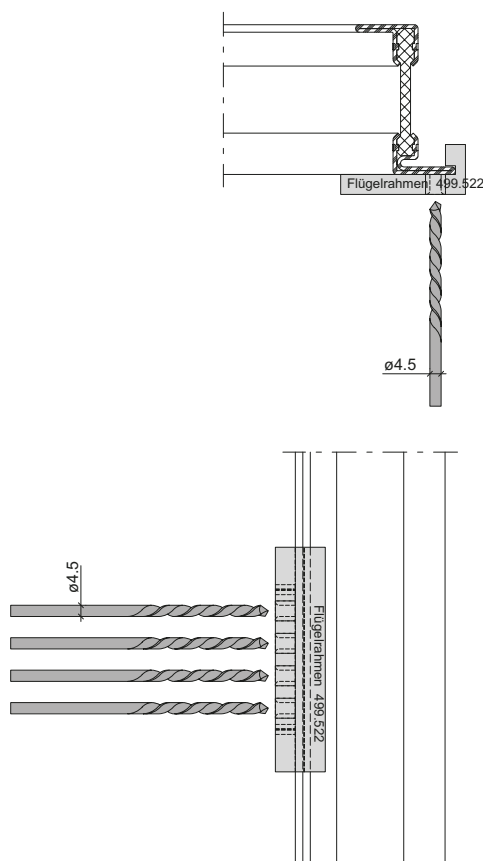
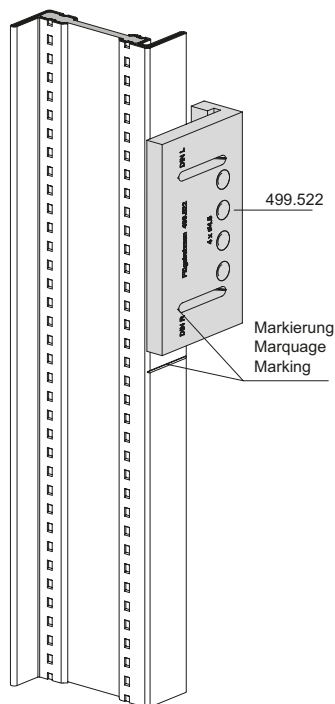
Hinges

Bohrbild 3D Anschraubbänder 557.182/557.183/557.320/557.321	Schéma de perçage paumelles à visser 3D 557.182/557.183/557.320/557.321	Drilling pattern 3D screw-on hinges 557.182/557.183/557.320/557.321	35
Bohrlehre 499.522 für 3D Anschraubbänder 557.182/557.183/557.320/557.321	Gabarit de perçage 499.522 pour paumelles à visser 3D 557.182/557.183/557.320/557.321	Drilling jig 499.522 for 3D screw-on hinges 557.182/557.183/557.320/557.321	36
Bohrlehre 499.539 für 3D Anschraubbänder 557.182/557.183/557.320/557.321	Gabarit de perçage 499.539 pour paumelles à visser 3D 557.182/557.183/557.320/557.321	Drilling jig 499.539 for 3D screw-on hinges 557.182/557.183/557.320/557.321	38
Zuschnitt Anschlagdichtung 455.046	Découpe pour joint de butée 455.046	Cutting rebate weatherstrip 455.046	40
Anschraubband 555.484	Paumelle à visser 555.484	Screw-on hinge 555.484	41
Zuschnitt Anschlagdichtung 455.046	Découpe pour joint de butée 455.046	Cutting rebate weatherstrip 455.046	43
Einbau Anschweisband 555.483 mit Anschweislehre 499.359	Montage paumelle à souder 555.483 avec gabarit de soudage 499.359	Installation weld-on hinge 555.483 with welding fixture 499.359	44
Einbau Anschweisband 557.265	Montage paumelle à souder 557.265	Installation weld-on hinge 557.265	45
Einbau Zwangsverriegelung 557.319	Montage verrouillage forcé 557.319	Installation security locking system 557.319	46
Einbau Falzsnäpper 599.401	Montage loqueteau de feuillure 599.401	Installation spring loaded catch 599.401	48

**Bohrlehre 499.522 für
 3D Anschraubbänder
 557.182/557.183
 557.320/557.321**

**Gabarit de perçage 499.522 pour
 paumelles à visser 3D
 557.182/557.183
 557.320/557.321**

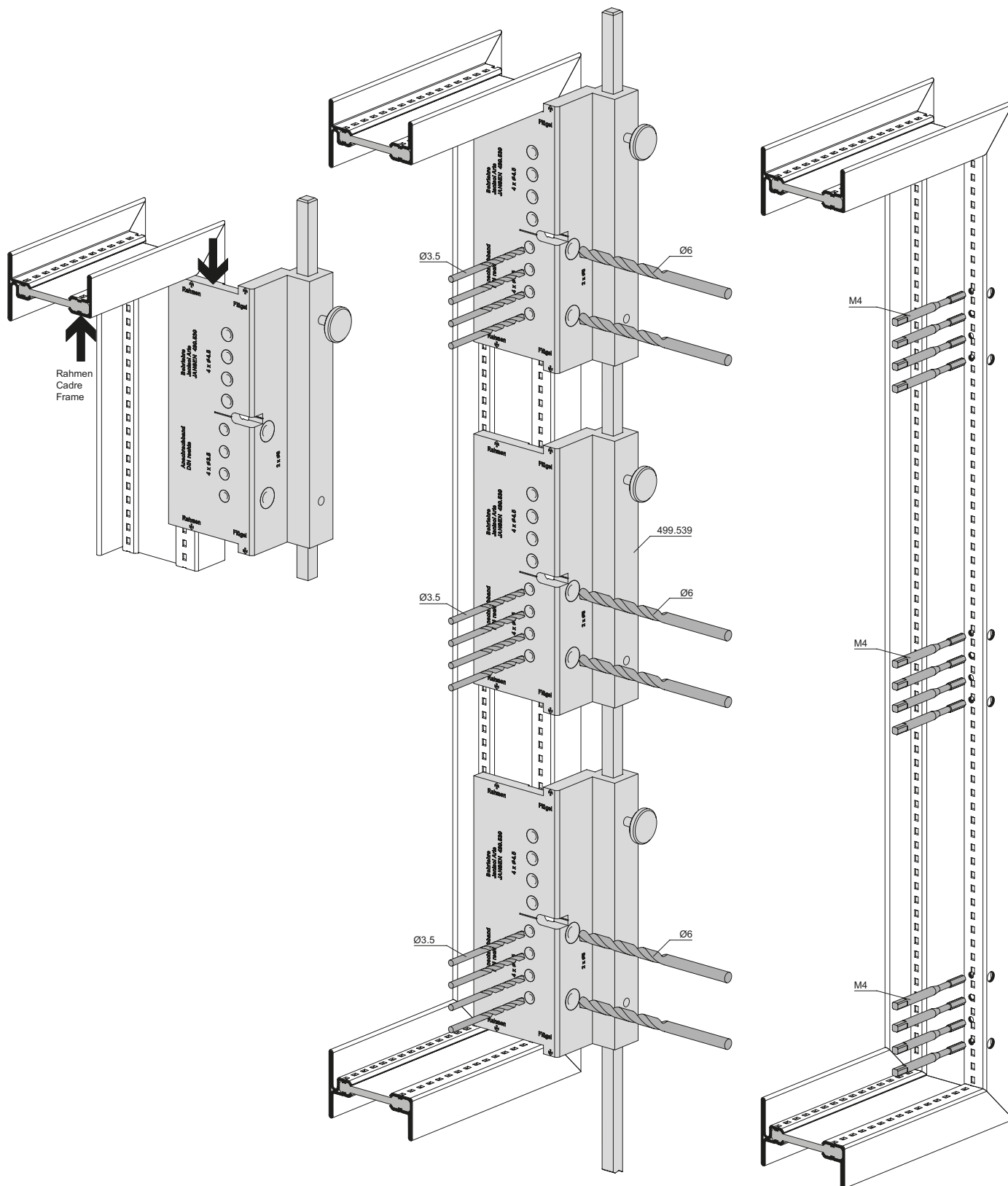
**Drilling jig 499.522 for
 3D screw-on hinges
 557.182/557.183
 557.320/557.321**



Bohrlehre 499.539 für
3D Anschraubbänder
557.182/557.183
557.320/557.321

Gabarit de perçage 499.539 pour
paumelles à visser 3D
557.182/557.183
557.320/557.321

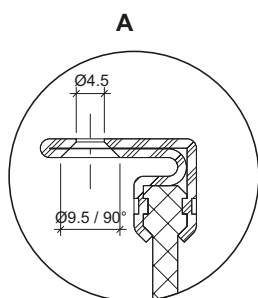
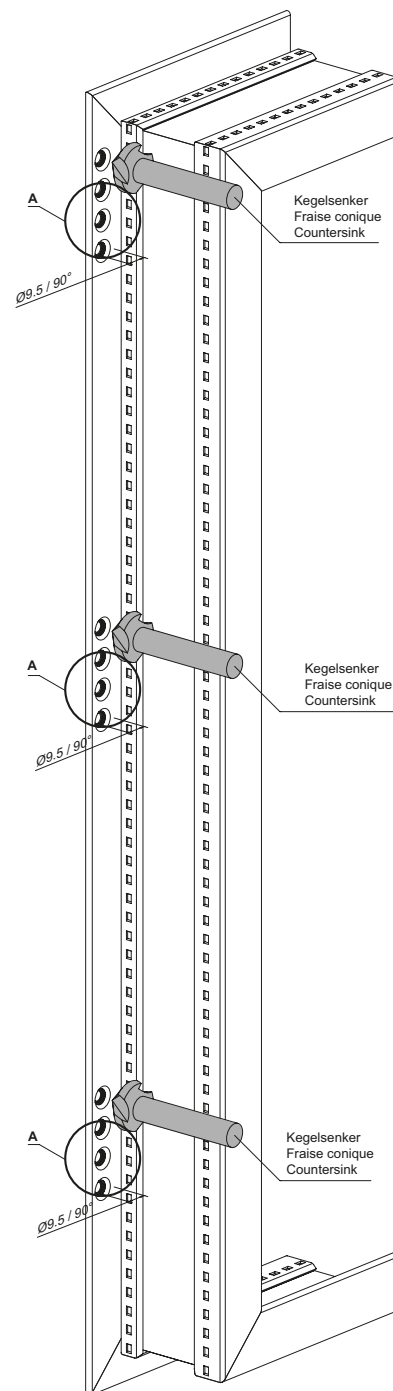
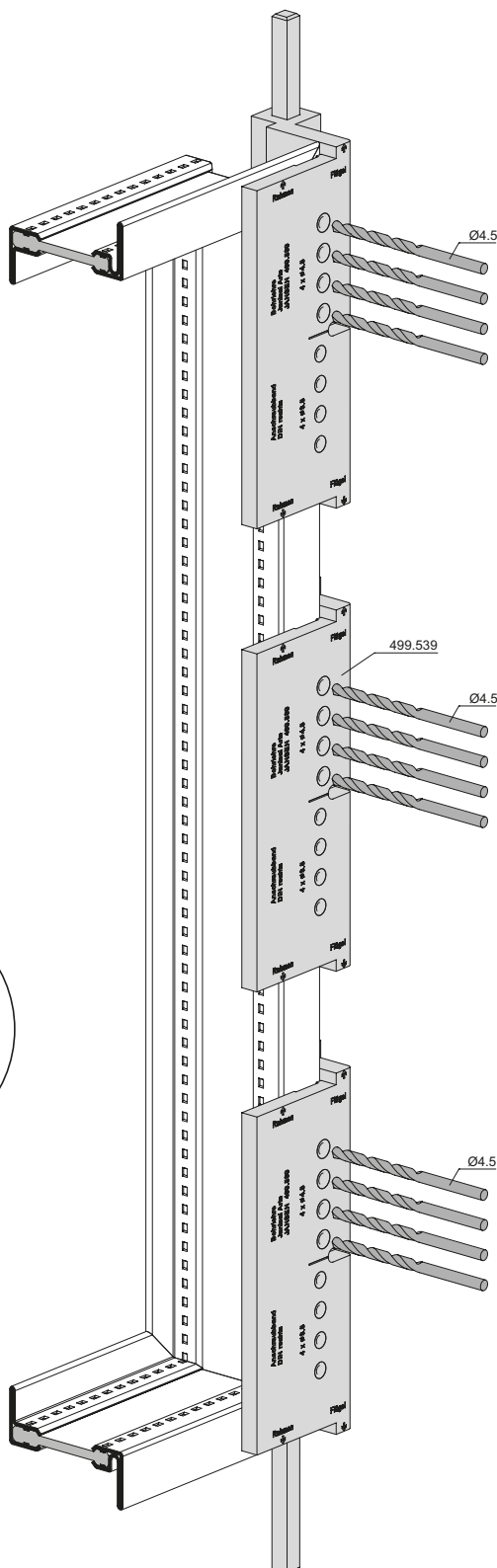
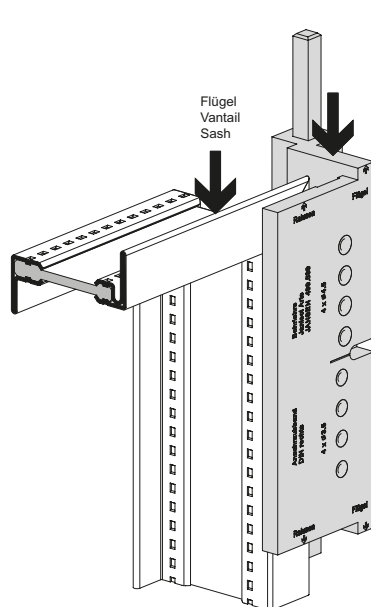
Drilling jig 499.539 for
3D screw-on hinges
557.182/557.183
557.320/557.321



Bohrlehre 499.539 für
3D Anschraubänder
557.182/557.183
557.320/557.321

Gabarit de perçage 499.539 pour
paumelles à visser 3D
557.182/557.183
557.320/557.321

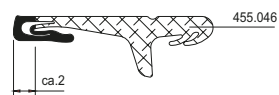
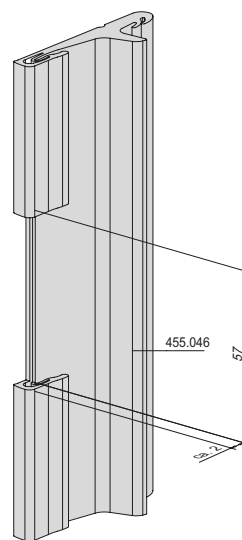
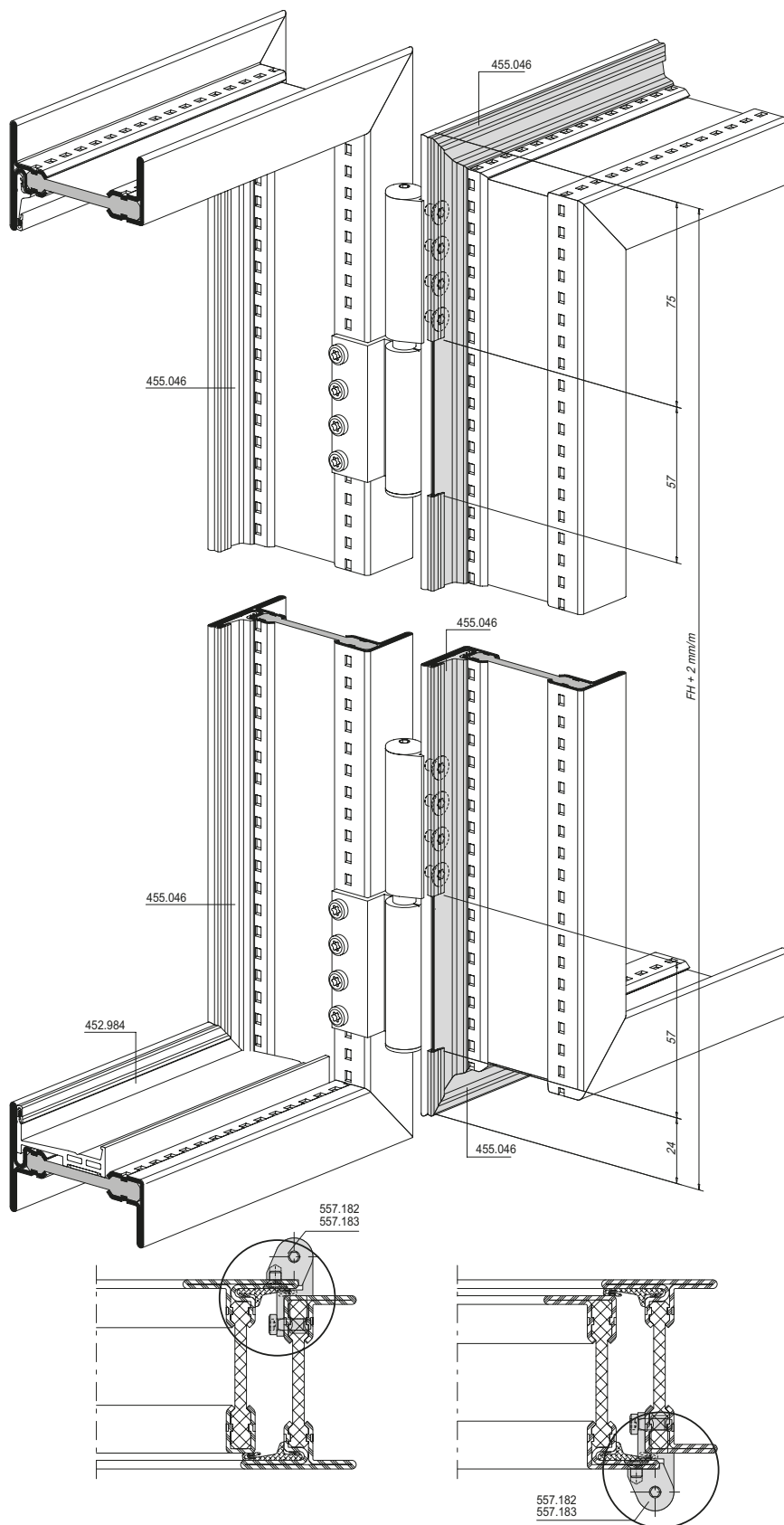
Drilling jig 499.539 for
3D screw-on hinges
557.182/557.183
557.320/557.321



Zuschnitt Anschlagdichtung 455.046

Découpe pour joint de butée
455.046

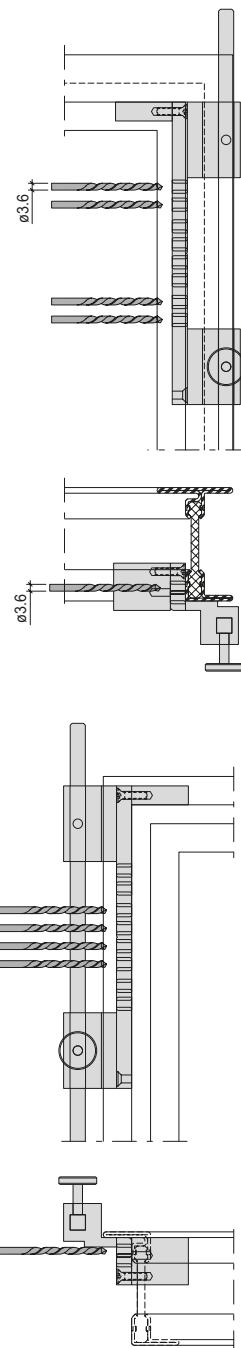
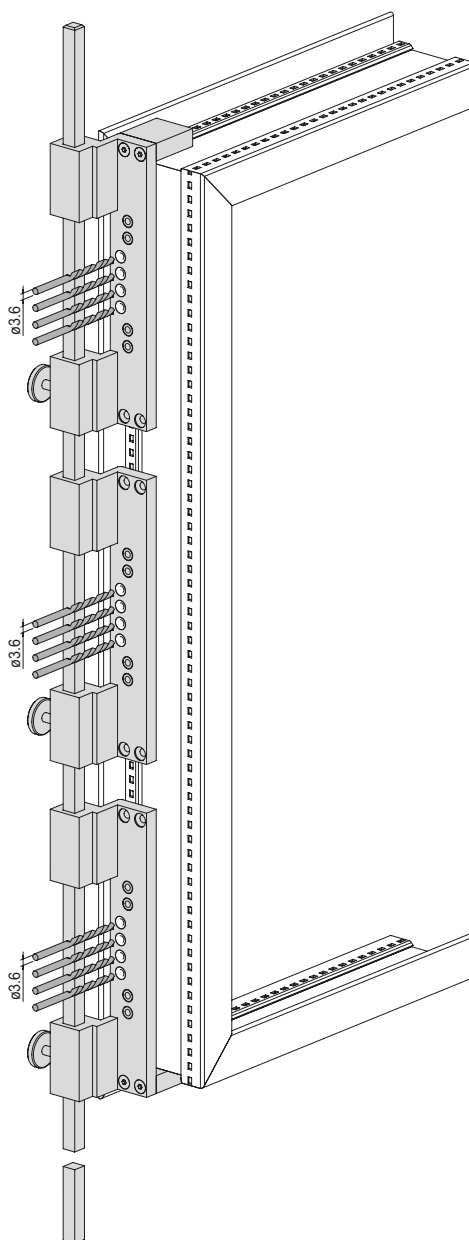
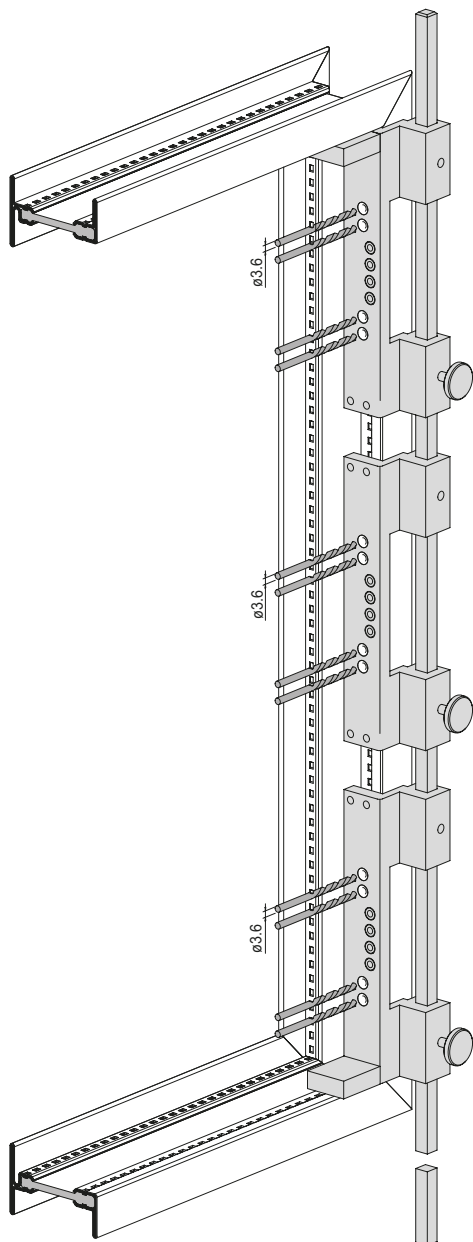
Cutting rebate weatherstrip 455.046



Bohrlehre 499.422
für Anschraubband 555.484

Gabarit de perçage 499.422 pour
paumelle à visser 555.484

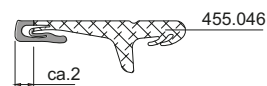
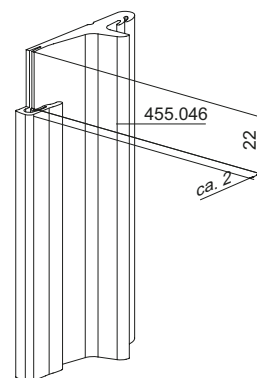
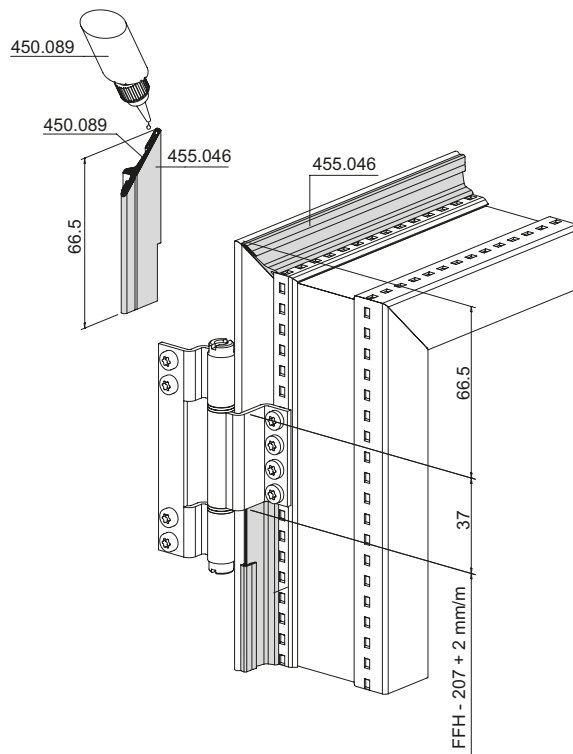
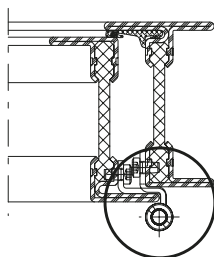
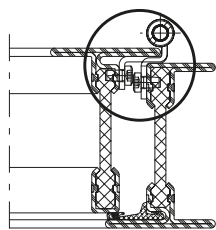
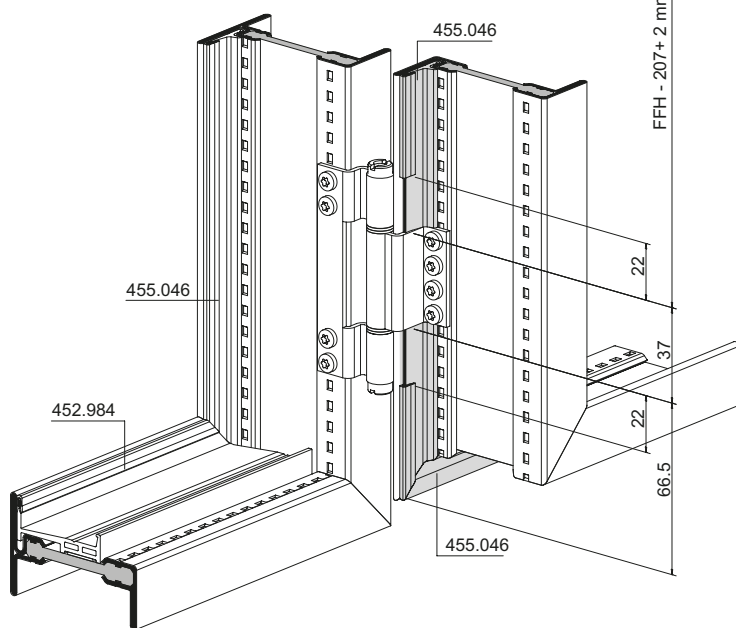
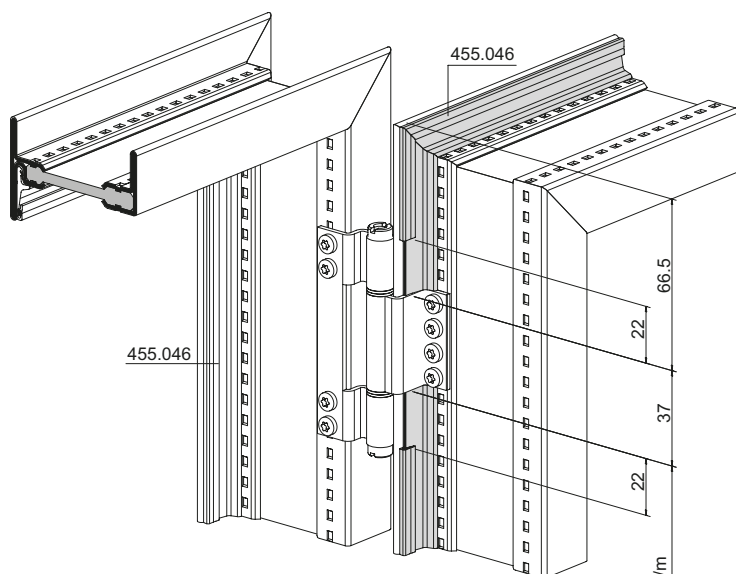
Drilling jig 499.422 for
screw-on hinge 555.584



Zuschnitt Anschlagdichtung 455.046

Découpe pour joint de butée
455.046

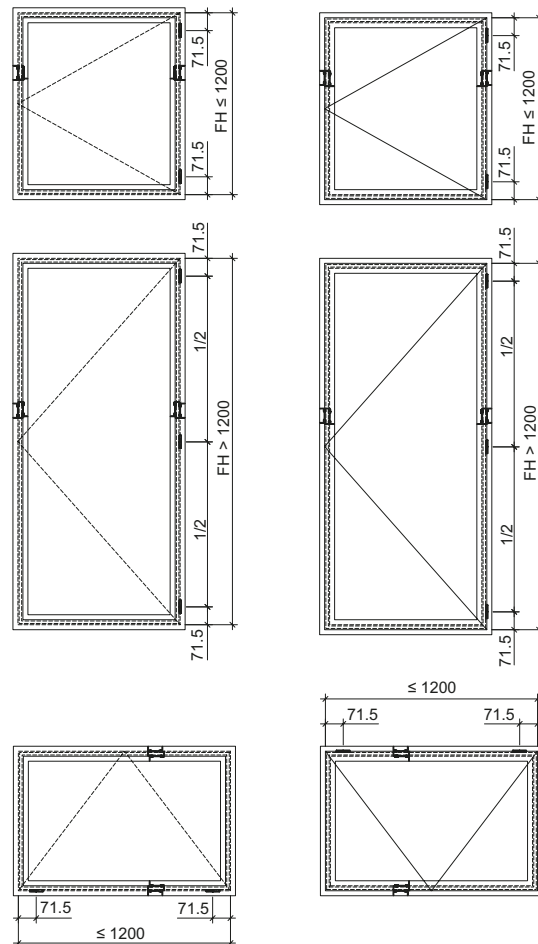
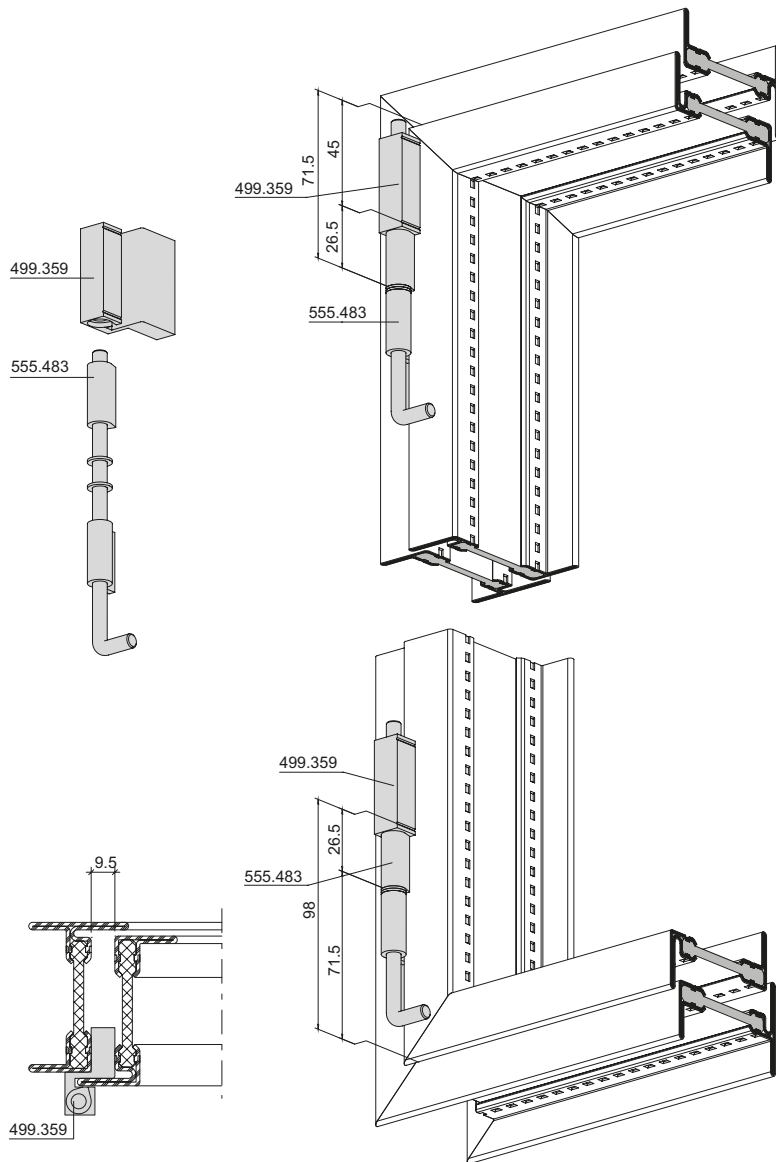
Cutting rebate weatherstrip 455.046



**Einbau Anschweisband 555.483
 mit Anschweislehre 499.359**

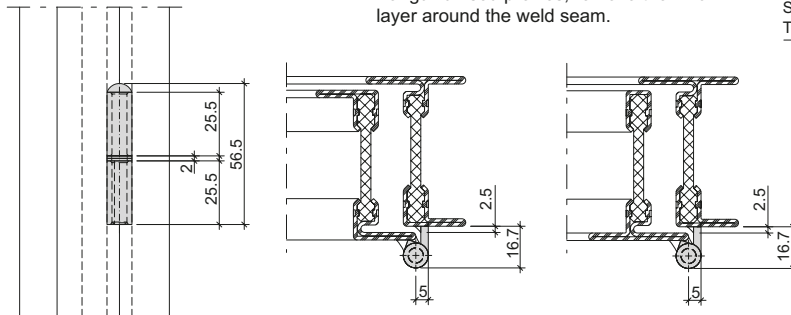
**Montage paumelle à souder 555.483
 avec gabarit de soudage 499.359**

**Installation weld-on hinge 555.483
 with welding fixture 499.359**



Bei Einsatz in Kipp- oder Klappflügel Dorn sichern.
 Bloquer la tige quand des vantaux à soufflet ou à bascule sont utilisés.
 Secure spindle for use in bottom-hung or top-hung vents.

- * Bei verzinkten Profilen Zinkschicht im Bereich der Schweißnaht entfernen.
- * Pour les profilés galvanisés, retirer la couche de zinc dans la zone du cordon de soudure.
- * For galvanised profiles, remove the zinc layer around the weld seam.



TIG Schweißung*
 Soudage TIG*
 TIG Welding*

TIG Schweißung*
 Soudage TIG*
 TIG Welding*

Einbau mit 499.359

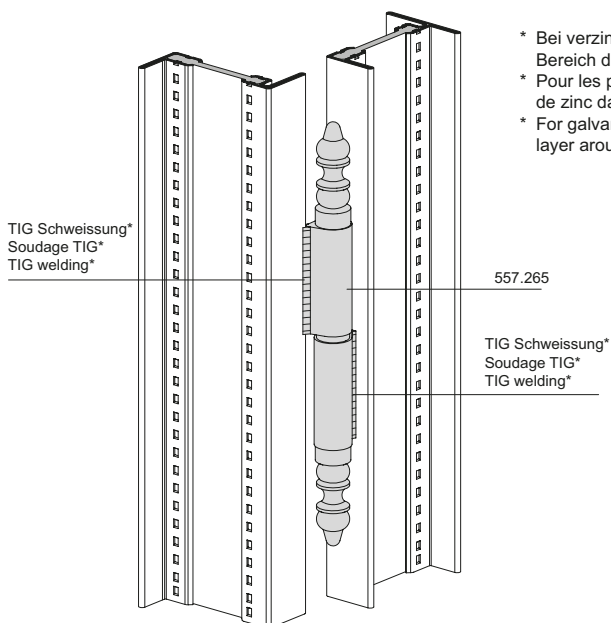
Montage avec 499.359

Installation with 499.359

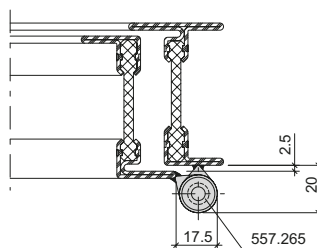
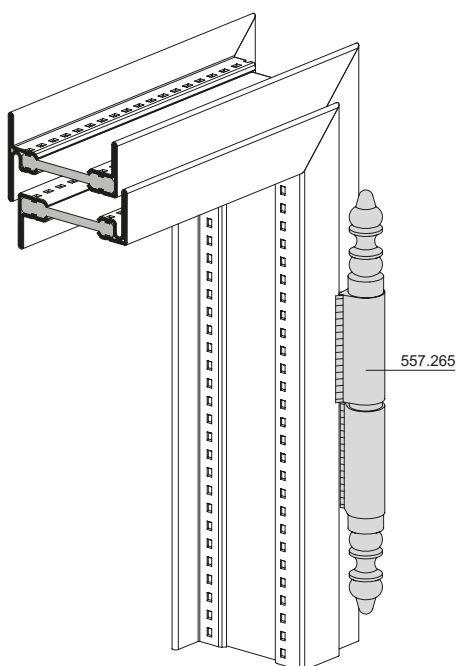
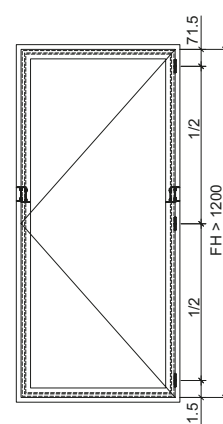
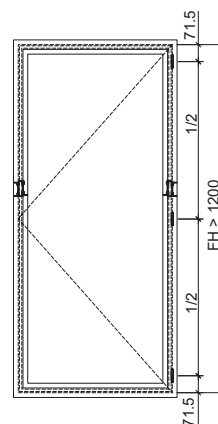
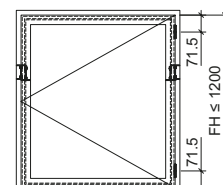
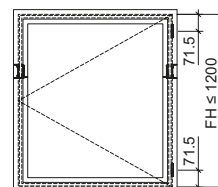
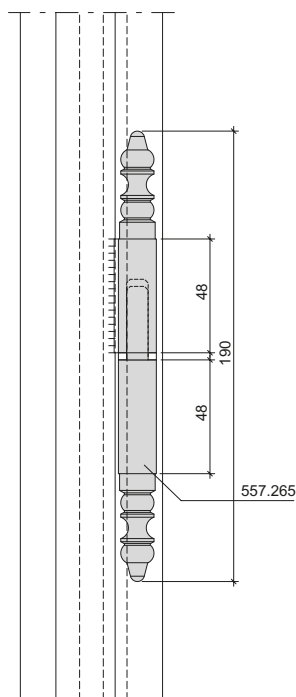
Einbau Anschweissband 557.265

Montage paumelle à souder 557.265

Installation weld-on hinge 557.265



- * Bei verzinkten Profilen Zinkschicht im Bereich der Schweißnaht entfernen.
- * Pour les profils galvanisés, retirer la couche de zinc dans la zone du cordon de soudure.
- * For galvanised profiles, remove the zinc layer around the weld seam.



Hinweis:

Ab Flügelhöhe 1200 mm ist ein zusätzliches Band erforderlich!

Remarque:

Une paumelle supplémentaire est nécessaire à partir d'une hauteur de vantail de 1200 mm!

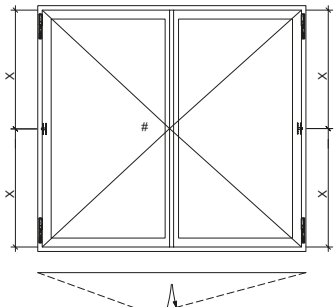
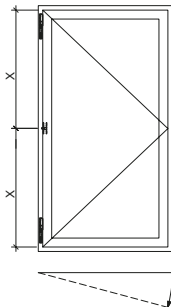
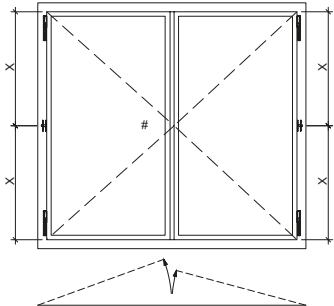
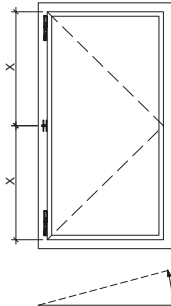
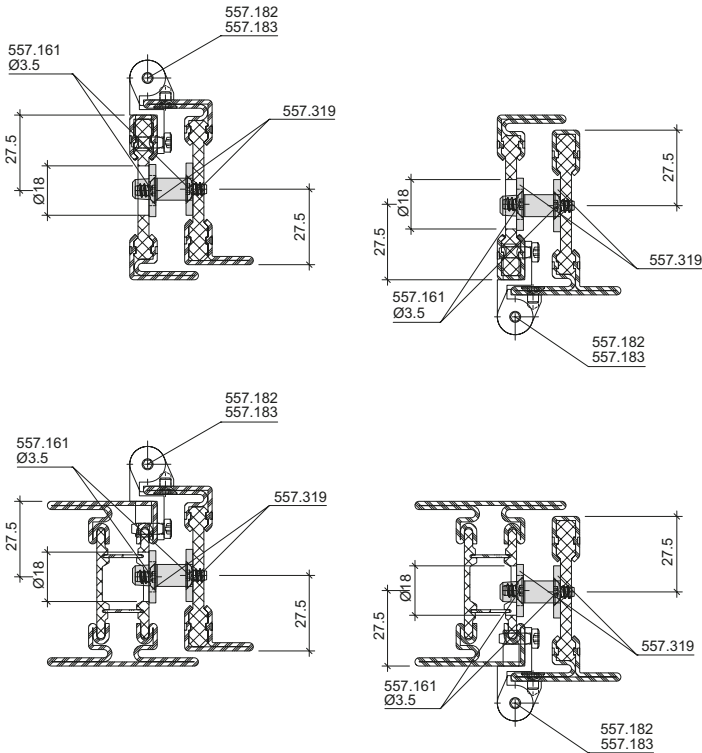
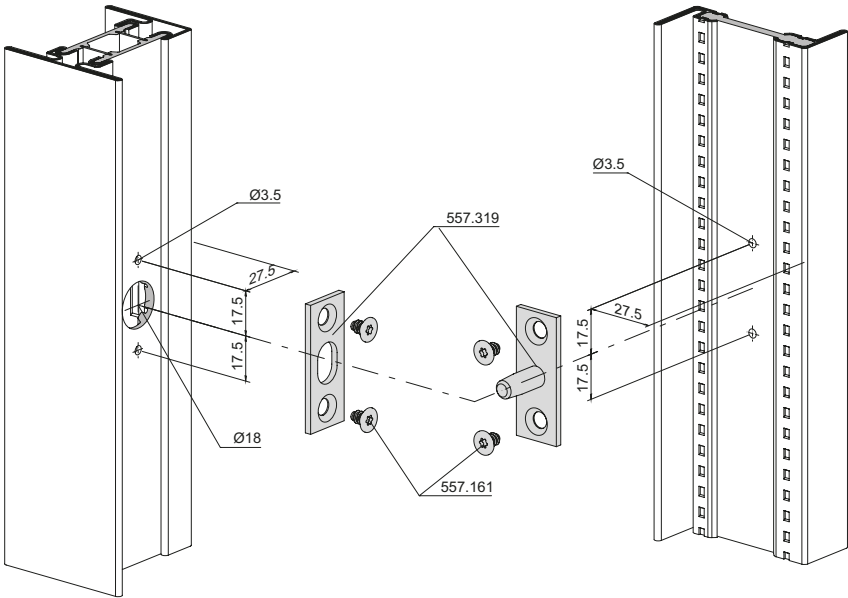
Note:

An additional hinge is required for a sash height of 1200 mm and above!

Bohrbild und Einbau Zwangsverriegelung 557.319

Schéma de perçage et montage verrouillage forcé 557.319

Drilling pattern and installation security locking system 557.319



Einbau mit 499.548

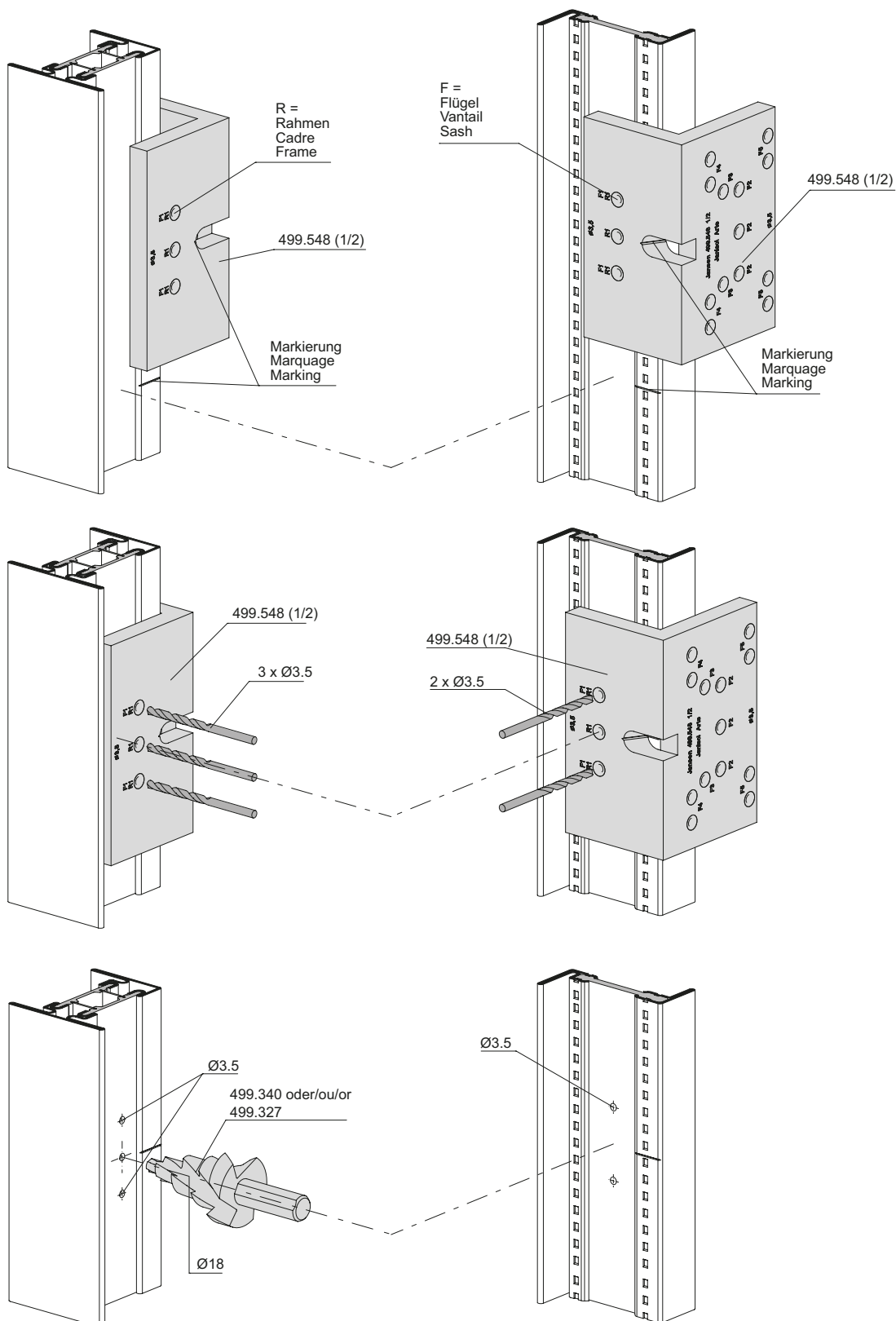
Montage avec 499.548

Installation with 499.548

Bohrlehre 499.548 für
Zwangsverriegelung 557.319

Gabrait de perçage 499.548 pour
verrouillage forcé 557.319

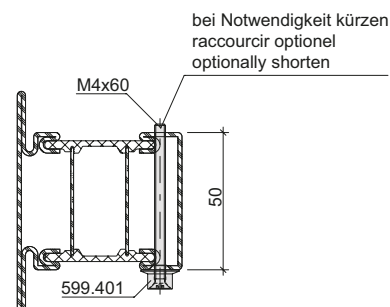
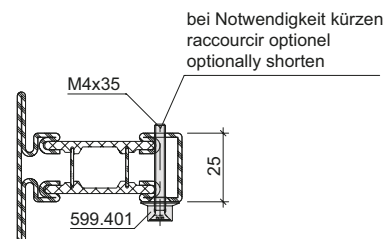
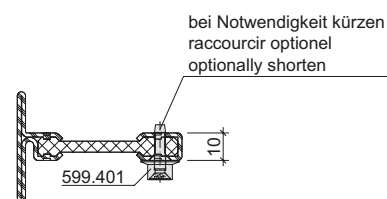
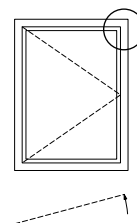
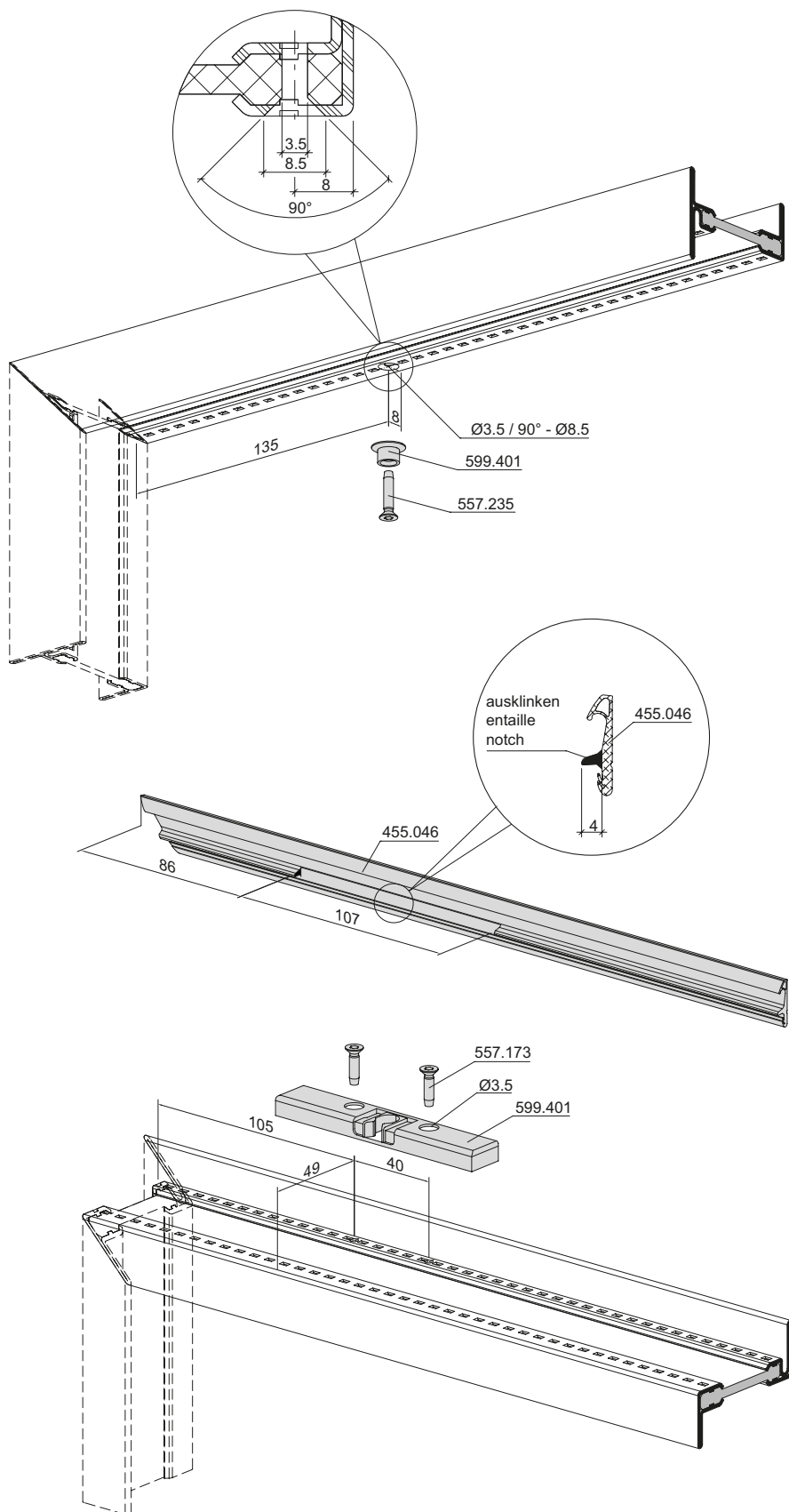
Drilling jig 499.548 for security
locking system 557.319



Einbau Falz Schnäpper 599.401

Montage loqueteau de feuillure
599.401

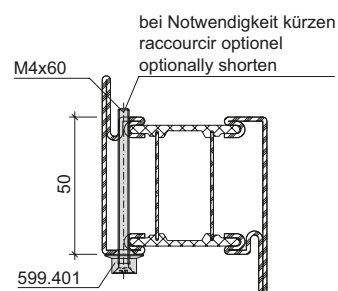
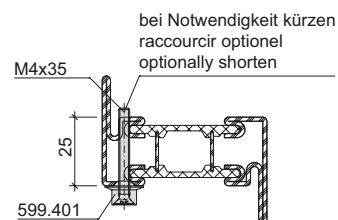
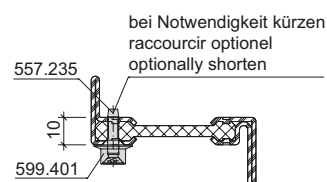
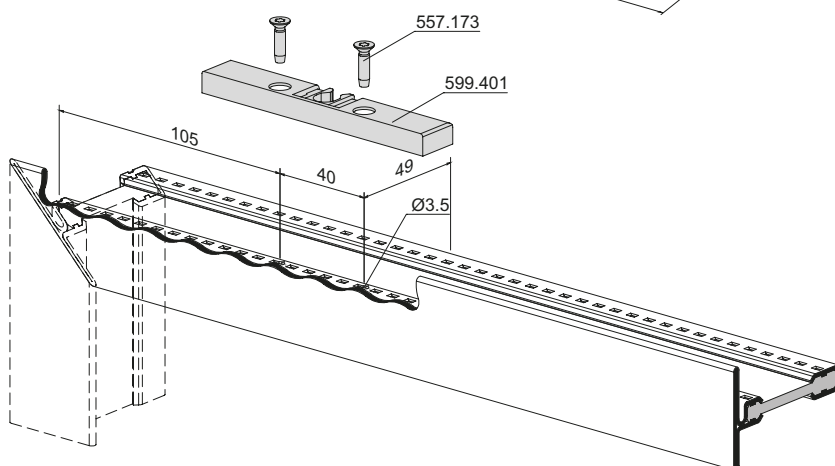
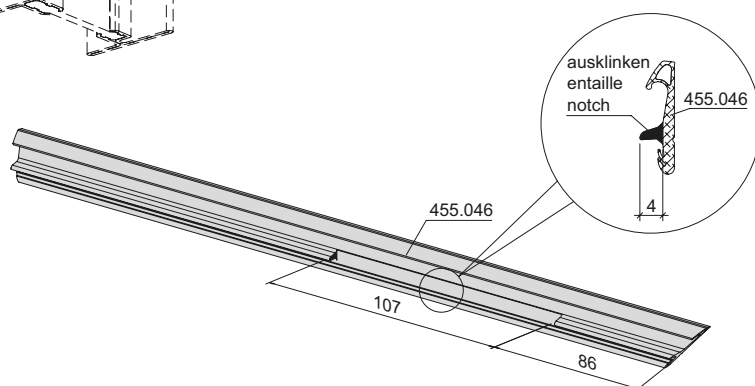
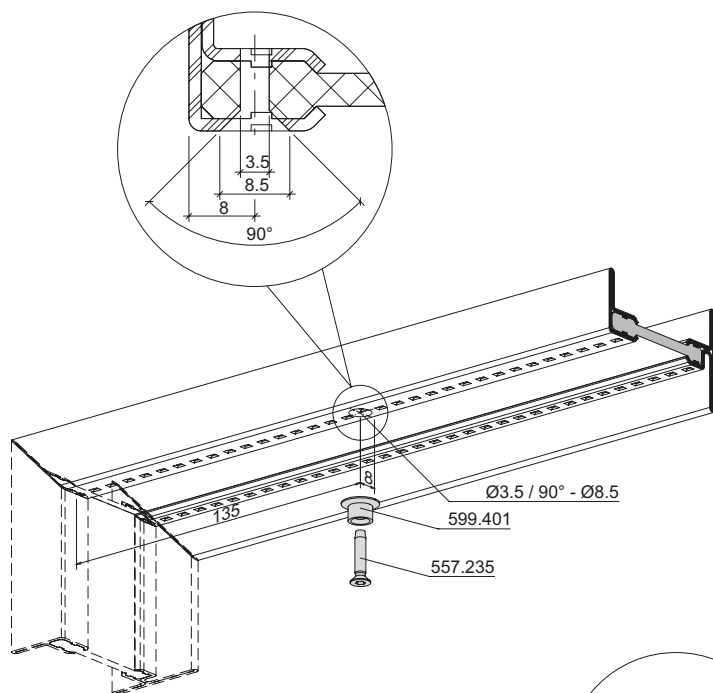
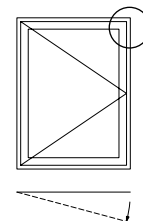
Installation spring loaded catch
599.401



Einbau Falzsnäpper 599.401

Montage loqueteau de feuillure
599.401

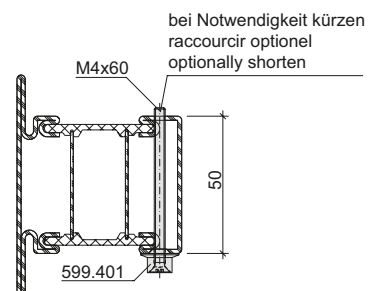
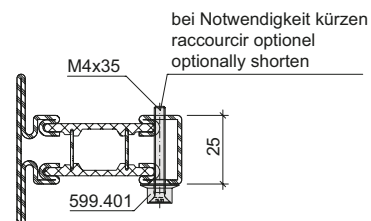
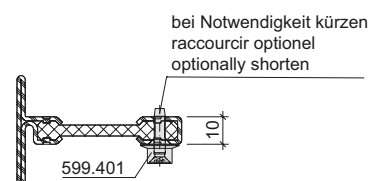
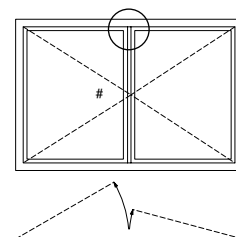
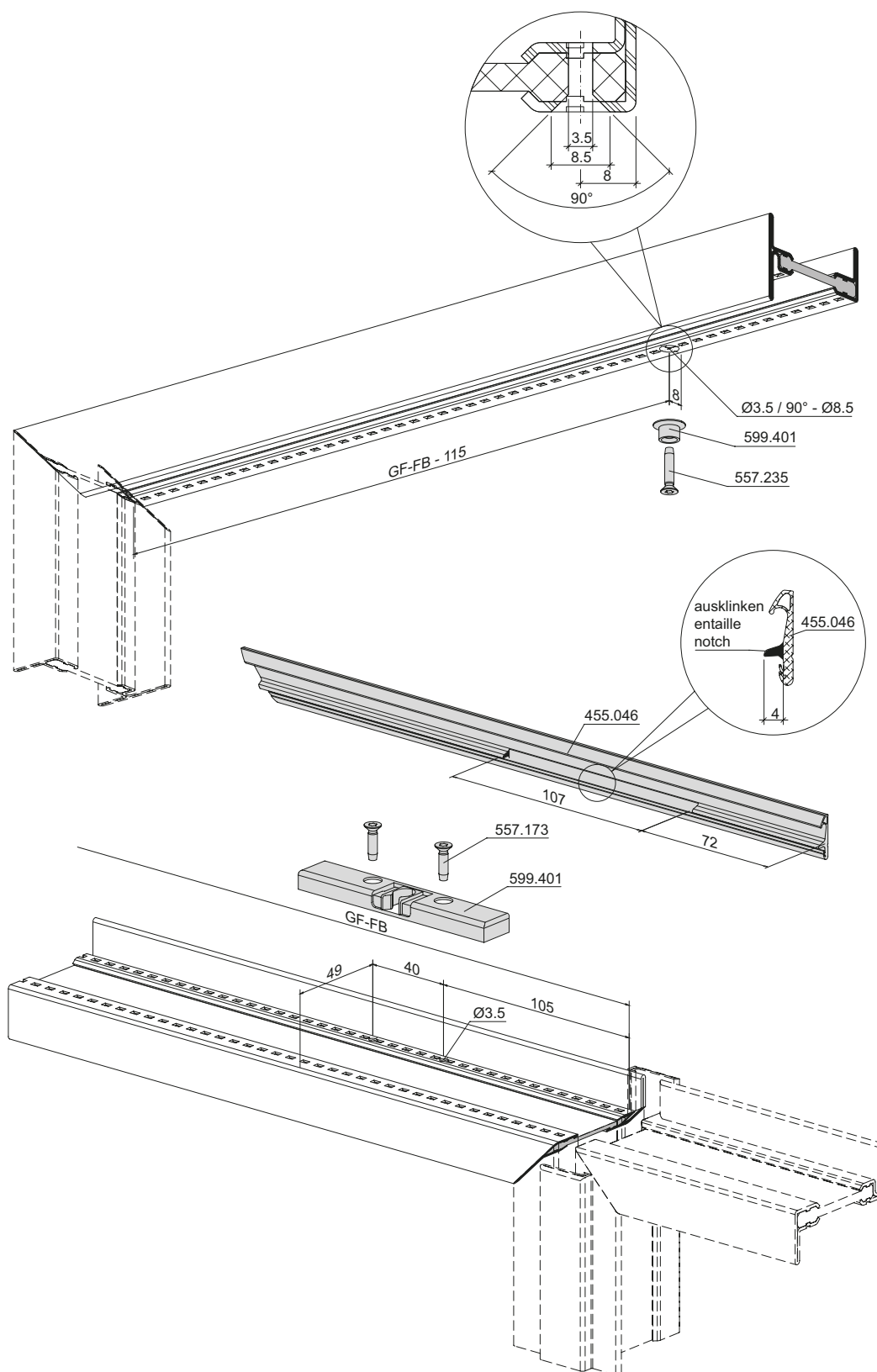
Installation spring loaded catch
599.401



Einbau Falz Schnäpper 599.401

Montage loqueteau de feuillure
599.401

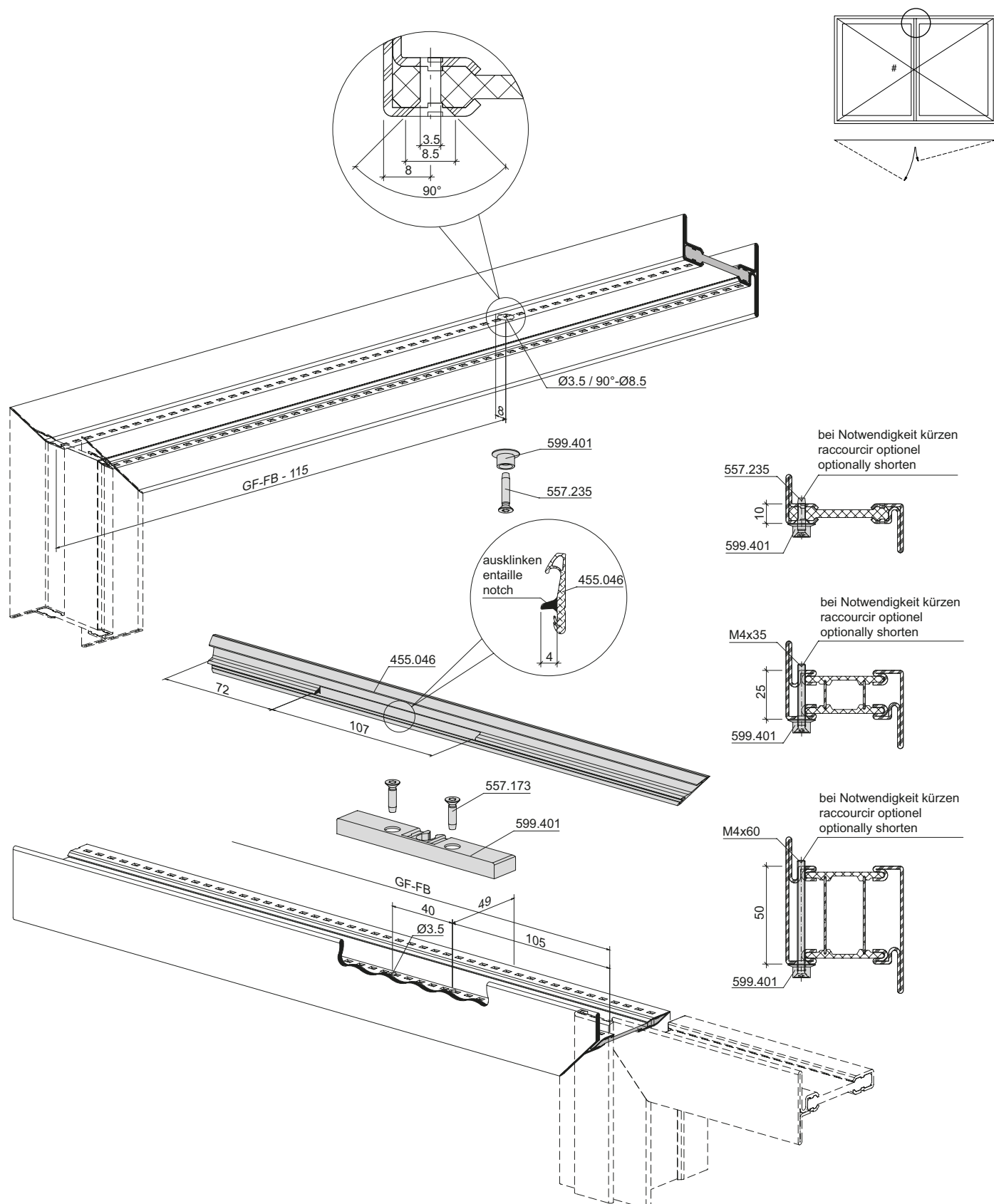
Installation spring loaded catch
599.401

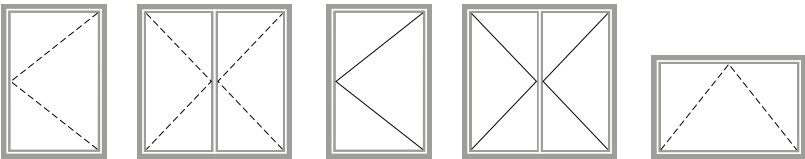


Einbau Falz Schnäpper 599.401

Montage loqueteau de feuillure
599.401

Installation spring loaded catch
599.401





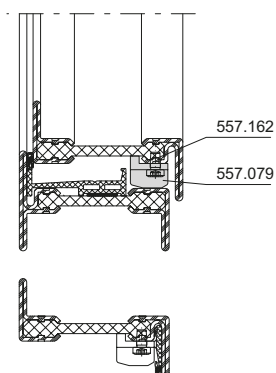
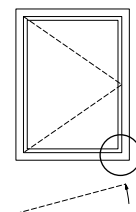
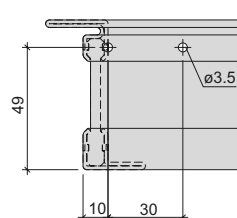
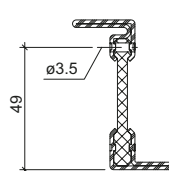
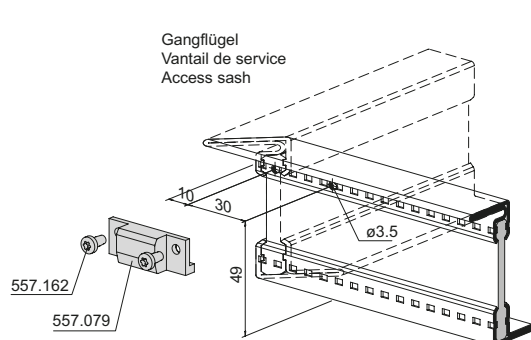
Auflaufbock Kantenriegel	Bloc d'arrêt Verrou à bascule	Engagement block Flush bolt
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Auflaufbock 557.079	Bloc d'arrêt 557.079	Engagement block 557.079	53
Kantenriegel 557.192 / 557.139	Verrou à bascule 557.192 / 557.139	Flush bolt 557.192 / 557.139	55

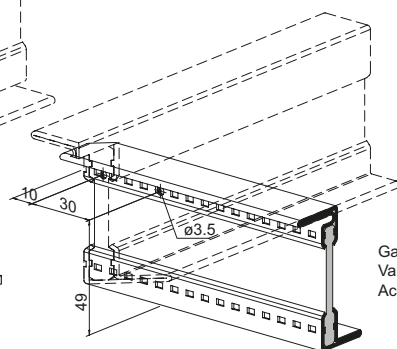
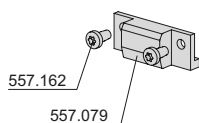
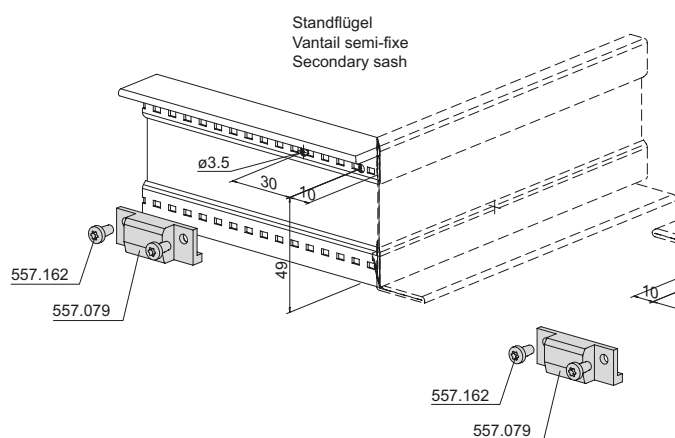
Auflaufbock 557.079

Bloc d'arrêt 557.079

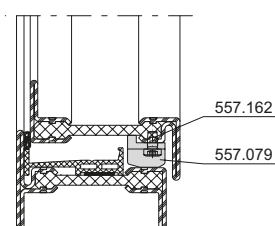
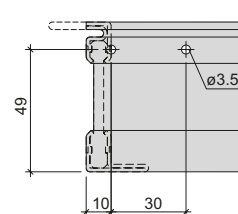
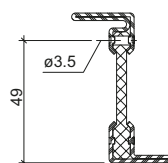
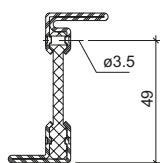
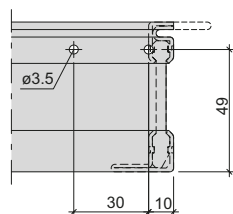
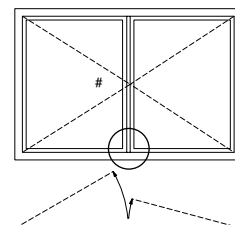
Engagement block 557.079



Ausklüpfung Dichtung im Bereich Auflaufbock
 Entaille du joint dans le domaine du bloc d'arrêt
 Notching the weatherstrip in the area of engagement block



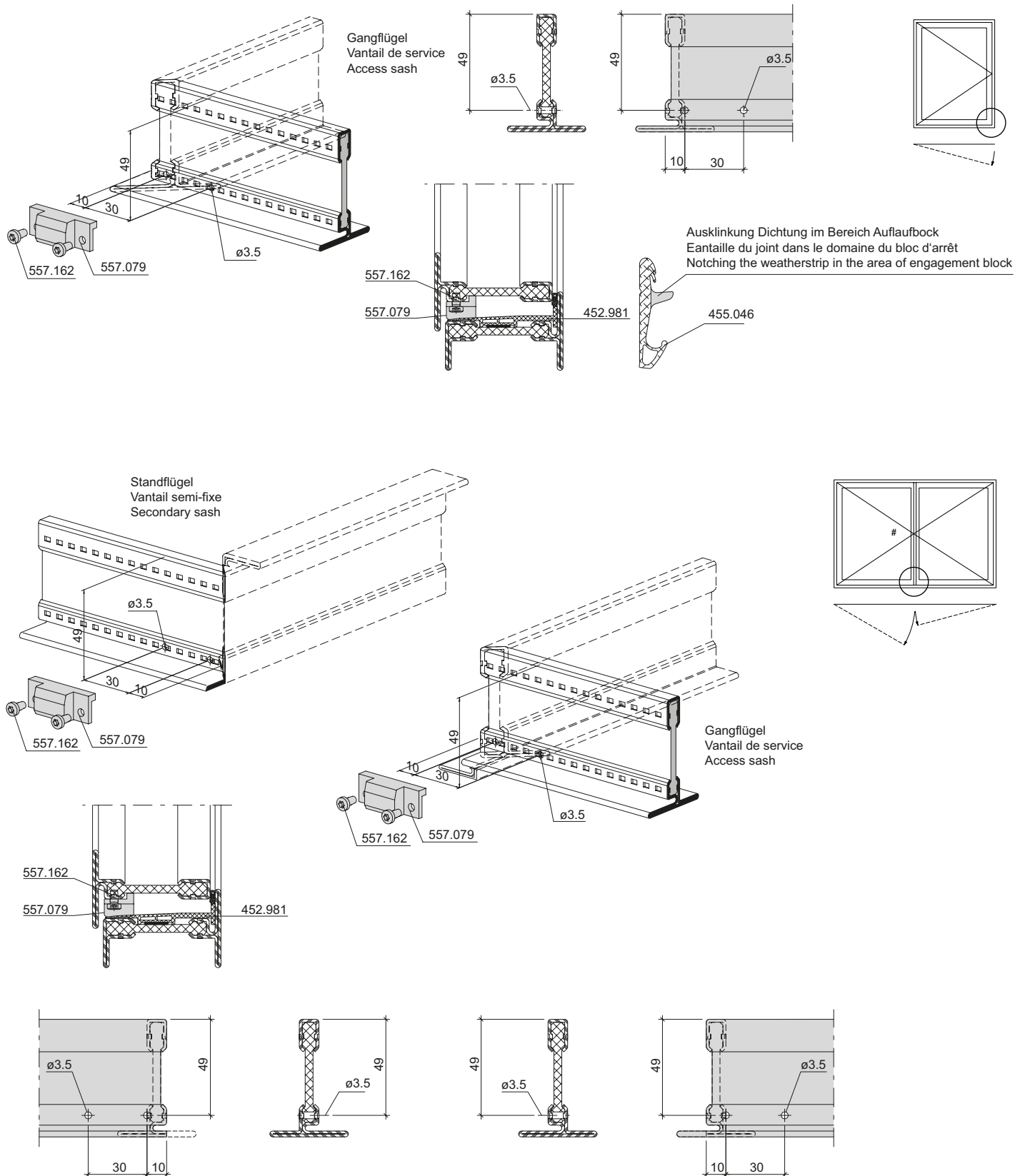
Gangflügel
 Vantail de service
 Access sash



Auflaufbock 557.079

Bloc d'arrêt 557.079

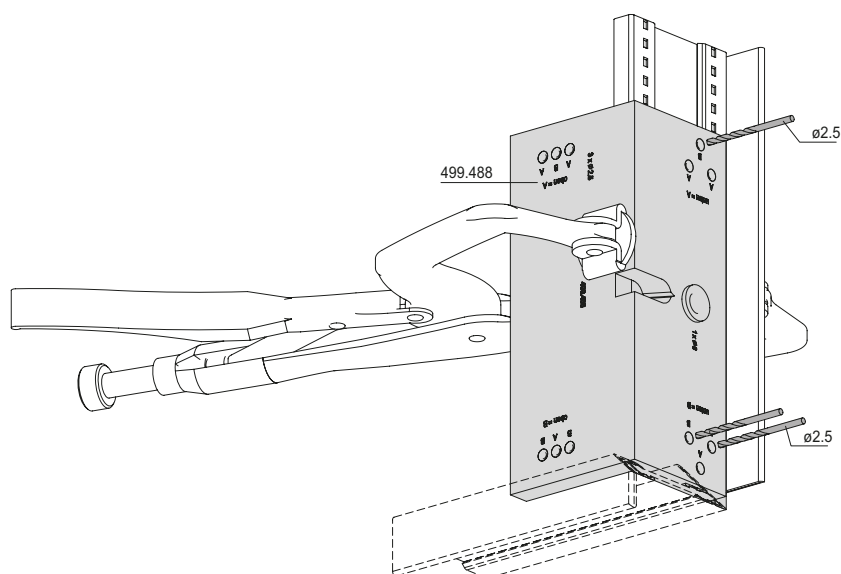
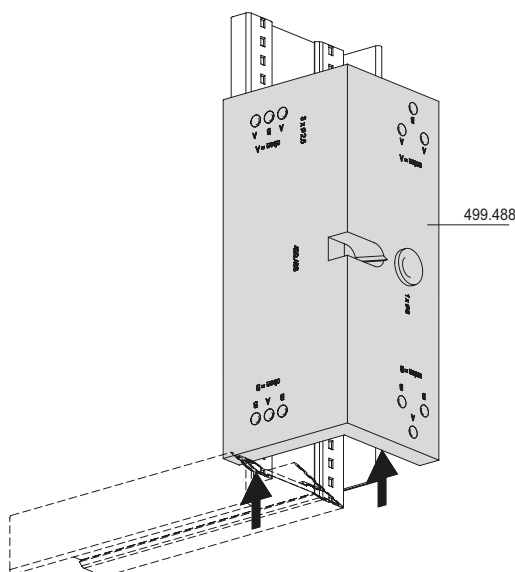
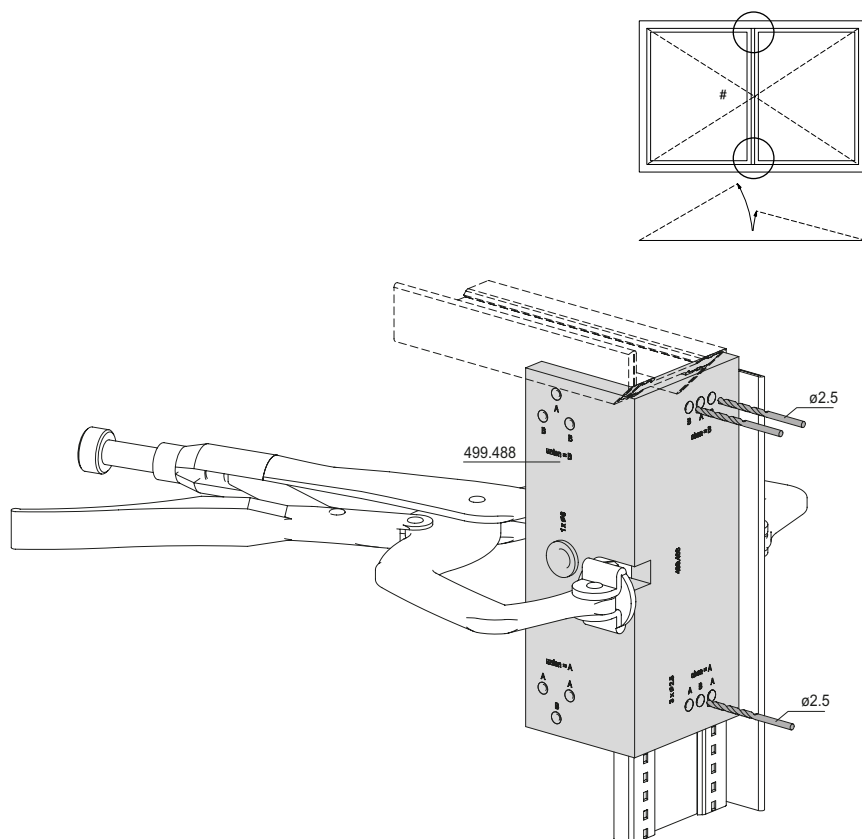
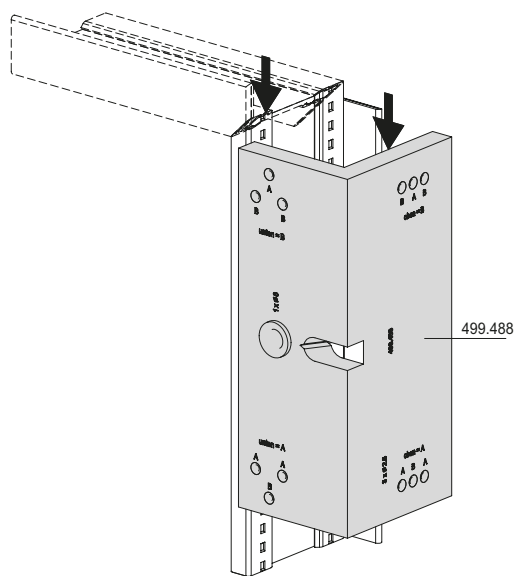
Engagement block 557.079



Bohrlehre 499.488 für
Kantenriegel 557.192
Standflügel

Gabarit de perçage 499.488 pour
verrou à bascule 557.192
Vantail semi-fixe

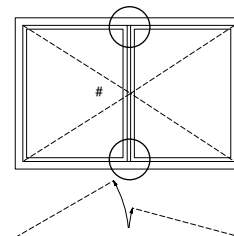
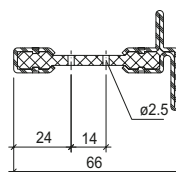
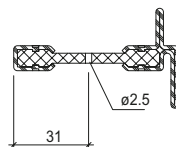
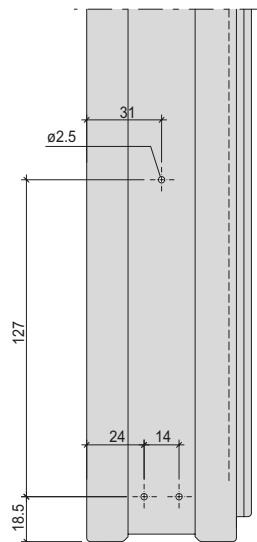
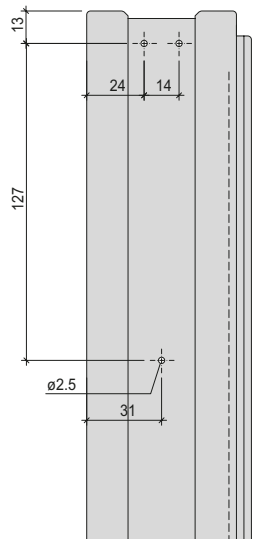
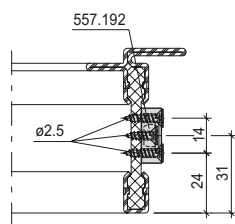
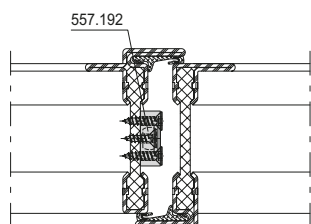
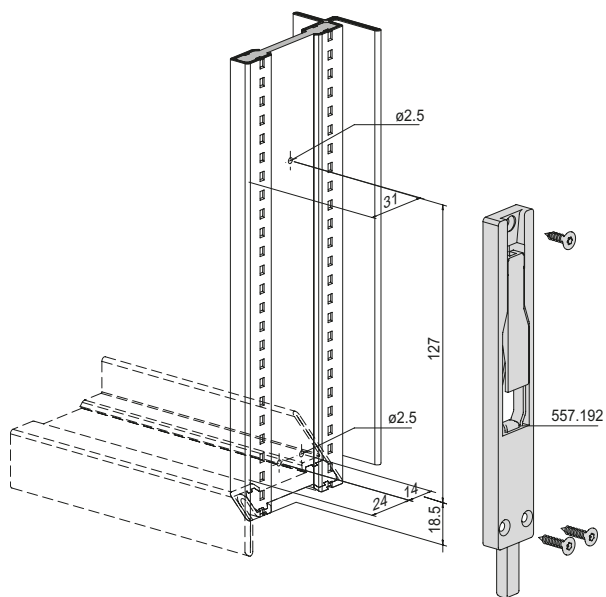
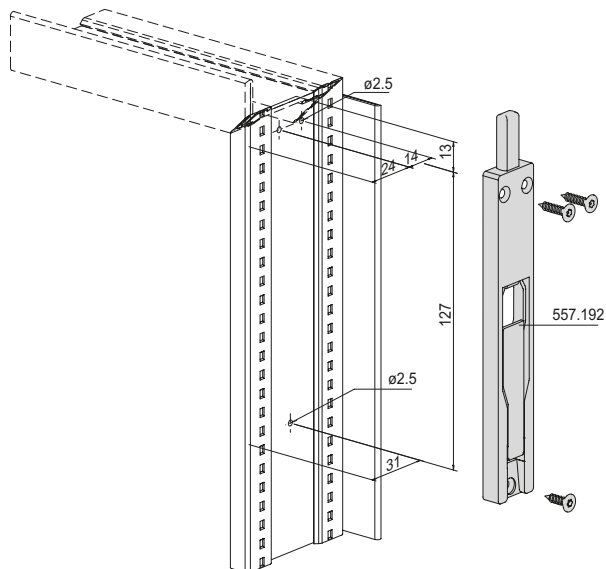
Drilling jig 499.488 for
flush bolt 557.192
Secondary sash



Kantenriegel 557.192
Standflügel

Verrou à bascule 557.192
Vantail semi-fixe

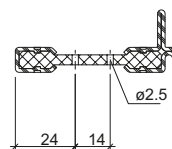
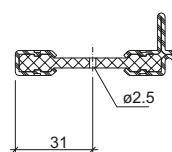
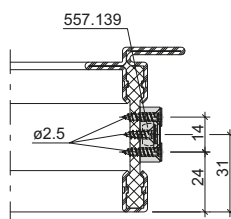
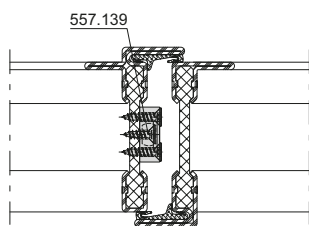
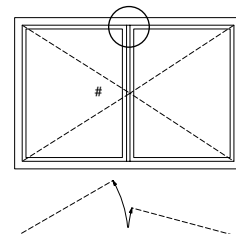
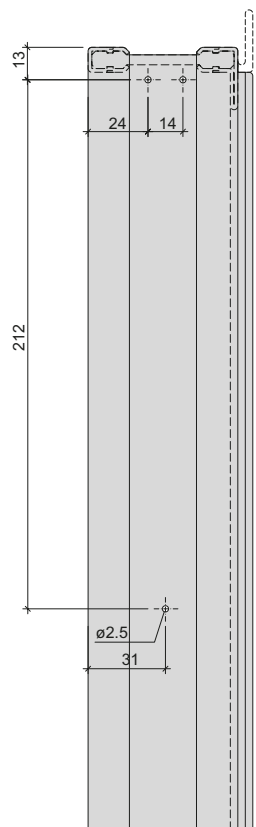
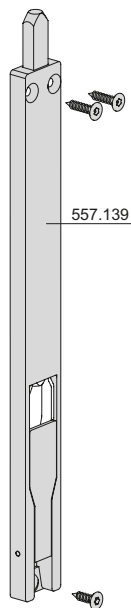
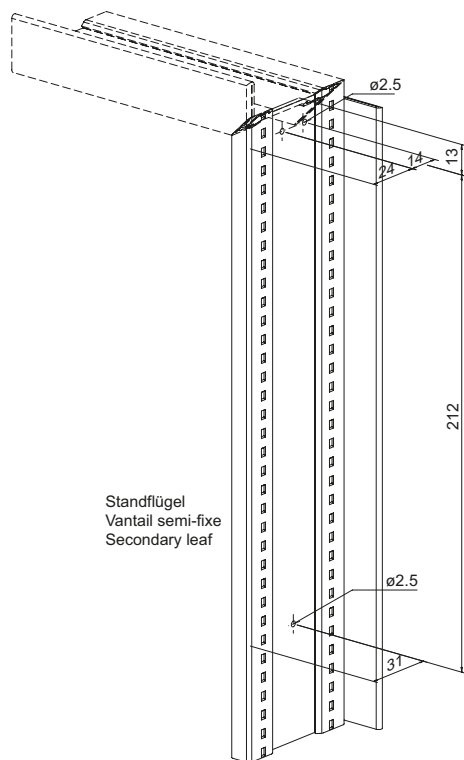
Flush bolt 557.192
Secondary sash



Kantenriegel 557.139
Standflügel

Verrou à bascule 557.139
Vantail semi-fixe

Flush bolt 557.139
Secondary sash



Hinweis: Lage der Verriegelungspunkte anpassen (min. 85 mm)

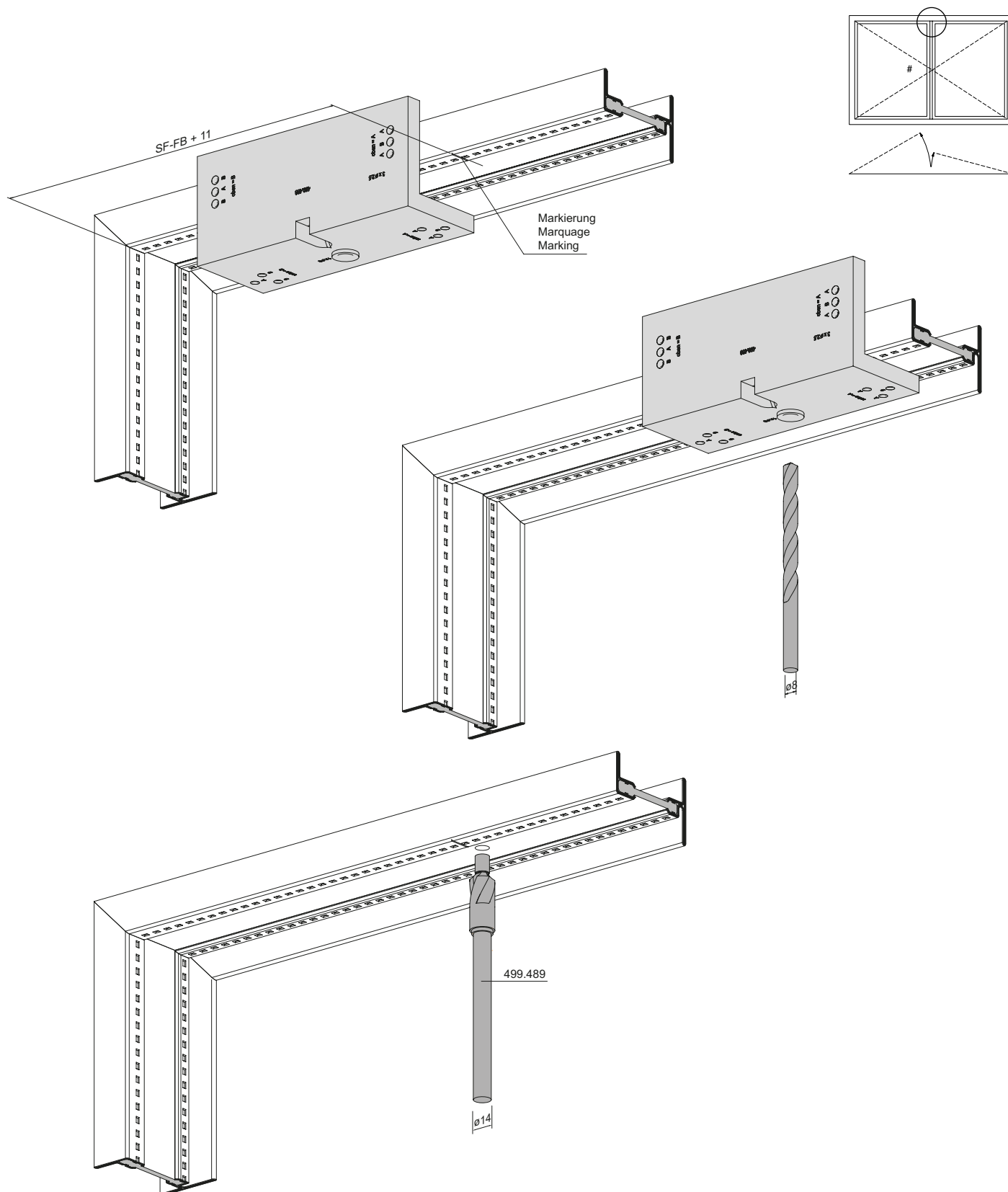
Remarque: Adapter la position des points de verrouillage

Note: Adjust position of the locking points (min. 85 mm)

Bohrlehre 499.488
für Büchse oben (557.192)

Gabarit de perçage 499.488
pour coussinet en haut (557.192)

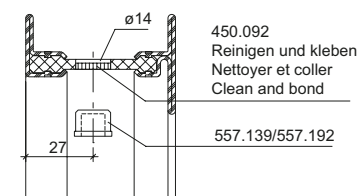
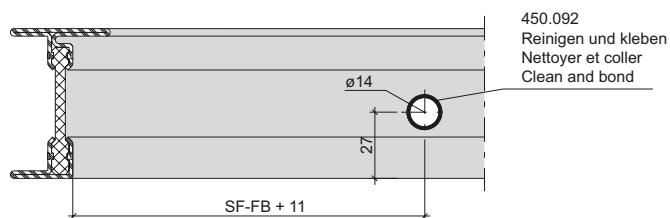
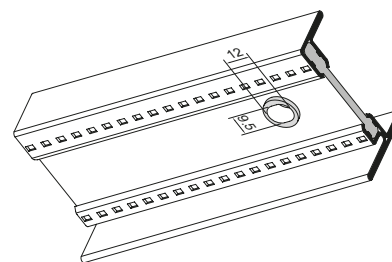
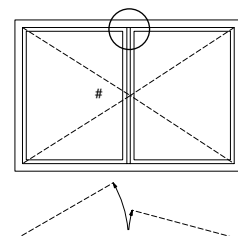
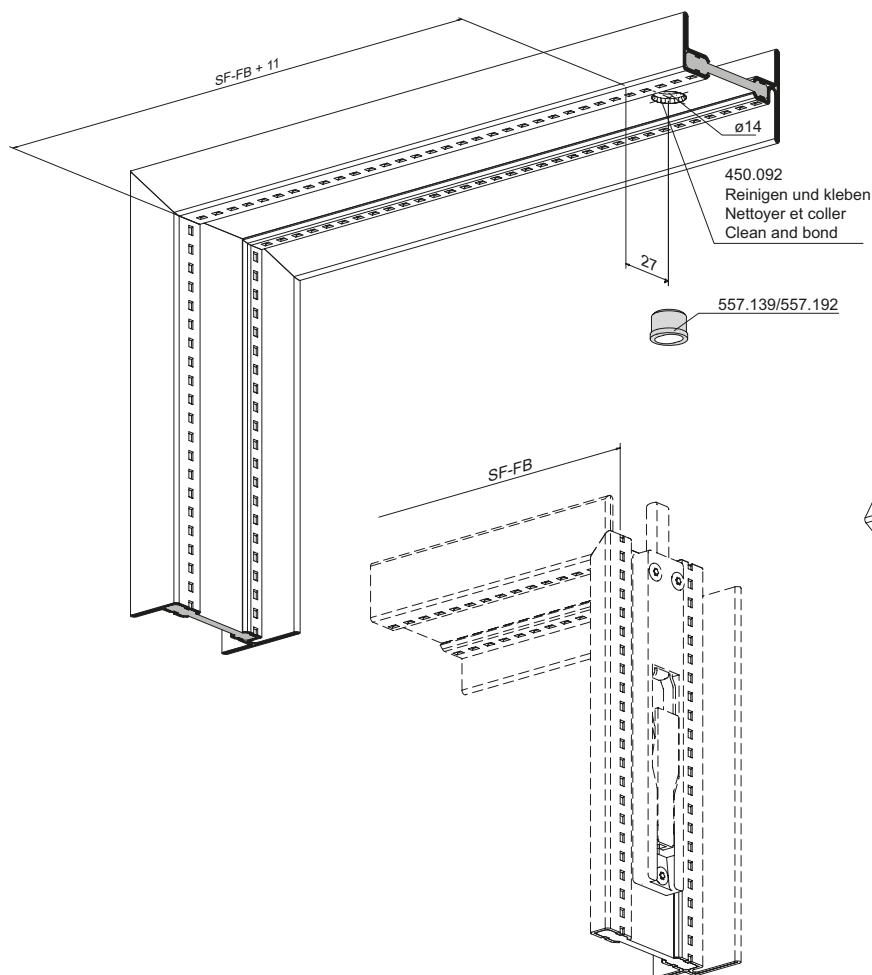
Drilling jig 499.488
for top socket (557.192)



Büchse oben zu Kantenriegel
557.139 und 557.192

Coussinet en haut du verrou à
bascule 557.139 et 557.192

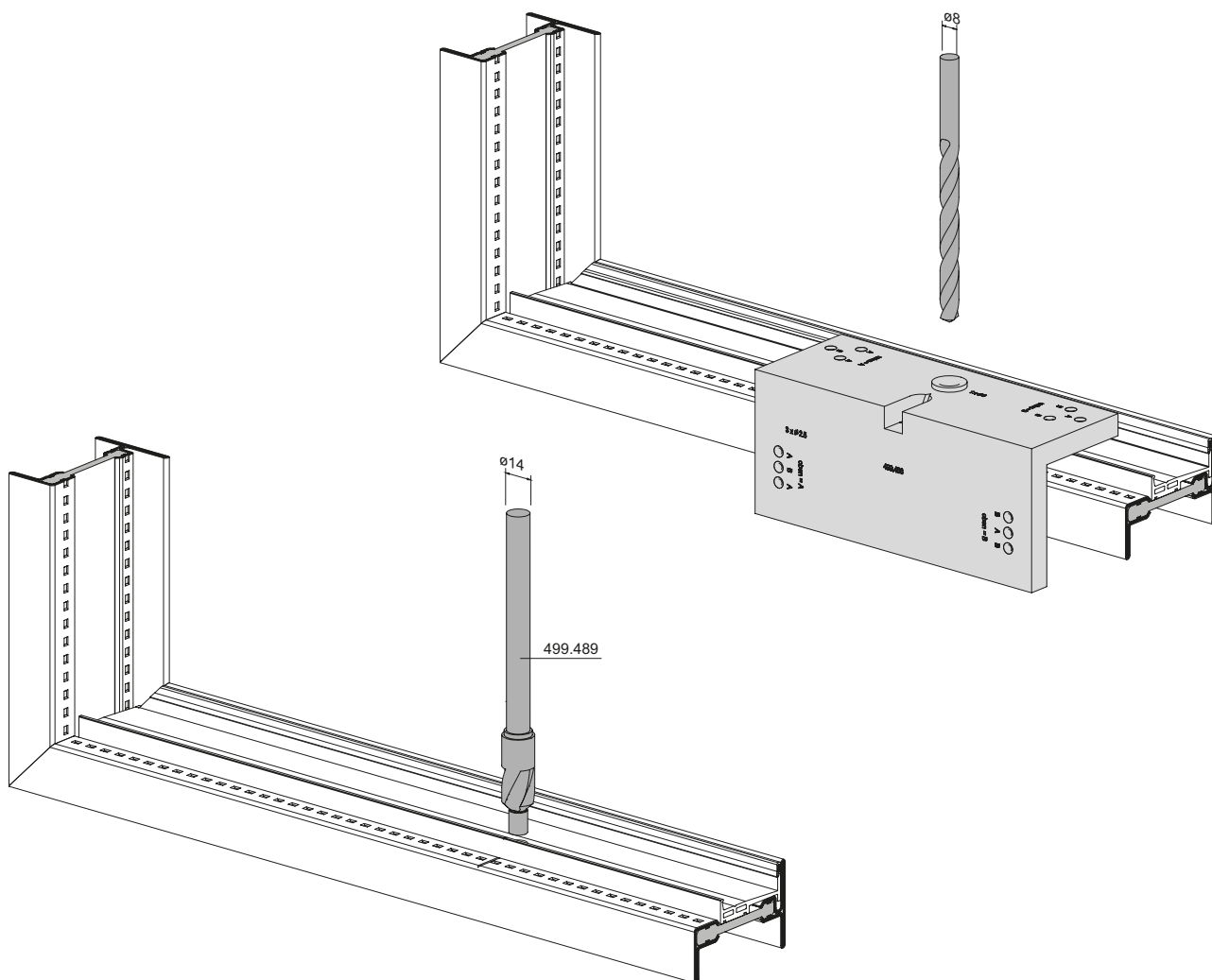
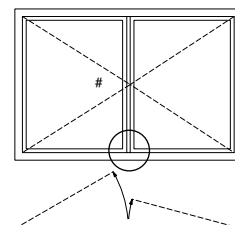
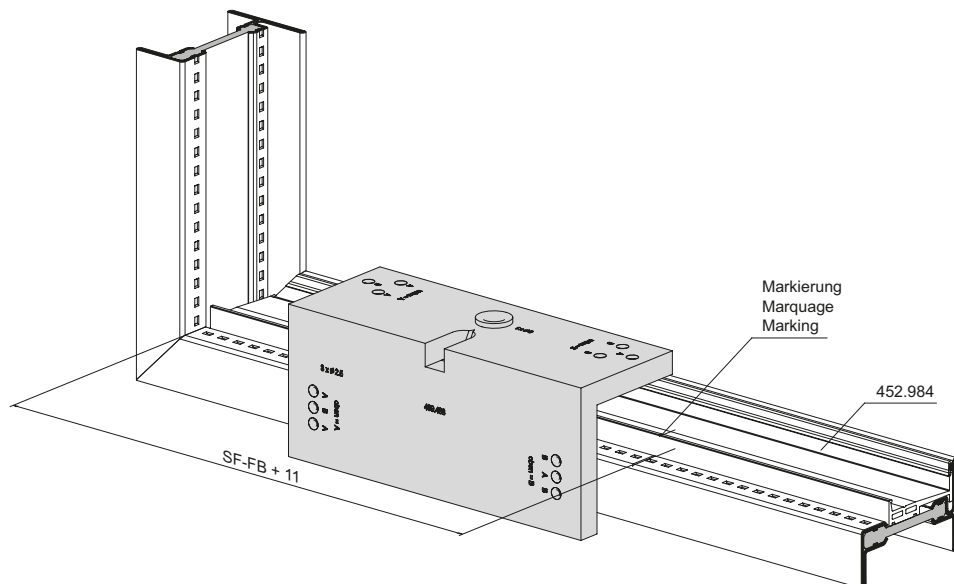
Top socket for flush bolt
557.139 and 557.192



Bohrlehre 499.488
für Büchse unten (557.192)

Gabarit de perçage 499.488
pour coussinet en bas (557.192)

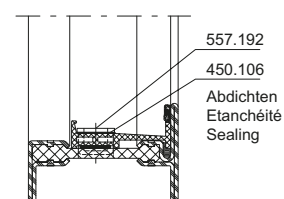
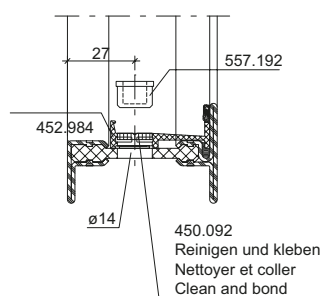
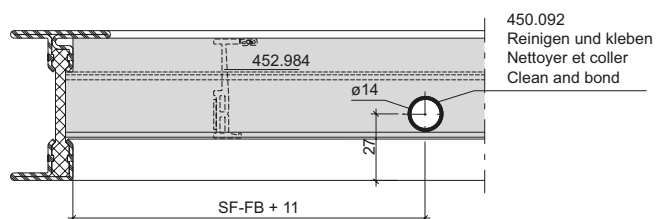
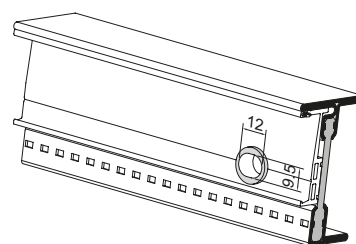
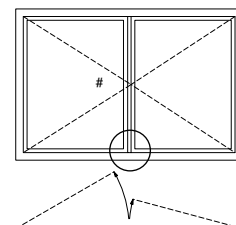
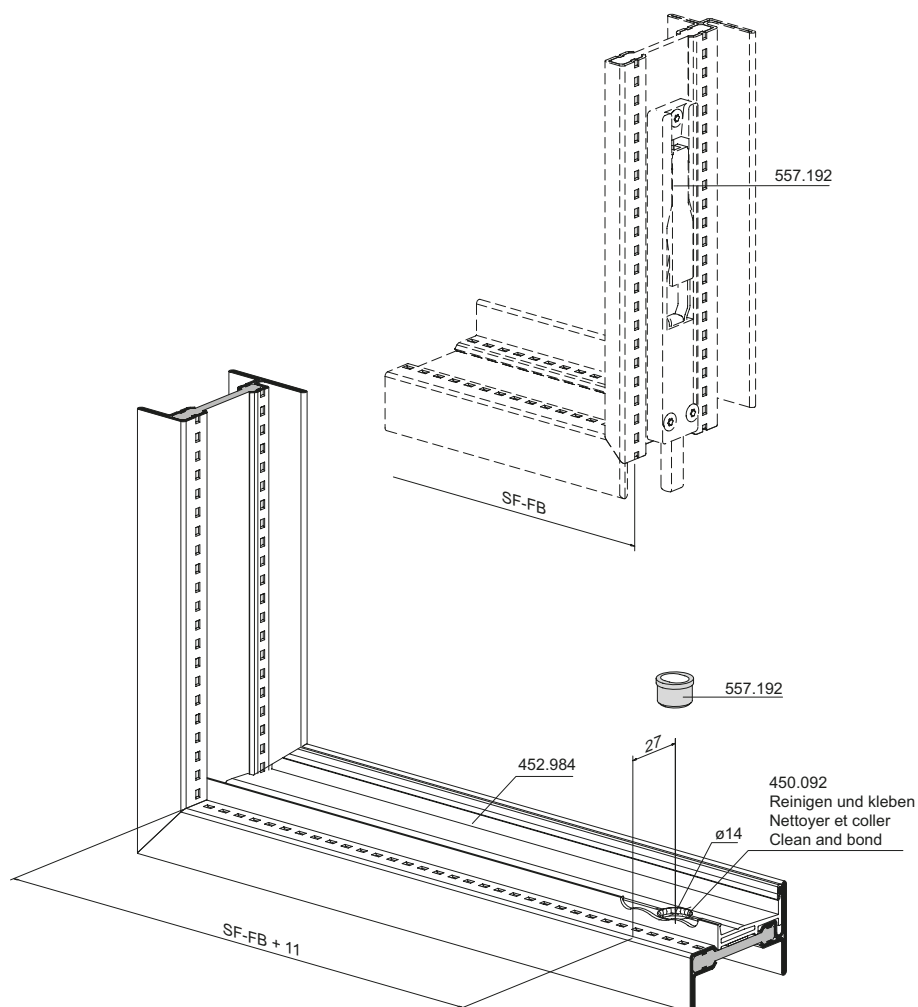
Drilling jig 499.488
for bottom socket (557.192)

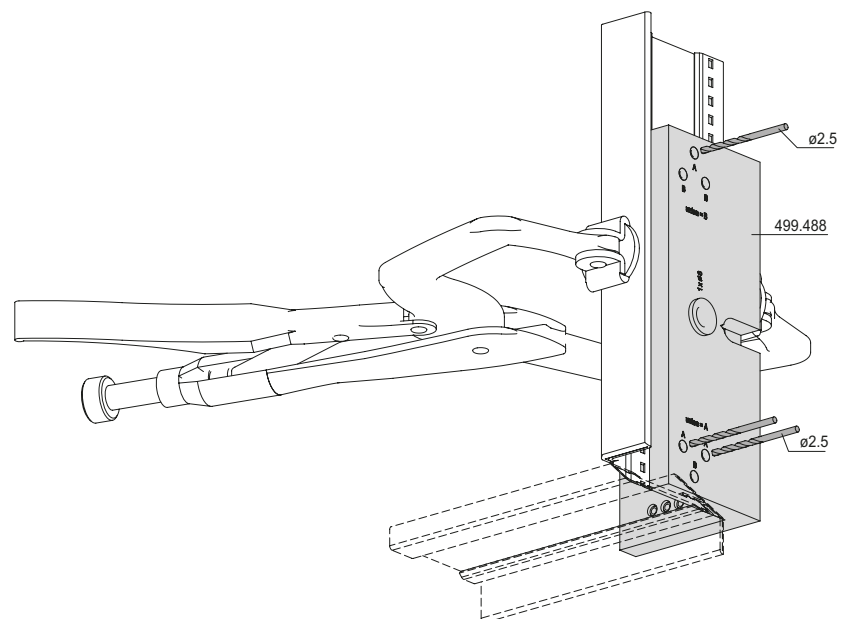
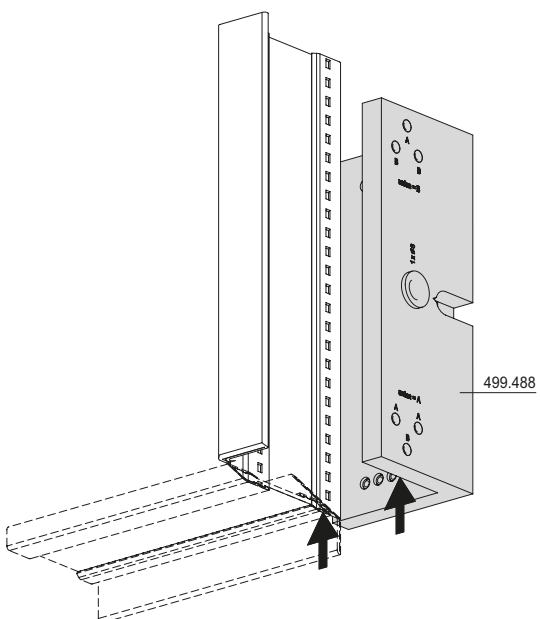
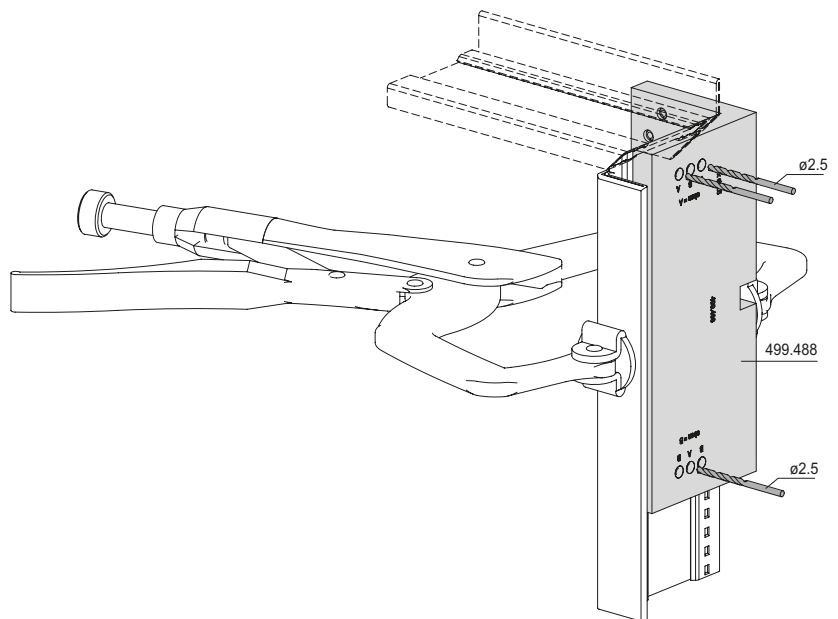
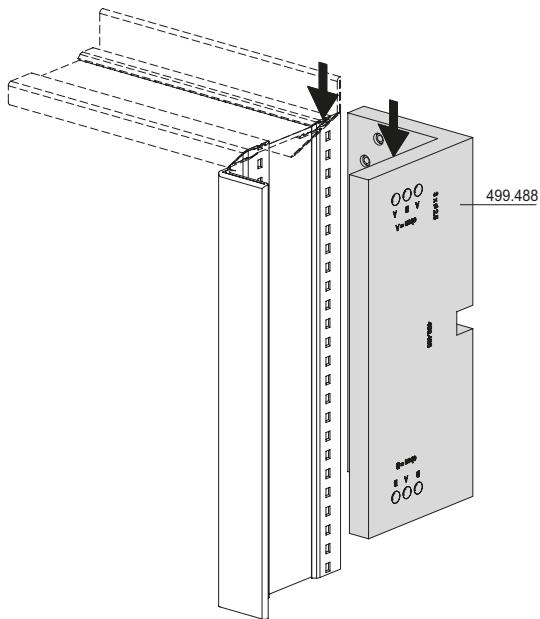
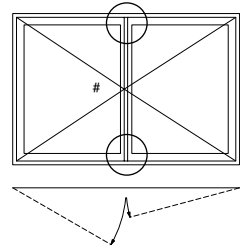


Büchse unten
zu Kantenriegel 557.192

Coussinet en bas
du verrou à bascule 557.192

Bottom socket
for flush bolt 557.192

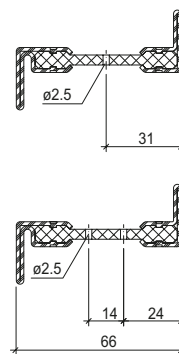
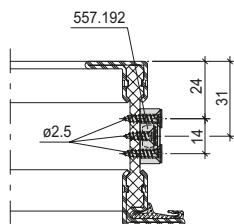
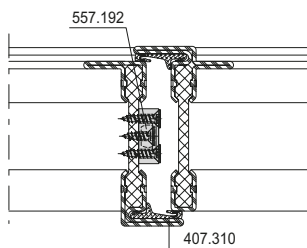
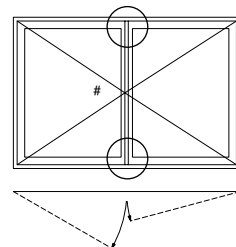
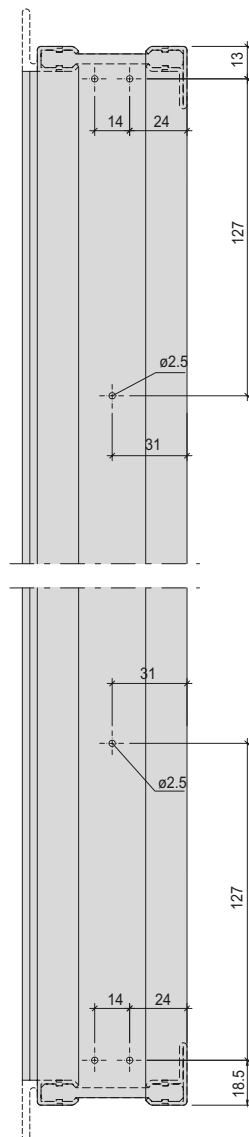
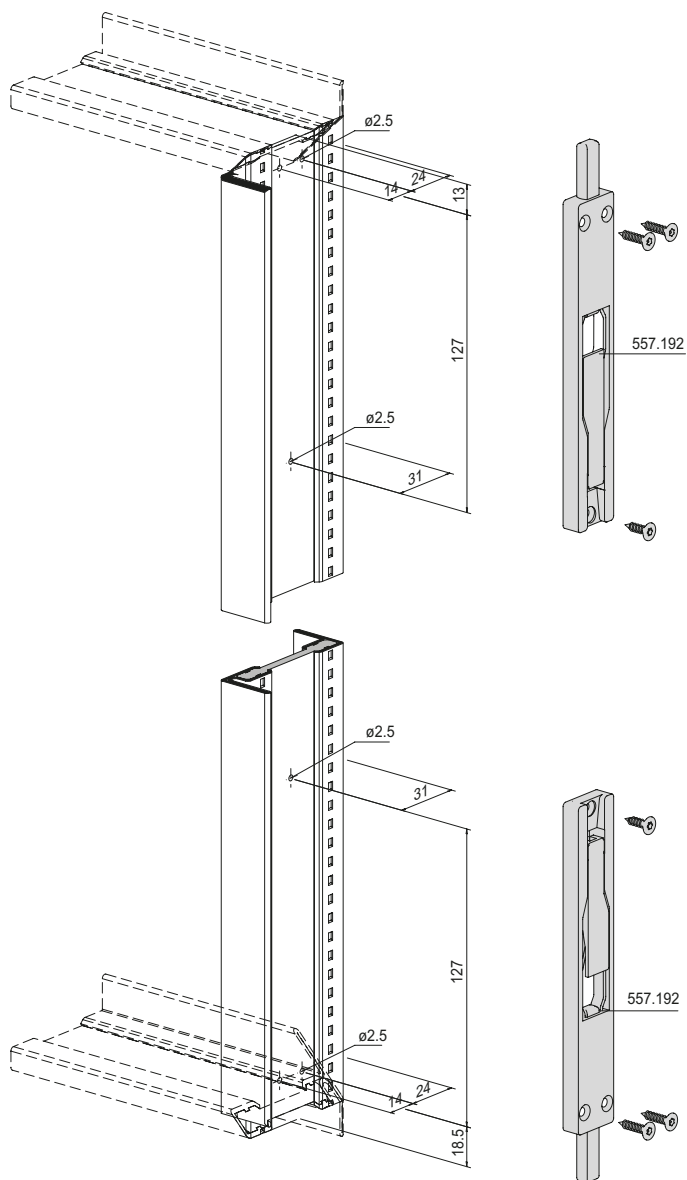




Kantenriegel 557.192
Standflügel

Verrou à bascule 557.192
Vantail semi-fixe

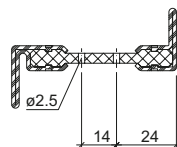
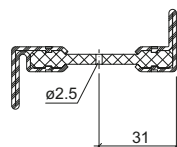
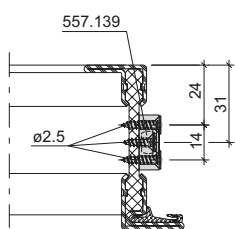
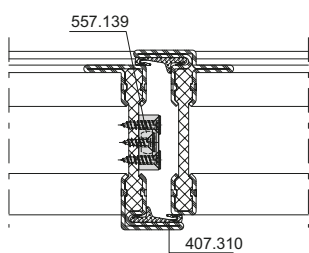
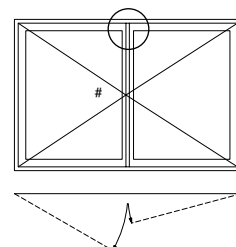
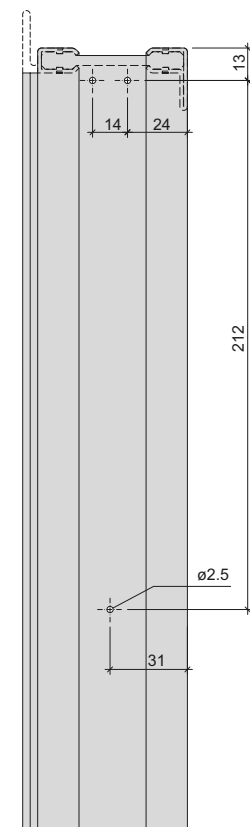
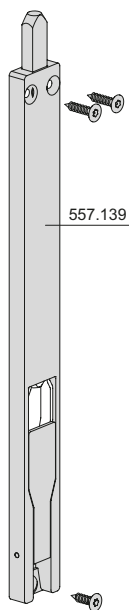
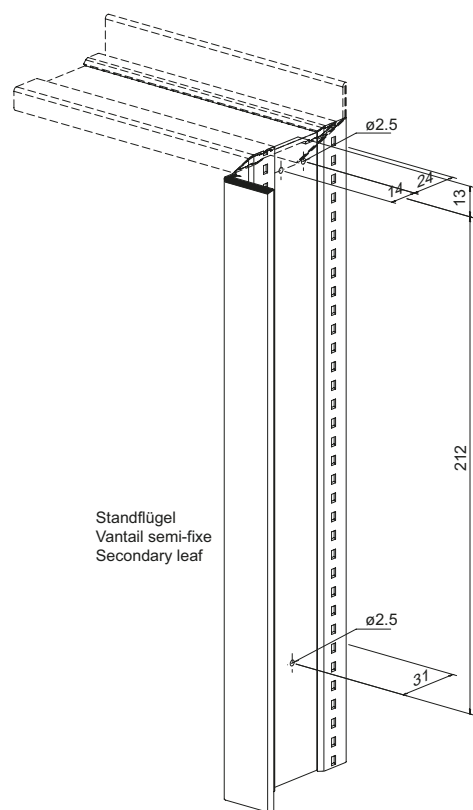
Flush bolt 557.192
Secondary sash



Kantenriegel 557.139
Standflügel

Verrou à bascule 557.139
Vantail semi-fixe

Flush bolt 557.139
Secondary sash



Hinweis: Lage der Verriegelungspunkte anpassen (min. 85 mm)

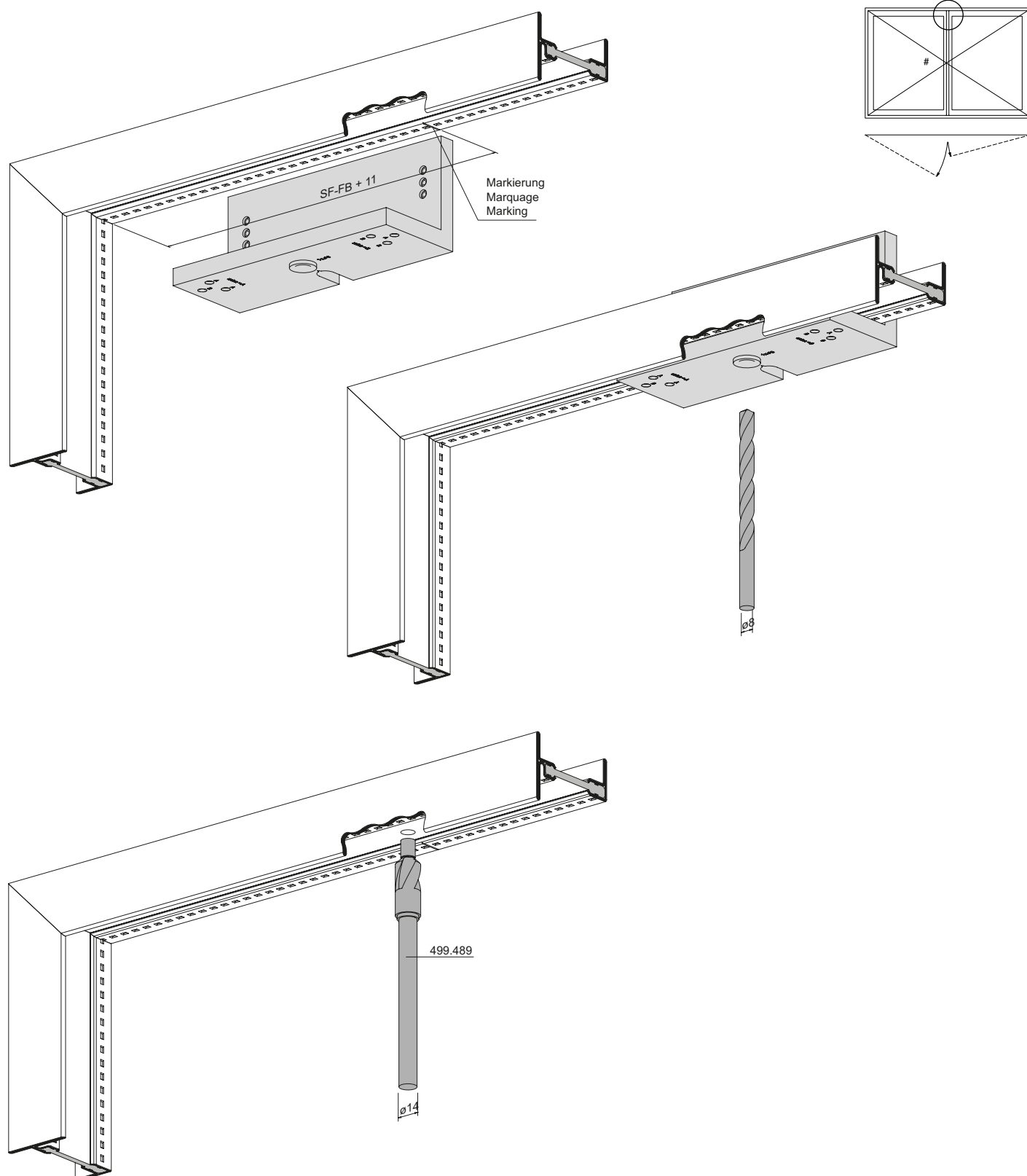
Remarque: Adapter la position des points de verrouillage

Note: Adjust position of the locking points (min. 85 mm)

Bohrlehre 499.488
für Büchse oben (557.192)

Gabarit de perçage 499.488
pour coussinet en haut (557.192)

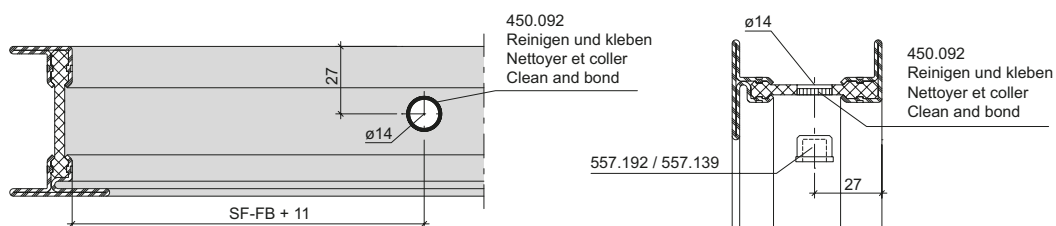
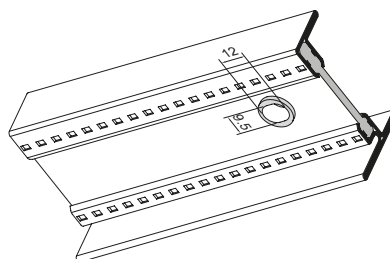
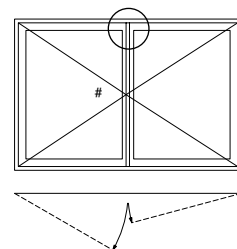
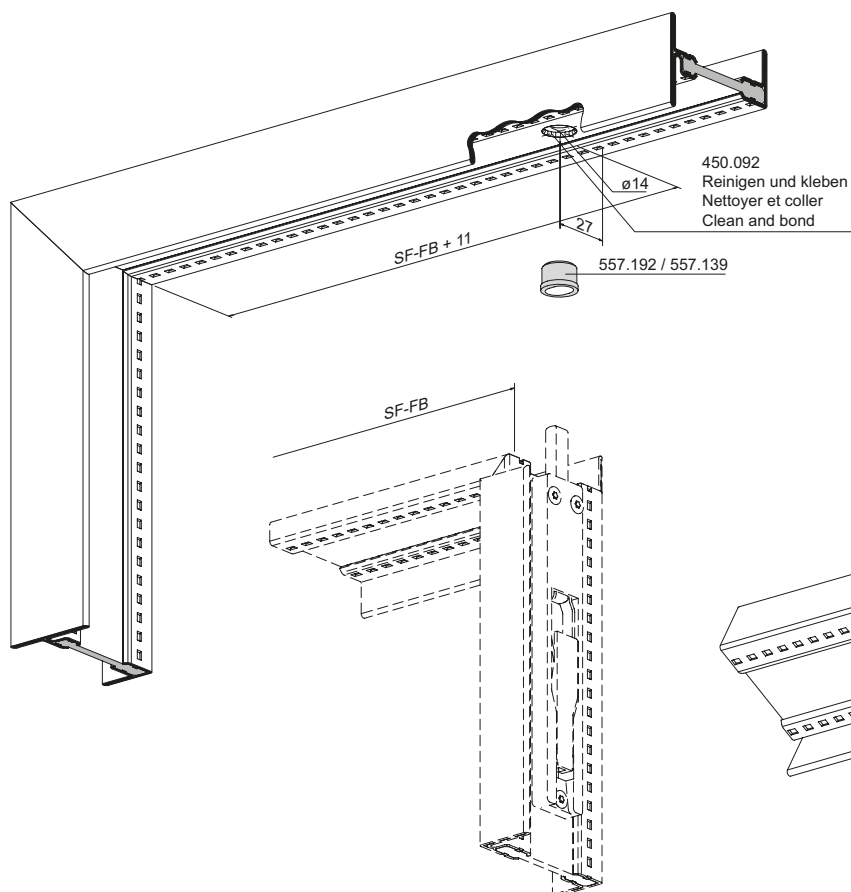
Drilling jig 499.488
for top socket (557.192)



Büchse oben
zu Kantenriegel 557.192 / 557.139

Coussinet en haut du verrou à
bascule 557.192 / 557.139

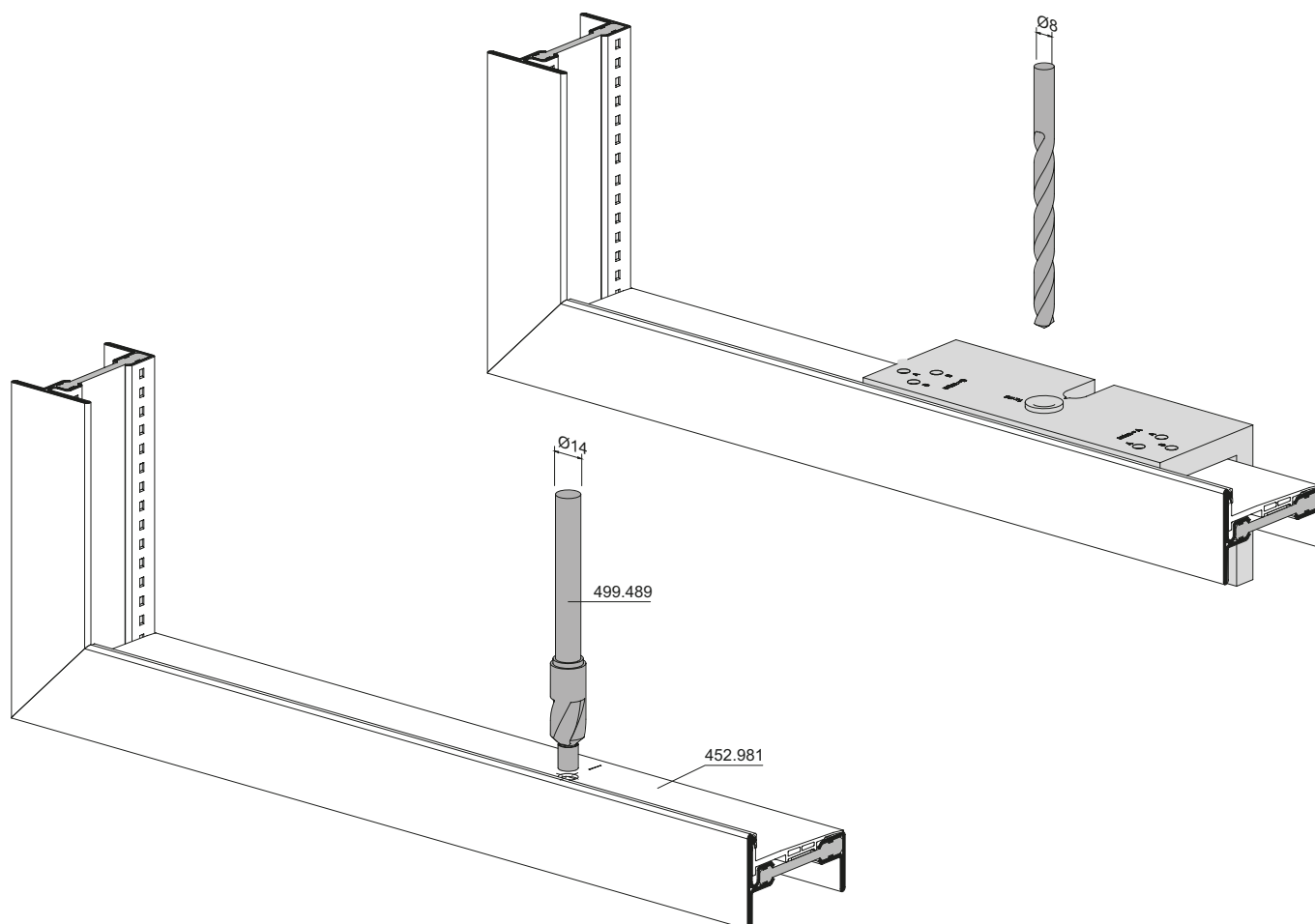
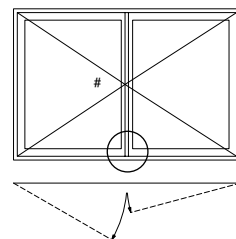
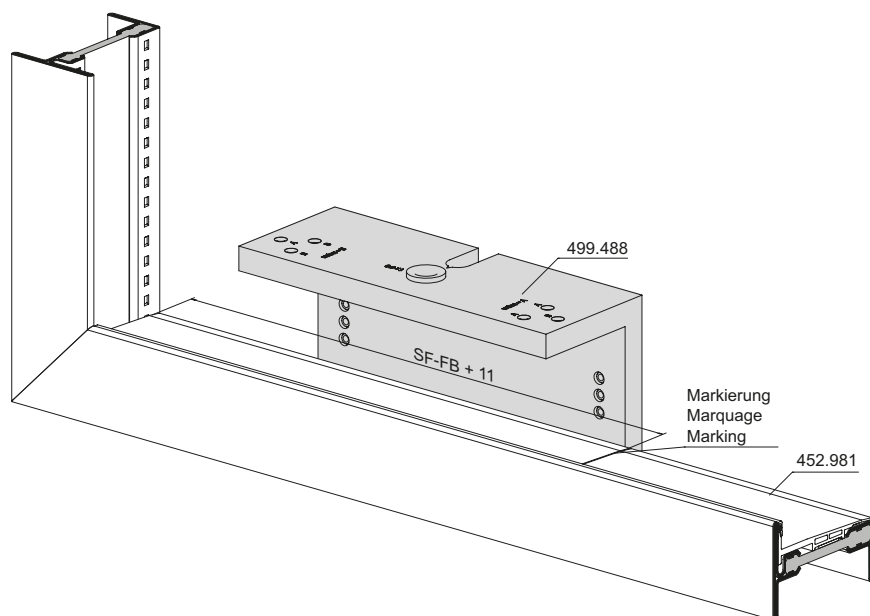
Top socket
for flush bolt 557.192 / 557.139



Bohrlehre 499.488
für Büchse unten (557.192)

Gabarit de perçage 499.488
pour coussinet en bas (557.192)

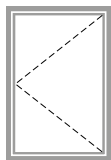
Drilling jig 499.488
for bottom socket (557.192)



Beschlag mit Getriebe
557.279 / 557.280

Ferrure avec crémonne de
tringle 557.279 / 557.280

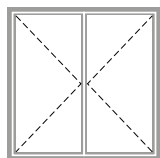
Fitting with mechanism 69
rod 557.279 / 557.280



Drehfenster
nach innen öffnend

Fenêtre à la française
ouvrant vers l'intérieur

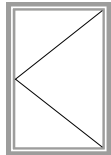
Side-hung window 92
inward opening



Drehfenster
nach innen öffnend

Fenêtre à la française
ouvrant vers l'intérieur

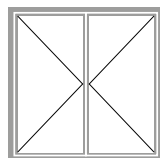
Side-hung window 109
inward opening



Drehfenster
nach aussen öffnend

Fenêtre à la française
ouvrant vers l'extérieur

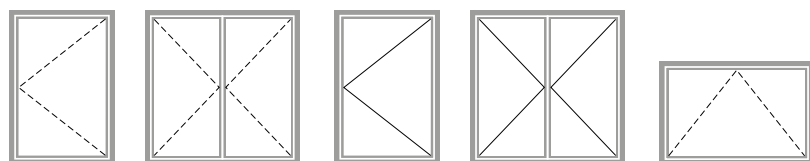
Side-hung window 129
outward opening



Drehfenster
nach aussen öffnend

Fenêtre à la française
ouvrant vers l'extérieur

Side-hung window 145
outward opening



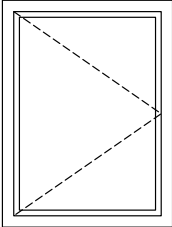
Beschlag mit Getriebe 557.279 / 557.280	Ferrure avec crémonne de tringle 557.279 / 557.280	Fitting with mechanism rod 557.279 / 557.280
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Definition Symbole	Définition des symboles	Definition of symbols	70
Anordnung Verriegelungspunkte	Disposition des points de verrouillage	Arrangement of locking points	72
Einbau Glasleisten-Klipsstück im Bereich CNS-Getriebeführung	Montage du clip de parciose dans la zone du guidage de crémonne CNS	Installation of glazing bead clip in the area of the CNS gearbox guide	76
Vorbereitung Getriebeverlängerung 557.188	Préparation au prolongement de la crémonne 557.188	Preparation of gearbox extension 557.188	77
Dichtung 455.046 ausklinken	Entaille joint 455.046	Notch the weatherstrip 455.046	78
Einbau Getriebeverlängerung 557.188	Montage prolongement de la crémonne 557.188	Installation of gearbox extension 557.188	79
Einbau Getriebe 557.279 / 557.280	Montage crémonne 557.279 / 557.280	Installation of mechanise 557.279 / 557.280	80
Einbau Verbindungsstück Getriebeverlängerung 557.188	Montage pièce de jonction Prolongement de la crémonne 557.188	Installation of connector Gearbox extension 557.188	81
Einbau Beschlag	Montage ferrure	Installation of fitting	82
Einbau Fenstergriff 557.269	Montage poignée de fenêtre 557.269	Installation of window handle 557.269	83
Einbau Fenstergriffe 557.223 - 557.228 557.313 - 557.318	Montage poignées de fenêtre 557.223 - 557.228 557.313 - 557.318	Installation of window handles 557.223 - 557.228 557.313 - 557.318	84
Ziehgriff 550.319	Poignée à tirer 550.319	Pull handle 550.319	85
Schliessbleche 557.309 ausrichten und fixieren	Ajuster et fixer les gâches de fermeture 557.309	Align and fix strike plates 557.309	89
Büchse oben zu Zusatzverriegelung 557.172	Coussinet en haut du verrouillage supplémentaire 557.172	Top socket for additional lock 557.172	90

Definition Symbole

Définition des symboles

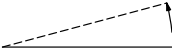
Definition of symbols

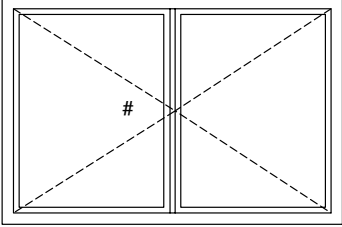


Dreh-Fenster einflügelig
nach innen öffnend

Fenêtre à la française
à un vantail
ouvrant vers l'intérieur

Single-sash side-hung window
inward opening





Dreh-Fenster zweiflügelig
nach innen öffnend

Fenêtre à la française
à deux vantaux
ouvrant vers l'intérieur

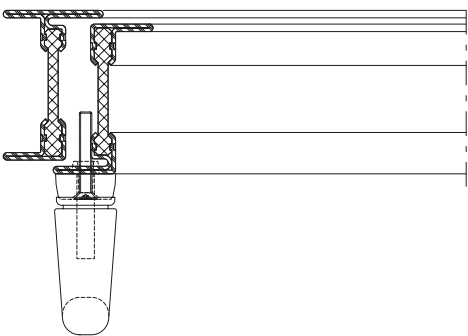
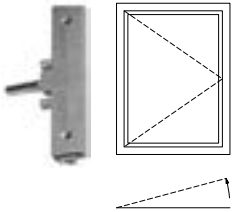
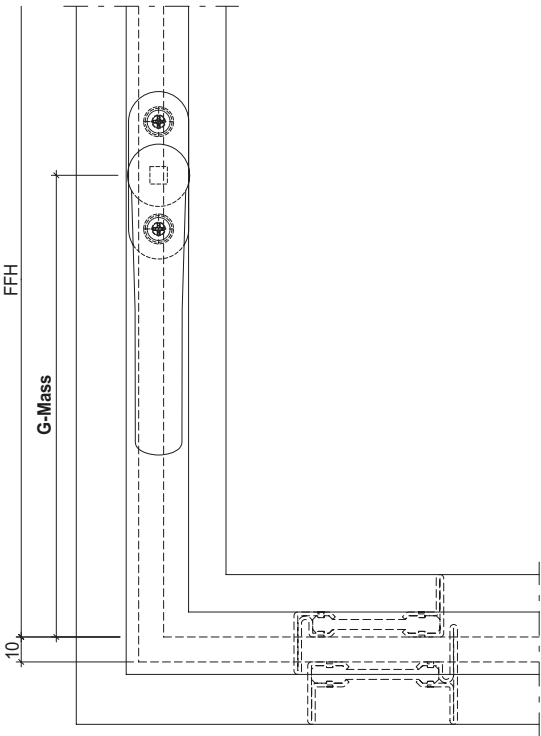
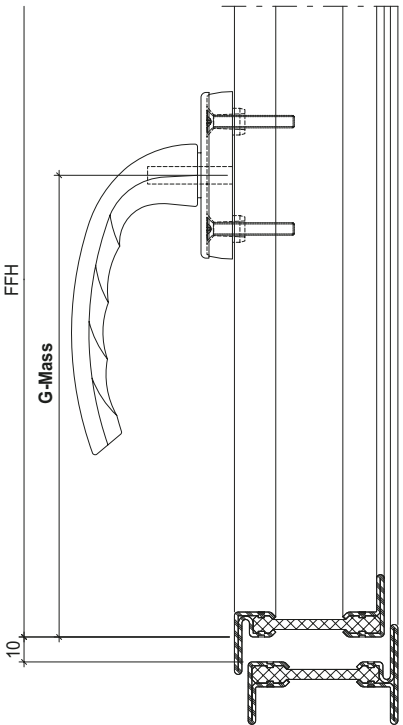
Double-sash side-hung window
inward opening



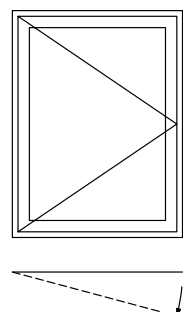
Definition G-Mass
Fenster einflügelig
nach innen öffnend

Définition de la mesure G
Fenêtre à un vantail
ouvrant vers l'intérieur

Definition of G measurement
Single-sash window
inward opening



Definition Symbole

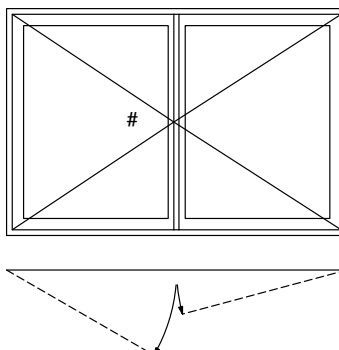


Dreh-Fenster einflügelig
 nach aussen öffnend

Fenêtre à la française
à un vantail
 ouvrant vers l'extérieur

Single-sash side-hung window
 outward opening

Définition des symboles



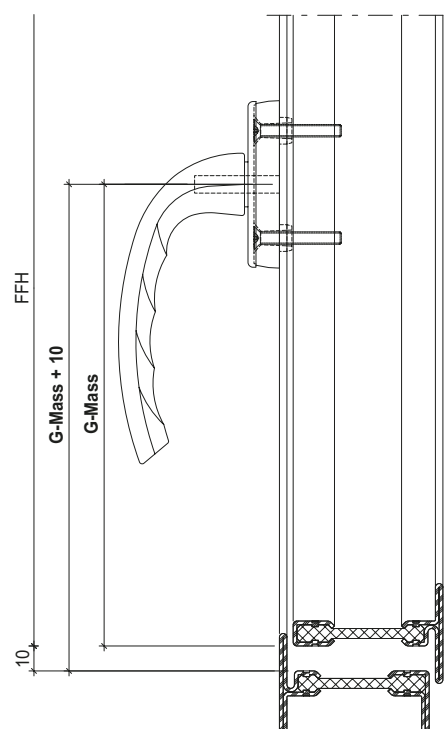
Dreh-Fenster zweiflügelig
 nach aussen öffnend

Fenêtre à la française
à deux vantaux
 ouvrant vers l'extérieur

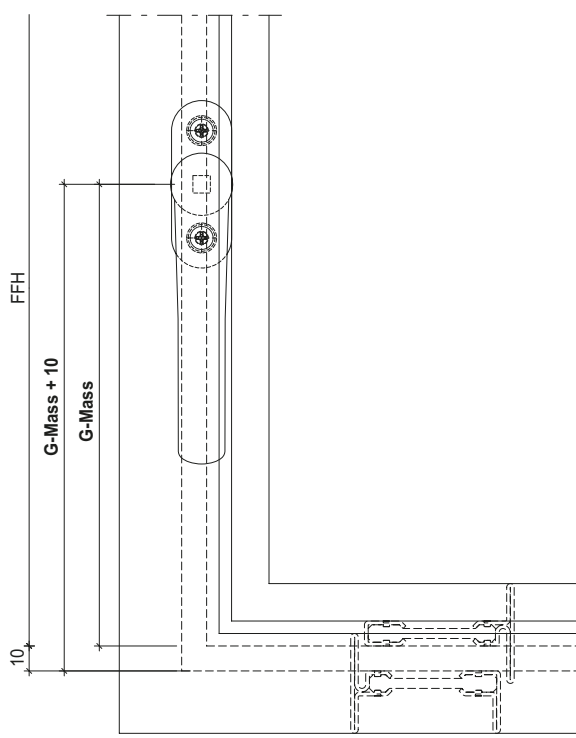
Double-sash side-hung window
 outward opening

Definition of symbols

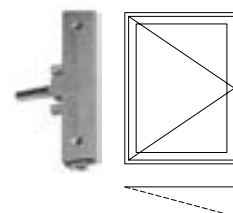
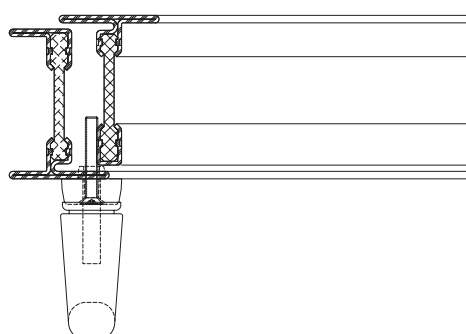
Definition G-Mass
Fenster einflügelig
nach aussen öffnend



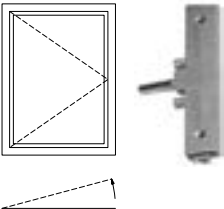
Définition de la mesure G
Fenêtre à un vantail
ouvrant vers l'extérieur



Definition of G measurement
Single-sash window
outward opening

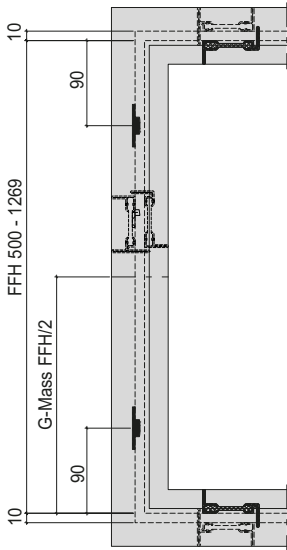


Anordnung Verriegelungspunkte
Fenster einflügelig
nach innen öffnend

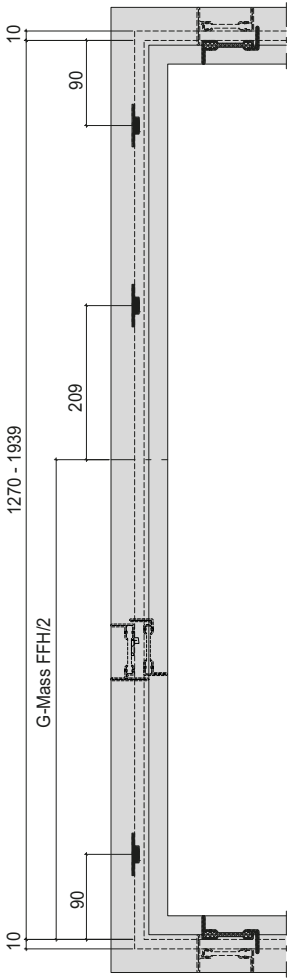


Disposition des points de verrouillage
Fenêtre à un vantail
ouvrant vers l'intérieur

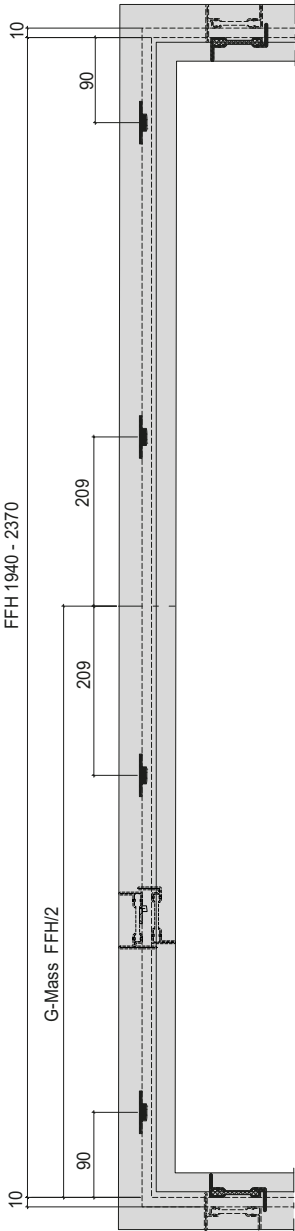
Arrangement of locking points
Single-sash window
inward opening



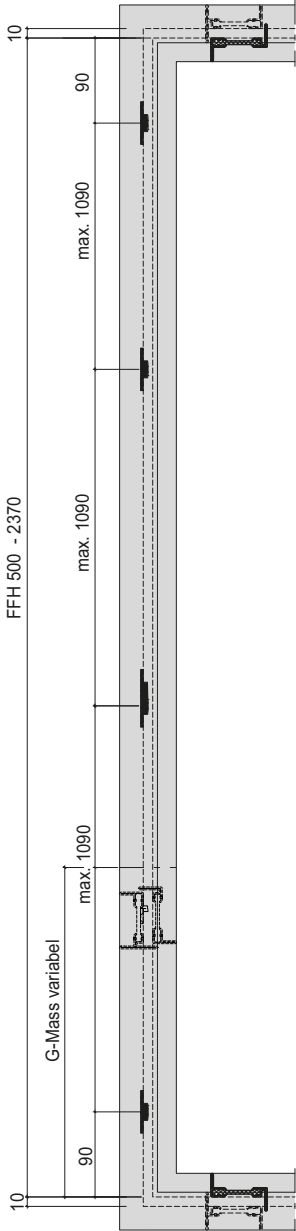
FFH 500 - 1269 mm
G-Mass FFH/2



FFH 1270 - 1939 mm
G-Mass FFH/2



FFH 1940 - 2370 mm
G-Mass FFH/2



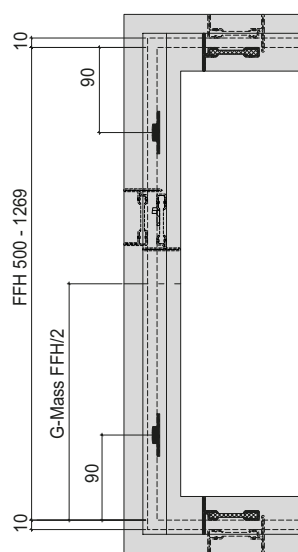
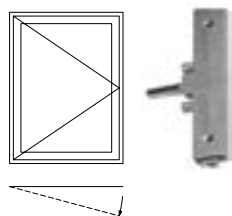
FFH 500 - 2370 mm
freies G-Mass (min. 250 mm)
Mesure G libre (min. 250 mm)
unspecified G measurement
(min. 250 mm)

Griffsitz mittig Logement de poignée au centre Handle position in centre	FFH mm		
	500-1269	1270-1939	1940-2370
557.279/557.280	1	1	1
557.188	2	3	4
557.309 (VE/UV/PU = 5 Stk.)	2 (1)	3 (1)	4 (1)

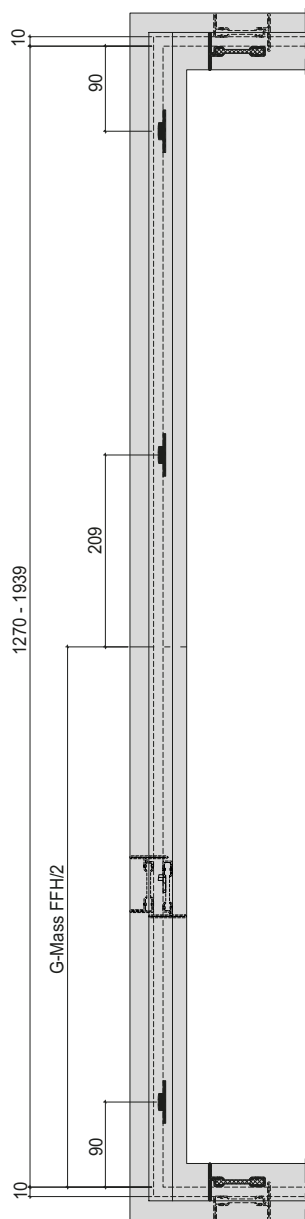
Anordnung Verriegelungspunkte
Fenster einflügelig
nach aussen öffnend

Disposition des points de verrouillage
Fenêtre à un vantail
ouvrant vers l'extérieur

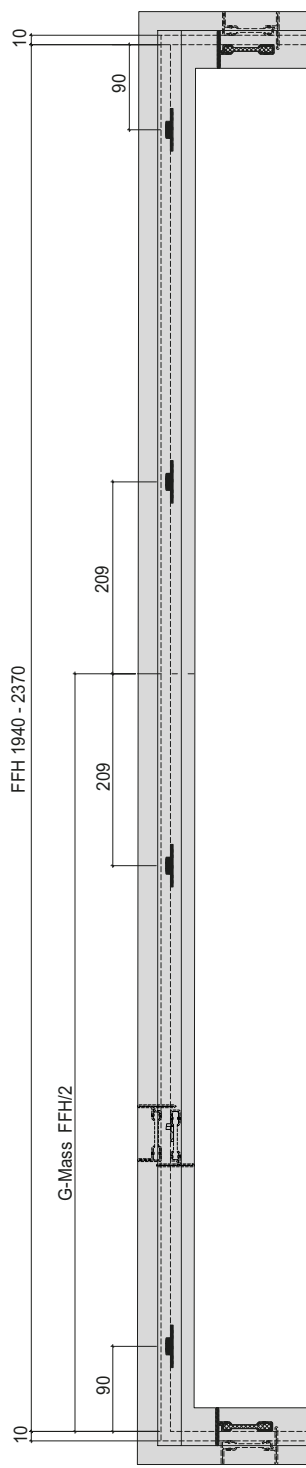
Arrangement of locking points
Single-sash window
outward opening



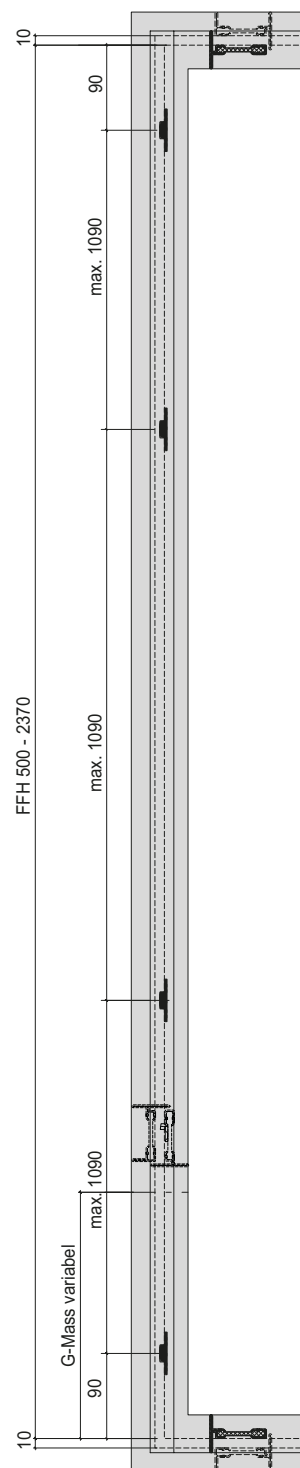
FFH 500 - 1269 mm
 G-Mass FFH/2



FFH 1270 - 1939 mm
 G-Mass FFH/2

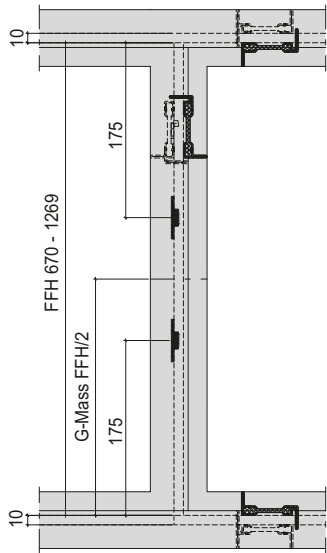
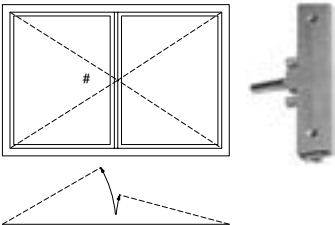


FFH 1940 - 2370 mm
 G-Mass FFH/2



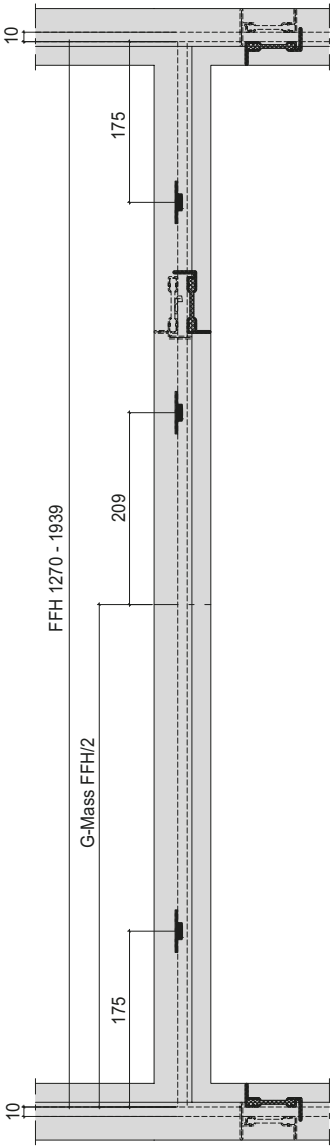
FFH 500 - 2370 mm
 freies G-Mass (min. 250 mm)
 Mesure G libre (min. 250 mm)
 unspecified G measurement
 (min. 250 mm)

Anordnung Verriegelungspunkte
Fenster zweiflügelig
nach innen öffnend



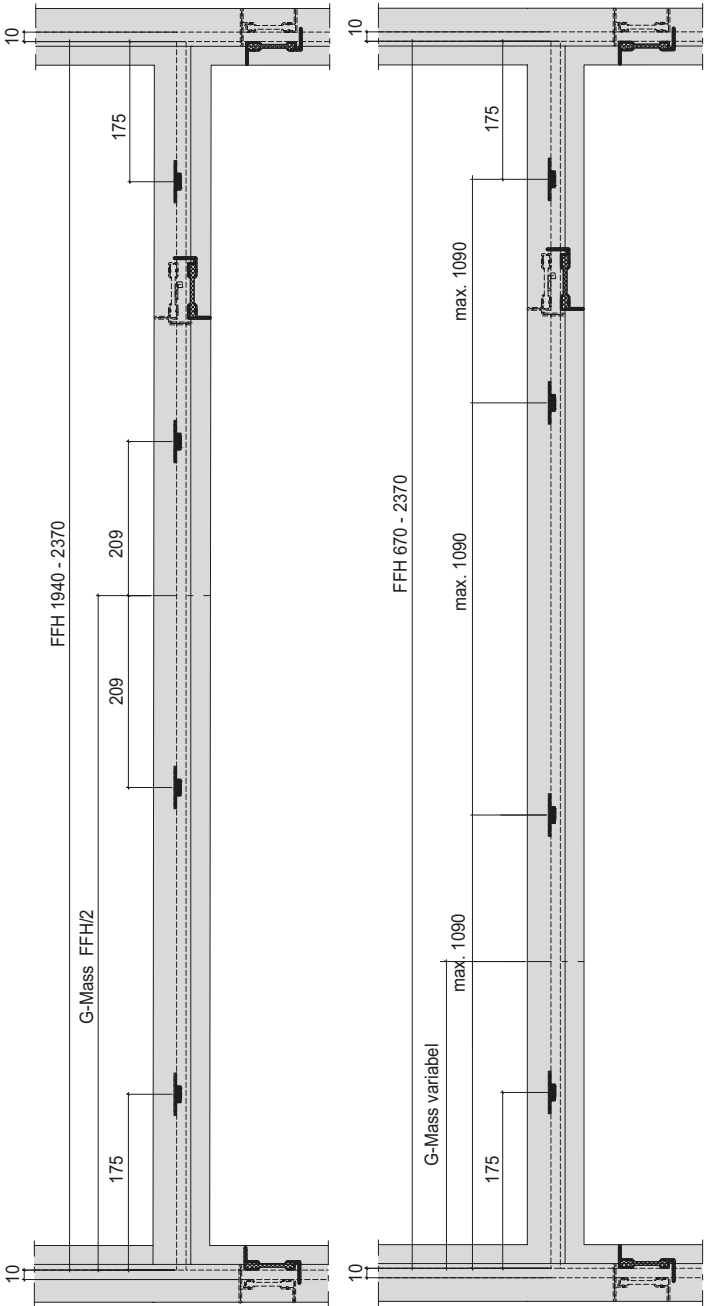
FFH 670 - 1269 mm
G-Mass FFH/2

Disposition des points de verrouillage
Fenêtre à deux vantaux
ouvrant vers l'intérieur

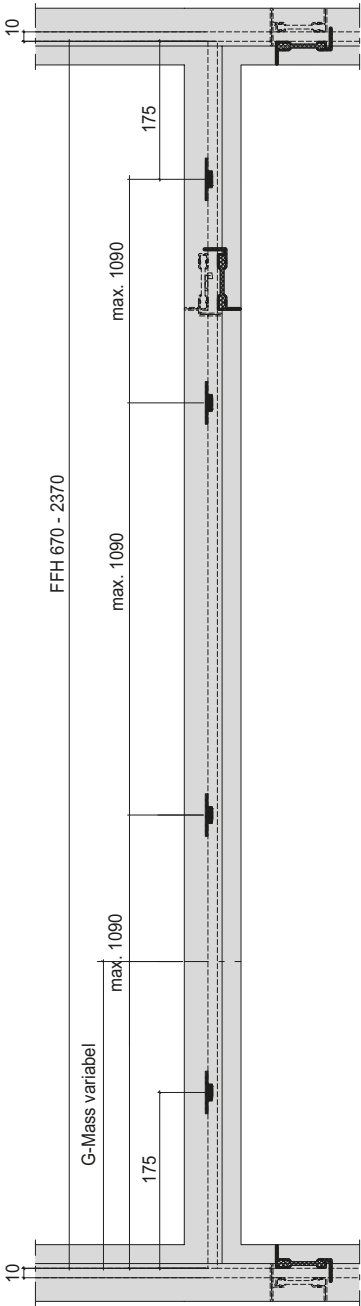


FFH 1270 - 1939 mm
G-Mass FFH/2

Arrangement of locking points
Double-sash window
inward opening



FFH 1940 - 2370 mm
G-Mass FFH/2



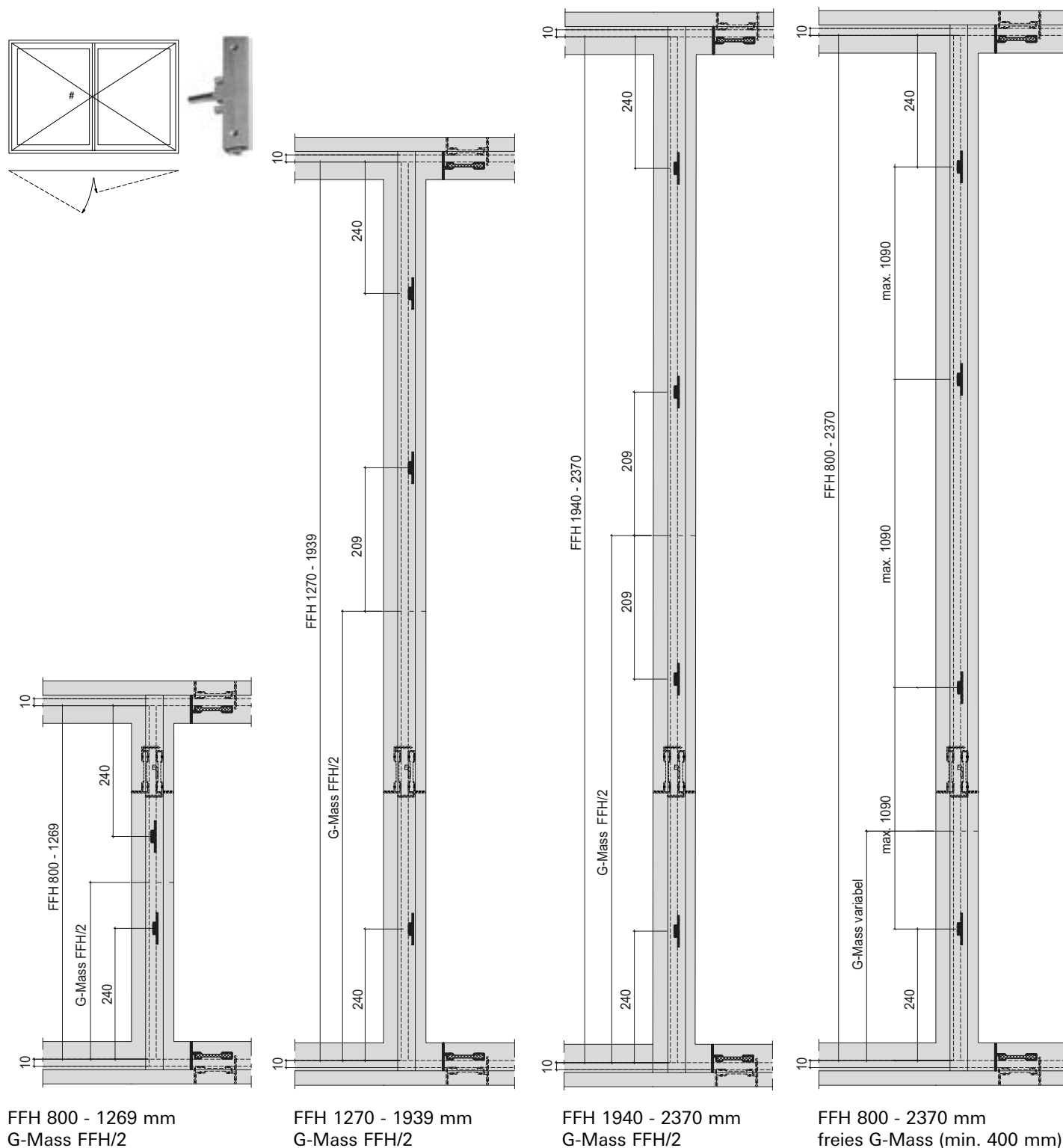
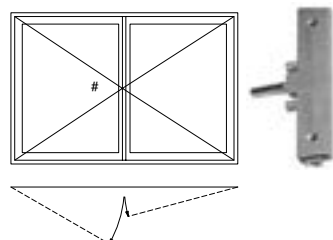
FFH 670 - 2370 mm
freies G-Mass (min. 335 mm)
Mesure G libre (min. 335 mm)
unspecified G measurement
(min. 335 mm)

Griffsitz mittig Logement de poignée au centre Handle position in centre	FFH mm		
	670-1269	1270-1939	1940-2370
557.279/557.280	1	1	1
557.188	2	3	4
557.309 (VE/UV/PU = 5 Stk.)	2 (1)	3 (1)	4 (1)

Anordnung Verriegelungspunkte
Fenster zweiflügelig
nach aussen öffnend

Disposition des points de verrouillage
Fenêtre à deux vantaux
ouvrant vers l'extérieur

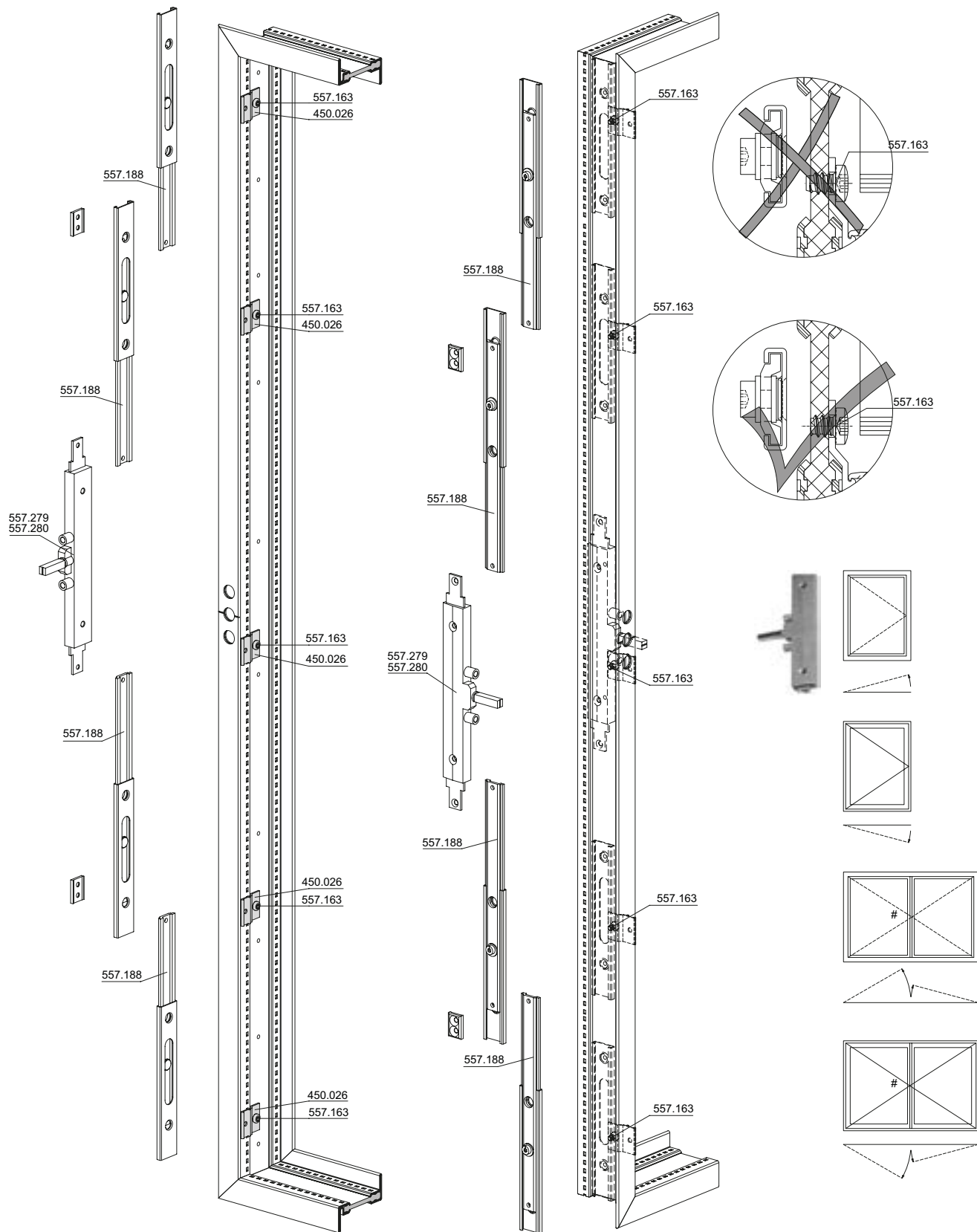
Arrangement of locking points
Double-sash window
outward opening



**Einbau Glasleisten-Klipsstück
 im Bereich CNS-Getriebeführung**

**Montage du clip de parciose dans la
 zone du guidage de crémonne CNS**

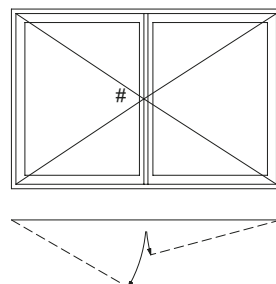
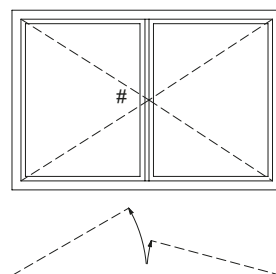
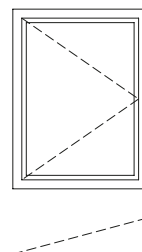
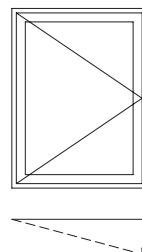
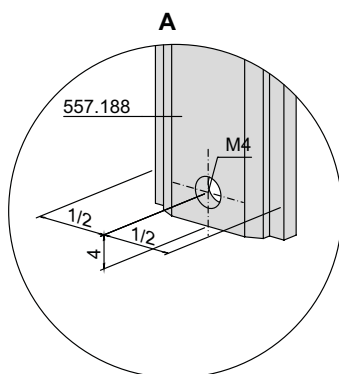
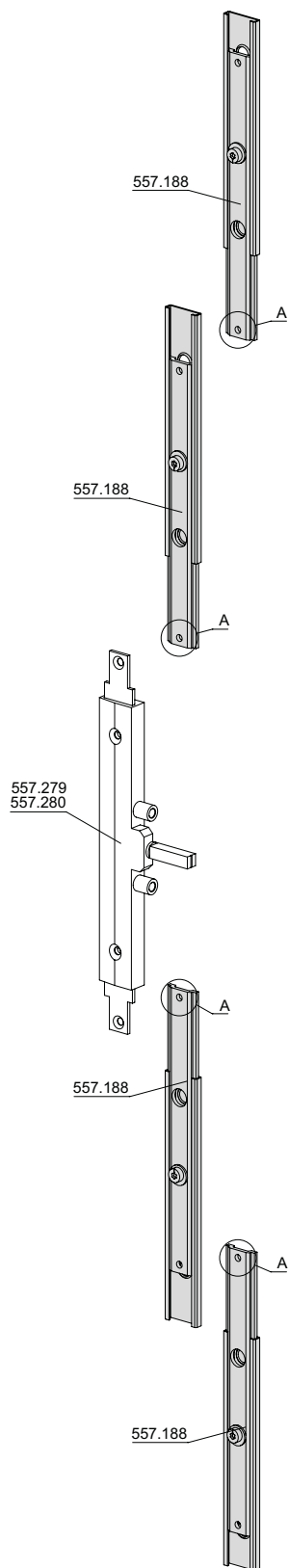
**Installation of glazing bead clip in
 the area of the CNS gearbox guide**



Vorbereitung
Getriebeverlängerung 557.188

Préparation au prolongement de la
crémone 557.188

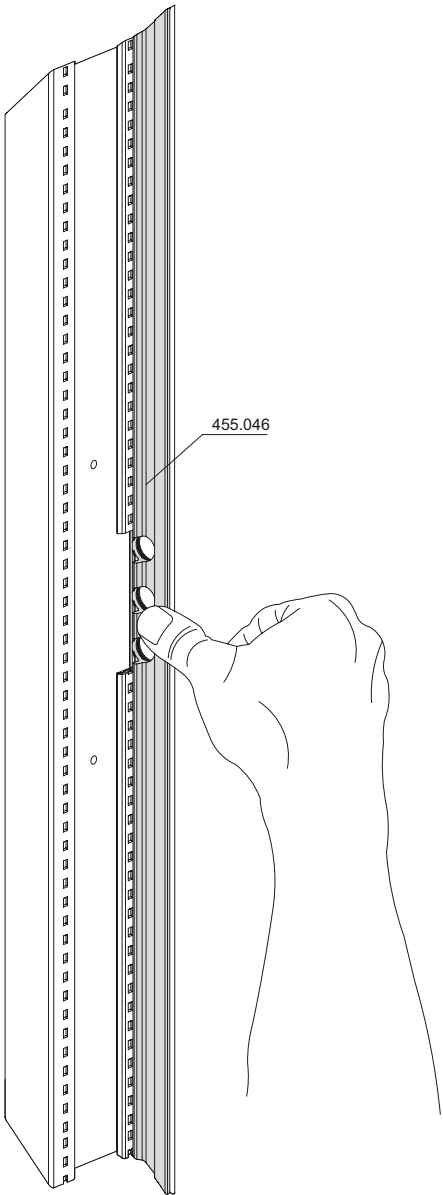
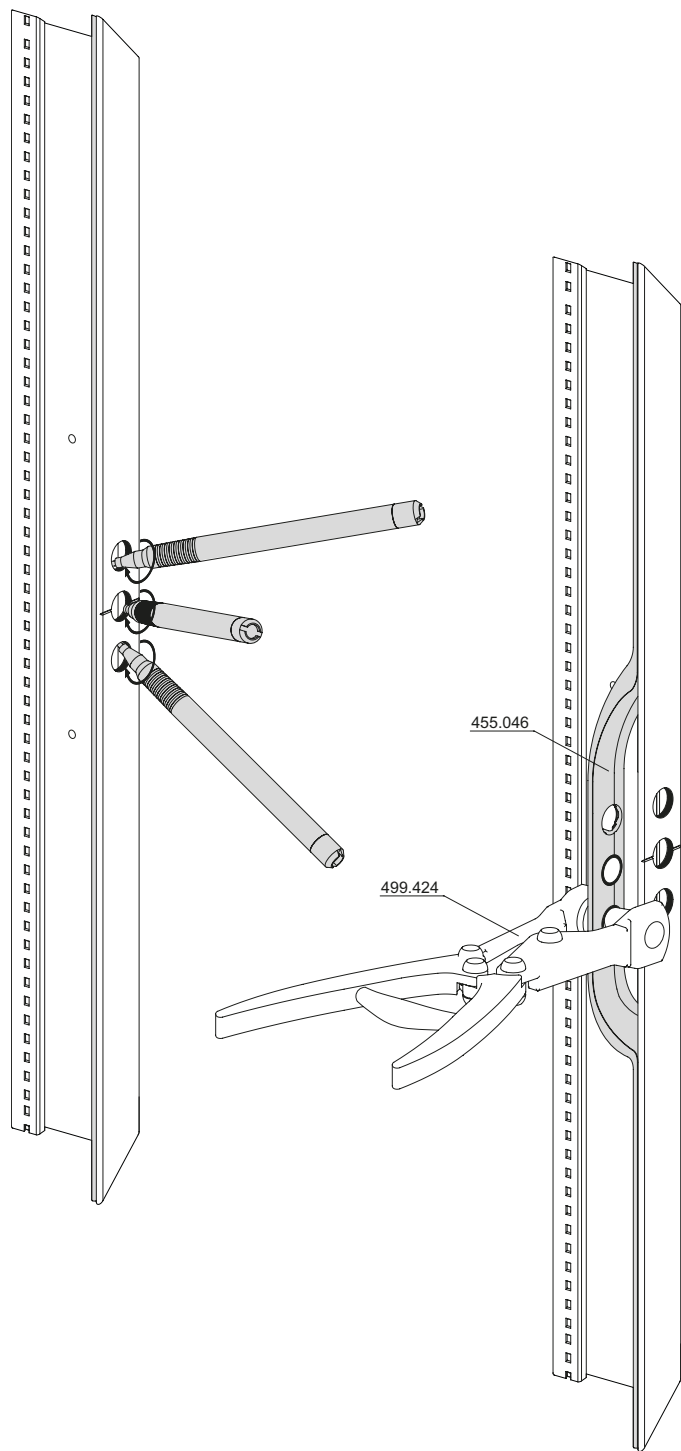
Preparation of
gearbox extension 557.188



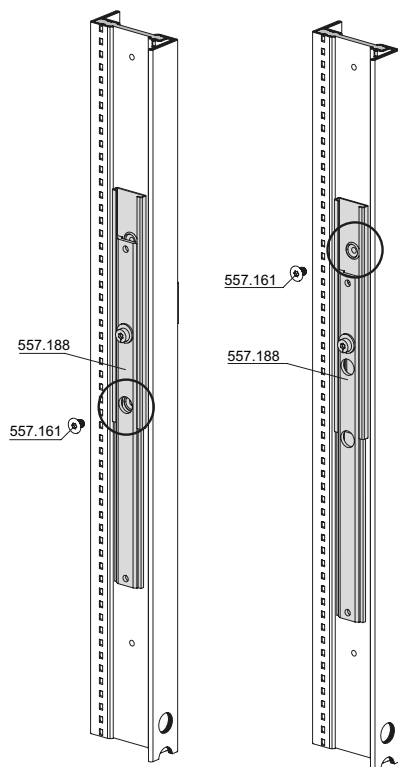
Dichtung 455.046 ausklinken

Entaille joint 455.046

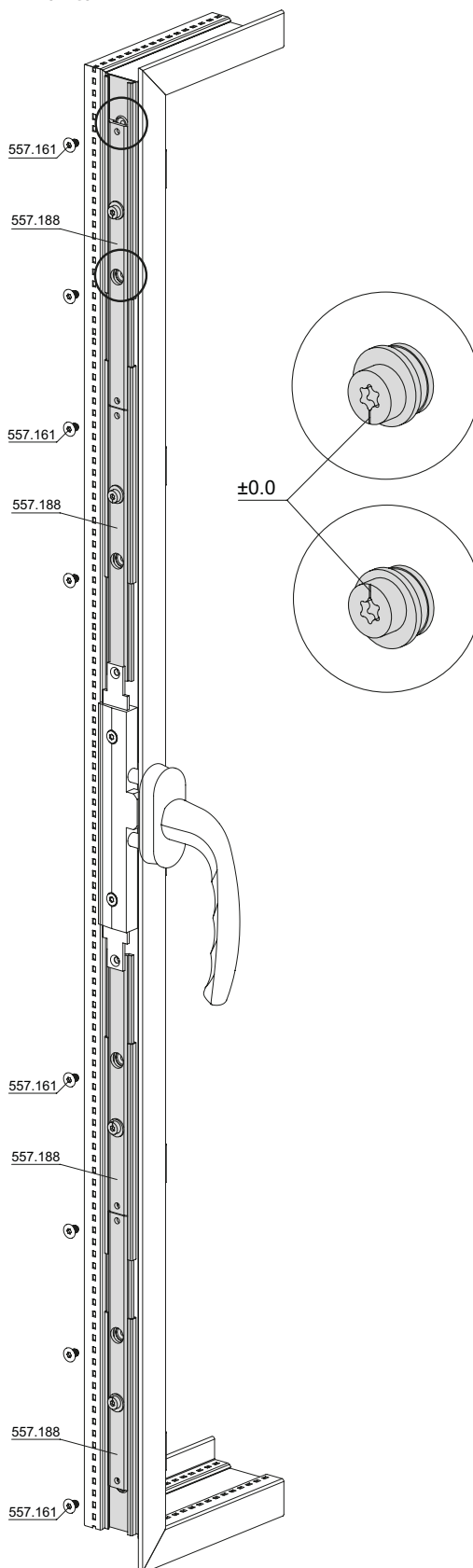
Notch the weatherstrip 455.046



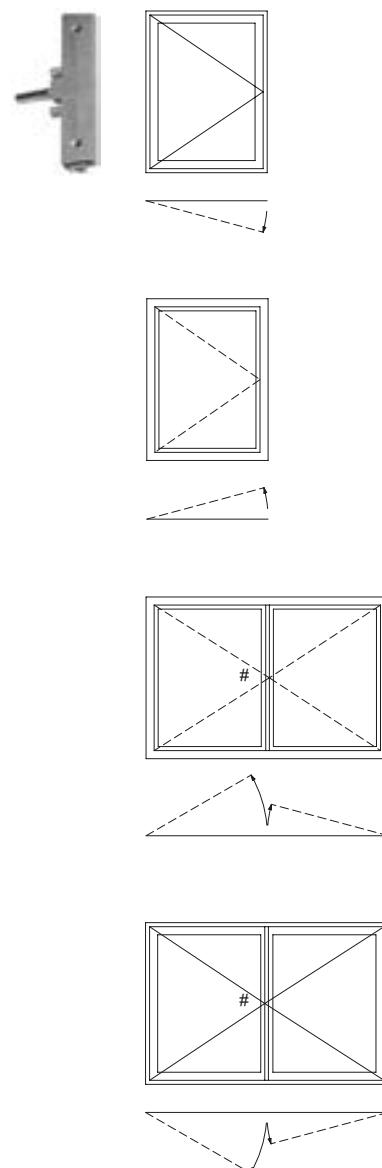
Einbau
Getriebeverlängerung 557.188
Flügel



Montage prolongement de la
crémone 557.188
Vantail



Installation of
gearbox extension 557.188
Sash

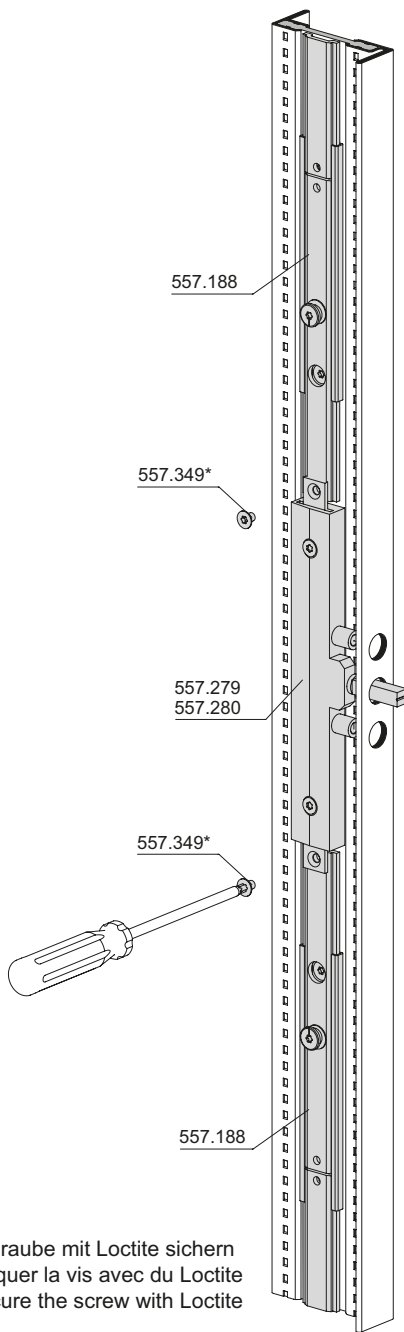
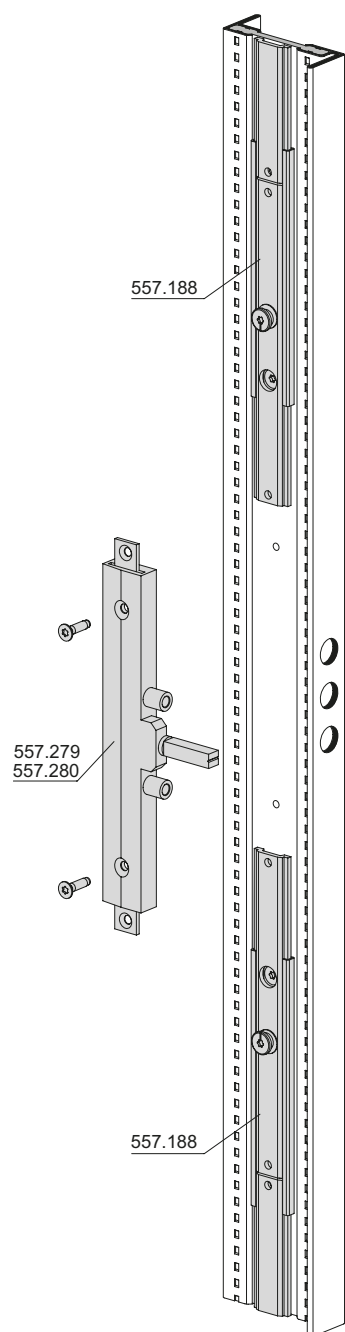


Verstellmöglichkeit $\pm 0,65$ mm
 Plage de réglage $\pm 0,65$ mm
 Range of adjustment $\pm 0,65$ mm

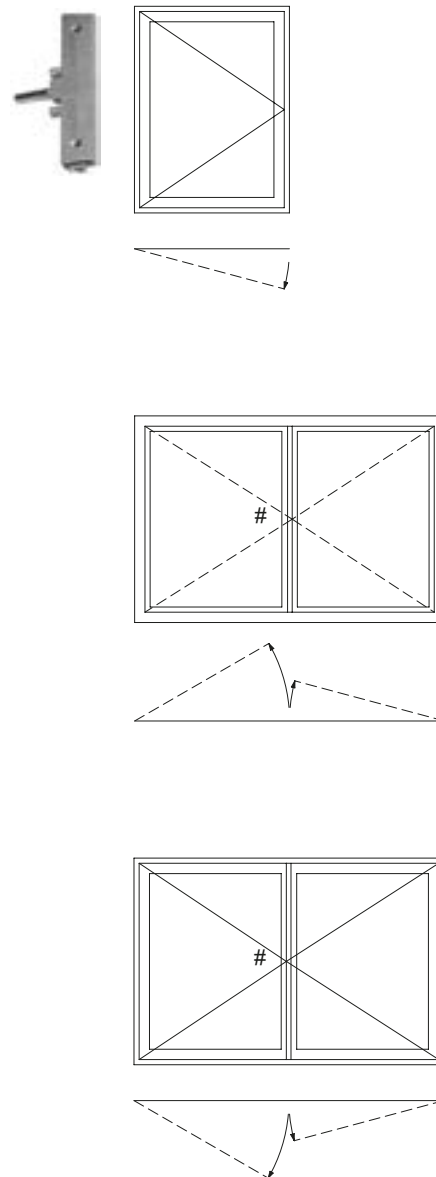
Einbau Getriebe
557.279 / 557.280

Montage crémonne
557.279 / 557.280

Installation of mechanise
557.279 / 557.280



* Schraube mit Loctite sichern
 * Bloquer la vis avec du Loctite
 * Secure the screw with Loctite



Dichtung 455.046
 ausklinken
 (siehe Seite 78)

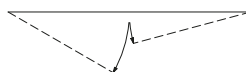
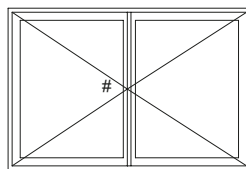
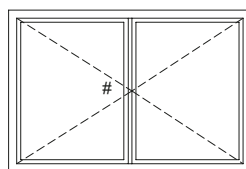
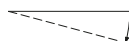
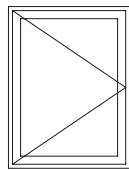
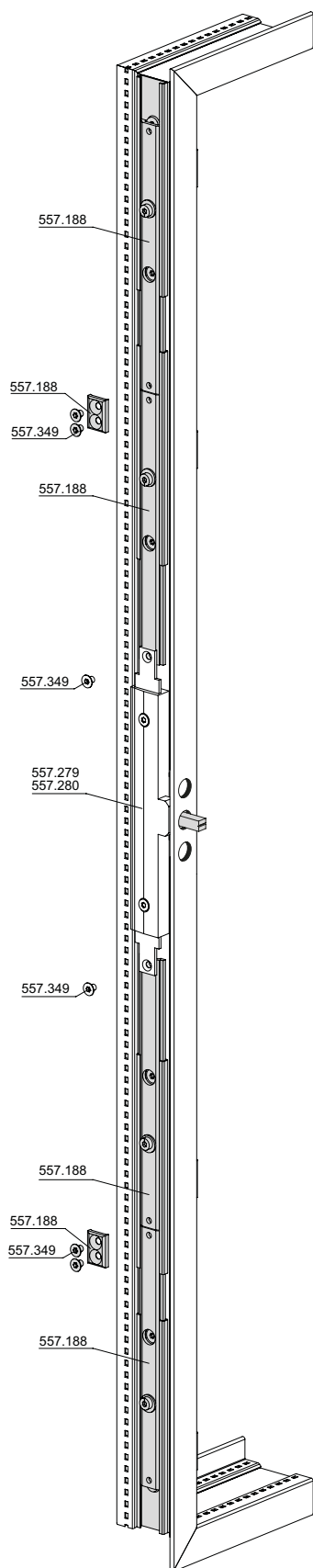
Entaille joint 455.046
 (voir page 78)

Notch the weatherstrip
 455.046 (see page 78)

Einbau Verbindungsstück
Getriebeverlängerung 557.188

Montage pièce de jonction
Prolongement de la crémone 557.188

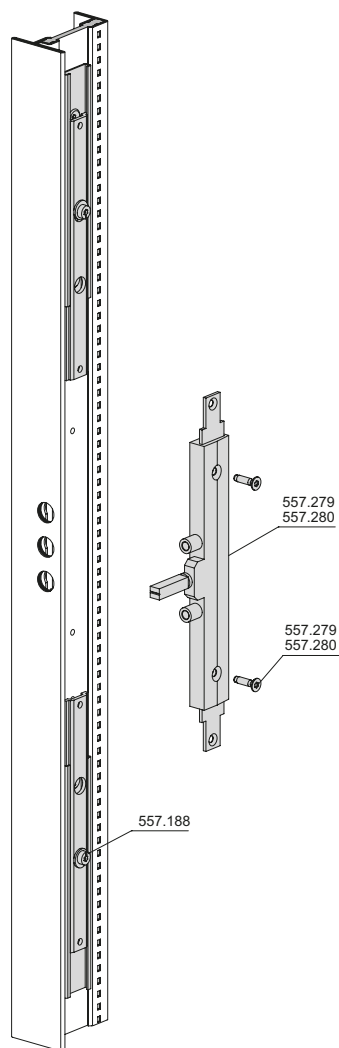
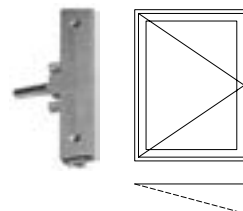
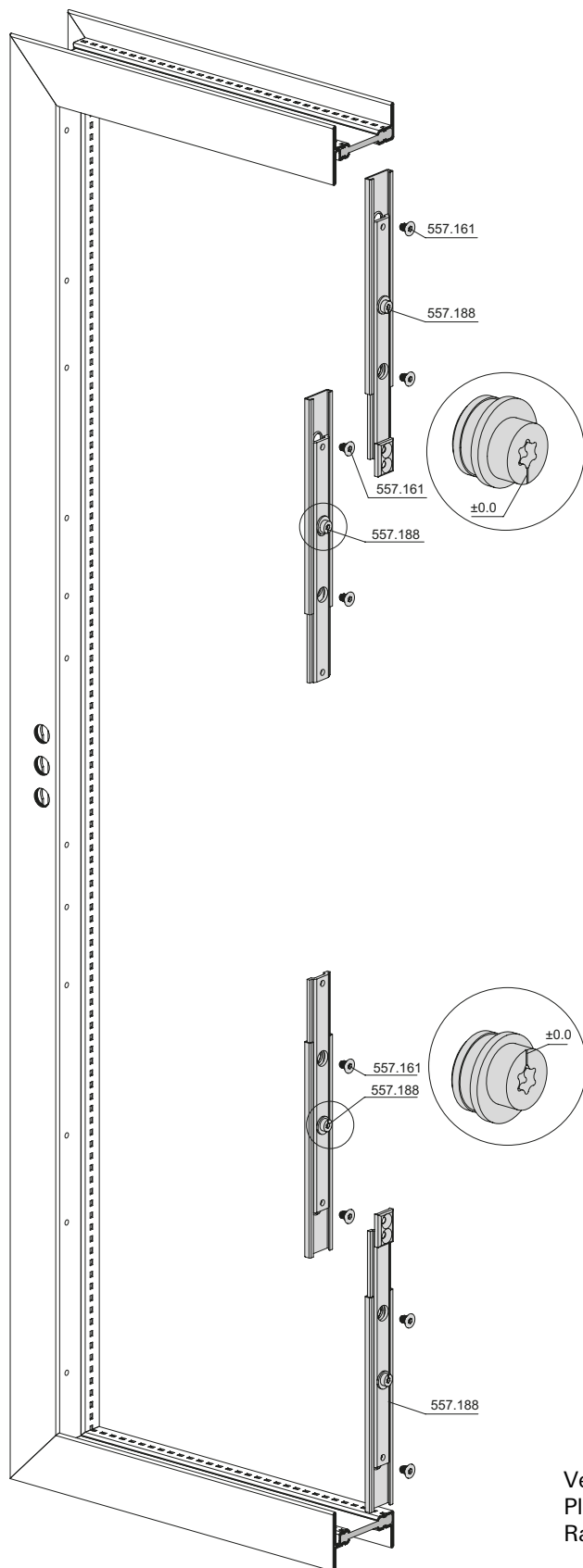
Installation of connector
Gearbox extension 557.188



Einbau Beschlag
Rahmen

Montage ferrure
Cadre

Installation of fitting
Frame

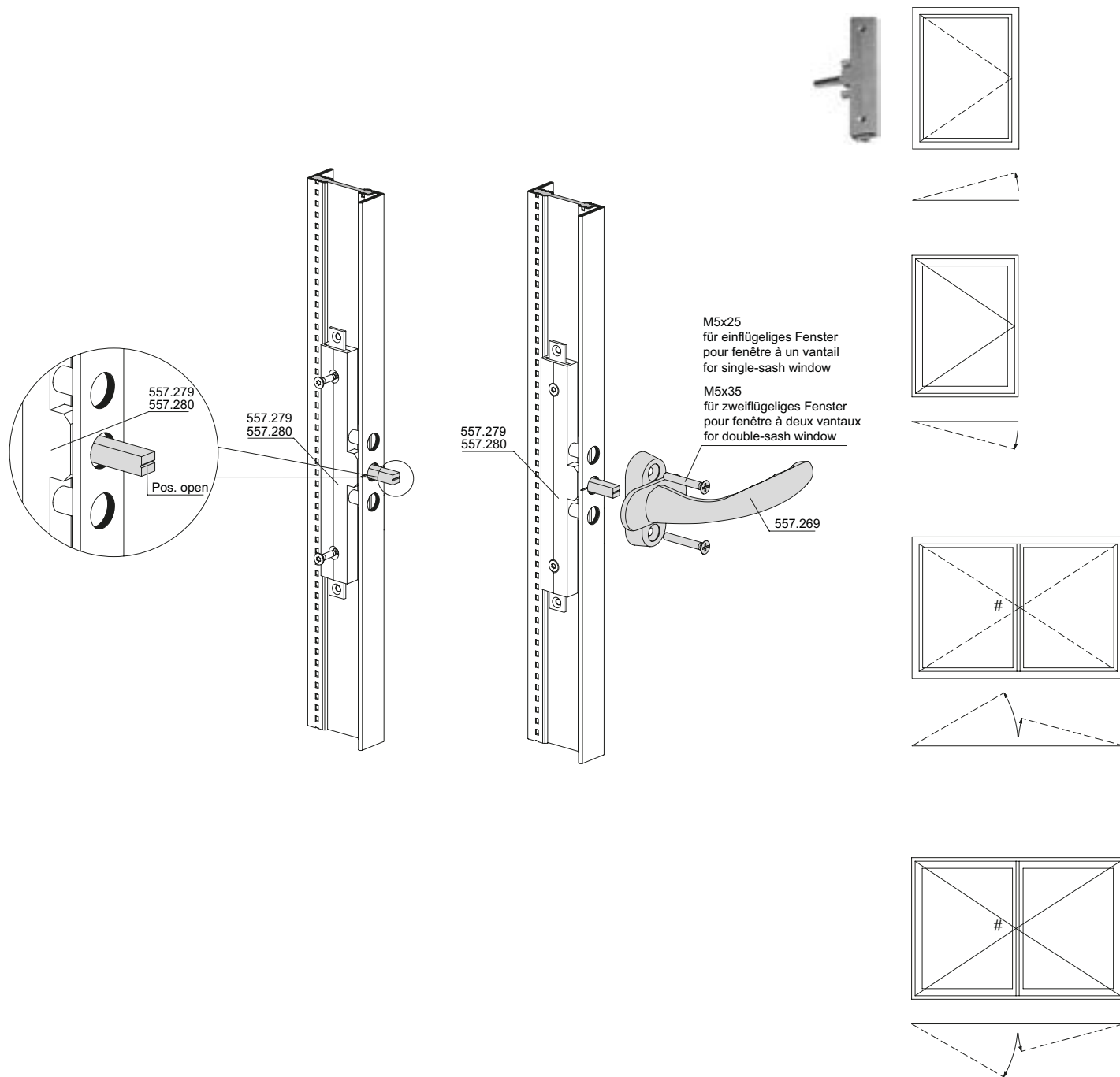


Verstellmöglichkeit $\pm 0,65$ mm
Plage de réglage $\pm 0,65$ mm
Range of adjustment $\pm 0,65$ mm

Einbau Fenstergriff 557.269

Montage poignée de fenêtre 557.269

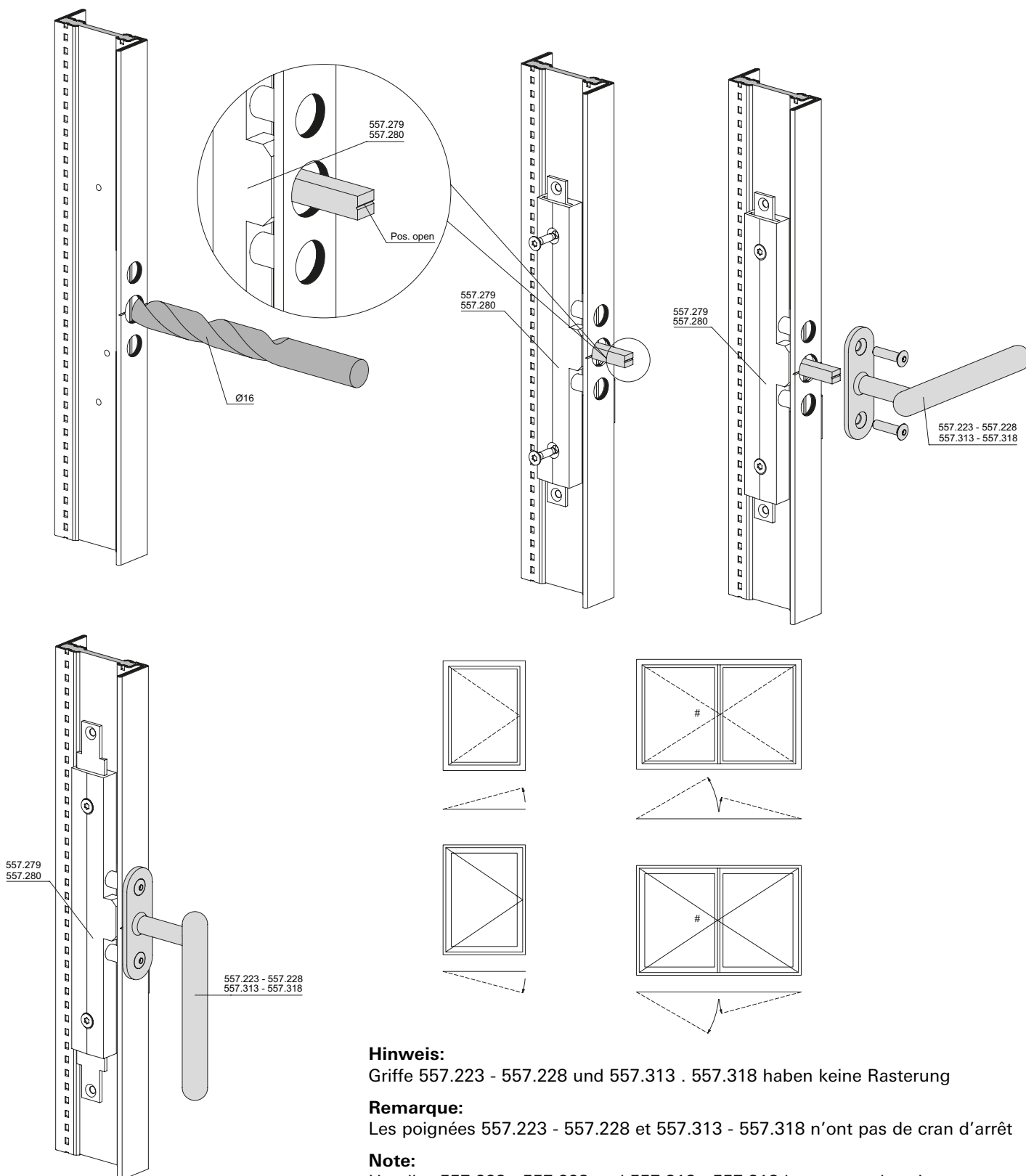
Installation of window handle 557.269



Einbau Fenstergriffe
557.223 - 557.228
557.313 - 557.318

Montage poignées de fenêtre
557.223 - 557.228
557.313 - 557.318

Installation of window handles
557.223 - 557.228
557.313 - 557.318



Hinweis:

Griffe 557.223 - 557.228 und 557.313 - 557.318 haben keine Rasterung

Remarque:

Les poignées 557.223 - 557.228 et 557.313 - 557.318 n'ont pas de cran d'arrêt

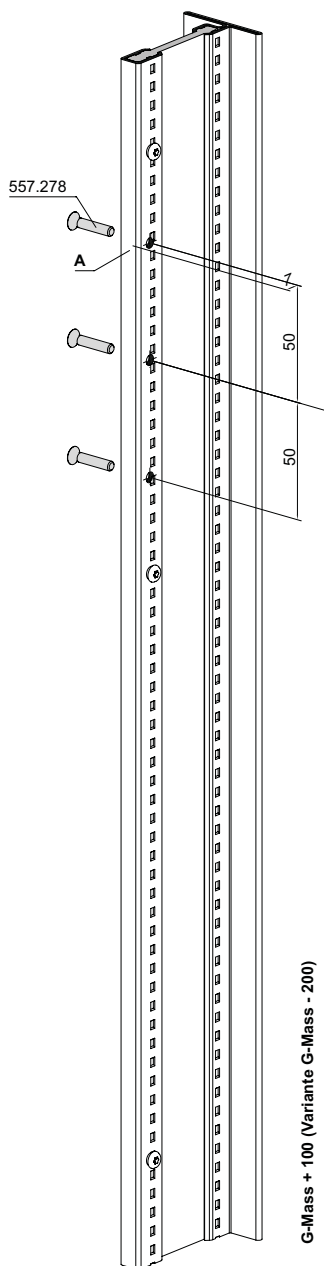
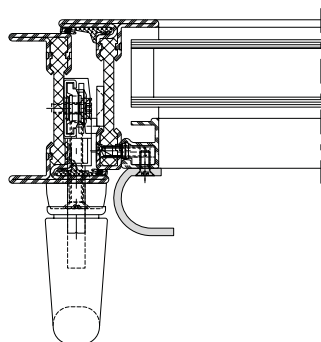
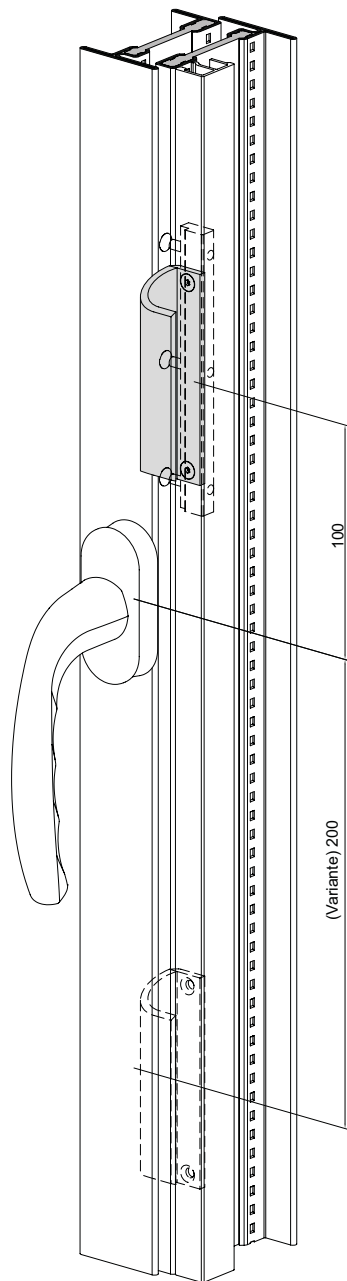
Note:

Handles 557.223 - 557.228 and 557.313 - 557.318 have no embossing

**Ziehgriff 550.319 bei nach
 aussen öffnendem Fenster
 für Glasleisten 405.030-405.035
 Flügel**

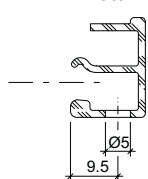
**Poignée à tirer 550.319 sur une
 fenêtre à ouverture vers l'extérieur
 pour parclores 405.030-405.035
 Vantail**

**Pull handle 550.319 for
 outward-opening window
 for glazing beads 405.030-405.035
 Sash**

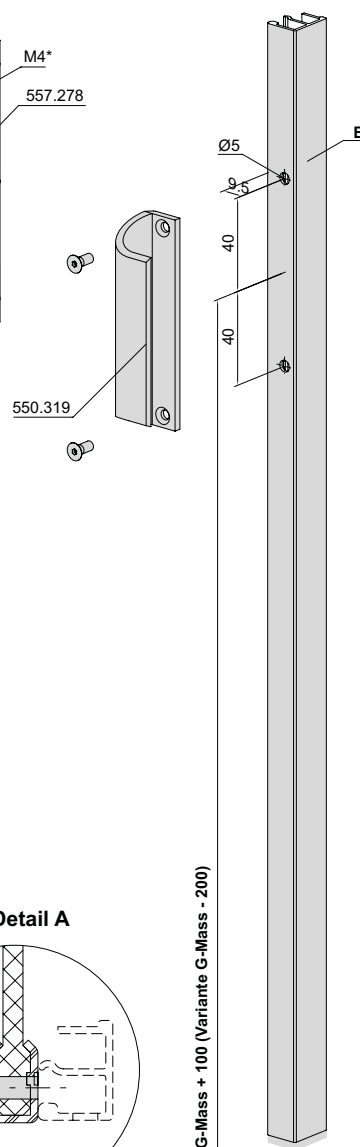
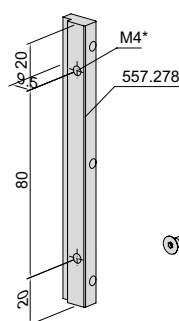


G-Mass + 100 (Variante G-Mass - 200)

Detail B

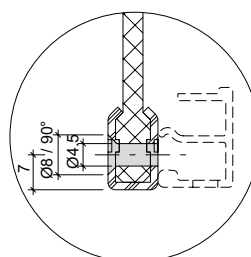


- * Die M4-Bohrung durch Metallbauer ausführen
- * Faire effectuer le perçage M4 par le constructeur métallique
- * Have a metalworker drill the M4 hole



G-Mass + 100 (Variante G-Mass - 200)

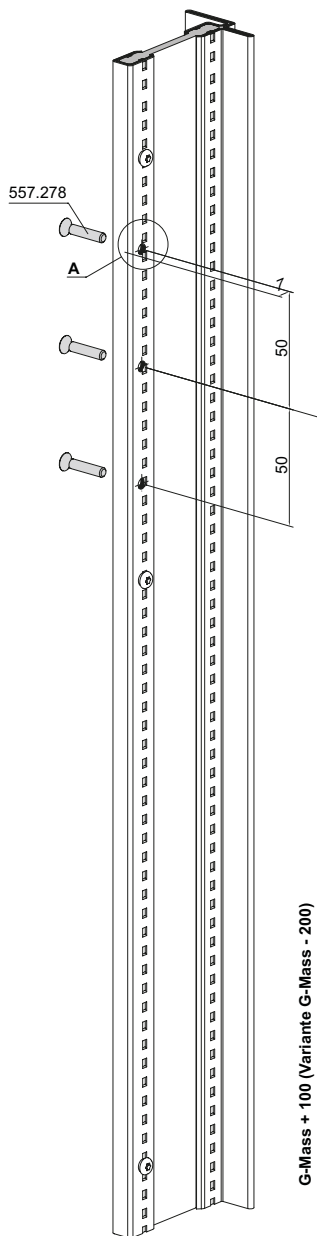
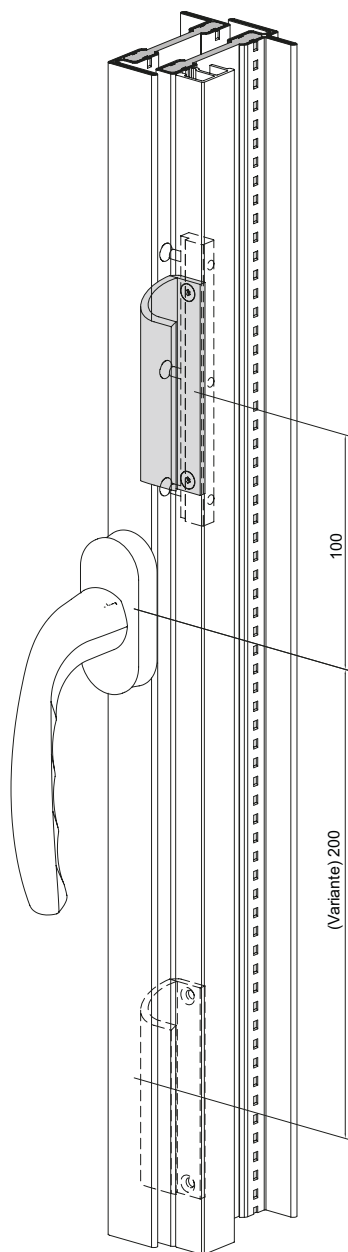
Detail A



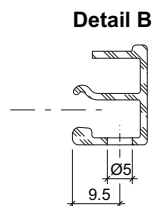
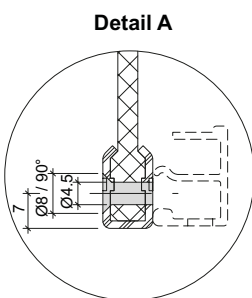
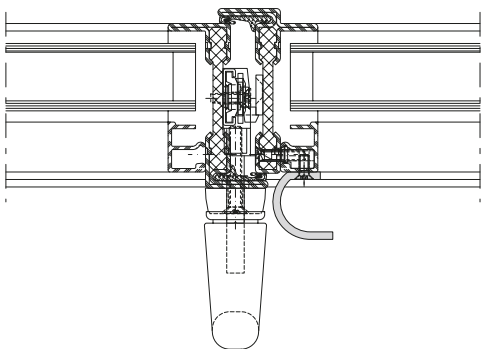
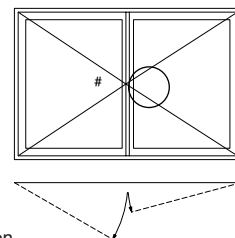
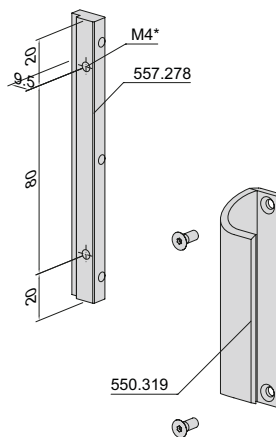
**Ziehgriff 550.319 bei nach
 aussen öffnendem Fenster
 für Glasleisten 405.030-405.035
 Stulpfenster**

**Poignée à tirer 550.319 sur une
 fenêtre à ouverture vers l'extérieur
 pour parclores 405.030-405.035
 Fenêtre à deux vantaux**

**Pull handle 550.319 for
 outward-opening window
 for glazing beads 405.030-405.035
 Double sash window**



- * Die M4-Bohrung durch Metallbauer ausführen
- * Faire effectuer le perçage M4 par le constructeur métallique
- * Have a metalworker drill the M4 hole

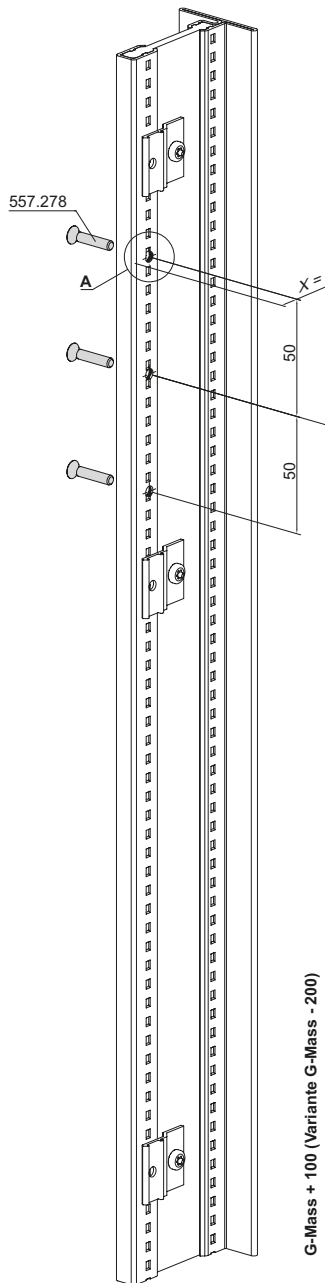
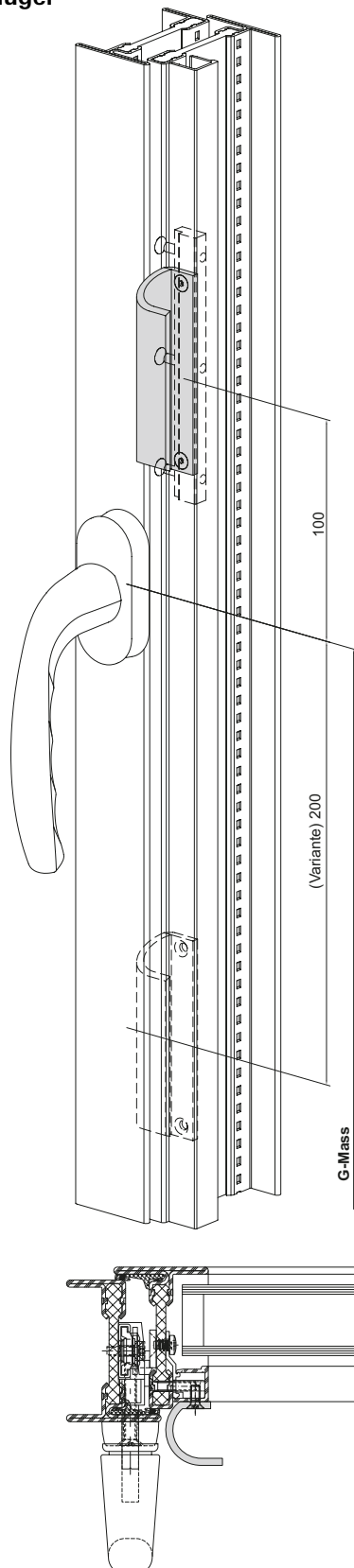


G-Mass + 100 (Variante G-Mass - 200)

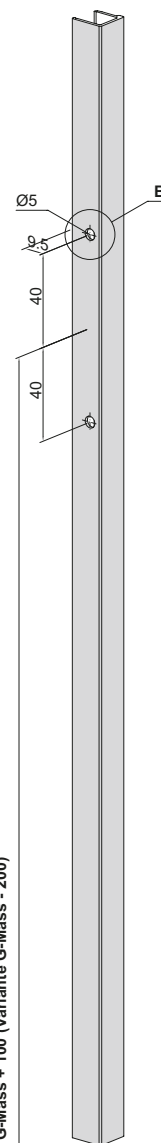
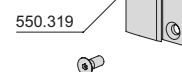
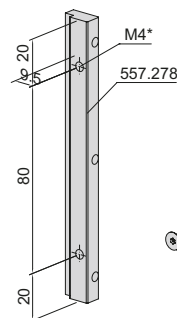
Ziehgriff 550.319 bei nach aussen öffnendem Fenster für Glasleisten 405.021-405.025 Flügel

Poignée à tirer 550.319 sur une fenêtre à ouverture vers l'extérieur pour parclores 405.021-405.025 Vantail

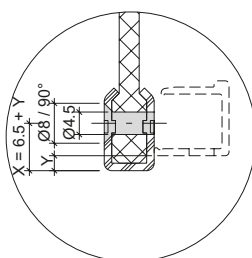
Pull handle 550.319 for outward-opening window for glazing beads 405.021-405.025 Sash



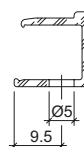
- * Die M4-Bohrung durch Metallbauer ausführen
- * Faire effectuer le perçage M4 par le constructeur métallique
- * Have a metalworker drill the M4 hole



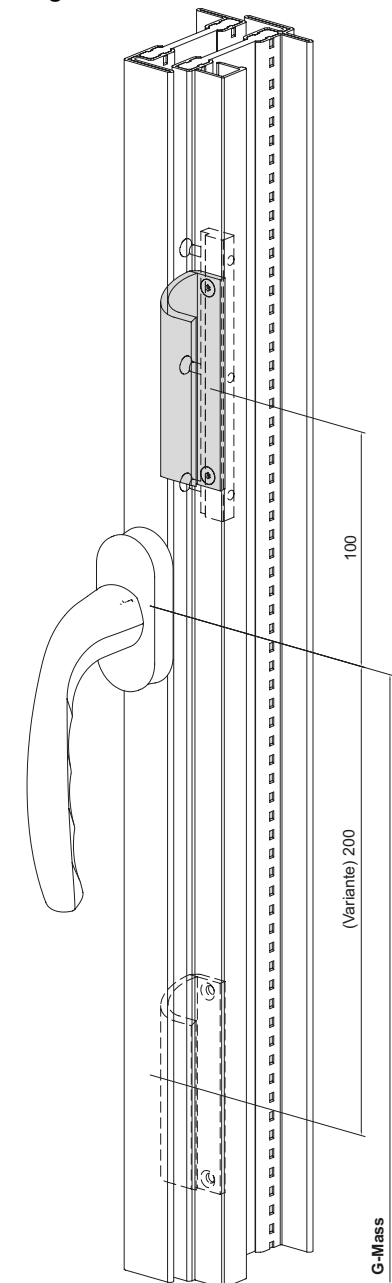
Detail A



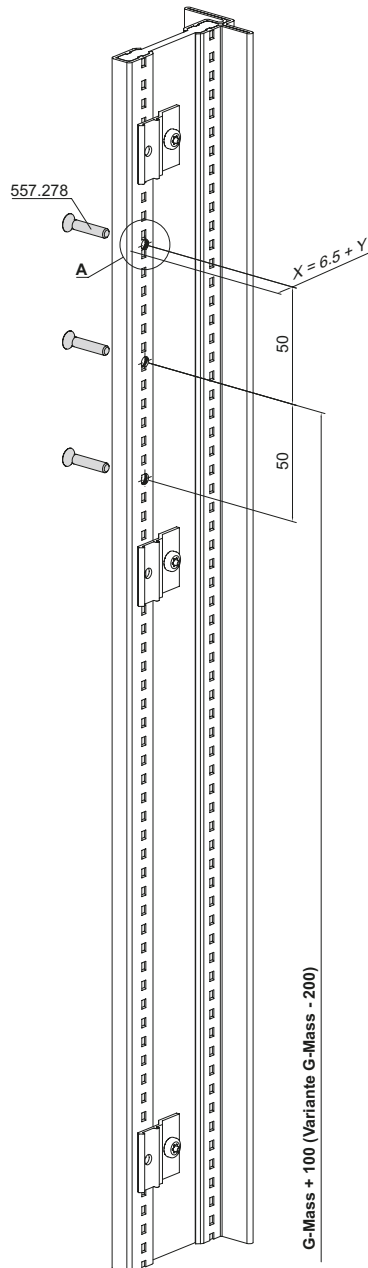
Detail B



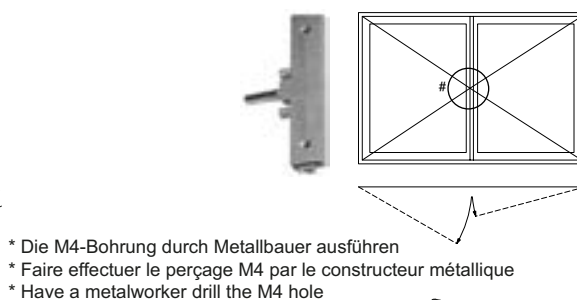
Ziehgriff 550.319 bei nach
aussen öffnendem Fenster
für Glasleisten 405.021-405.025
Flügel



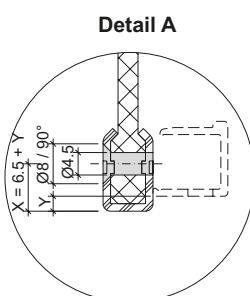
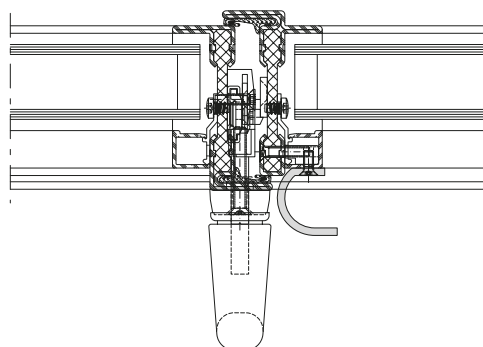
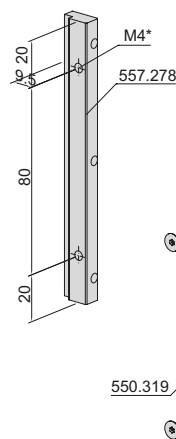
Poignée à tirer 550.319 sur une
fenêtre à ouverture vers l'extérieur
pour parclores 405.021-405.025
Vantail



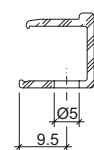
Pull handle 550.319 for
outward-opening window for
glazing beads 405.021-405.025
Sash



- * Die M4-Bohrung durch Metallbauer ausführen
- * Faire effectuer le perçage M4 par le constructeur métallique
- * Have a metalworker drill the M4 hole



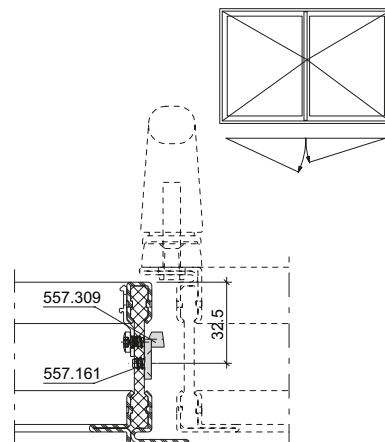
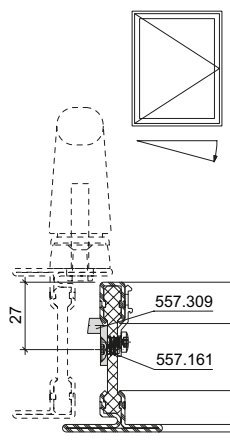
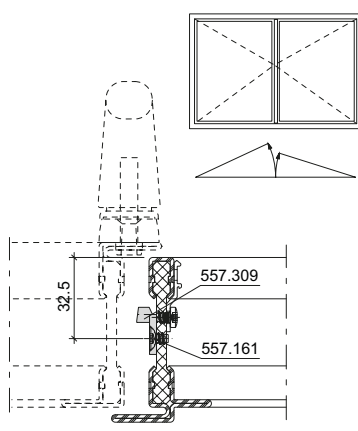
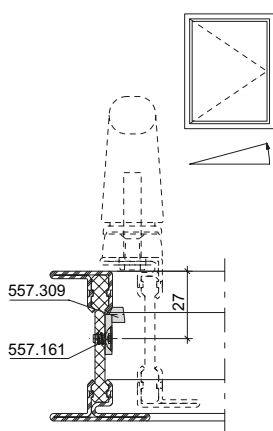
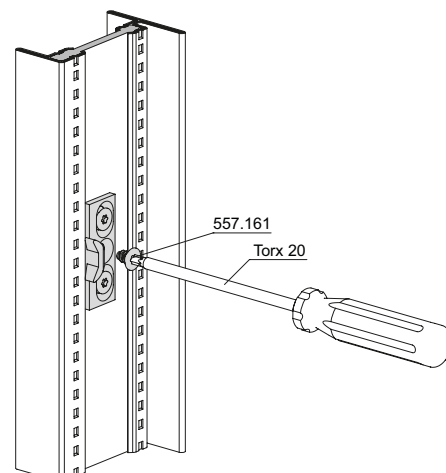
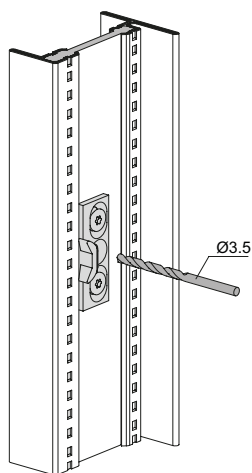
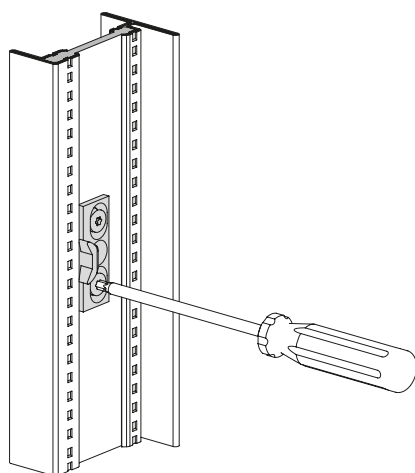
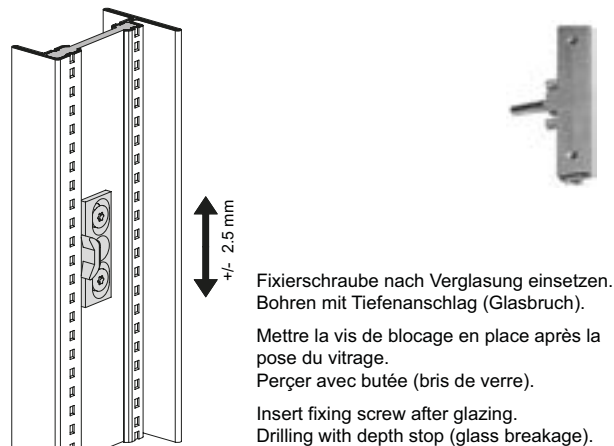
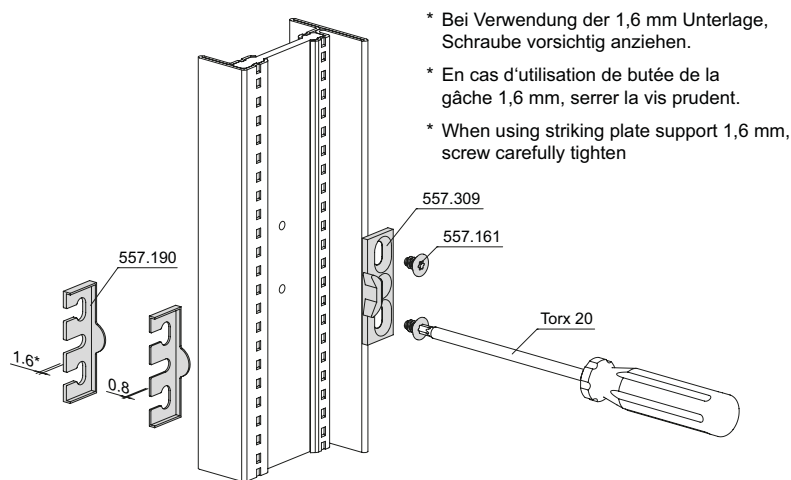
Detail B



Schliessbleche 557.309 ausrichten und fixieren

Ajuster et fixer les gâches de fermeture 557.309

Align and fix strike plates 557.309



Seitliche Toleranzaufnahme:
 Einsatz von Unterlagen 0,8 mm oder 1,6 mm je nach Situation einsetzbar.

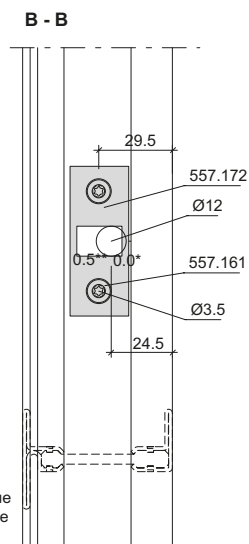
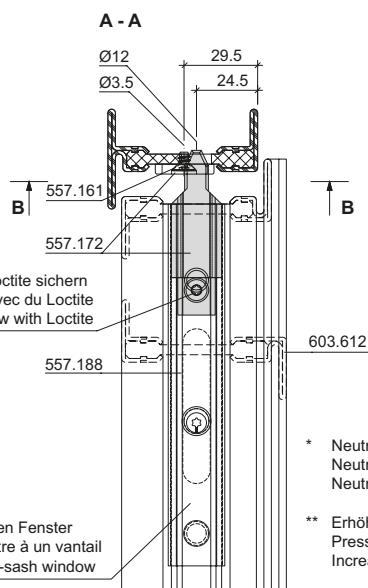
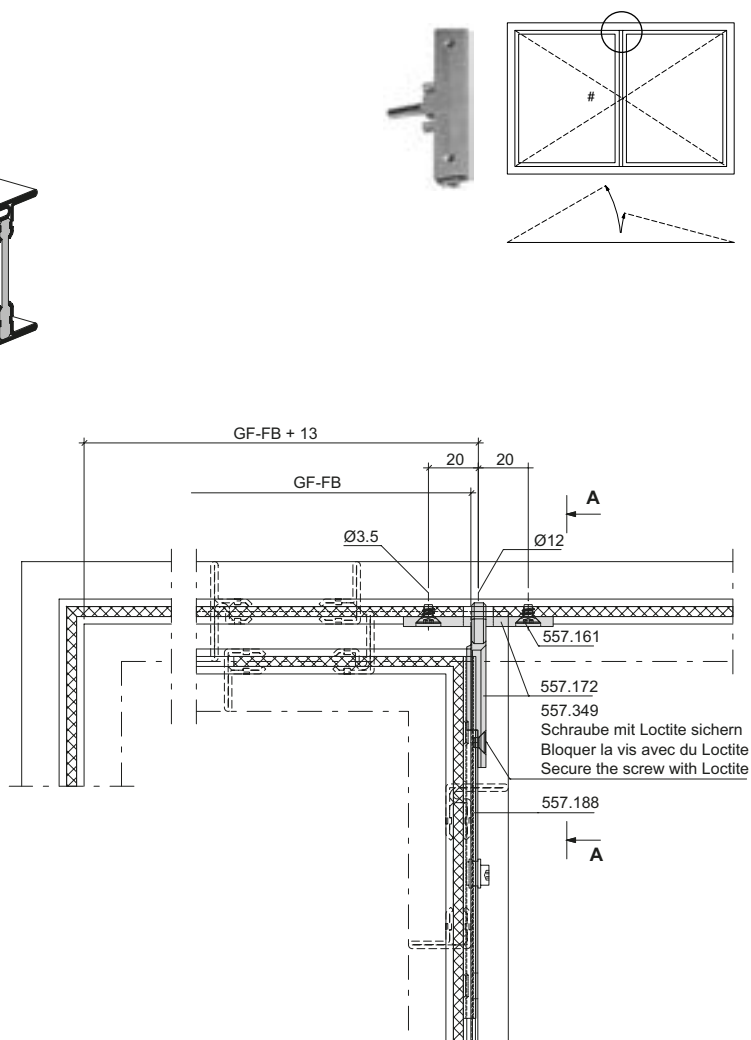
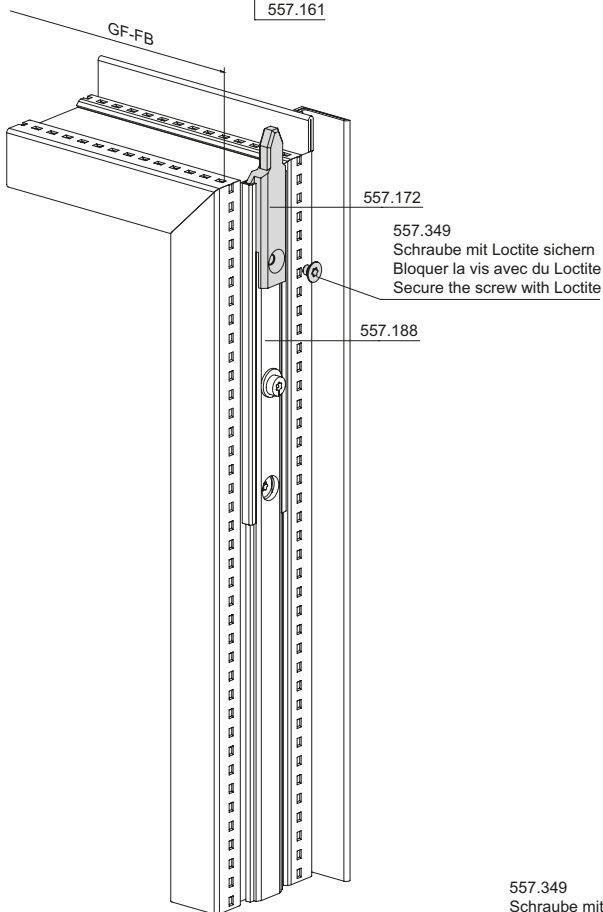
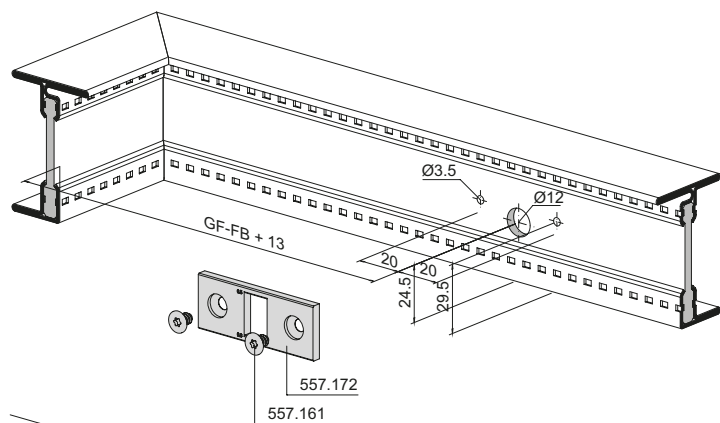
Rattrapage des jeux latéraux
 Utilisation de cales 0,8 mm ou 1,6 mm selon la situation.

Lateral tolerance:
 0,8 mm or 1,6 mm supports can be used depending on the circumstances.

Büchse oben
zu Zusatzverriegelung 557.172

Coussinet en haut du verrouillage
supplémentaire 557.172

Top socket for
additional lock 557.172



Zuschnitt wie beim einflügeligen Fenster
 Découpe comme pour la fenêtre à un vantail
 Cutting in same way as single-sash window

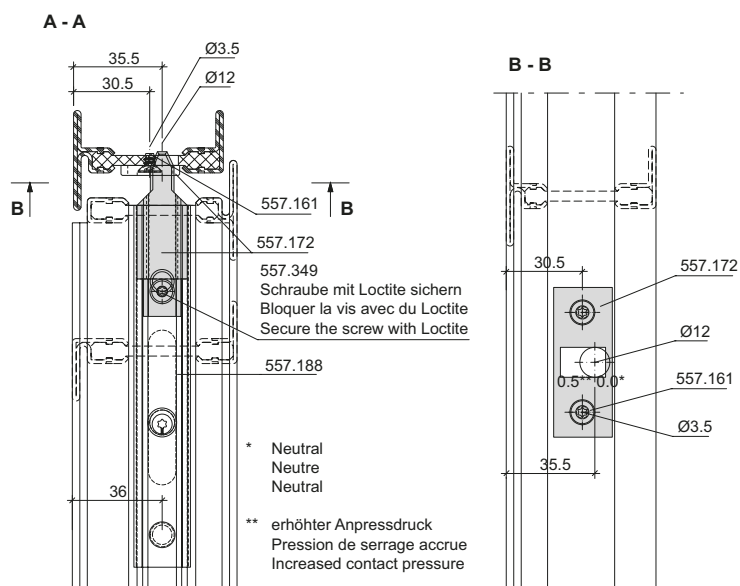
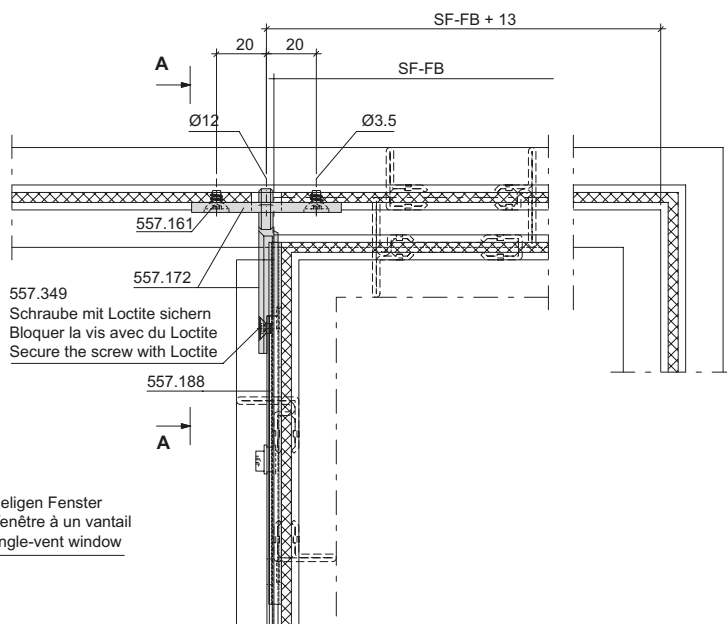
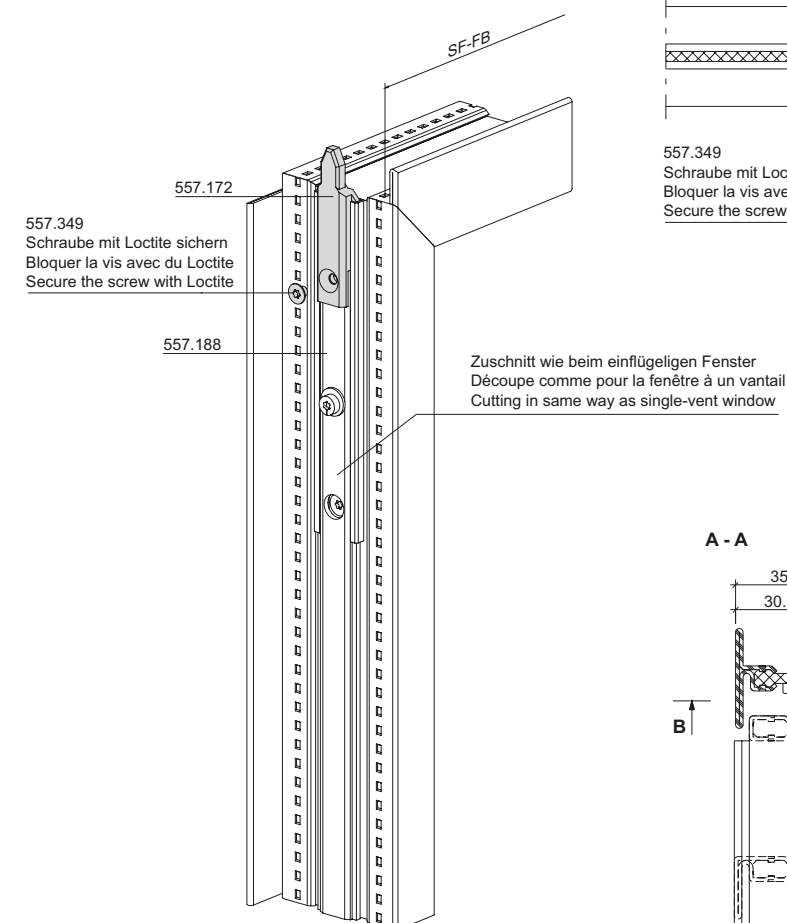
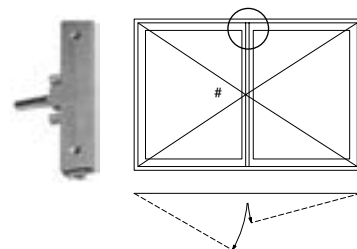
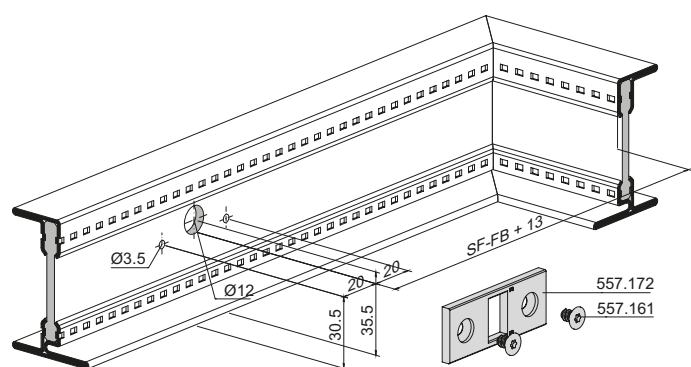
* Neutral
 Neutre
 Neutral

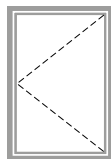
** Erhöhter Anpressdruck
 Pression de serrage accrue
 Increased contact pressure

Büchse oben
zu Zusatzverriegelung 557.172

Coussinet en haut du verrouillage
supplémentaire 557.172

Top socket for
additional lock 557.172





**Drehfenster
nach innen öffnend**

**Fenêtre à la française
ouvrant vers l'intérieur**

**Side-hung window
inward opening**

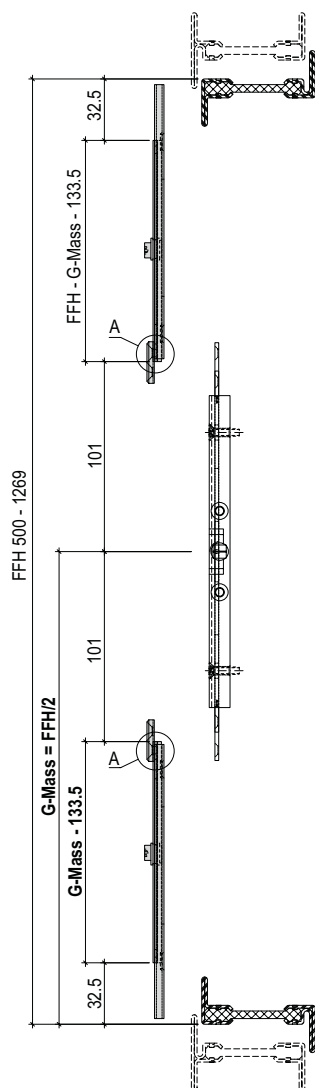
Zuschnitt Getriebeverlängerung Bohrbild Getriebeverlängerung und Schliessbleche	Découpe prolongement de la crémonne Schéma de perçage prolongement de la crémonne et gâches	Cutting gearbox extension Drilling pattern gearbox extension and striking plates	93
Zuschnitt Getriebeverlängerung Bohrbild Getriebeverlängerung und Schliessbleche Fenstertüre	Découpe prolongement de la crémonne Schéma de perçage prolongement de la crémonne et gâches Porte-fenêtre	Cutting gearbox extension Drilling pattern gearbox extension and striking plates Window-door	97
Bohrlehre 499.547 für Getriebe 557.279/557.280 und Fenstergriff 557.268	Gabarit de perçage 499.547 pour crémonne 557.279/557.280 et poignée de fenêtre 557.268	Drilling jig 499.547 for mechanism 557.279/557.280 and window handle 557.268	98
Bohrlehre 499.547 für Getriebeverlängerung 557.188	Gabarit de perçage 499.547 pour prolongement de la crémonne 557.188	Drilling jig 499.547 for gearbox extension 557.188	100
Bohrlehre 499.547 für Schliessbleche 557.309	Gabarit de perçage 499.547 pour gâches 557.309	Drilling jig 499.547 for striking plates 557.309	104

Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 500-1269

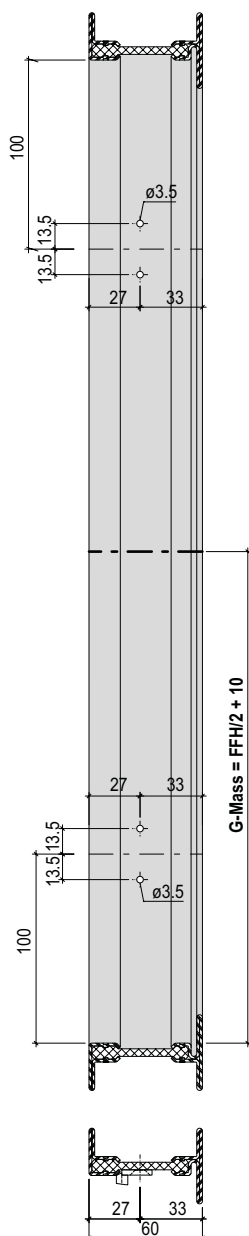
Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 500-1269

Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 500-1260

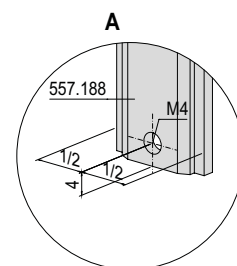
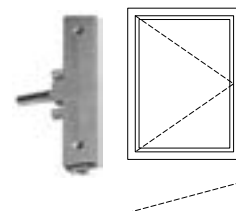
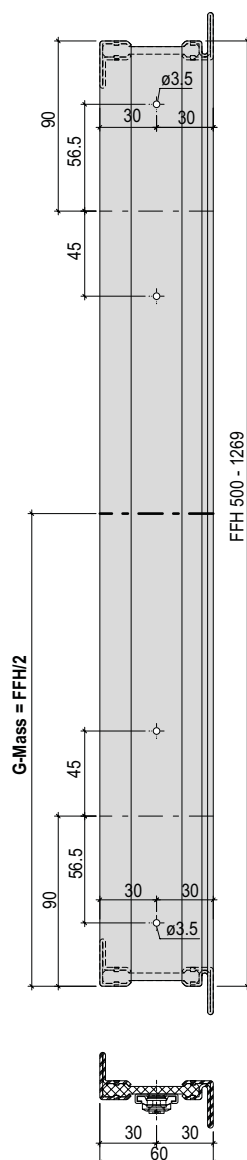
Zuschnitt/Découpe/Cutting



Rahmen/Cadre/Frame

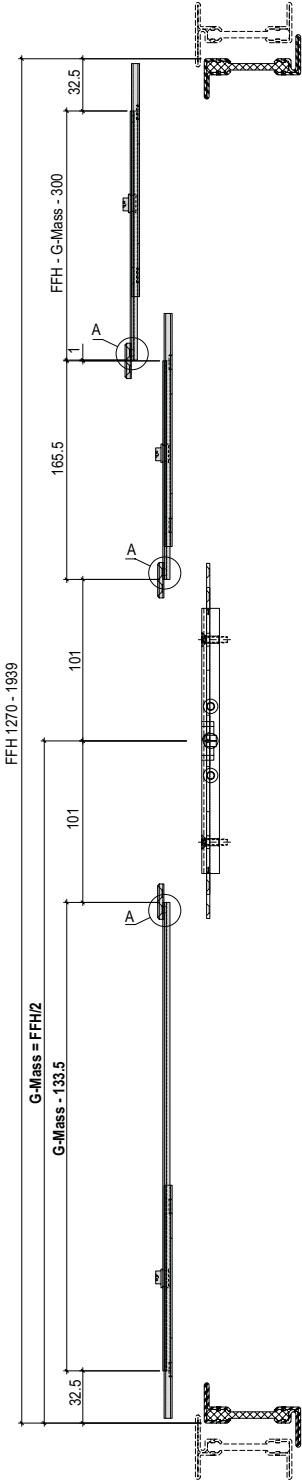


Flügel/Vantail/Sash



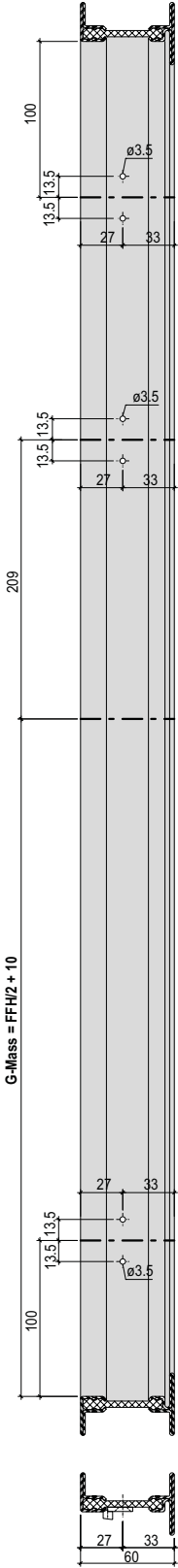
Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1270-1939

Zuschnitt/Découpe/Cutting



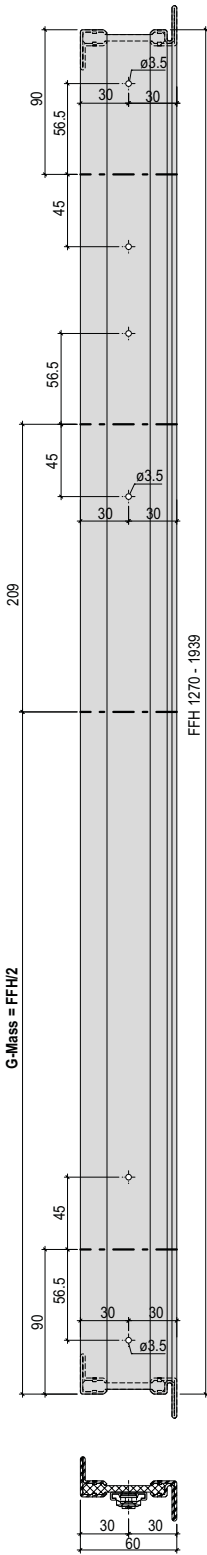
Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 1270-1939

Rahmen/Cadre/Frame

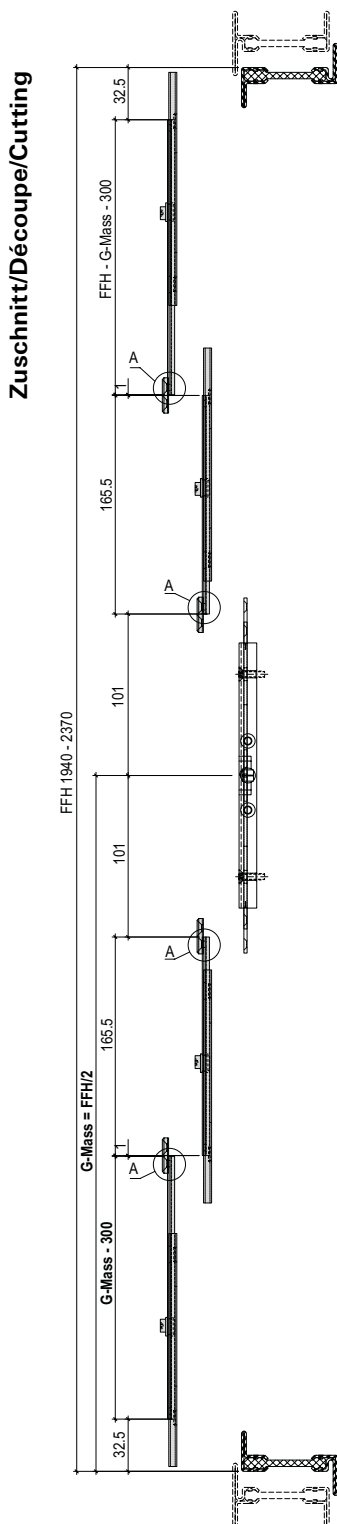


Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1270-1939

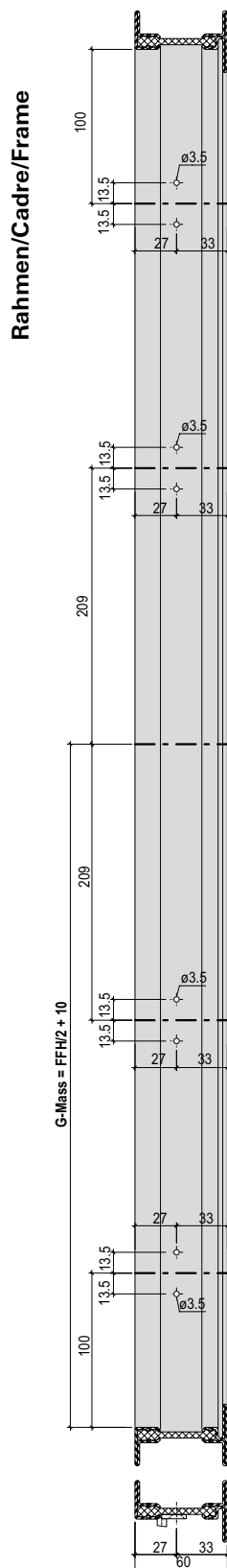
Flügel/Vantail/Sash



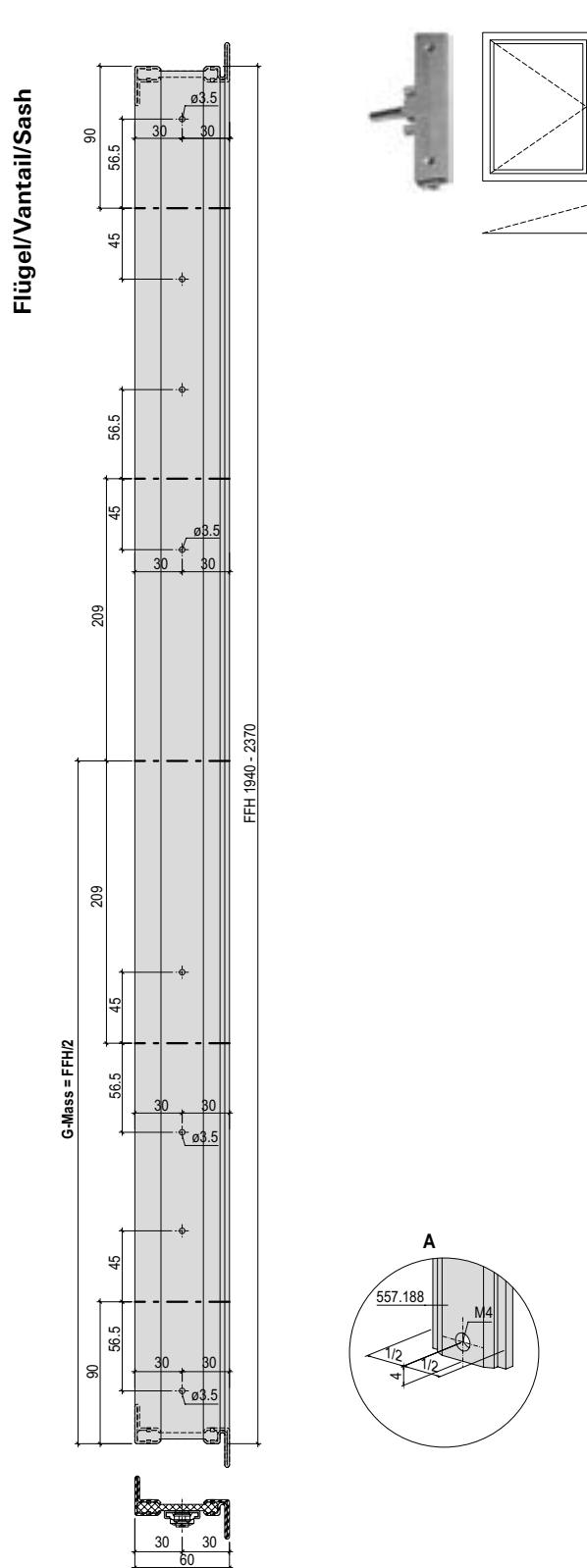
Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1940-2370



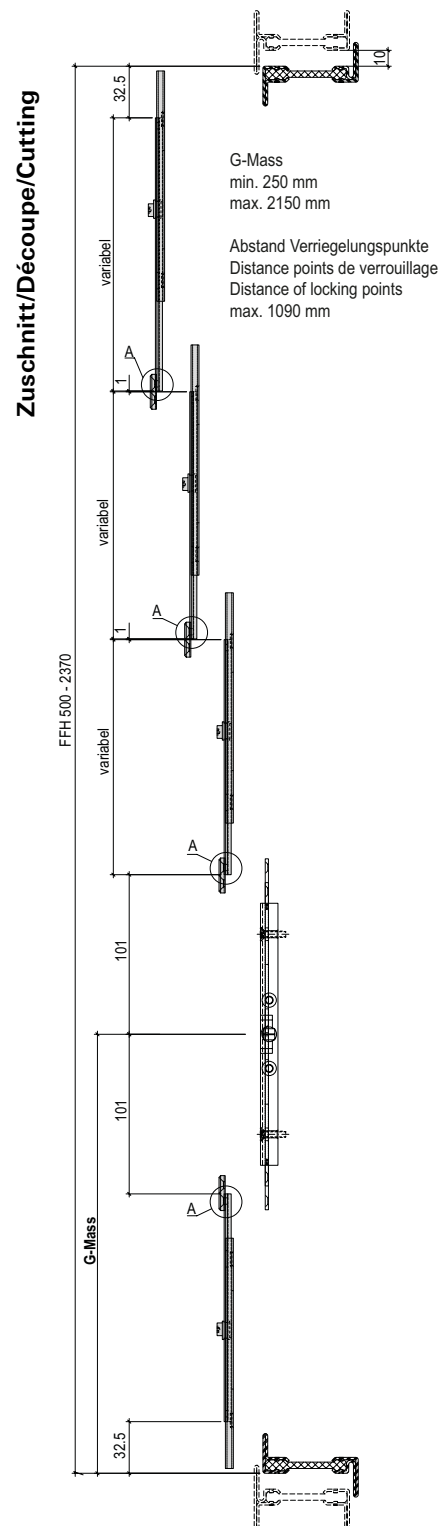
Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 1940-2370



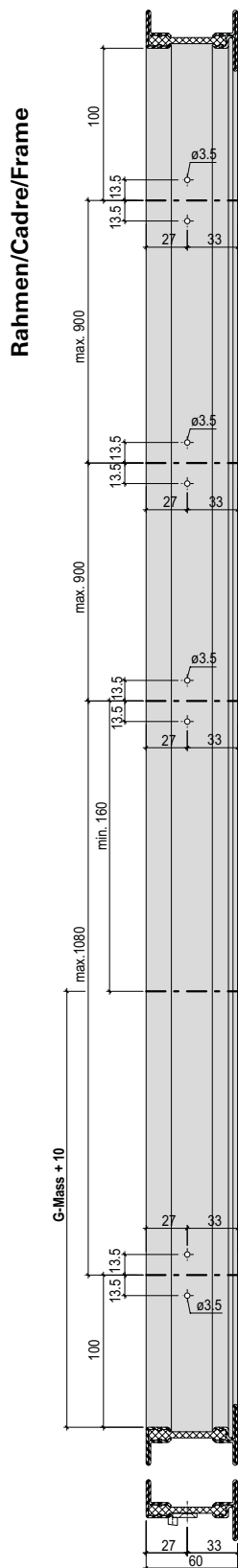
Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1940-2370



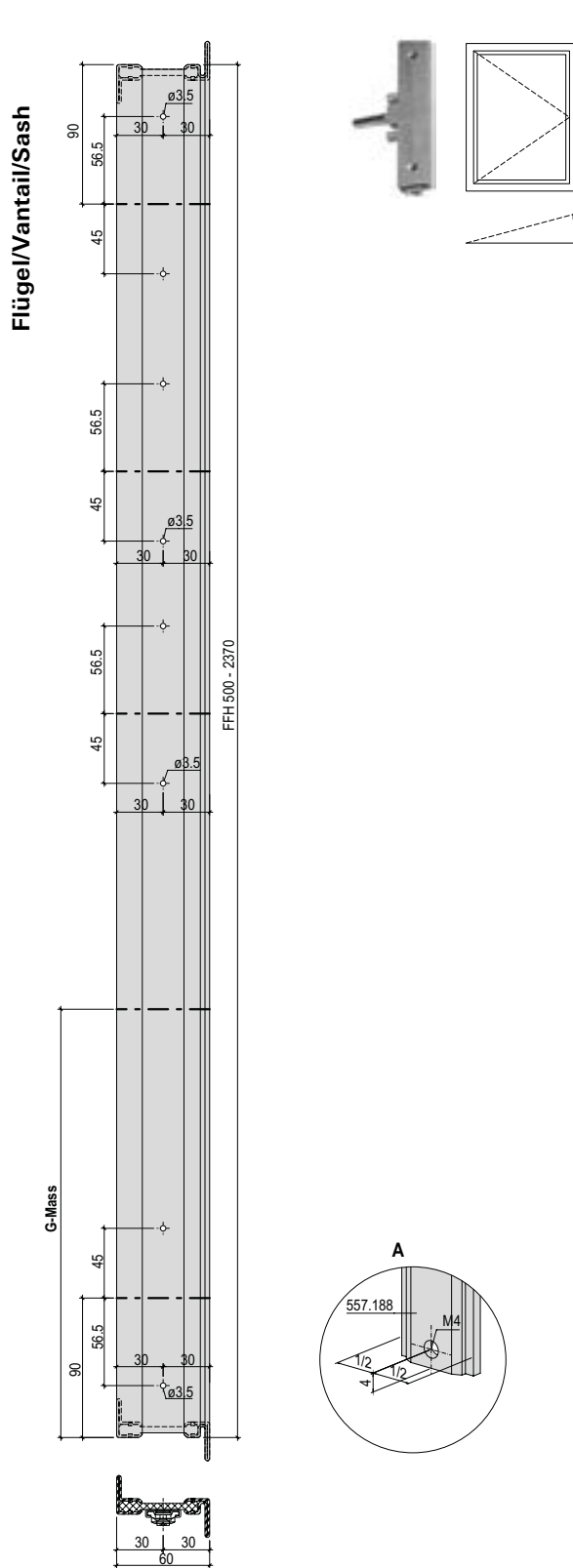
**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 500-2370**



Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 500-2370



**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 500-2370**

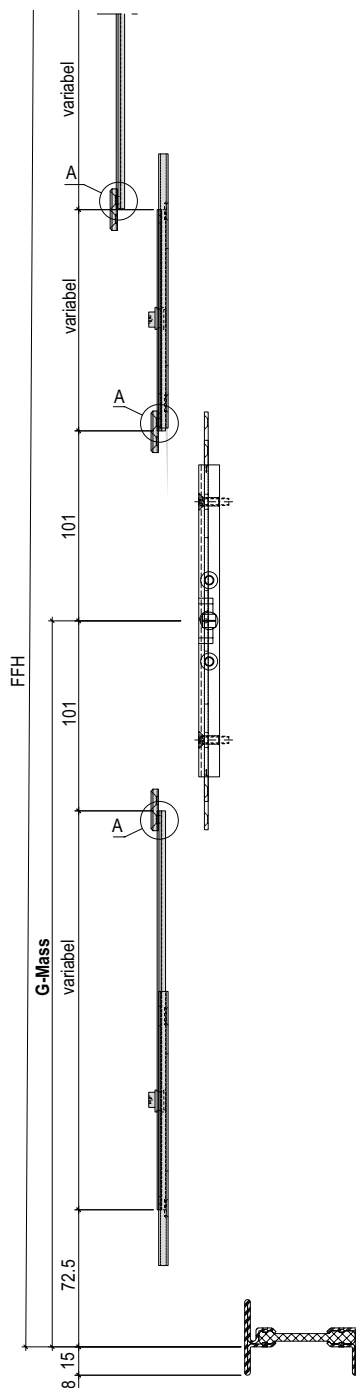


**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 500-2370
Fenstertüre**

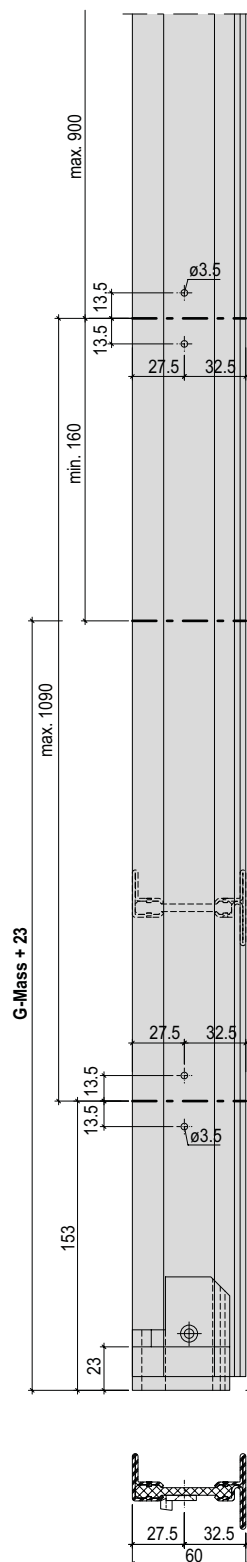
Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 500-2370
Porte-fenêtre

**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 500-2370
Window-door**

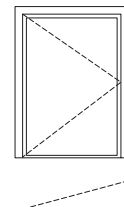
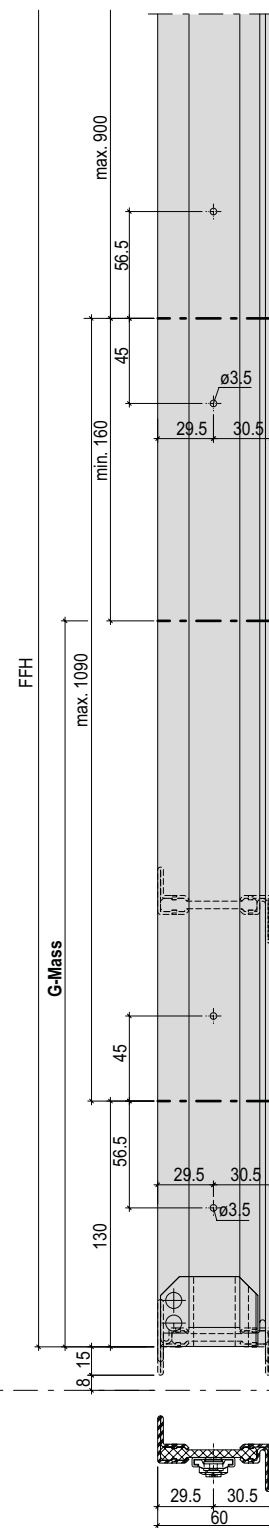
Zuschnitt/Découpe/Cutting



Rahmen/Cadre/Frame



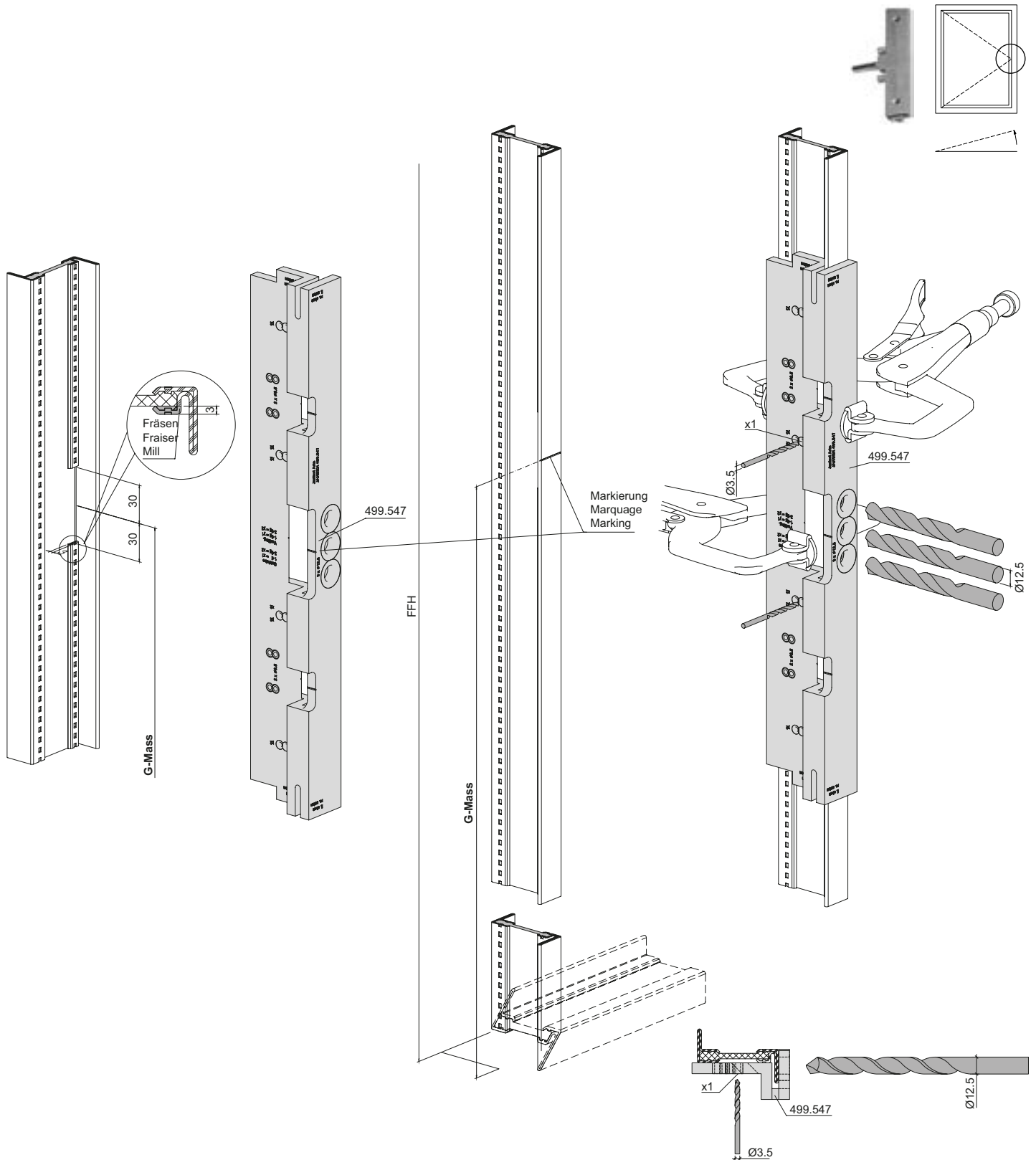
Flügel/Vantail/Sash



**Bohrlehre 499.547 für
Getriebe 557.279/557.280
und Fenstergriff 557.268
Flügel**

**Gabarit de perçage 499.547 pour
crémone 557.279/557.280 et
poignée de fenêtre 557.268
Vantail**

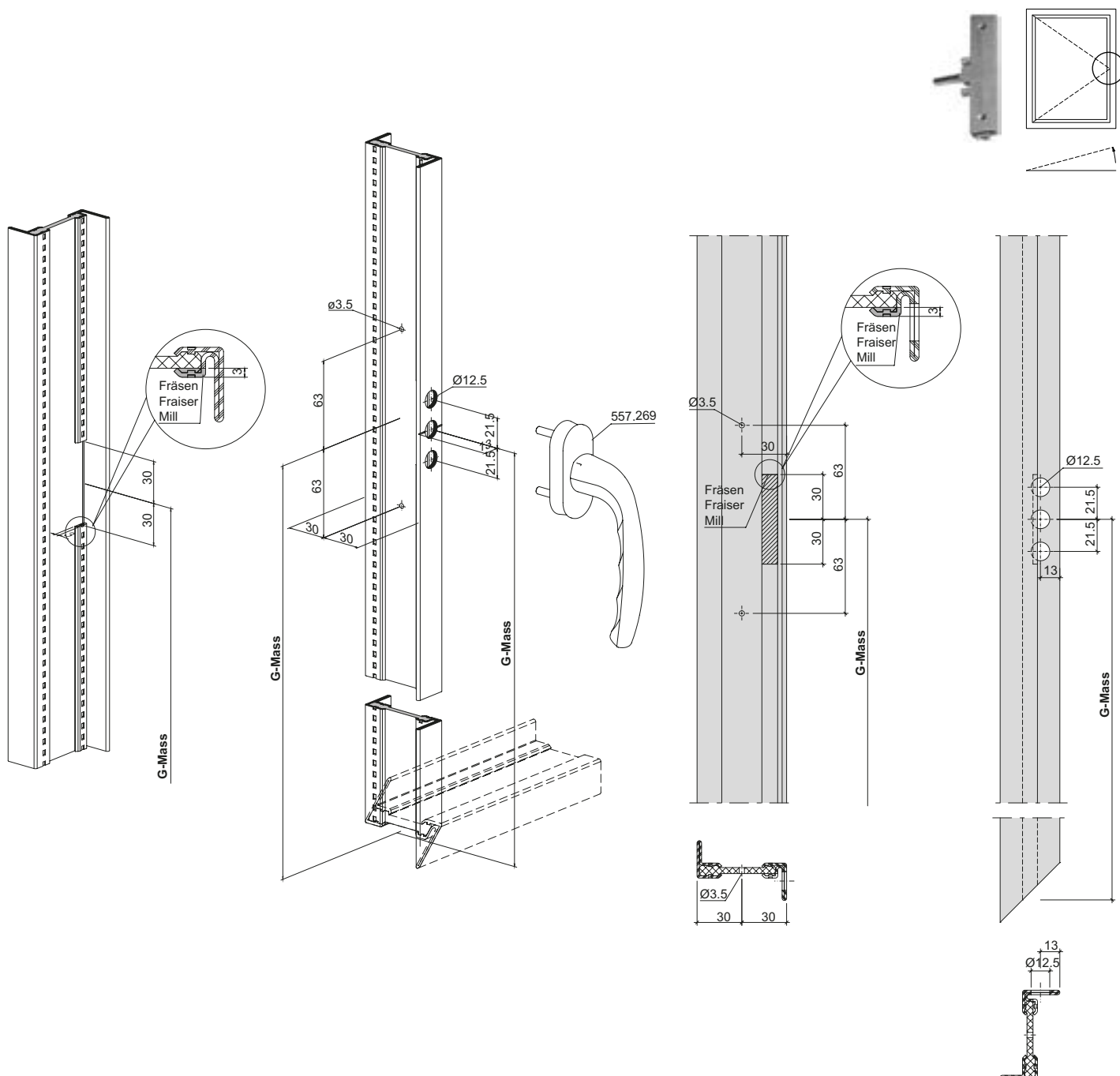
**Drilling jig 499.547 for
mechanisme 557.279/557.280
and window handle 557.268
Sash**



Bohrbild und Fräsung
Getriebe 557.279/557.280
und Fenstergriff 557.268
Flügel

Schéma de perçage et fraisage
Crémone 557.279/557.280 et
poignée de fenêtre 557.268
Vantail

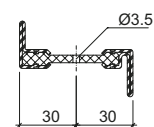
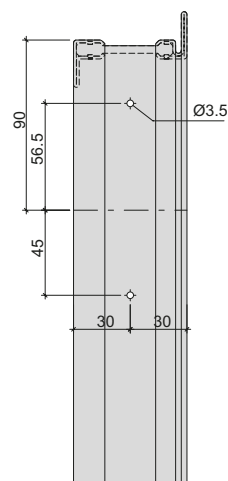
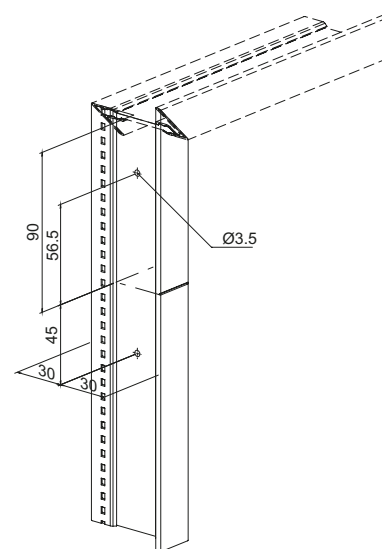
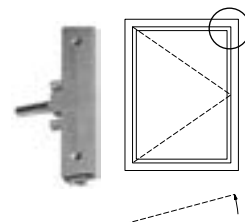
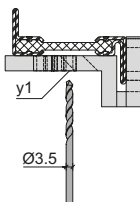
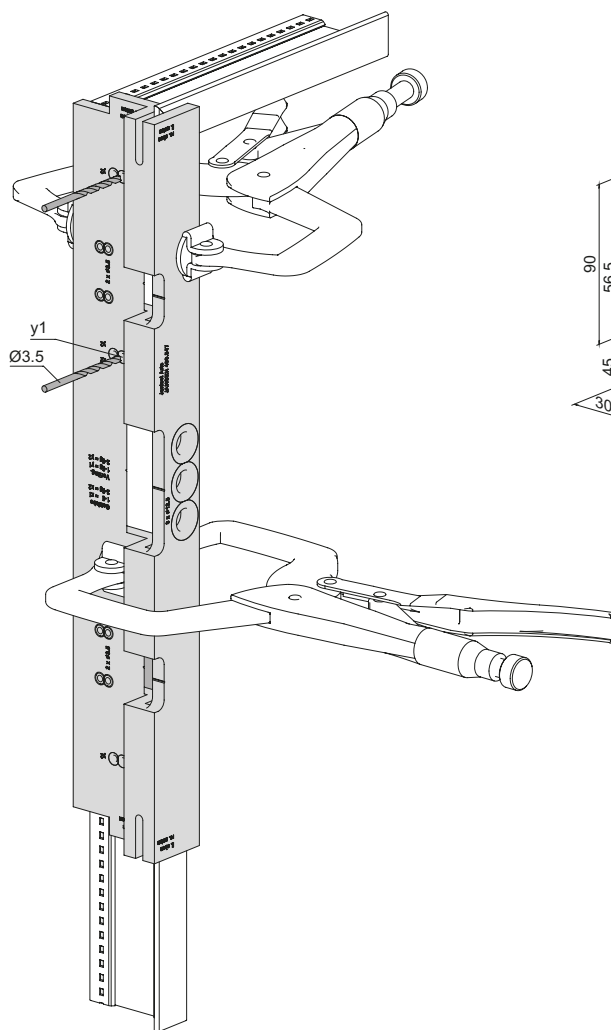
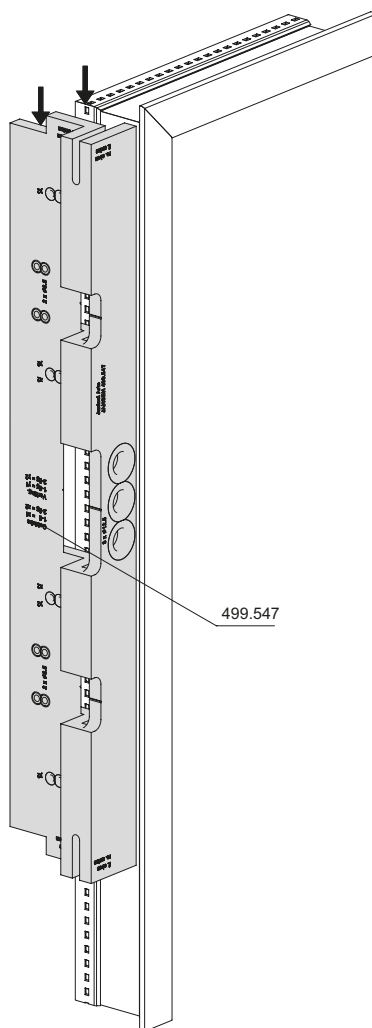
Drilling pattern and milling
Mechanisme 557.279/557.280
and window handle 557.268
Sash



**Bohrlehre 499.547 für
 Getriebeverlängerung 557.188
 Flügel oben**

**Gabarit de perçage 499.547 pour
 prolongement de la crémonne
 557.188 Vantail en haut**

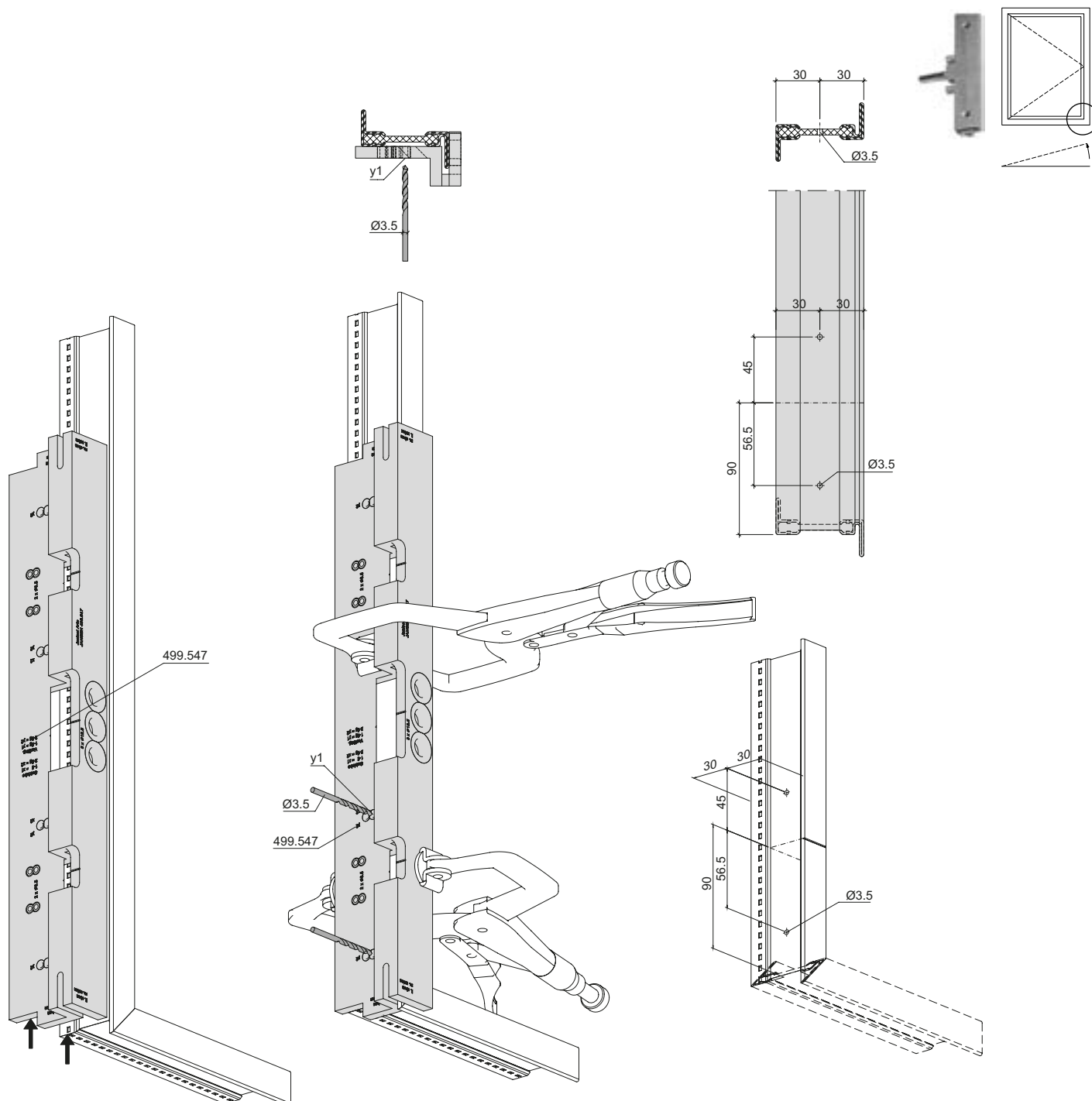
**Drilling jig 499.547 for
 gearbox extension 557.188
 Sash top**



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Flügel unten

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188 Vantail en bas

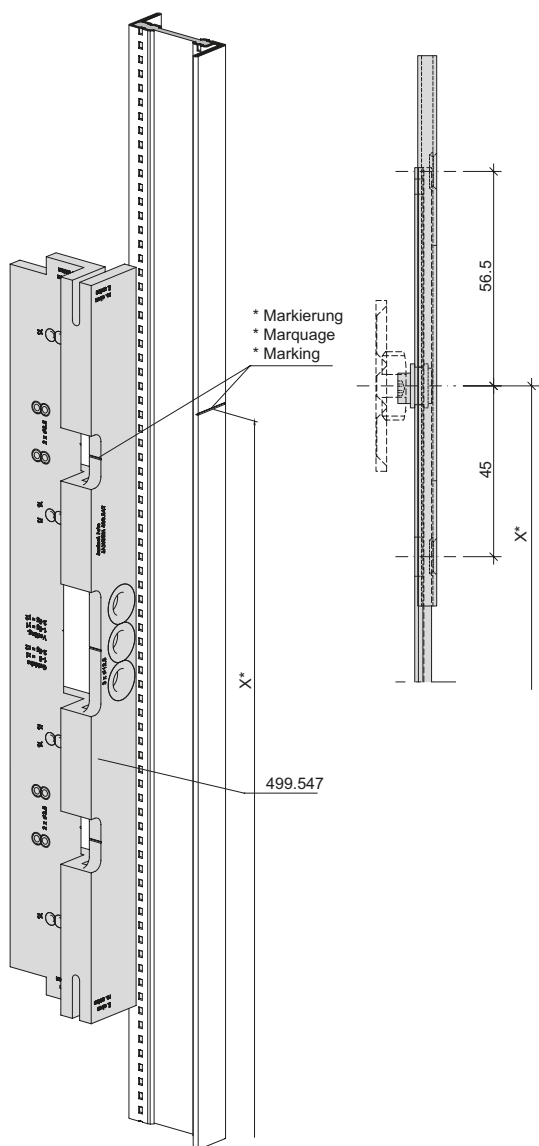
Drilling jig 499.547 for
gearbox extension 557.188
Sash bottom



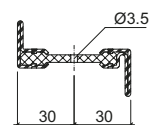
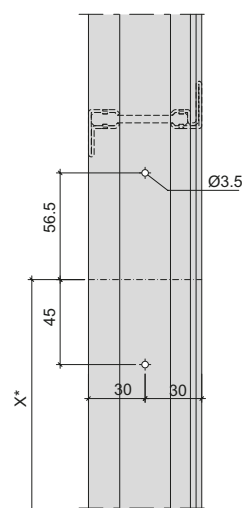
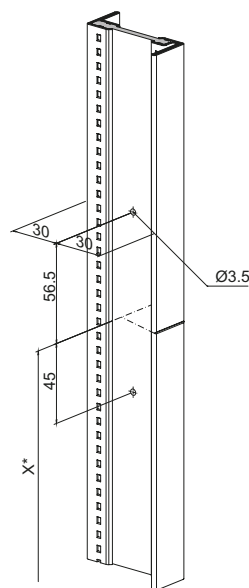
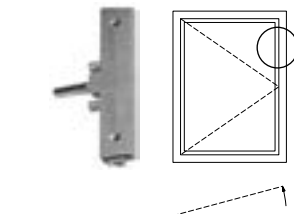
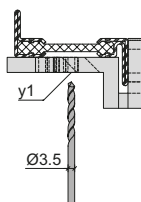
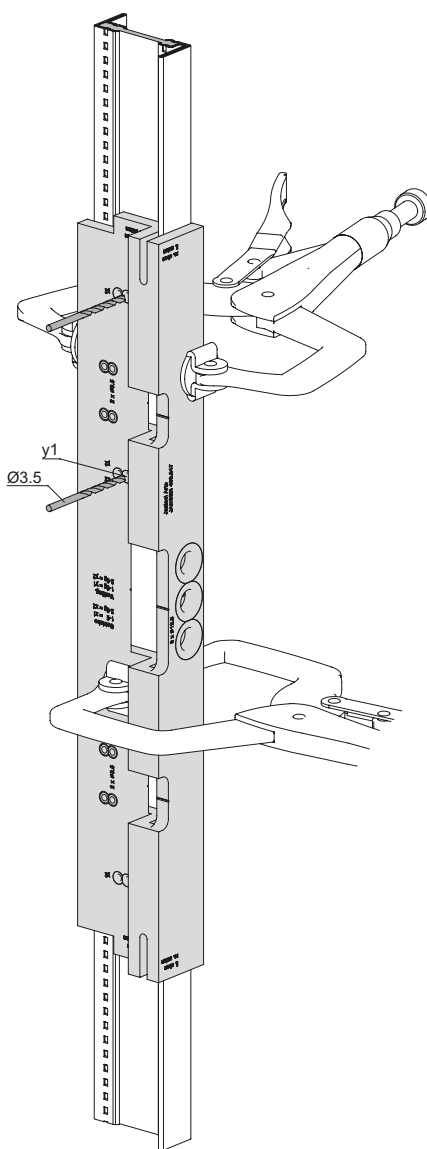
**Bohrlehre 499.547 für
 Getriebeverlängerung 557.188
 Flügel**

**Gabarit de perçage 499.547 pour
 prolongement de la crémonne
 557.188
 Vantail**

**Drilling jig 499.547 for
 gearbox extension 557.188
 Sash**



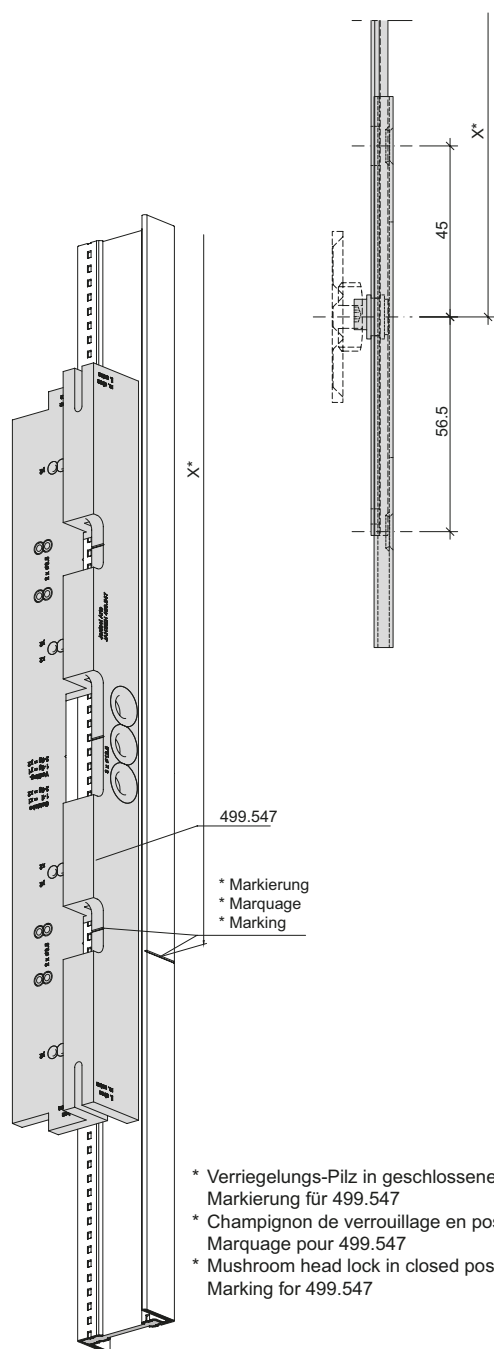
- * Verriegelungs-Pilz in geschlossener Position
 Markierung für 499.547
- * Champignon de verrouillage en position fermée
 Marquage pour 499.547
- * Mushroom head lock in closed position
 Marking for 499.547



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Flügel

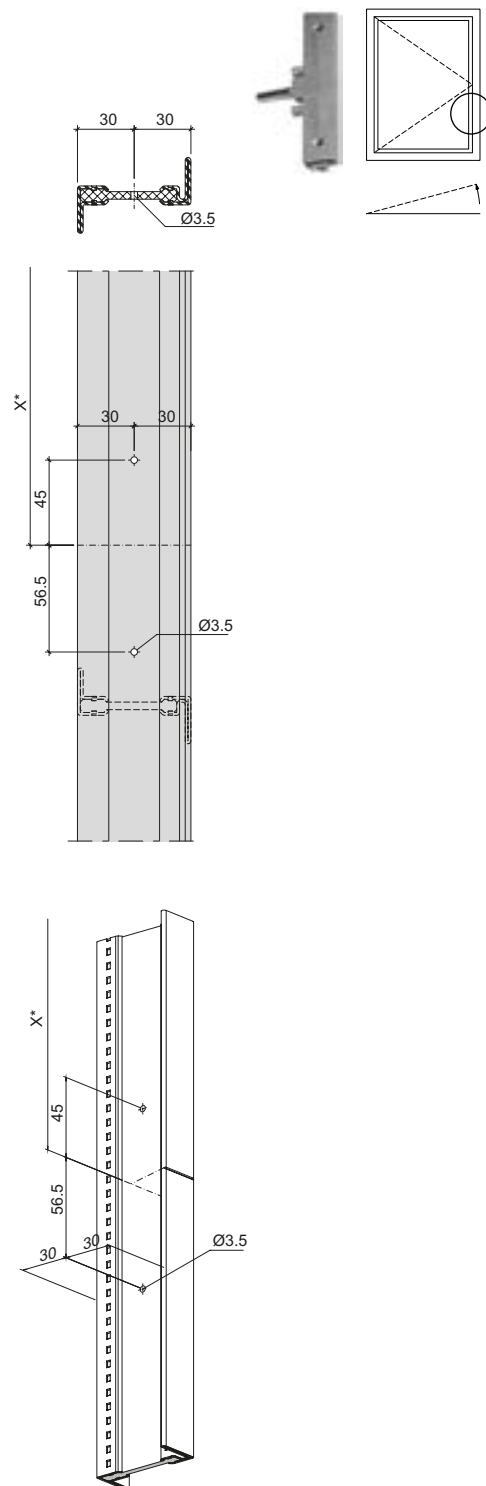
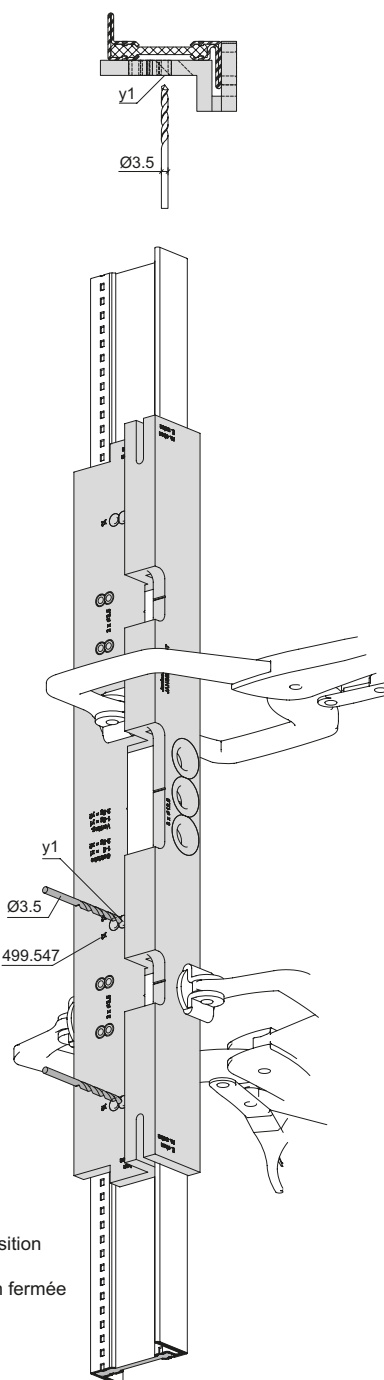
Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188
Vantail

Drilling jig 499.547 for
gearbox extension 557.188
Sash



499.547
* Markierung
* Marquage
* Marking

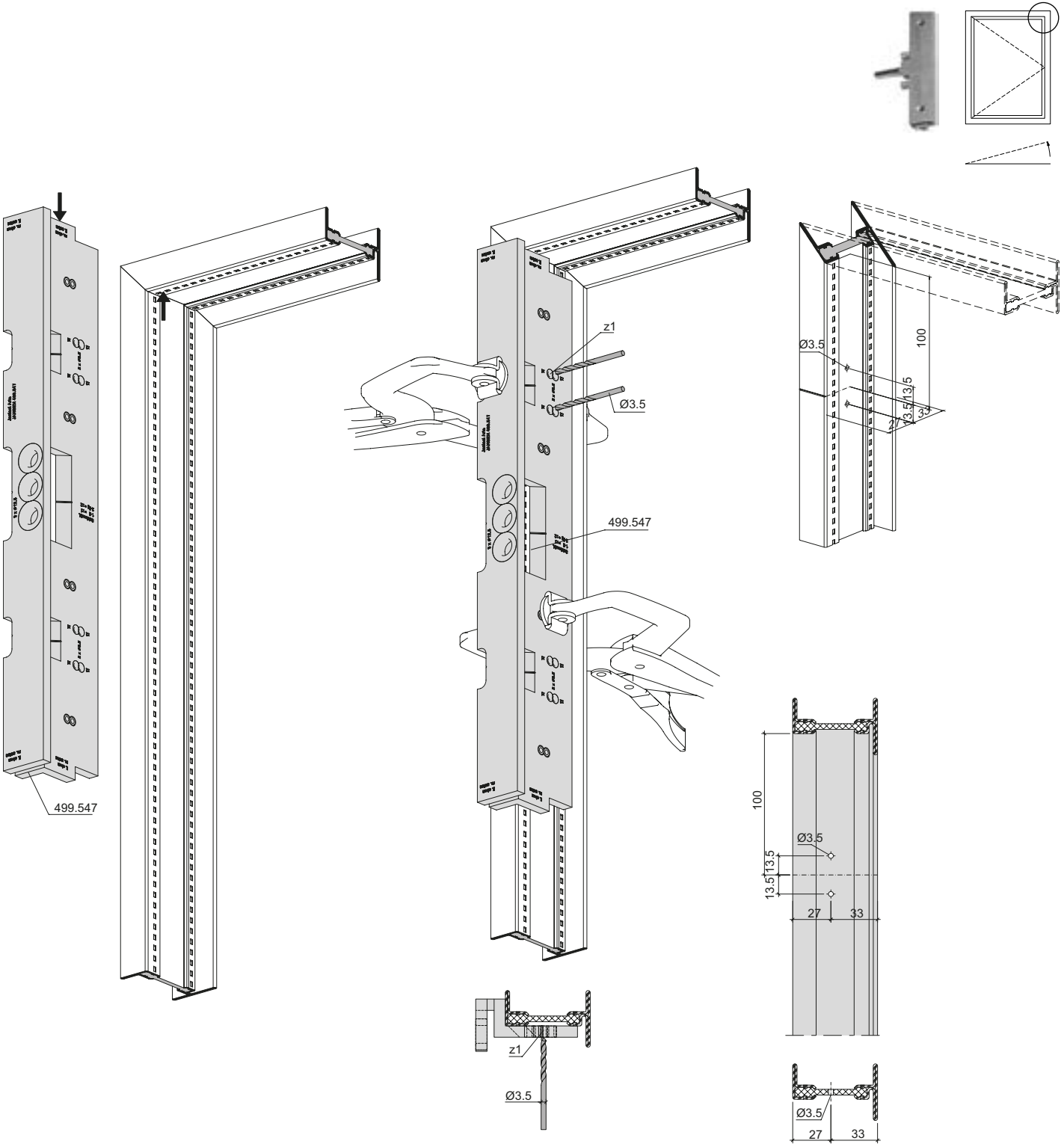
* Verriegelungs-Pilz in geschlossener Position
Markierung für 499.547
* Champignon de verrouillage en position fermée
Marquage pour 499.547
* Mushroom head lock in closed position
Marking for 499.547



Bohrlehre 499.547 für
Schliessbleche 557.309
Rahmen oben

Gabarit de perçage 499.547
pour gâches 557.309
Cadre en haut

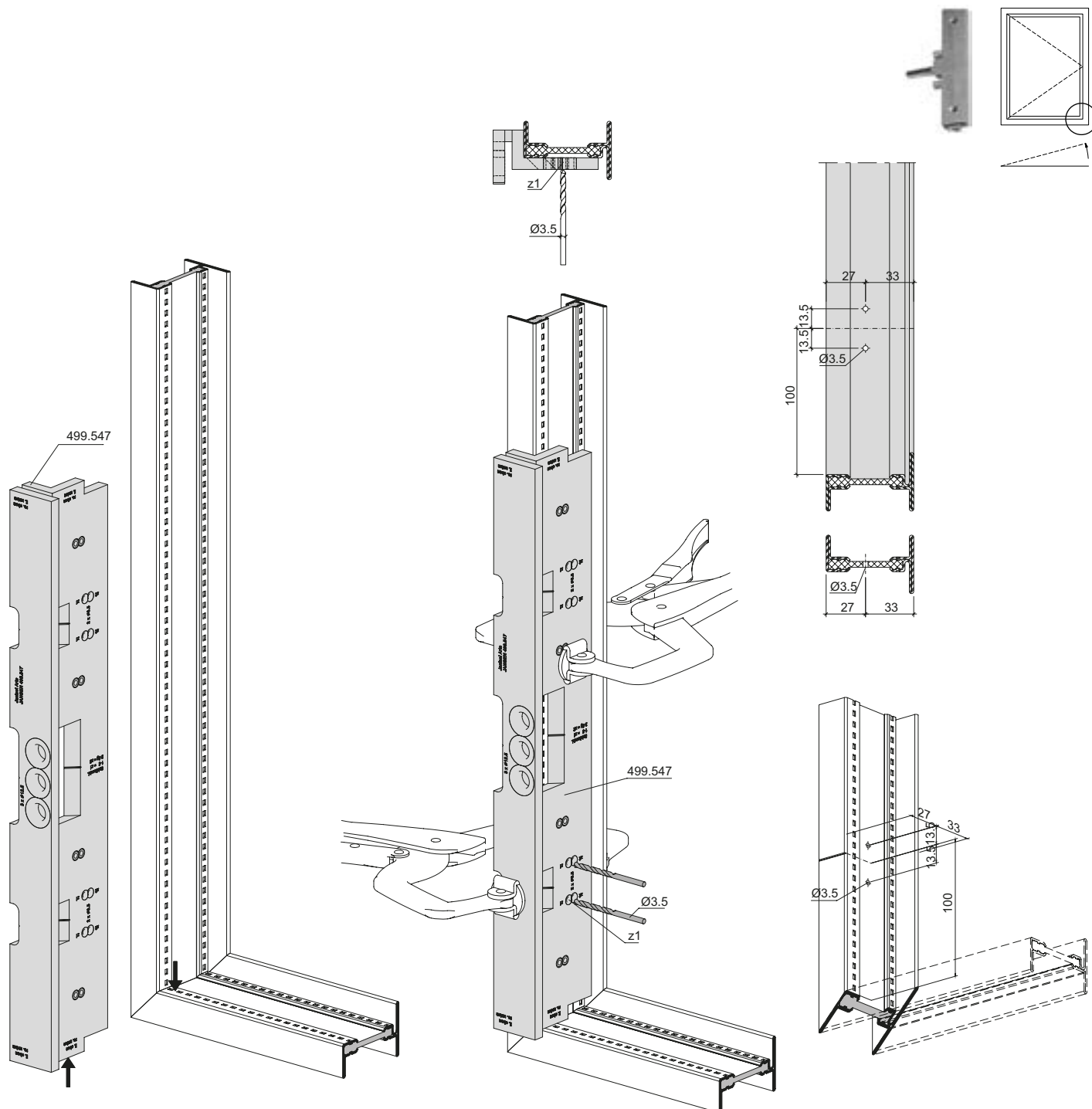
Drilling jig 499.547 for
striking plates 557.309
Frame top



Bohrlehre 499.547 für
Schliessbleche 557.309
Rahmen unten

Gabarit de perçage 499.547
pour gâches 557.309
Cadre en bas

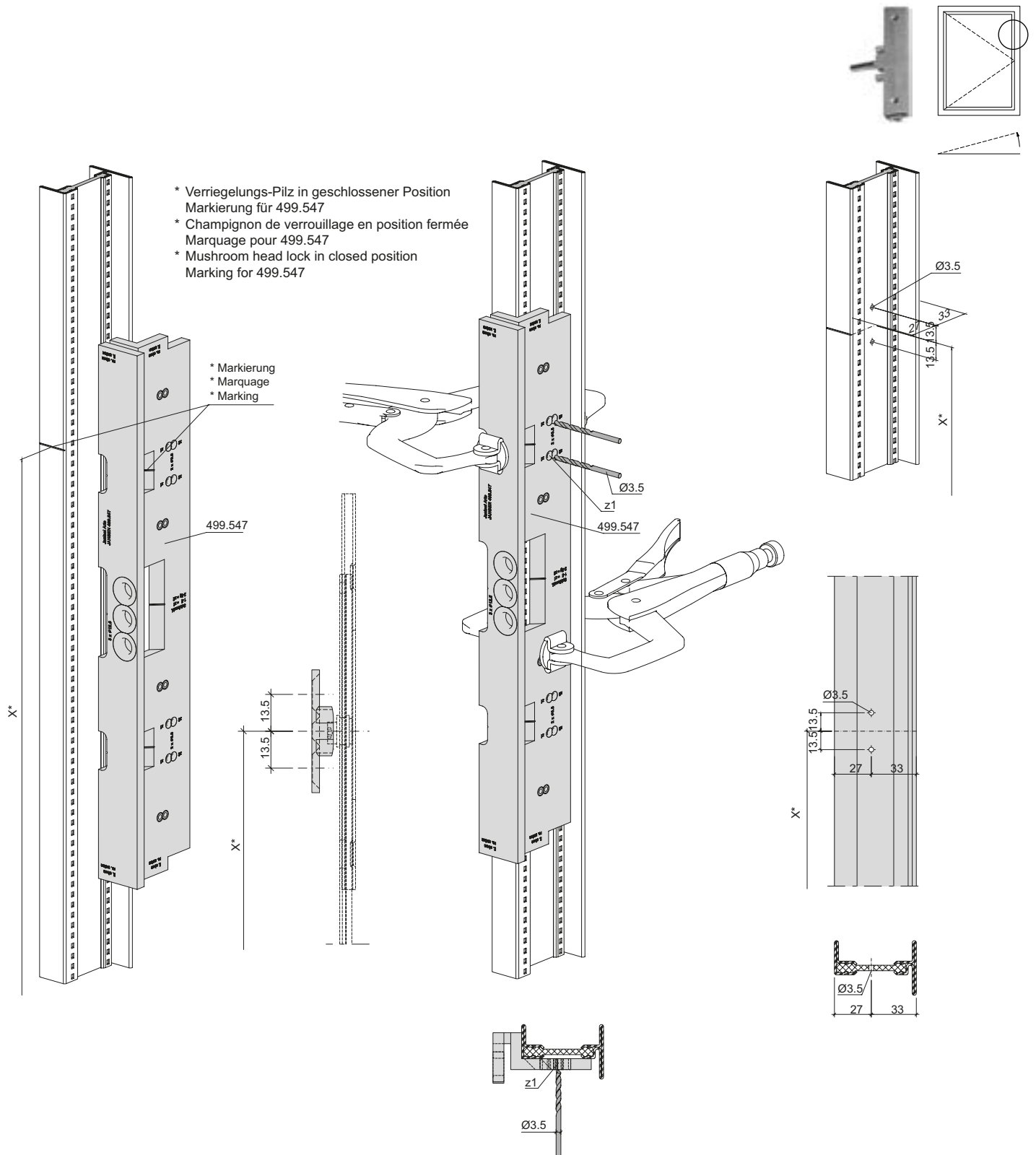
Drilling jig 499.547 for
striking plates 557.309
Frame bottom

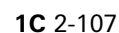


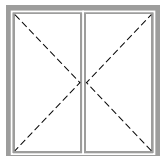
**Bohrlehre 499.547 für
Schliessbleche 557.309
Rahmen**

**Gabarit de perçage 499.547
pour gâches 557.309
Cadre**

**Drilling jig 499.547 for
striking plates 557.309
Frame**







**Drehfenster
nach innen öffnend**

**Fenêtre à la française
ouvrant vers l'intérieur**

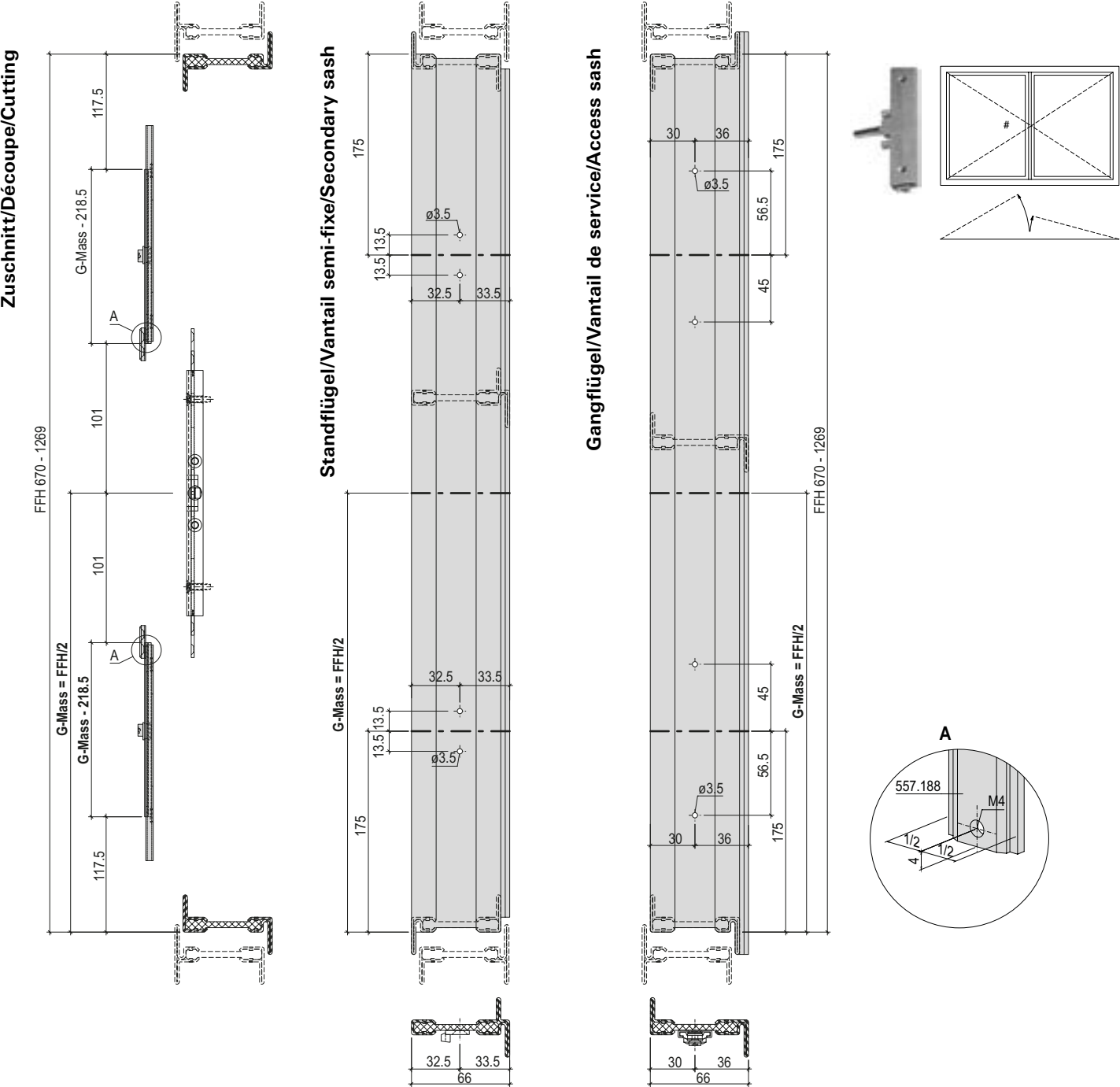
**Side-hung window
inward opening**

Zuschnitt Getriebeverlängerung Bohrbild Getriebeverlängerung und Schliessbleche	Découpe prolongement de la crémonne Schéma de perçage prolongement de la crémonne et gâches	Cutting gearbox extension Drilling pattern gearbox extension and striking plates	110
Bohrlehre 499.547 für Getriebe 557.279/557.280 und Fenstergriff 557.268	Gabarit de perçage 499.547 pour crémonne 557.279/557.280 et poignée de fenêtre 557.268	Drilling jig 499.547 for mechanism 557.279/557.280 and window handle 557.268	114
Bohrlehre 499.547 für Getriebeverlängerung 557.188	Gabarit de perçage 499.547 pour prolongement de la crémonne 557.188	Drilling jig 499.547 for gearbox extension 557.188	116
Bohrlehre 499.547 für Schliessbleche 557.309	Gabarit de perçage 499.547 pour gâches 557.309	Drilling jig 499.547 for striking plates 557.309	120
Bohrlehre 499.547 für Getriebeverlängerung 557.188 mit Kantenriegel 557.139	Gabarit de perçage 499.547 pour prolongement de la crémonne 557.188 avec verrou à bascule 557.139	Drilling jig 499.547 for gearbox extension 557.188 with flush bolt 557.139	124
Bohrlehre 499.547 für Getriebeverlängerung 557.188 ohne Kantenriegel 557.192	Gabarit de perçage 499.436 pour prolongement de la crémonne 557.188 sans verrou à bascule 557.192	Drilling jig 499.547 for gearbox extension 557.188 without flush bolt 557.192	126

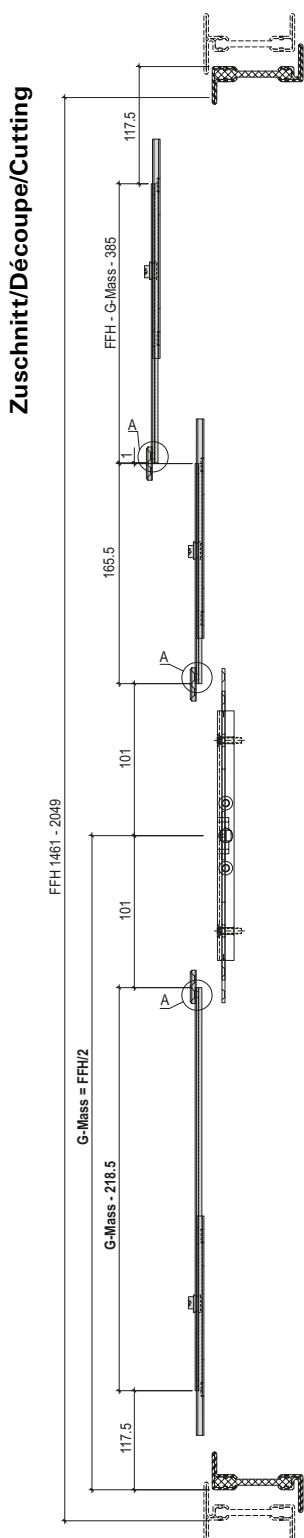
Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 670-1269

Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 670-1269

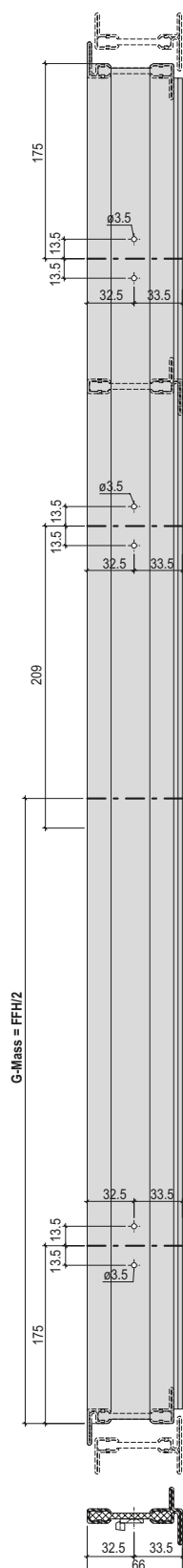
Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 670-1269



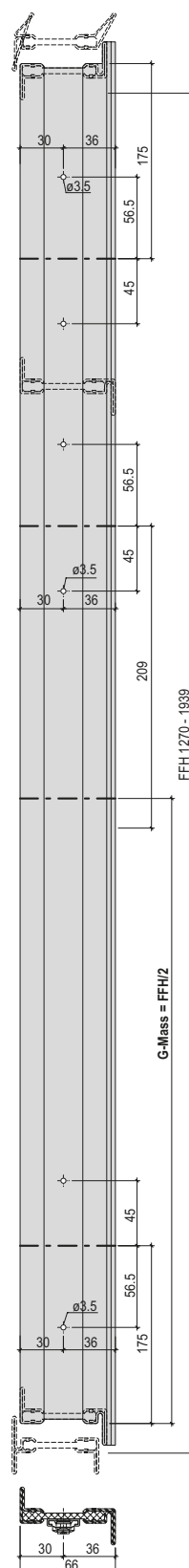
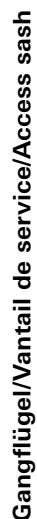
**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1270-1939**



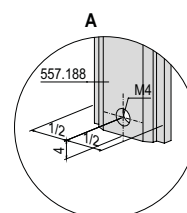
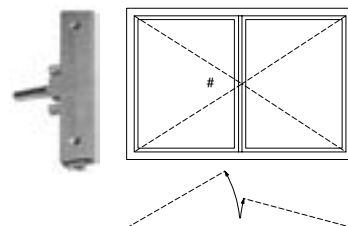
Standflügel/Vantail semi-fixe/Secondary sash



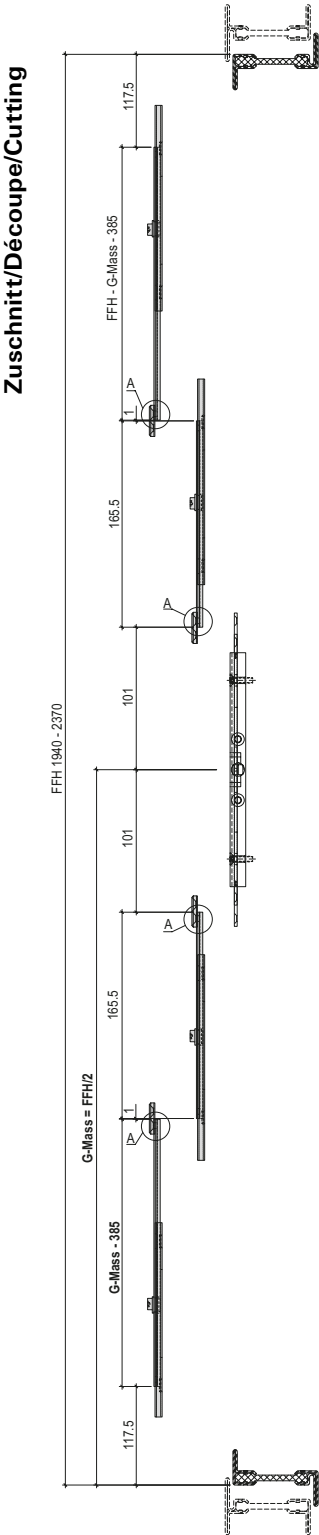
Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 1270-1939



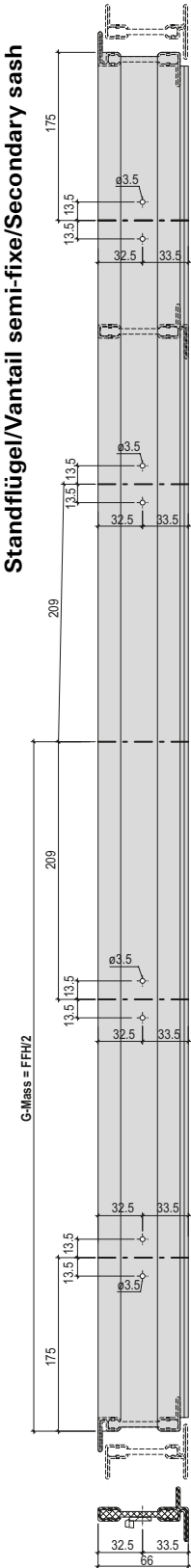
**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1270-1939**



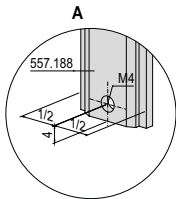
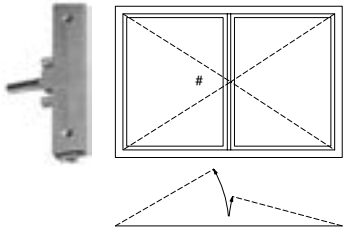
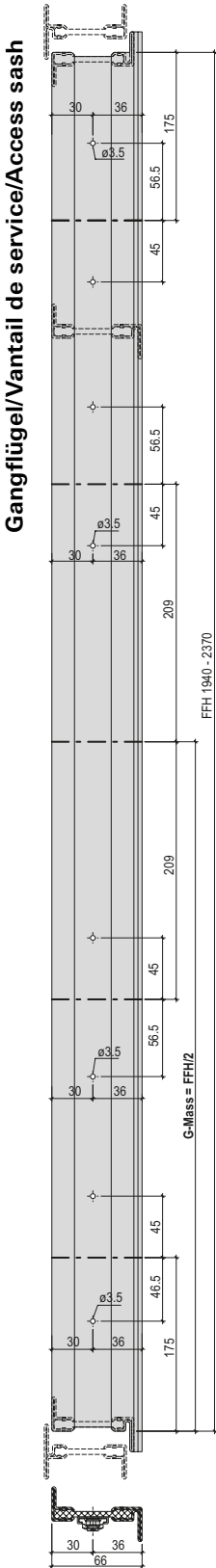
Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1940-2370



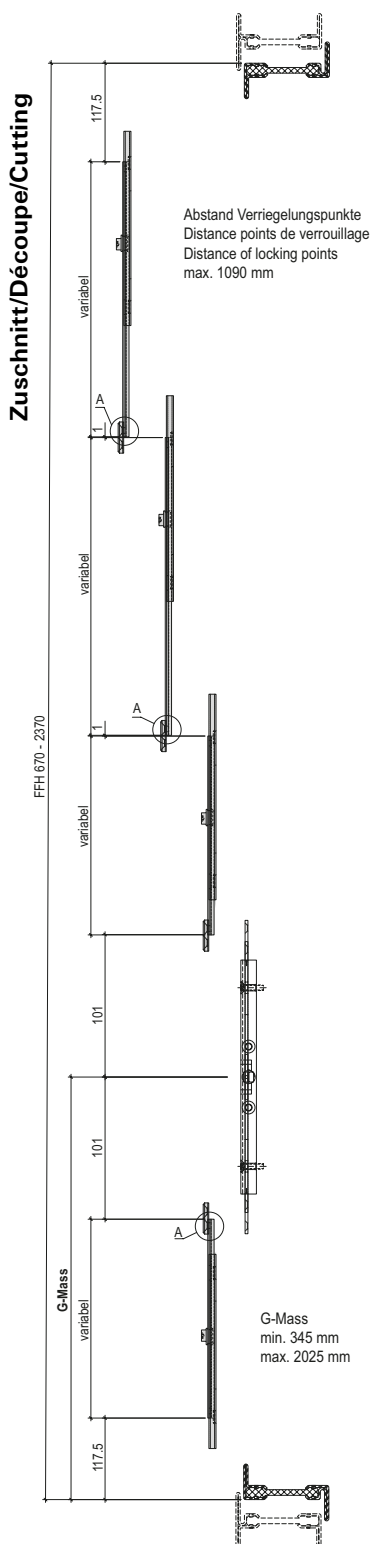
Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 1940-2370



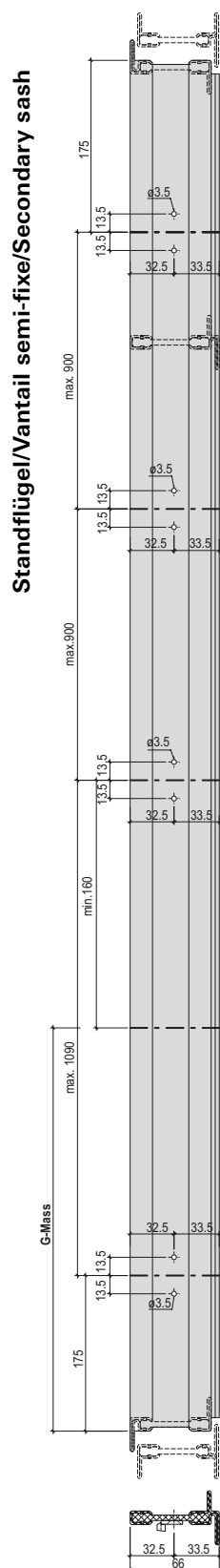
Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1940-2370



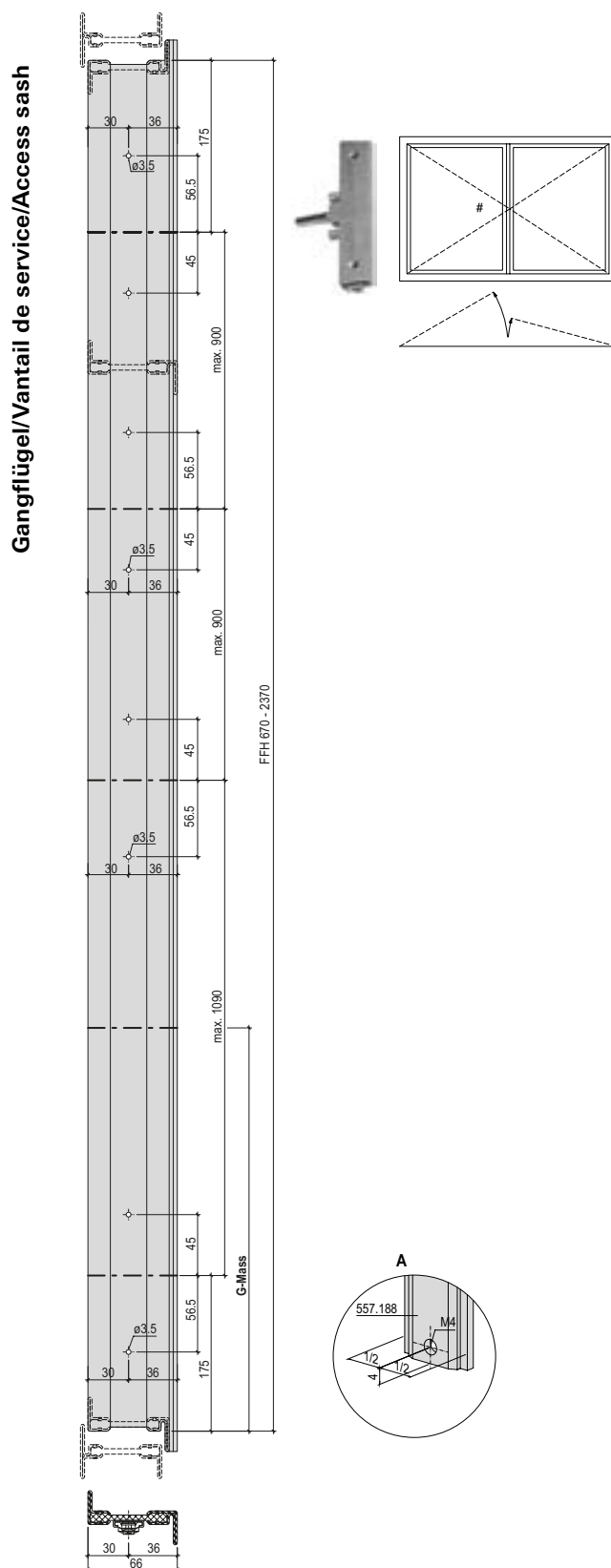
**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 670-2370**



Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 670-2370



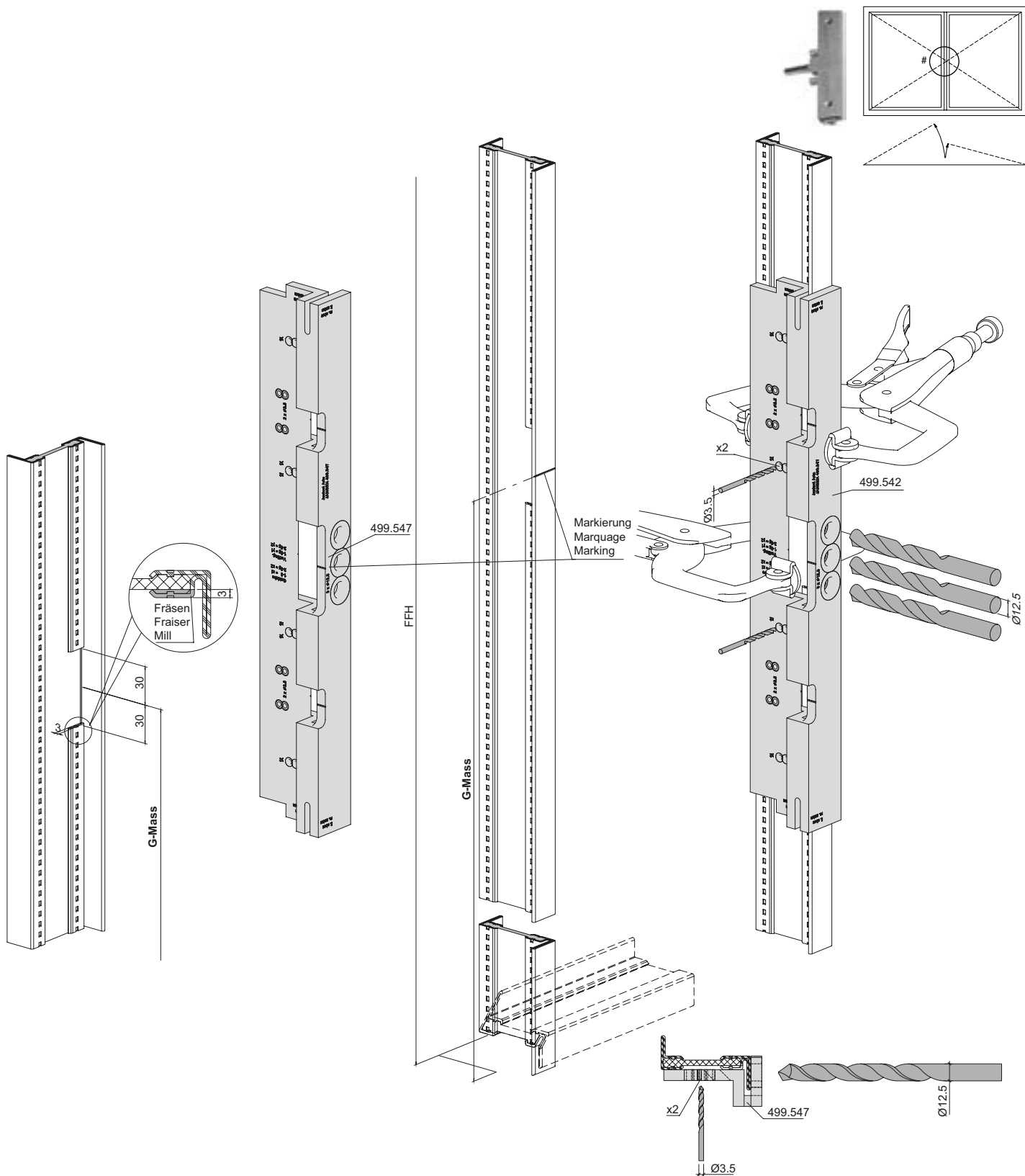
**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 670-2370**



Bohrlehre 499.547 für
Getriebe 557.279/557.280
und Fenstergriff 557.268
Gangflügel

Gabarit de perçage 499.547
pour crémonne 557.279/557.280
et poignée de fenêtre 557.268
Vantail de service

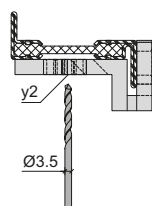
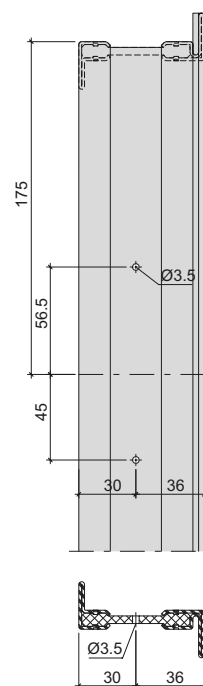
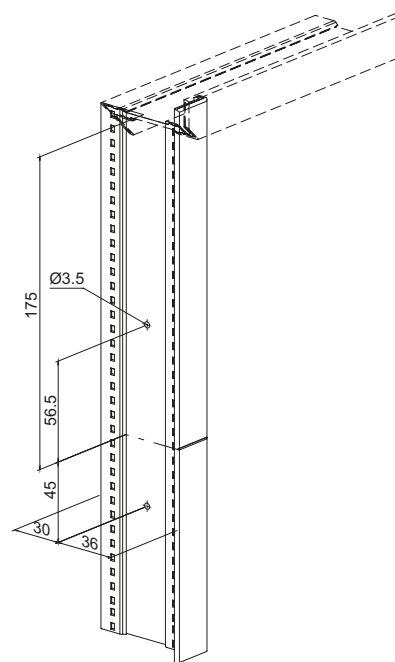
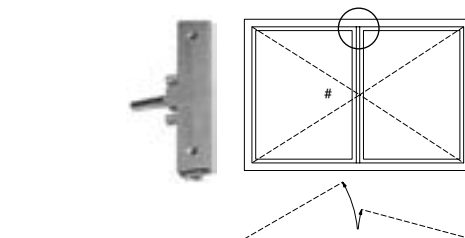
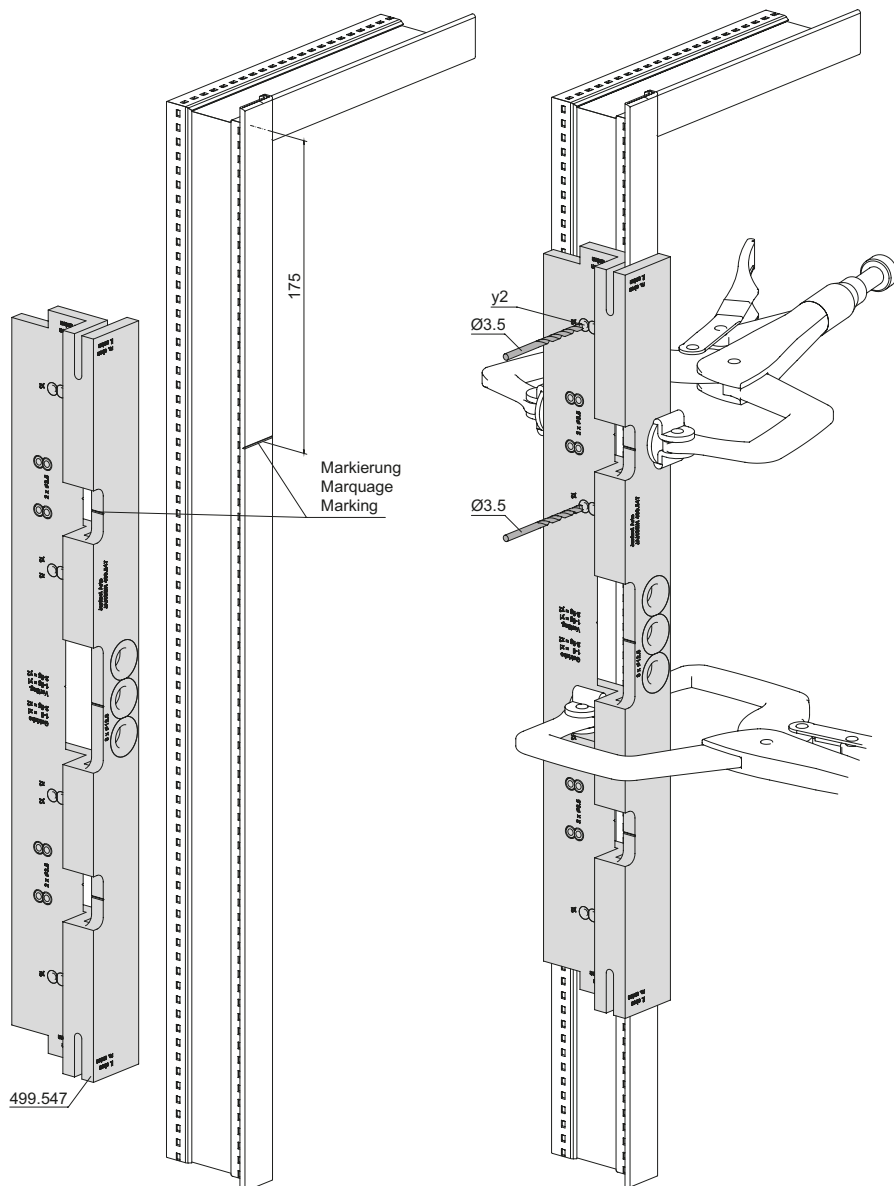
Drilling jig 499.547 for
mechanism 557.279/557.280
and window handle 557.268
Access sash



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Gangflügel oben

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188 Vantail de service en haut

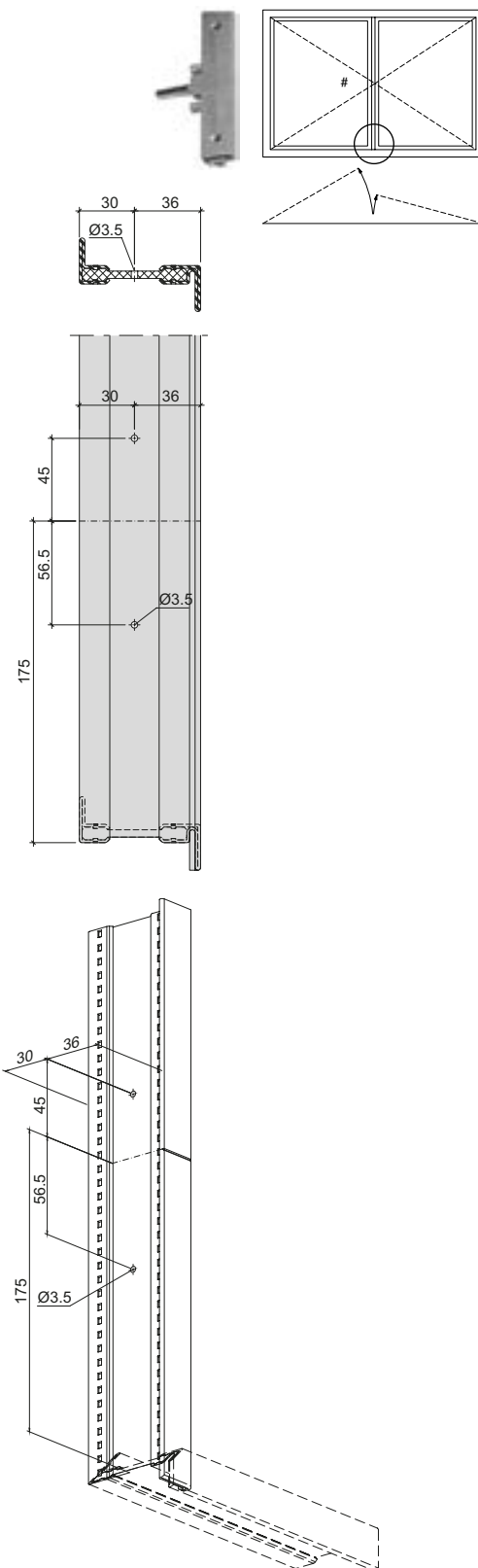
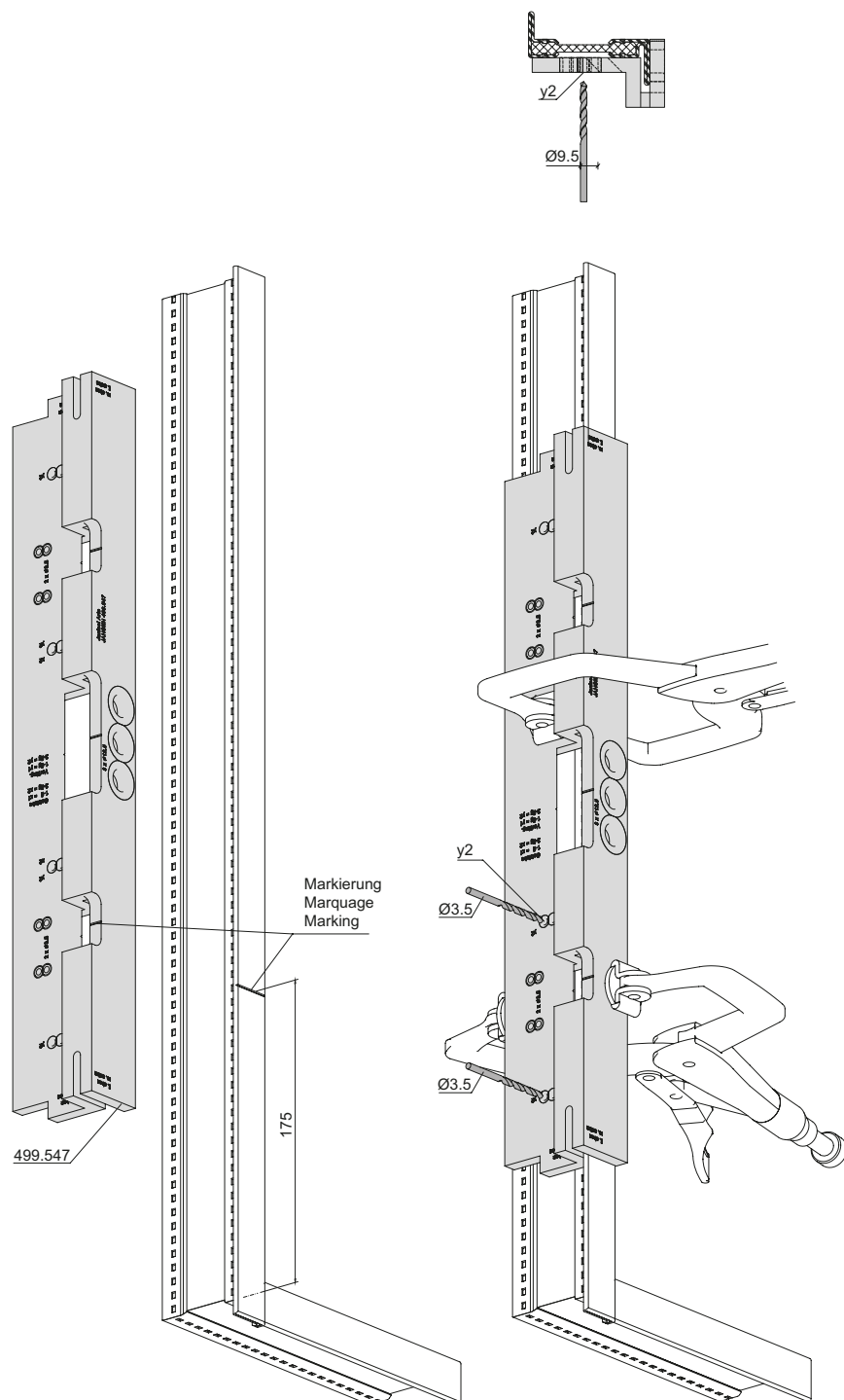
Drilling jig 499.547 for
gearbox extension 557.188
Access sash top



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Gangflügel unten

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188 Vantail de service en bas

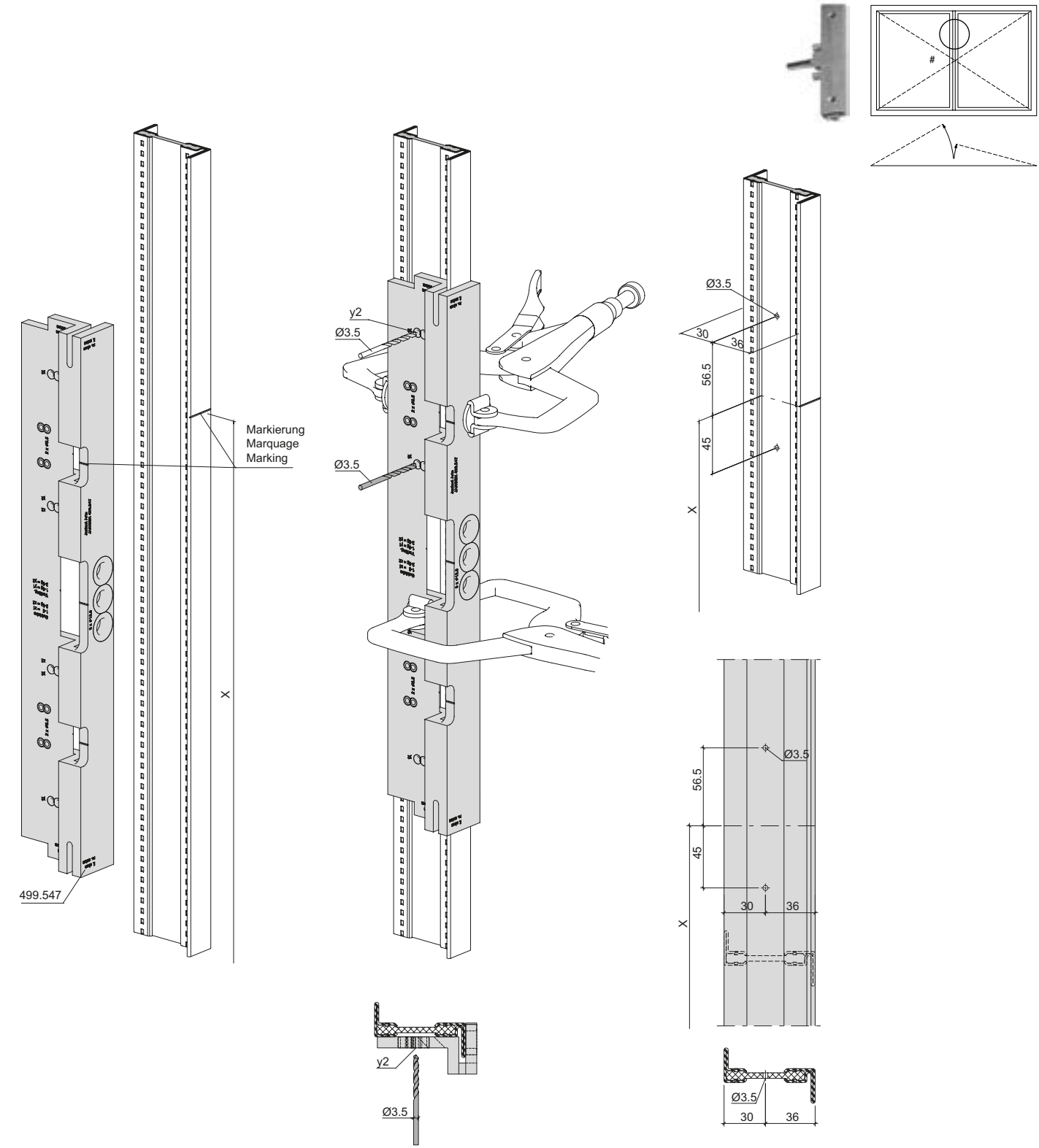
Drilling jig 499.547 for
gearbox extension 557.188
Access sash bottom



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Gangflügel oben

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188 Vantail de service en haut

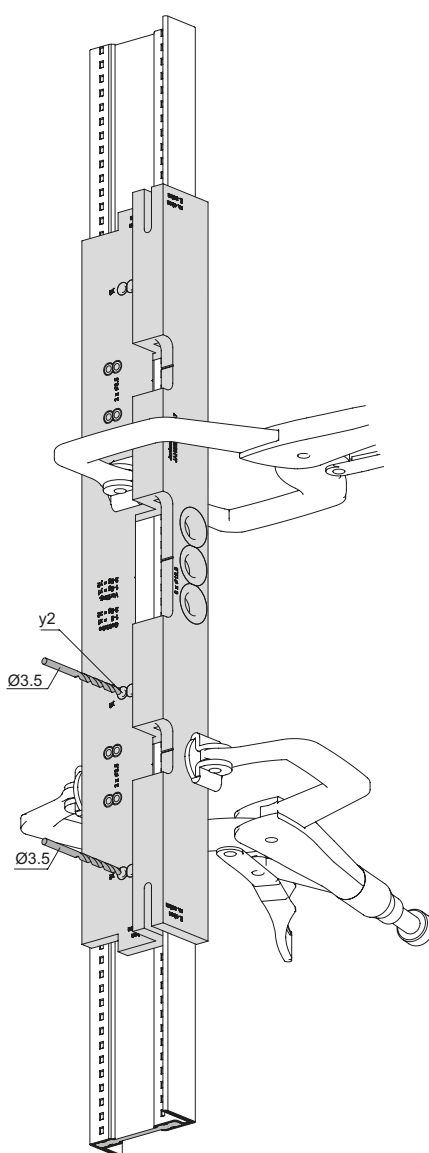
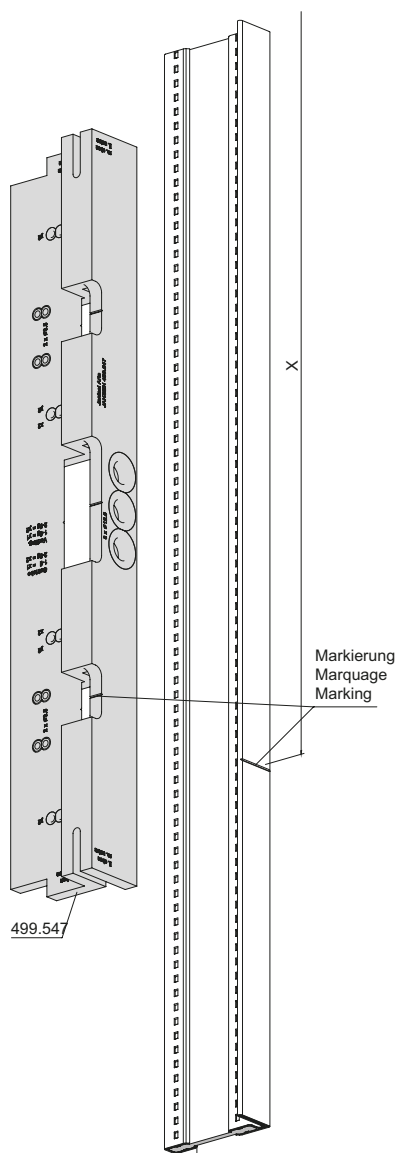
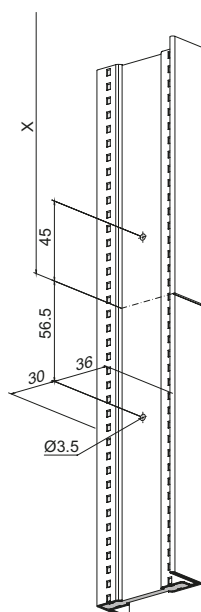
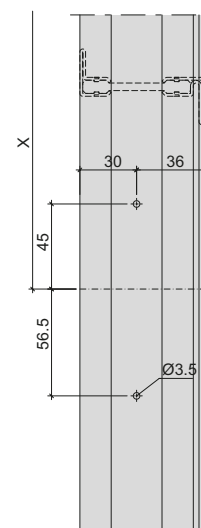
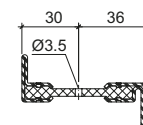
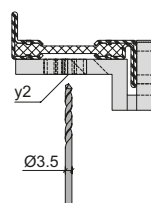
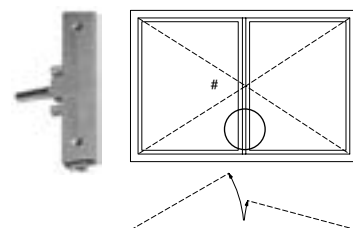
Drilling jig 499.547 for
gearbox extension 557.188
Access sash top



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Gangflügel unten

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188 Vantail de service en bas

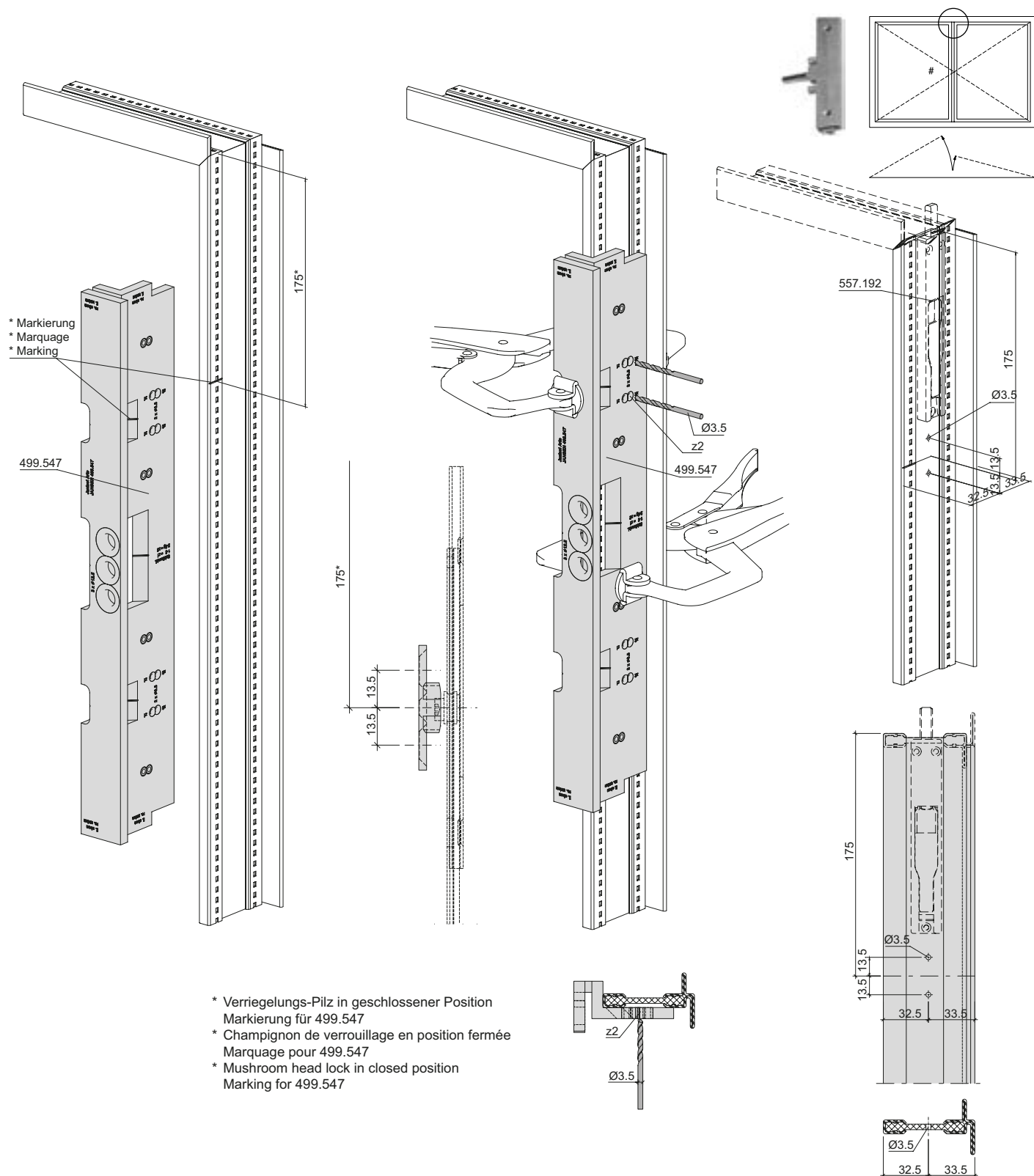
Drilling jig 499.547 for
gearbox extension 557.188
Access sash bottom



**Bohrlehre 499.547 für
 Schliessblech 557.309
 Standflügel oben**

**Gabarit de perçage 499.547
 pour gâche 557.309
 Vantail semi-fixe en haut**

**Drilling jig 499.547 for
 striking plate 557.309
 Secondary sash top**

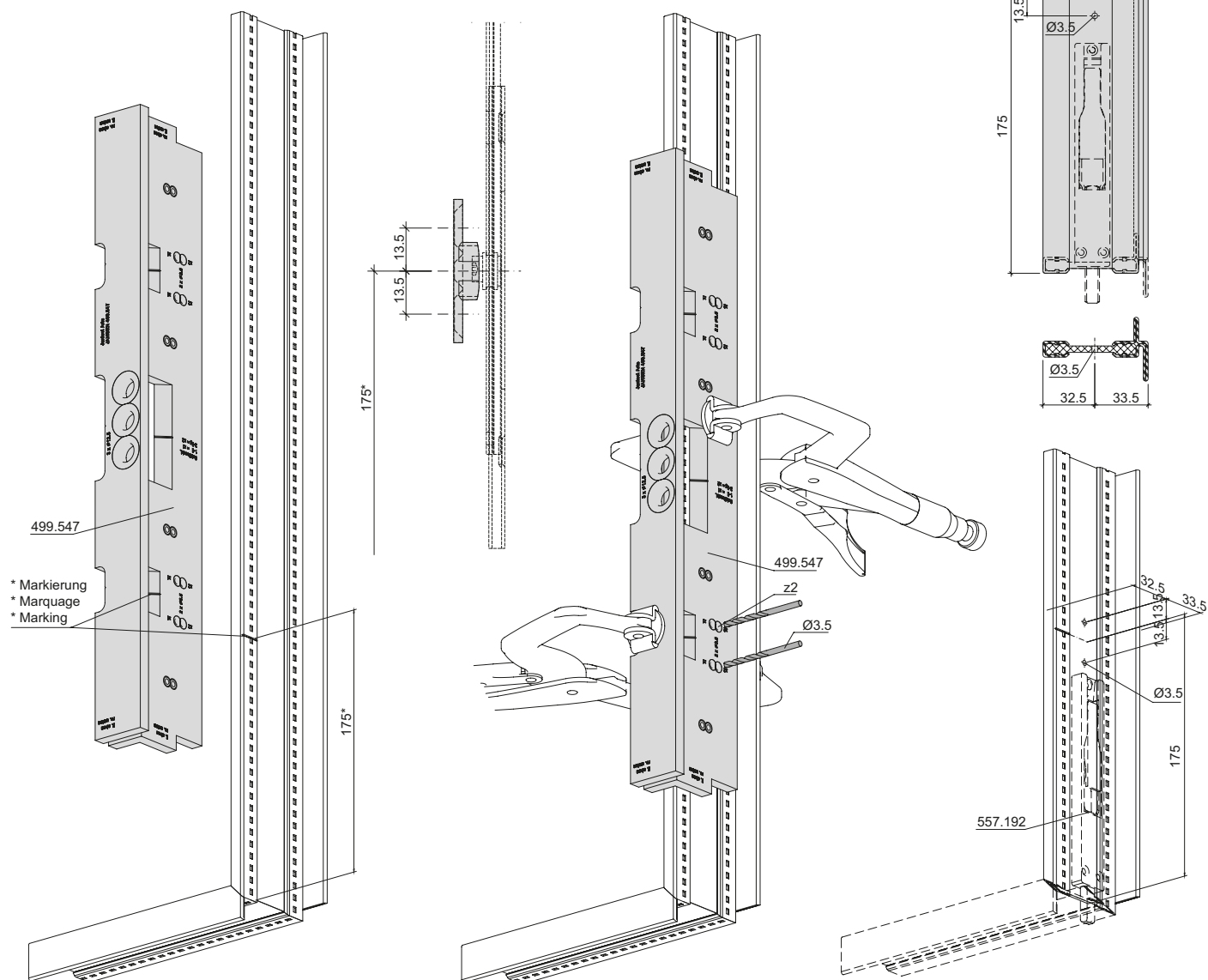


Bohrlehre 499.547 für
Schliessblech 557.309
Standflügel unten

Gabarit de perçage 499.547
pour gâche 557.309
Vantail semi-fixe en bas

Drilling jig 499.547 for
striking plate 557.309
Secondary sash bottom

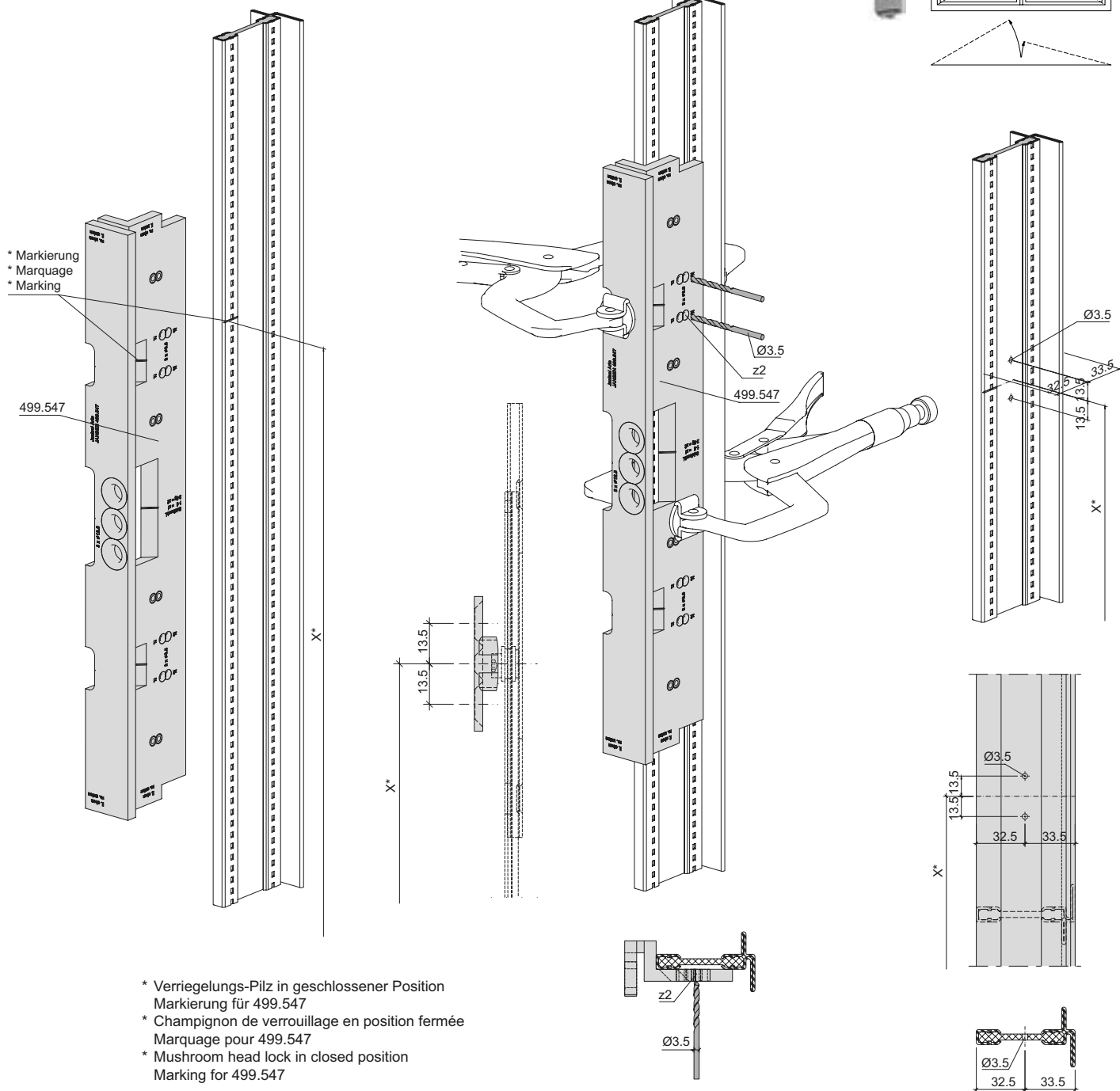
- * Verriegelungs-Pilz in geschlossener Position
 Markierung für 499.547
- * Champignon de verrouillage en position fermée
 Marquage pour 499.547
- * Mushroom head lock in closed position
 Marking for 499.547



**Bohrlehre 499.547 für
 Schliessbleche 557.309
 Standflügel oben**

**Gabarit de perçage 499.547
 pour gâche 557.309
 Vantail semi-fixe en haut**

**Drilling jig 499.547 for
 striking plate 557.309
 Secondary sash top**

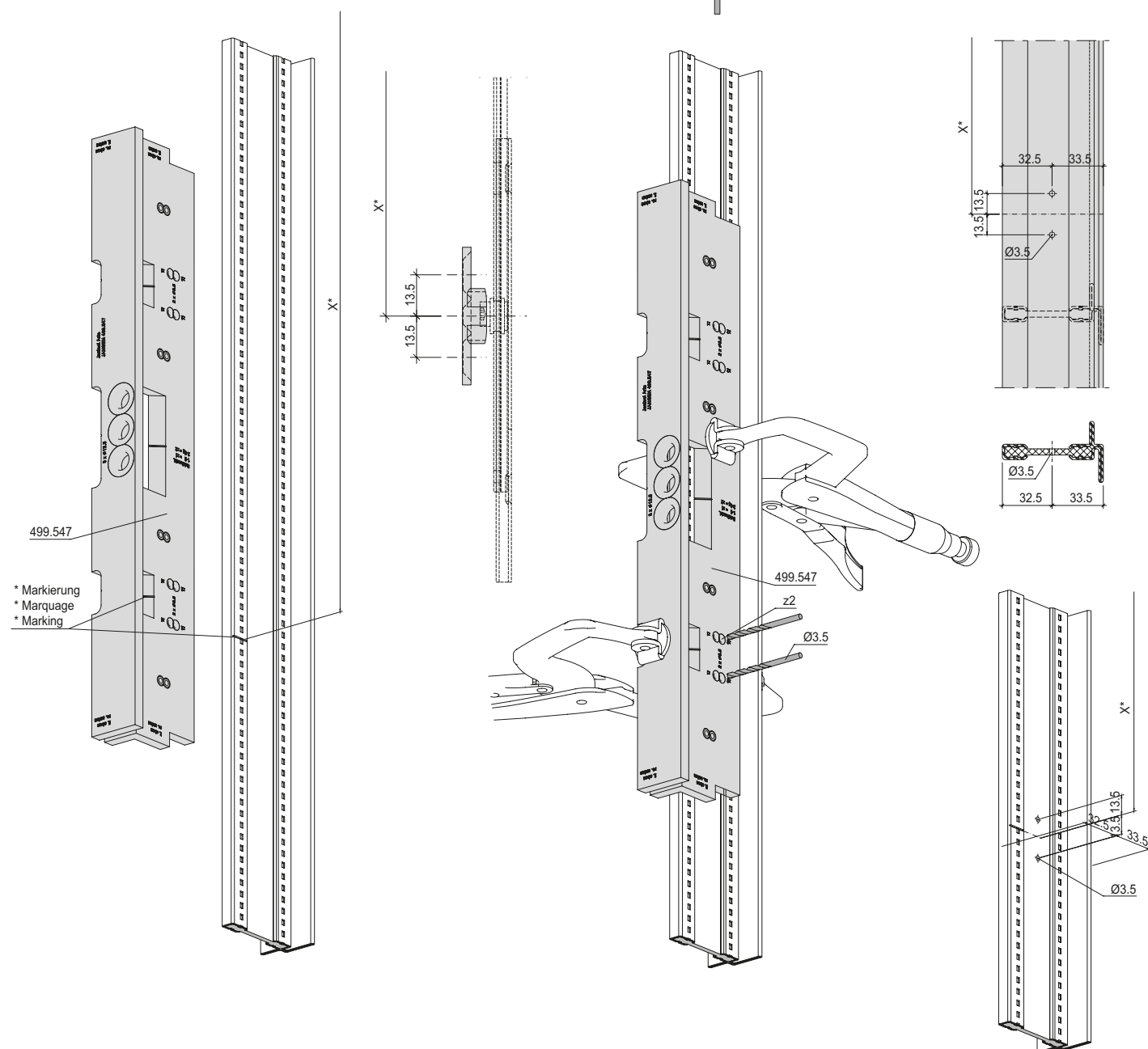


Bohrlehre 499.547 für
Schliessbleche 557.309
Standflügel unten

Gabarit de perçage 499.547
pour gâche 557.309
Vantail semi-fixe en bas

Drilling jig 499.547 for
striking plate 557.309
Secondary sash bottom

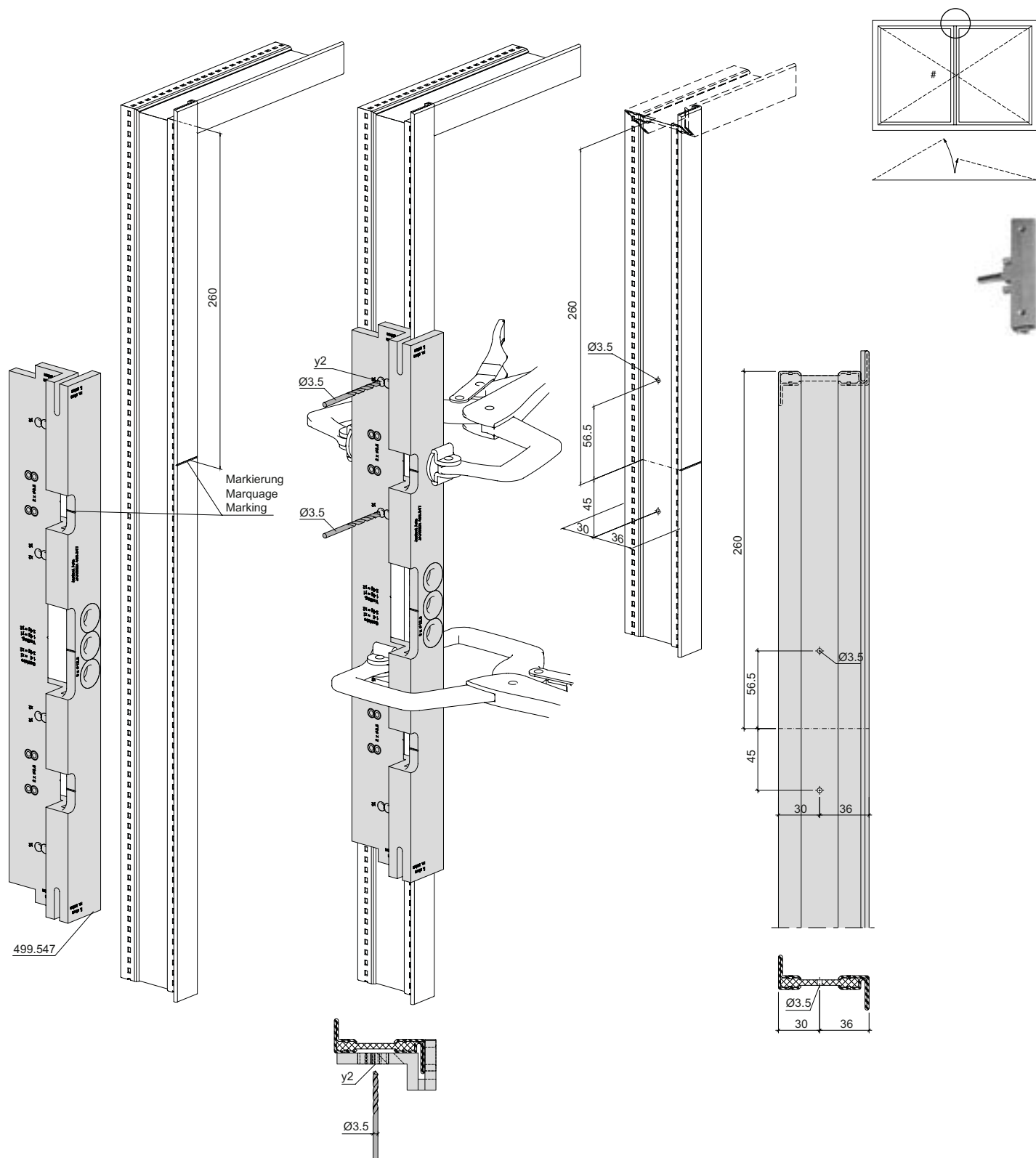
- * Verriegelungs-Pilz in geschlossener Position
 Markierung für 499.547
- * Champignon de verrouillage en position fermée
 Marquage pour 499.547
- * Mushroom head lock in closed position
 Marking for 499.547



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
mit Kantenriegel 557.139
Gangflügel oben

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188
avec verrou à bascule 557.139
Vantail de service en haut

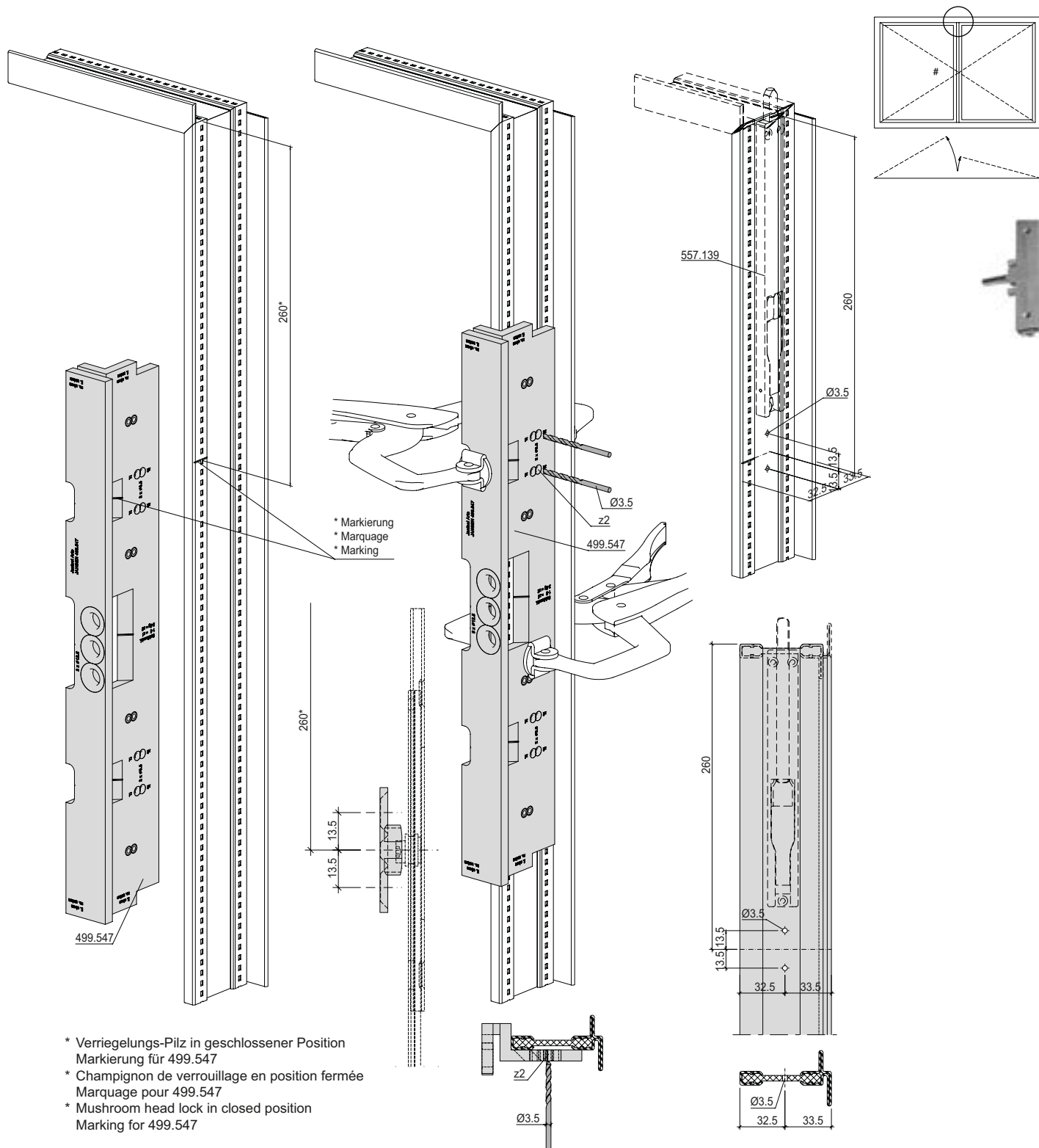
Drilling jig 499.547 for
gearbox extension 557.188
with flush bolt 557.139
Access sash top



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
mit Kantenriegel 557.139
Standflügel oben

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188
avec verrou à bascule 557.139
Vantail semi-fixe en haut

Drilling jig 499.547 for
gearbox extension 557.188
with flush bolt 557.139
Secondary sash top



**Bohrlehre 499.547 für
 Getriebeverlängerung 557.188
 ohne Kantenriegel 557.192
 Gangflügel oben**

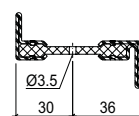
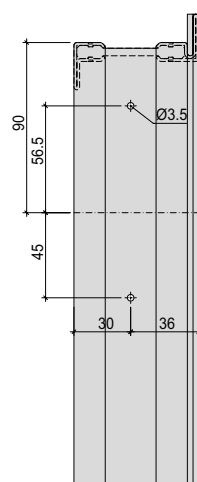
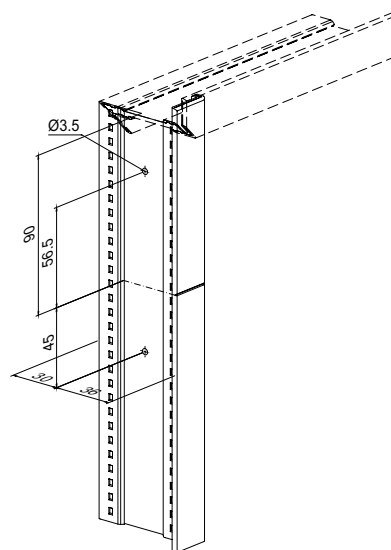
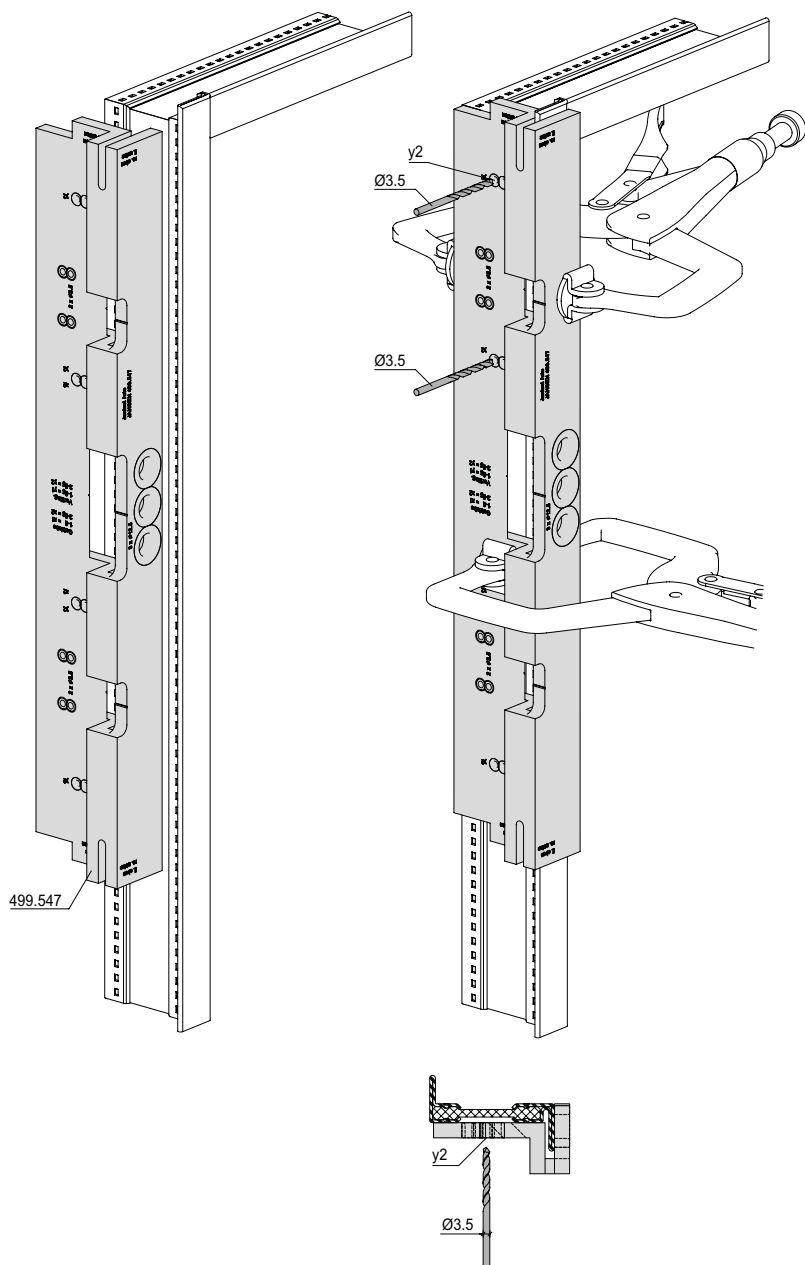
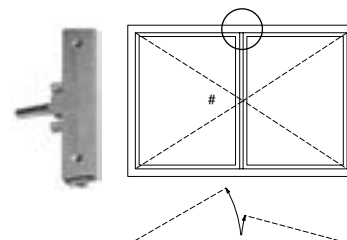
**Gabarit de perçage 499.436 pour
 prolongement de la crémonne
 557.188
 sans verrou à bascule 557.192
 Vantail de service en haut**

**Drilling jig 499.547 for
 gearbox extension 557.188
 without flush bolt 557.192
 Access sash top**

In Kombination mit Zusatzverriegelung 557.172
 (siehe Seite 90)

En combinaison avec un verrouillage supplémentaire
 557.172 (voir page 90)

In combination with additional lock 557.172
 (see page 90)



**Bohrlehre 499.547 für
 Schliessblech 557.309
 ohne Kantenriegel 557.192
 Standflügel oben**

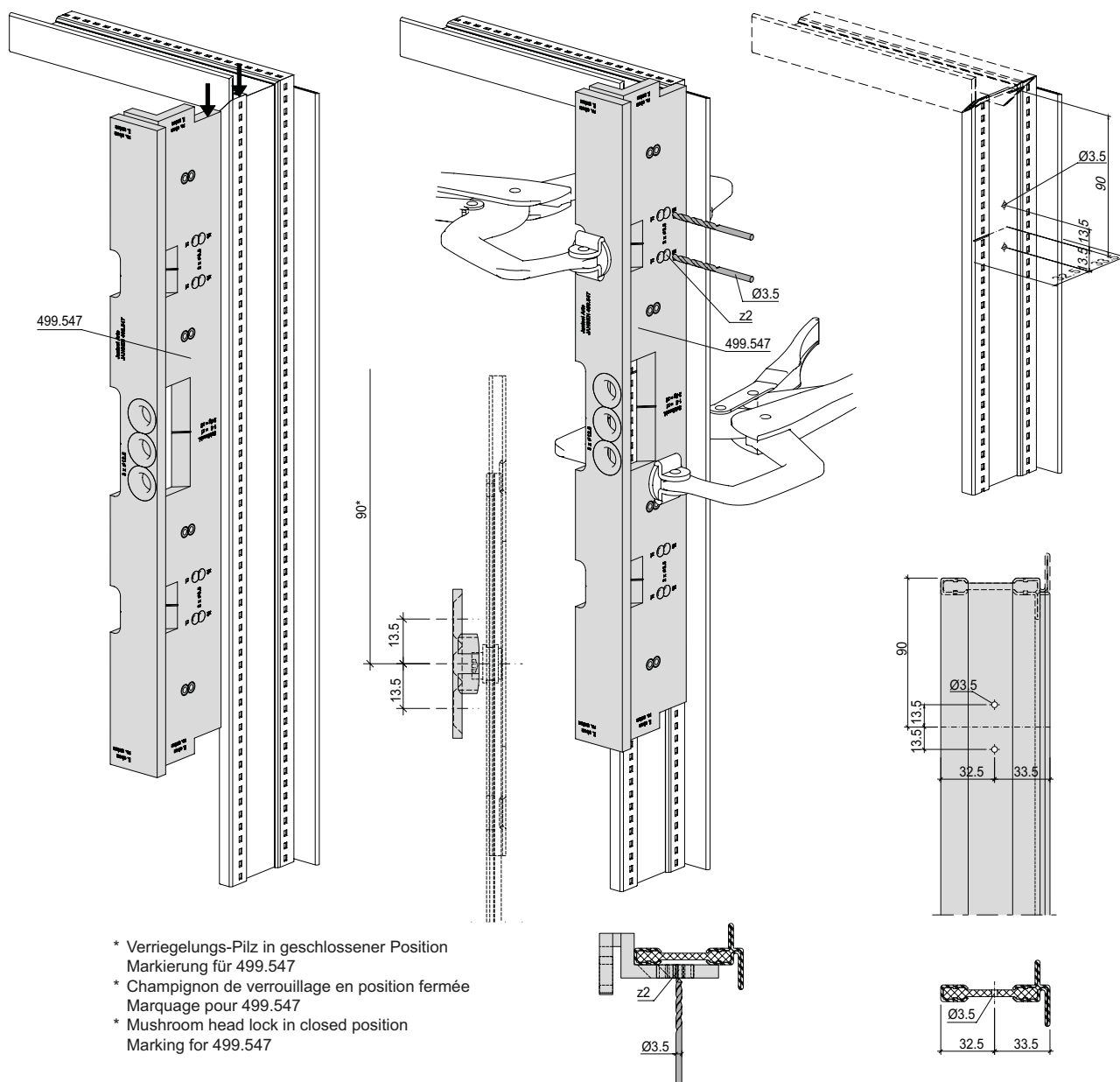
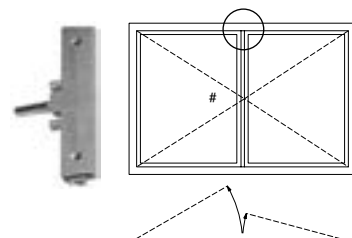
**Gabarit de perçage 499.547 pour
 gâchede fermeture 557.309
 sans verrou à bascule 557.192
 Vantail semi-fixe en haut**

**Drilling jig 499.547 for
 striking plate 557.309
 without flush bolt 557.192
 Secondary sash top**

In Kombination mit Zusatzverriegelung 557.172
 (siehe Seite 90)

En combinaison avec un verrouillage supplémentaire
 557.172 (voir page 90)

In combination with additional lock 557.172
 (see page 90)

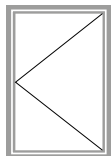


- * Verriegelungs-Pilz in geschlossener Position
 Markierung für 499.547
- * Champignon de verrouillage en position fermée
 Marquage pour 499.547
- * Mushroom head lock in closed position
 Marking for 499.547

Beschlageinbau
Montage des ferrures
Installation of fittings

Janisol Arte
Janisol Arte
Janisol Arte

2.0



Drehfenster nach aussen öffnend	Fenêtre à la française ouvrant vers l'extérieur	Side-hung window outward opening	
Zuschnitt Getriebeverlängerung Bohrbild Getriebeverlängerung und Schliessbleche	Découpe prolongement de la crémonne Schéma de perçage prolongement de la crémonne et gâches	Cutting gearbox extension Drilling pattern gearbox extension and striking plates	130
Bohrlehre 499.547 für Getriebe 557.279/557.280 und Fenstergriff 557.268	Gabarit de perçage 499.547 pour crémonne 557.279/557.280 et poignée de fenêtre 557.268	Drilling jig 499.547 for mechanism 557.279/557.280 and window handle 557.268	134
Bohrlehre 499.547 für Getriebeverlängerung 557.188	Gabarit de perçage 499.547 pour prolongement de la crémonne 557.188	Drilling jig 499.547 for gearbox extension 557.188	136
Bohrlehre 499.547 für Schliessbleche 557.309	Gabarit de perçage 499.547 pour gâches 557.309	Drilling jig 499.547 for striking plates 557.309	140

Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 500-1269

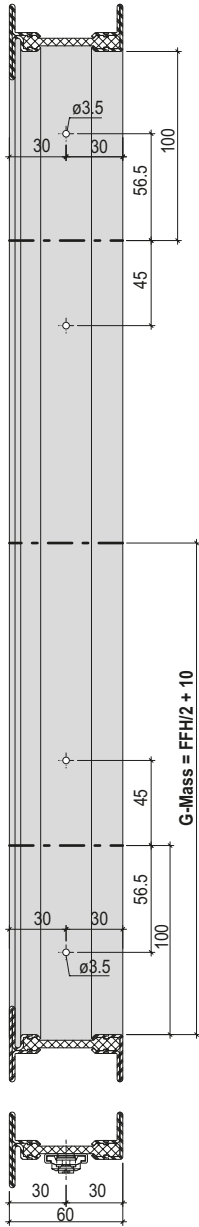
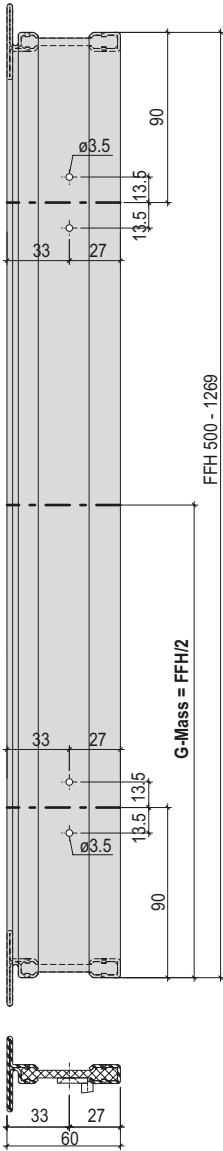
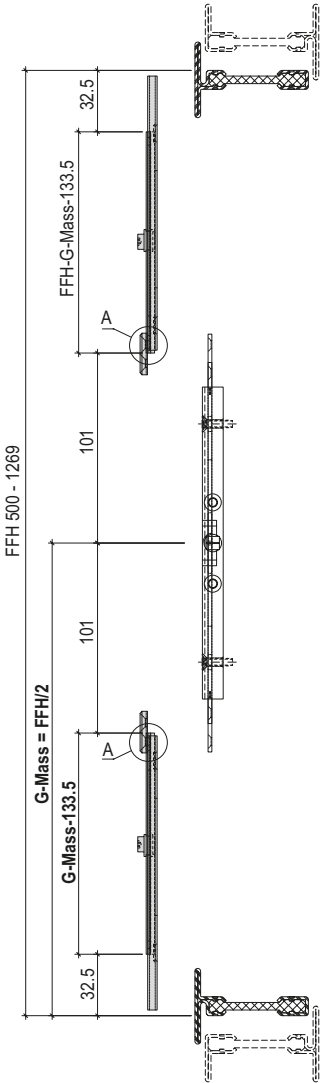
Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 500-1269

Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 500-1269

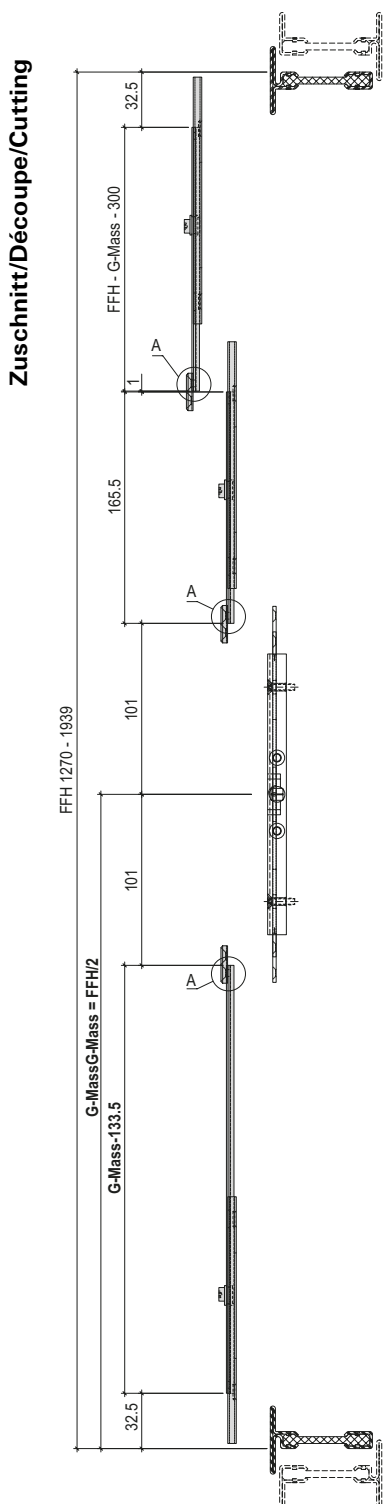
Zuschnitt/Découpe/Cutting

Rahmen/Cadre/Frame

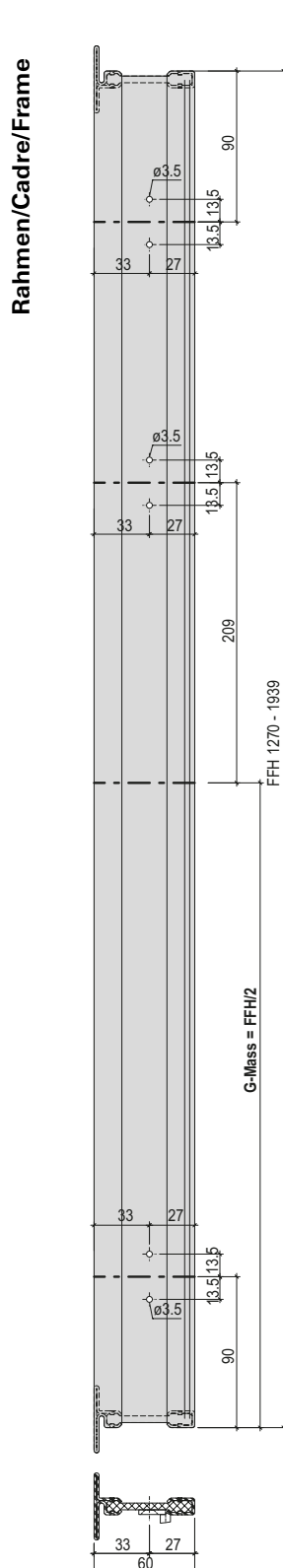
Flügel/Vantail/Sash



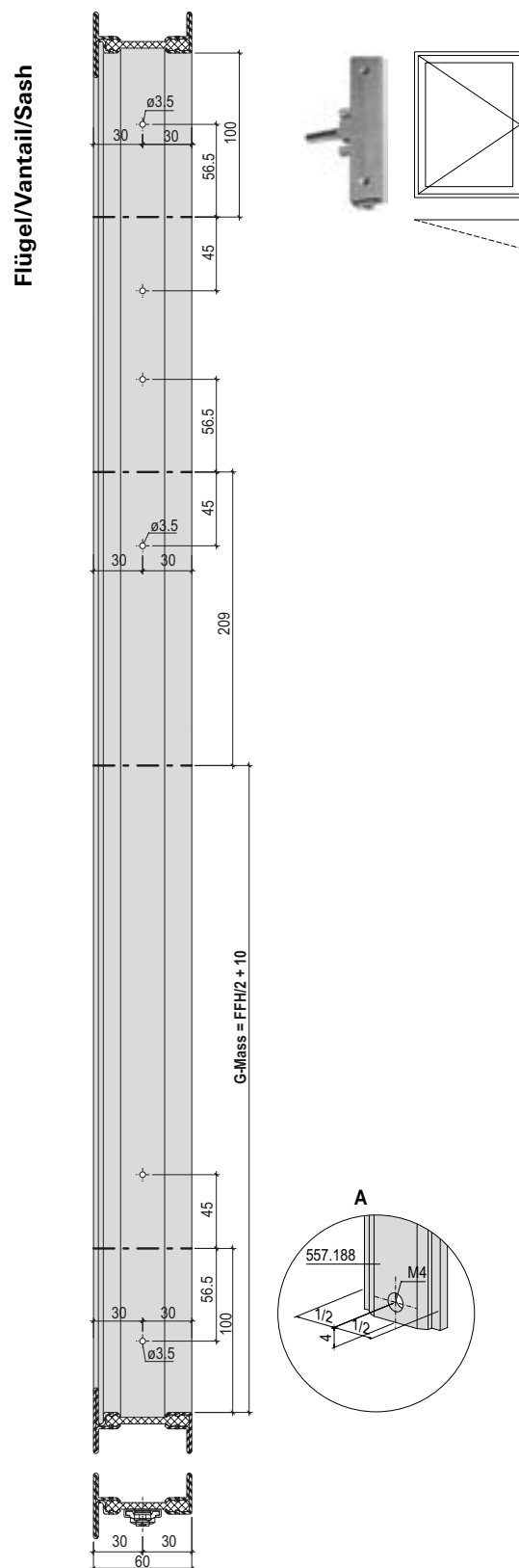
Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1270-1939



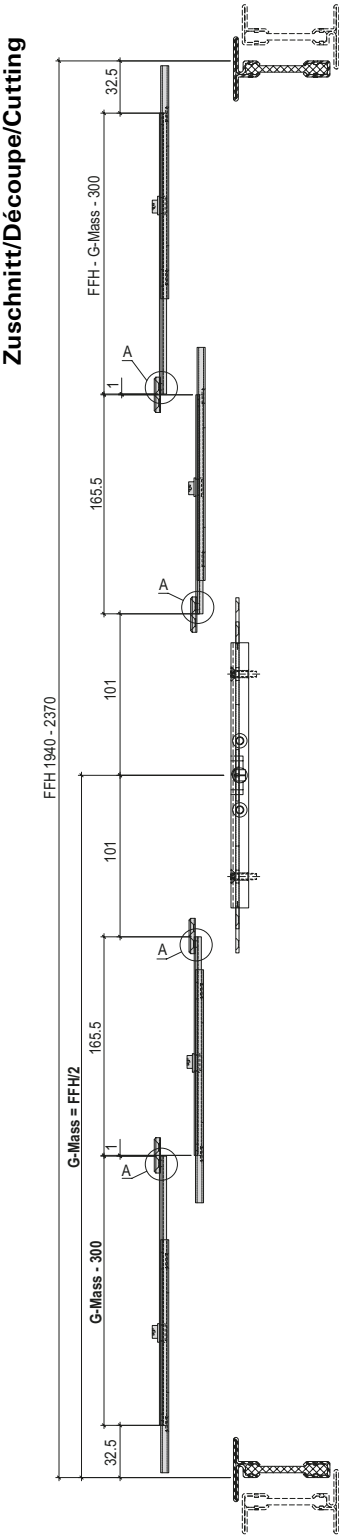
Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 1270-1939



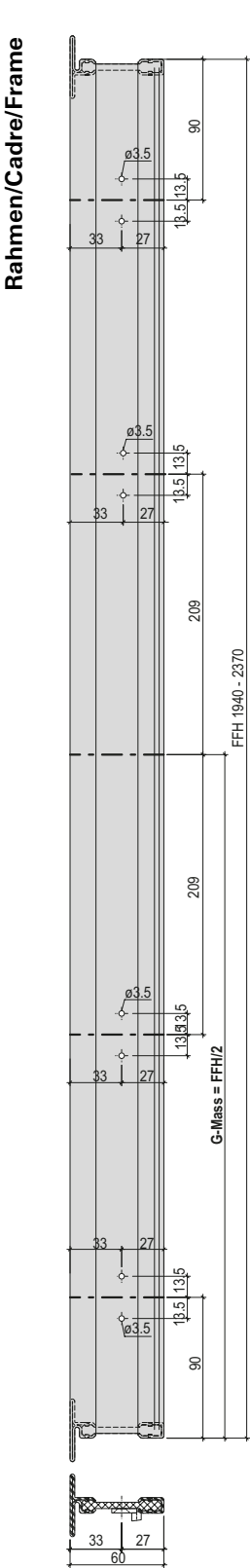
Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1270-1939



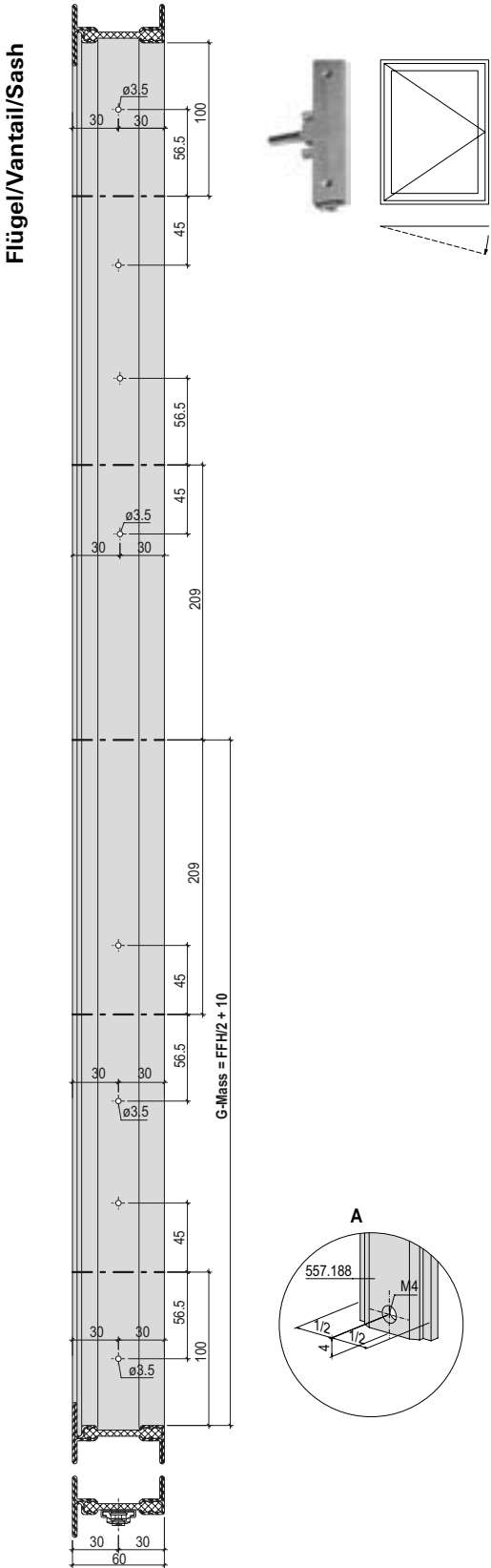
Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1940-2370



Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 1940-2370



Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1940-2370

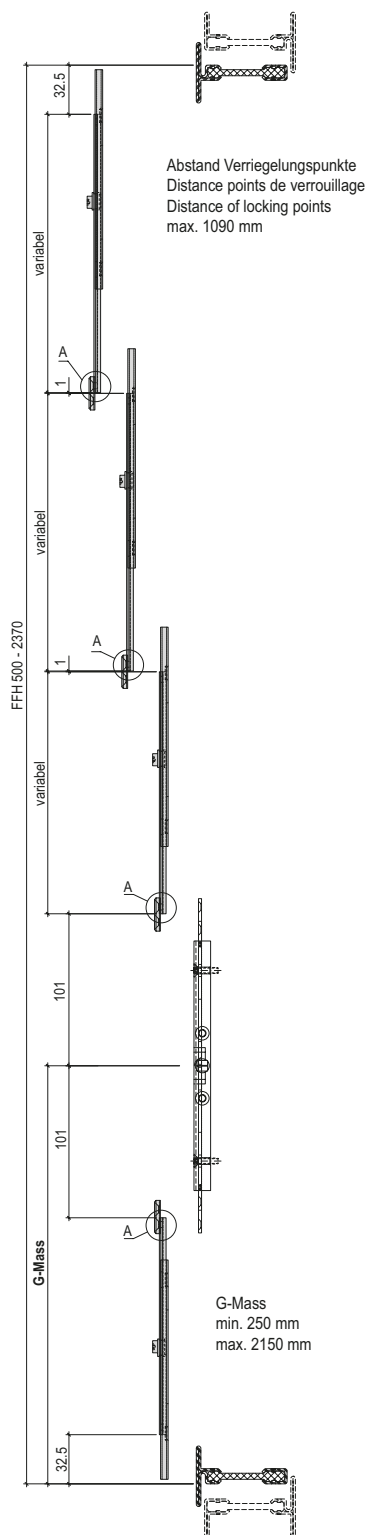


**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 500-2370**

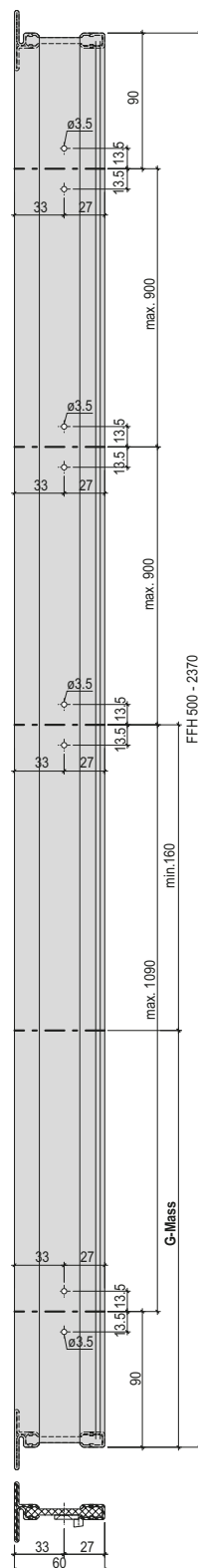
Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 500-2370

**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 500-2370**

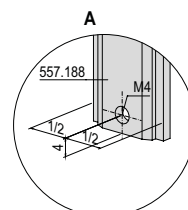
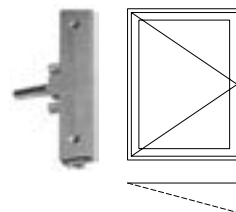
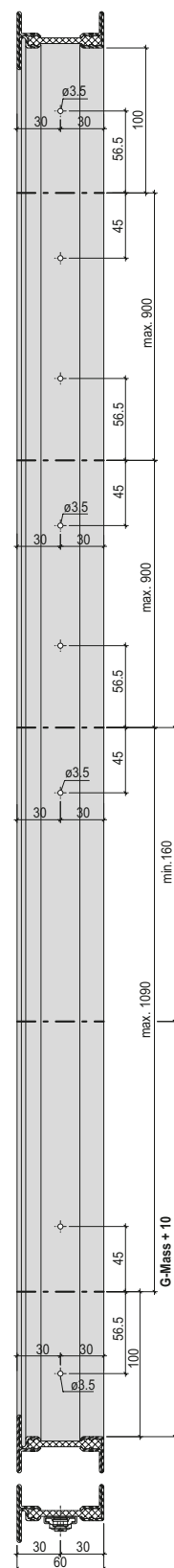
Zuschnitt/Découpe/Cutting



Rahmen/Cadre/Frame



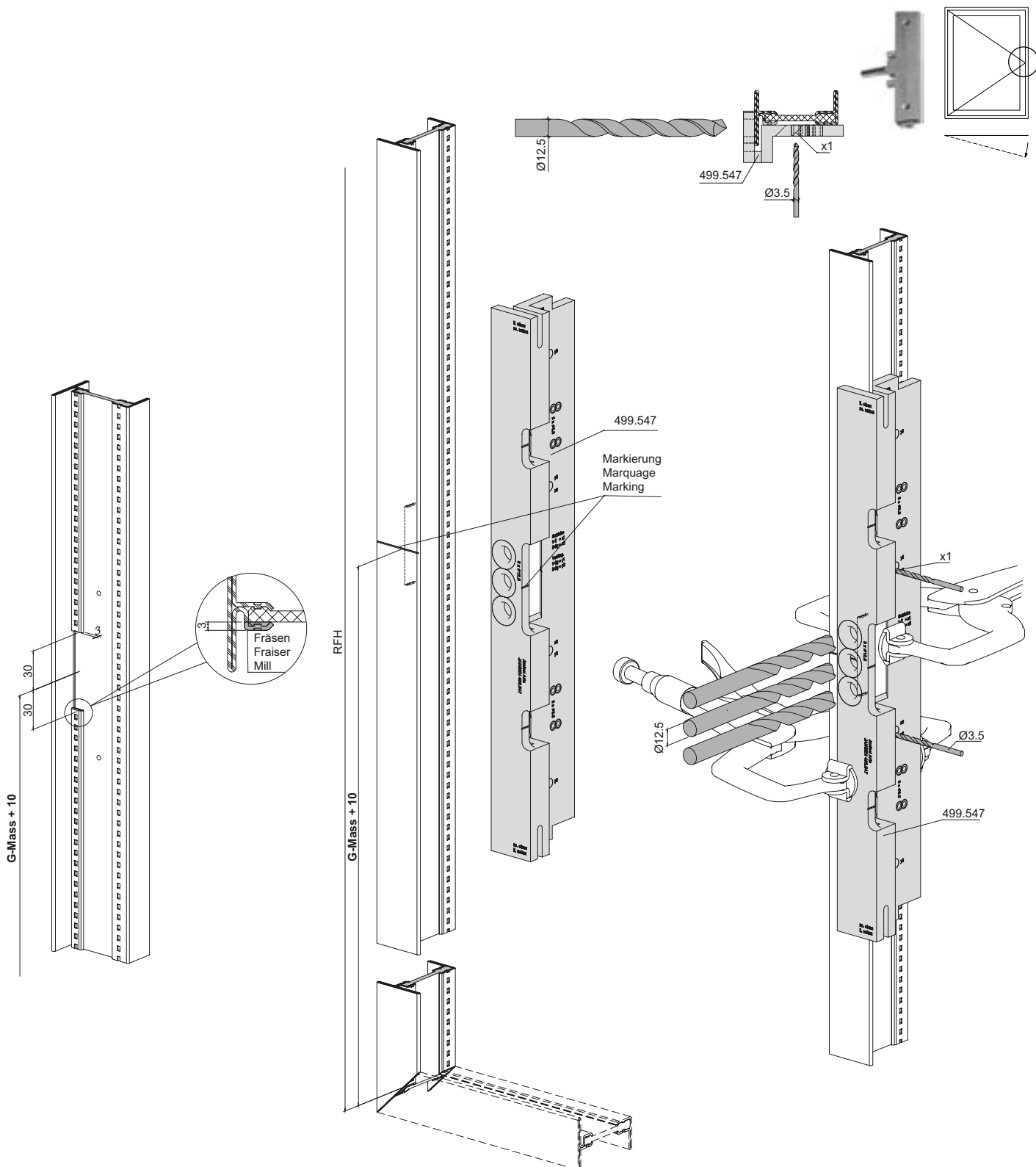
Flügel/Vantail/Sash



Bohrlehre 499.547 für
Getriebe 557.279/557.280
und Fenstergriff 557.268
Rahmen

Gabarit de perçage 499.547
pour crémonne 557.279/555.280 et
poignée de fenêtre 557.268
Cadre

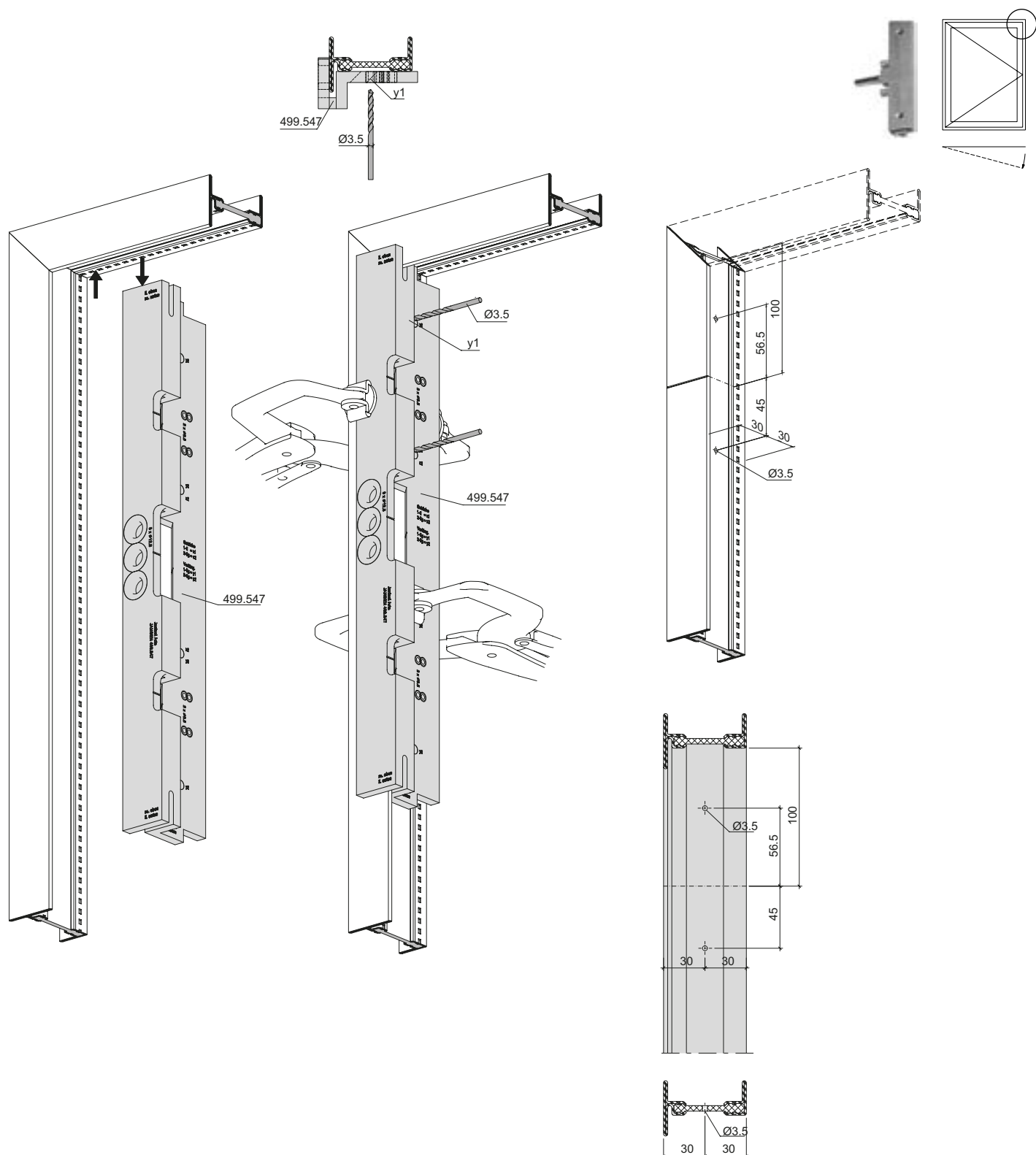
Drilling jig 499.547 for
mechanism 557.279/555.280
and window handle 557.268
Frame



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Rahmen oben

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188 Cadre en haut

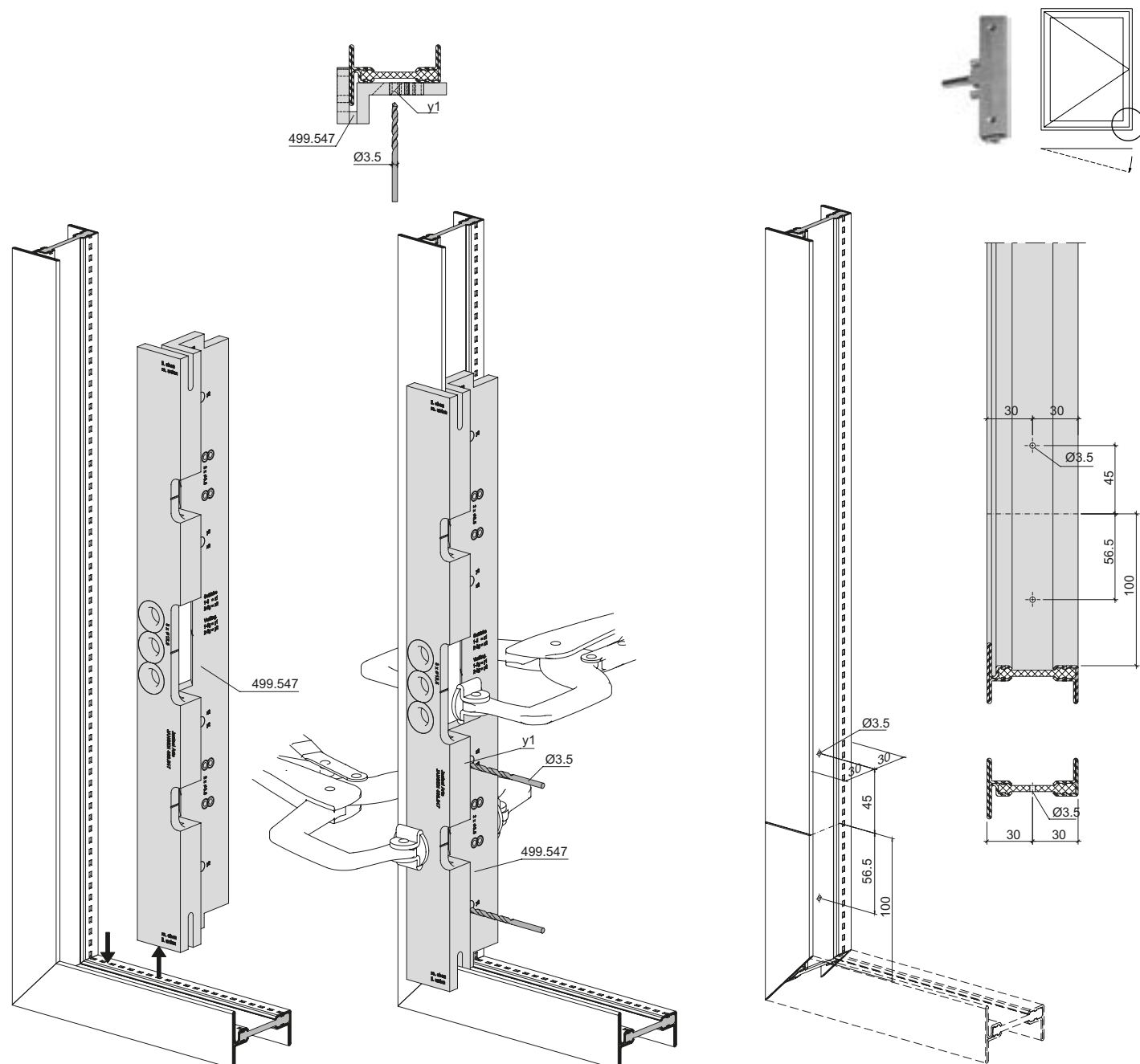
Drilling jig 499.547 for
gearbox extension 557.188
Frame top



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Rahmen unten

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188 Cadre en bas

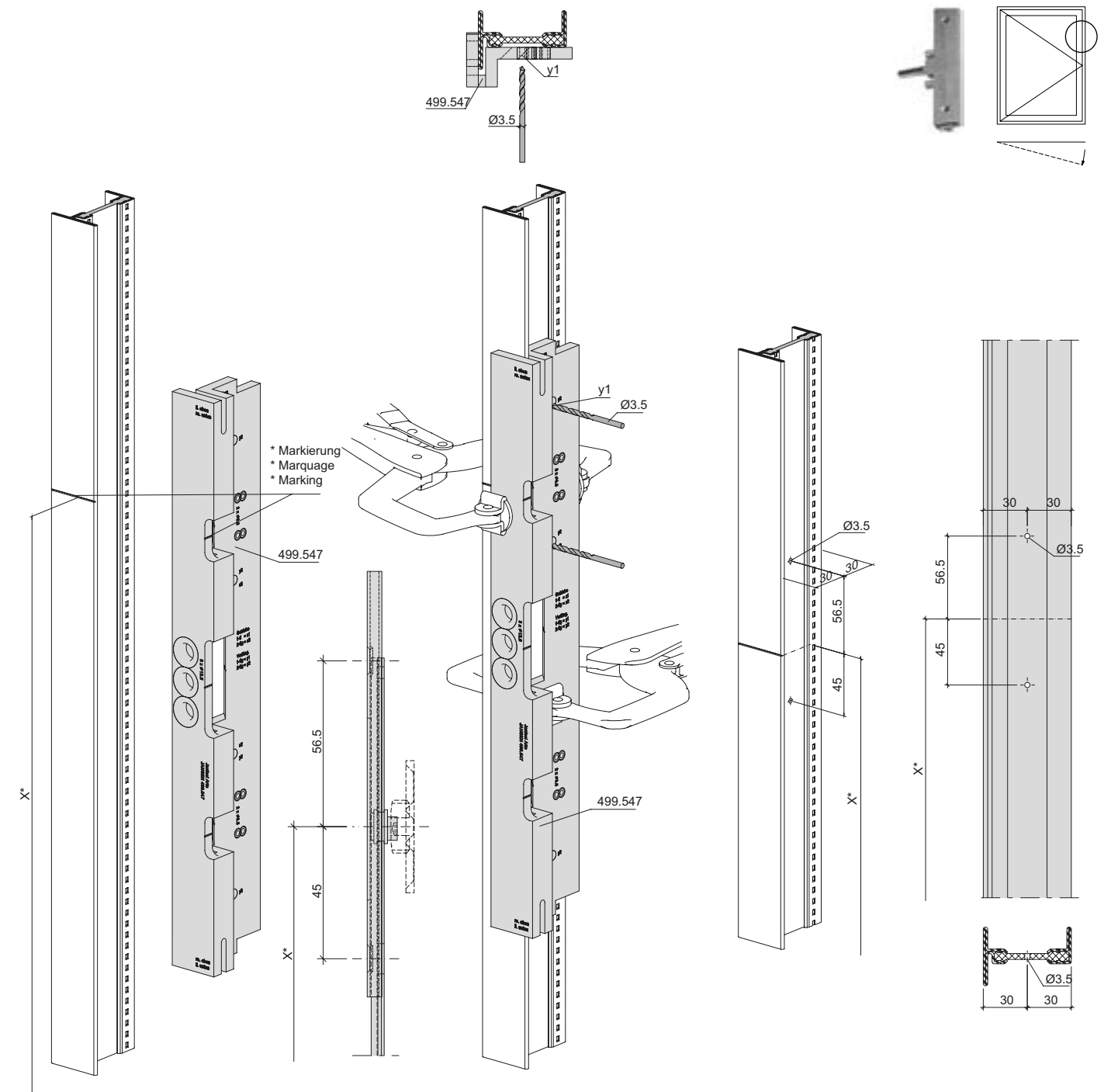
Drilling jig 499.547 for
gearbox extension 557.188
Frame bottom



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Rahmen oben

Gabarit de perçage 499.547 pour
prolongement de la crémonoie
557.188 Cadre en haut

Drilling jig 499.547 for
gearbox extension 557.188
Frame top

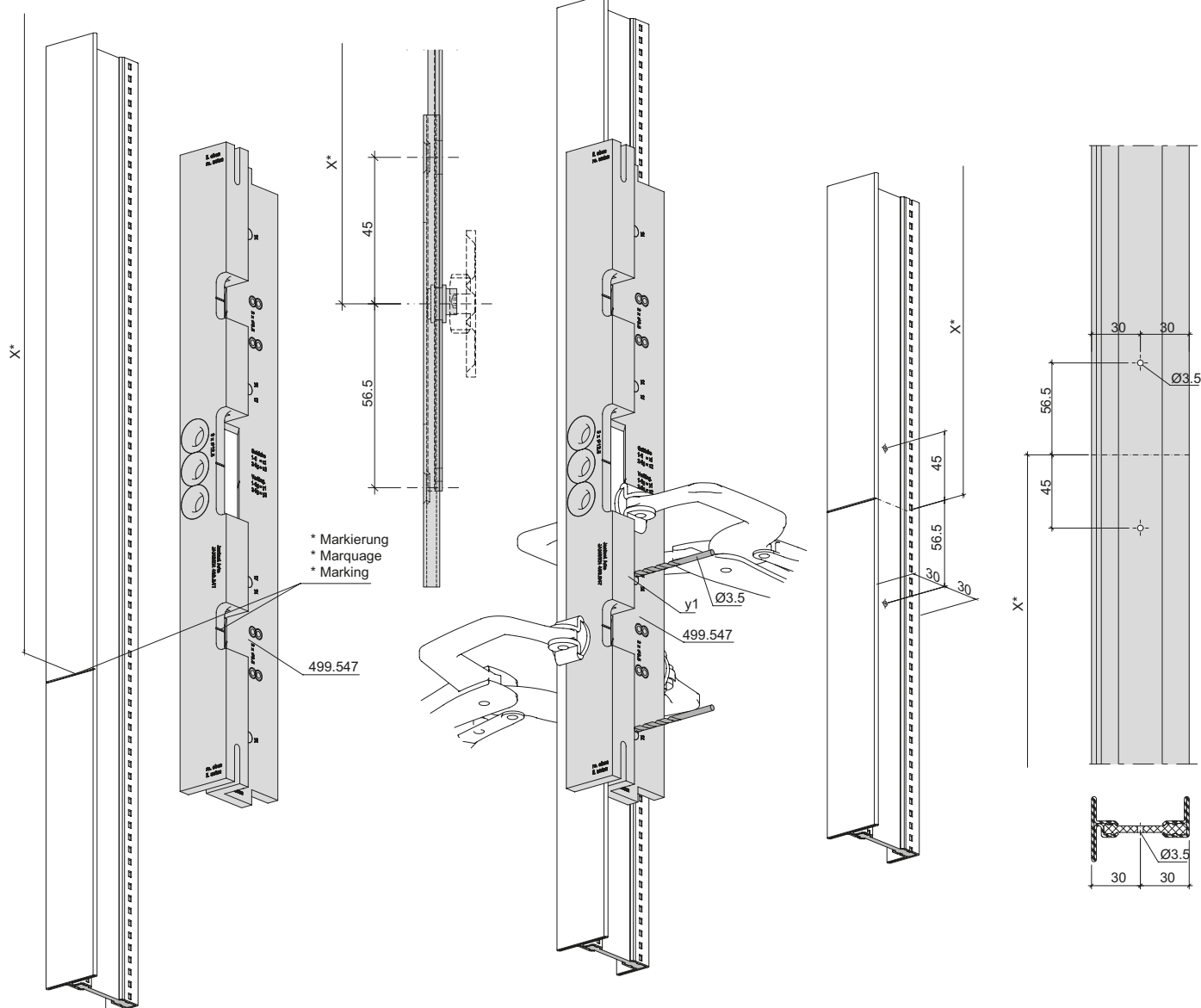
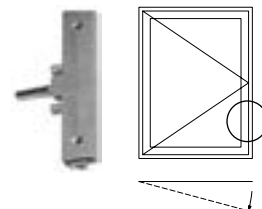
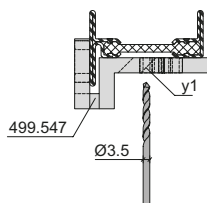


Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Rahmen unten

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188 Cadre en bas

Drilling jig 499.547 for
gearbox extension 557.188
Frame bottom

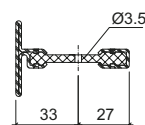
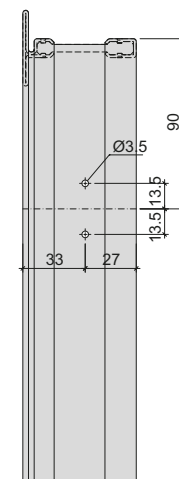
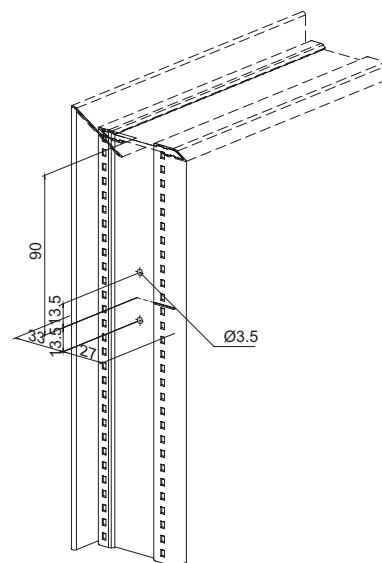
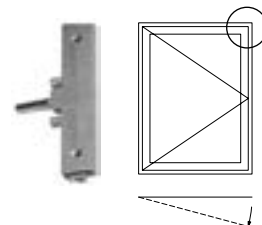
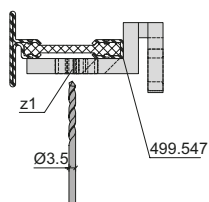
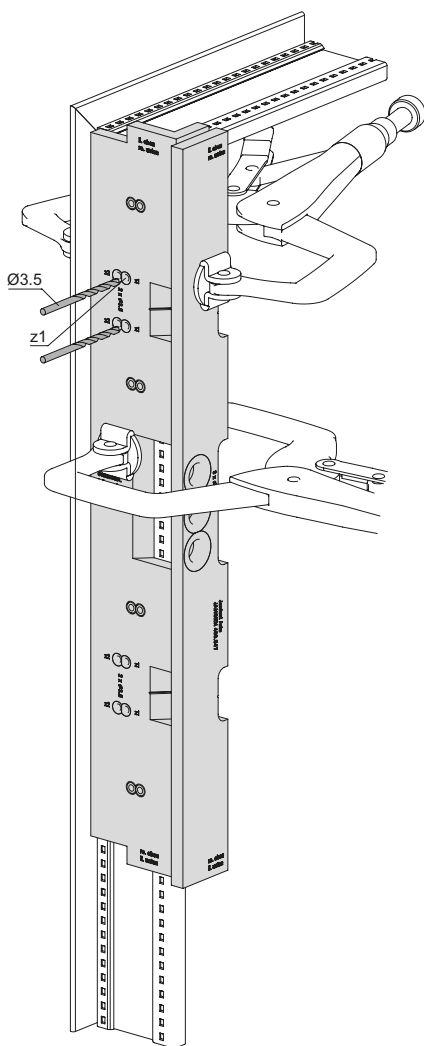
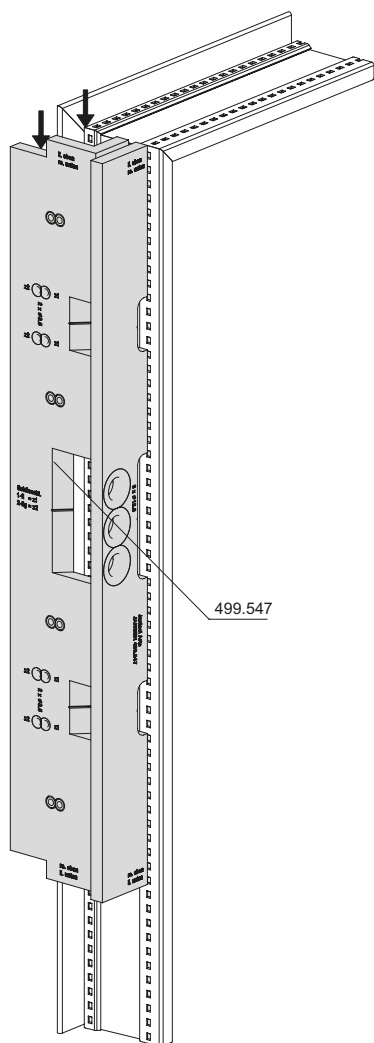
- * Verriegelungs-Pilz in geschlossener Position
 Markierung für 499.547
- * Champignon de verrouillage en position fermée
 Marquage pour 499.547
- * Mushroom head lock in closed position
 Marking for 499.547



Bohrlehre 499.547 für
Schliessbleche 557.309
Flügel oben

Gabarit de perçage 499.547
pour gâches 557.309
Vantail en haut

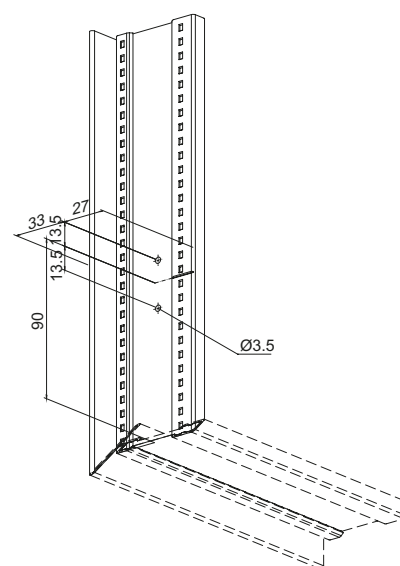
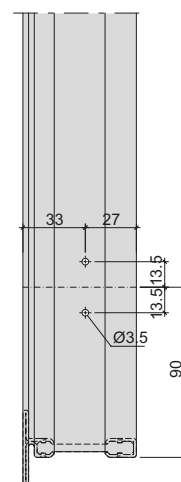
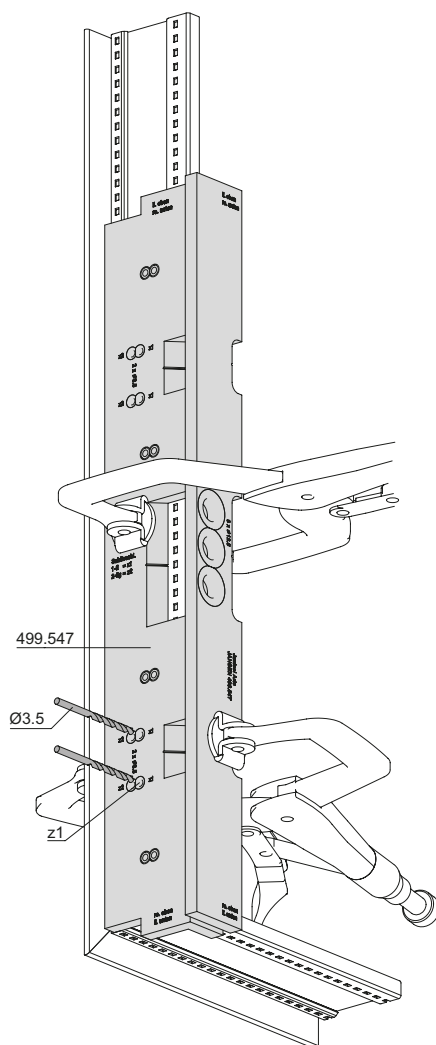
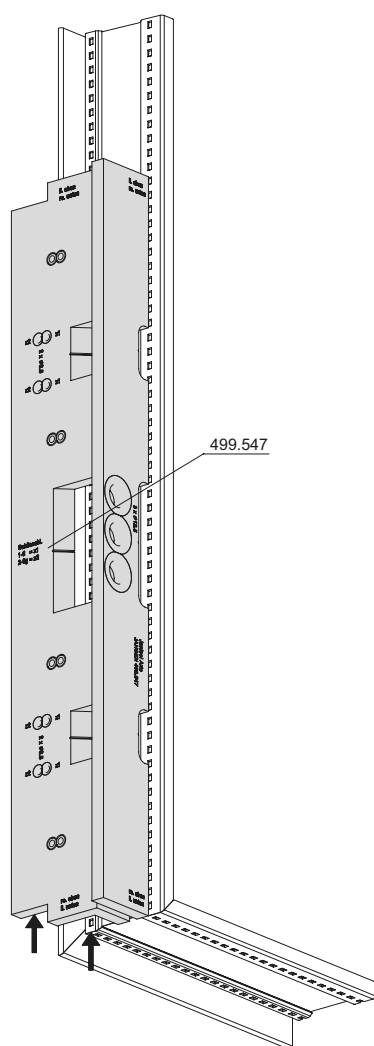
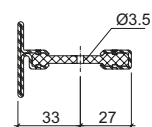
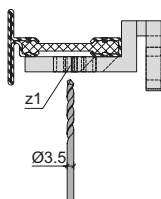
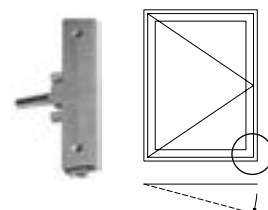
Drilling jig 499.547 for
striking plates 557.309
Sash top



Bohrlehre 499.547 für
Schliessblech 557.309
Flügel unten

Gabarit de perçage 499.547
pour gâche 557.309
Vantail en bas

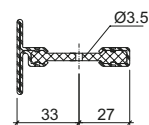
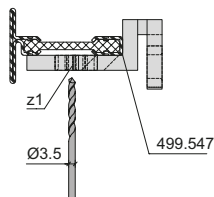
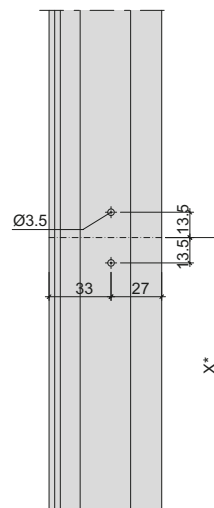
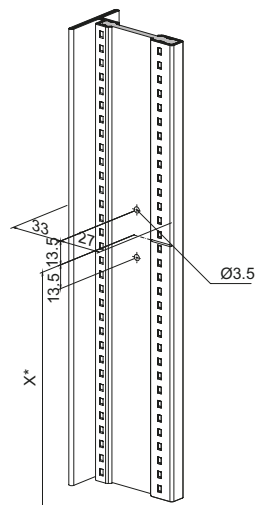
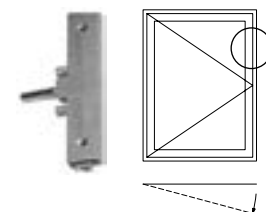
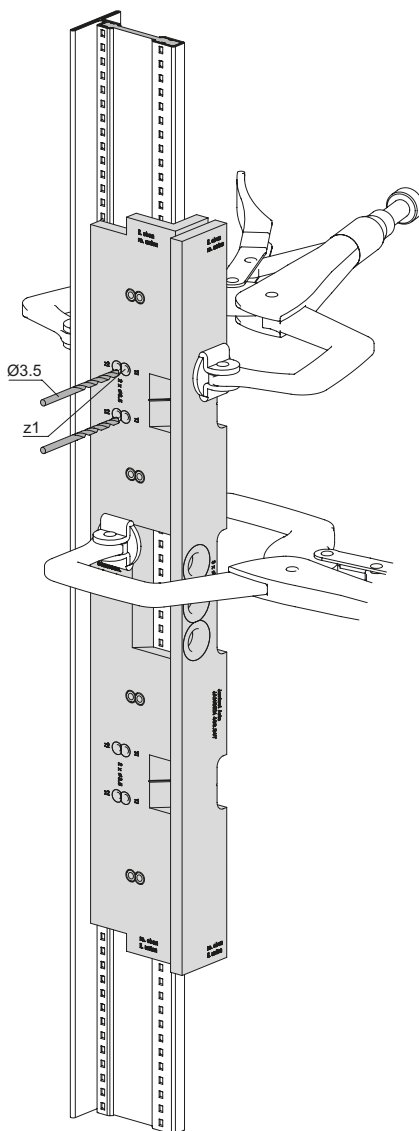
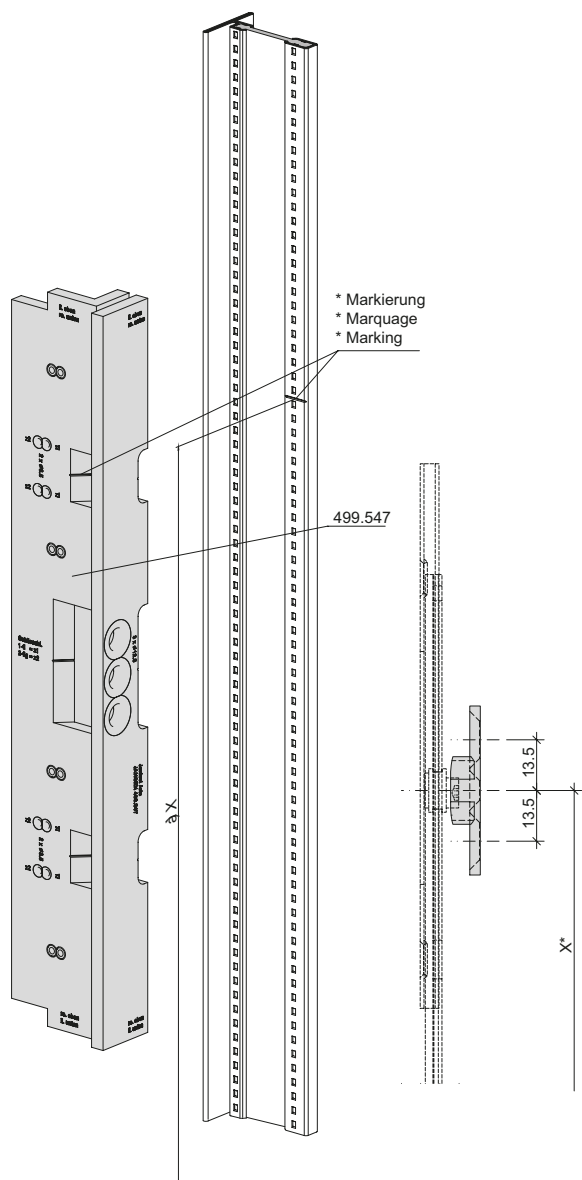
Drilling jig 499.547 for
striking plate 557.309
Sash bottom



Bohrlehre 499.547 für
Schliessblech 557.309
Flügel

Gabarit de perçage 499.547
pour gâche 557.309
Vantail

Drilling jig 499.547 for
striking plate 557.309
Sash



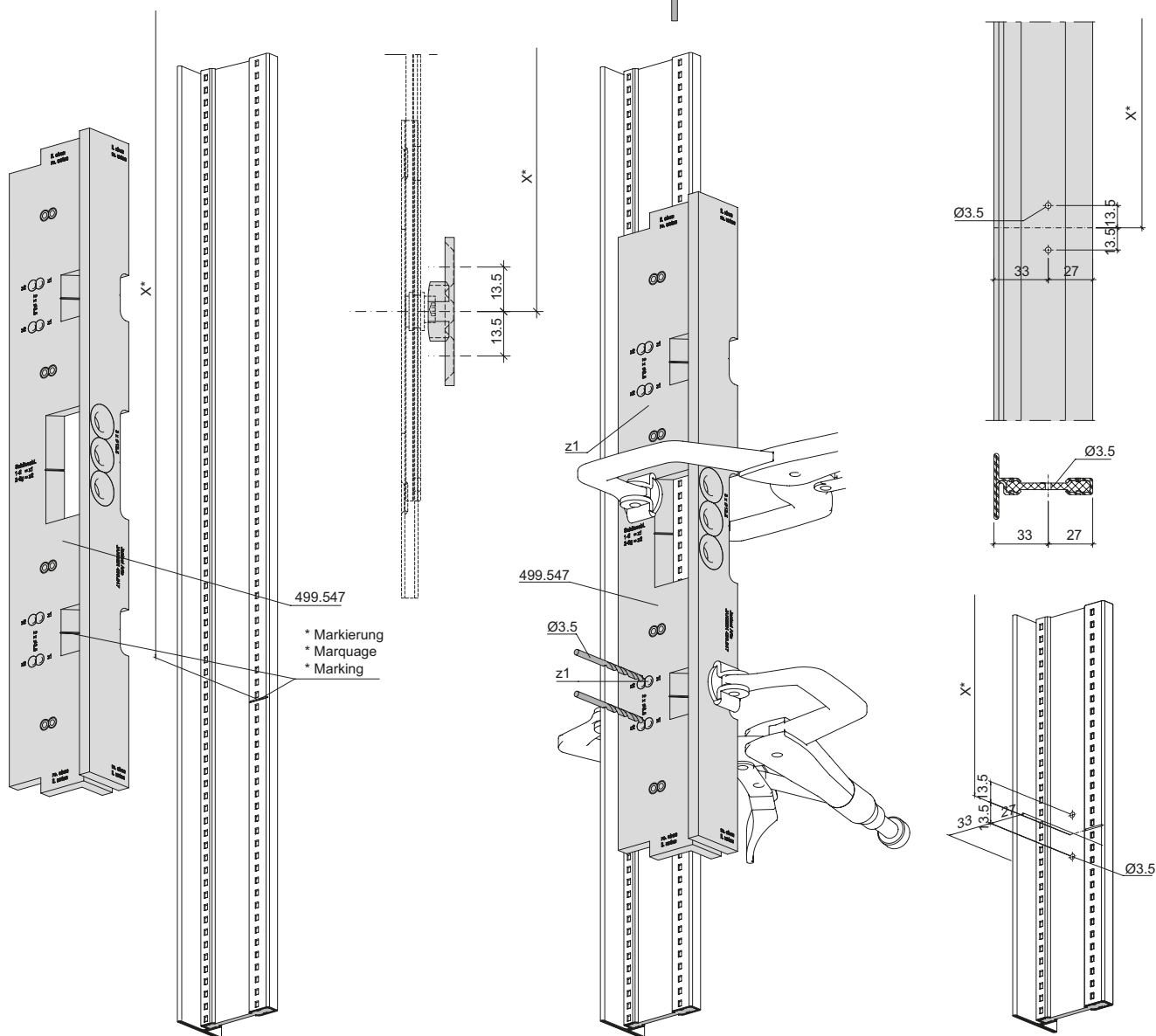
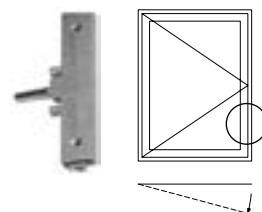
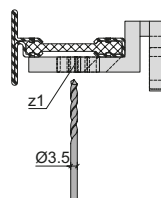
- * Verriegelungs-Pilz in geschlossener Position
Markierung für 499.547
- * Champignon de verrouillage en position fermée
Marquage pour 499.547
- * Mushroom head lock in closed position
Marking for 499.547

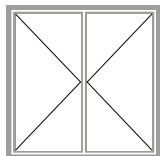
**Bohrlehre 499.547 für
 Schliessblech 557.309
 Flügel**

**Gabarit de perçage 499.547
 pour gâche 557.309
 Vantail**

**Drilling jig 499.547 for
 striking plate 557.309
 Sash**

- * Verriegelungs-Pilz in geschlossener Position
 Markierung für 499.547
- * Champignon de verrouillage en position fermée
 Marquage pour 499.547
- * Mushroom head lock in closed position
 Marking for 499.547



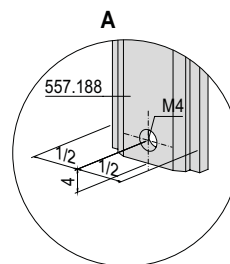
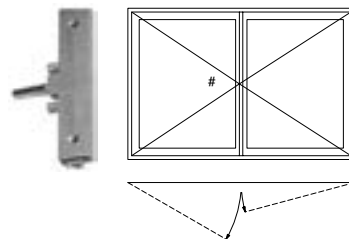
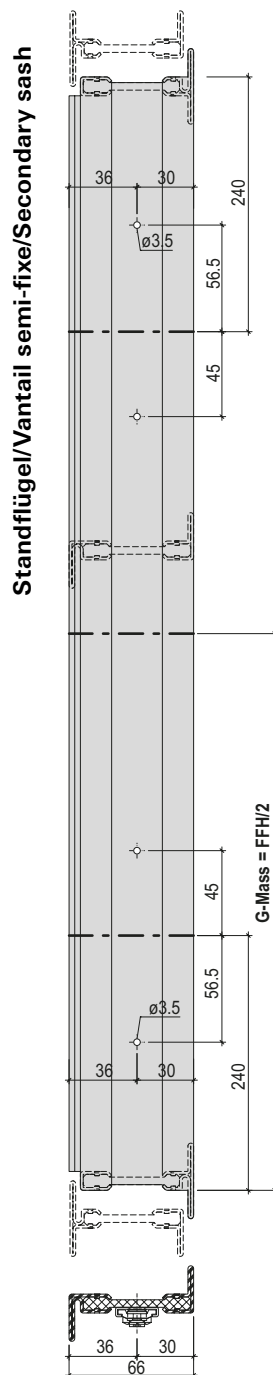
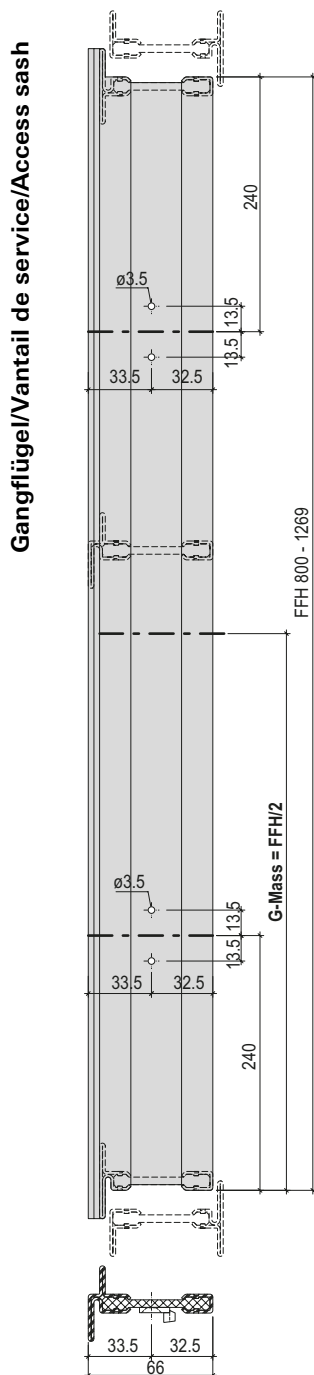
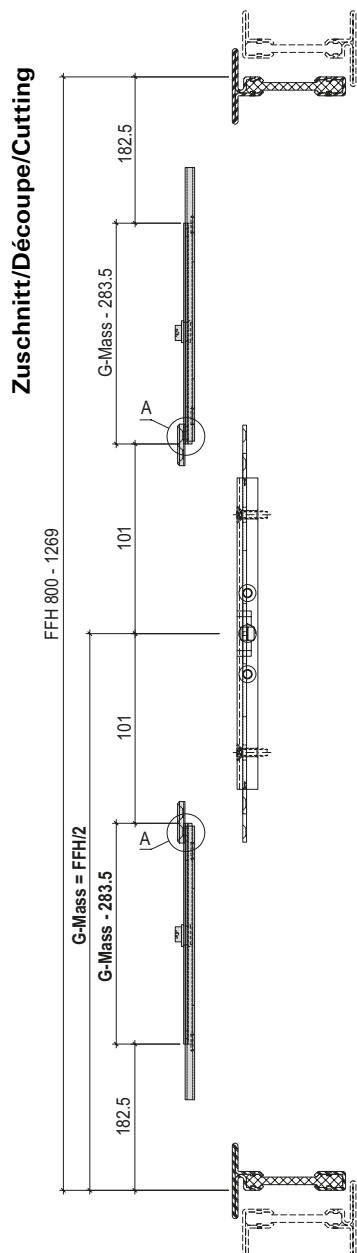


Drehfenster nach aussen öffnend	Fenêtre à la française ouvrant vers l'extérieur	Side-hung window outward opening	
Zuschnitt Getriebeverlängerung Bohrbild Getriebeverlängerung und Schliessbleche	Découpe prolongement de la crémonne Schéma de perçage prolongement de la crémonne et gâches	Cutting gearbox extension Drilling pattern gearbox extension and striking plates	146
Bohrlehre 499.547 für Getriebe 557.279/557.280 und Fenstergriff 557.268	Gabarit de perçage 499.547 pour crémonne 557.279/557.280 et poignée de fenêtre 557.268	Drilling jig 499.547 for mechanism 557.279/557.280 and window handle 557.268	150
Bohrlehre 499.547 für Getriebeverlängerung 557.188	Gabarit de perçage 499.547 pour prolongement de la crémonne 557.188	Drilling jig 499.547 for gearbox extension 557.188	152
Bohrlehre 499.547 für Schliessbleche 557.309	Gabarit de perçage 499.547 pour gâches 557.309	Drilling jig 499.547 for striking plates 557.309	156
Bohrlehre 499.547 für Getriebeverlängerung 557.188 mit Kantenriegel 557.139	Gabarit de perçage 499.547 pour prolongement de la crémonne 557.188 avec verrou à bascule 557.139	Drilling jig 499.547 for gearbox extension 557.188 with flush bolt 557.139	160
Bohrlehre 499.547 für Getriebeverlängerung 557.188 ohne Kantenriegel 557.192	Gabarit de perçage 499.436 pour prolongement de la crémonne 557.188 sans verrou à bascule 557.192	Drilling jig 499.547 for gearbox extension 557.188 without flush bolt 557.192	162
Überwachung RFID	Surveillance RFID	RFID monitoring	164

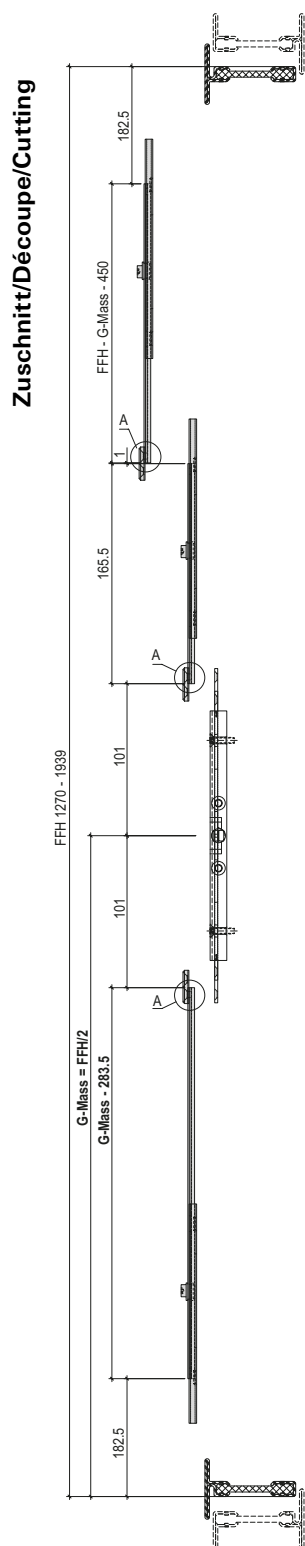
**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 800-1269**

**Découpe prolongement de la crème
Schéma de perçage prolongement
de la crème et gâches
FFH 800-1269**

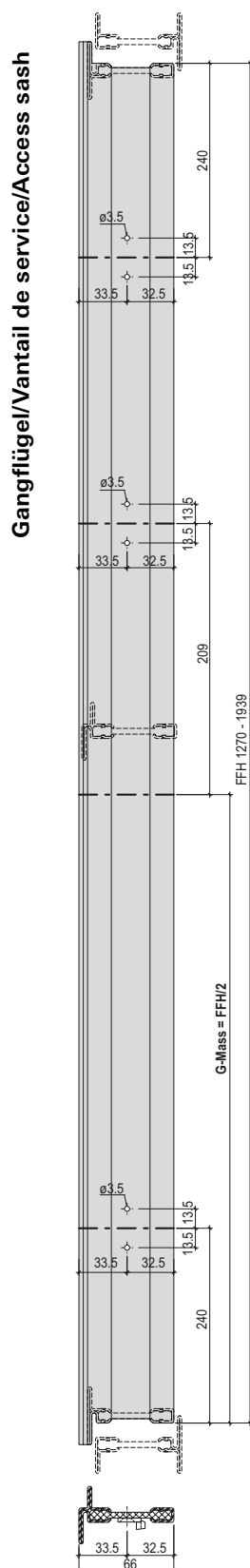
**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 800-1269**



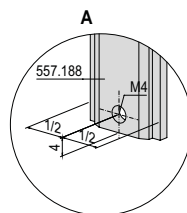
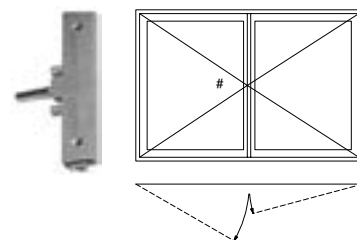
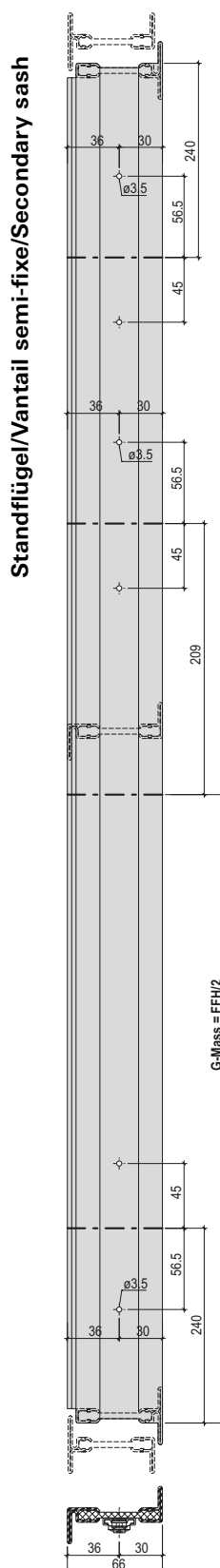
Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1270-1939



Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 1270-1939

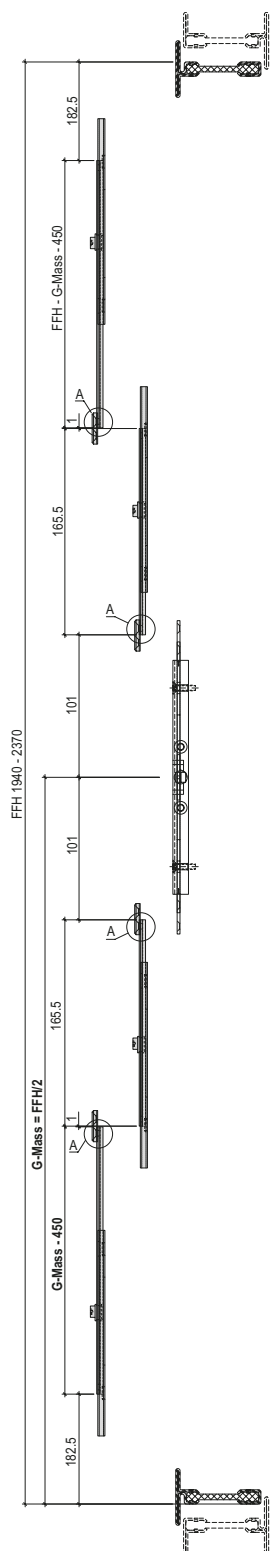


Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1270-1939

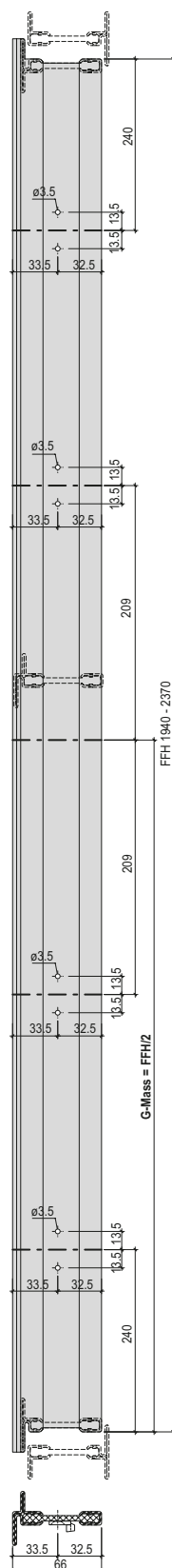


**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1939-2370**

Zuschnitt/Découpe/Cutting

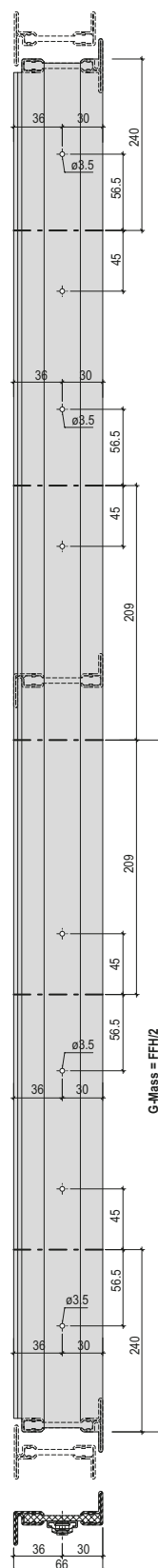


Gangflügel/Vantail de service/Access sash

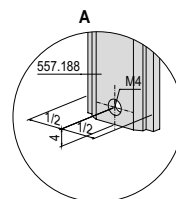
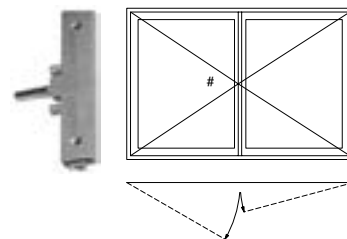


Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 1939-2370

Standflügel/Vantail semi-fixe/Secondary sash



**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1939-2370**

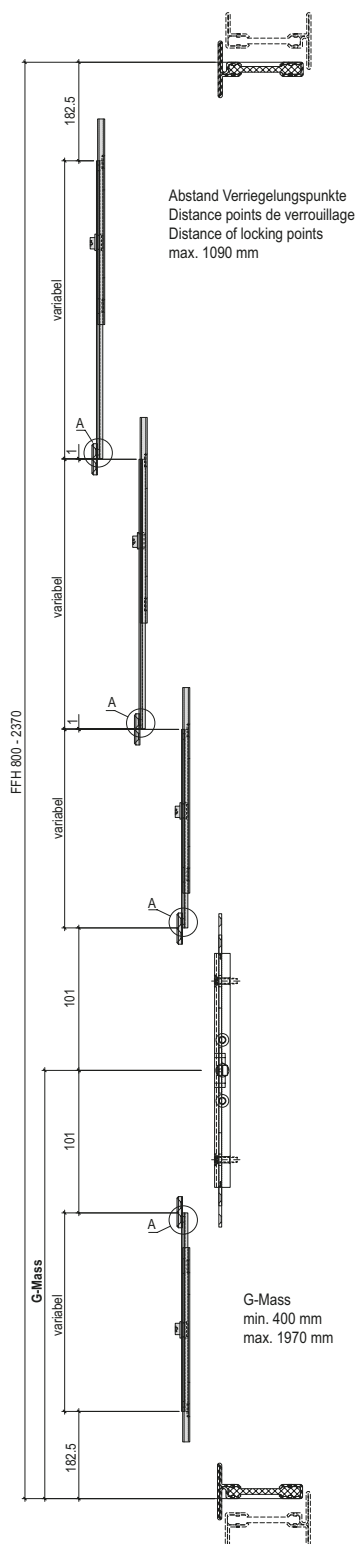


**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 800-2370**

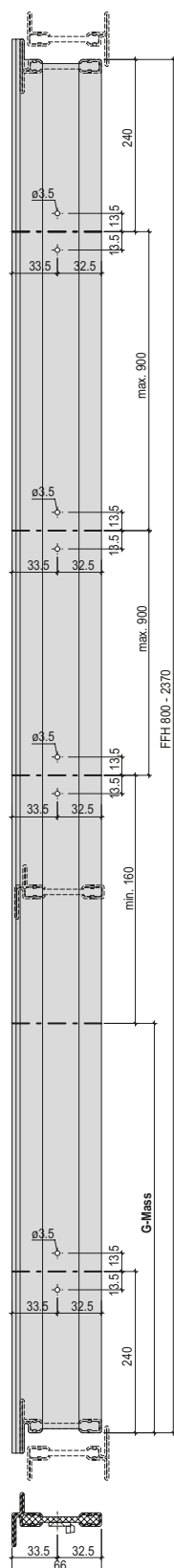
Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 800-2370

**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 800-2370**

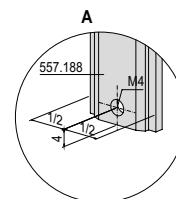
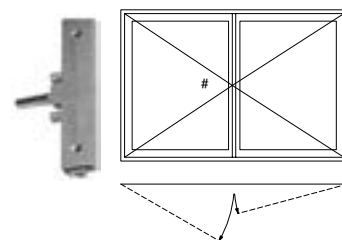
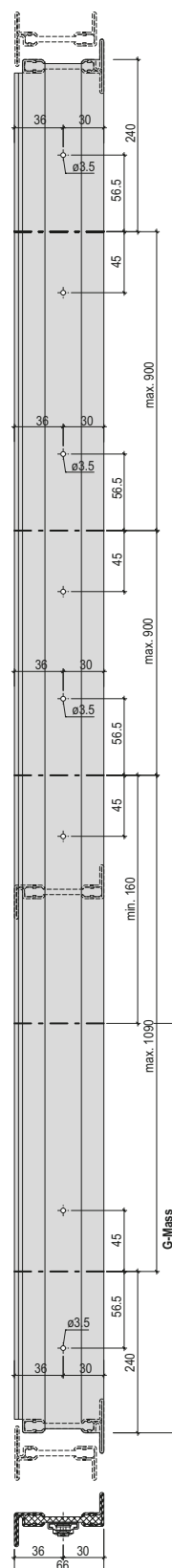
Zuschnitt/Découpe/Cutting



Gangflügel/Vantail de service/Access sash



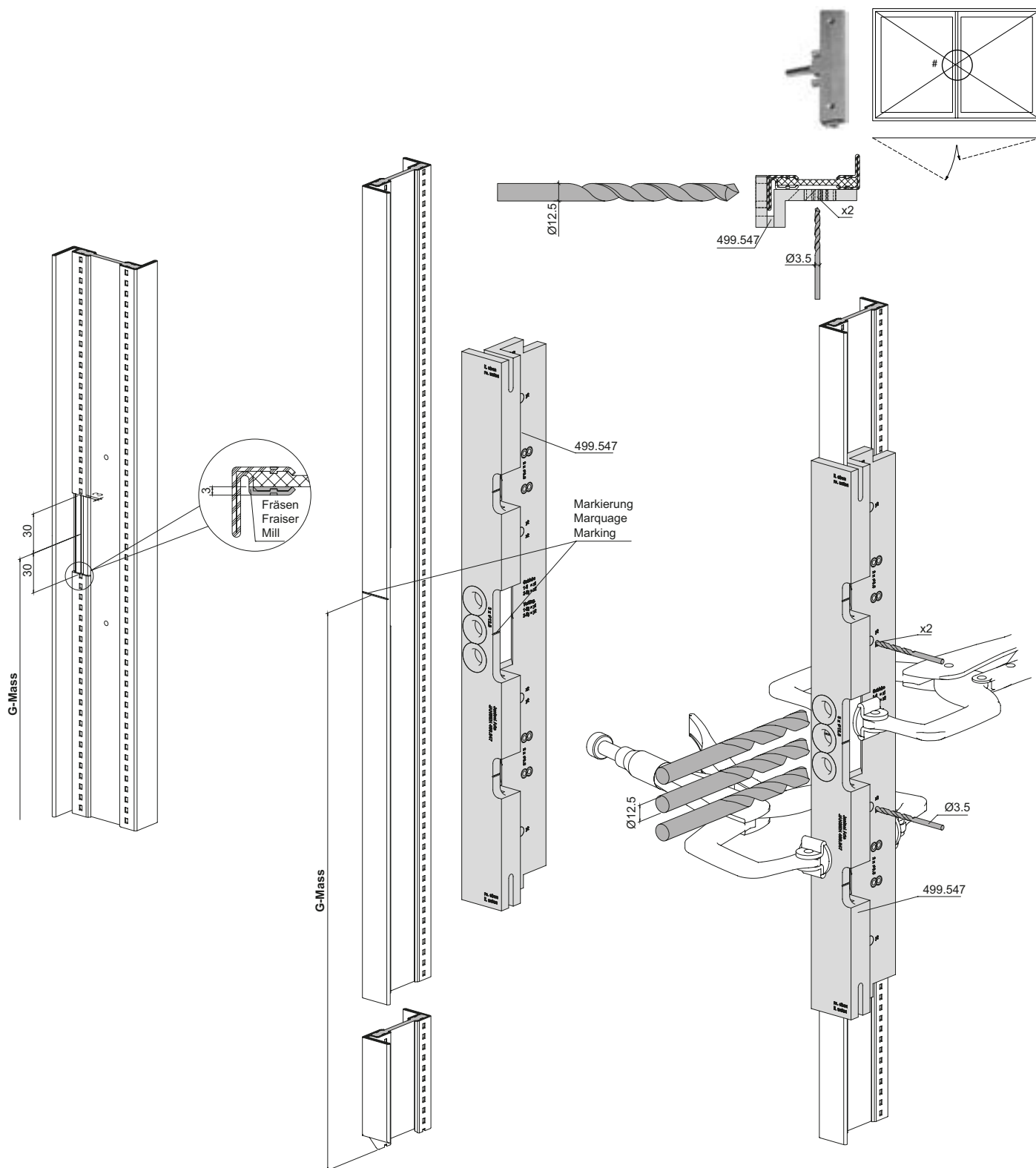
Standflügel/Vantail semi-fixe/Secondary sash



**Bohrlehre 499.547 für
 Getriebe 557.279/557.280
 und Fenstergriff 557.268
 Standflügel**

**Gabarit de perçage 499.547
 pour crémone 557.279/557.280
 et poignée de fenêtre 557.268
 Vantail semi-fixe**

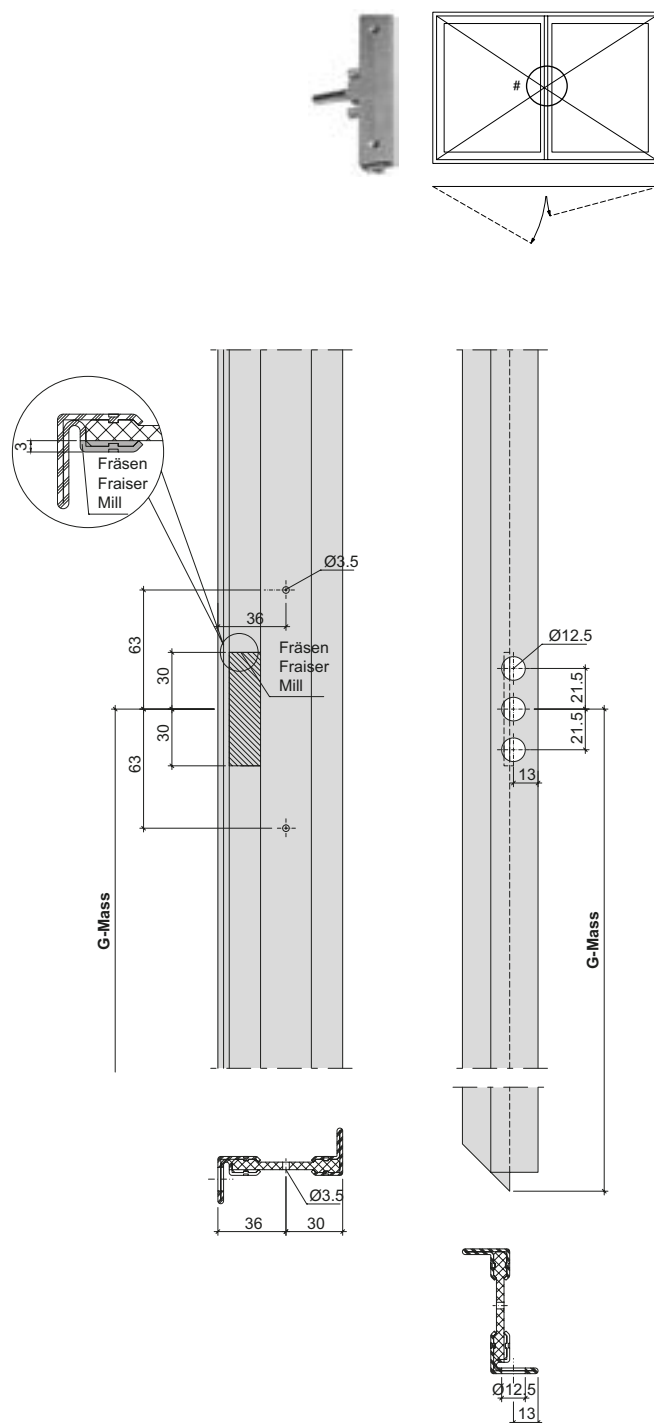
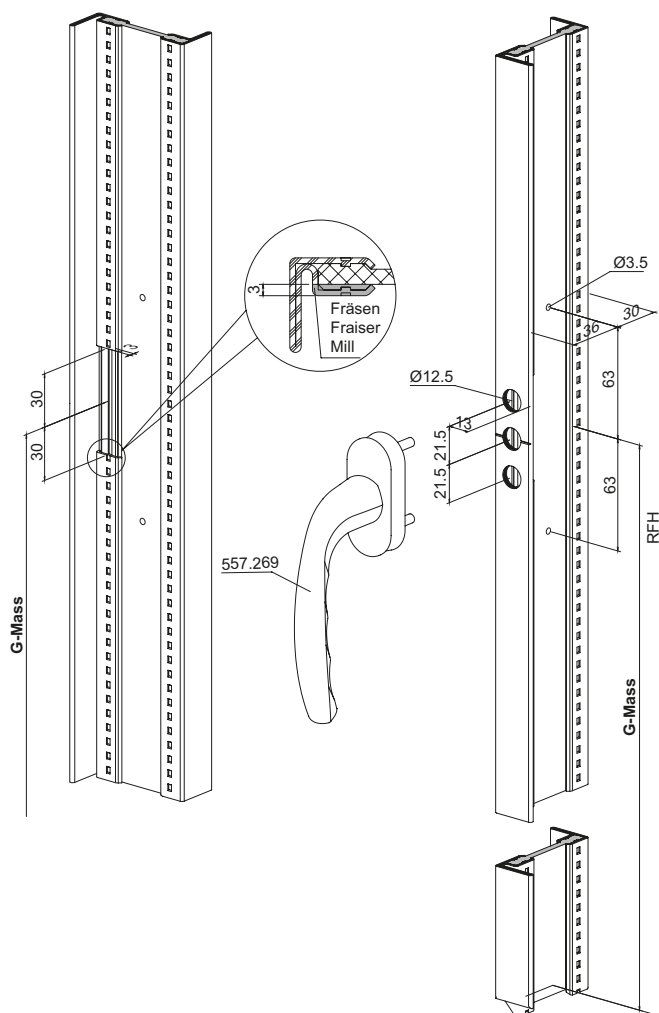
**Drilling jig 499.547 for
 mechanism 557.279/557.280
 and window handle 557.268
 Secondary sash**

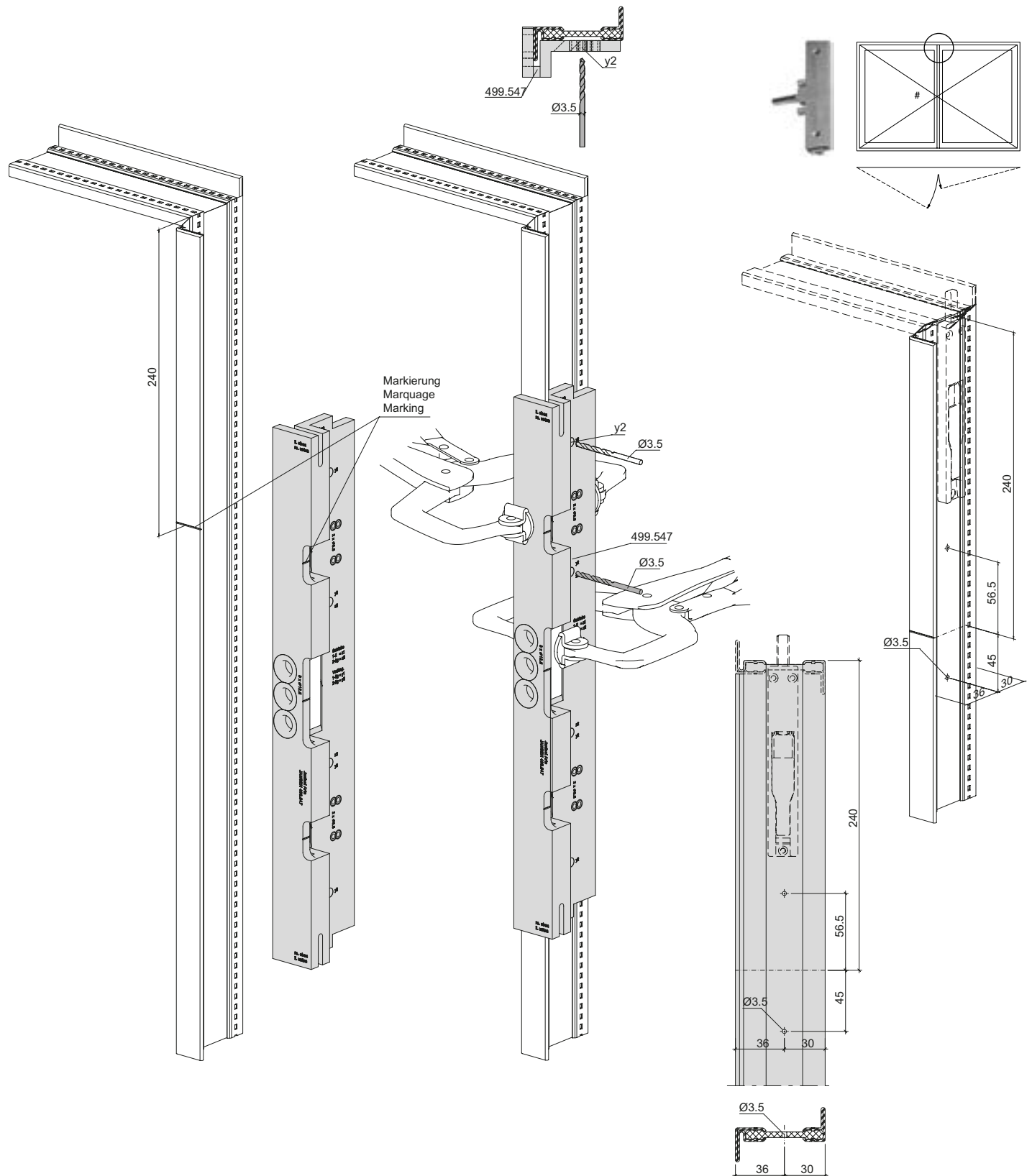


**Bohrbild und Fräsung
Getriebe 557.279/557.280
und Fenstergriff 557.268
Standflügel**

**Schéma de perçage et fraisage
Crémone 557.279/557.280 et
poignée de fenêtre 557.268
Vantail semi-fixe**

**Drilling pattern and milling
Mechanisme 557.279/557.280 and
window handle 557.268
Secondary sash**

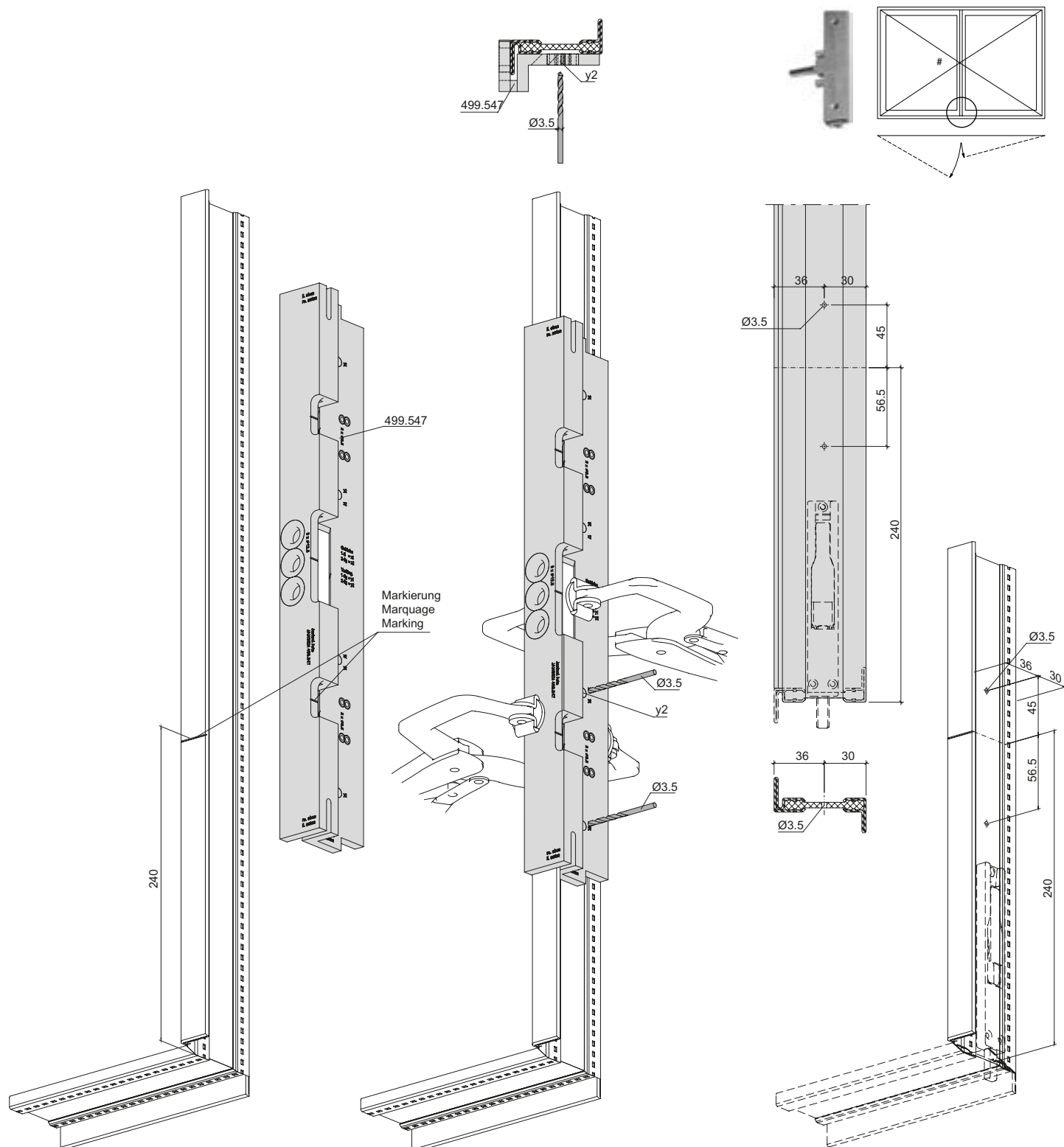




Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Standflügel unten

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188 Vantail semi-fixe en bas

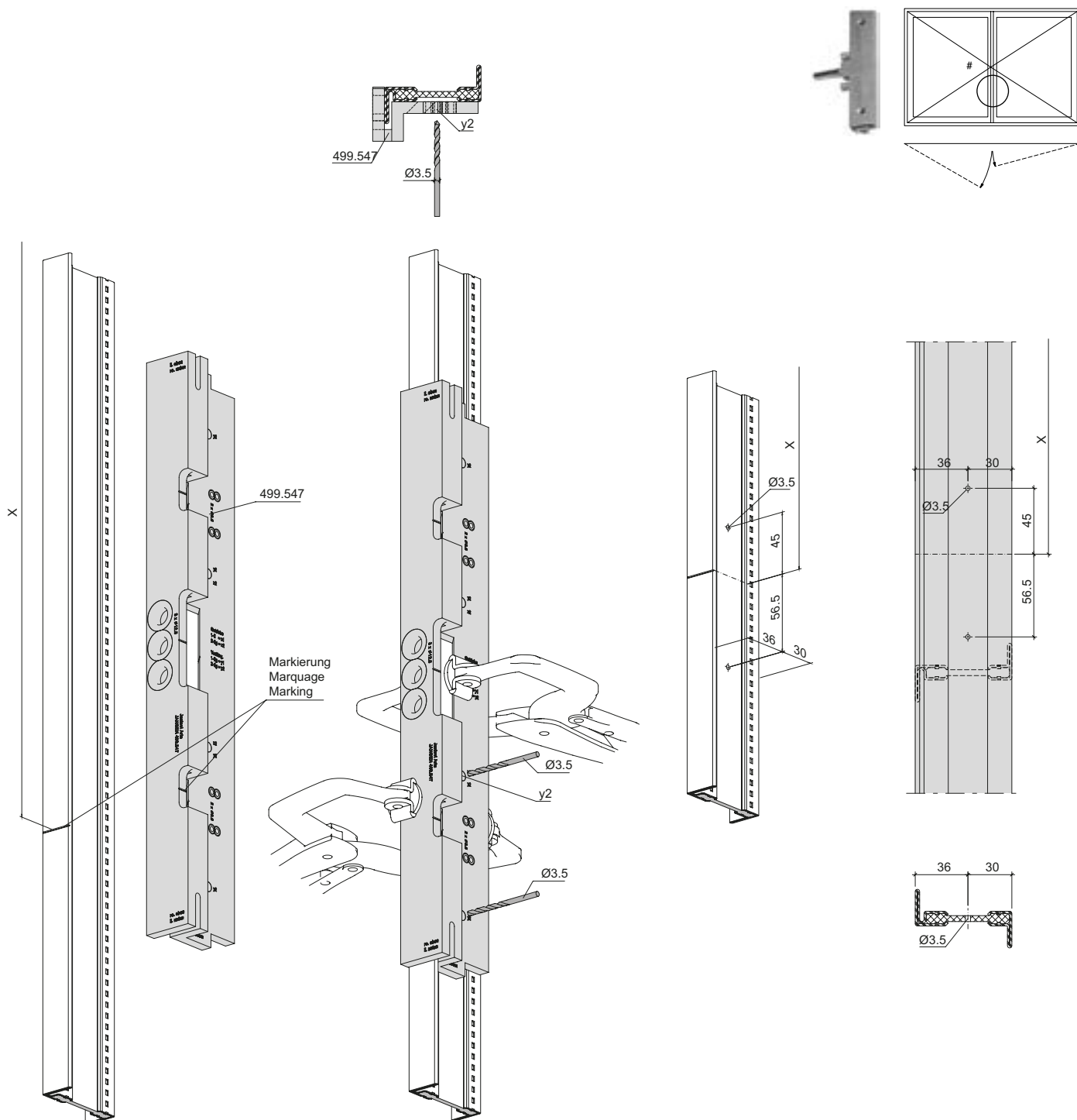
Drilling jig 499.547 for
gearbox extension 557.188
Secondary sash bottom



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
Standflügel

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188 Vantail semi-fixe

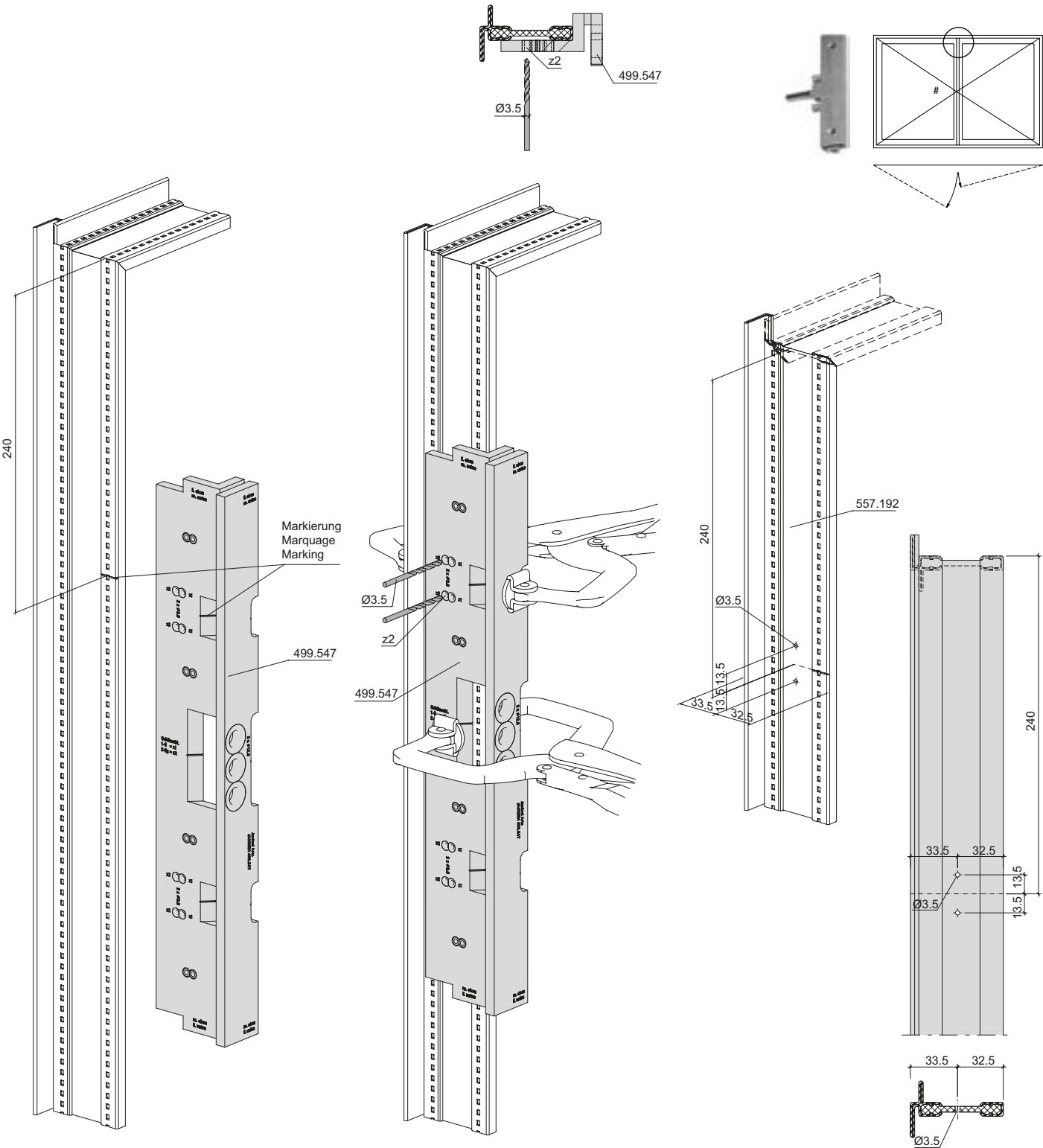
Drilling jig 499.547 for
gearbox extension 557.188
Secondary sash



Bohrlehre 499.547 für
Schliessbleche 557.309
Gangflügel oben

Gabarit de perçage 499.547
pour gâches 557.309
Vantail de service en haut

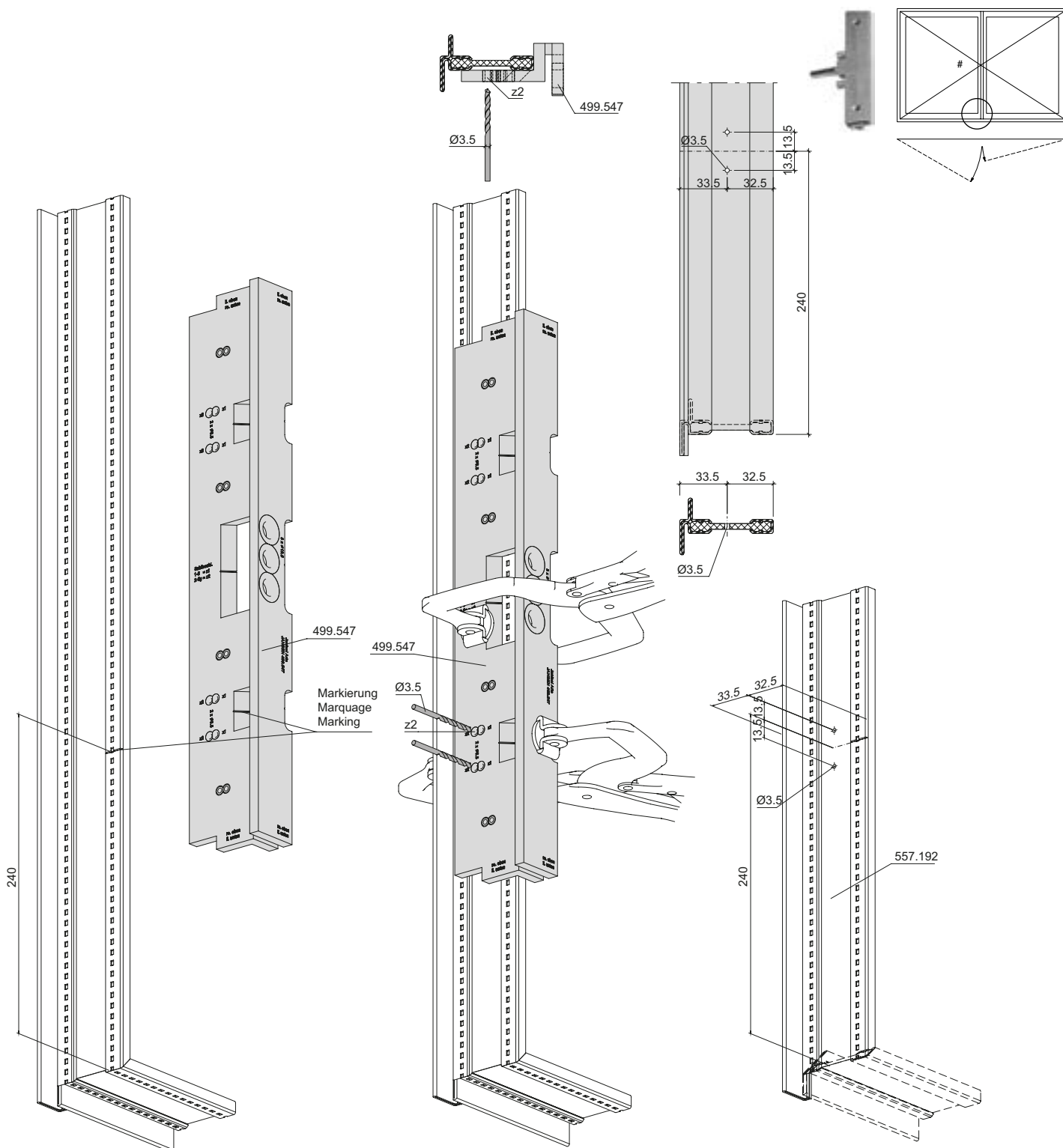
Drilling jig 499.547 for
striking plates 557.309
Access sash top



Bohrlehre 499.547 für
Schliessbleche 557.309
Gangflügel unten

Gabarit de perçage 499.547
pour gâches 557.309
Vantail de service en bas

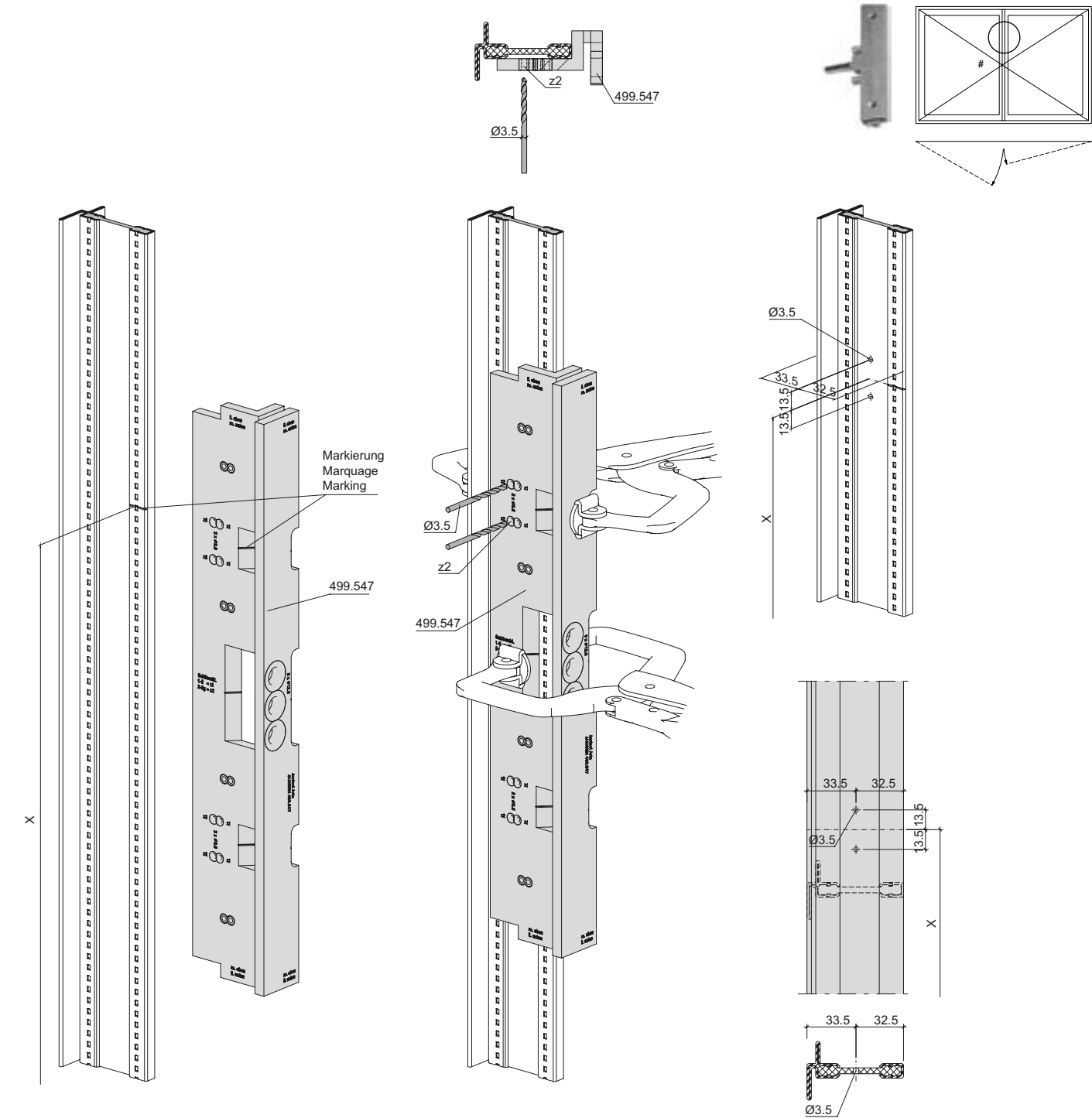
Drilling jig 499.547 for
striking plates 557.309
Access sash bottom



Bohrlehre 499.547 für
Schliessblech 557.309
Gangflügel

Gabarit de perçage 499.547
pour gâche 557.309
Vantail de service

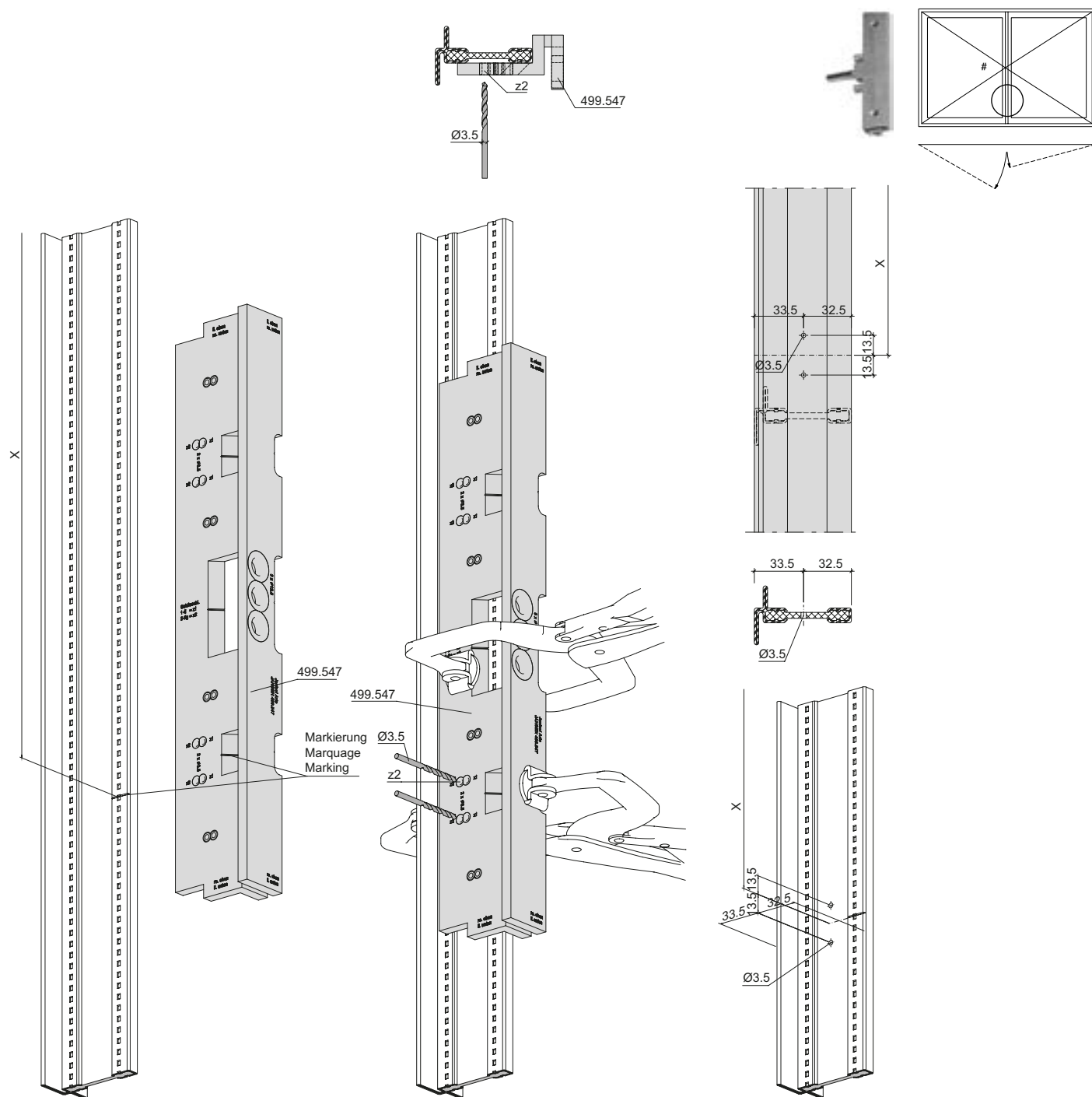
Drilling jig 499.547 for
striking plate 557.309
Access sash



Bohrlehre 499.547 für
Schliessblech 557.309
Gangflügel

Gabarit de perçage 499.547
pour gâche 557.309
Vantail de service

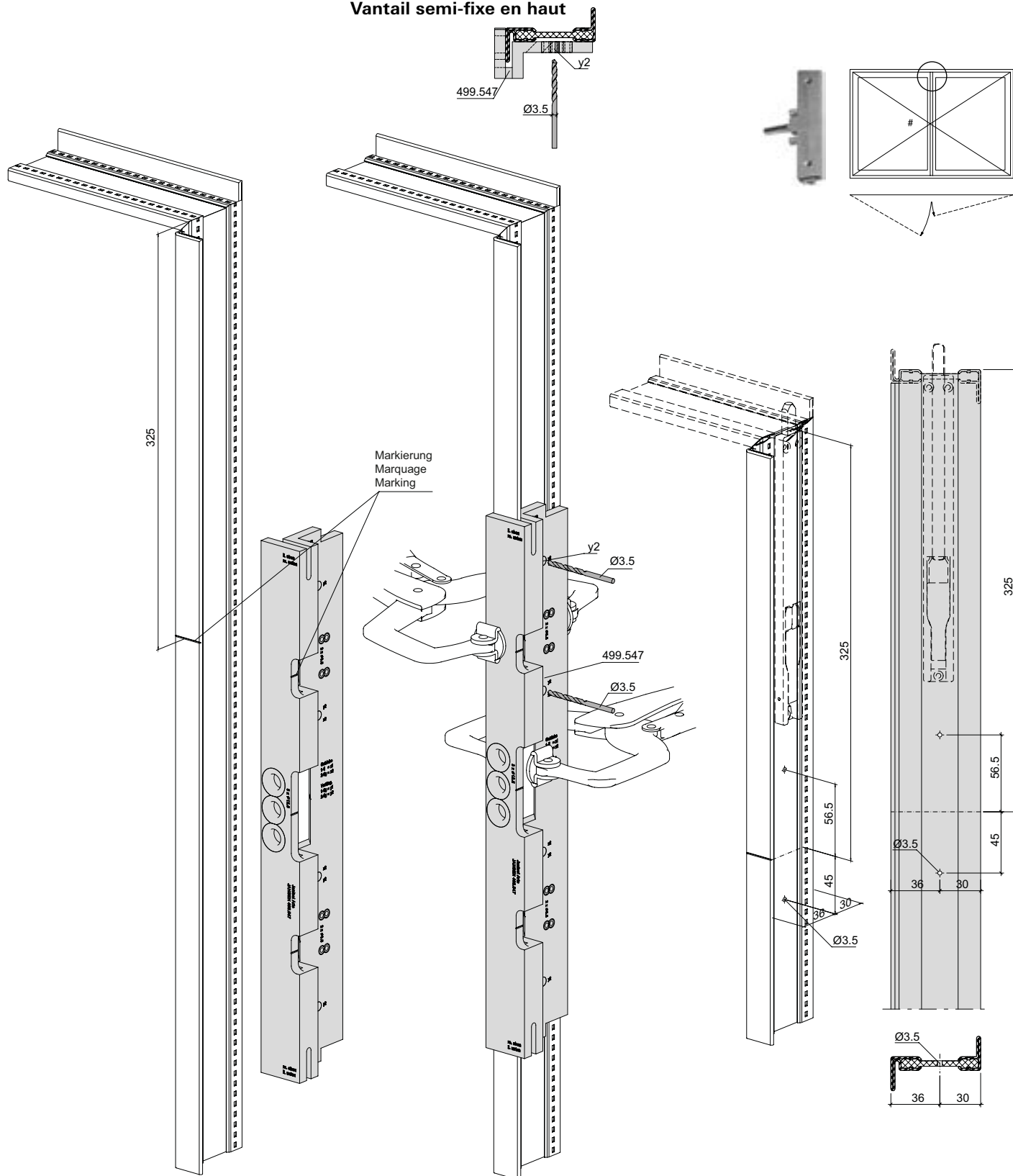
Drilling jig 499.547 for
striking plate 557.309
Access sash



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
mit Kantenriegel 557.139
Standflügel oben

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188
avec verrou à bascule 557.139
Vantail semi-fixe en haut

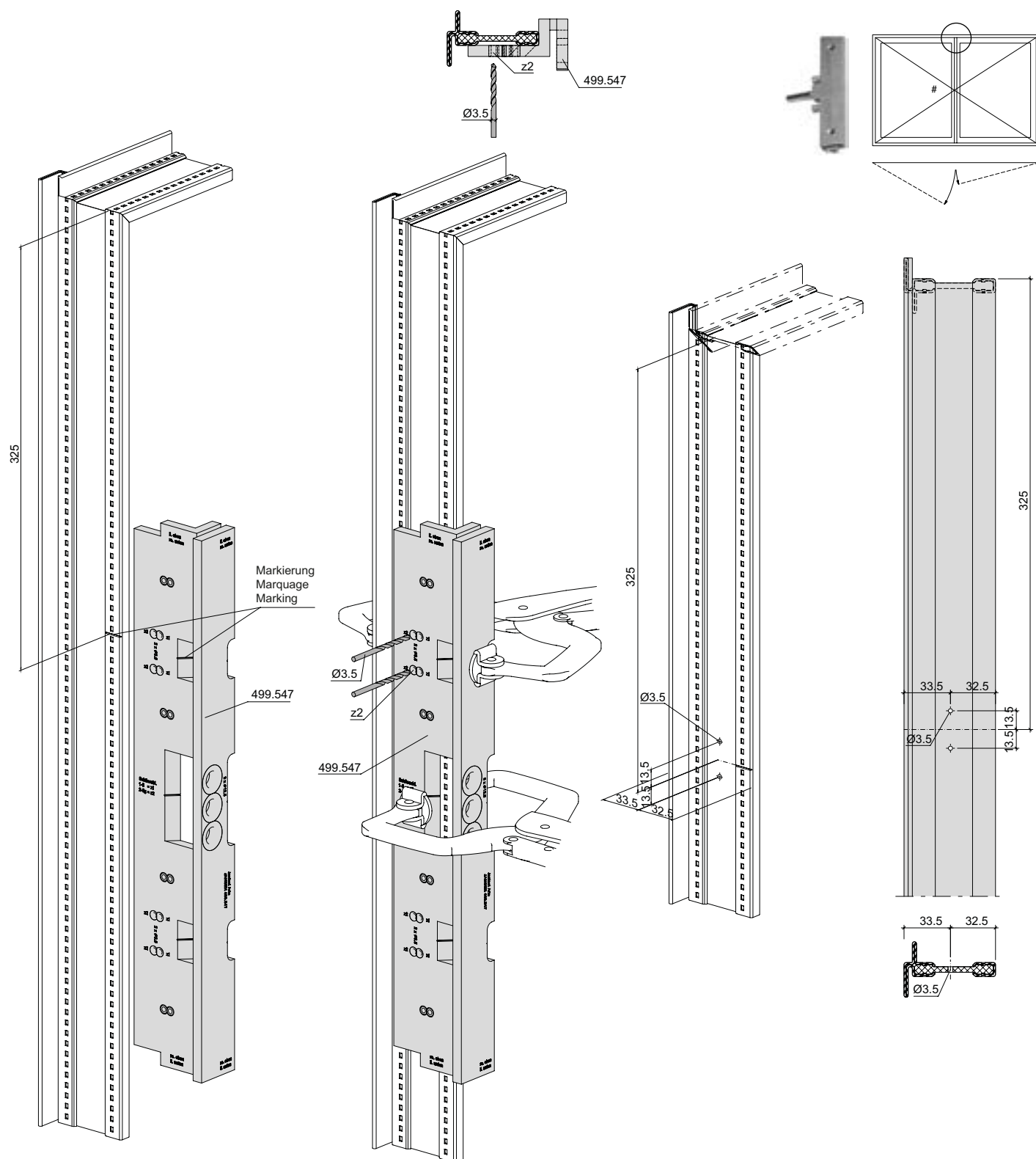
Drilling jig 499.547 for
gearbox extension 557.188
with flush bolt 557.139
Secondary sash top



Bohrlehre 499.547 für
Getriebeverlängerung 557.188
mit Kantenriegel 557.139
Gangflügel oben

Gabarit de perçage 499.547 pour
prolongement de la crémonne
557.188
avec verrou à bascule 557.139
Vantail de service en haut

Drilling jig 499.547 for
gearbox extension 557.188
with flush bolt 557.139
Access sash top



**Bohrlehre 499.547 für
 Getriebeverlängerung 557.188
 ohne Kantenriegel 557.192
 Standflügel oben**

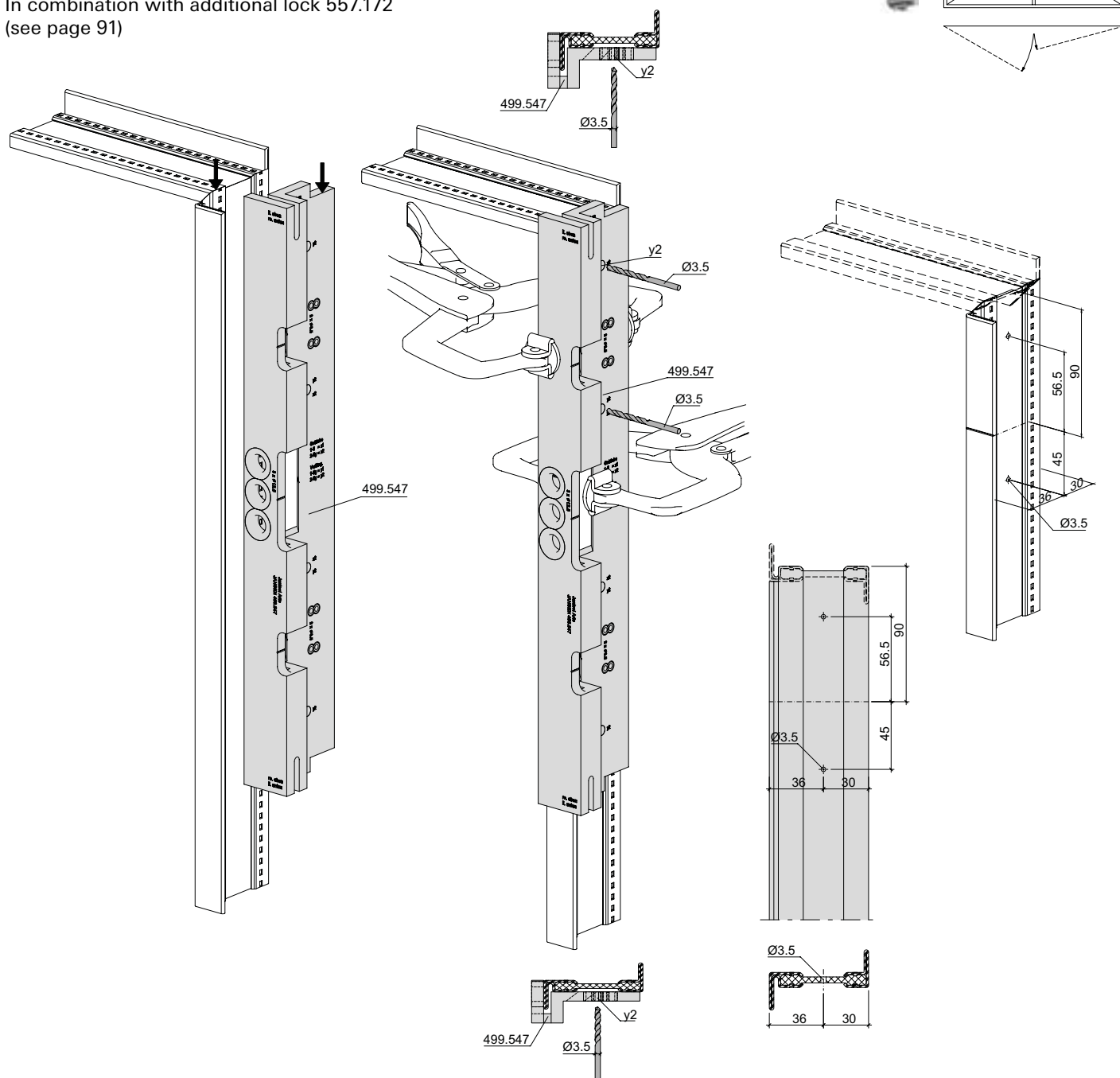
**Gabarit de perçage 499.547 pour
 prolongement de la crémonne
 557.188
 sans verrou à bascule 557.192
 Vantail semi-fixe en haut**

**Drilling jig 499.547 for
 gearbox extension 557.188
 without flush bolt 557.192
 Secondary sash top**

In Kombination mit Zusatzverriegelung 557.172
 (siehe Seite 91)

En combinaison avec un verrouillage supplémentaire
 557.172 (voir page 91)

In combination with additional lock 557.172
 (see page 91)



**Bohrlehre 499.547 für
 Schliessblech 557.309
 ohne Kantenriegel 557.192
 Gangflügel oben**

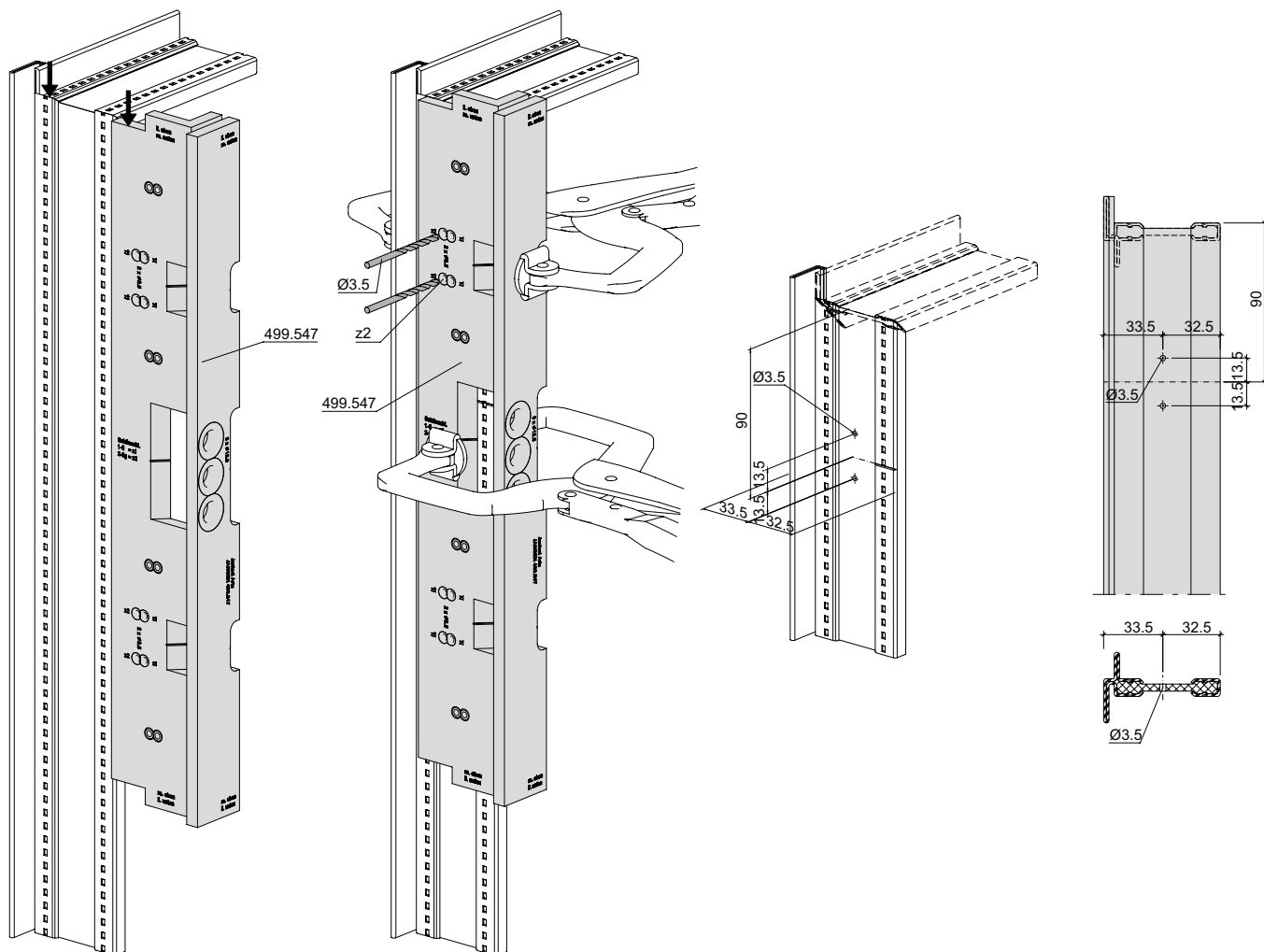
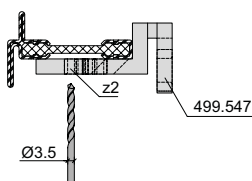
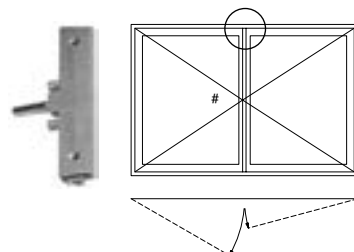
**Gabarit de perçage 499.547 pour
 gâche de fermeture 557.309
 sans verrou à bascule 557.192
 Vantail de service en haut**

**Drilling jig 499.547 for
 striking plate 557.309
 without flush bolt 557.192
 Access sash top**

In Kombination mit Zusatzverriegelung 557.172
 (siehe Seite 91)

En combinaison avec un verrouillage supplémentaire
 557.172 (voir page 91)

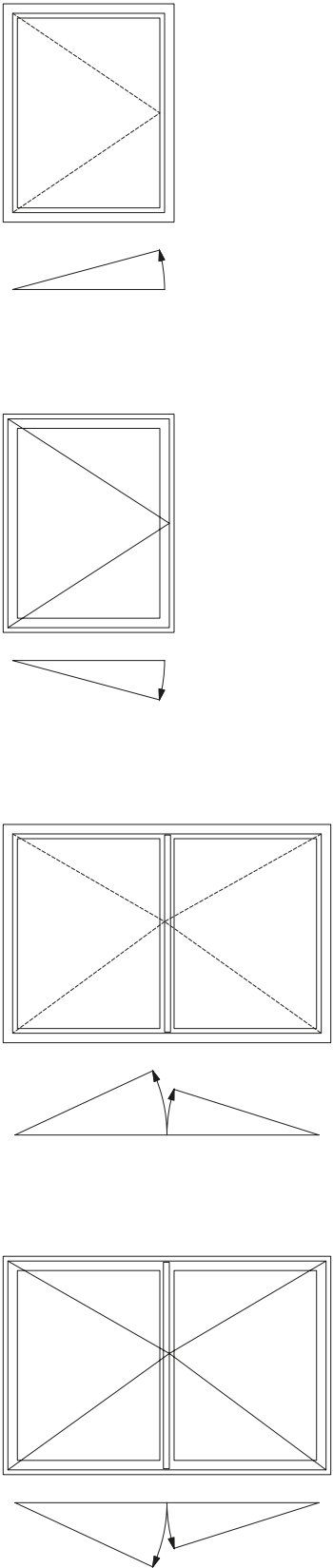
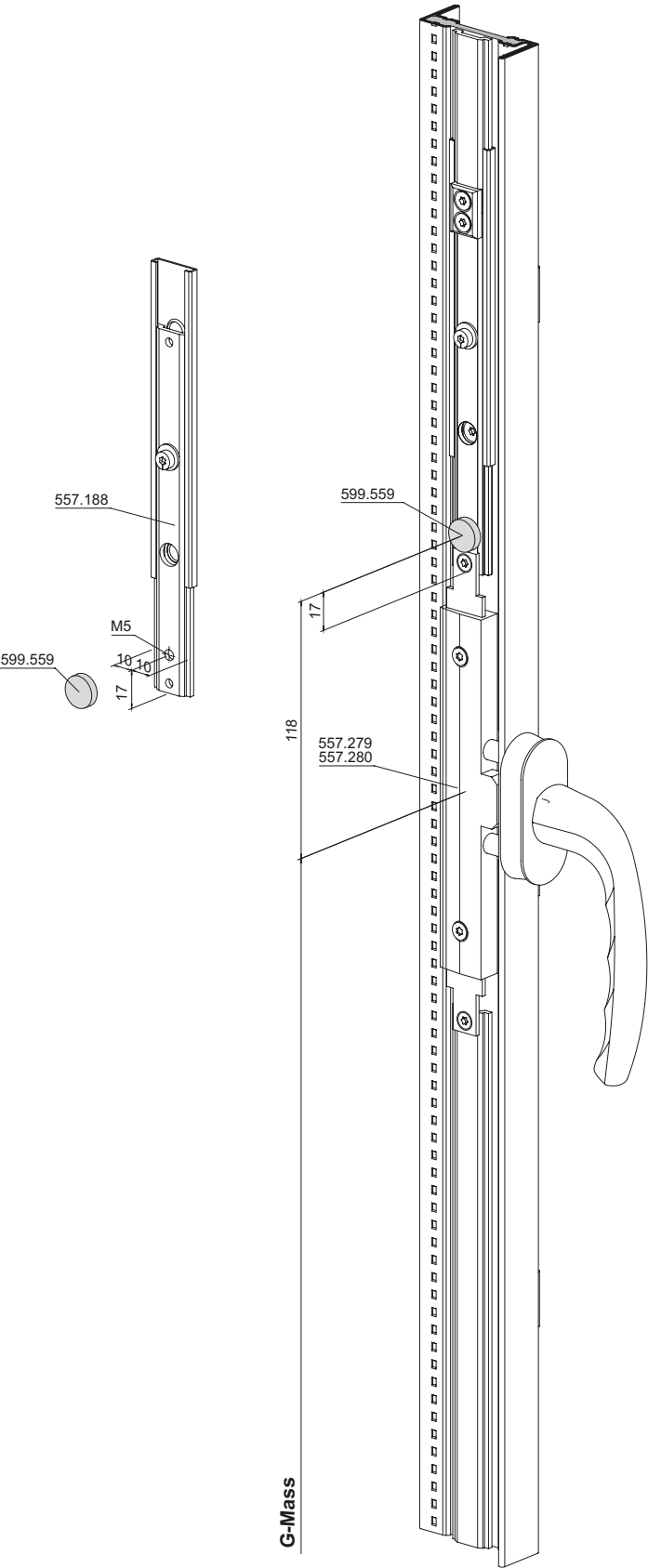
In combination with additional lock 557.172
 (see page 91)



Überwachung RFID
Einbau Magnet 599.559

Surveillance RFID
Montage aimant 599.559

RFID monitoring
Installation of magnet 599.559

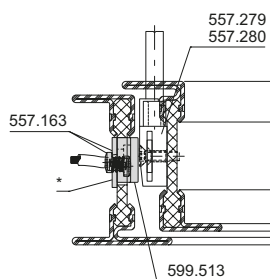


Überwachung RFID
Ausnehmung Rahmen
Kammermass 10 mm

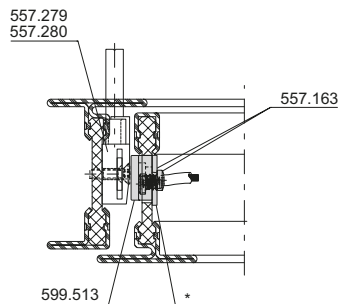
Surveillance RFID
Évidement cadre
Dimensions de caisson 10 mm

RFID monitoring
Frame opening
Chamber size 10 mm

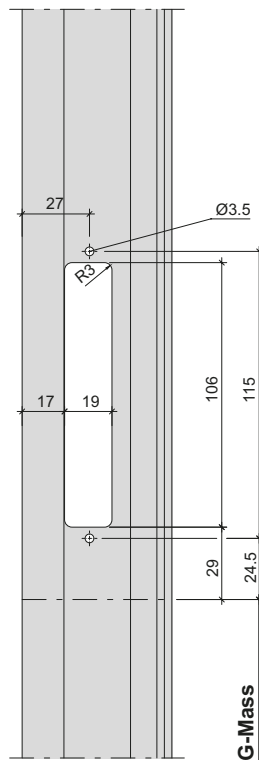
Nach innen öffnend
 Ouvrant vers l'intérieur
 Inward opening



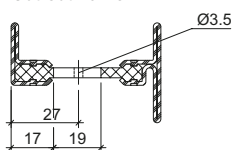
Nach aussen öffnend
 Ouvrant vers l'extérieur
 Outward opening



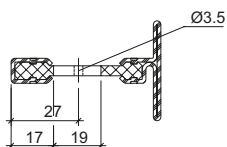
- * 2 mm Aluminiumblech durch Metallbauer zu fertigen
- * Tôle en aluminium 2 mm à fabriquer par le métallier
- * 2 mm aluminium sheet to made by metal constructor



Ausnehmung Rahmen
 Entaille cadre
 Cut-out frame



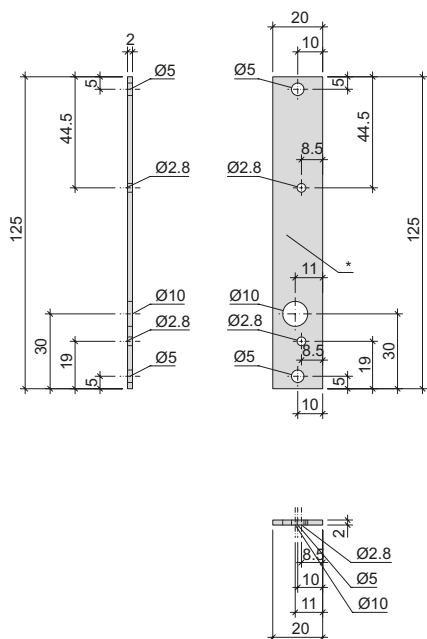
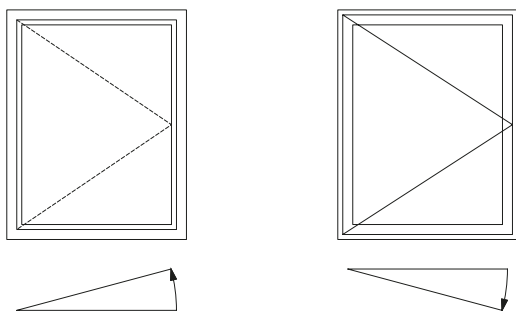
Ausnehmung Flügel
 Entaille vantail
 Cut-out sash



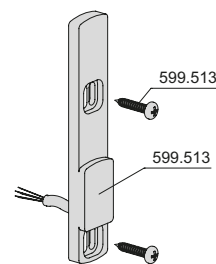
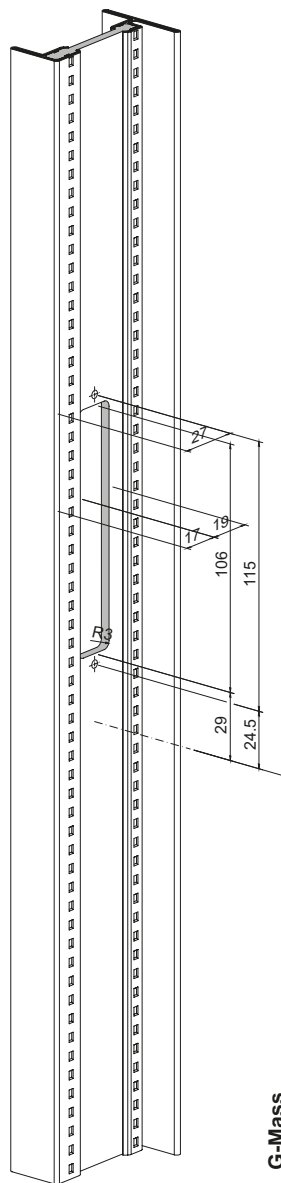
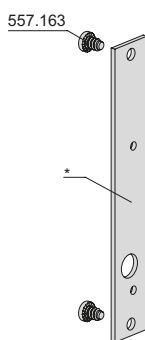
Überwachung RFID
Einbau Empfänger 599.513

Surveillance RFID
Montage récepteur 599.513

RFID monitoring
Installation recipient 599.513



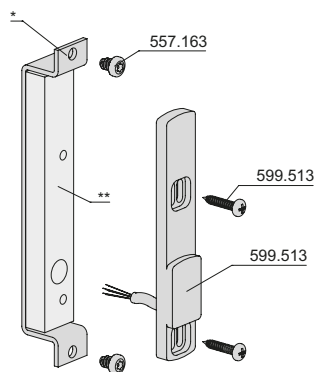
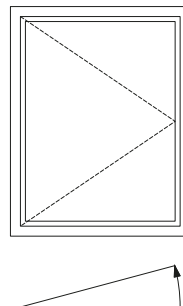
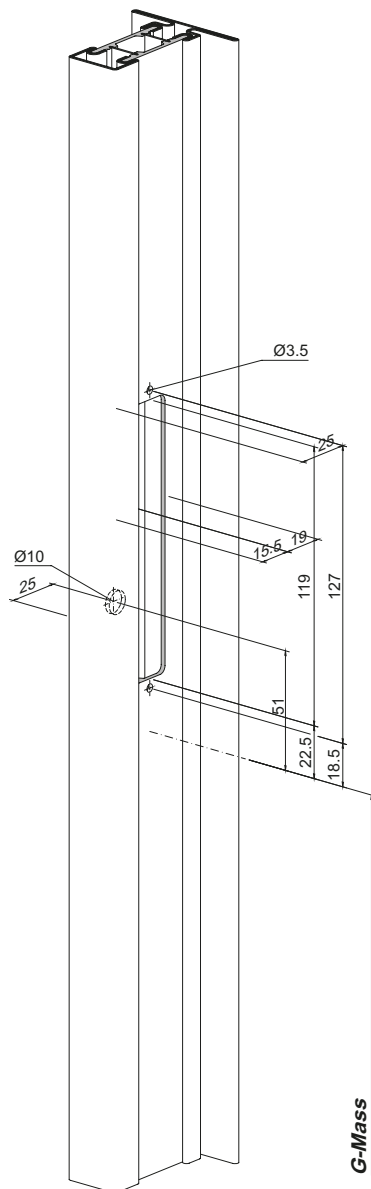
- * 2 mm Aluminiumblech durch Metallbauer zu fertigen
- * Tôle en aluminium 2 mm à fabriquer par le métallier
- * 2 mm aluminium sheet to be made by metal constructor



Überwachung RFID
Ausnehmung Rahmen
Kammermass 25/50 mm

Surveillance RFID
Évidement cadre
Dimensions de caisson 25/50 mm

RFID monitoring
Frame opening
Chamber size 25/50 mm



* 2 mm Aluminiumblech durch Metallbauer zu fertigen
 * Tôle en aluminium 2 mm à fabriquer par le métallier
 * 2 mm aluminium sheet to made by metal constructor

** Durch Metallbauer zu fertigen (Kunststoff)
 ** A fabriquer par le métallier (matière plastique)
 ** To made by metal constructor (plastic)

Überwachung RFID

Einbau Empfänger 599.513

Surveillance RFID

Montage récepteur 599.513

RFID monitoring
Installation recipient 599.513

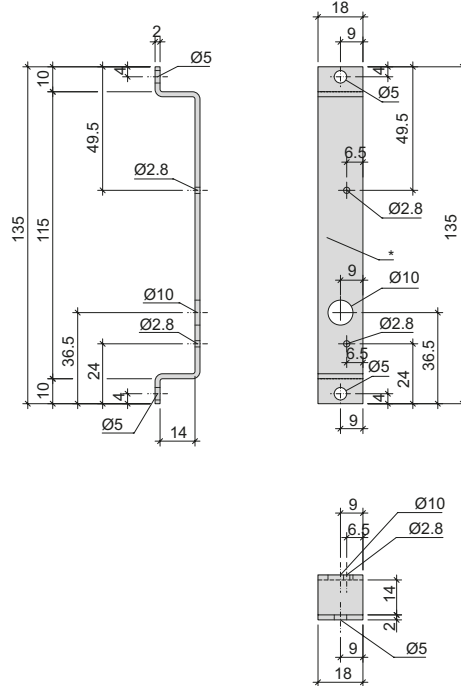
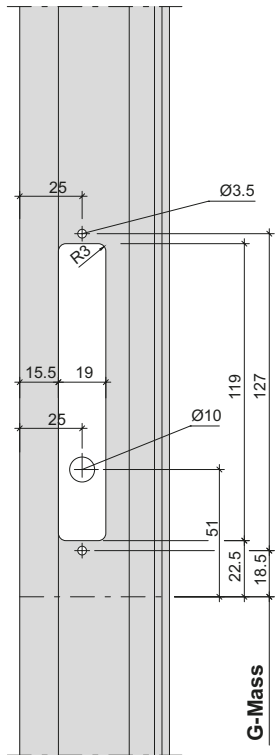
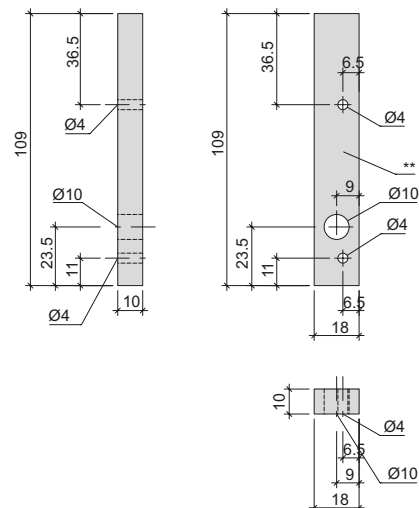
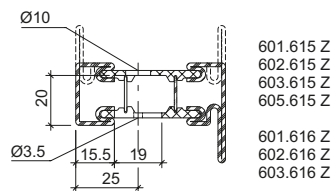
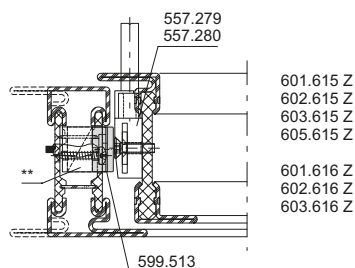


Abbildung für rechts öffnenden Flügel
Illustration pour vantail à ouverture vers la droite
Illustration for right opening leaf

- * 2 mm Aluminiumblech durch Metallbauer zu fertigen
- * Tôle en aluminium 2 mm à fabriquer par le métallier
- * 2 mm aluminium sheet to made by metal constructor



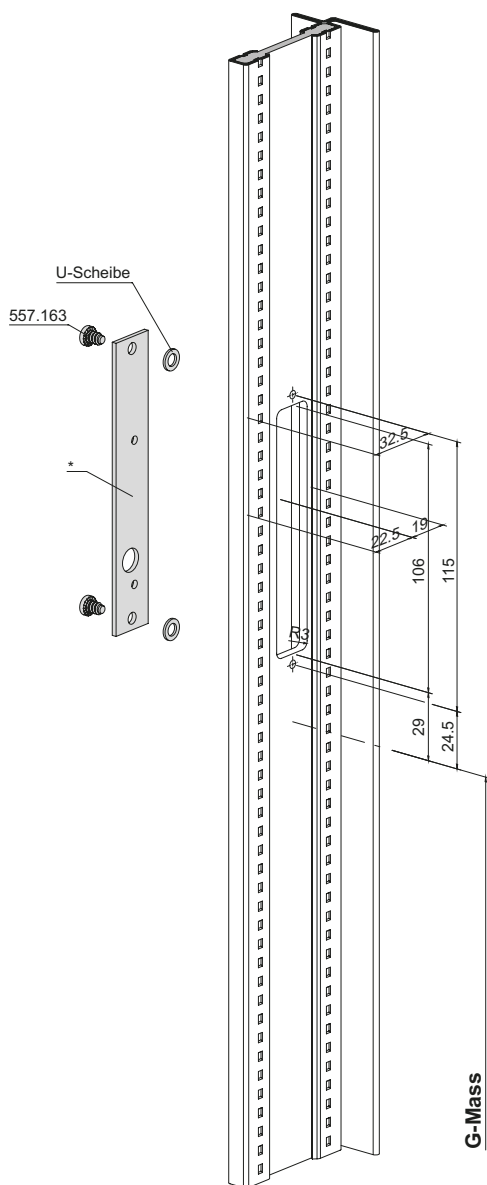
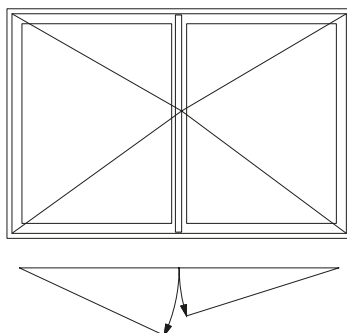
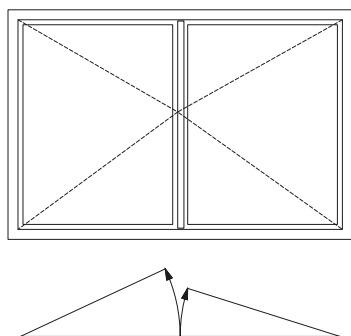
** Durch Metallbauer zu fertigen (Kunststoff)
 ** A fabriquer par le métallier (matière plastique)
 ** To made by metal constructor (plastic)



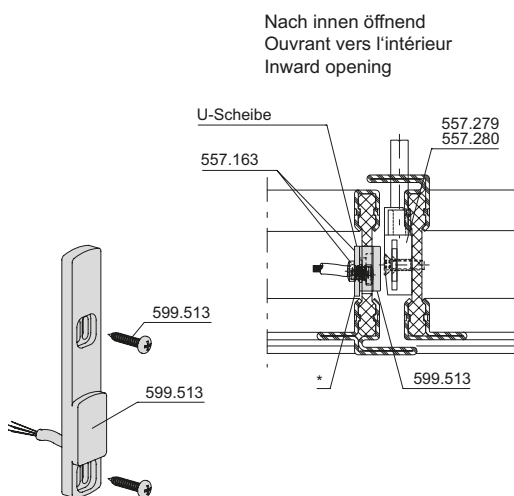
Überwachung RFID
Ausnehmung Stulpprofil

Surveillance RFID
Évidement profilé complémentaire

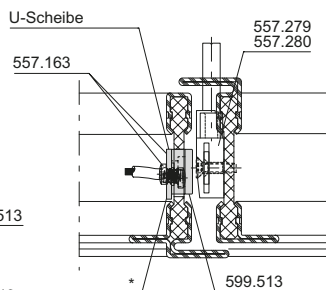
RFID monitoring
Forend profile opening



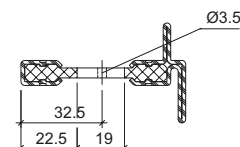
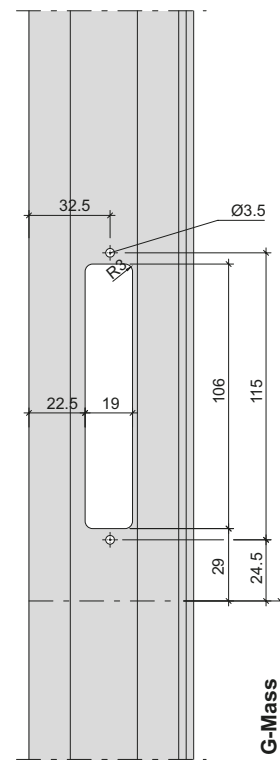
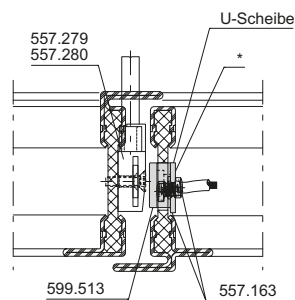
- * 2 mm Aluminiumblech durch Metallbauer zu fertigen
- * Tôle en aluminium 2 mm à fabriquer par le métallier
- * 2 mm aluminium sheet to made by metal constructor



Nach innen öffnend
 Ouvrant vers l'intérieur
 Inward opening



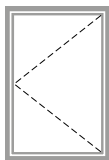
Nach aussen öffnend
 Ouvrant vers l'extérieur
 Outward opening



**Beschlag mit Getriebe
557.187**

**Ferrure avec crémonne
de tringle 557.187**

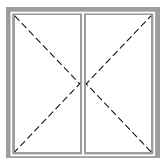
**Fitting with mechanism 171
rod 557.187**



**Drehfenster
nach innen öffnend**

**Fenêtre à la française
ouvrant vers l'intérieur**

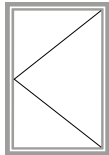
**Side-hung window 191
inward opening**



**Drehfenster
nach innen öffnend**

**Fenêtre à la française
ouvrant vers l'intérieur**

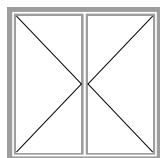
**Side-hung window 203
inward opening**



**Drehfenster
nach aussen öffnend**

**Fenêtre à la française
ouvrant vers l'extérieur**

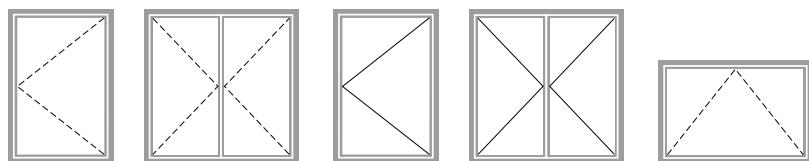
**Side-hung window 217
outward opening**



**Drehfenster
nach aussen öffnend**

**Fenêtre à la française
ouvrant vers l'extérieur**

**Side-hung window 229
outward opening**



**Beschlag mit Getriebe
557.187**

**Ferrure avec crénone
de tringle 557.187**

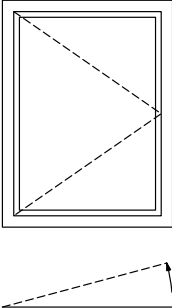
**Fitting with mechanism
rod 557.187**

Definition Symbole	Définition des symboles	Definition of symbols	172
Anordnung Verriegelungspunkte	Disposition des points de verrouillage	Arrangement of locking points	174
Einbau Glasleisten-Klipsstück im Bereich CNS-Getriebeführung	Montage du clip de parclose dans la zone du guidage de crénone CNS	Installation of glazing bead clip in the area of the CNS gearbox guide	177
Vorbereitung Getriebeverlängerung 557.188	Préparation au prolongement de la crénone 557.188	Preparation of gearbox extension 557.188	178
Einbau Getriebe 557.188	Montage crénone 557.188	Installation of mechanise 557.188	179
Einbau Getriebeverlängerung 557.188	Montage prolongement de la crénone 557.188	Preparation of gearbox extension 557.188	180
Einbau Fenstergriff 557.184 / 557.185 / 557.300	Montage poignée de fenêtre 557.184 / 557.185 / 557.300	Installation of window handle 557.184 / 557.185 / 557.300	181
Einbau Griffmitnehmer 557.186 / 557.191	Montage entraîneur de la poignée 557.186 / 557.191	Installation of handle driver 557.186 / 557.191	182
Ziehgriff 550.319	Poignée à tirer 550.319	Pull handle 550.319	183
Einbau Schliessblech 557.189	Montage de la gâche 557.189	Installation of strike plate 557.189	187
Büchse oben zu Zusatzverriegelung 557.172	Coussinet en haut du verrouillage supplémentaire 557.172	Top socket for additional lock 557.172	188

Definition Symbole

Définition des symboles

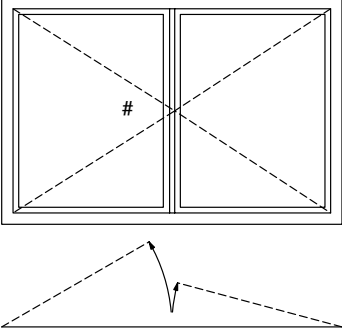
Definition of symbols



Dreh-Fenster einflügelig
nach innen öffnend

Fenêtre à la française
à un vantail
ouvrant vers l'intérieur

Single-sash side-hung window
inward opening



Dreh-Fenster zweiflügelig
nach innen öffnend

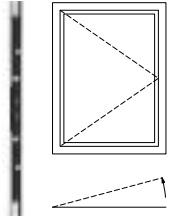
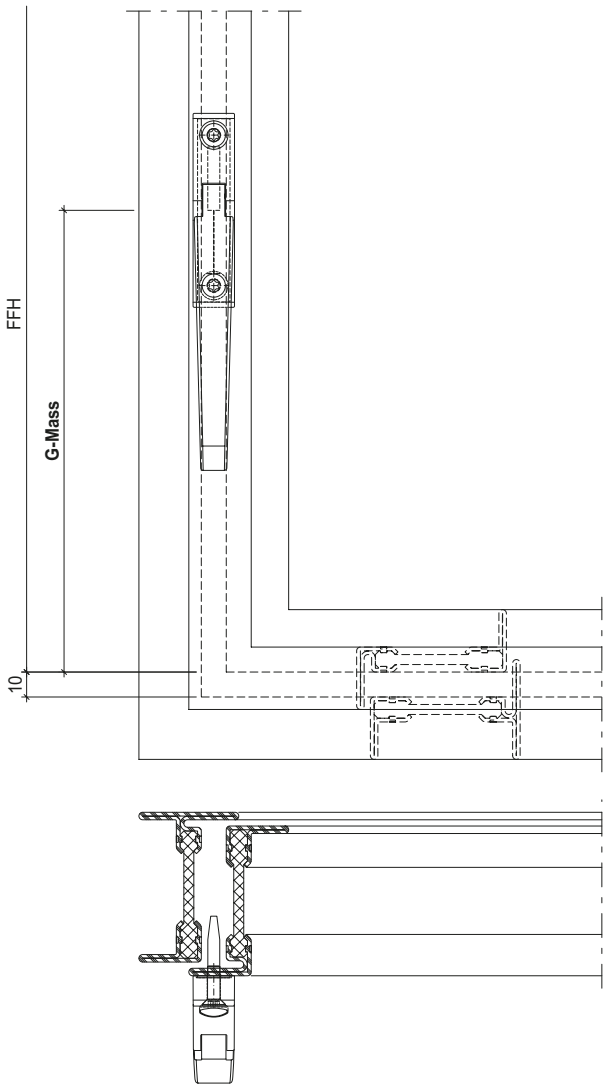
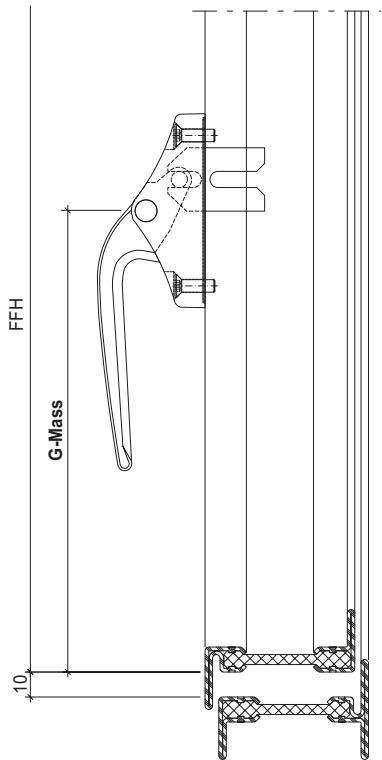
Fenêtre à la française
à deux vantaux
ouvrant vers l'intérieur

Double-sash side-hung window
inward opening

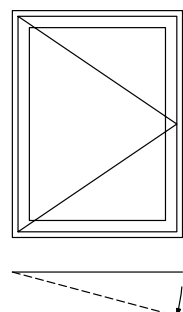
Definition G-Mass
Fenster einflügelig
nach innen öffnend

Définition de la mesure G
Fenêtre à un vantail
ouvrant vers l'intérieur

Definition of G measurement
Single-sash window
inward opening



Definition Symbole

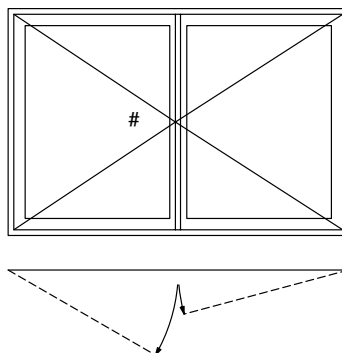


Dreh-Fenster einflügelig
nach aussen öffnend

Fenêtre à la française
à un vantail
ouvrant vers l'extérieur

Single-sash side-hung window
outward opening

Définition des symboles

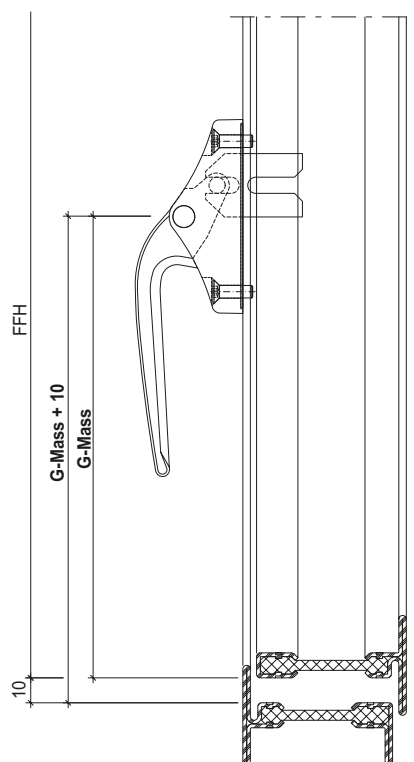


Dreh-Fenster zweiflügelig
nach aussen öffnend

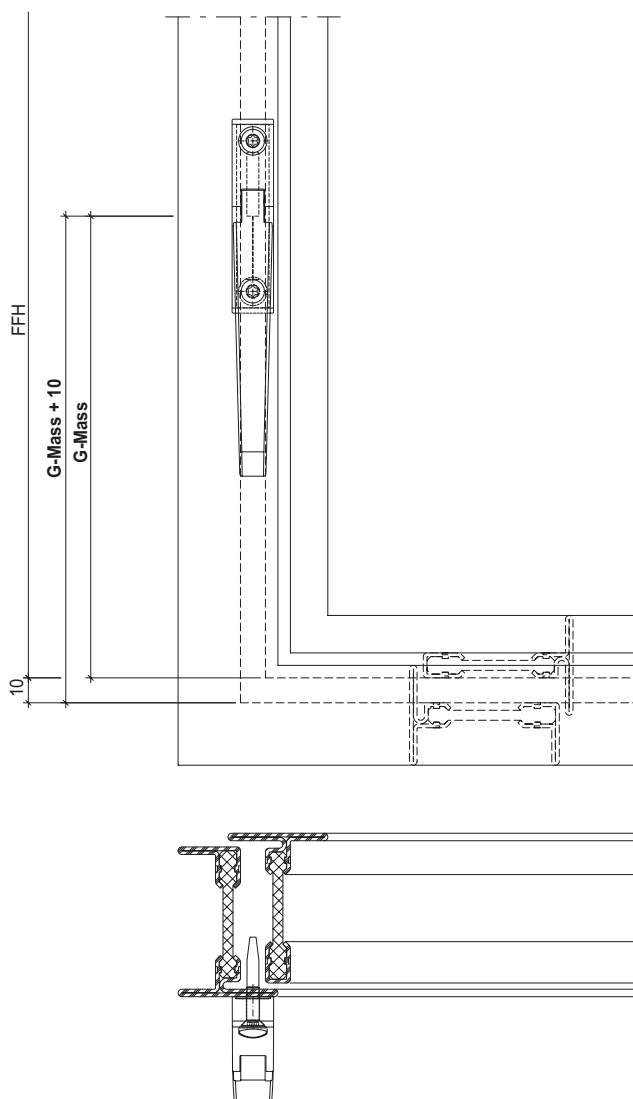
Fenêtre à la française
à deux vantaux
ouvrant vers l'extérieur

Double-sash side-hung window
outward opening

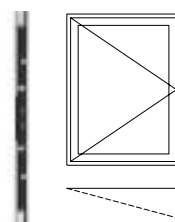
Definition G-Mass
Fenster einflügelig
nach aussen öffnend



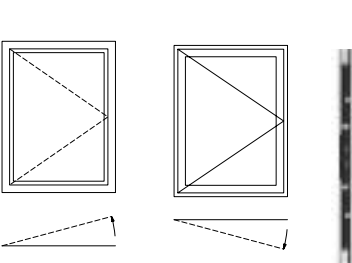
Définition de la mesure G
Fenêtre à un vantail
ouvrant vers l'extérieur



Definition of G measurement
Single-sash window
outward opening

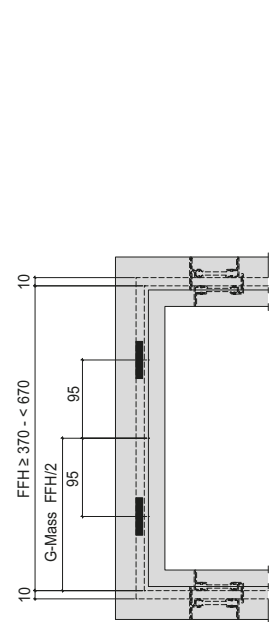


Anordnung Verriegelungspunkte
Fenster einflügelig
nach innen und aussen öffnend

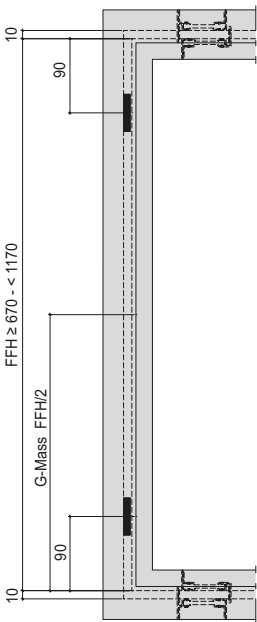


Disposition des points de verrouillage
Fenêtre à un vantail
ouvrant vers l'intérieur et l'extérieur

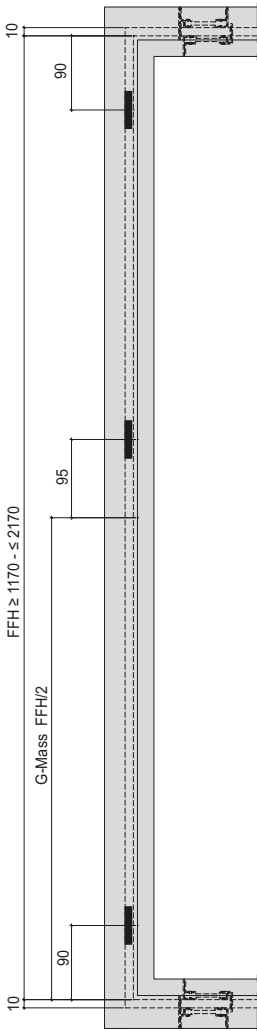
Arrangement of locking points
Single-sash window
inward and outward opening



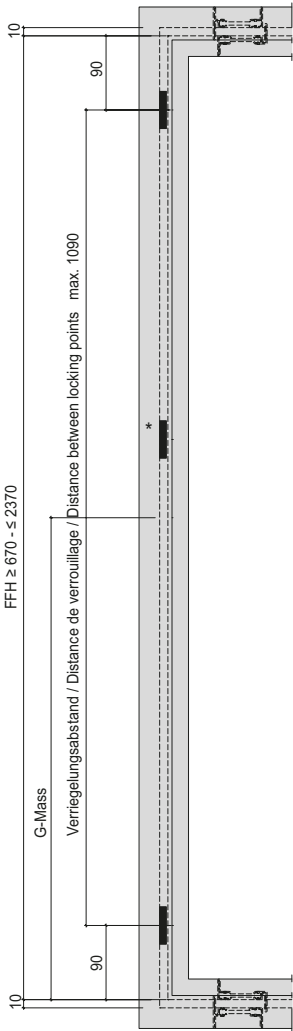
FFH 370 - 669 mm
G-Mass FFH/2



FFH 670 - 1169 mm
G-Mass FFH/2



FFH 1170 - 2170 mm
G-Mass FFH/2



FFH 670 - 2370 mm
freies G-Mass (min. 185 mm)
Mesure G libre (min. 185 mm)
unspecified G measurement
(min. 185 mm)

Übersicht Verriegelungen

Sommaire des verrouillages

Summary of locking

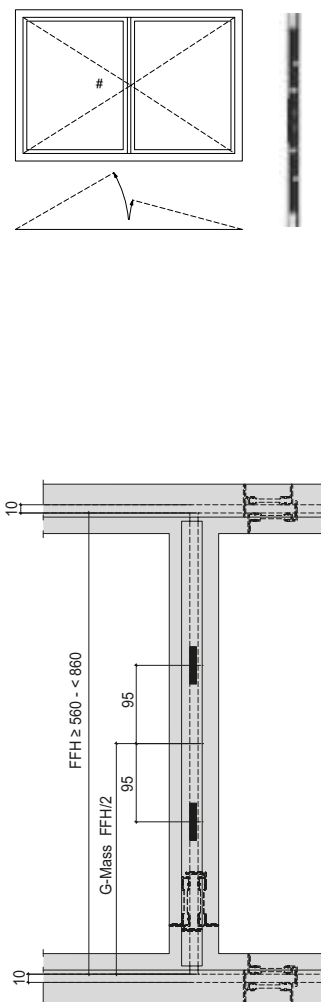
	FFH			
	370 x 669 mm	670 x 1169 mm	1170 x 2170 mm	- 2370 mm
	G = (FFH/2)			
557.188	–	1x	1x	2x
557.187	1x	1x	1x	1x
557.188	–	1x	1x	2x
557.186	1x	1x	1x	1x
557.189	1x(2)	1x(2)	1x(3)	1x (4)
557.190	1x(2)	1x(2)	1x(3)	1x (4)

- * zusätzlicher Verriegelungspunkt > 1090 mm
- * point de verrouillage supplémentaire > 1090 mm
- * additional locking point > 1090 mm

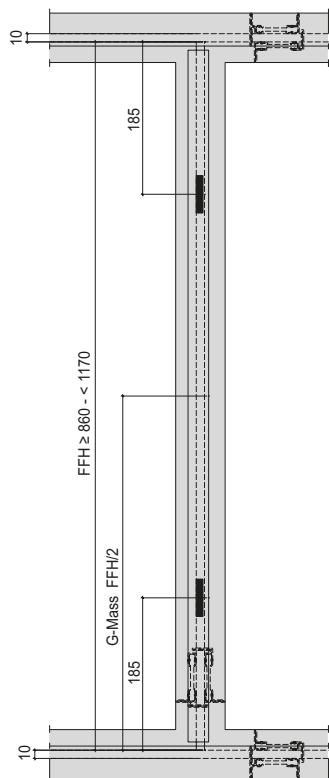
Anordnung Verriegelungspunkte
Fenster zweiflügelig
nach innen öffnend

Disposition des points de verrouillage
Fenêtre à deux vantaux
ouvrant vers l'intérieur

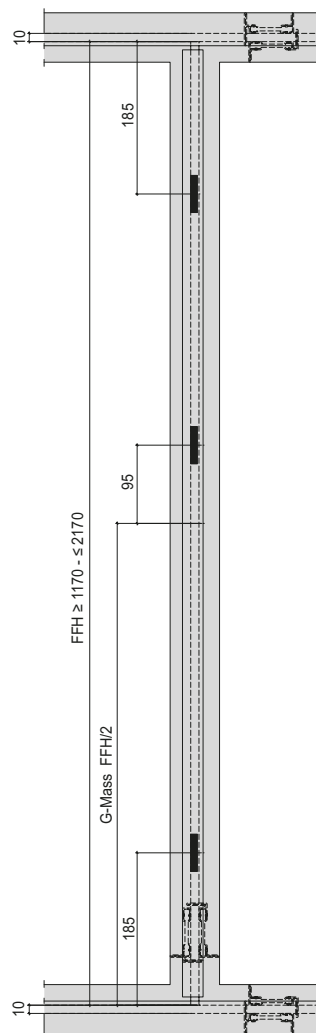
Arrangement of locking points
Double-sash window
inward opening



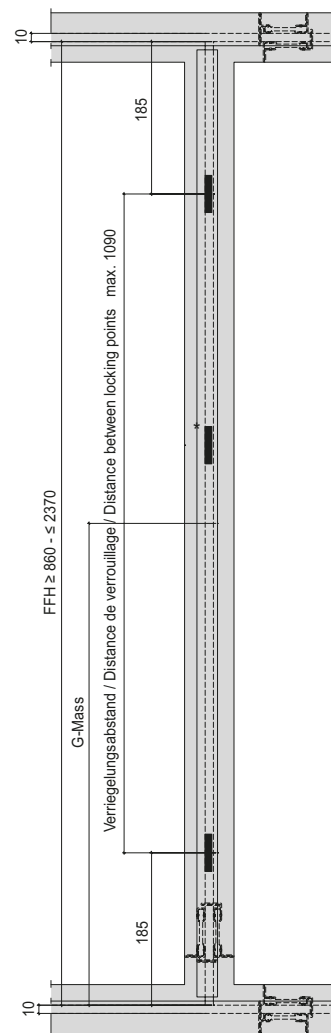
FFH 560 - 859 mm
 G-Mass FFH/2



FFH 860 - 1169 mm
 G-Mass FFH/2



FFH 1170 - 2170 mm
 G-Mass FFH/2



FFH 860 - 2370 mm
 freies G-Mass (min. 280 mm)
 Mesure G libre (min. 280 mm)
 unspecified G measurement
 (min. 280 mm)

Übersicht Verriegelungen

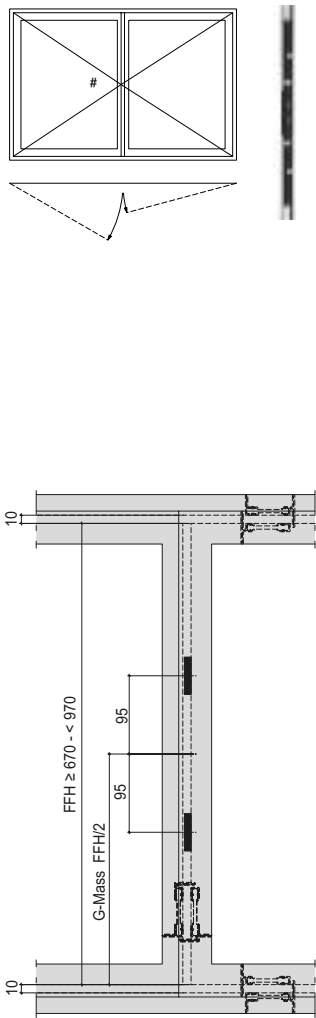
Sommaire des verrouillages

Summary of locking

	FFH			
	370 x 669 mm	670 x 1169 mm	1170 x 2170 mm	- 2370 mm
	G = (FFH/2)			
557.188	–	1x	1x	2x
557.187	1x	1x	1x	1x
557.188	–	1x	1x	2x
557.191	1x	1x	1x	1x
557.189	1x(2)	1x(2)	1x(3)	1x (4)
557.190	1x(2)	1x(2)	1x(3)	1x (4)

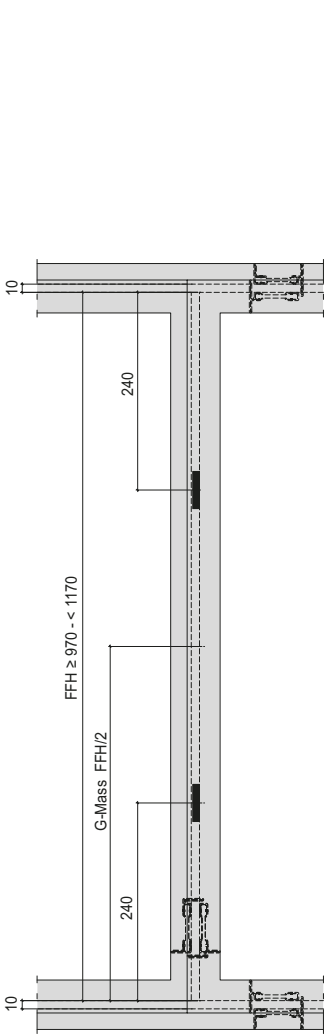
- * zusätzlicher Verriegelungspunkt > 1090 mm
- * point de verrouillage supplémentaire > 1090 mm
- * additional locking point > 1090 mm

Anordnung Verriegelungspunkte
Fenster zweiflügelig
nach aussen öffnend



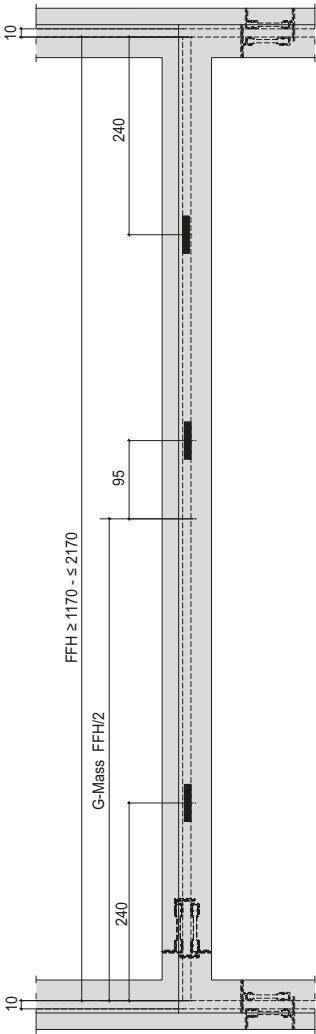
FFH 670 - 969 mm
G-Mass FFH/2

Disposition des points de verrouillage
Fenêtre à deux vantaux
ouvrant vers l'extérieur

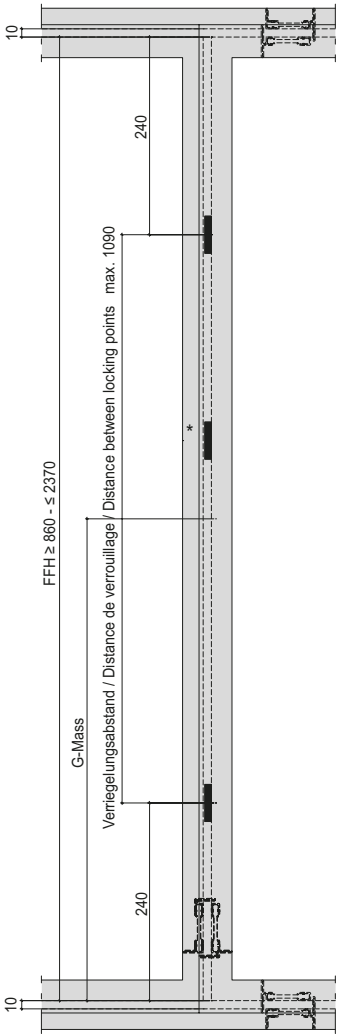


FFH 970 - 1169 mm
G-Mass FFH/2

Arrangement of locking points
Double-sash window
outward opening



FFH 1170 - 2170 mm
G-Mass FFH/2



FFH 860 - 2370 mm
freies G-Mass (min. 335 mm)
Mesure G libre (min. 335 mm)
unspecified G measurement
(min. 335 mm)

Übersicht Verriegelungen

Sommaire des verrouillages

Summary of locking

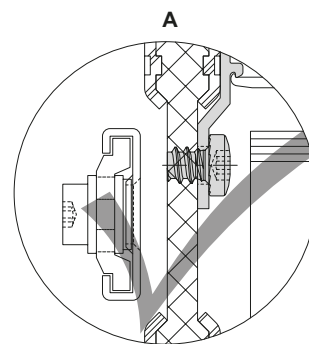
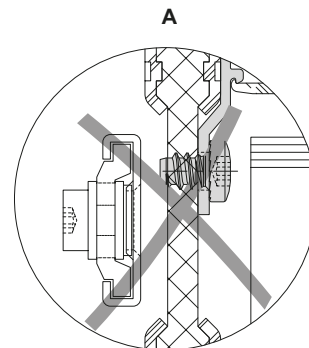
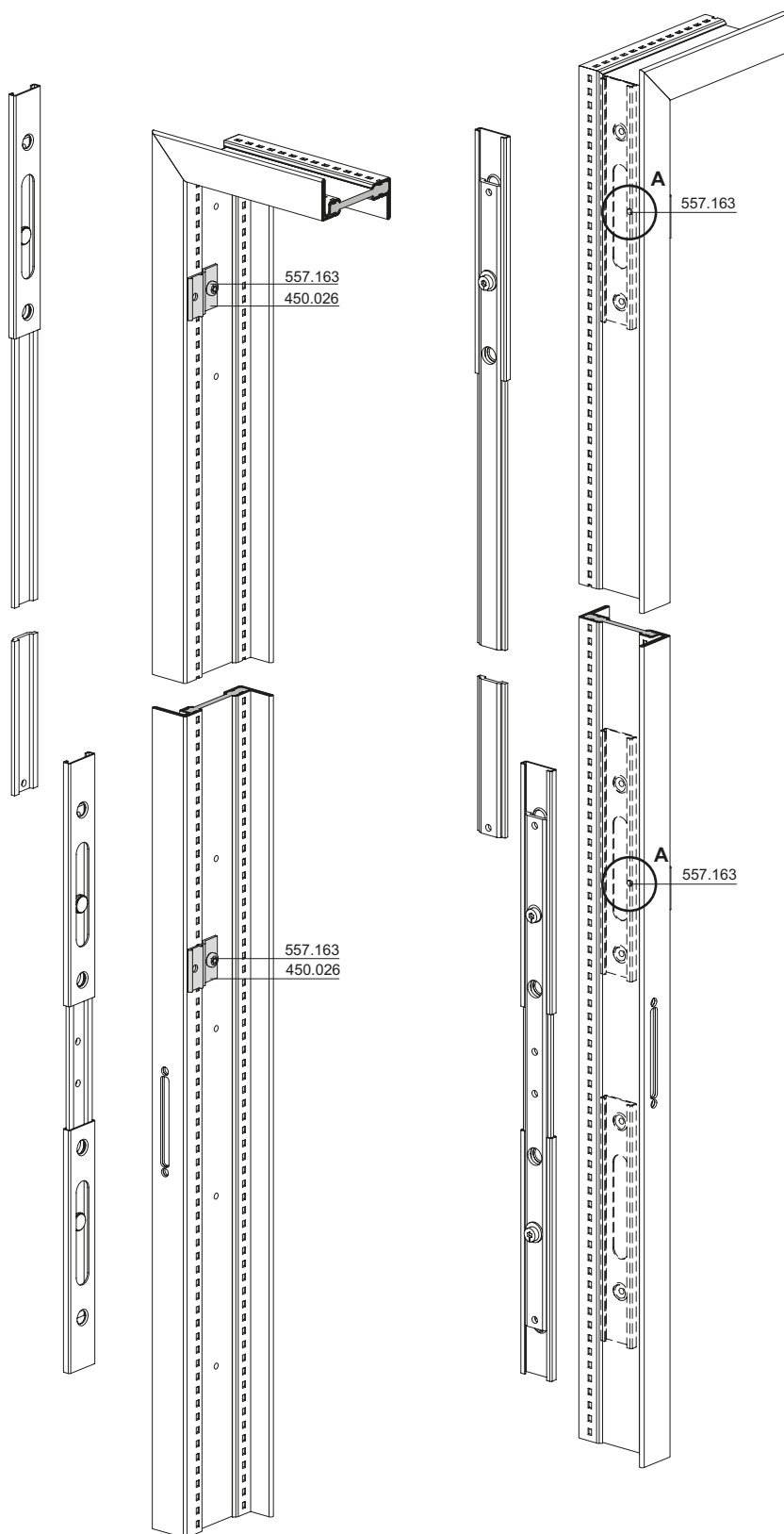
	FFH			
	370 x 669 mm	670 x 1169 mm	1170 x 2170 mm	- 2370 mm
	G = (FFH/2)			
557.188	–	1x	1x	2x
557.187	1x	1x	1x	1x
557.188	–	1x	1x	2x
557.191	1x	1x	1x	1x
557.189	1x(2)	1x(2)	1x(3)	1x (4)
557.190	1x(2)	1x(2)	1x(3)	1x (4)

- * zusätzlicher Verriegelungs-
punkt > 1090 mm
- * point de verrouillage
supplémentaire > 1090 mm
- * additional locking point
> 1090 mm

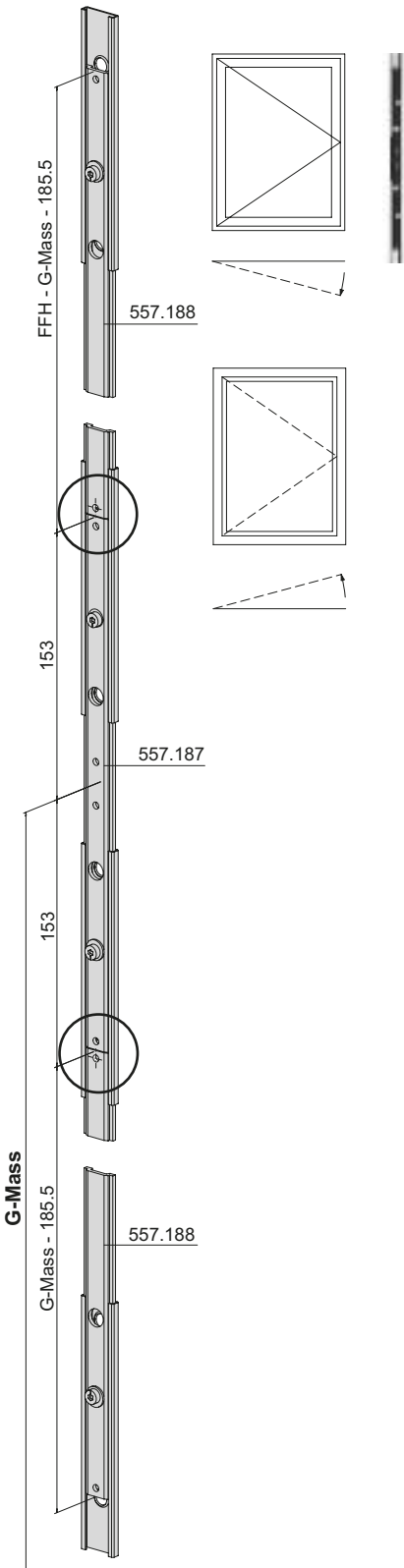
**Einbau Glasleisten-Klipsstück
 im Bereich CNS-Getriebeführung**

**Montage du clip de parciose dans la
 zone du guidage de crémono CNS**

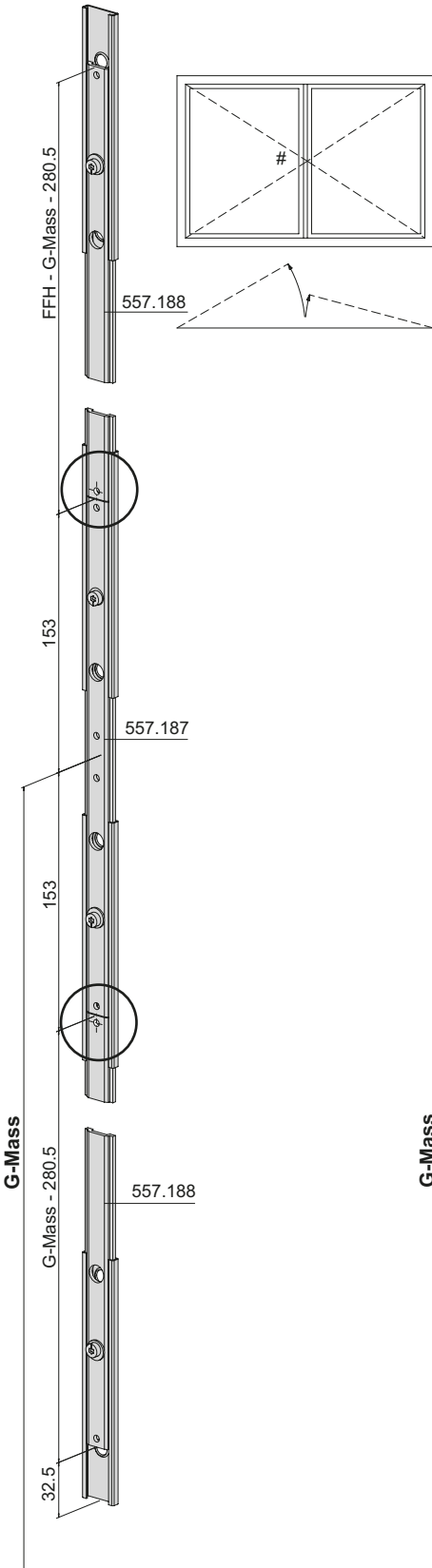
**Installation of glazing bead clip in
 the area of the CNS gearbox guide**



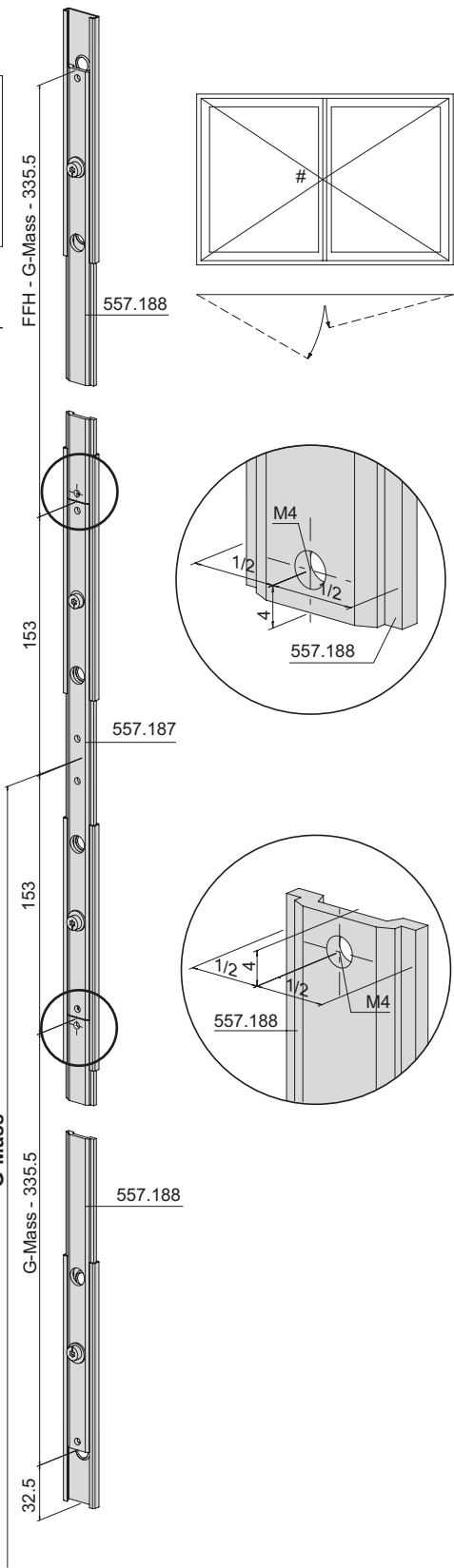
Vorbereitung
Getriebeverlängerung 557.188



Préparation au prolongement de la
crémone 557.188



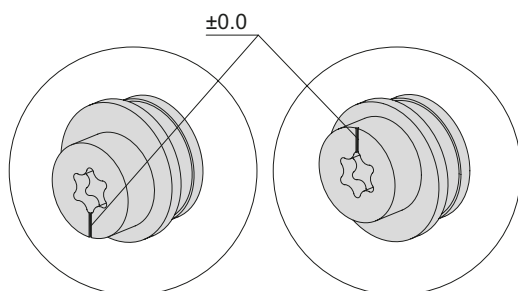
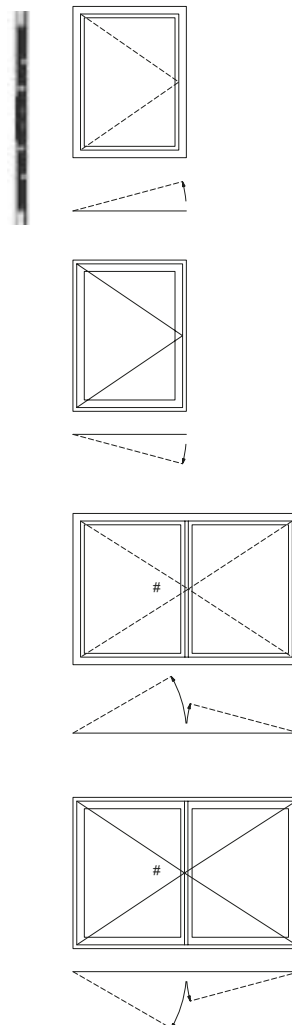
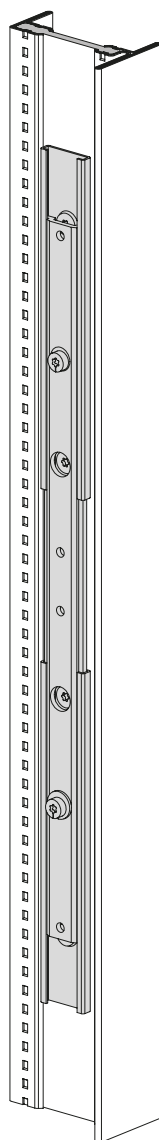
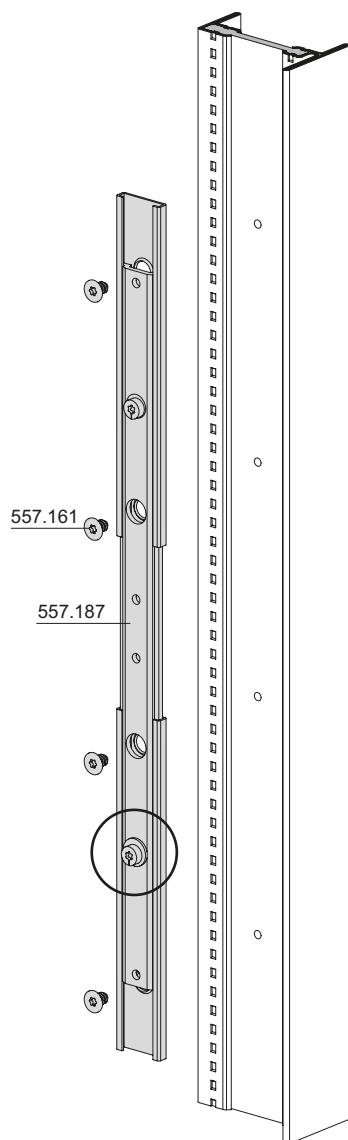
Preparation of
gearbox extension 557.188



Einbau Getriebe 557.187

Montage crémonne 557.187

Installation of mechanism 557.187

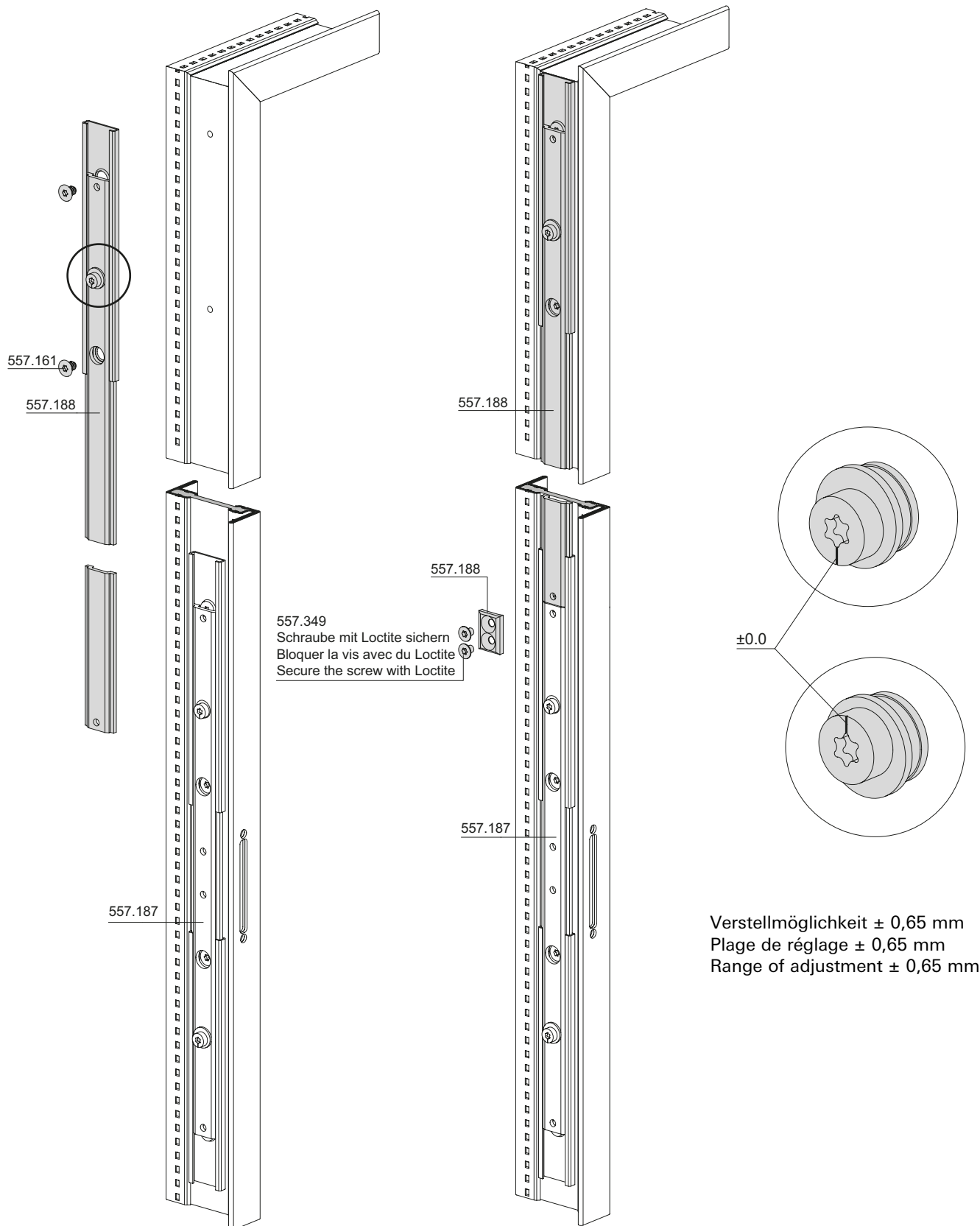


Verstellmöglichkeit $\pm 0,65$ mm
Plage de réglage $\pm 0,65$ mm
Range of adjustment $\pm 0,65$ mm

Einbau
Getriebeverlängerung 557.188

Montage prolongement de la
crémone 557.188

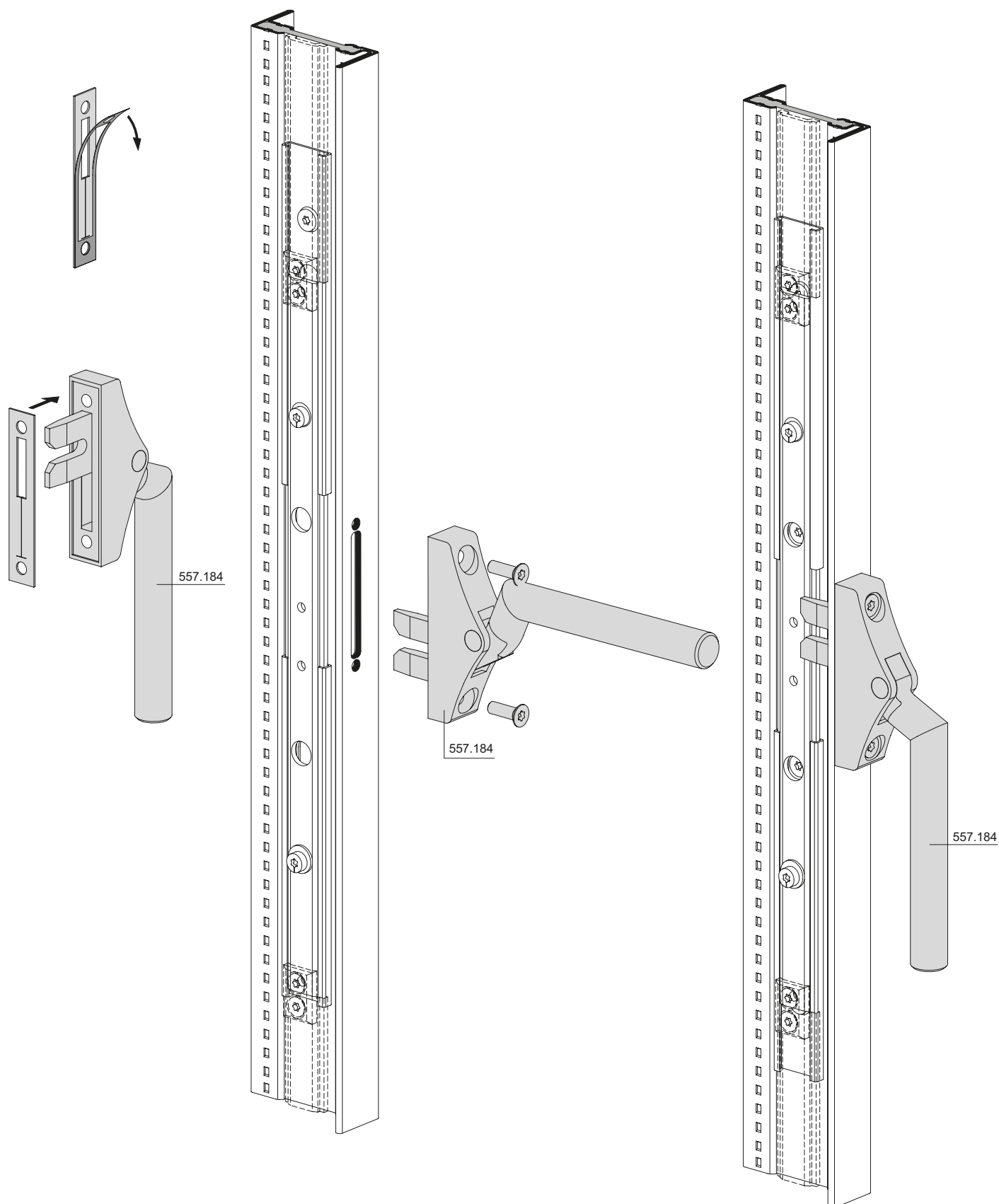
Installation of
gearbox extension 557.188



Einbau Fenstergriff
557.184 / 557.185 / 557.300

Montage poignée de fenêtre
557.184 / 557.185 / 557.300

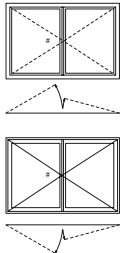
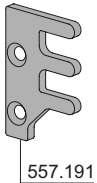
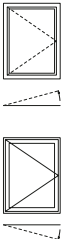
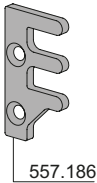
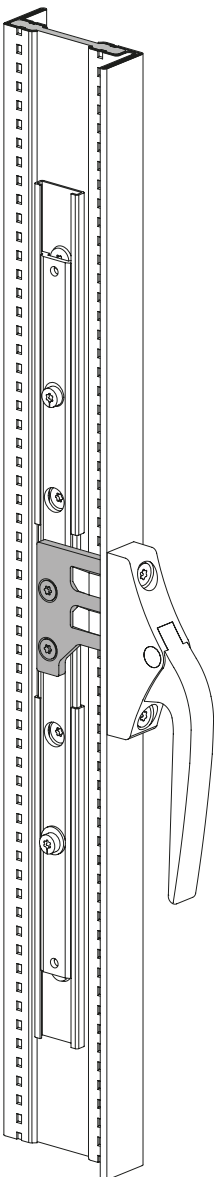
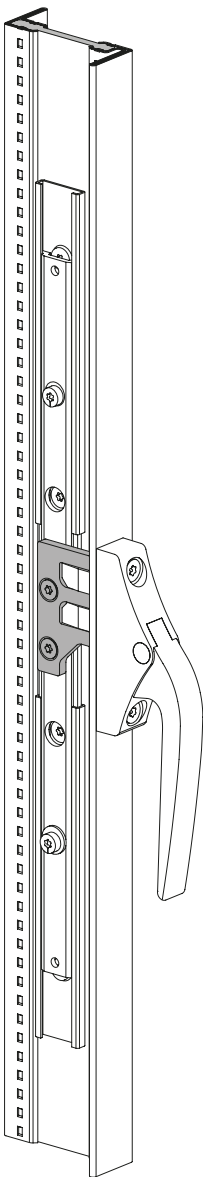
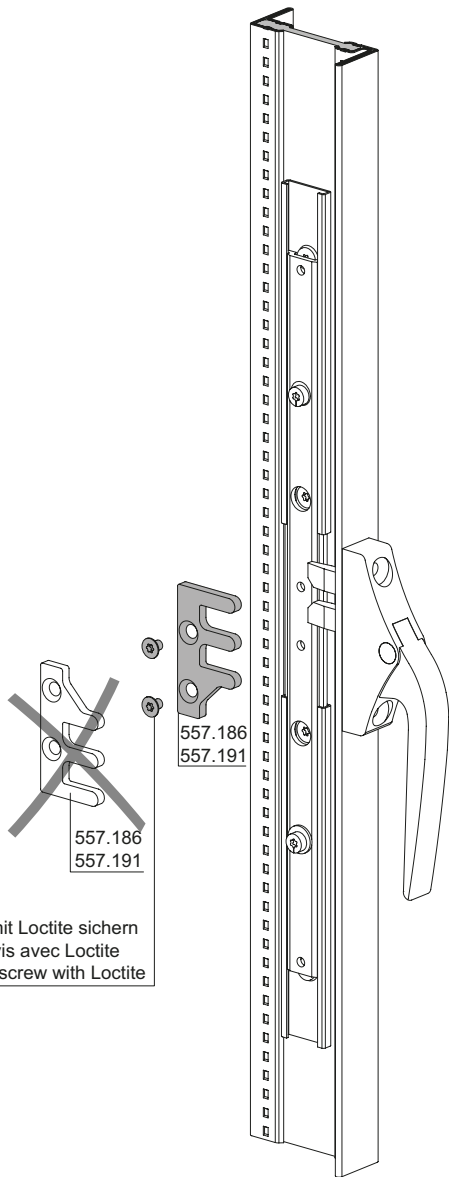
Installation of window handle
557.184 / 557.185 / 557.300



Einbau Griffmitnehmer
557.186 / 557.191

Montage entraîneur de poignée
557.186 / 557.191

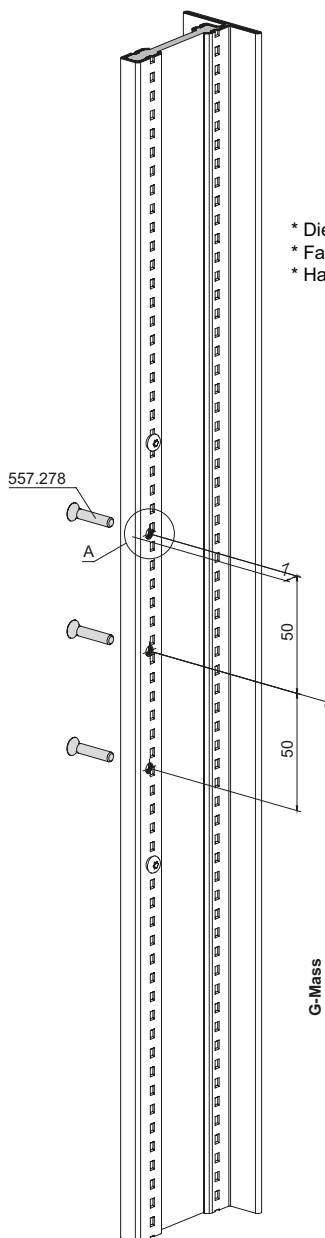
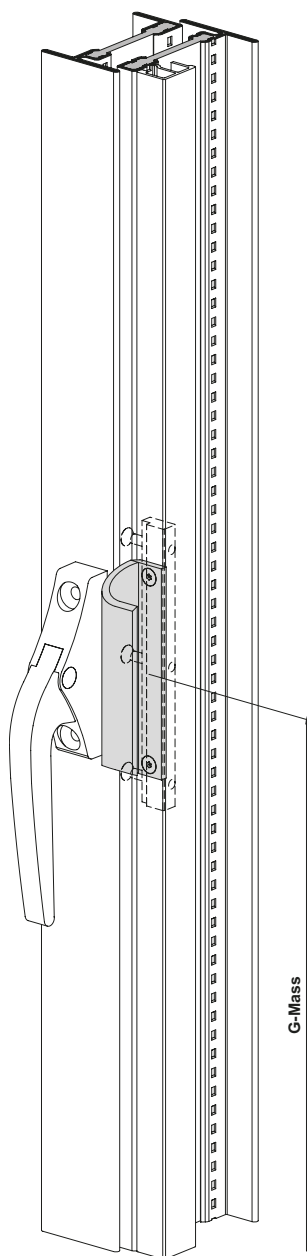
Installation of handle driver
557.186 / 557.191



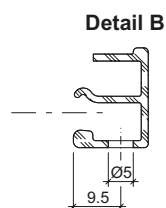
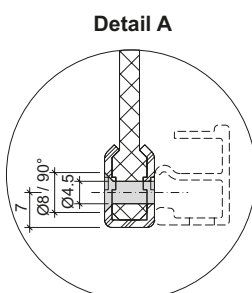
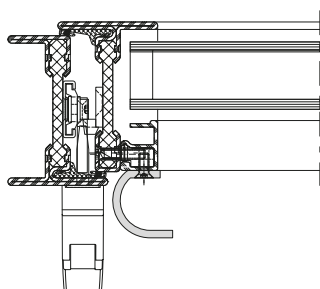
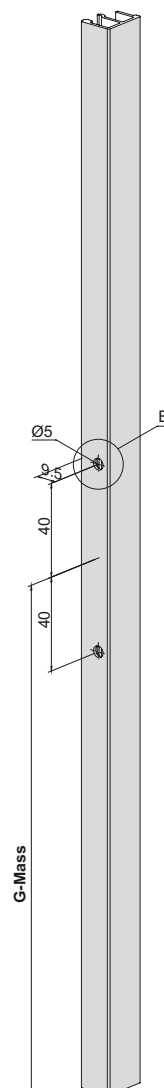
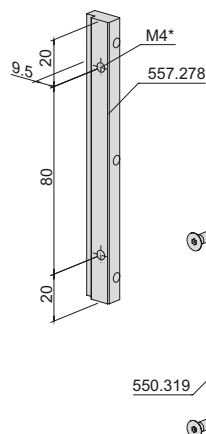
Ziehgriff 550.319 bei nach
aussen öffnendem Fenster
für Glasleisten 405.030-405.035
Flügel

Poignée à tirer 550.319 sur une
fenêtre à ouverture vers l'extérieur
pour parclores 405.030-405.035
Vantail

Pull handle 550.319 for
outward-opening window for
glazing beads 405.030-405.035
Sash



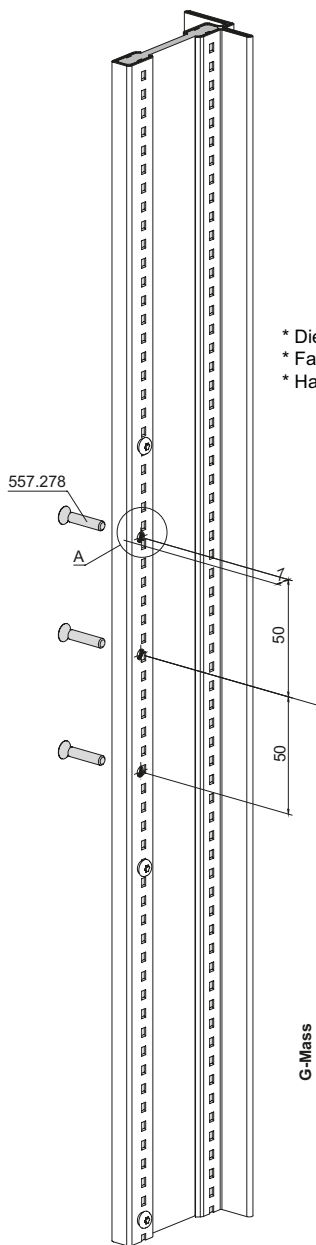
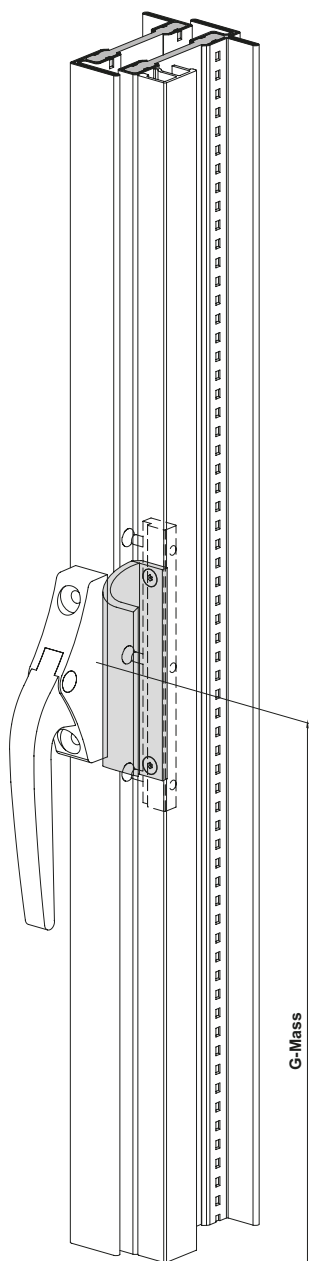
- * Die M4-Bohrung durch Metallbauer ausführen
- * Faire effectuer le perçage M4 par le constructeur métallique
- * Have a metalworker drill the M4 hole



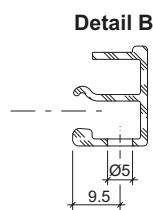
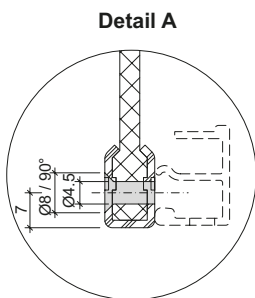
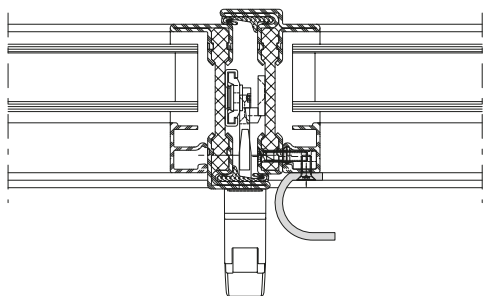
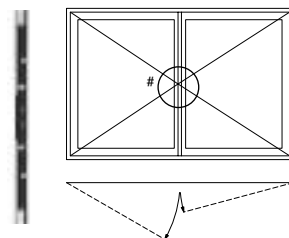
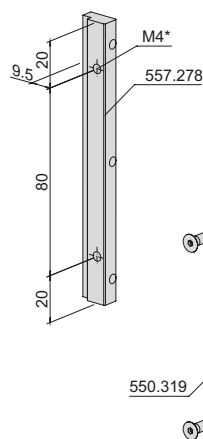
Ziehgriff 550.319 bei nach
aussen öffnendem Fenster
für Glasleisten 405.030-405.035
Stulpfenster

Poignée à tirer 550.319 sur une
fenêtre à ouverture vers l'extérieur
pour parcloles 405.030-405.035
Fenêtre à deux vantaux

Pull handle 550.319 for
outward-opening window for
glazing beads 405.030-405.035
Double sash window



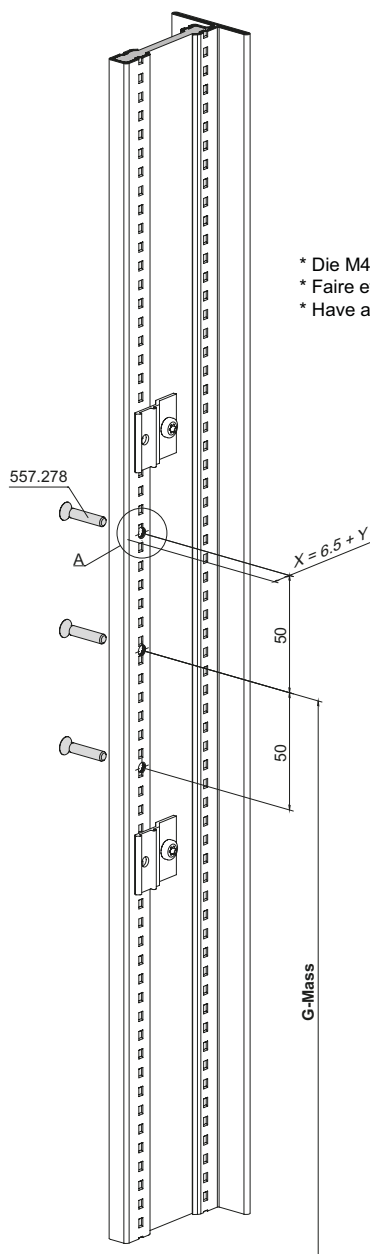
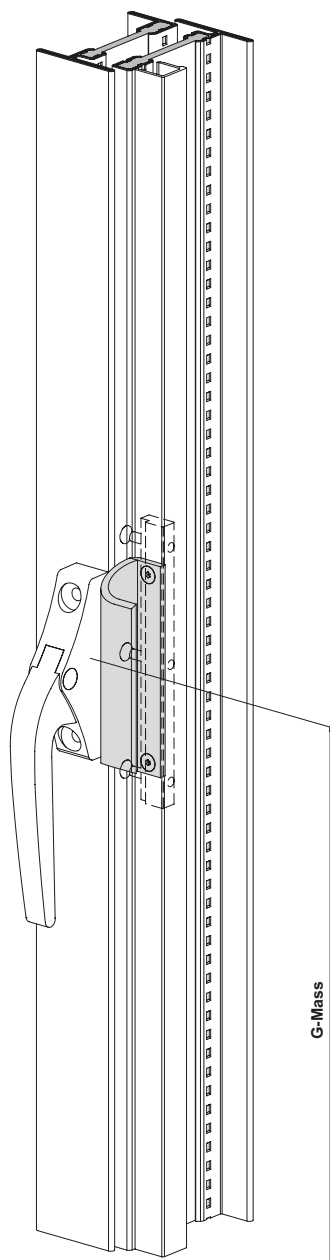
- * Die M4-Bohrung durch Metallbauer ausführen
- * Faire effectuer le perçage M4 par le constructeur métallique
- * Have a metalworker drill the M4 hole



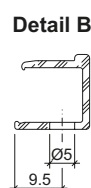
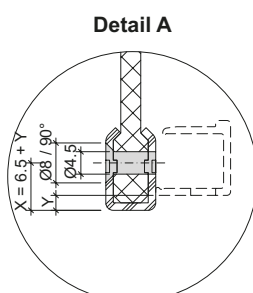
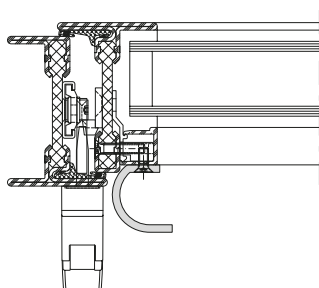
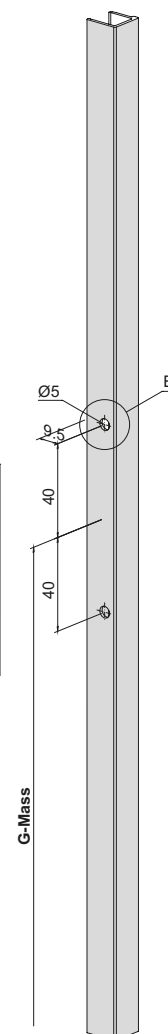
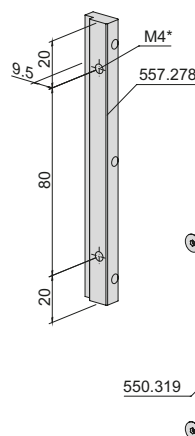
Ziehgriff 550.319 bei nach
aussen öffnendem Fenster
für Glasleisten 405.021-405.025
Flügel

Poignée à tirer 550.319 sur une
fenêtre à ouverture vers l'extérieur
pour parclores 405.021-405.025
Vantail

Pull handle 550.319 for
outward-opening window for
glazing beads 405.021-405.025
Sash



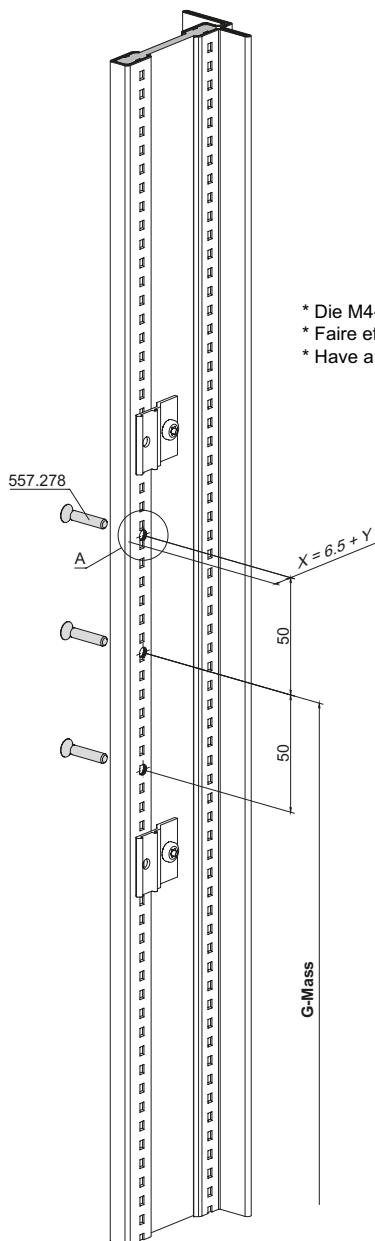
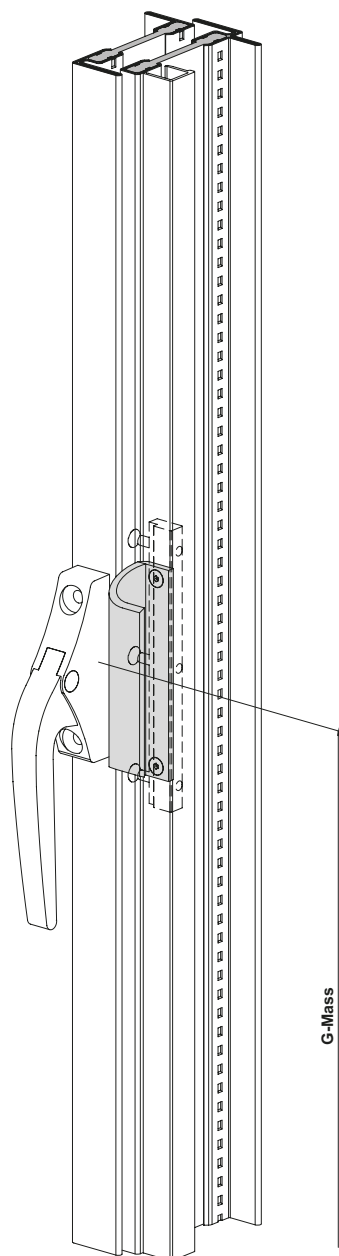
- * Die M4-Bohrung durch Metallbauer ausführen
- * Faire effectuer le perçage M4 par le constructeur métallique
- * Have a metalworker drill the M4 hole



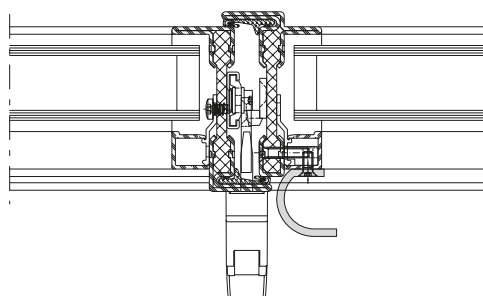
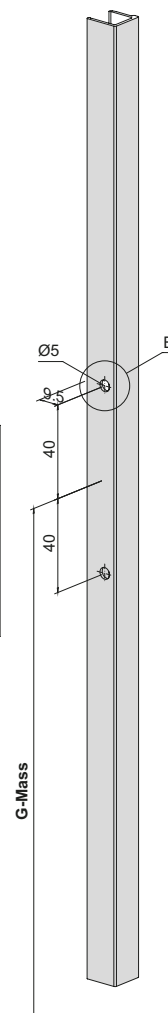
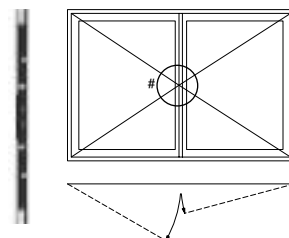
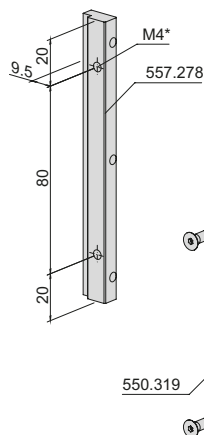
Ziehgriff 550.319 bei nach
aussen öffnendem Fenster
für Glasleisten 405.021-405.025
Flügel

Poignée à tirer 550.319 sur une
fenêtre à ouverture vers l'extérieur
pour parclores 405.021-405.025
Vantail

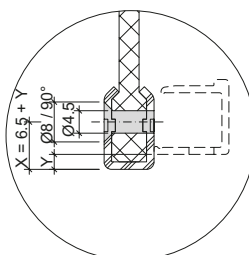
Pull handle 550.319 for
outward-opening window for
glazing beads 405.021-405.025
Sash



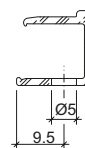
- * Die M4-Bohrung durch Metallbauer ausführen
- * Faire effectuer le perçage M4 par le constructeur métallique
- * Have a metalworker drill the M4 hole



Detail A



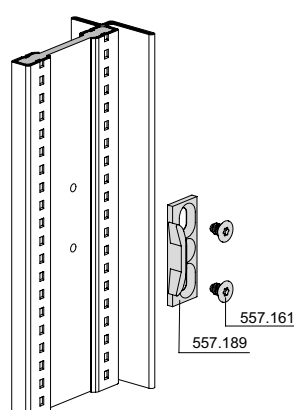
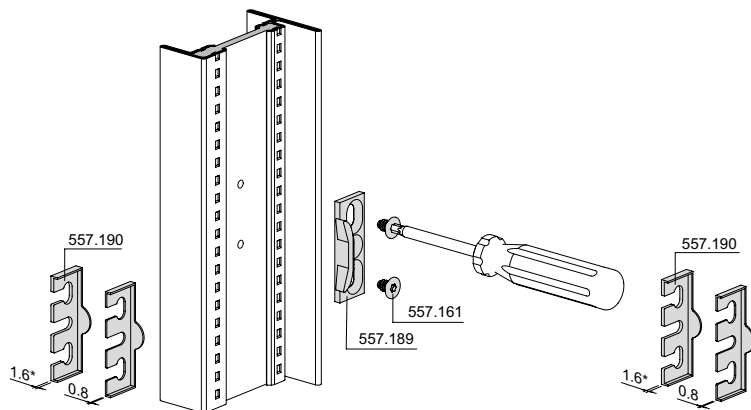
Detail B



Einbau Schliessblech 557.189
Schliessblech-Unterlage 557.190
 ab FFB $\geq$ 670 mm empfohlen

Montage de la gâche 557.189
Butée de gâche 557.190 recommandé
 à partir de FFB $\geq$ 670 mm

Installation of striking plate 557.189
Striking plate support 557.190
 Recommended from sash rebate width $\geq$ 670 mm

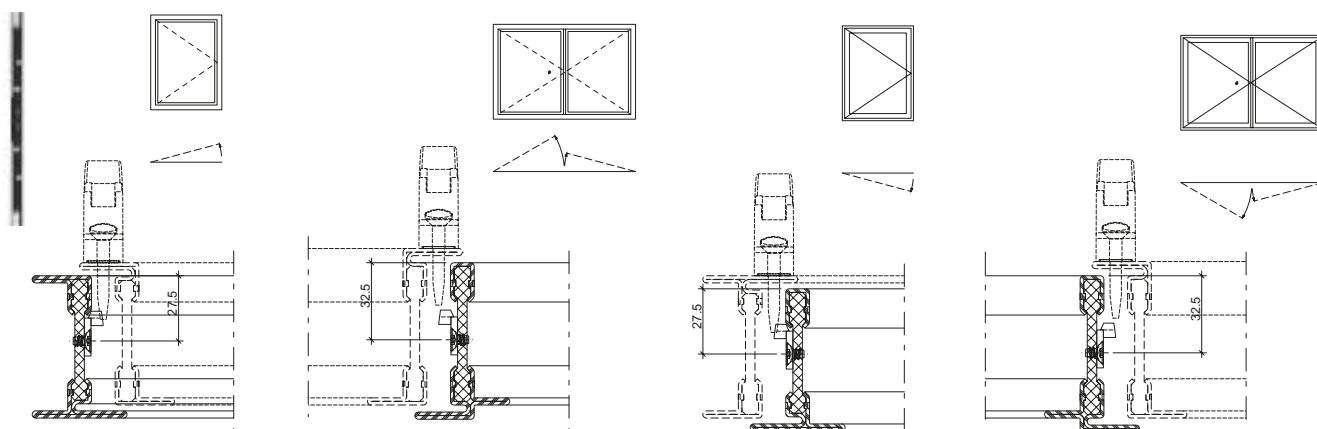
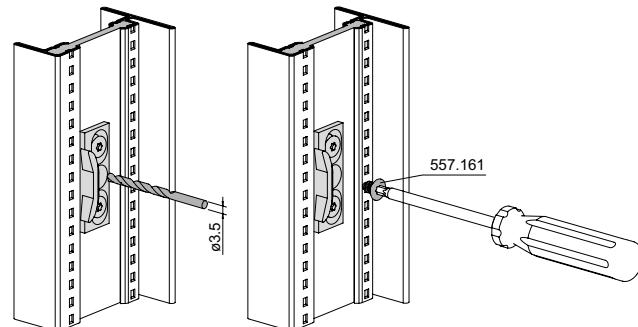
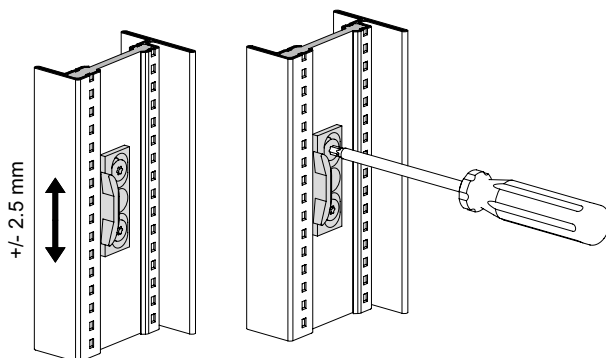


- * Bei Verwendung der 1,6 mm Unterlage, Schraube vorsichtig anziehen.
- * En cas d'utilisation de butée de la gâche 1,6 mm, serrer la vis prudent.
- * When using striking plate support 1,6 mm, screw carefully tighten

Fixierschraube nach Verglasung einsetzen
 Bohren mit Tiefenanschlag (Glasbruch)

Mettre la vis de blocage en place après la pose du vitrage
 Perçer avec butée (bris de verre)

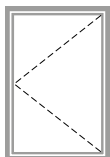
Insert fixing screw after glazing
 Drilling with depth stop (glass breakage)



Seitliche Toleranzaufnahme:
 Einsatz von Unterlagen 0,8 mm oder 1,6 mm je nach Situation einsetzbar.

Rattrapage des jeux latéraux
 Utilisation de cales 0,8 mm ou 1,6 mm selon la situation.

Lateral tolerance:
 0,8 mm or 1,6 mm supports can be used depending on the circumstances.



Drehfenster nach innen öffnend	Fenêtre à la française ouvrant vers l'intérieur	Side-hung window inward opening	
Zuschnitt Getriebeverlängerung Bohrbild Getriebeverlängerung und Schliessbleche	Découpe prolongement de la crémonne Schéma de perçage prolongement de la crémonne et gâches	Cutting gearbox extension Drilling pattern gearbox extension and striking plates	192
Bohrlehre 499.436 für Getriebe 557.187 und Fenstergriff 557.185	Gabarit de perçage 499.436 pour crémonne 557.187 et poignée de fenêtre 557.185	Drilling jig 499.436 for mechanism 557.187 and window handle 557.185	196
Bohrlehre 499.436 für Getriebeverlängerung 557.188	Gabarit de perçage 499.436 pour prolongement de la crémonne 557.188	Drilling jig 499.436 for gearbox extension 557.188	198
Bohrlehre 499.436 für Schliessbleche 557.189	Gabarit de perçage 499.436 pour gâches 557.189	Drilling jig 499.436 for striking plates 557.189	200

Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 370-669

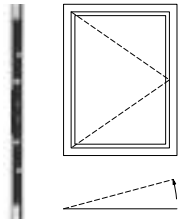
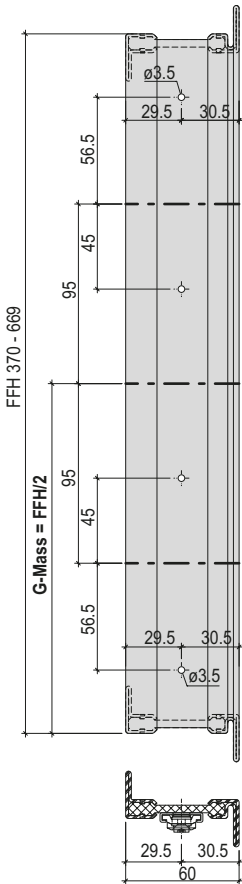
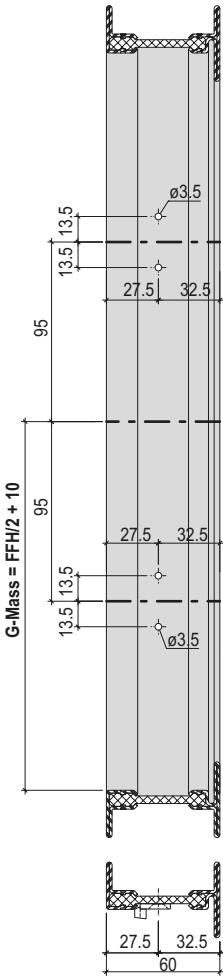
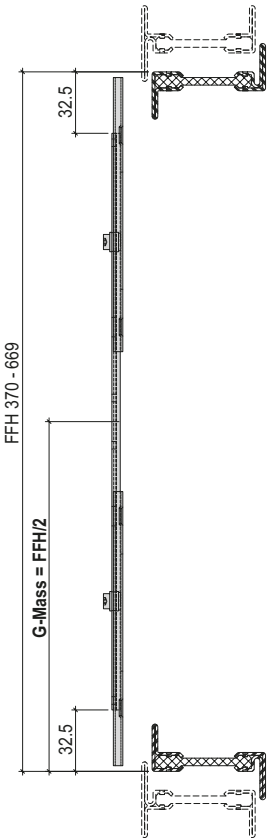
Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 370-669

Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 370-669

Zuschnitt/Découpe/Cutting

Rahmen/Cadre/Frame

Flügel/Vantail/Sash

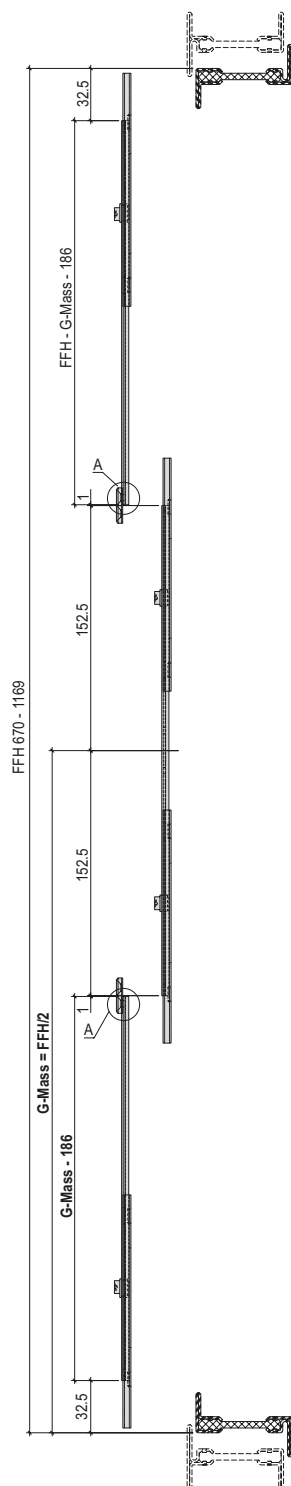


**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 670-1169**

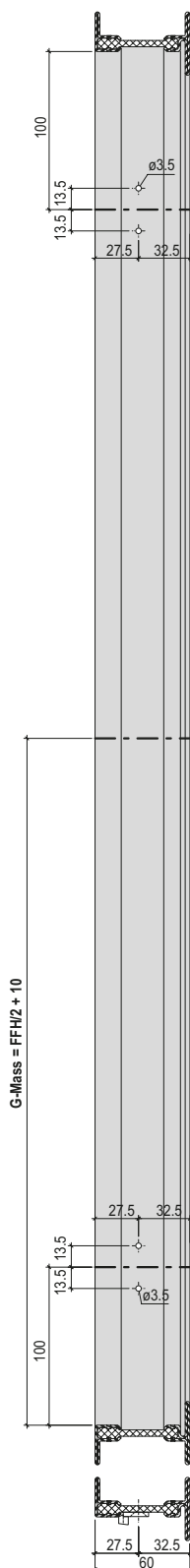
**Découpe prolongement de la crème
Schéma de perçage prolongement
de la crème et gâches
FFH 670-1169**

**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 670-1169**

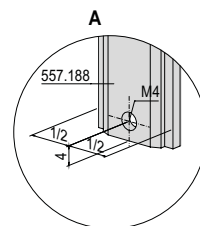
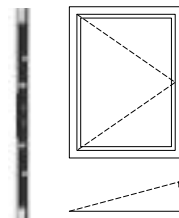
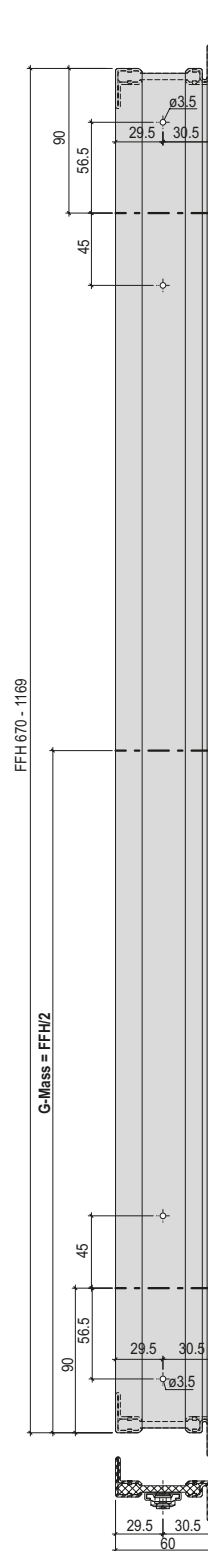
Zuschnitt/Découpe/Cutting



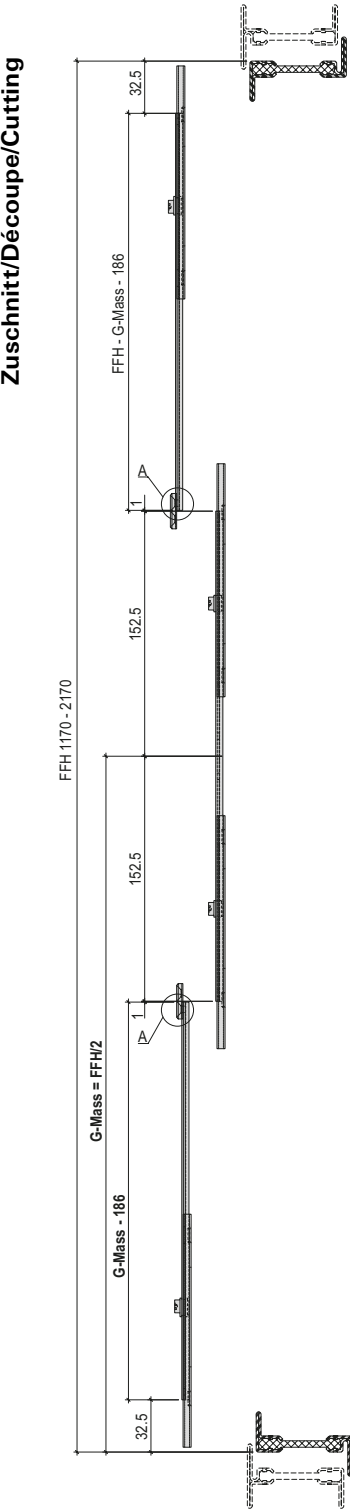
Rahmen/Cadre/Frame



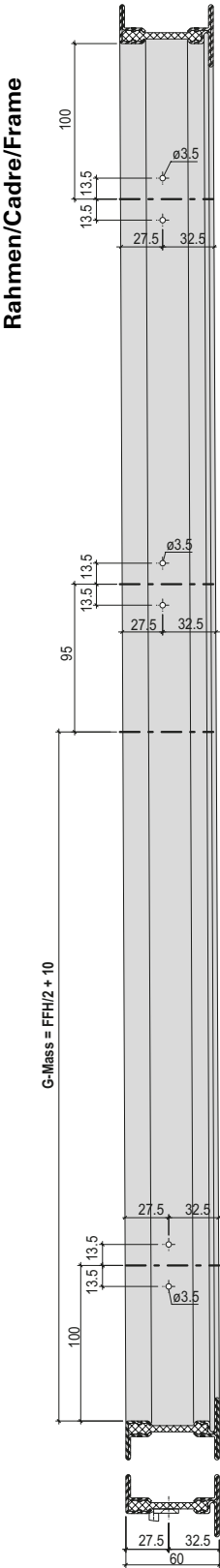
Flügel/Vantail/Sash



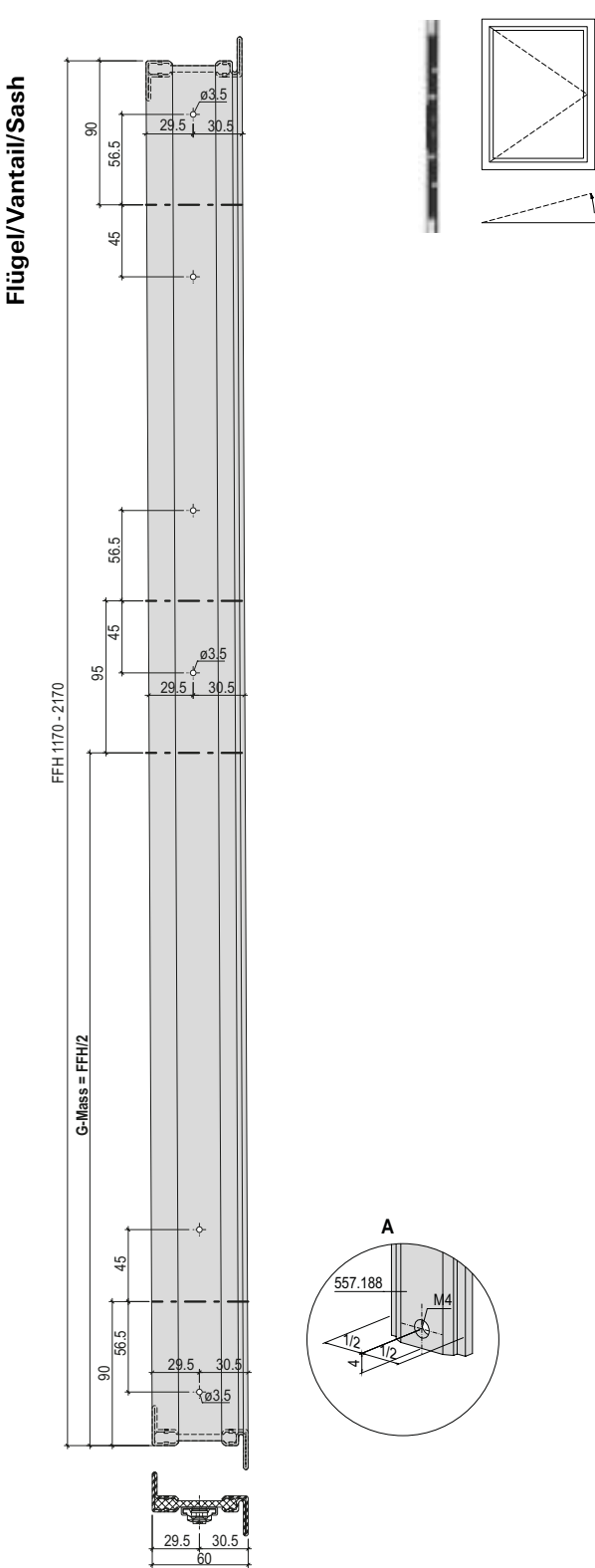
Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1170-2170



Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 1170-2170



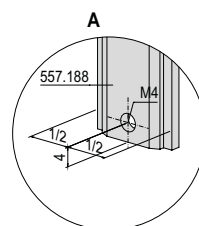
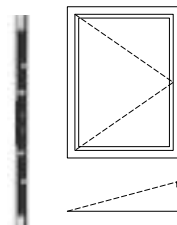
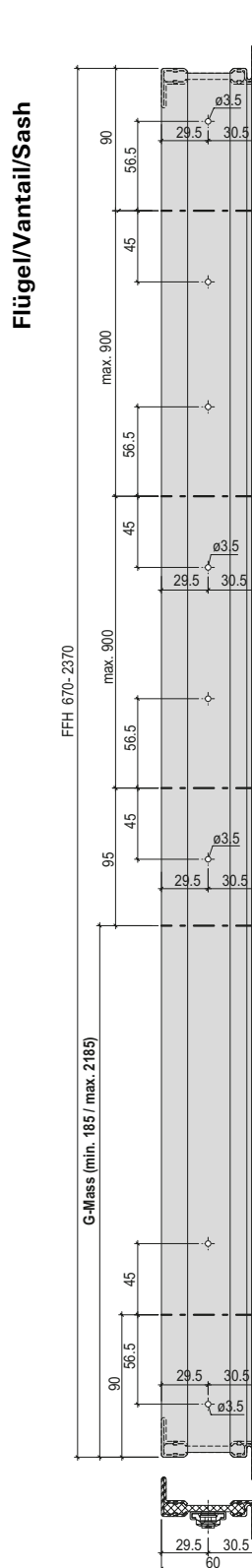
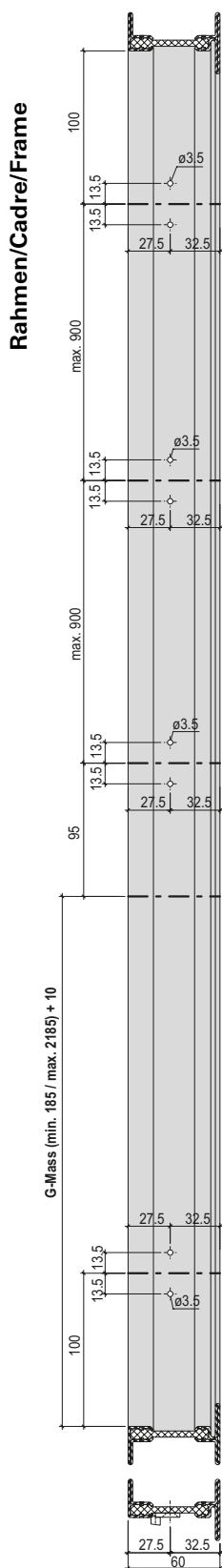
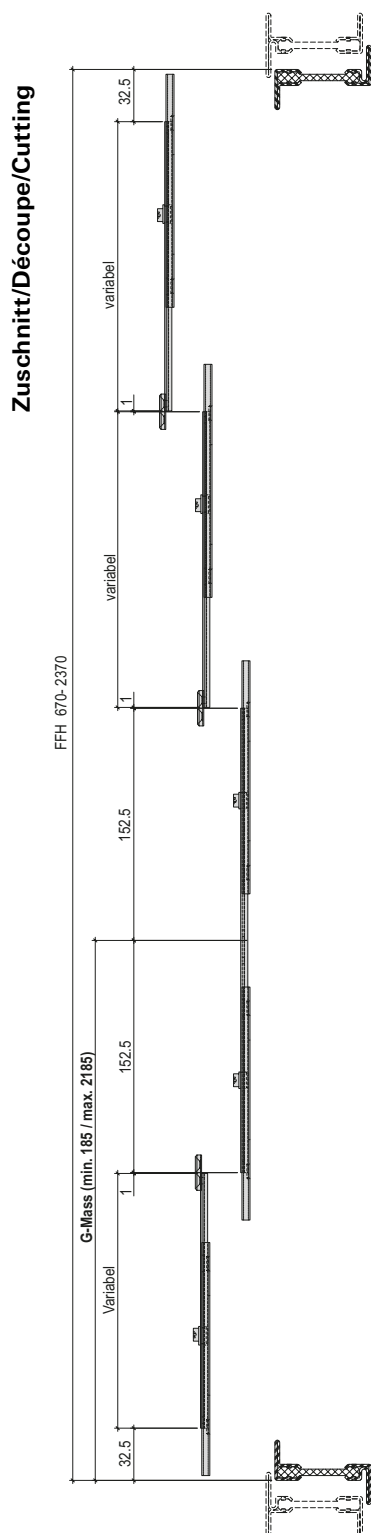
Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1170-2170



**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 670-2370**

Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 670-2370

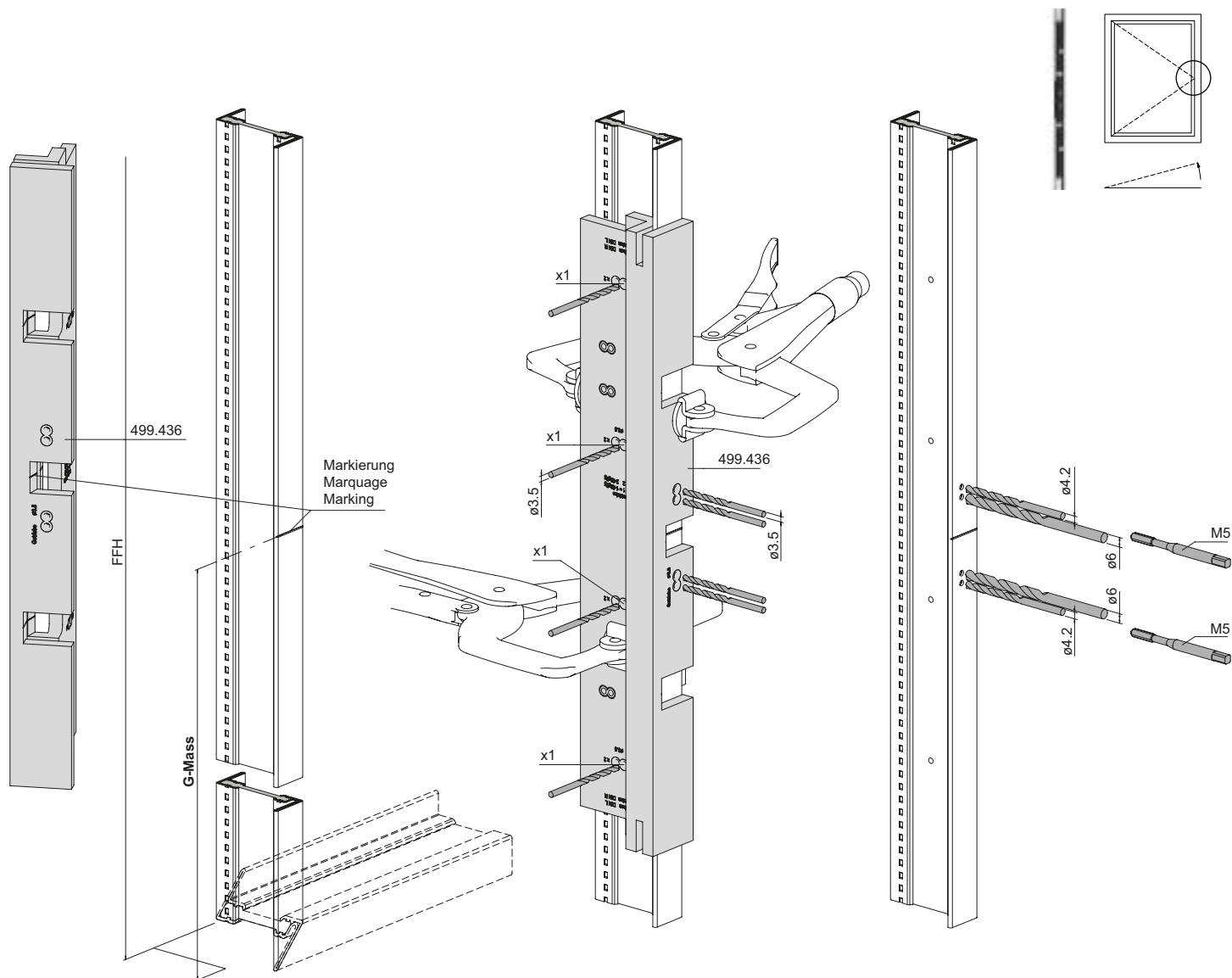
**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 670-2370**



Bohrlehre 499.436 für
Getriebe 557.187 und
Fenstergriff 557.185
Flügel

Gabarit de perçage 499.436 pour
crémone 557.187 et poignée de
fenêtre 557.185
Vantail

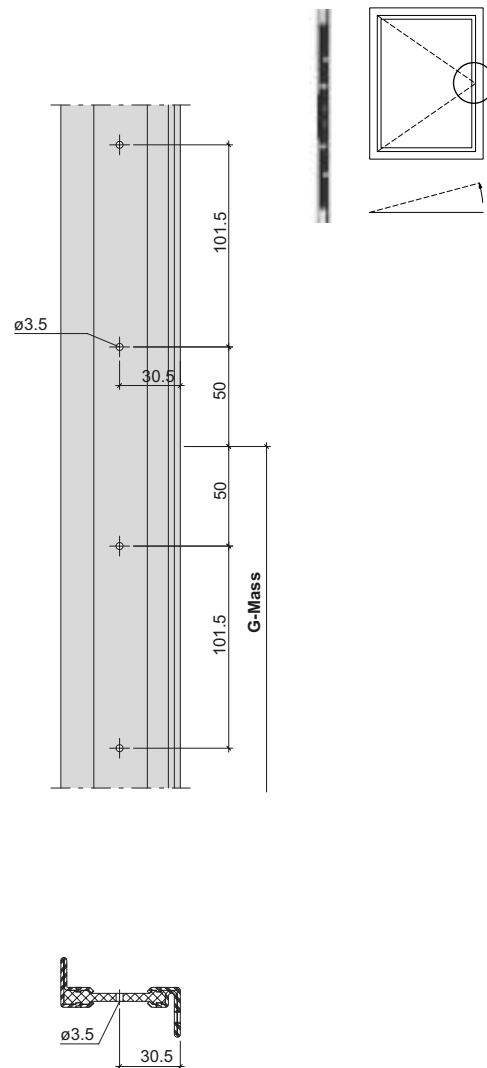
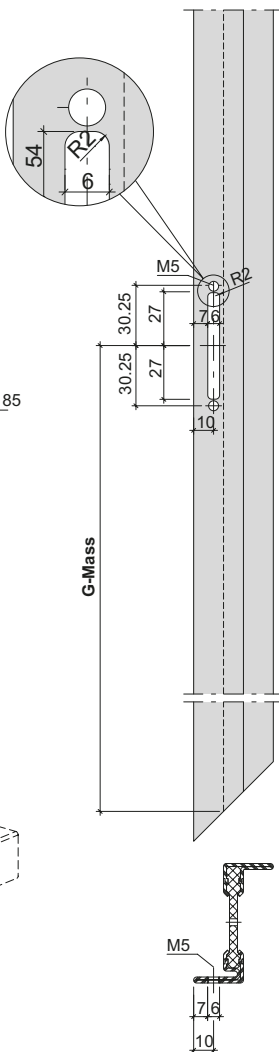
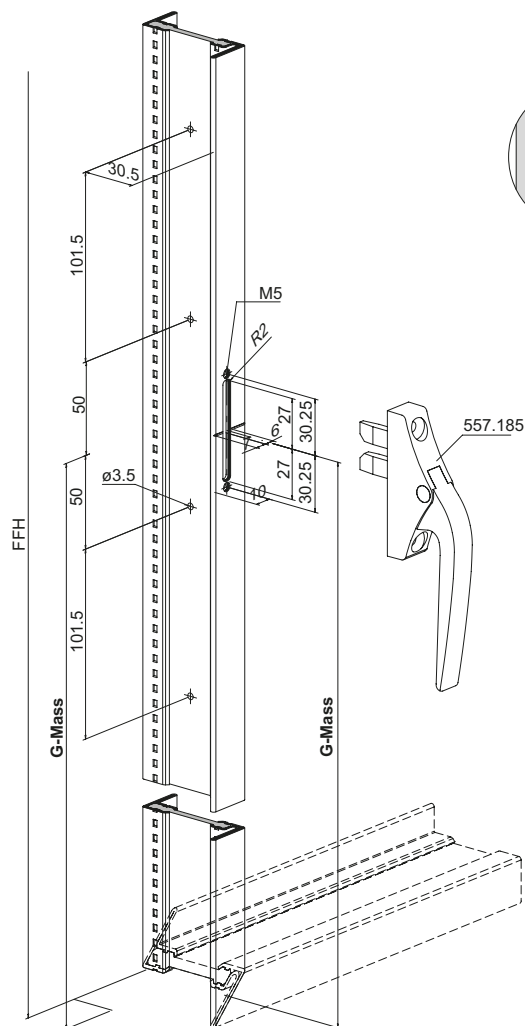
Drilling jig 499.436 for
mechanism 557.187 and
window handle 557.185
Sash



Bohrbild und Fräsung
Getriebe 557.187 und
Fenstergriff 557.185
Flügel

Schéma de perçage et fraisage
Crémone 557.187 et poignée de
fenêtre 557.185
Vantail

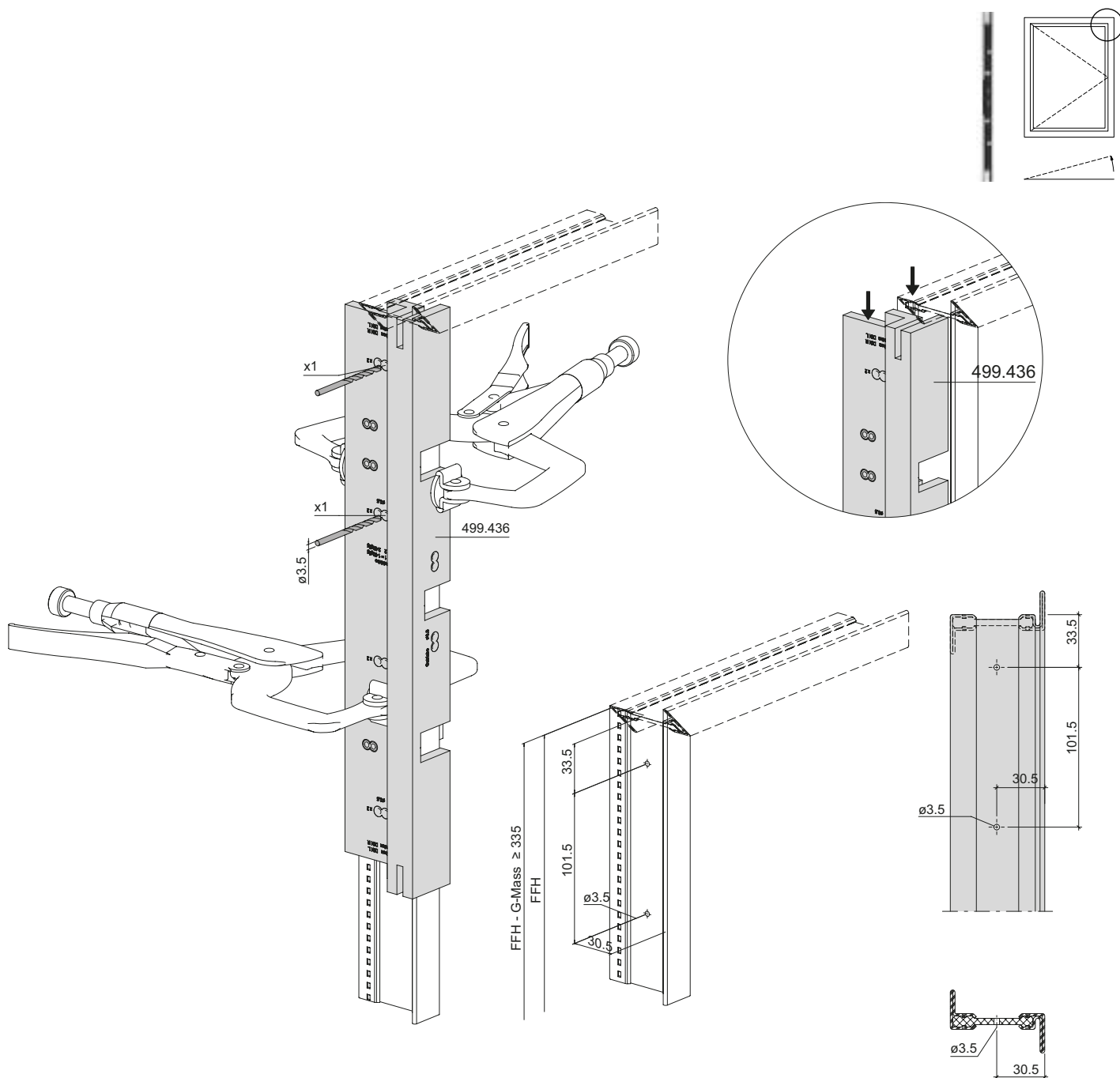
Drilling pattern and milling
Mechanisme 557.187 and
window handle 557.185
Sash



**Bohrlehre 499.436 für
 Getriebeverlängerung 557.188
 Flügel oben**

**Gabarit de perçage 499.436 pour
 prolongement de la crémonne
 557.188 Vantail en haut**

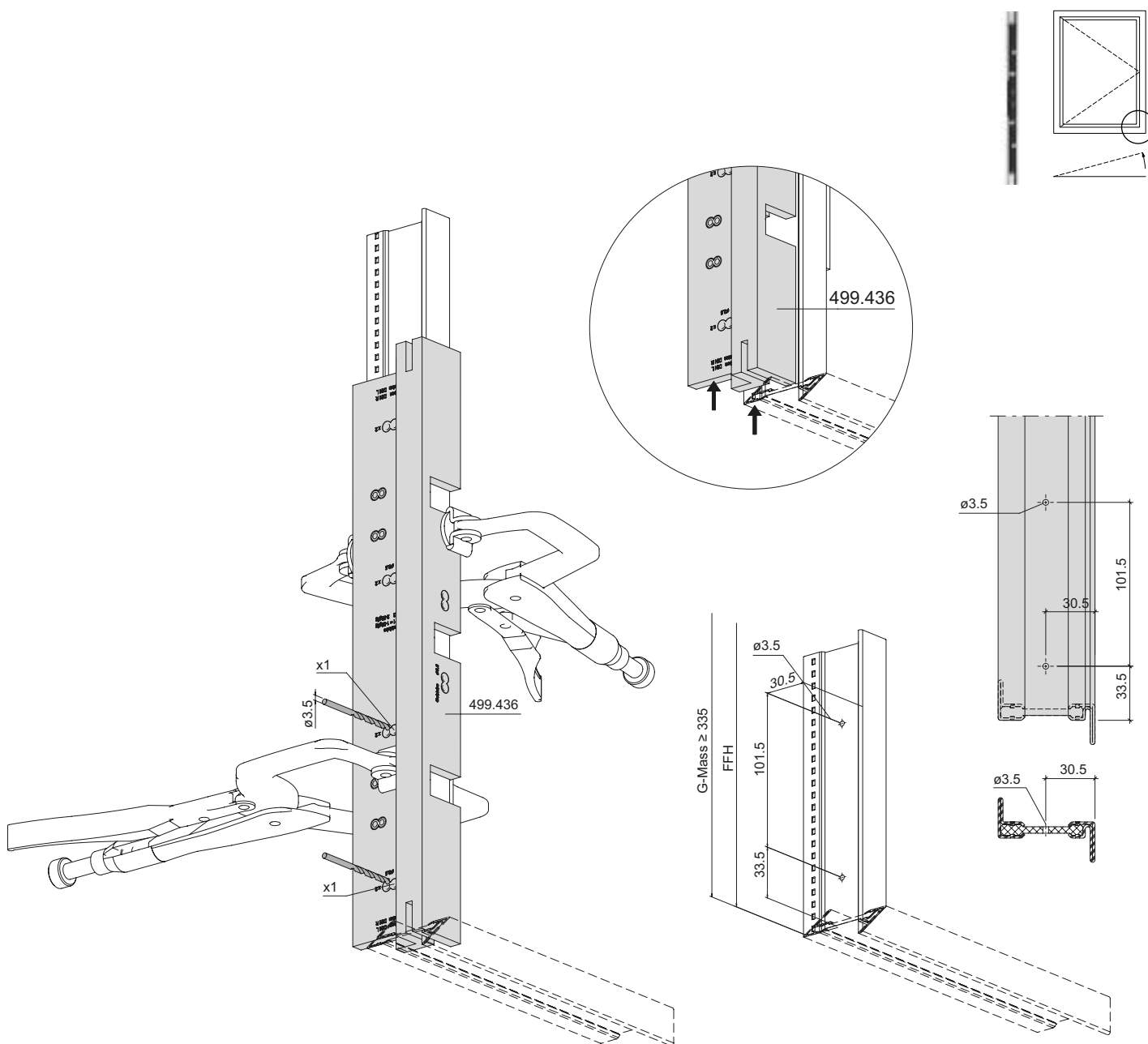
**Drilling jig 499.436 for
 gearbox extension 557.188
 Sash top**



Bohrlehre 499.436 für
Getriebeverlängerung 557.188
Flügel unten

Gabarit de perçage 499.436 pour
prolongement de la crémonne
557.188 Vantail en bas

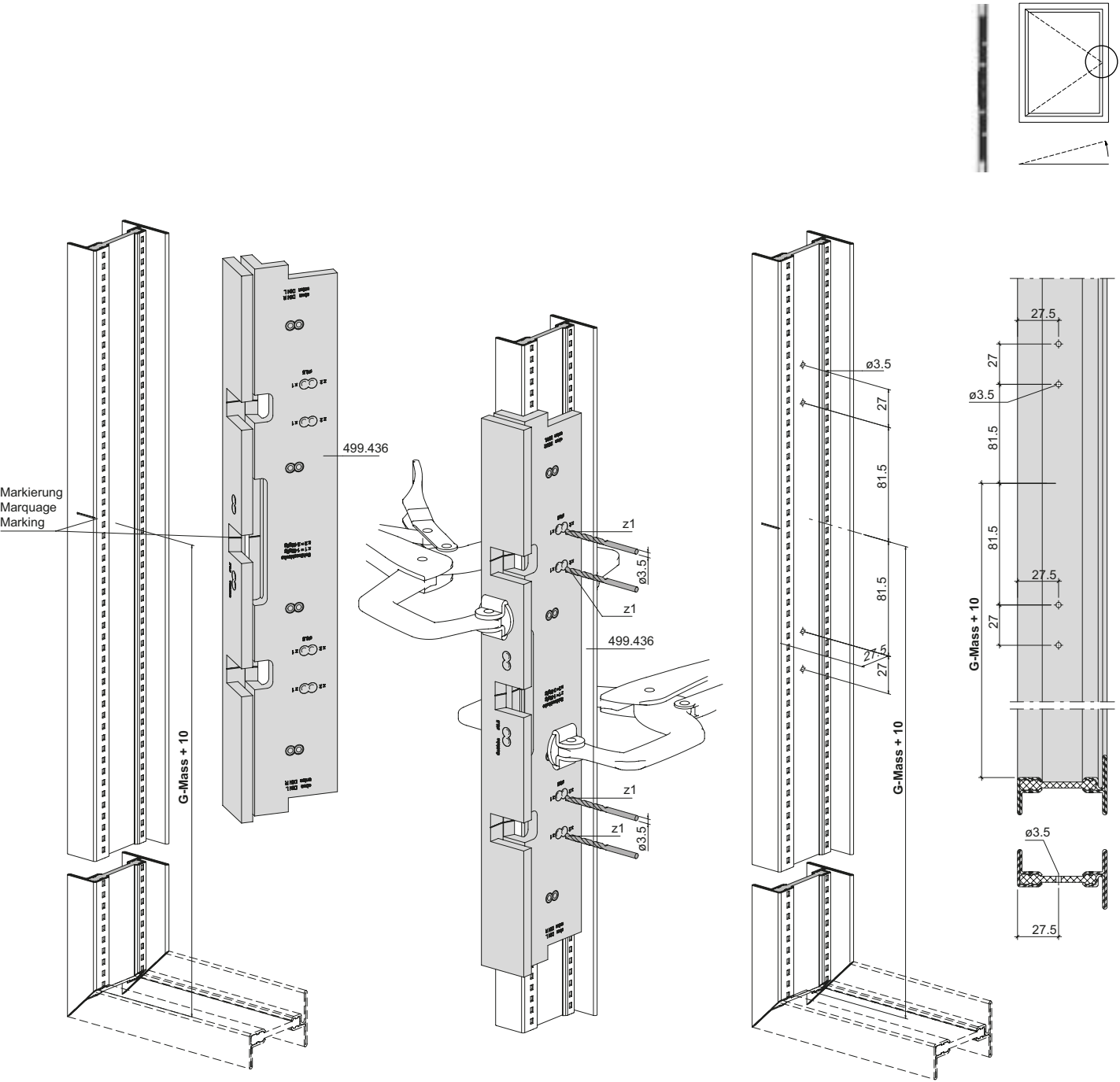
Drilling jig 499.436 for
gearbox extension 557.188
Sash bottom



Bohrlehre 499.436 für
Schliessblech 557.189 beim
Getriebe 557.187
Rahmen

Gabarit de perçage 499.436
pour gâche 557.189 pour
crémone 557.187
Cadre

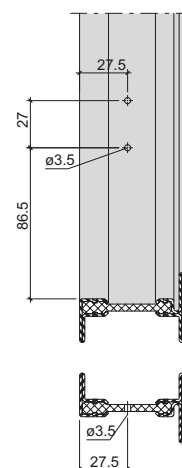
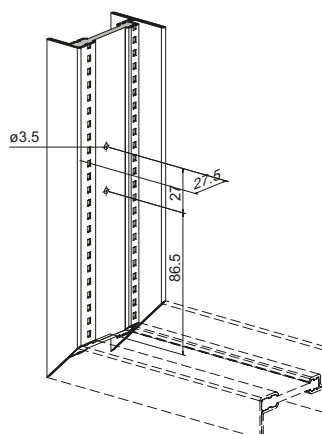
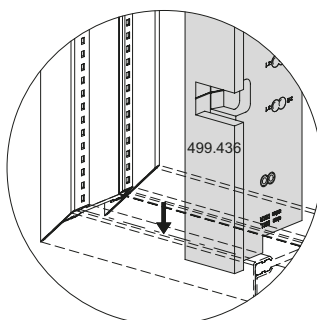
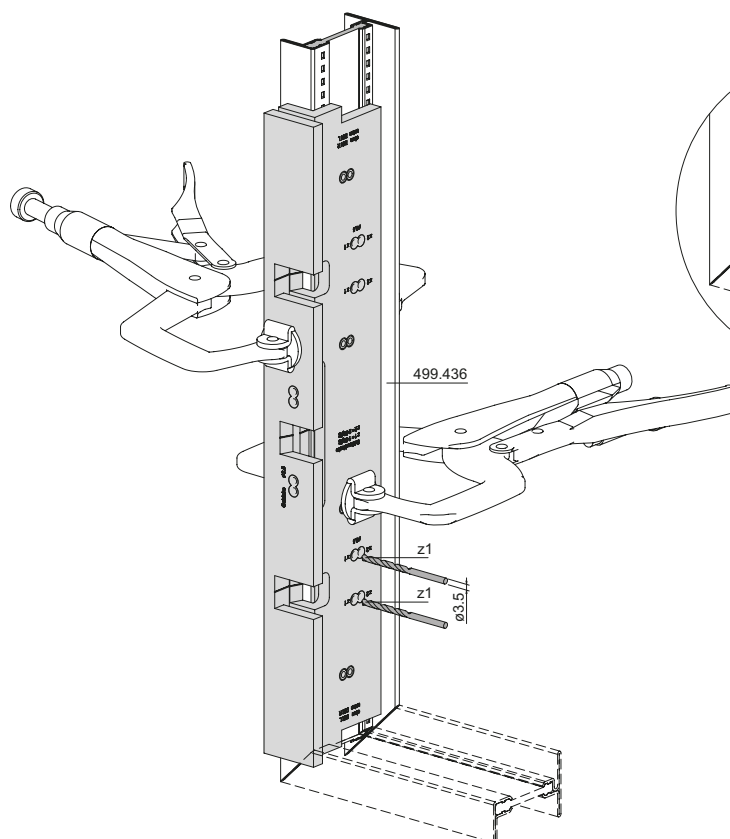
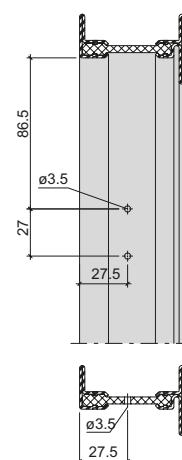
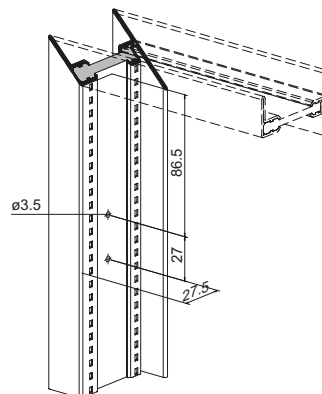
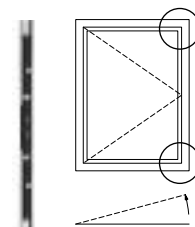
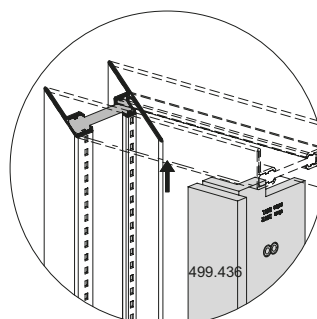
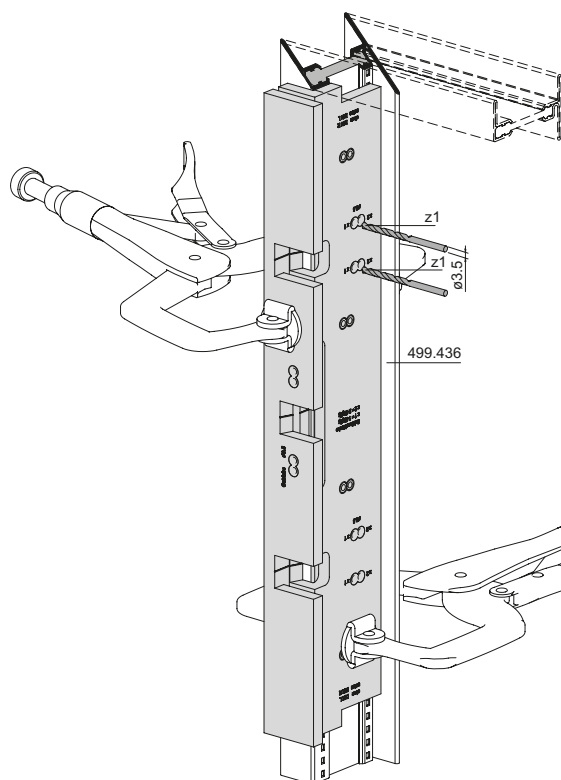
Drilling jig 499.436 for
striking plate 557.189
for mechanism 557.187
Frame



Bohrlehre 499.436 für
Schliessbleche 557.189
Rahmen oben und unten

Gabarit de perçage 499.436 pour
gâches 557.189
Cadre en haut et en bas

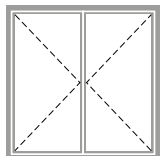
Drilling jig 499.436 for
striking plates 557.189
Frame top and bottom



Beschlageinbau
Montage des ferrures
Installation of fittings

Janisol Arte
Janisol Arte
Janisol Arte

2.0



**Drehfenster
nach innen öffnend**

**Fenêtre à la française
ouvrant vers l'intérieur**

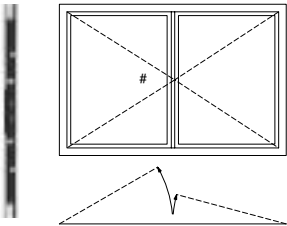
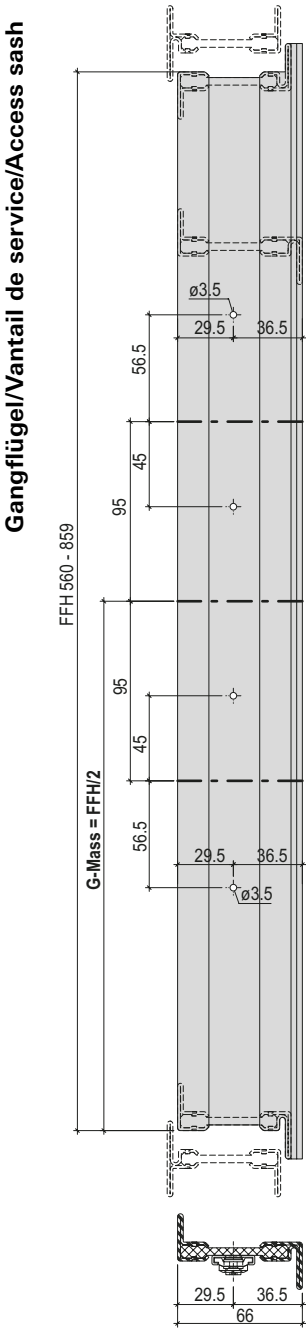
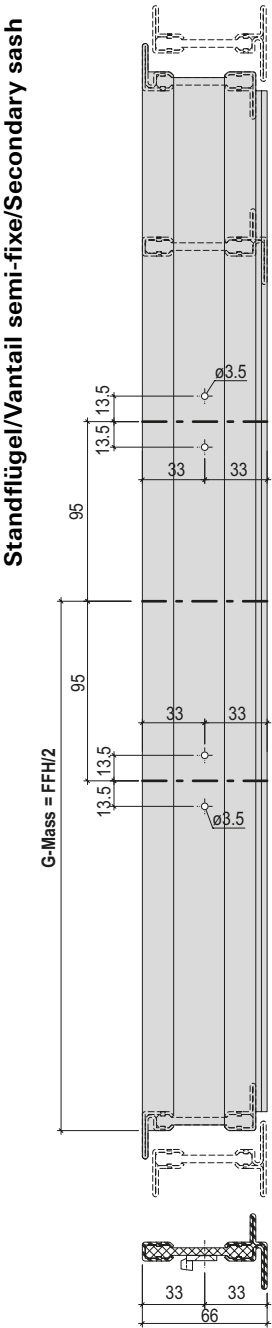
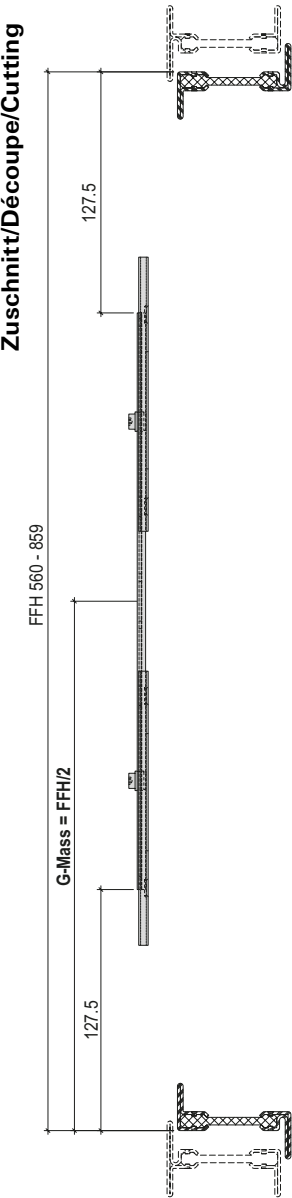
**Side-hung window
inward opening**

Zuschnitt Getriebeverlängerung Bohrbild Getriebeverlängerung und Schliessbleche	Découpe prolongement de la crémonne Schéma de perçage prolongement de la crémonne et gâches	Cutting gearbox extension Drilling pattern gearbox extension and striking plates	204
Bohrlehre 499.436 für Getriebe 557.187 und Fenstergriff 557.185	Gabarit de perçage 499.436 pour crémonne 557.187 et poignée de fenêtre 557.185	Drilling jig 499.436 for mechanism 557.187 and window handle 557.185	208
Bohrlehre 499.436 für Getriebeverlängerung 557.188	Gabarit de perçage 499.436 pour prolongement de la crémonne 557.188	Drilling jig 499.436 for gearbox extension 557.188	210
Bohrlehre 499.436 für Schliessbleche 557.189	Gabarit de perçage 499.436 pour gâches 557.189	Drilling jig 499.436 for striking plates 557.189	212

Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 560-859

Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 560-859

Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 560-859

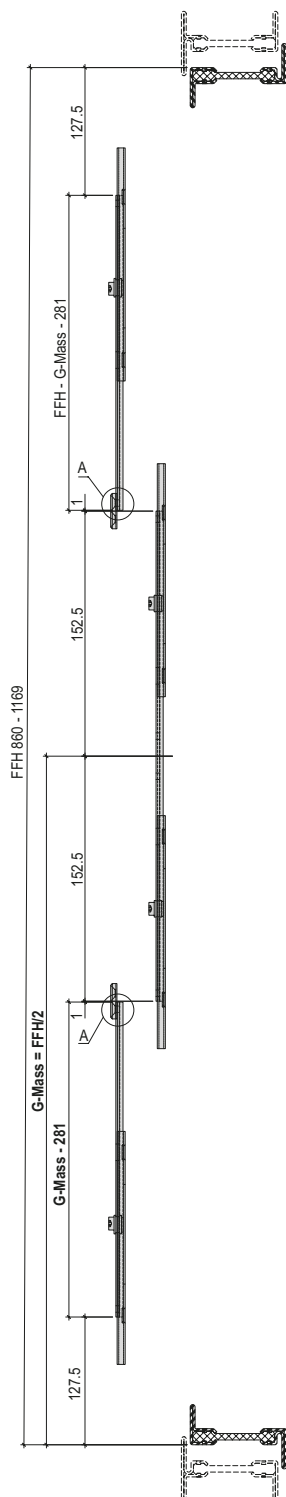


**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 860-1169**

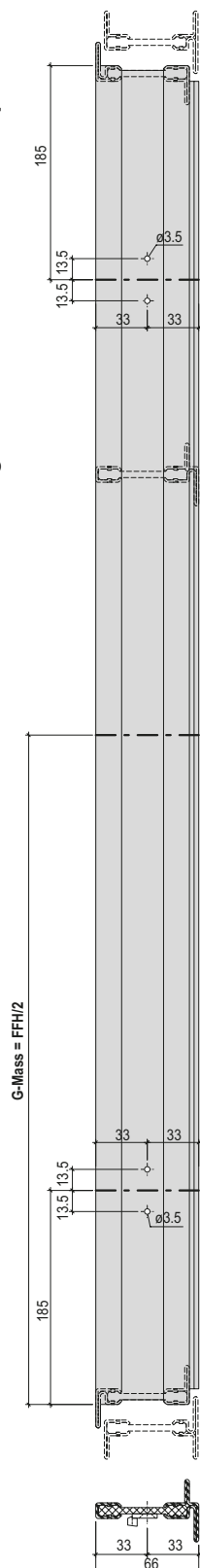
Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 860-1169

**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 860-1169**

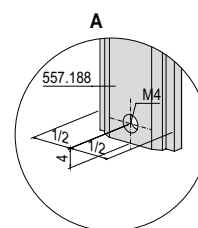
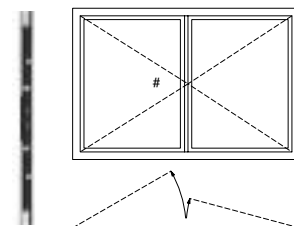
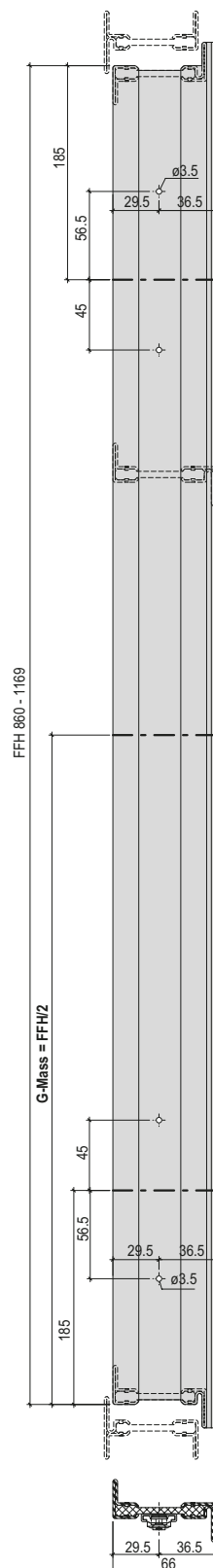
Zuschnitt/Découpe/Cutting



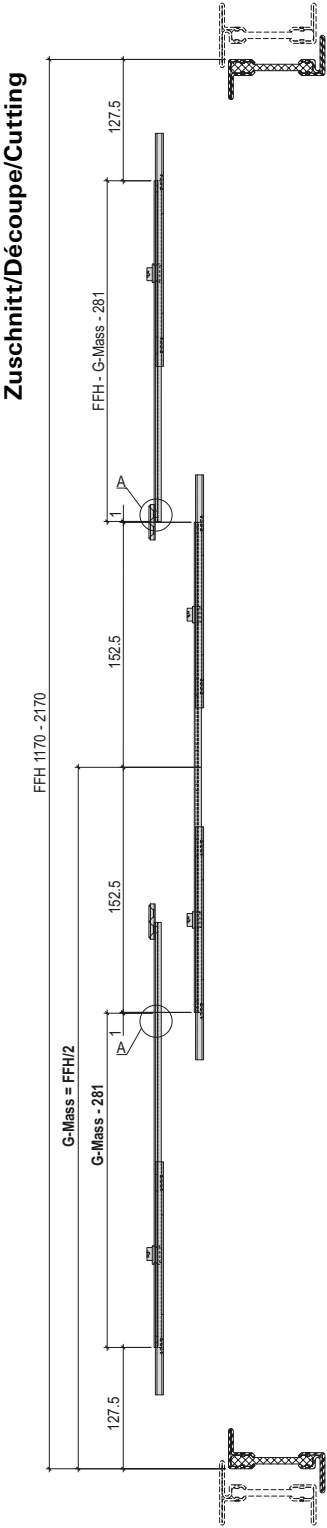
Standflügel/Vantail semi-fixe/Secondary sash



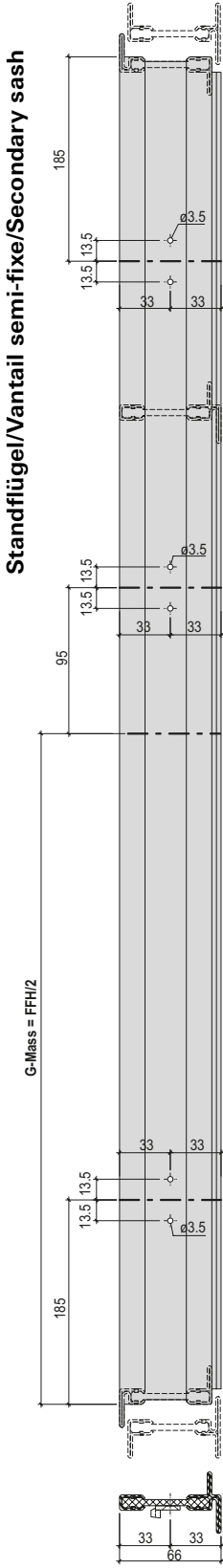
Gangflügel/Vantail de service/Access sash



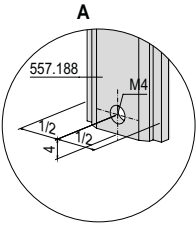
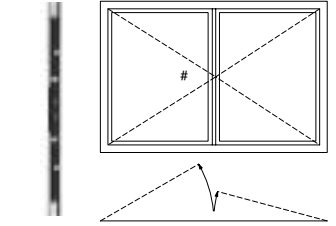
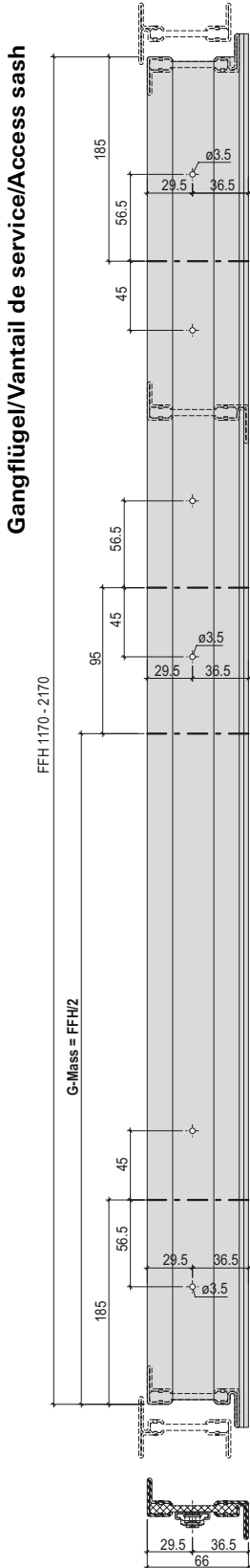
Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1170-2170



Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 1170-2170



Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1170-2170

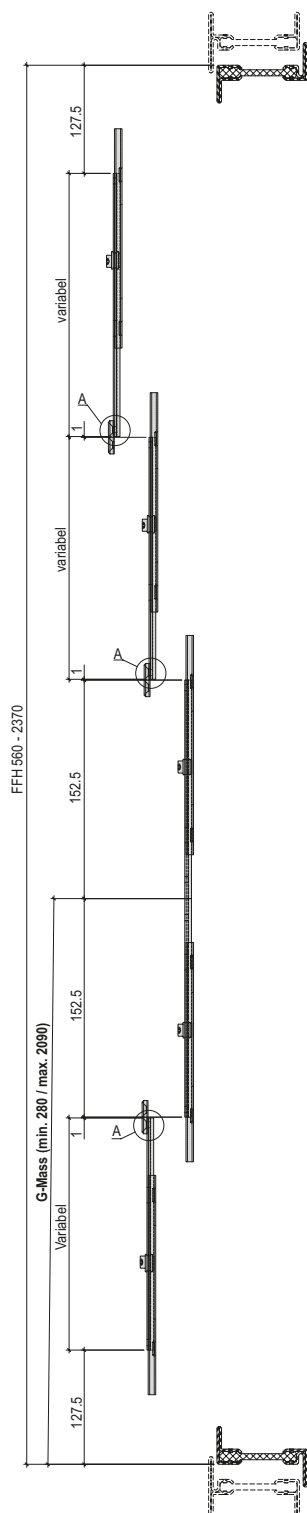


**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 560-2370**

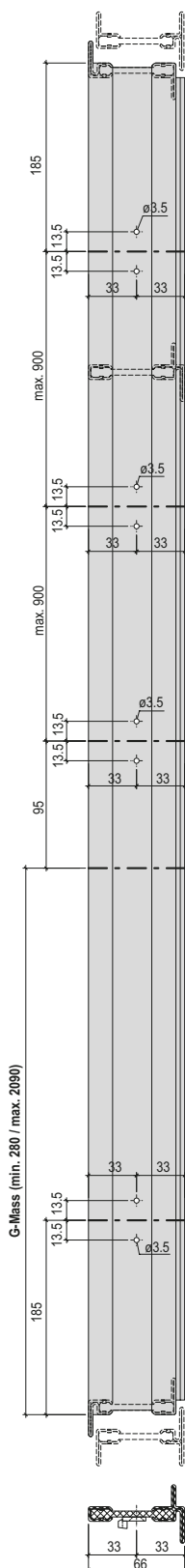
Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 560-2370

**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 560-2370**

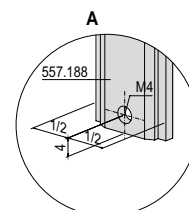
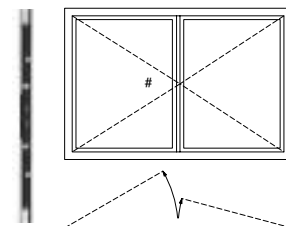
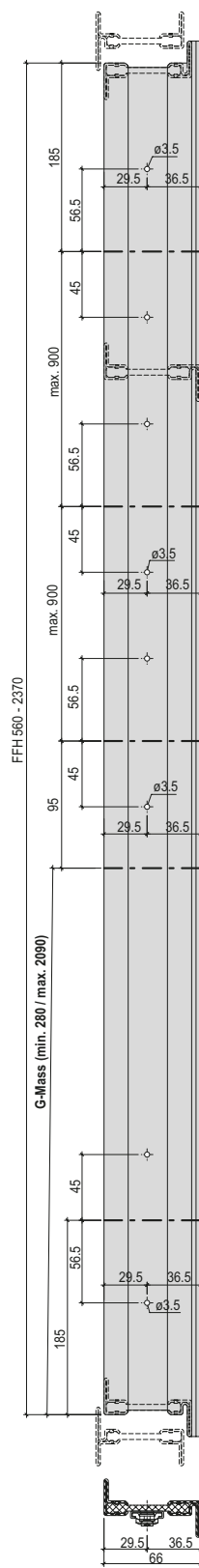
Zuschnitt/Découpe/Cutting



Standflügel/Vantail semi-fixe/Secondary sash



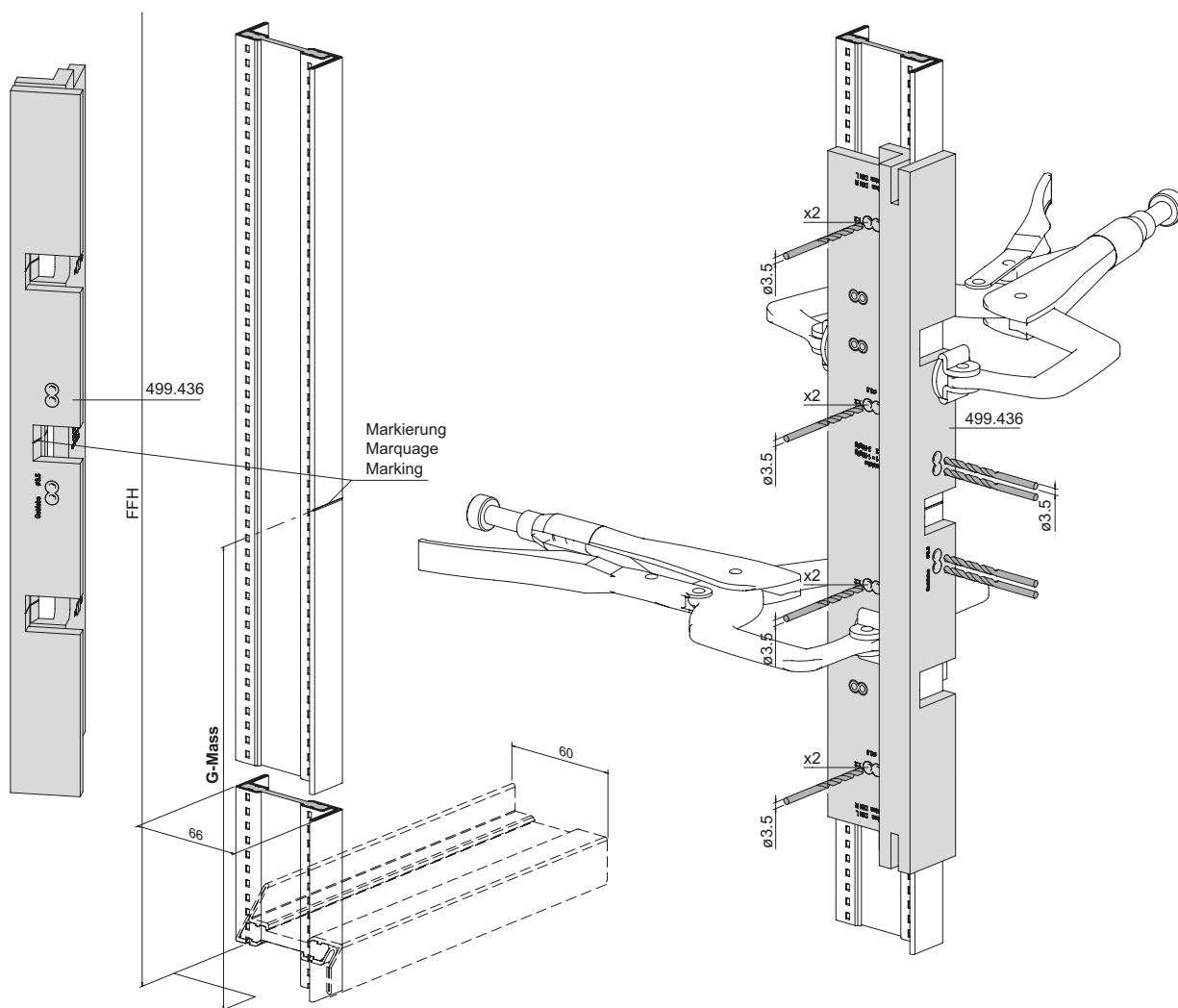
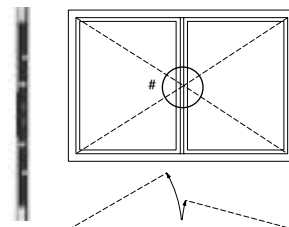
Gangflügel/Vantail de service/Access sash



**Bohrlehre 499.436 für
 Getriebe 557.187
 und Fenstergriff 557.185
 Gangflügel**

**Gabarit de perçage 499.436
 pour crémonne 557.187
 et poignée de fenêtre 557.185
 Vantail de service**

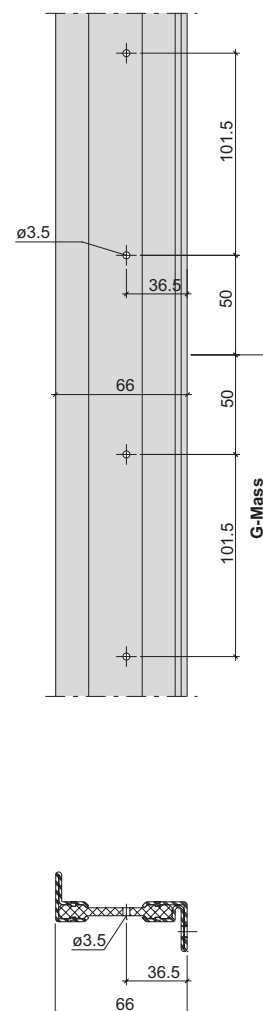
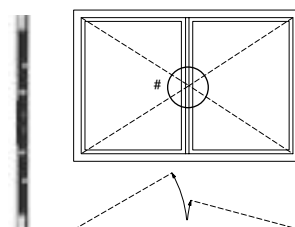
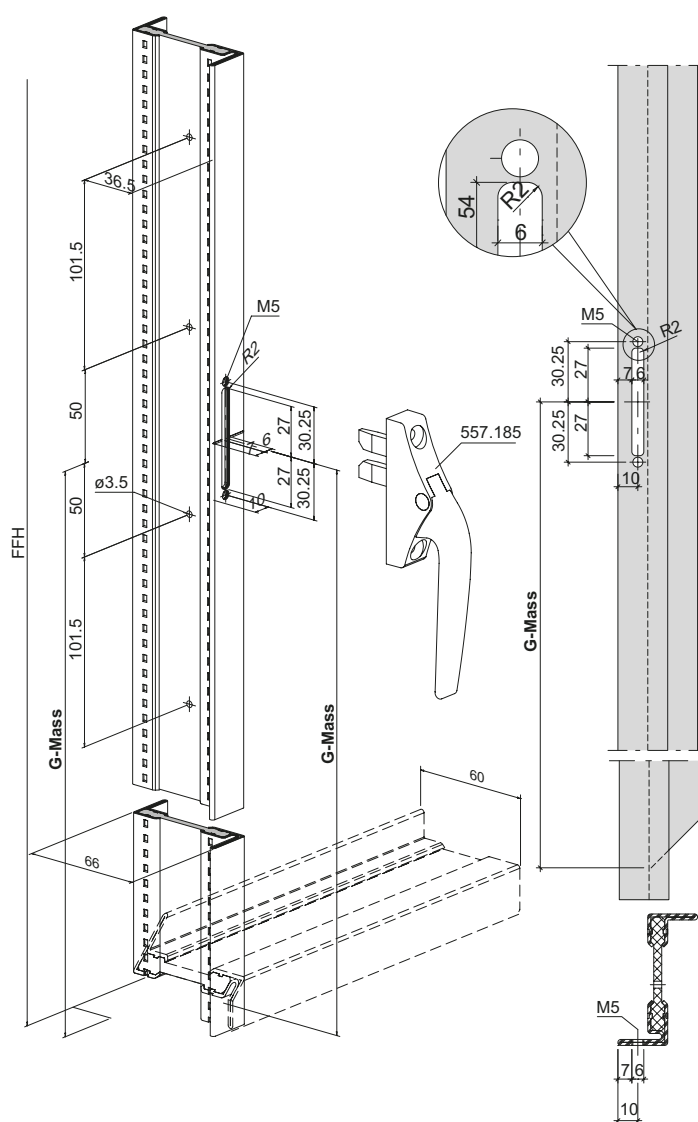
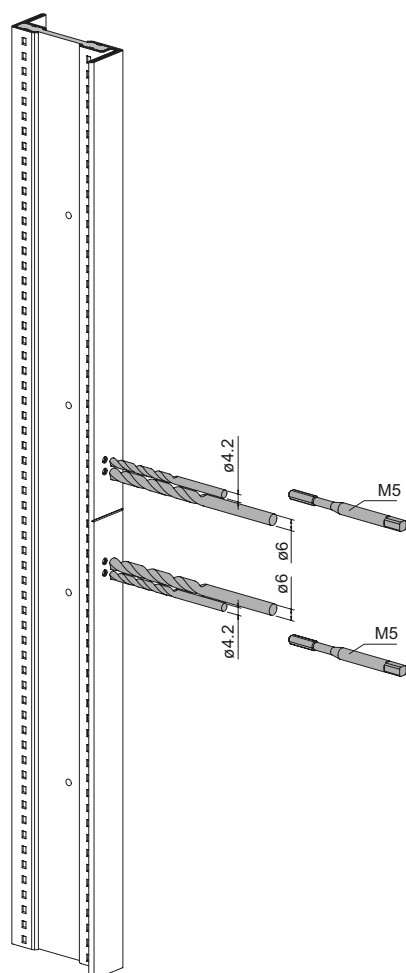
**Drilling jig 499.436 for
 mechanism 557.187
 and window handle 557.185
 Access sash**



**Bohrbild und Fräsung
für Getriebe 557.187
und Fenstergriff 557.185
Gangflügel**

**Schéma de perçage et fraisage
pour crémonne 557.187
et poignée de fenêtre 557.185
Vantail de service**

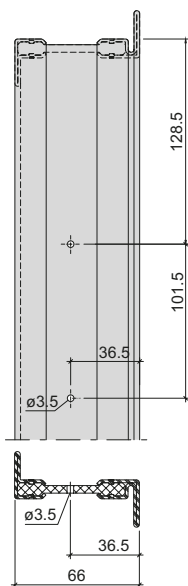
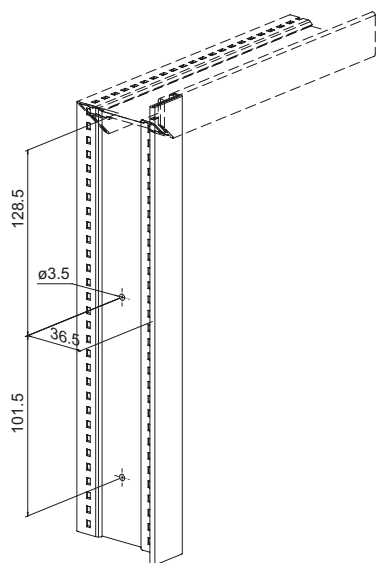
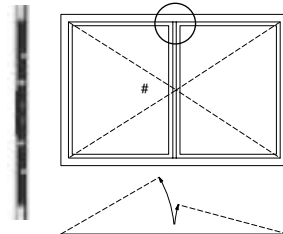
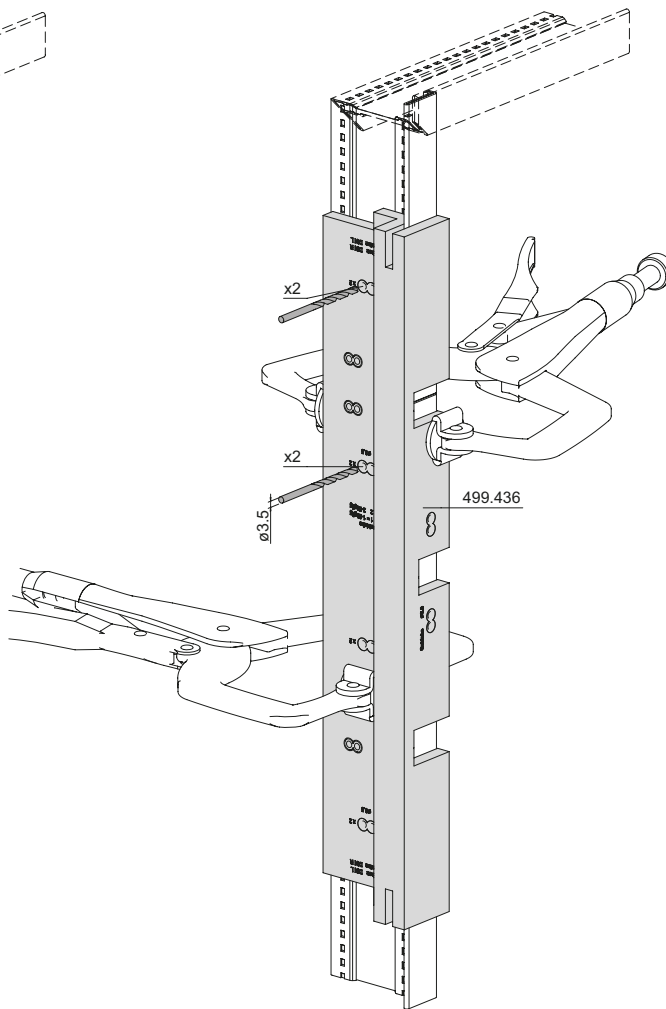
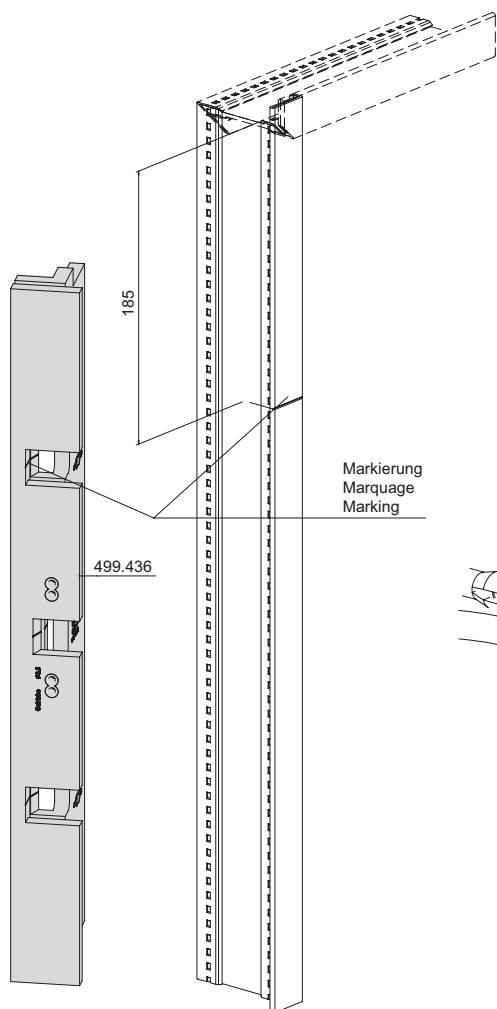
**Drilling pattern and milling
for mechanism 557.187
and window handle 557.185
Access sash**



**Bohrlehre 499.436 für
 Getriebeverlängerung 557.188
 Gangflügel oben**

**Gabarit de perçage 499.436 pour
 prolongement de la crémonne
 557.188 Vantail de service en haut**

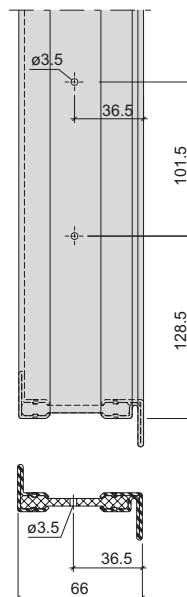
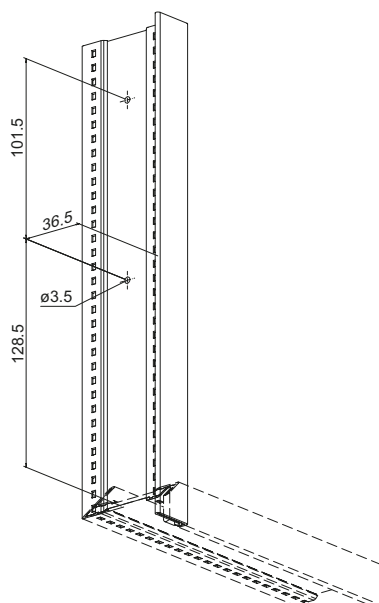
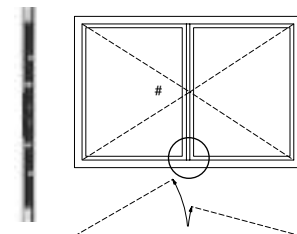
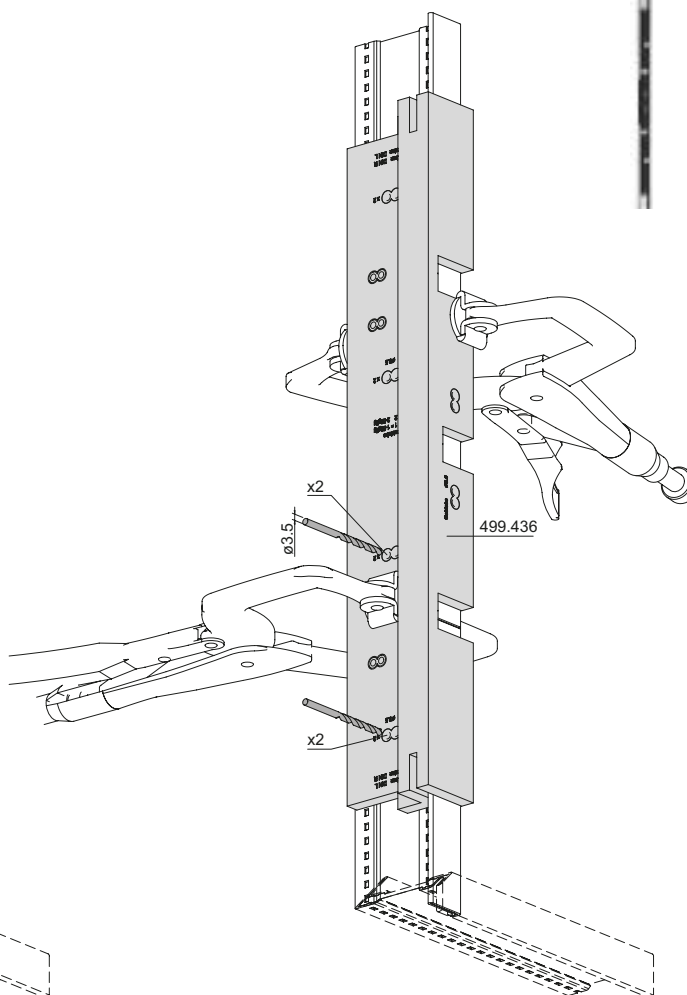
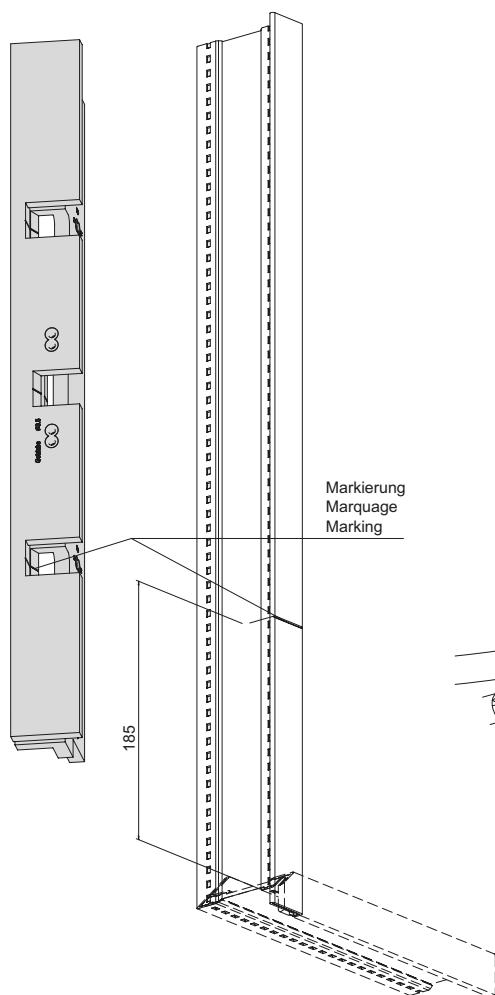
**Drilling jig 499.436 for
 gearbox extension 557.188
 Access sash top**



**Bohrlehre 499.436 für
 Getriebeverlängerung 557.188
 Gangflügel unten**

**Gabarit de perçage 499.436 pour
 prolongement de la crémonne
 557.188 Vantail de service en bas**

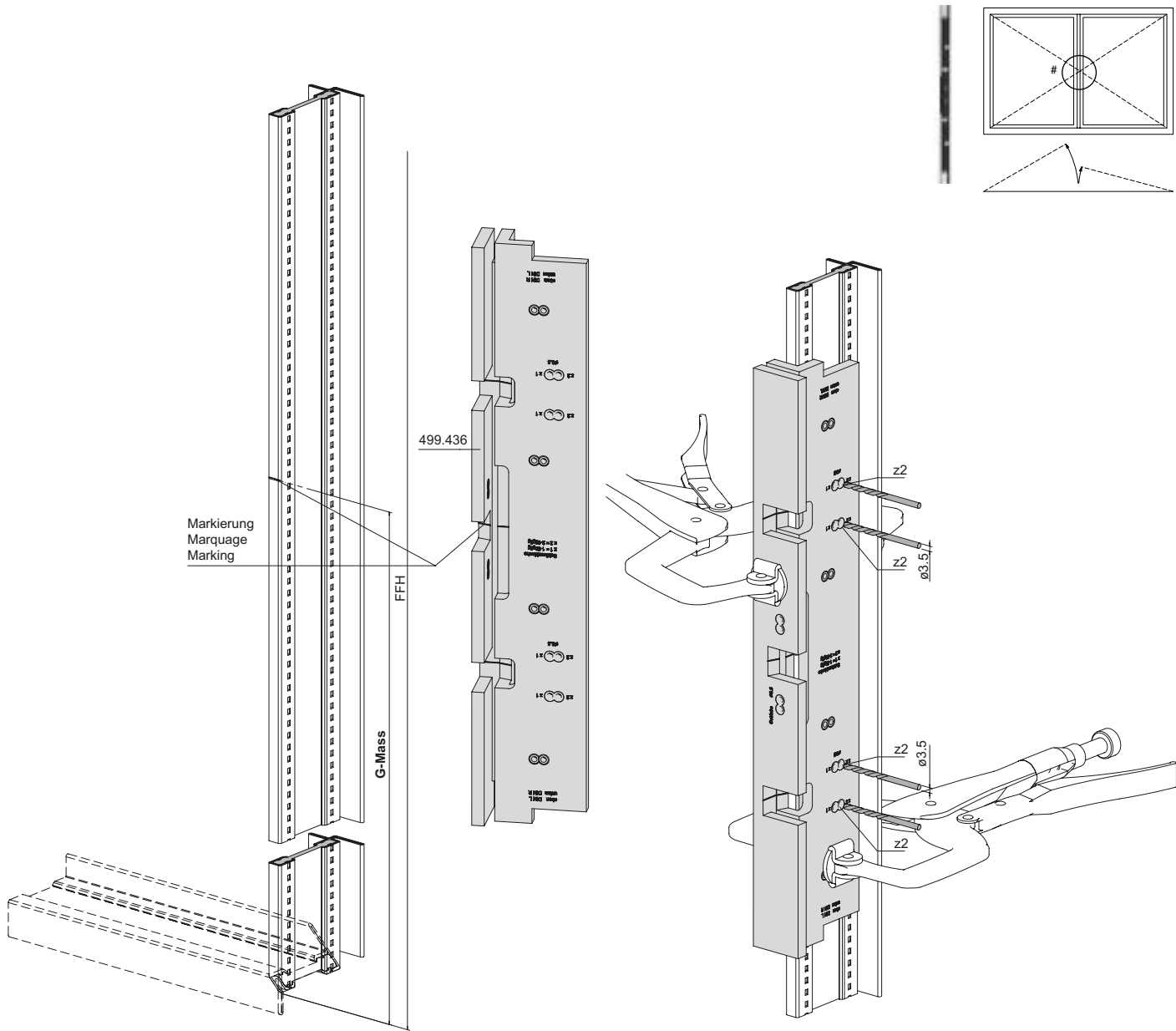
**Drilling jig 499.436 for
 gearbox extension 557.188
 Access sash bottom**



Bohrlehre 499.436 für Schliessblech
557.189 beim Getriebe
Standflügel

Gabarit de perçage 499.436 pour
gâche 557.189 pour crémonne
Vantail semi-fixe

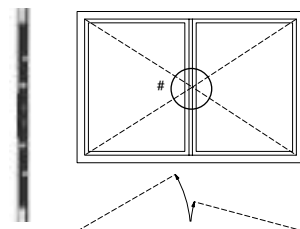
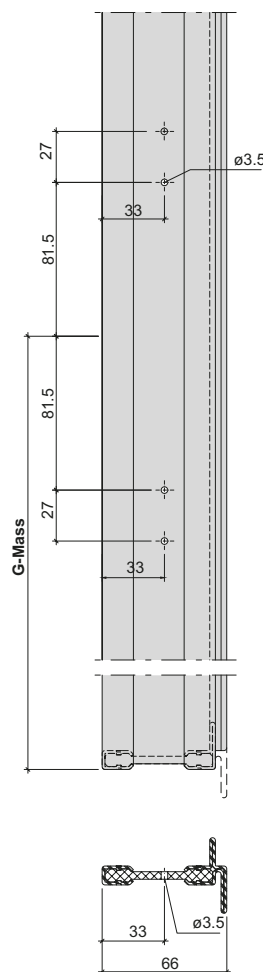
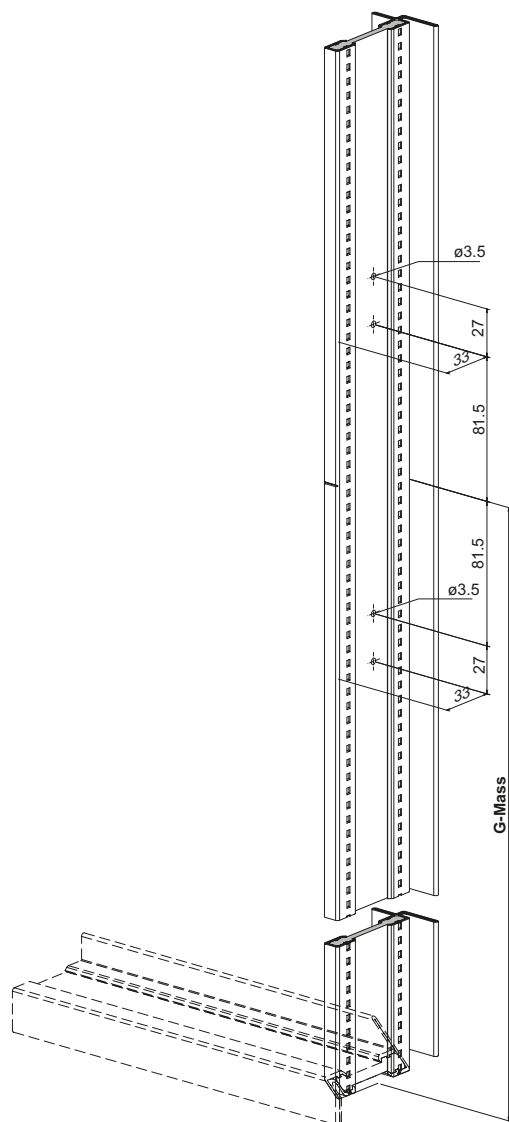
Drilling jig 499.436 for striking plate
557.189 for mechanism
Secondary sash



Bohrbild für Schliessblech 557.189
beim Getriebe
Standflügel

Schéma de perçage pour
gâche 557.189 pour crémonne
Vantail semi-fixe

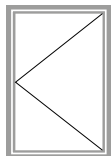
Drilling pattern for striking plate
557.189 for mechanism
Secondary sash



Beschlageinbau
Montage des ferrures
Installation of fittings

Janisol Arte
Janisol Arte
Janisol Arte

2.0



**Drehfenster
nach aussen öffnend**

**Fenêtre à la française
ouvrant vers l'extérieur**

**Side-hung window
outward opening**

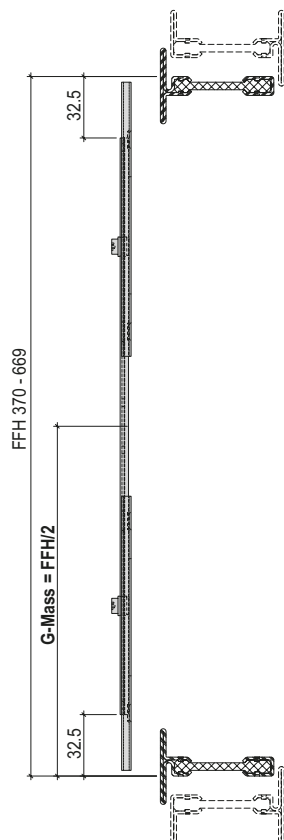
Zuschnitt Getriebeverlängerung Bohrbild Getriebeverlängerung und Schliessbleche	Découpe prolongement de la crémonne Schéma de perçage prolongement de la crémonne et gâches	Cutting gearbox extension Drilling pattern gearbox extension and striking plates	218
Bohrlehre 499.436 für Getriebe 557.187 und Fenstergriff 557.185	Gabarit de perçage 499.436 pour crémonne 557.187 et poignée de fenêtre 557.185	Drilling jig 499.436 for mechanism 557.187 and window handle 557.185	222
Bohrlehre 499.436 für Getriebeverlängerung 557.188	Gabarit de perçage 499.436 pour prolongement de la crémonne 557.188	Drilling jig 499.436 for gearbox extension 557.188	224
Bohrlehre 499.436 für Schliessbleche 557.189	Gabarit de perçage 499.436 pour gâches 557.189	Drilling jig 499.436 for striking plates 557.189	226

Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 370-669

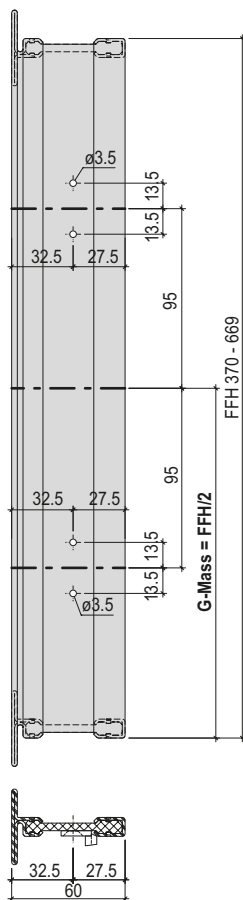
Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 370-669

Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 370-669

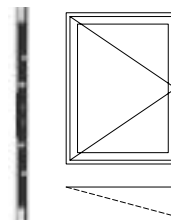
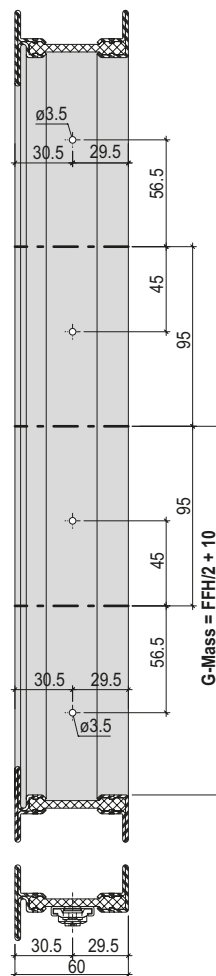
Zuschnitt/Découpe/Cutting



Rahmen/Cadre/Frame



Flügel/Vantail/Sash

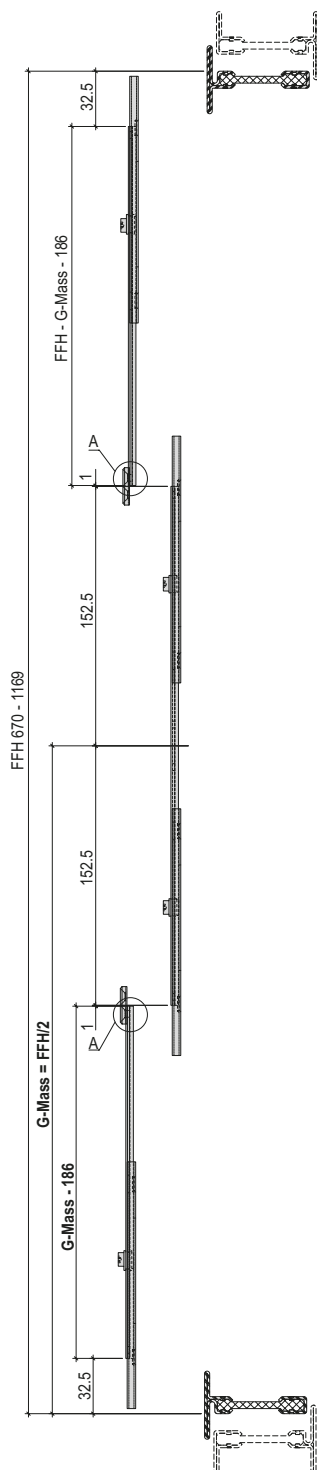


Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 670-1169

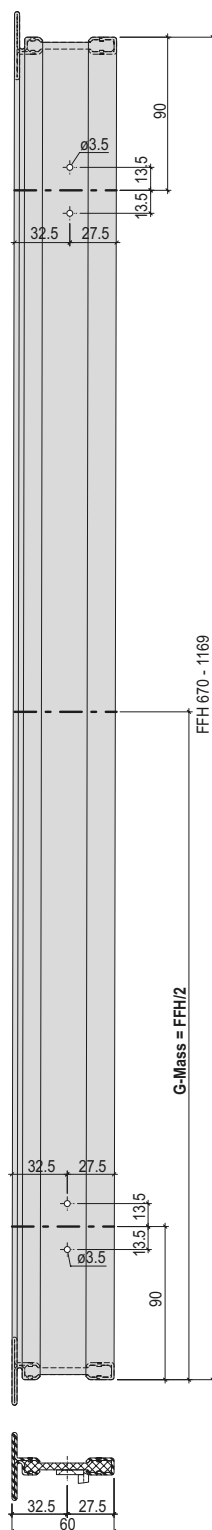
Découpe prolongement de la crémonne
Schéma de perçage prolongement
de la crémonne et gâches
FFH 670-1169

Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 670-1169

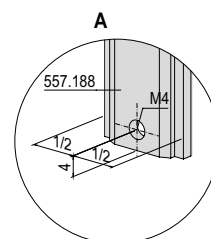
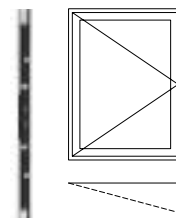
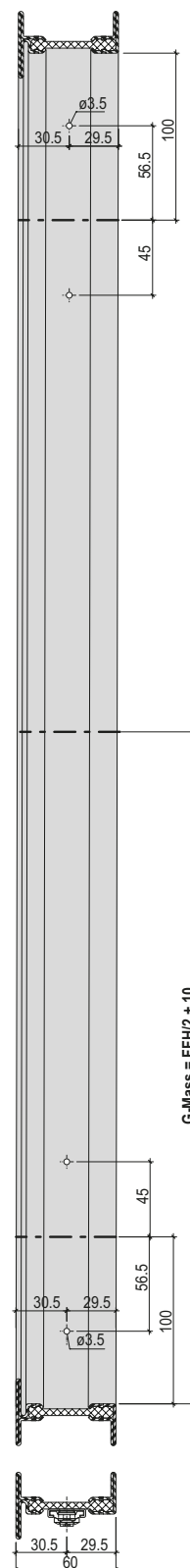
Zuschnitt/Découpe/Cutting



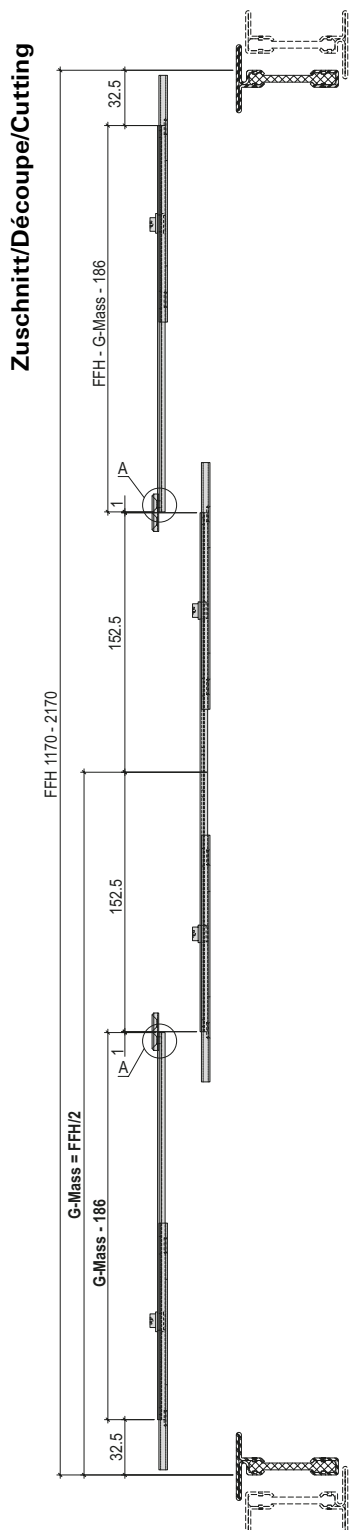
Rahmen/Cadre/Frame



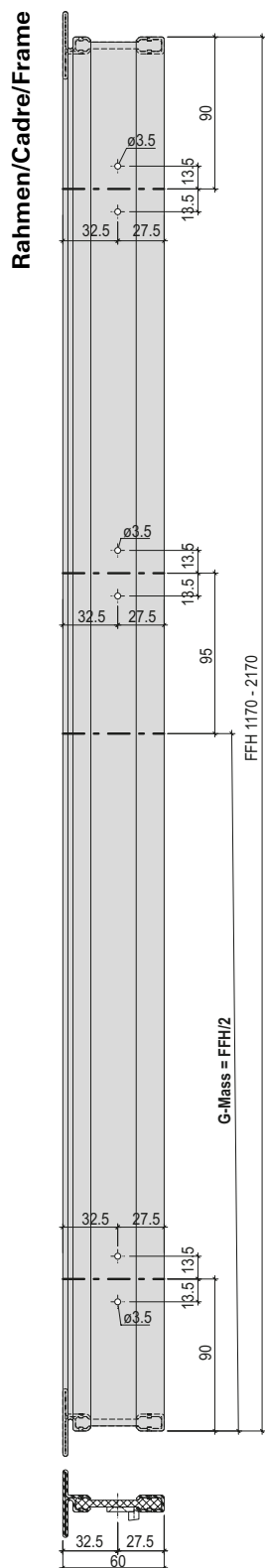
Flügel/Vantail/Sash



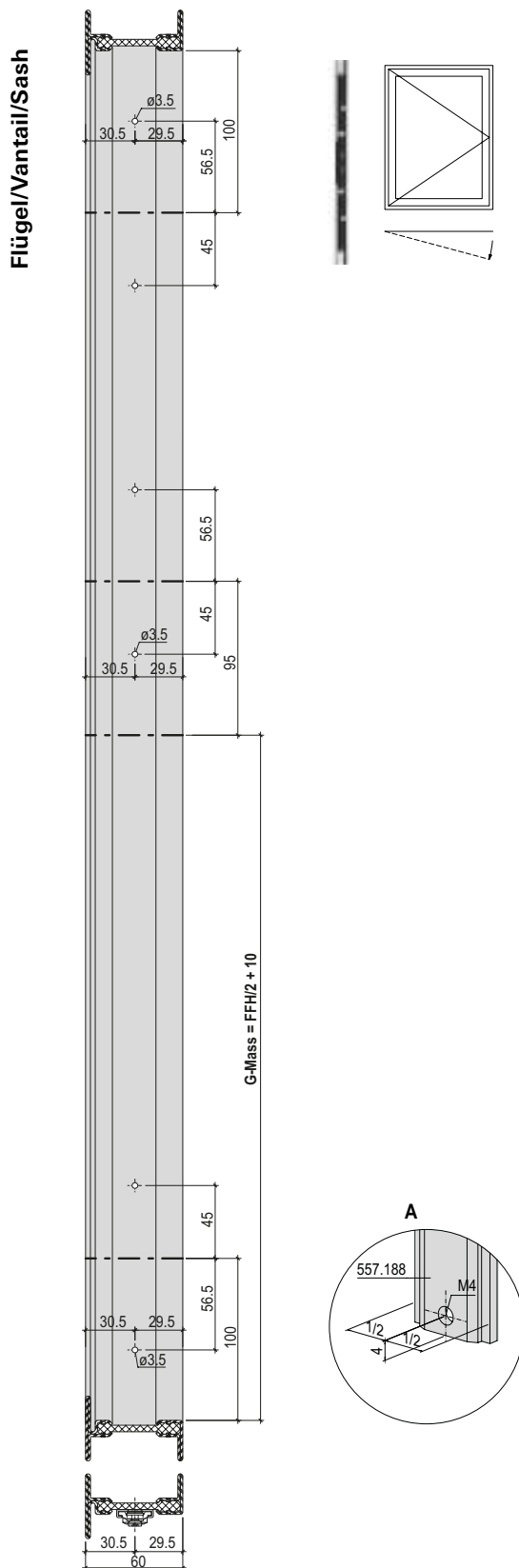
**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 1170-2170**



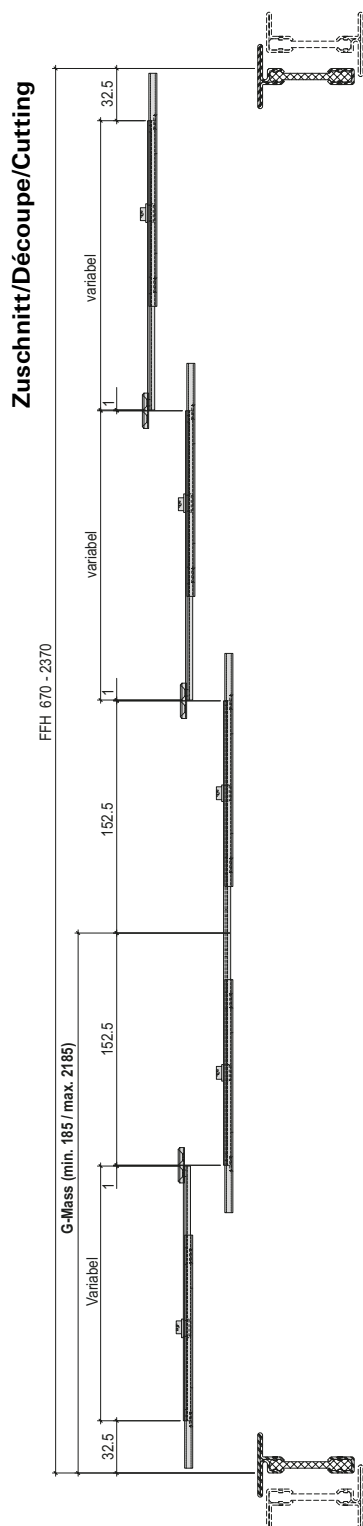
**Découpe prolongement de la crème
Schéma de perçage prolongement
de la crème et gâches
FFH 1170-2170**



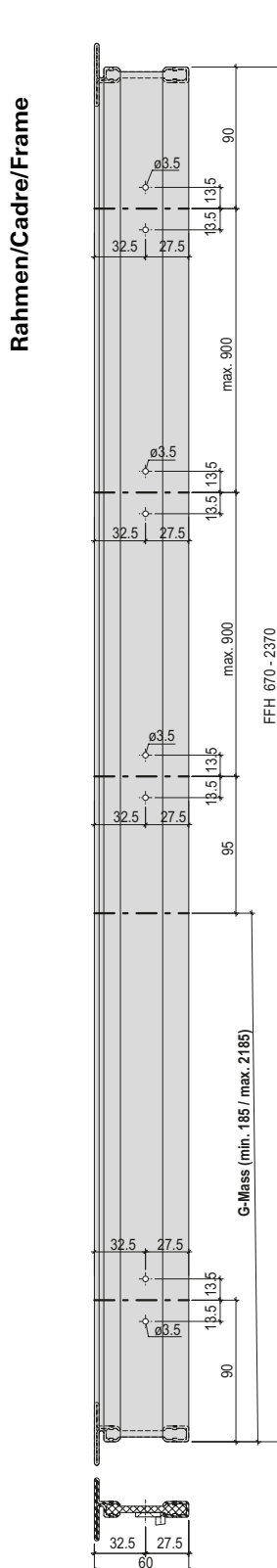
**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1170-2170**



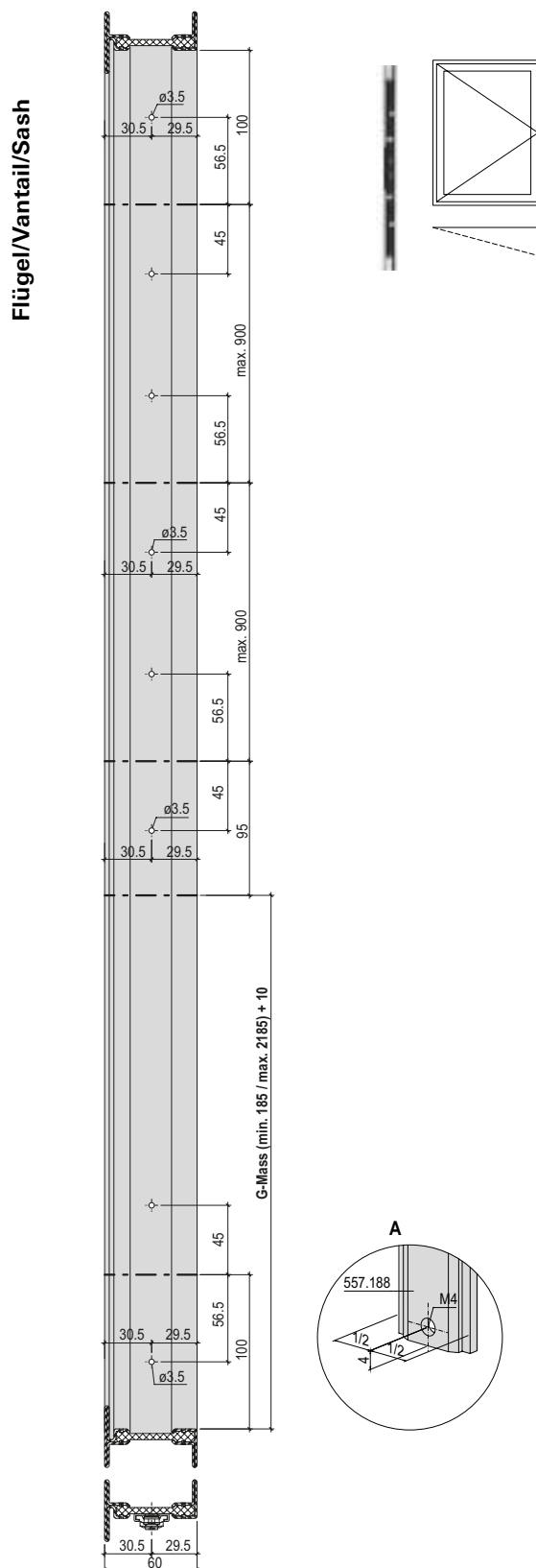
**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 670-2370**



Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 670-2370



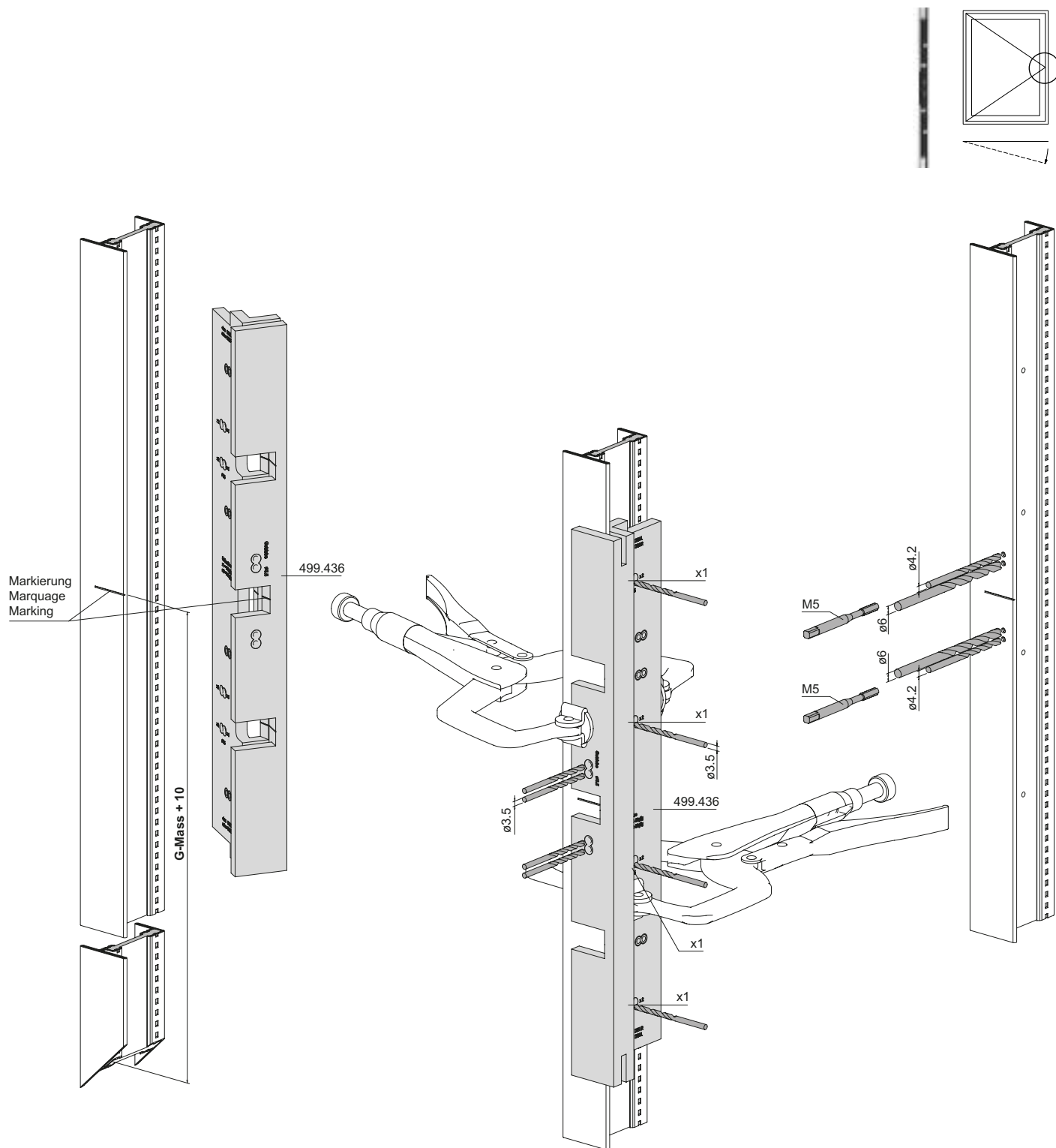
**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 670-2370**



Bohrlehre 499.436 für
Getriebe 557.187
und Fenstergriff 557.185
Rahmen

Gabarit de perçage 499.436
pour crémonne 557.187
et poignée de fenêtre 557.185
Cadre

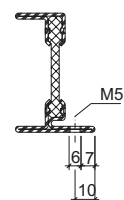
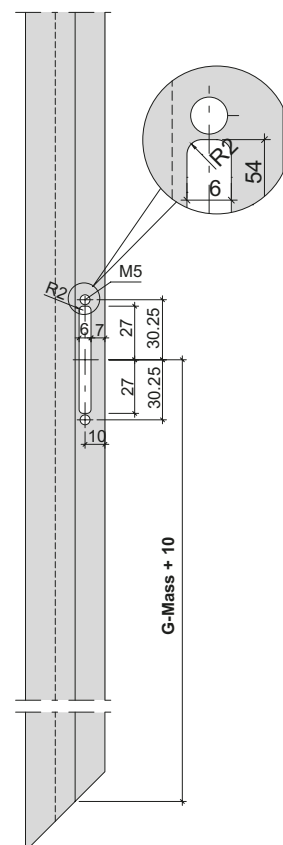
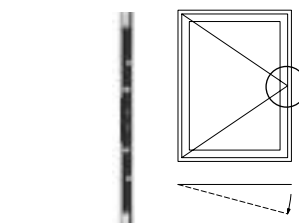
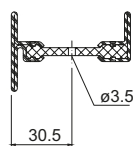
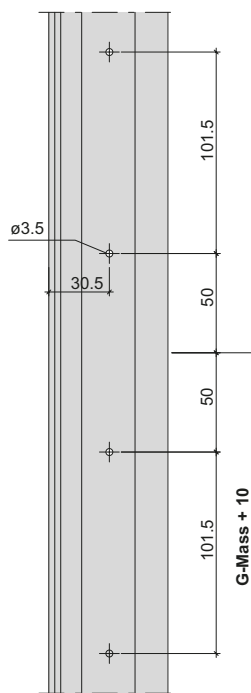
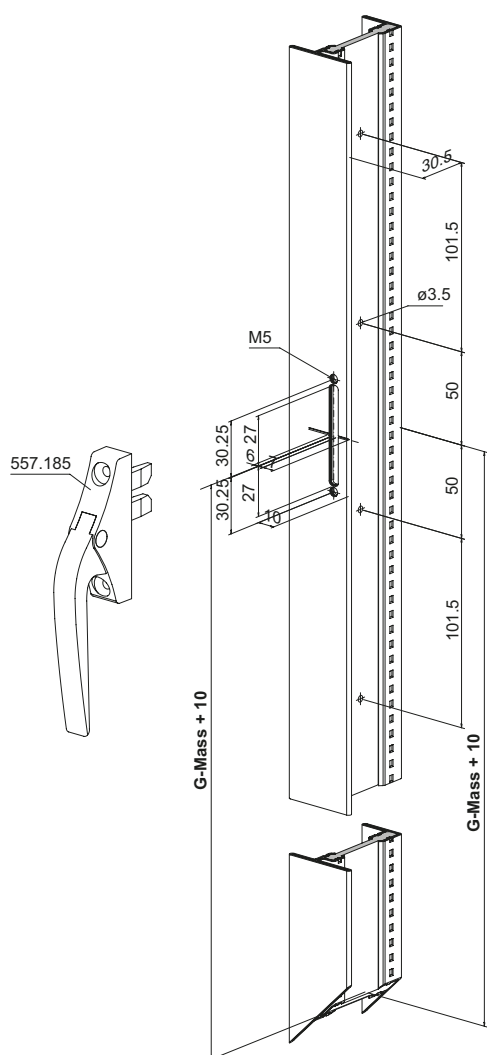
Drilling jig 499.436 for
mechanism 557.187
and window handle 557.185
Frame



Bohrbild und Fräsung
für Getriebe 557.187
und Fenstergriff 557.185
Rahmen

Schéma de perçage et fraisage
pour crémone 557.187
et poignée de fenêtre 557.185
Cadre

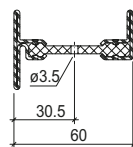
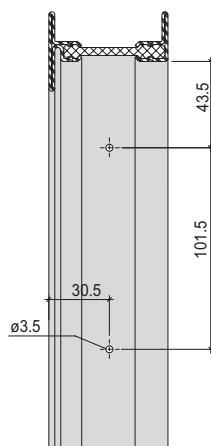
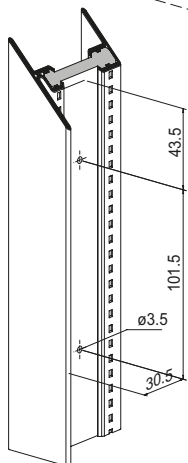
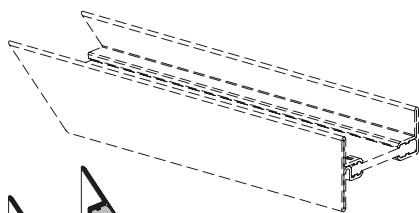
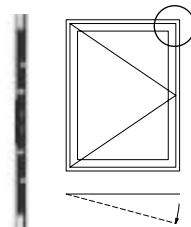
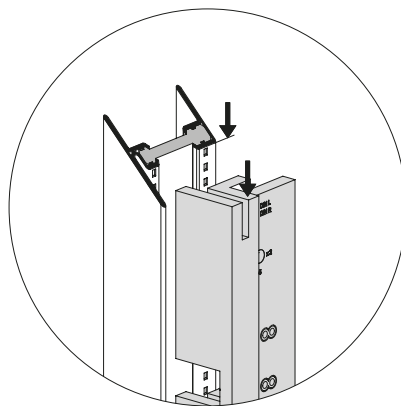
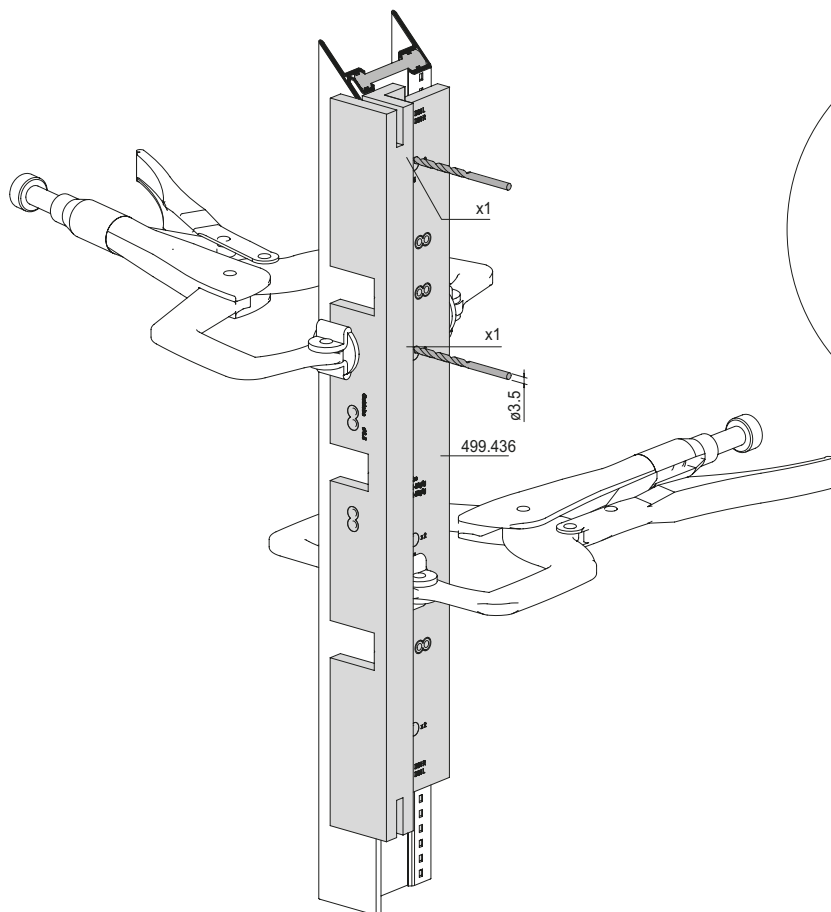
Drilling pattern and milling
for mechanism 557.187
and window handle 557.185
Frame



Bohrlehre 499.436 für
Getriebeverlängerung 557.188
Rahmen oben

Gabarit de perçage 499.436 pour
prolongement de la crémonne
557.188 Cadre en haut

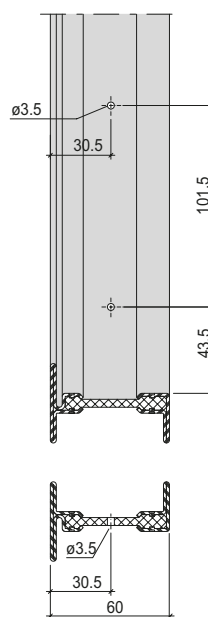
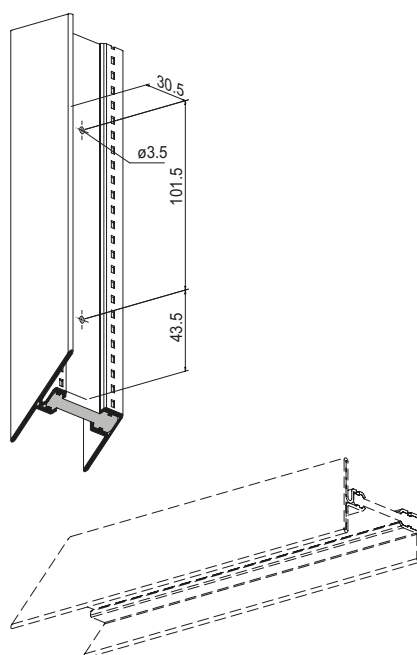
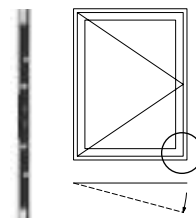
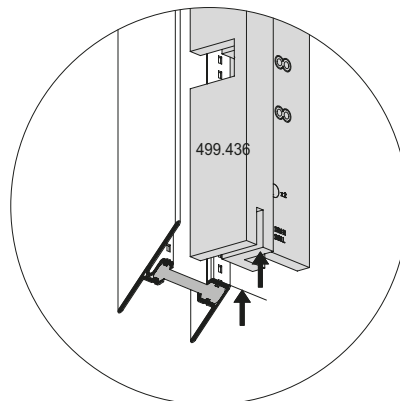
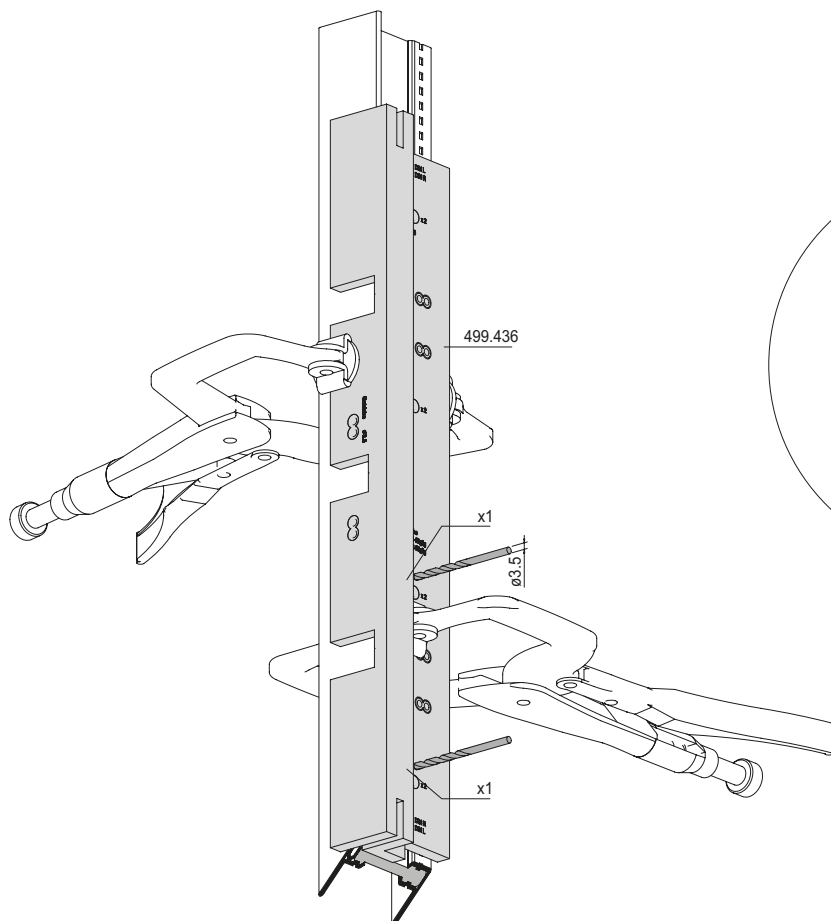
Drilling jig 499.436 for
gearbox extension 557.188
Frame top



Bohrlehre 499.436 für
Getriebeverlängerung 557.188
Rahmen unten

Gabarit de perçage 499.436 pour
prolongement de la crémonne
557.188 Cadre en bas

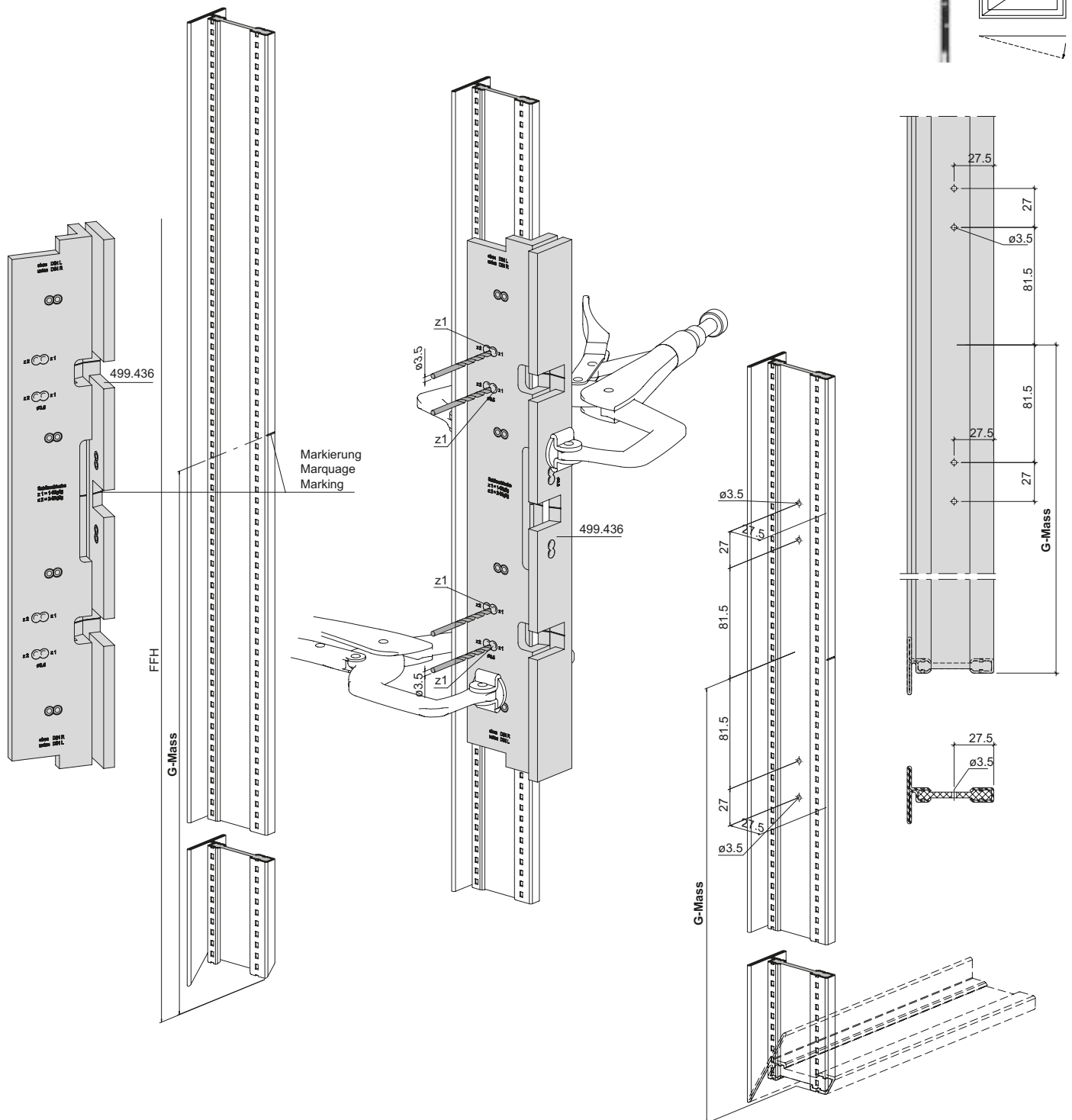
Drilling jig 499.436 for
gearbox extension 557.188
Frame bottom



Bohrlehre 499.436 für
Schliessblech 557.189 beim Getriebe
Flügel

Gabarit de perçage 499.436 pour
gâche 557.189 pour crémonne
Vantail

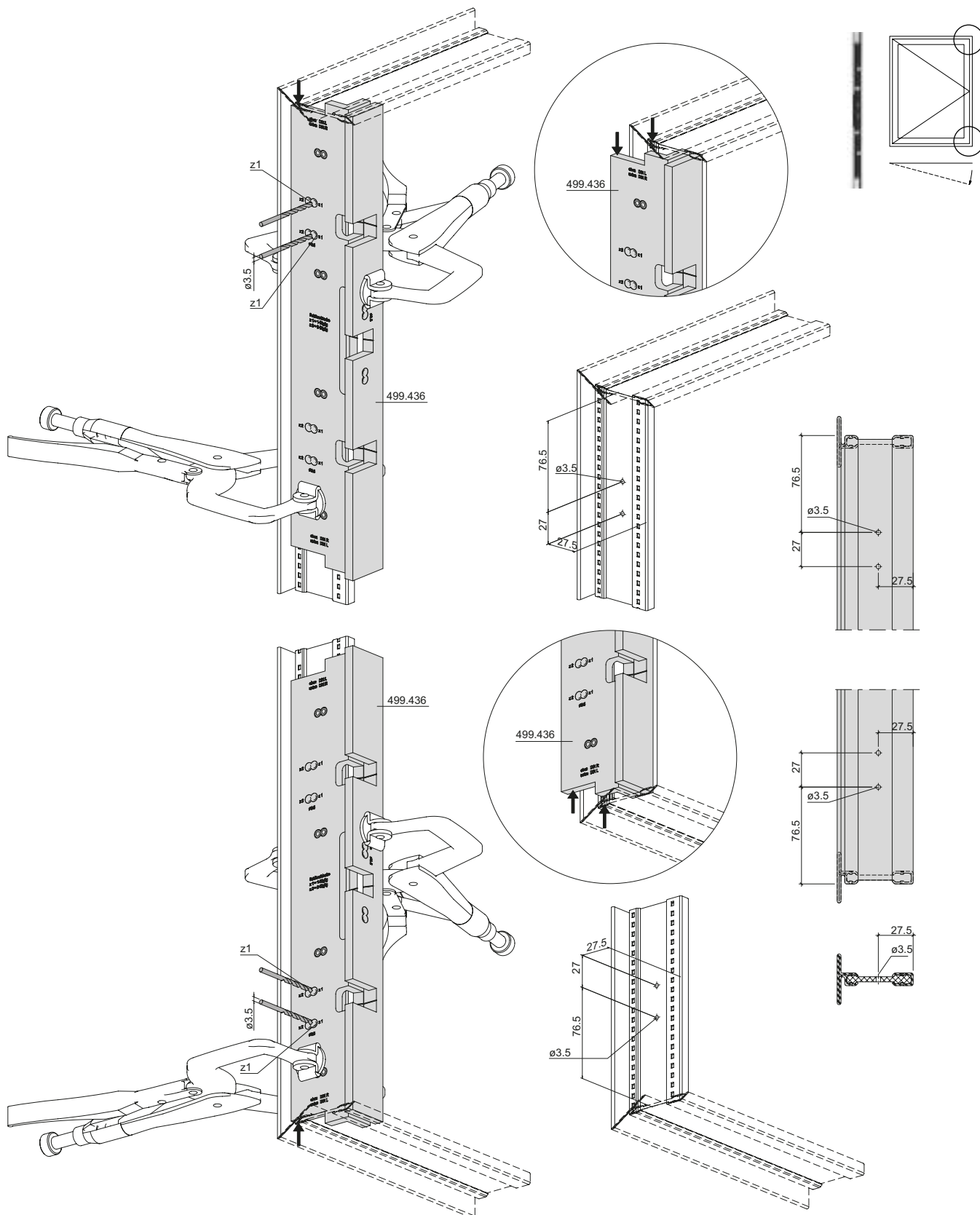
Drilling jig 499.436 for striking plate
557.189 for mechanism
Sash



Bohrlehre 499.436 für
Schliessbleche 557.189
Flügel oben und unten

Gabarit de perçage 499.436
pour gâches 557.189
Vantail en haut et en bas

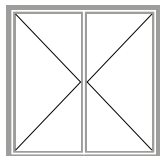
Drilling jig 499.436 for
striking plates 557.189
Sash top and bottom



Beschlageinbau
Montage des ferrures
Installation of fittings

Janisol Arte
Janisol Arte
Janisol Arte

2.0



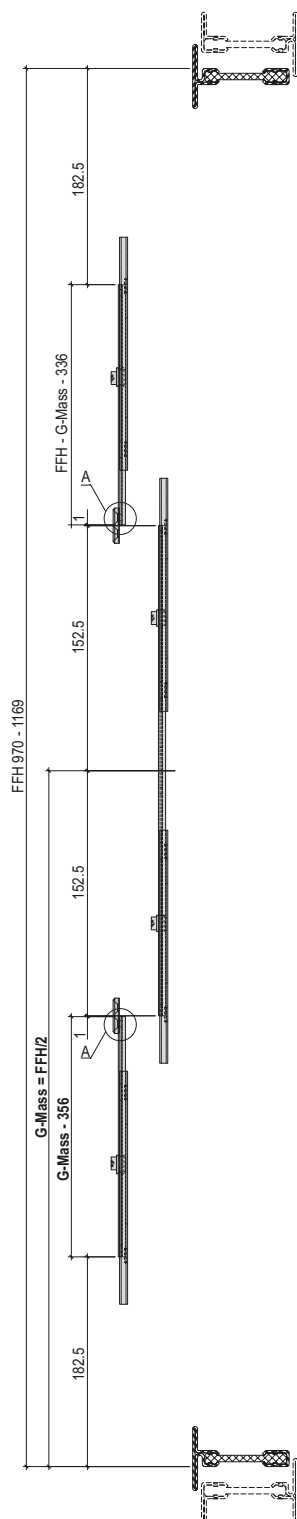
Drehfenster nach aussen öffnend	Fenêtre à la française ouvrant vers l'extérieur	Side-hung window outward opening	
Zuschnitt Getriebeverlängerung Bohrbild Getriebeverlängerung und Schliessbleche	Découpe prolongement de la crémonne Schéma de perçage prolongement de la crémonne et gâches	Cutting gearbox extension Drilling pattern gearbox extension and striking plates	230
Bohrlehre 499.436 für Getriebe 557.187 und Fenstergriff 557.185	Gabarit de perçage 499.436 pour crémonne 557.187 et poignée de fenêtre 557.185	Drilling jig 499.436 for mechanism 557.187 and window handle 557.185	234
Bohrlehre 499.436 für Getriebeverlängerung 557.188	Gabarit de perçage 499.436 pour prolongement de la crémonne 557.188	Drilling jig 499.436 for gearbox extension 557.188	236
Bohrlehre 499.436 für Schliessbleche 557.189	Gabarit de perçage 499.436 pour gâches 557.189	Drilling jig 499.436 for striking plates 557.189	238
Überwachung RFID	Surveillance RFID	RFID monitoring	242

**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 970-1169**

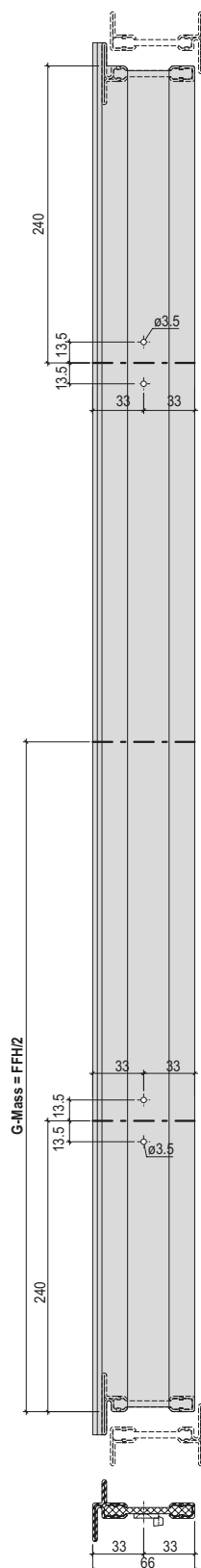
Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 970-1169

**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 970-1169**

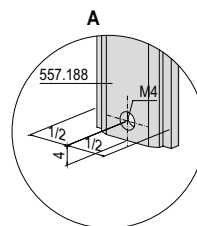
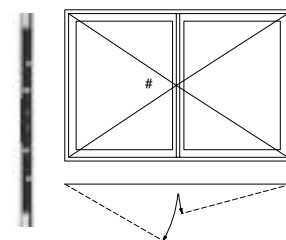
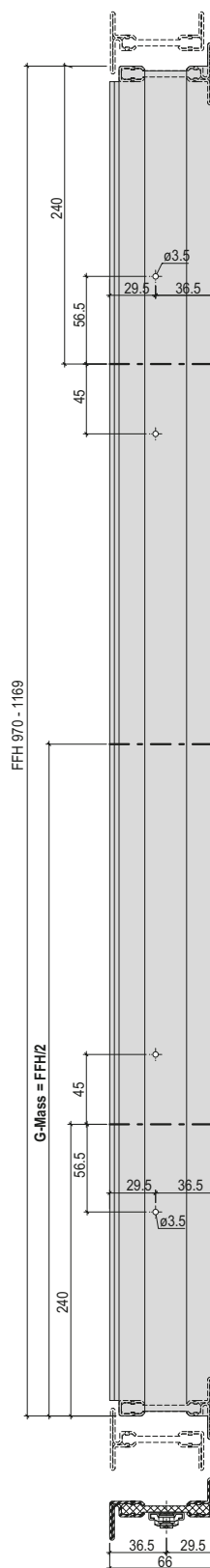
Zuschnitt/Découpe/Cutting



Gangflügel/Vantail de service/Access sash



Standflügel/Vantail semi-fixe/Secondary sash

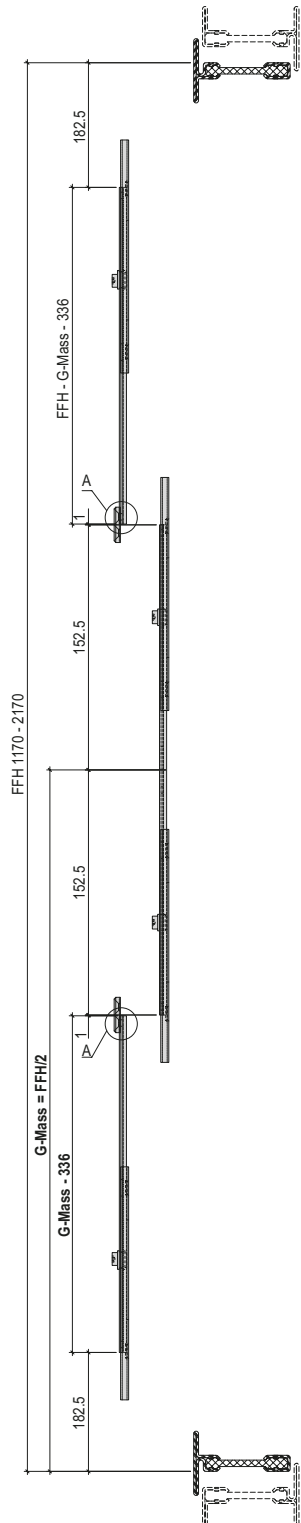


Zuschnitt Getriebeverlängerung Bohrbild Getriebeverlängerung und Schliessbleche FFH 1170-2170

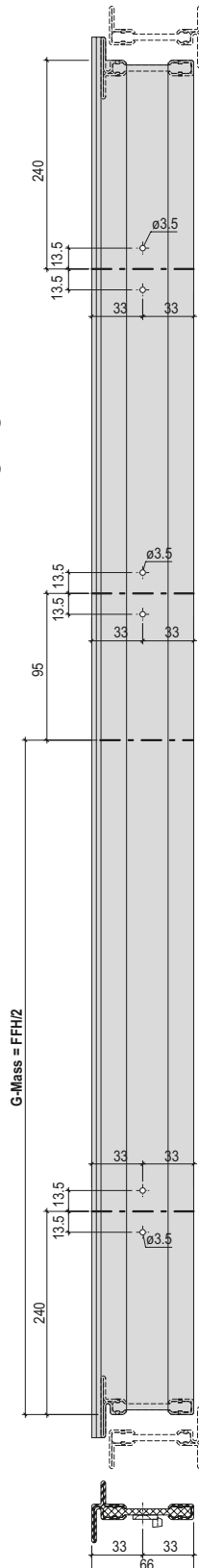
Découpe prolongement de la crème Schéma de perçage prolongement de la crème et gâches FFH 1170-2170

**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 1170-2170**

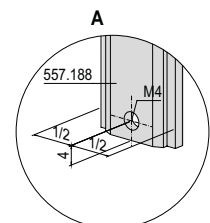
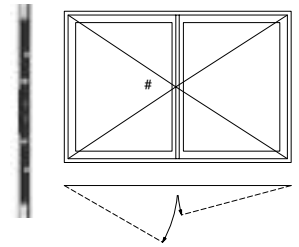
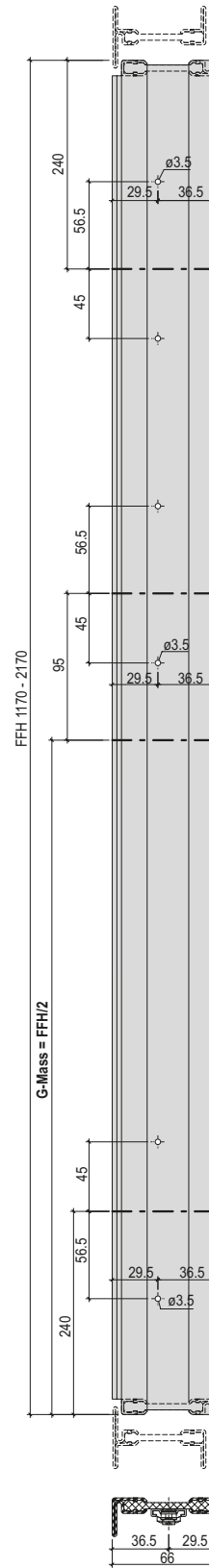
Zuschnitt/Découpe/Cutting



Gangflügel/Vantail de service/Access sash

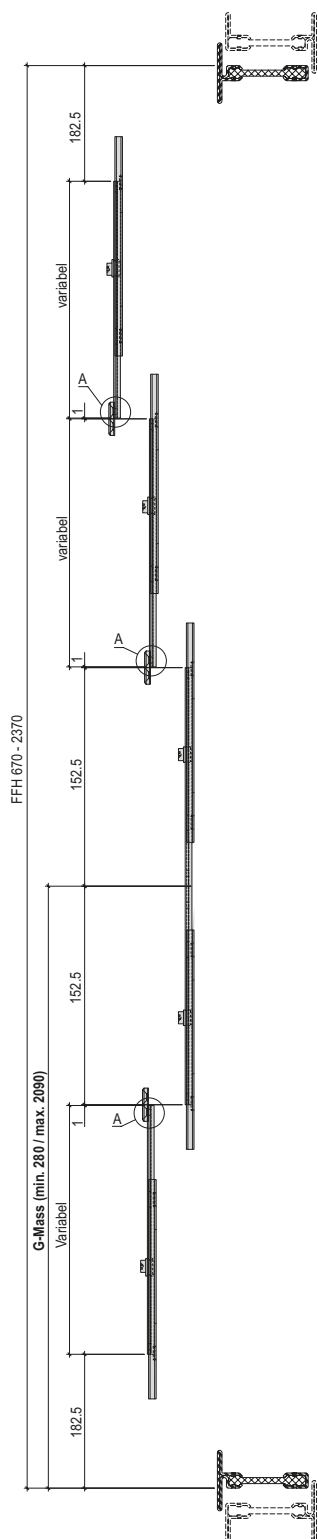


Standflügel/Vantail semi-fixe/Secondary sash



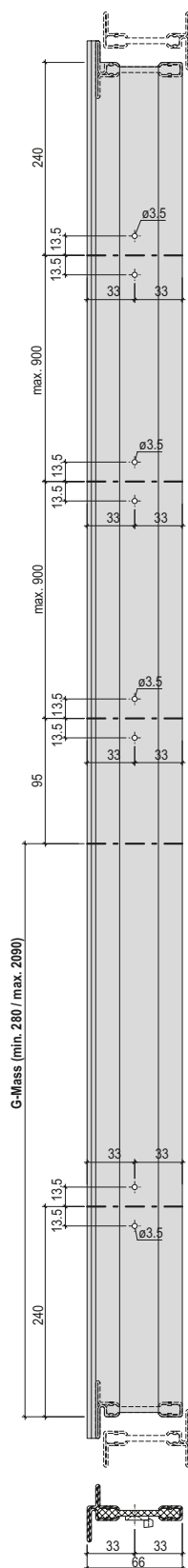
**Zuschnitt Getriebeverlängerung
Bohrbild Getriebeverlängerung
und Schliessbleche
FFH 670-2370**

Zuschnitt/Découpe/Cutting



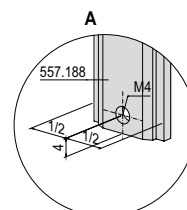
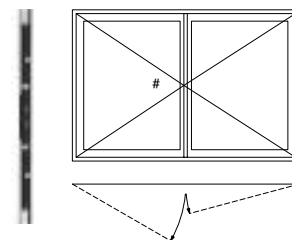
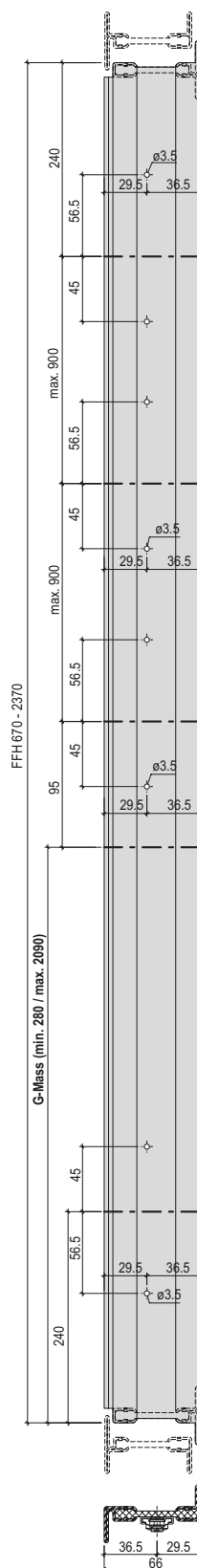
Découpe prolongement de la crémona
Schéma de perçage prolongement
de la crémona et gâches
FFH 670-2370

Gangflügel/Vantail de service/Access sash



**Cutting gearbox extension
Drilling pattern gearbox extension
and striking plates
FFH 670-2370**

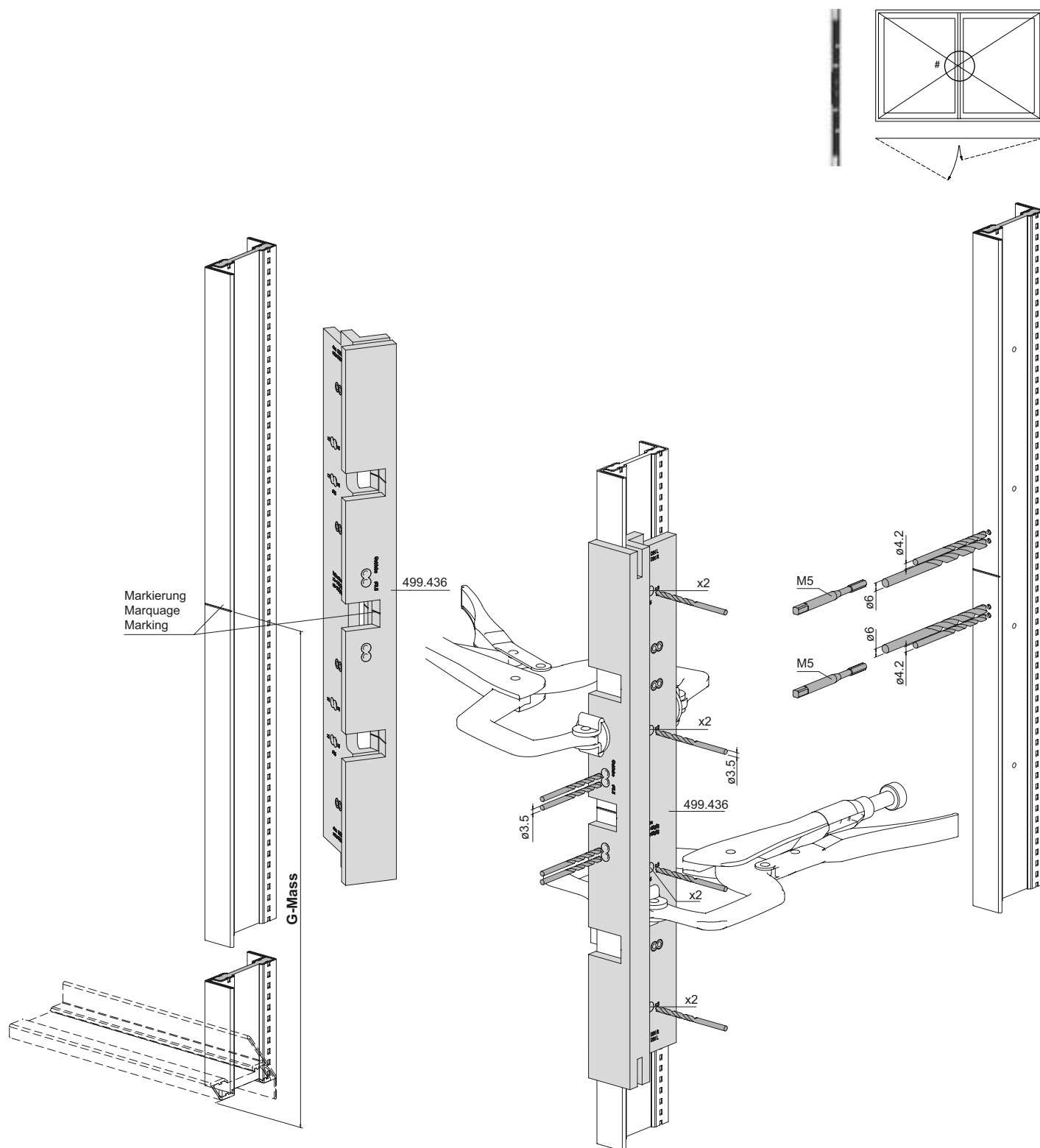
Standflügel/Vantail semi-fixe/Secondary sash



**Bohrlehre 499.436 für
Getriebe 557.187
und Fenstergriff 557.185
Standflügel**

**Gabarit de perçage 499.436
pour crémone 557.187
et poignée de fenêtre 557.185
Vantail semi-fixe**

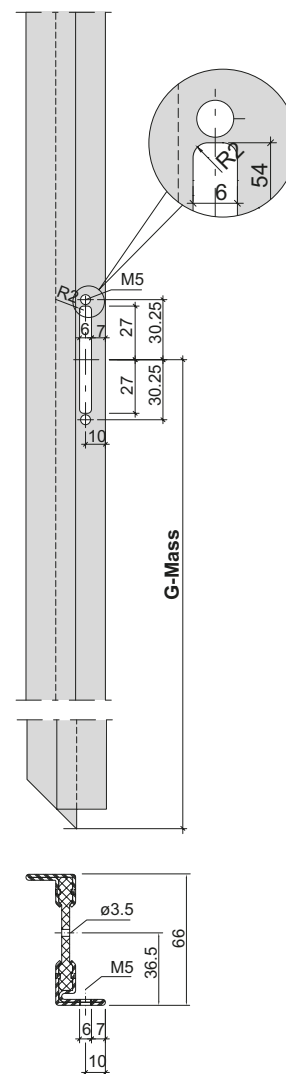
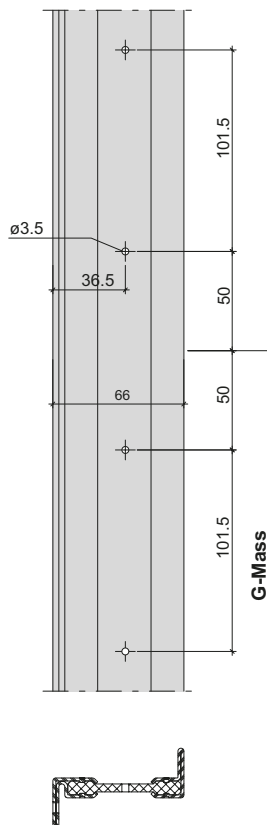
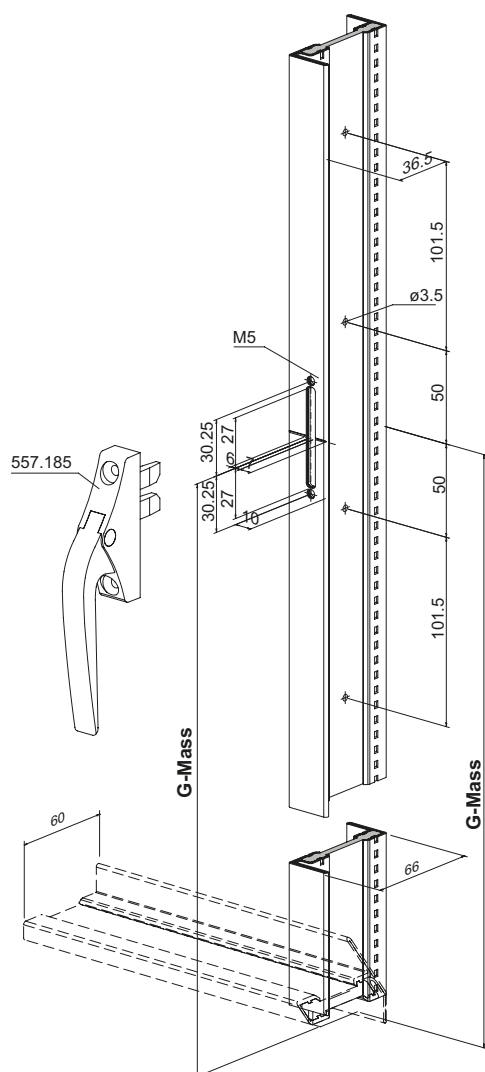
**Drilling jig 499.436 for
mechanisme 557.187
and window handle 557.185
Secondary sash**



Bohrbild und Fräsung
für Getriebe 557.187
und Fenstergriff 557.185
Standflügel

Schéma de perçage et fraisage
pour crémone 557.187
et poignée de fenêtre 557.185
Vantail semi-fixe

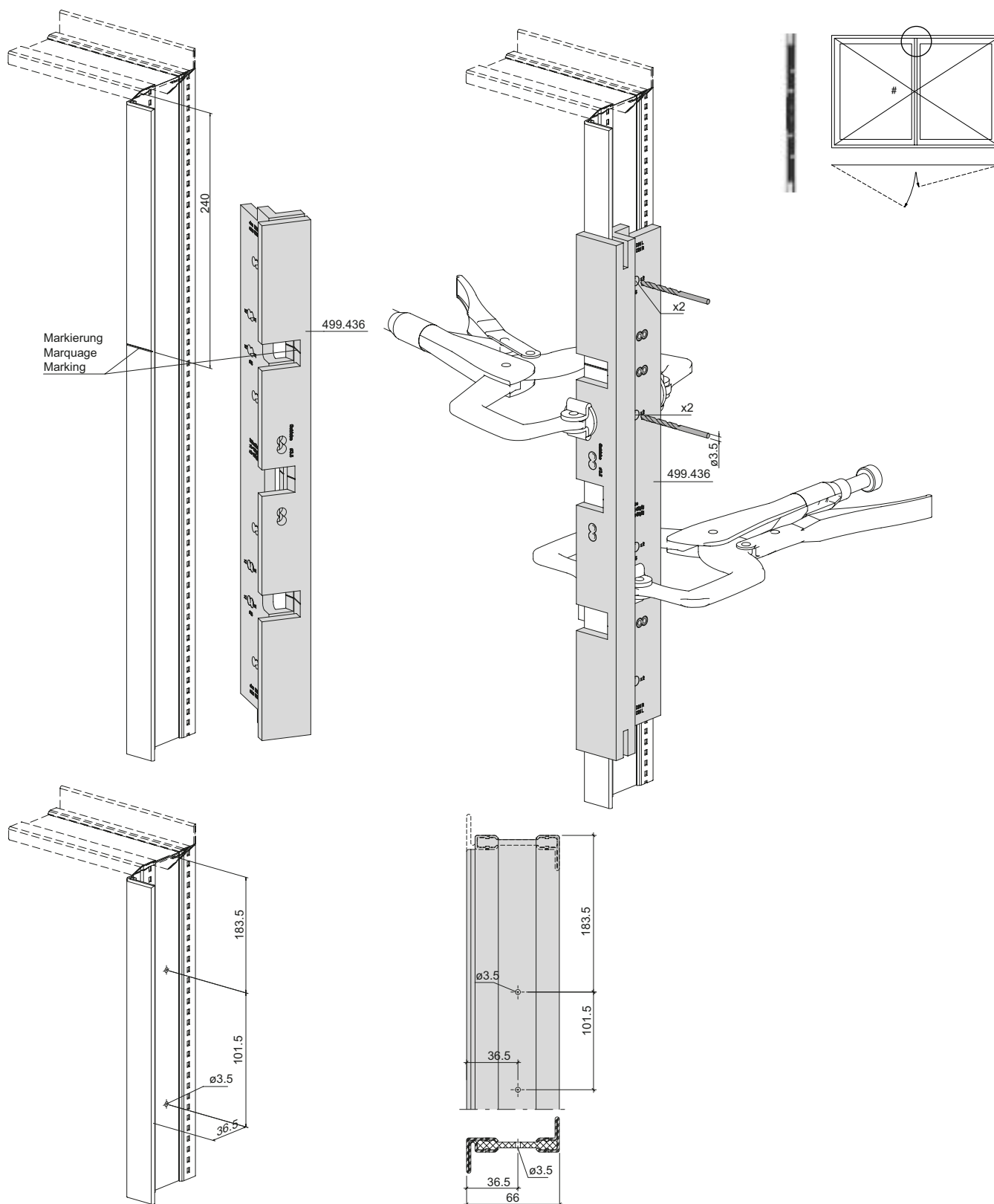
Drilling pattern and milling
for mechanism 557.187
and window handle 557.185
Secondary sash

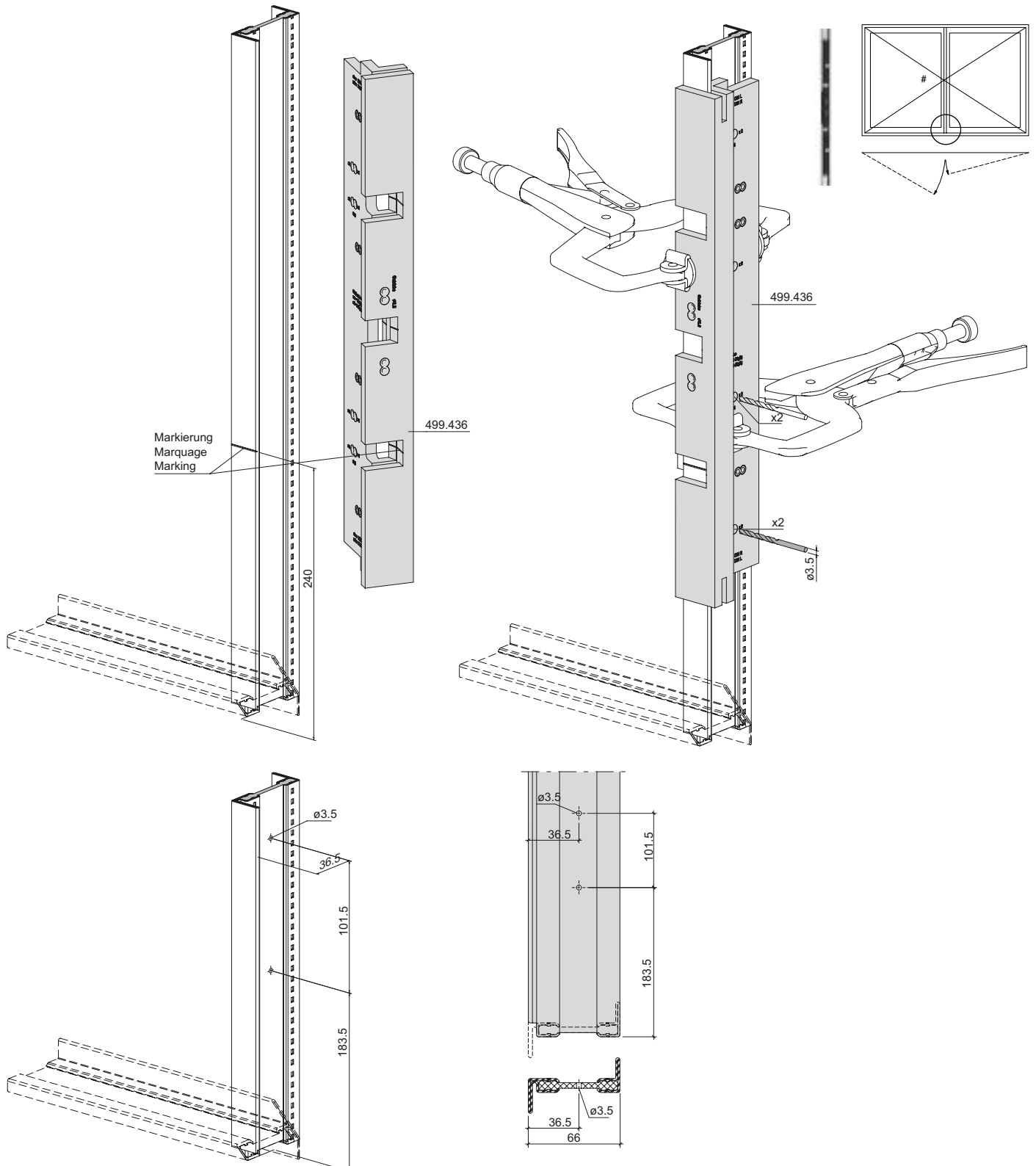


**Bohrlehre 499.436 für
 Getriebeverlängerung 557.188
 Standflügel oben**

**Gabarit de perçage 499.436 pour
 prolongement de la crémonne
 557.188 Vantail semi-fixe en haut**

**Drilling jig 499.436 for
 gearbox extension 557.188
 Secondary sash top**

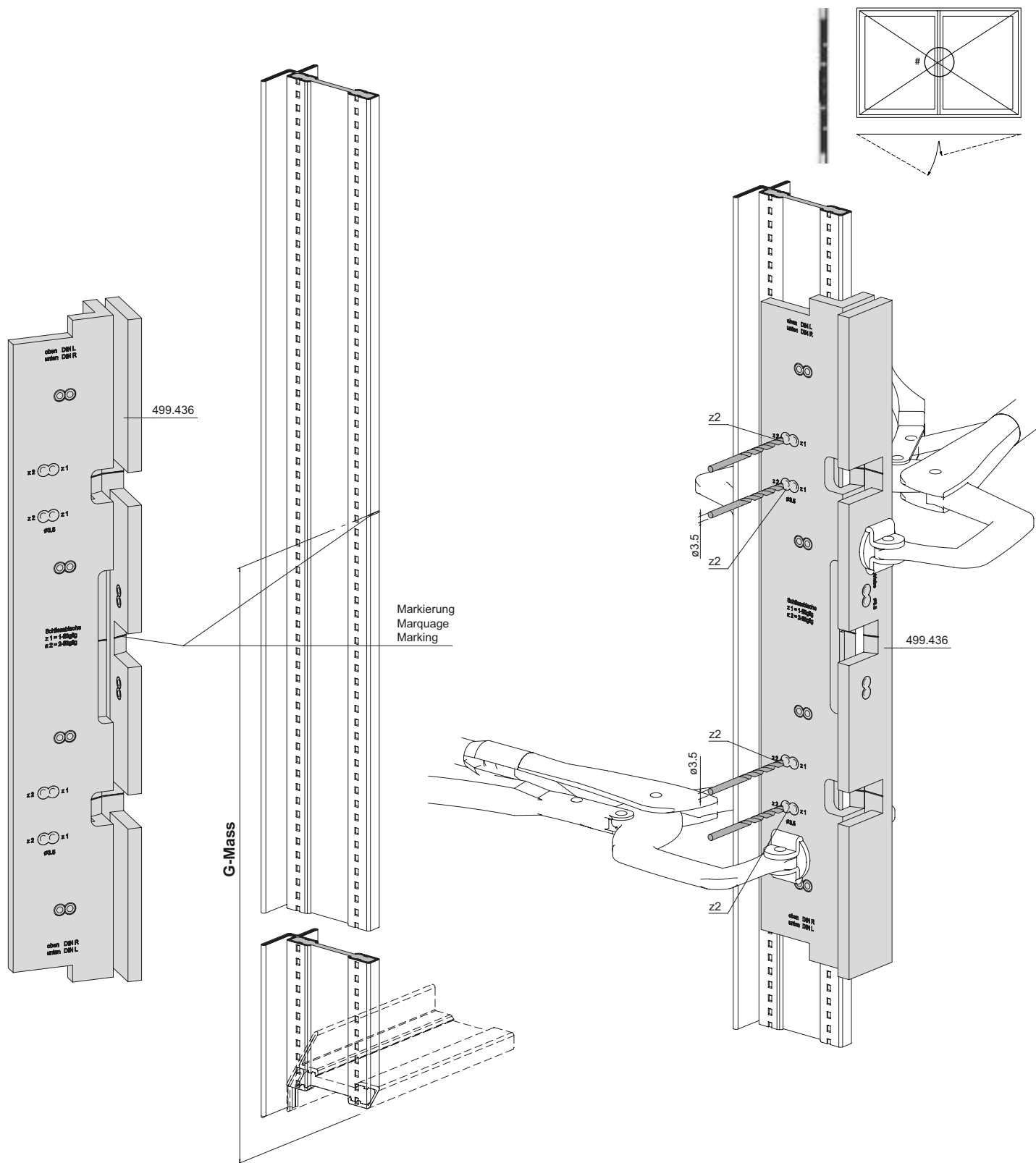




Bohrlehre 499.436 für
Schliessblech 557.189 beim Getriebe
Gangflügel

Gabarit de perçage 499.436 pour
gâche 557.189 pour crémone
Vantail de service

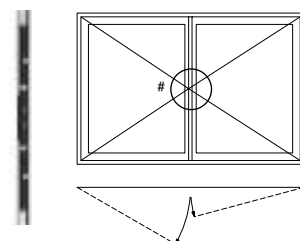
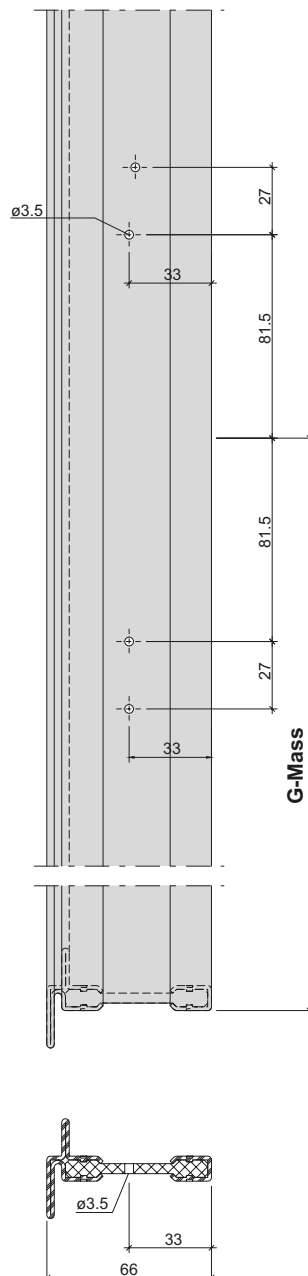
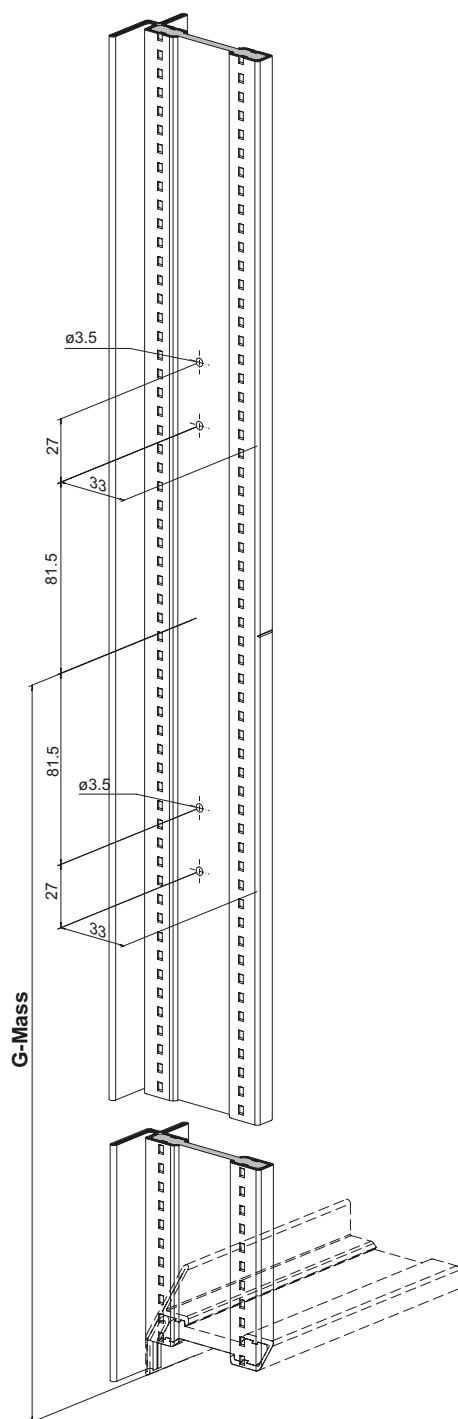
Drilling jig 499.436 for striking plate
557.189 for mechanism
Access sash



Bohrbild für Schliessblech 557.189
beim Getriebe
Gangflügel

Schéma de perçage pour
gâche 557.189 pour crémonne
Vantail de service

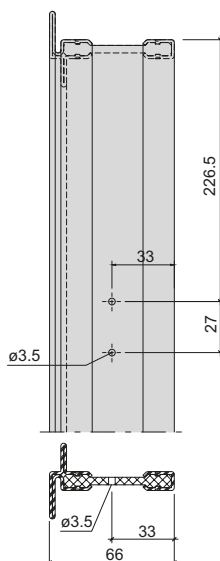
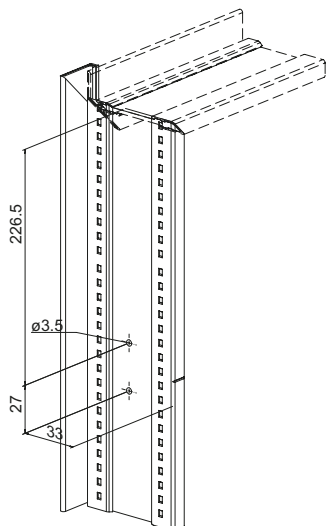
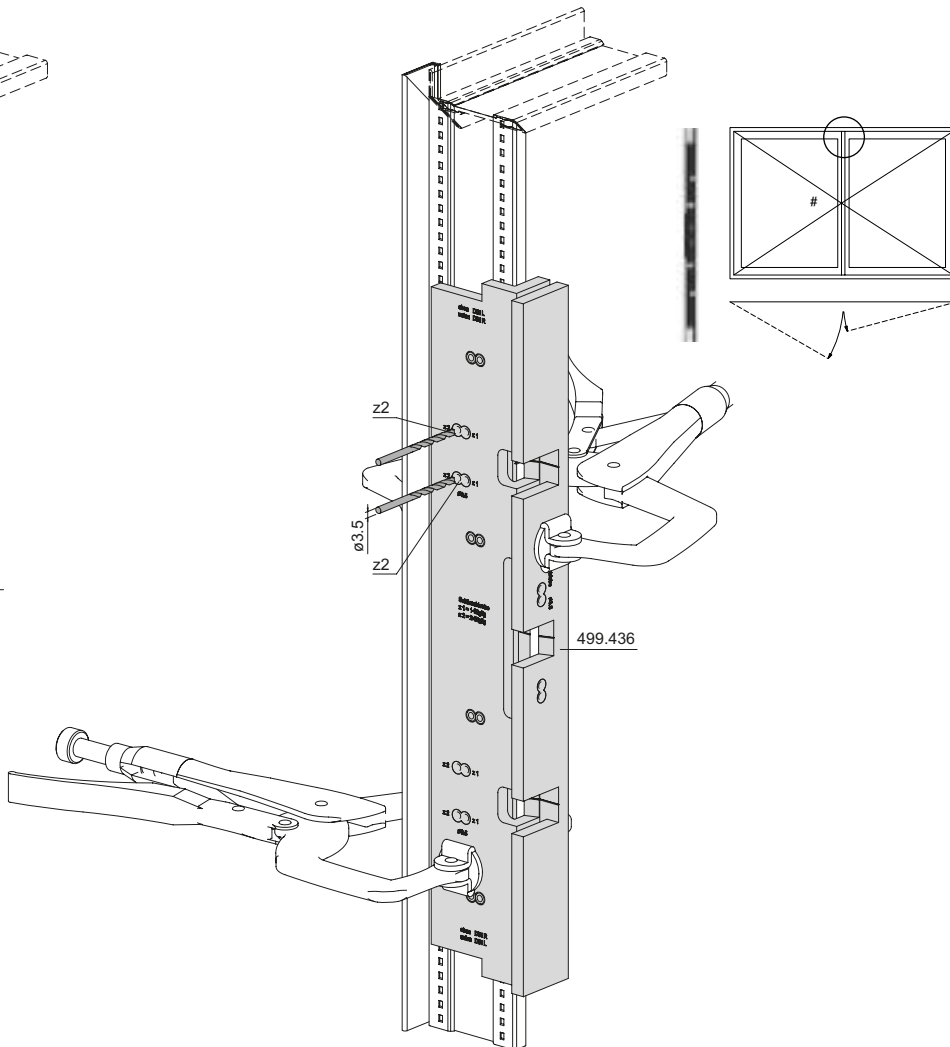
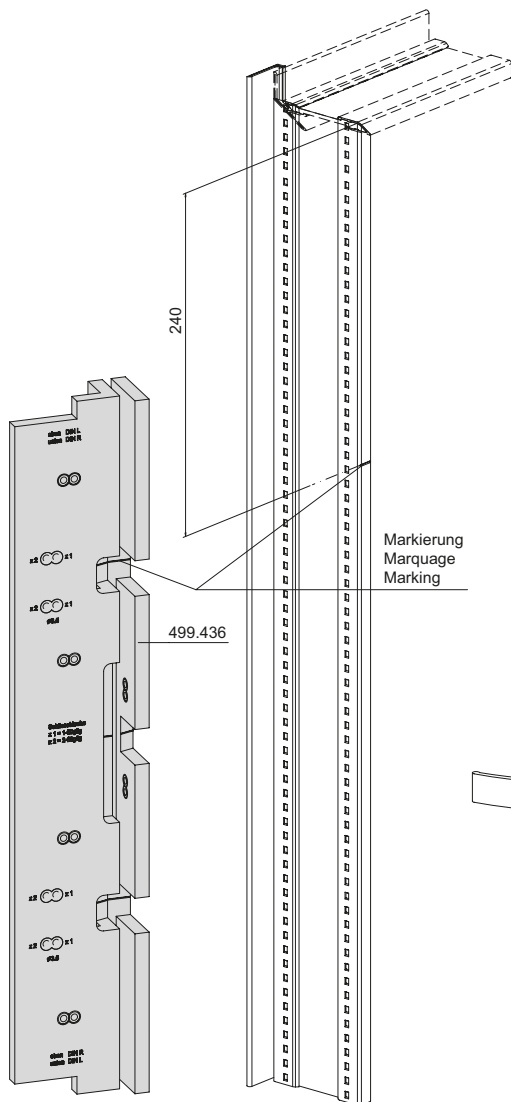
Drilling pattern for striking plate
557.189 for mechanism
Access sash



Bohrlehre 499.436 für
Schliessbleche 557.189
Gangflügel oben

Gabarit de perçage 499.436
pour gâches 557.189
Vantail de service en haut

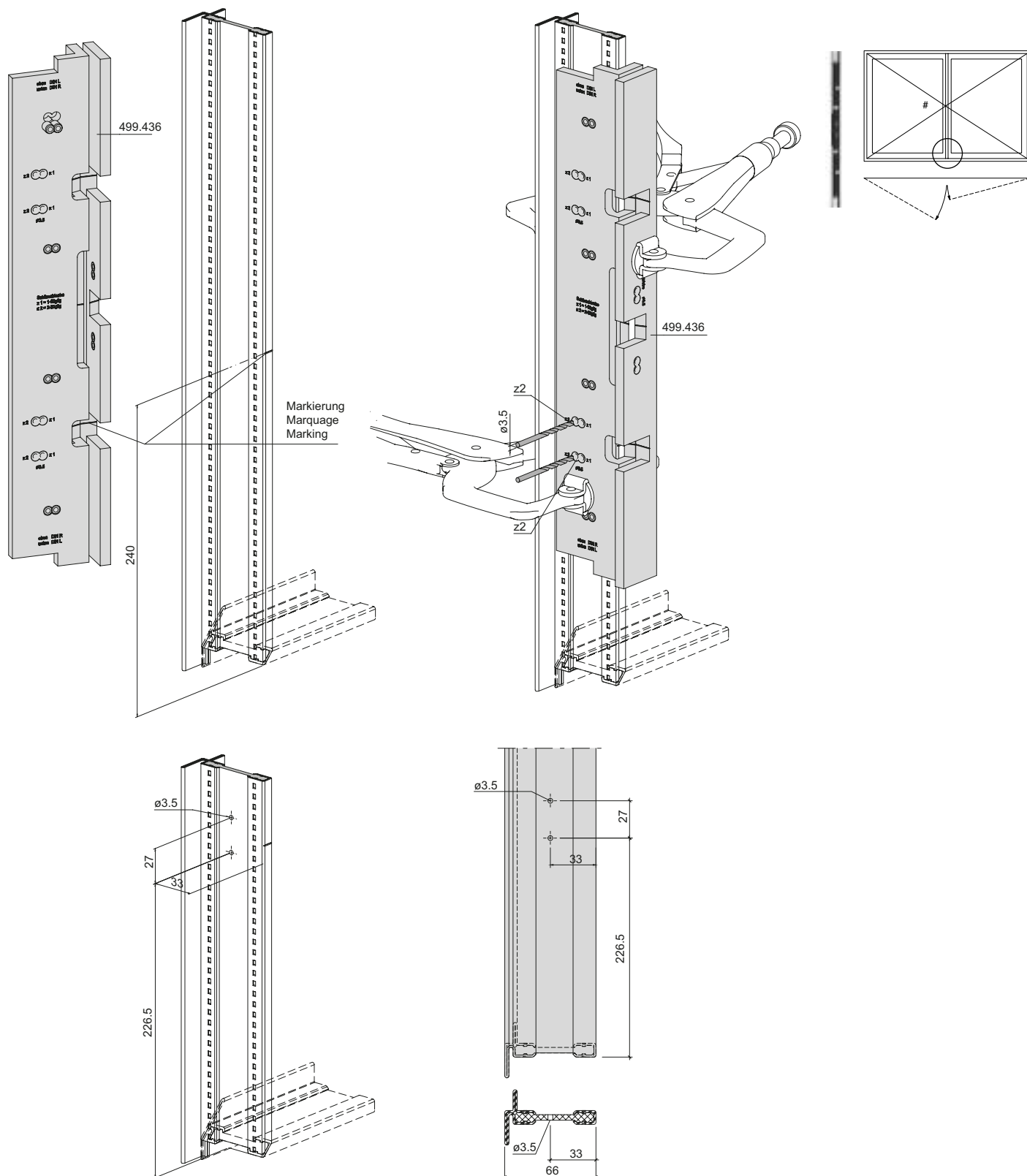
Drilling jig 499.436 for
striking plates 557.189
Access sash top



Bohrlehre 499.436 für
Schliessbleche 557.189
Gangflügel unten

Gabarit de perçage 499.436
pour gâches 557.189
Vantail de service en bas

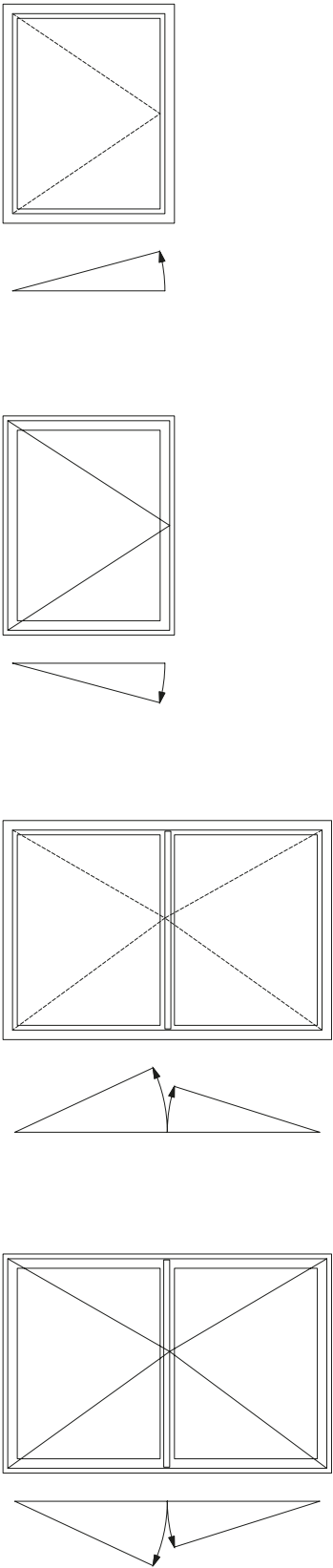
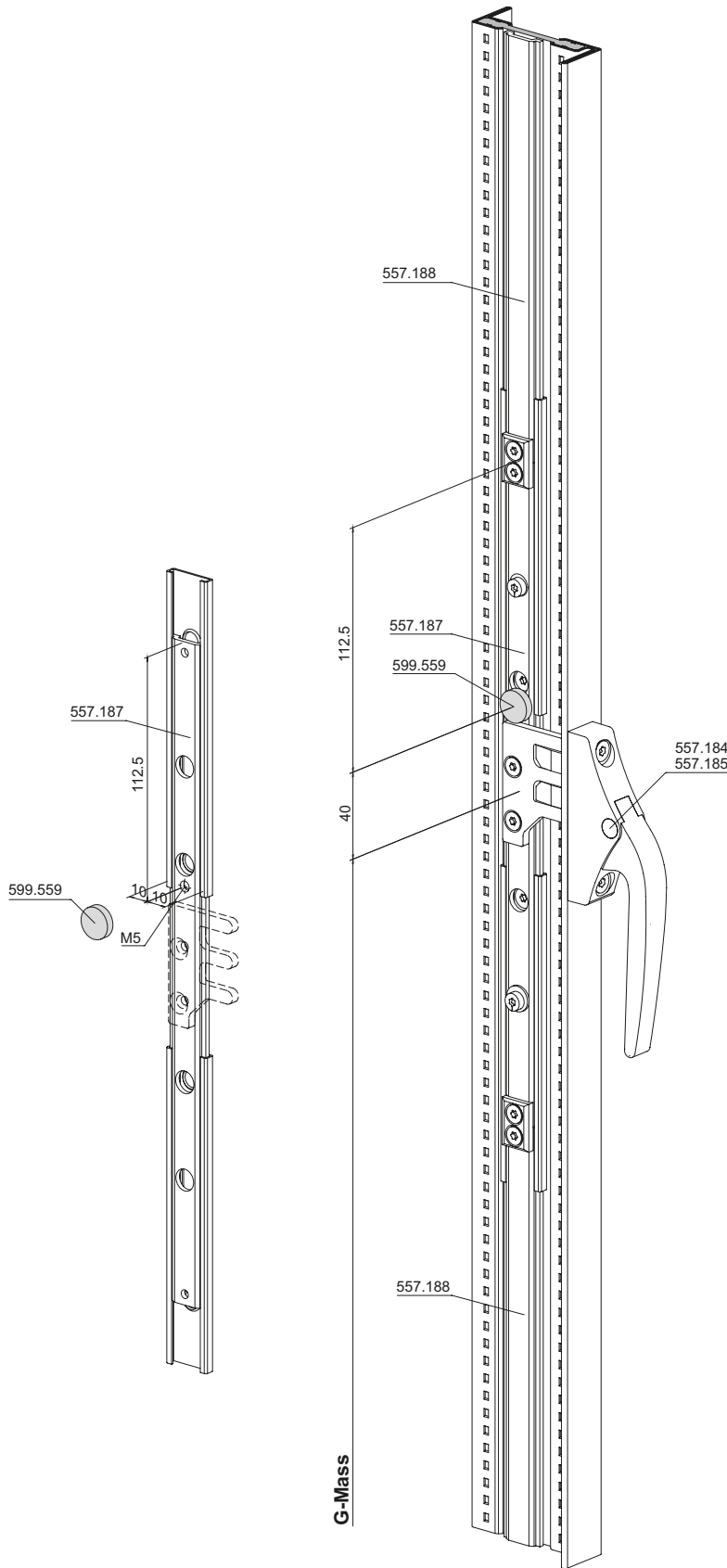
Drilling jig 499.436 for
striking plates 557.189
Access sash bottom



Überwachung RFID
Einbau Magnet 599.559

Surveillance RFID
Montage aimant 599.559

RFID monitoring
Installation of magnet 599.559

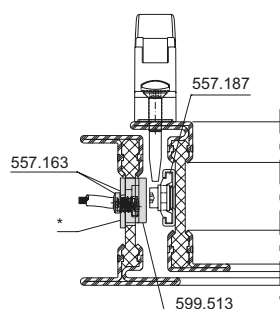


Überwachung RFID
Ausnehmung Rahmen
Kammermass 10 mm

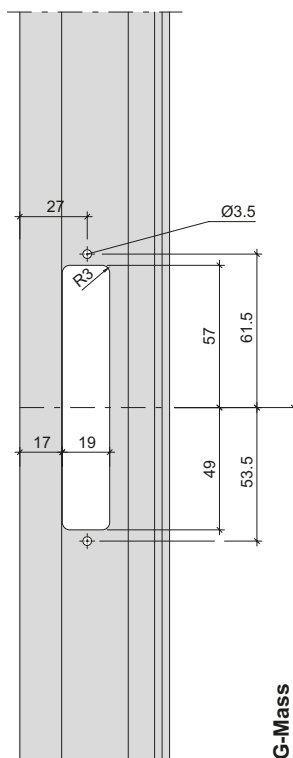
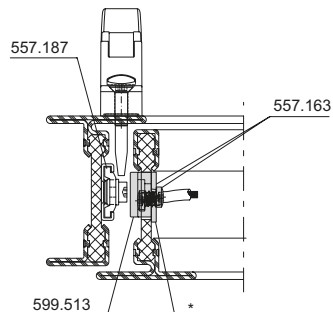
Surveillance RFID
Évidement cadre
Dimensions de caisson 10 mm

RFID monitoring
Frame opening
Chamber size 10 mm

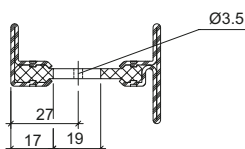
Nach innen öffnend
 Ouvrant vers l'intérieur
 Inward opening



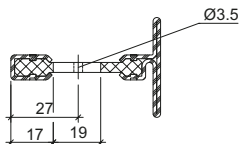
Nach aussen öffnend
 Ouvrant vers l'extérieur
 Outward opening



Ausnehmung Rahmen
 Entaille cadre
 Cut-out frame



Ausnehmung Flügel
 Entaille vantail
 Cut-out sash

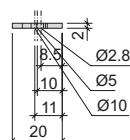
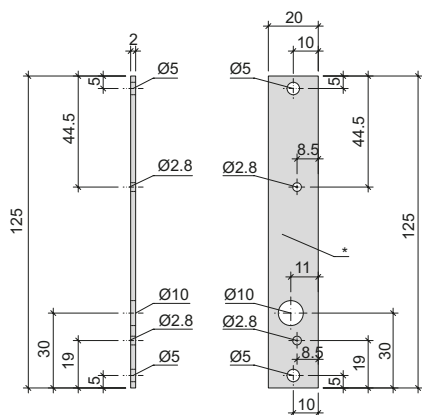
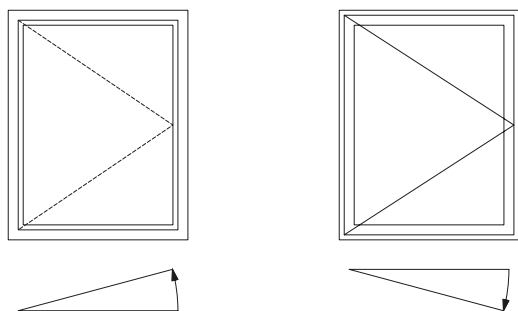


- * 2 mm Aluminiumblech durch Metallbauer zu fertigen
- * Tôle en aluminium 2 mm à fabriquer par le métallier
- * 2 mm aluminium sheet to be made by metal constructor

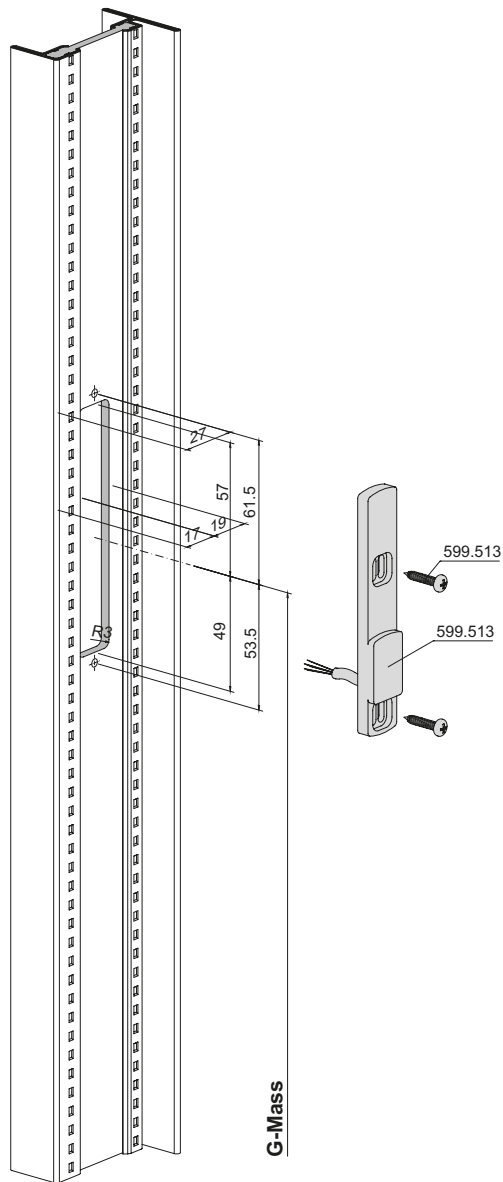
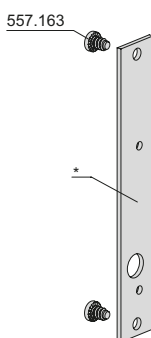
Überwachung RFID
Einbau Empfänger 599.513

Surveillance RFID
Montage récepteur 599.513

RFID monitoring
Installation recipient 599.513



* 2 mm Aluminiumblech durch Metallbauer zu fertigen
 * Tôle en aluminium 2 mm à fabriquer par le métallier
 * 2 mm aluminium sheet to be made by metal constructor

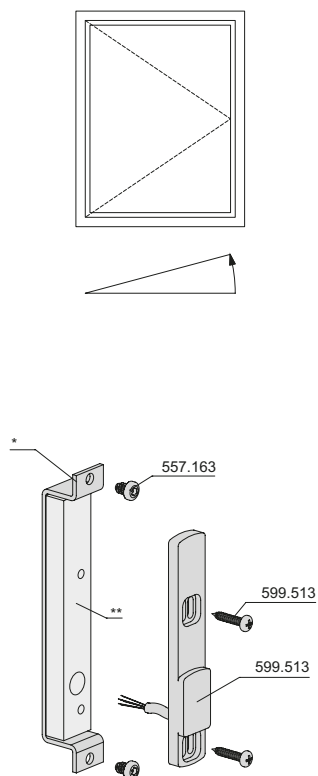
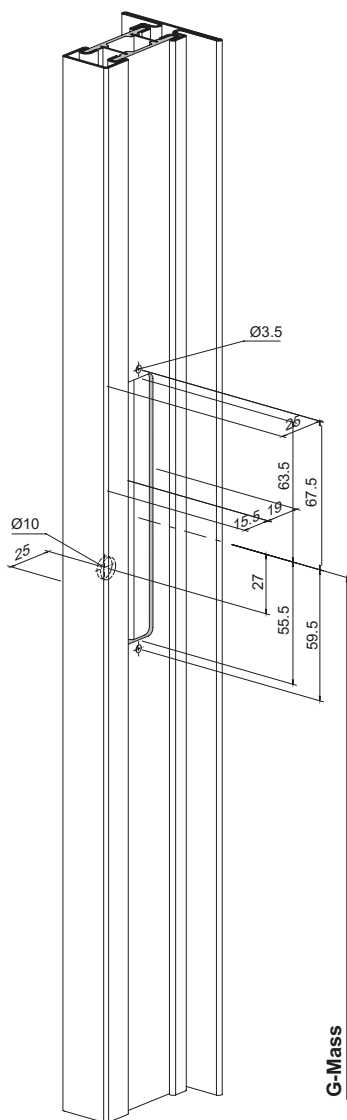


G-Mass

Überwachung RFID
Ausnehmung Rahmen
Kammermass 25/50 mm

Surveillance RFID
Évidement cadre
Dimensions de caisson 25/50 mm

RFID monitoring
Frame opening
Chamber size 25/50 mm



* 2 mm Aluminiumblech durch Metallbauer zu fertigen
 * Tôle en aluminium 2 mm à fabriquer par le métallier
 * 2 mm aluminium sheet to made by metal constructor

** Durch Metallbauer zu fertigen (Kunststoff)
 ** A fabriquer par le métallier (matière plastique)
 ** To made by metal constructor (plastic)

Überwachung RFID

Einbau Empfänger 599.513

Surveillance RFID

Montage récepteur 599.513

RFID monitoring
Installation recipient 599.513

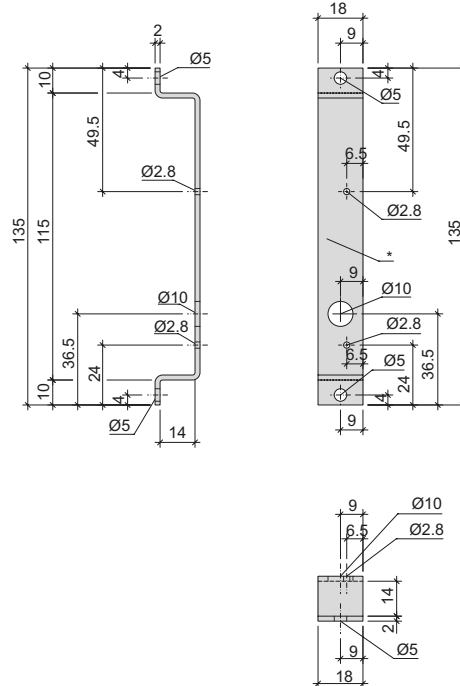
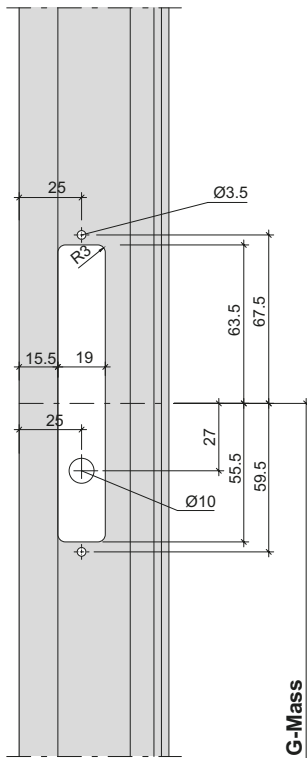
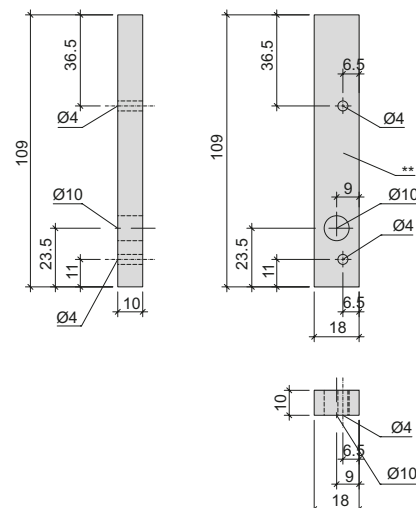
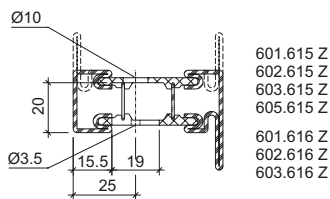
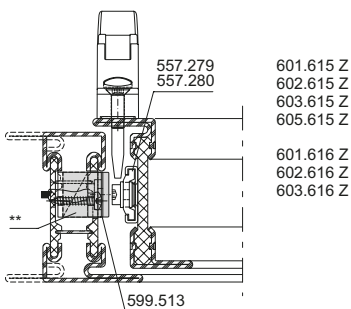


Abbildung für rechts öffnenden Flügel
Illustration pour vantail à ouverture vers la droite
Illustration for right opening leaf

- * 2 mm Aluminiumblech durch Metallbauer zu fertigen
- * Tôle en aluminium 2 mmà fabriquer par le métallier
- * 2 mm aluminium sheet to made by metal constructor



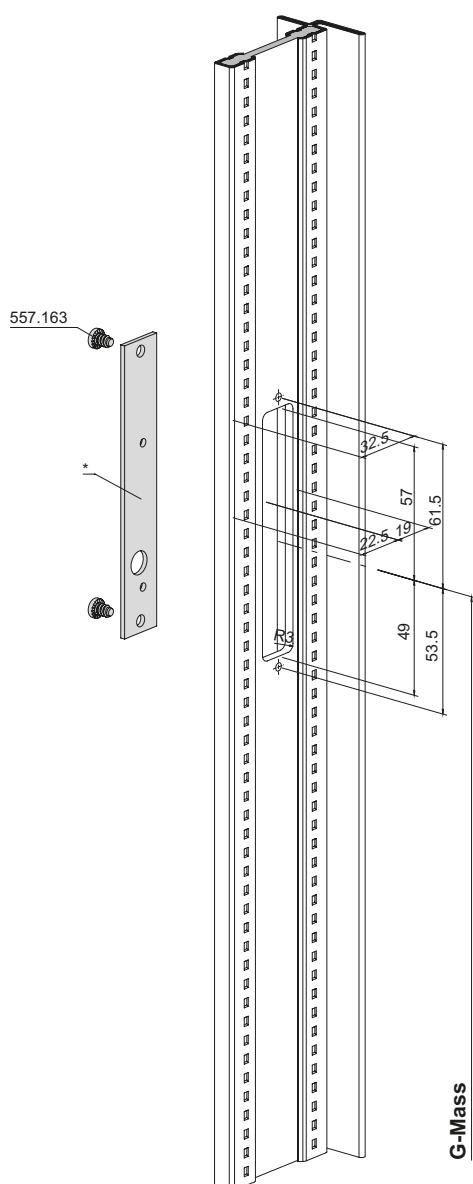
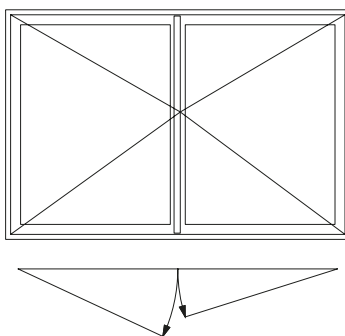
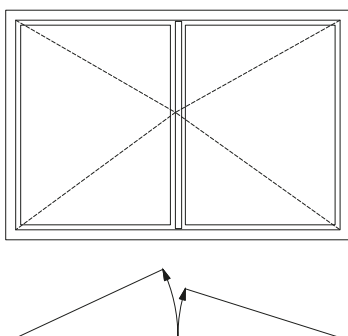
** Durch Metallbauer zu fertigen (Kunststoff)
 ** A fabriquer par le métallier (matière plastique)
 ** To made by metal constructor (plastic)



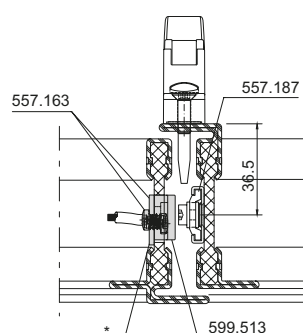
Überwachung RFID
Ausnehmung Stulpprofil

Surveillance RFID
Évidement profilé complémentaire

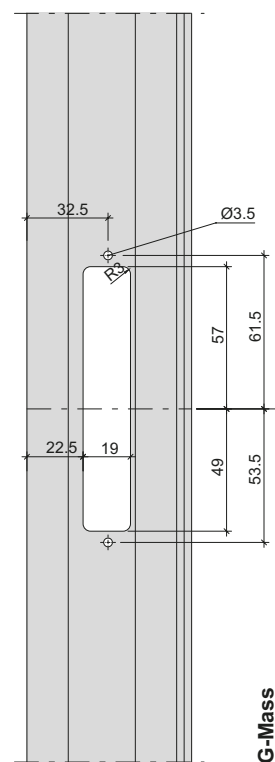
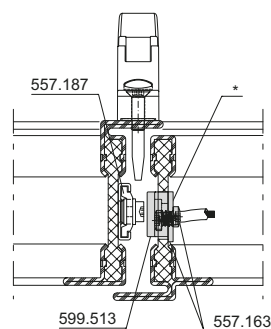
RFID monitoring
Forend profile opening



Nach innen öffnend
Ouvrant vers l'intérieur
Inward opening



Nach aussen öffnend
Ouvrant vers l'extérieur
Outward opening

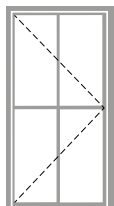


- * 2 mm Aluminiumblech durch Metallbauer zu fertigen
- * Tôle en aluminium 2 mm à fabriquer par le métallier
- * 2 mm aluminium sheet to made by metal constructor

Beschlageinbau
Montage des ferrures
Installation of fittings

Janisol Arte
Janisol Arte
Janisol Arte

2.0

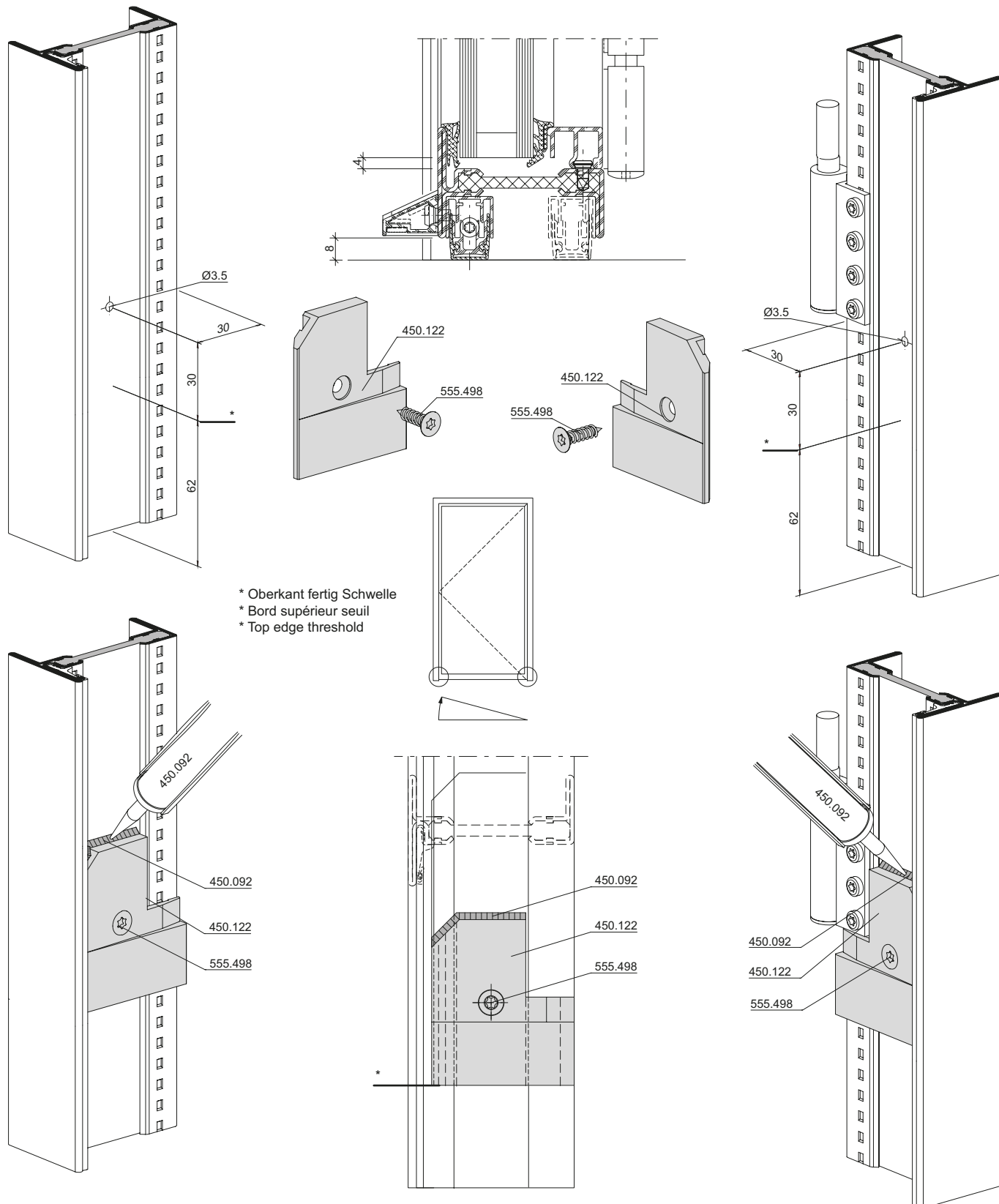


Fenstertüre	Porte-fenêtre	Window-door	
Einbau Dichtteil 450.122	Montage de la pièce d'étanchéité 450.122	Installation of seal element 450.122	250
Einbau 1 Senkdichtung 557.326 - 557.330 inkl. Dichtteil 450.122	Montage d'un joint seuil 557.326 - 557.330 avec pièce d'étanchéité 450.122	Installation of a drop gasket 557.326 - 557.330 including seal element 450.122	251
Einbau 2 Senkdichtungen 557.326 - 557.330 inkl. Dichtteil 450.122	Montage de 2 joints seuil 557.326 - 557.330 avec pièce d'étanchéité 450.122	Installation of two drop gaskets 557.326 - 557.330 including seal element 450.122	252
Konstruktionsbeispiel Bodenwanne unter Schwellenkonstruktion	Exemple de construction Caisson sous la construction du seuil	Design example Floor tray under threshold structure	253
Schwellenkonstruktion Fenstertüre mit 452.993 und Deckel 452.288	Construction de seuils porte-fenêtre avec 452.993 et couvercle 452.288	Threshold structure window doors with 452.993 and cover 452.288	254
Montage CNS Winkel 1 mm	Montage équerre CNS 1 mm	Mounting the CNS bracket 1 mm	256

Einbau Dichtteil 450.122 für
Fenstertüre einflügelig
Rahmen

Montage de la pièce d'étanchéité
450.122 pour porte-fenêtre à un
vantail
Cadre

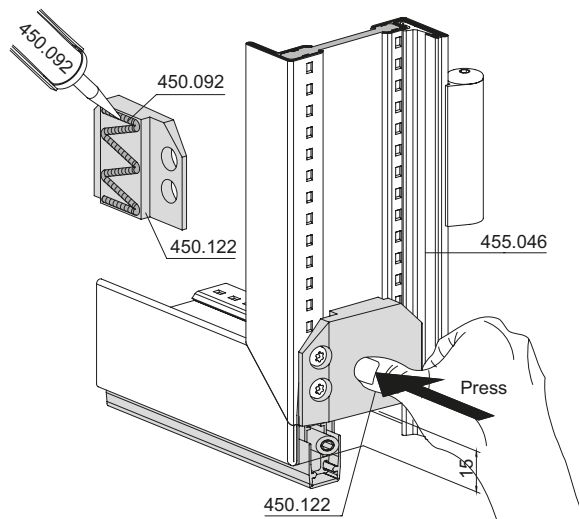
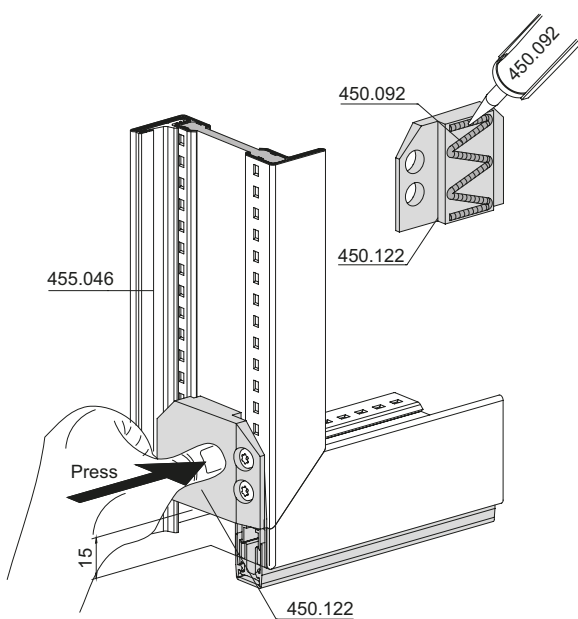
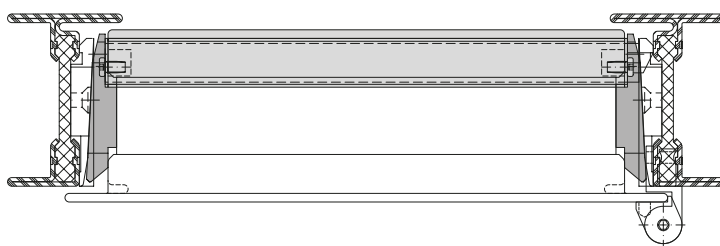
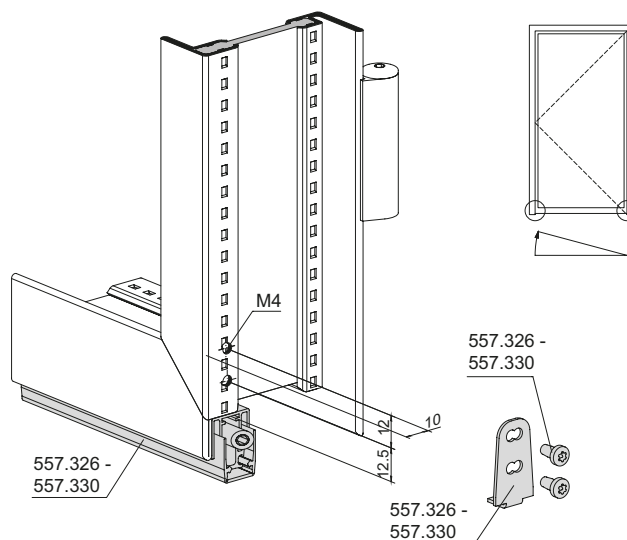
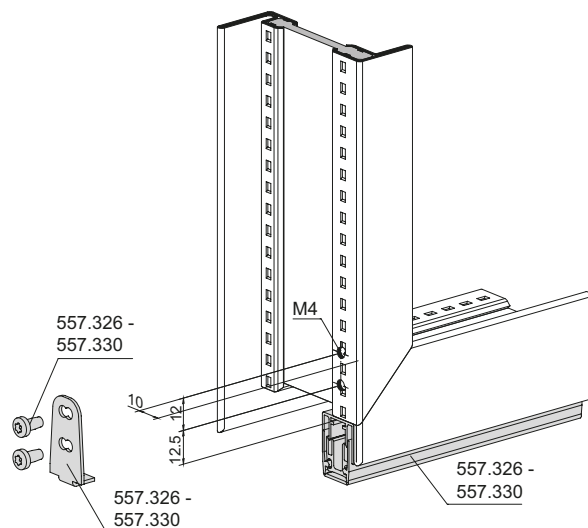
Installation of seal element 450.122
for single-leaf window doors
Frame



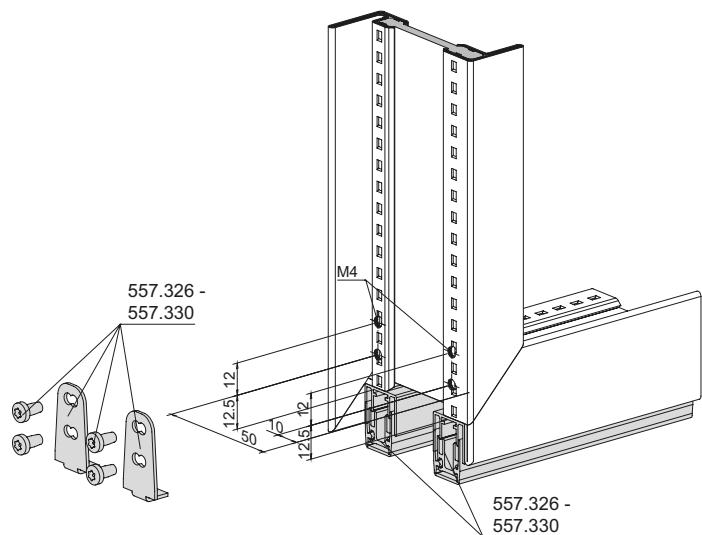
Einbau 1 Senkdichtung
557.326 - 557.330
 inkl. Dichtteil 450.122
Flügel

Montage d'un joint seuil
557.326 - 557.330 avec pièce
d'étanchéité 450.122
Vantail

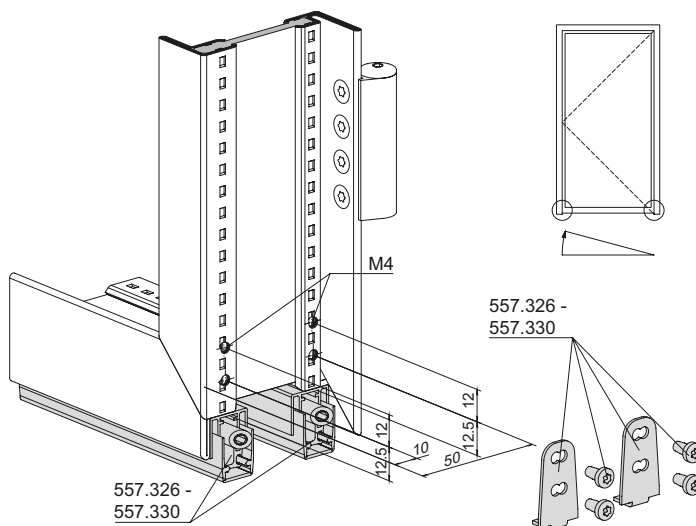
Installation of a drop gasket
557.326 - 557.330 including seal
element 450.122
Leaf



Einbau 2 Senkdichtungen
557.326 - 557.330
inkl. Dichtteil 450.122
Flügel

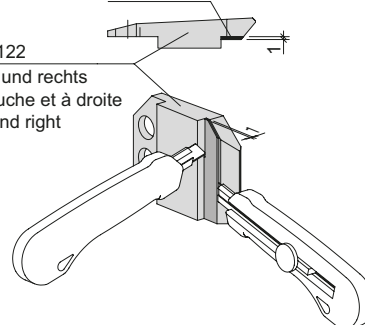


Montage de 2 joints seuil
557.326 - 557.330 avec pièce
d'étanchéité 450.122
Vantail



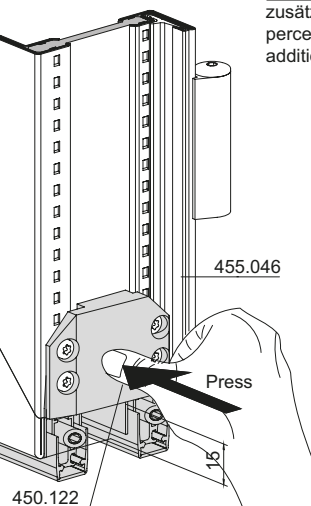
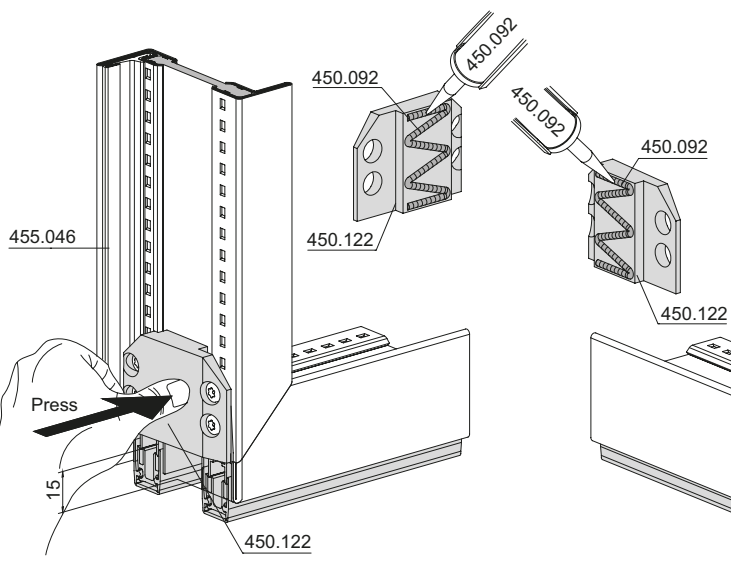
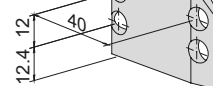
ausschneiden
 découper
 cut out

450.122
 links und rechts
 à gauche et à droite
 left and right



450.122
 links und rechts
 à gauche et à droite
 left and right

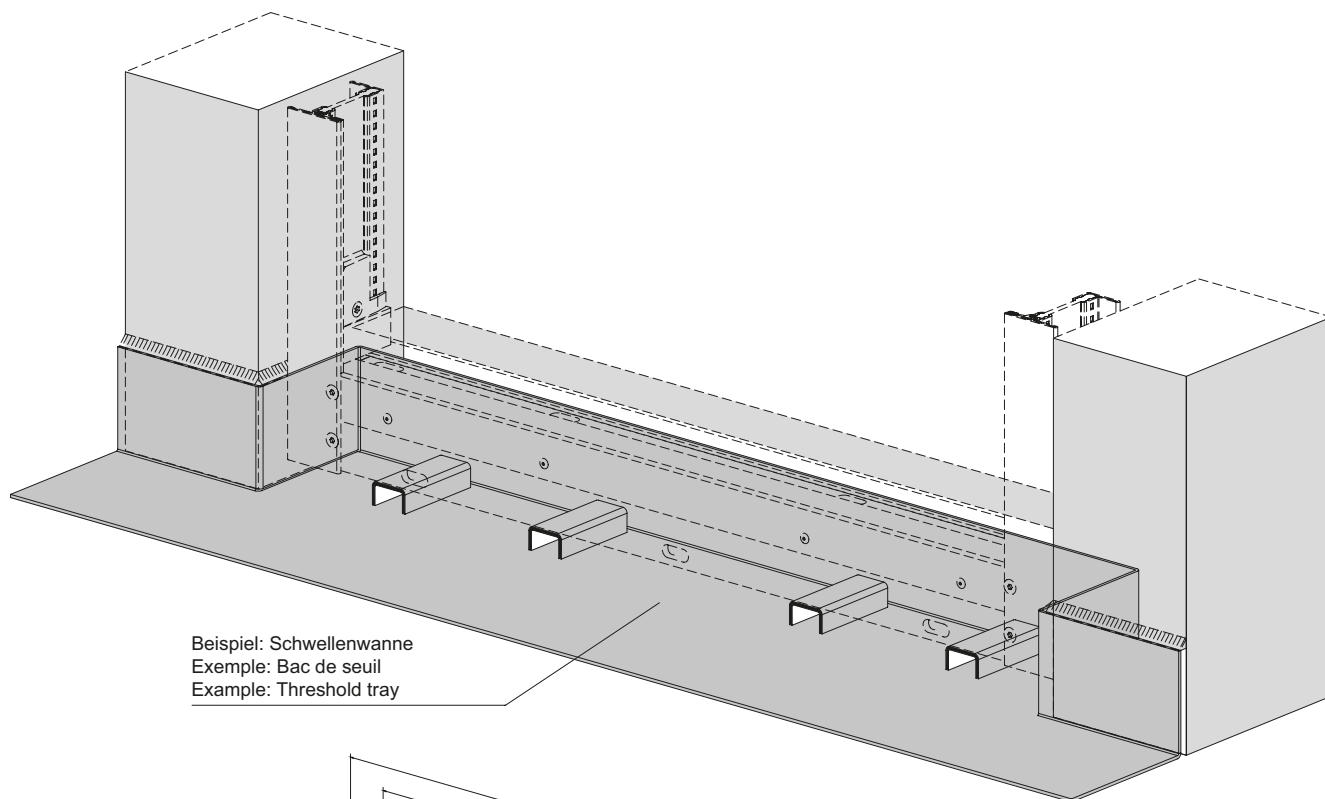
Ø8.5
 zusätzlich bohren
 percer en plus
 additional drilling



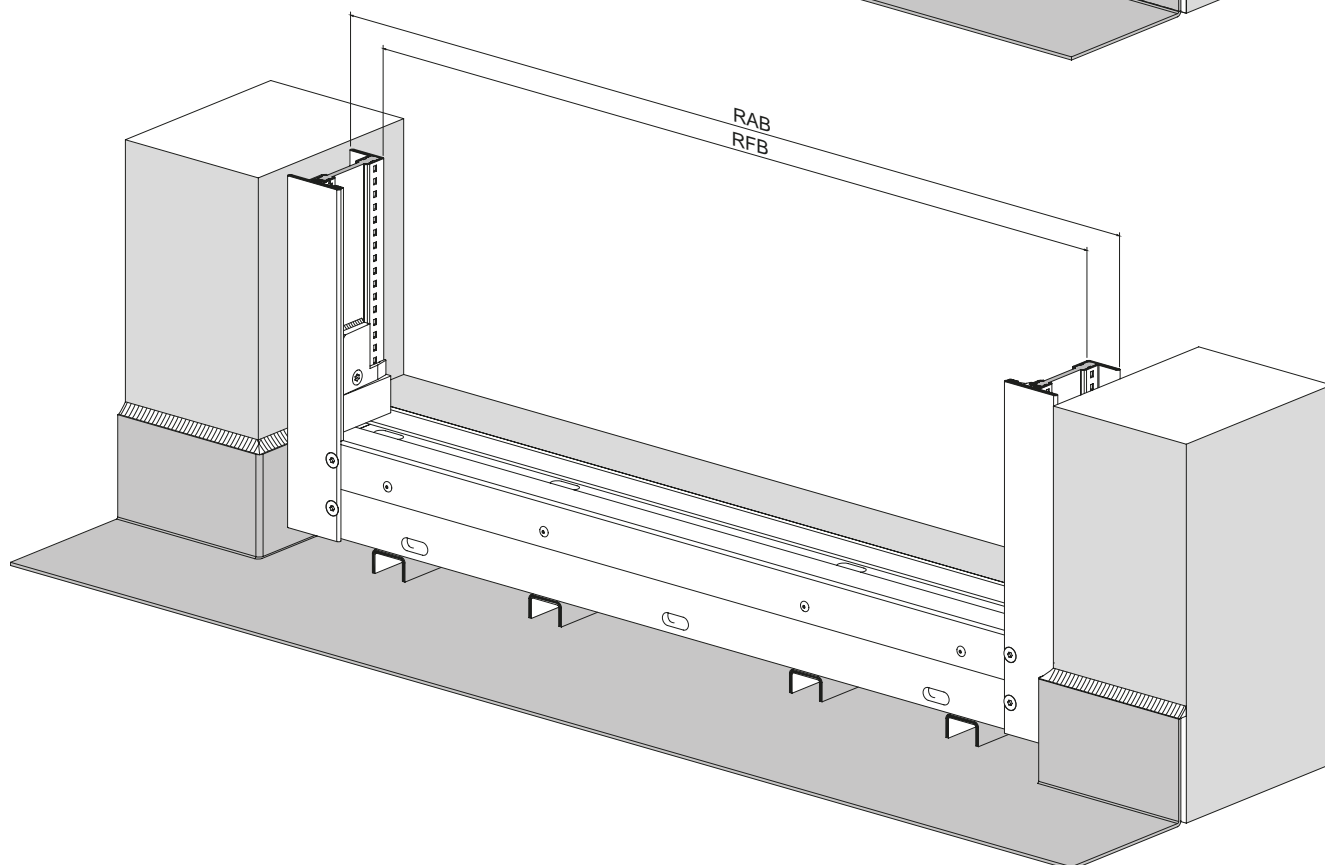
Konstruktionsbeispiel
Bodenwanne unter
Schwellenkonstruktion
Fenstertüre

Exemple de construction
Caisson sous la construction
du seuil
Porte-fenêtre

Design example
Floor tray under threshold structure
Window doors



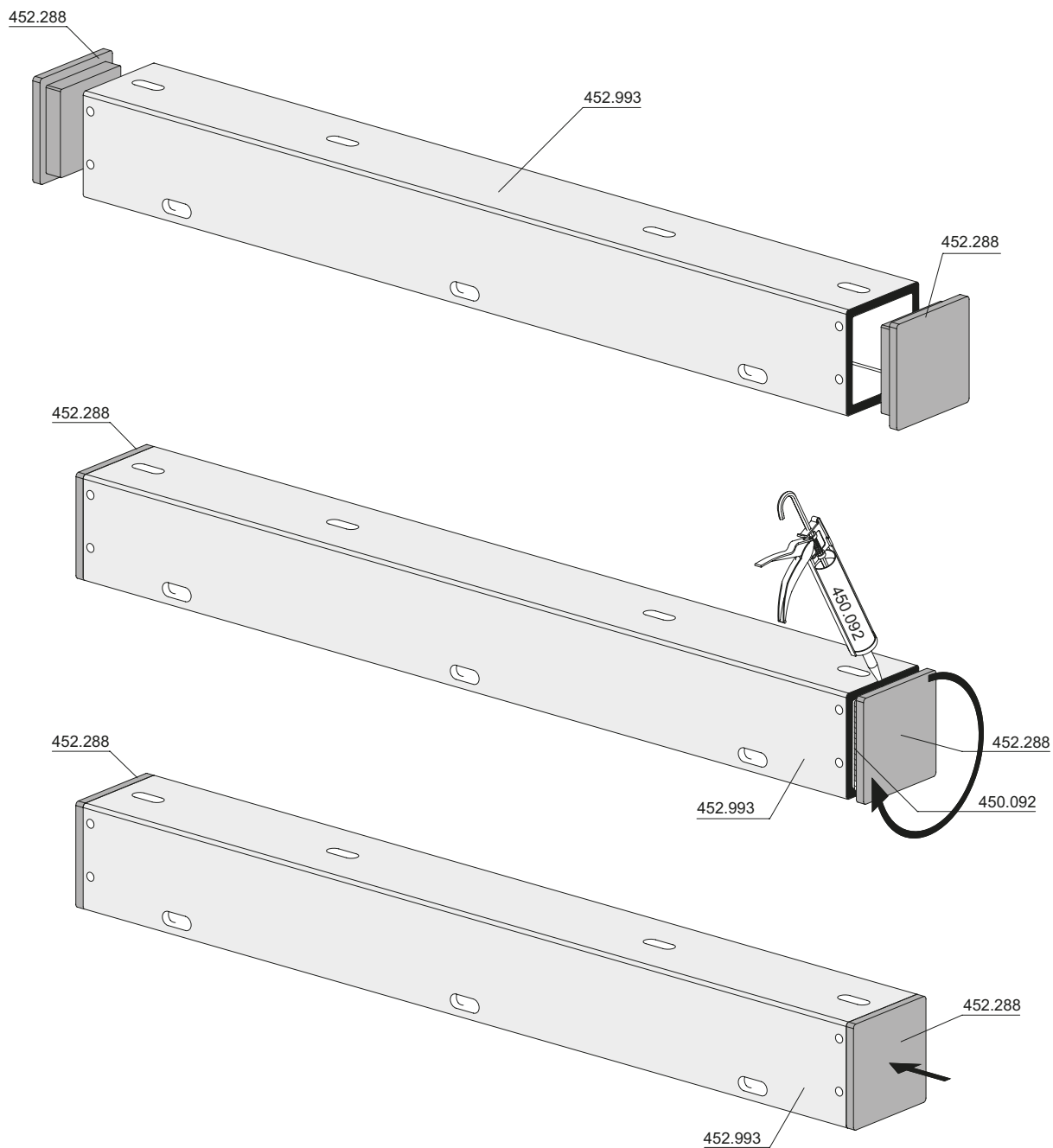
Beispiel: Schwellenwanne
Exemple: Bac de seuil
Example: Threshold tray



Schwellenkonstruktion
Anschlussprofil 452.993 und
Deckel 452.288

Construction de seuils
Profilé de raccordement 452.993 et
couvercle 452.288

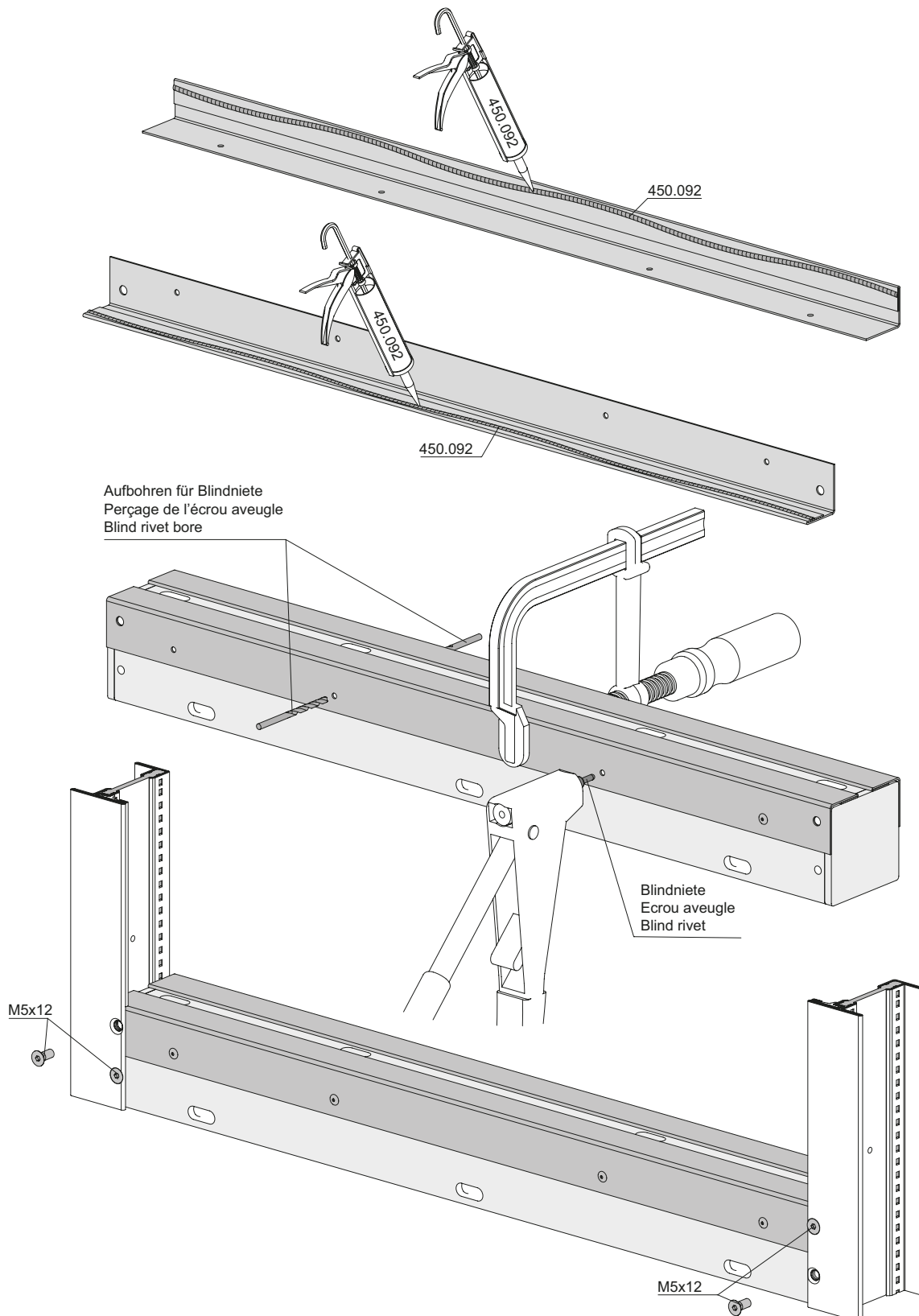
Threshold structure
Attachment profile 452.993 and
cover 452.288

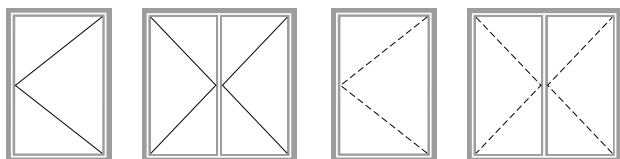


Montage CNS Winkel 1 mm

Montage équerre CNS 1 mm

Mounting the CNS bracket 1 mm



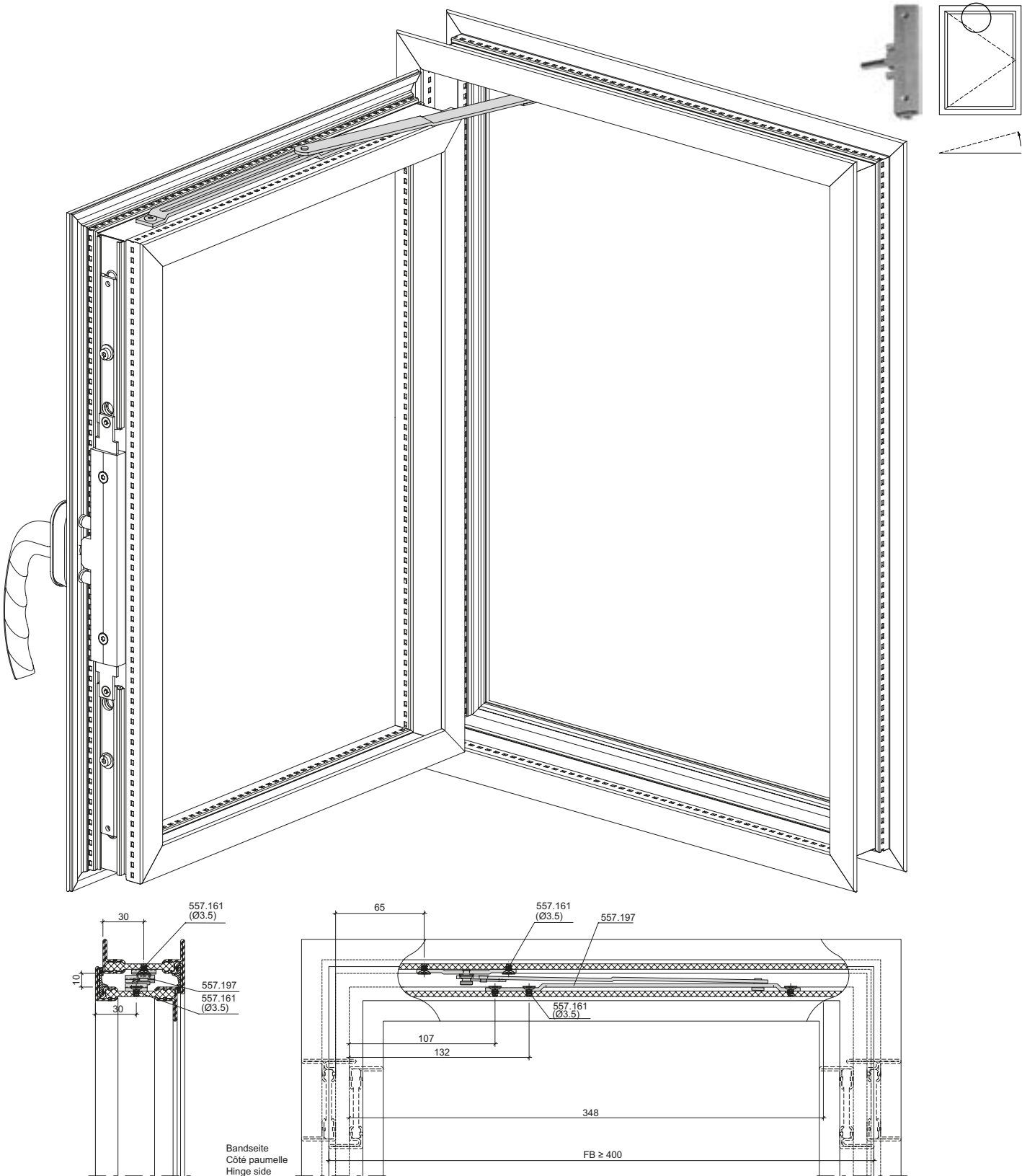


Sonderbeschläge Drehfenster	Ferrures spéciales fenêtre à la française	Special fittings for side-hung windows	
Öffnungsbegrenzer 557.197 Geriebe 557.279/557.280	Compas de limitation d'ouverture 557.197 Crémone de tringle 557.279/557.280	Opening limiter 557.197 Mechanism rod 557.279/557.280	258
Öffnungsbegrenzer 557.197 Geriebe 557.187	Compas de limitation d'ouverture 557.197 Crémone de tringle 557.187	Opening limiter 557.197 Mechanism rod 557.187	259

Öffnungsbegrenzer 557.197

Compas de limitation d'ouverture
557.197

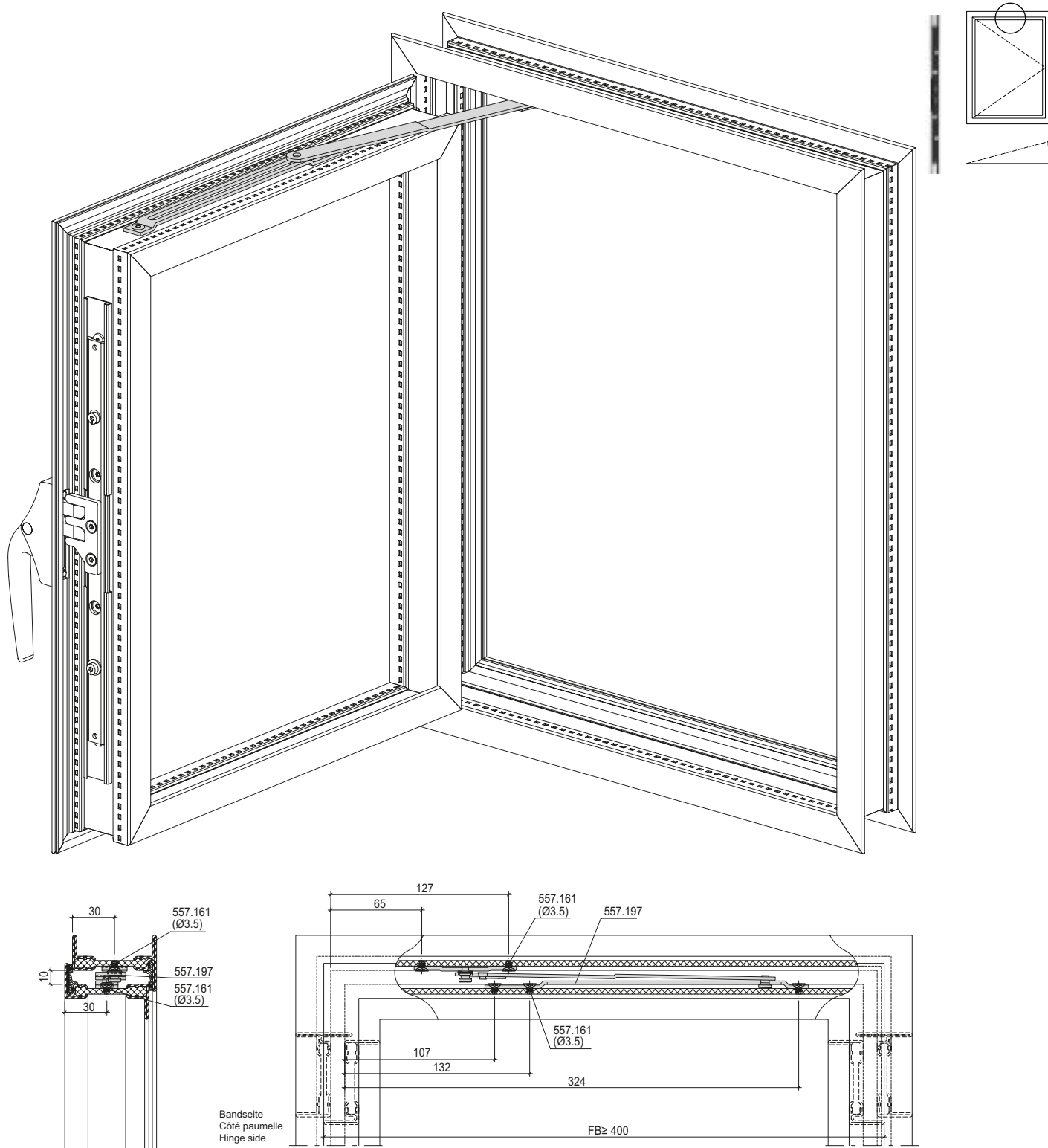
Opening limiter 557.197

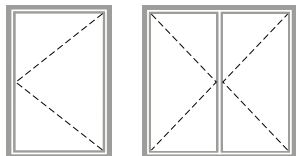


Öffnungsbegrenzer 557.197

Compas de limitation d'ouverture
557.197

Opening limiter 557.197





Aufgesetzter Beschlag

Ferrure plaquée

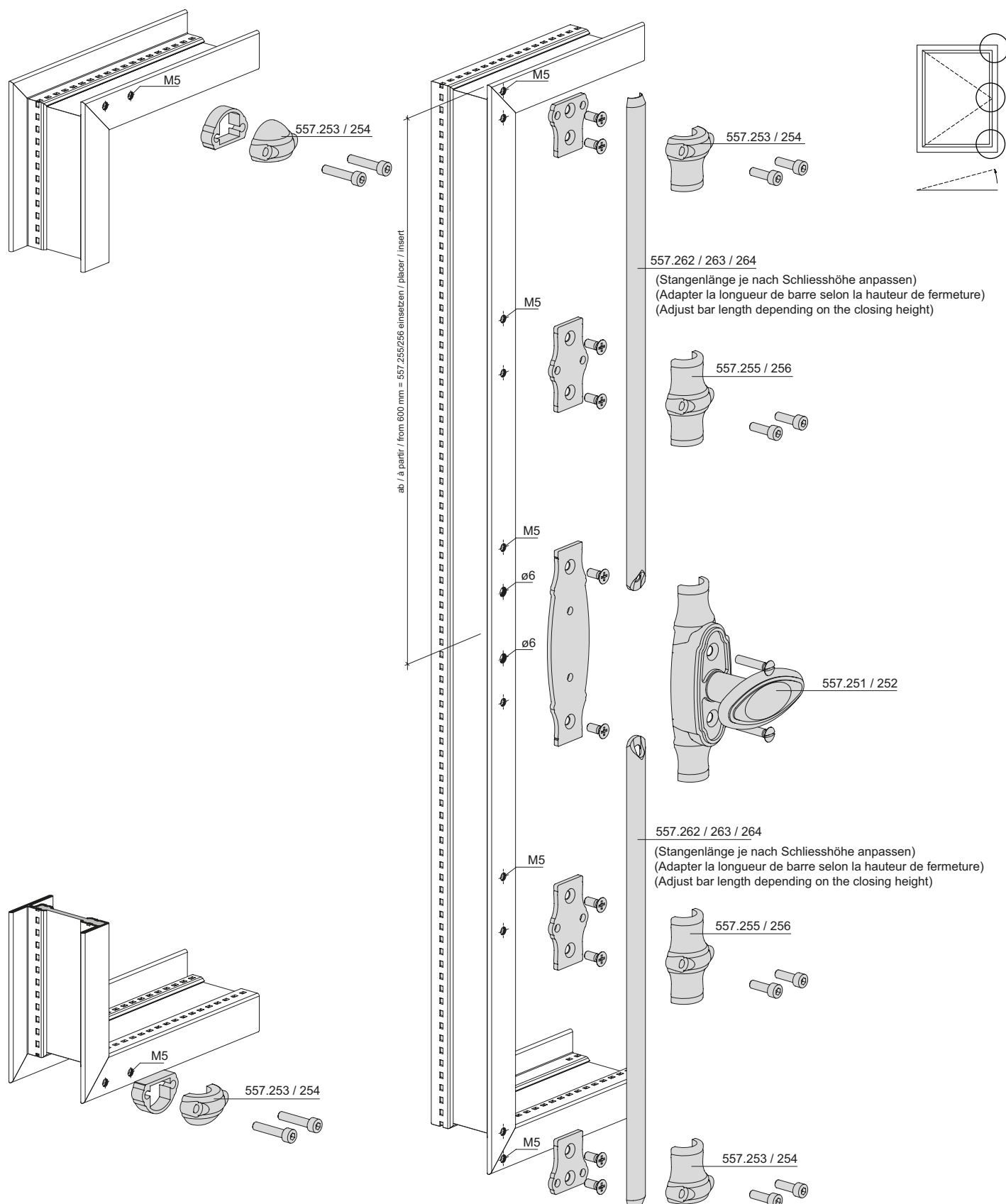
Surface-mounted fitting

Übersicht	Aperçu	Overview	261
Verschlusspunkt-Varianten	Variantes de point de fermeture	Locking point options	262
Bohrbild Dreholive 557.251/557.252	Schéma de perçage Bouton rotatif 557.251/557.252	Drilling pattern Olive handle 557.251/557.252	263
Bohrbild Mittelführung 557.255/557.256	Schéma de perçage Guide central 557.255/557.256	Drilling pattern Centre guide 557.255/557.256	264
Bohrbild Schliessstück 557.253/557.254	Schéma de perçage Pièce de fermeture 557.253/557.254	Drilling pattern Locking component 557.253/557.254	265
Bohrbild Schliessstück 557.259	Schéma de perçage Pièce de fermeture 557.259	Drilling pattern Locking component 557.259	266
Anordnung Anschweislasche 557.260	Disposition du languette à souder 557.260	Arrangement of weld-on fixing bracket 557.260	267
Anordnung Schliessstück 557.261	Disposition du pièce de fermeture 557.261	Arrangement of locking component 557.261	269
Bohrbild Stulpfenster Distanzstücke 557.257/557.258	Schéma de perçage Pièces intercalaire 557.257/557.258	Drilling pattern Spacer 557.257/557.258	270

Übersicht

Aperçu

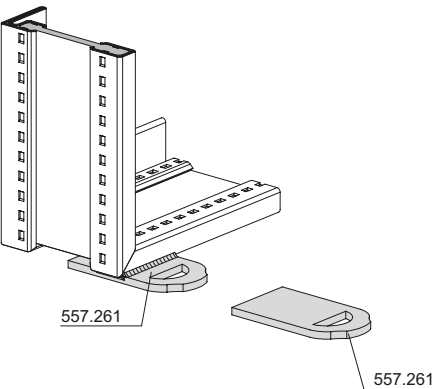
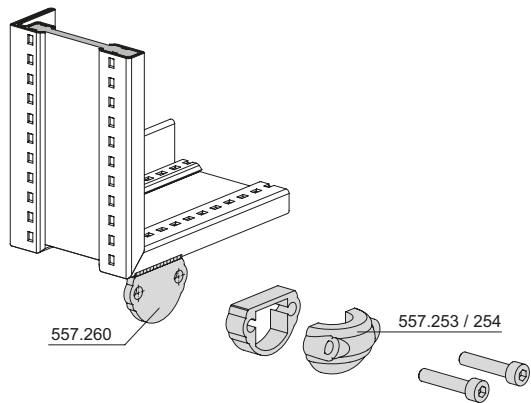
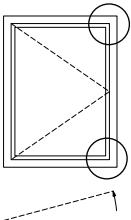
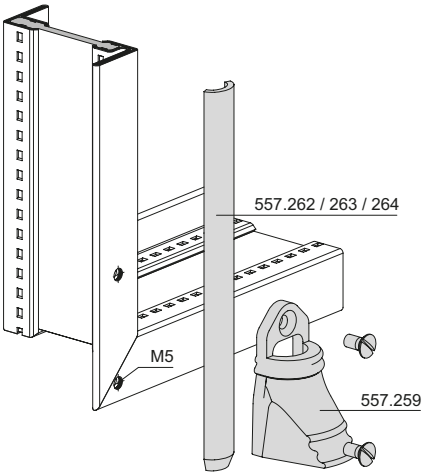
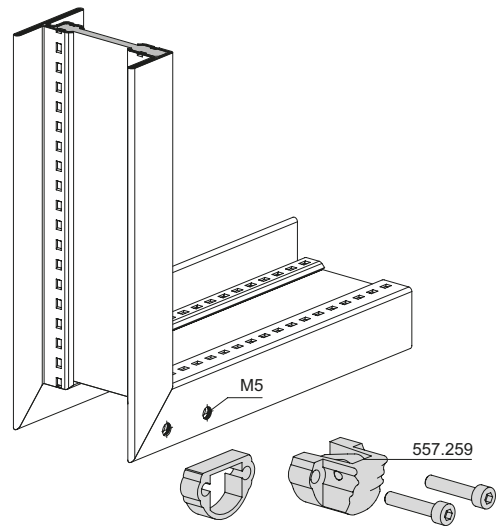
Overview



Verschlusspunkt-Varianten

Variantes de point de fermeture

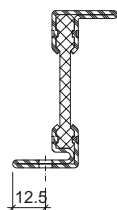
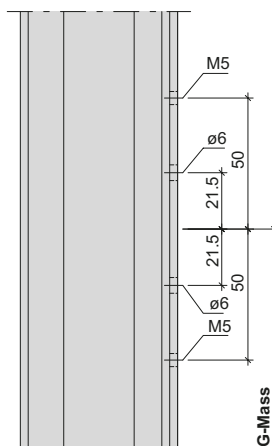
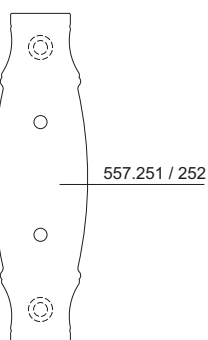
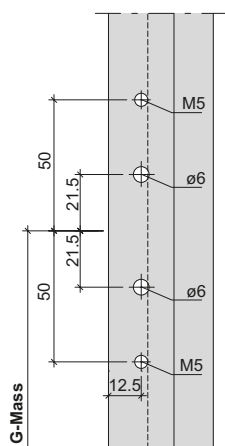
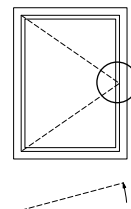
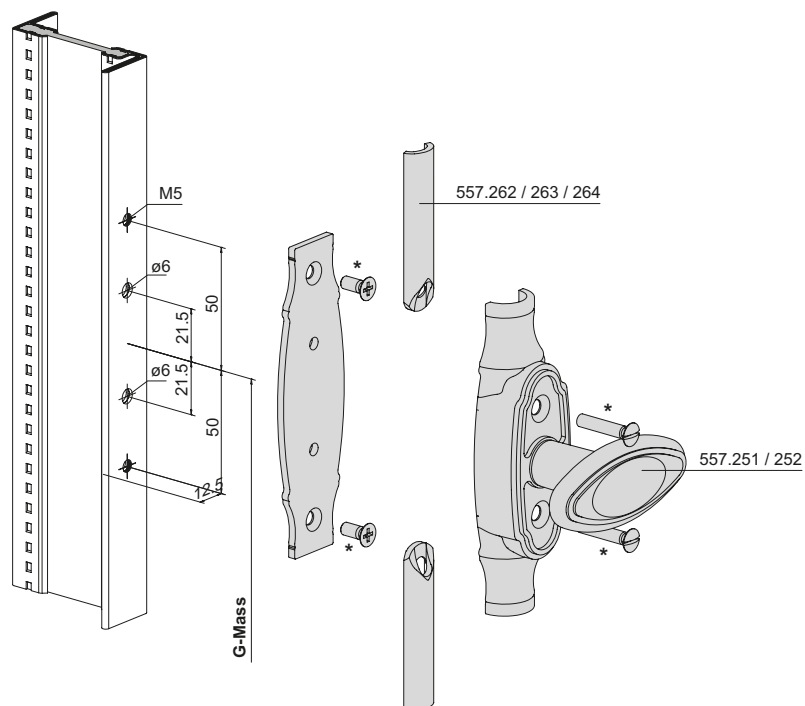
Locking point options



Bohrbild
Dreholive 557.251/557.252
Flügel

Schéma de perçage
Bouton rotatif 557.251/557.252
Vantail

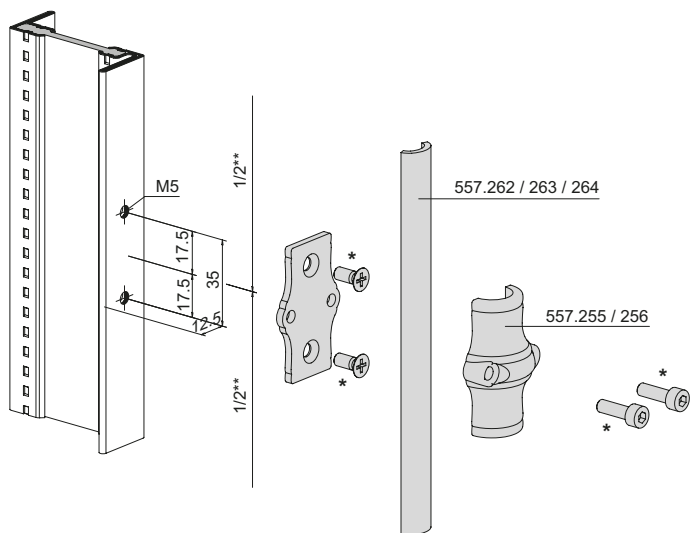
Drilling pattern
Olive handle 557.251/557.252
Sash



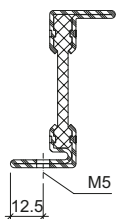
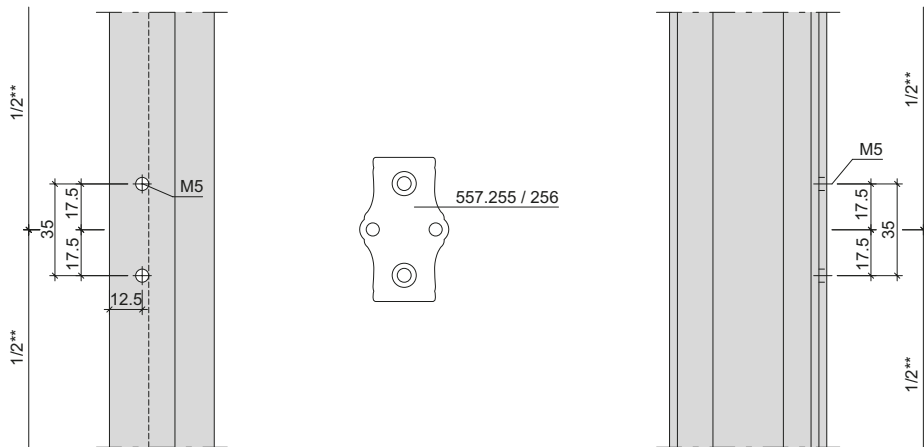
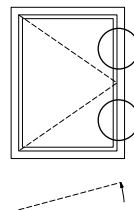
Bohrbild
Mittelführung 557.255/557.256
Flügel

Schéma de perçage
Guide central 557.255/557.256
Vantail

Drilling pattern
Centre guide 557.255/557.256
Sash



* Schraubenlänge kürzen
 * Écourter la vis
 * Shorten screw length

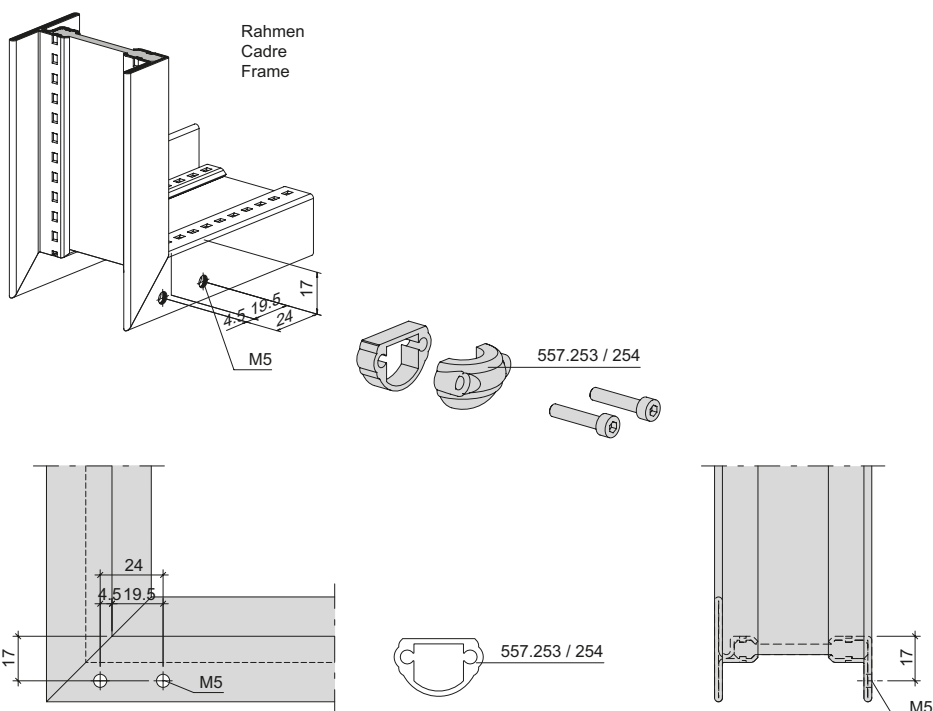
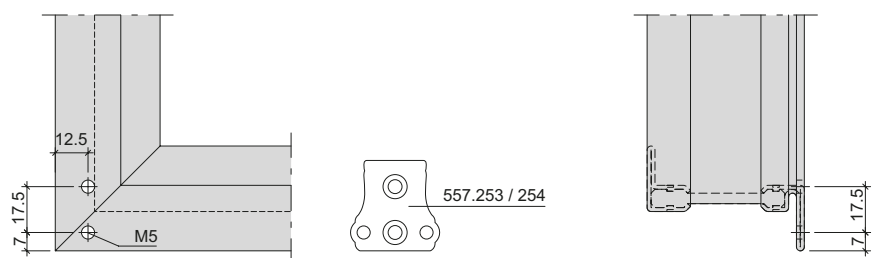
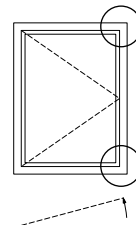
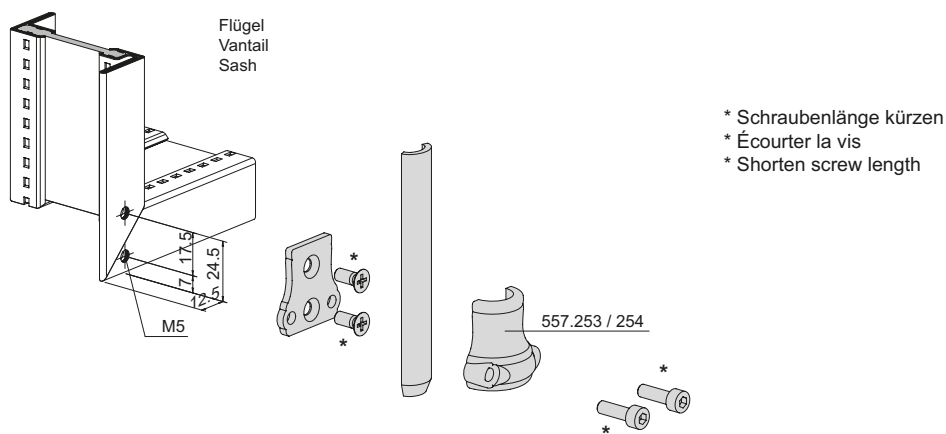


** Die genaue Position ist durch Metallbauer zu bestimmen
 ** La position exacte doit être définie par le métallier
 ** The exact position is to be determined by the metal fabricator

Bohrbild
Schliessstück 557.253/557.254

Schéma de perçage
Pièce de fermeture 557.253/557.254

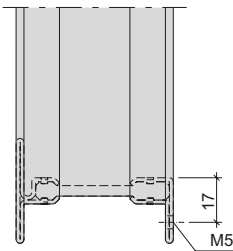
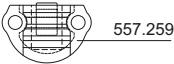
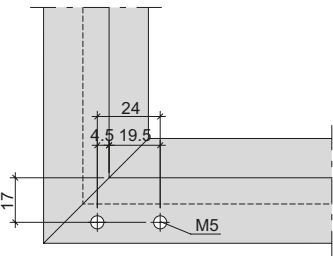
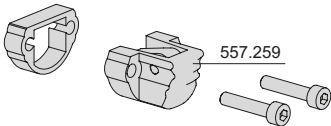
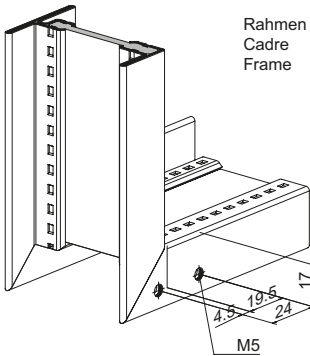
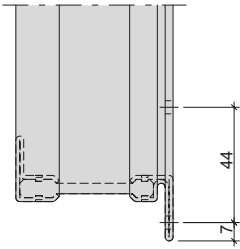
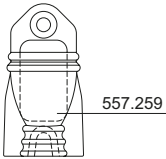
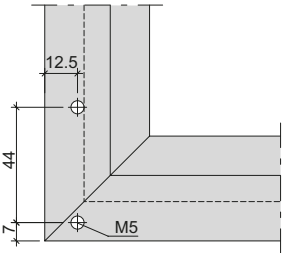
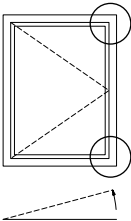
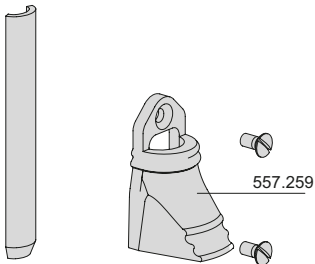
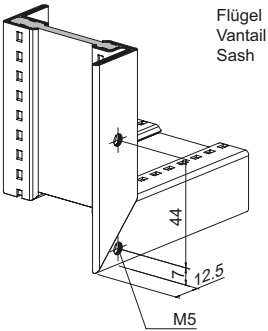
Drilling pattern
Locking component 557.253/557.254



Bohrbild
Schliessstück 557.259

Schéma de perçage
Pièce de fermeture 557.259

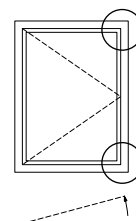
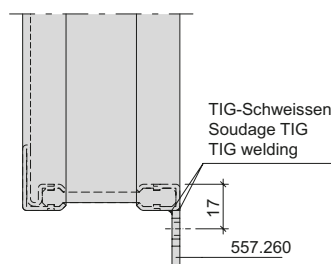
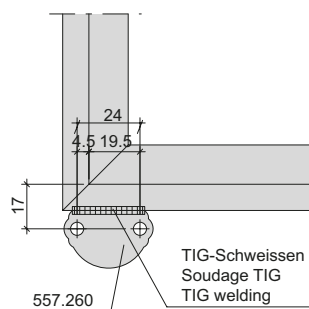
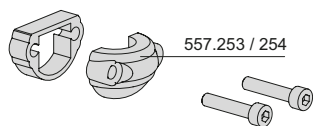
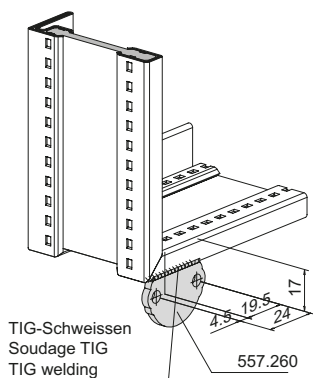
Drilling pattern
Locking component 557.259



Anordnung Anschweislasche
557.260
Rahmen

Disposition du languette à
souder 557.260
Cadre

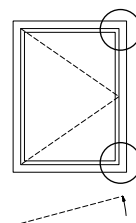
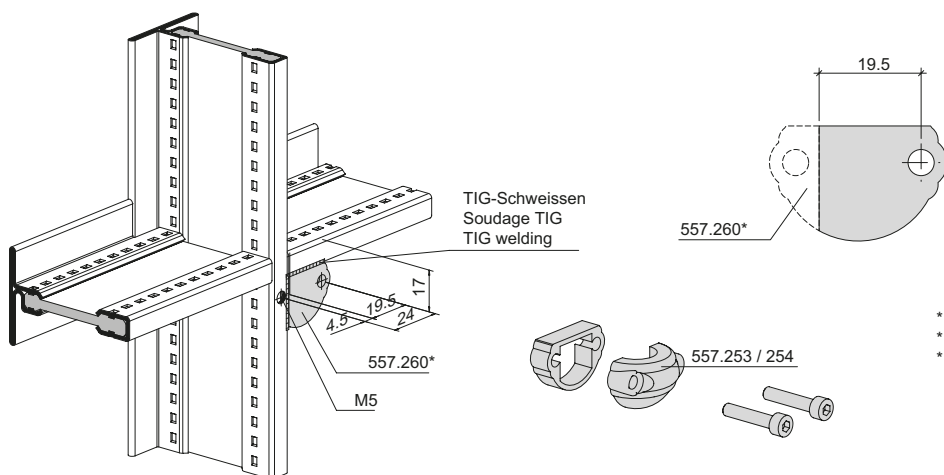
Arrangement of weld-on fixing
bracket 557.260
Frame



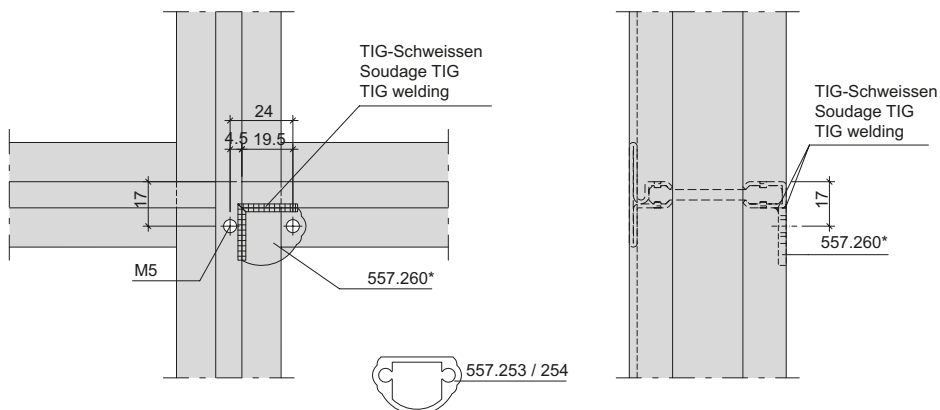
Anordnung Kreuzpunkt
Anschweislasche 557.260
Rahmen

Disposition du point d'intersection
Langnette à souder 557.260
Cadre

Arrangement of intersection
Weld-on fixing bracket 557.260
Frame



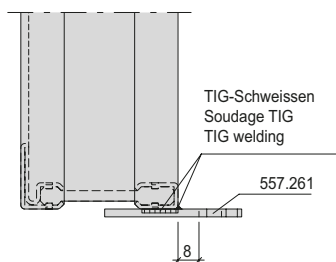
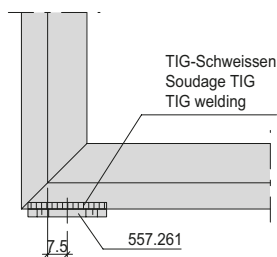
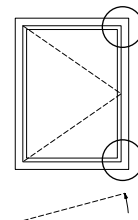
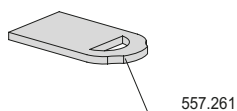
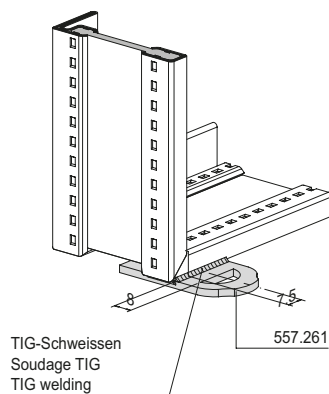
* Durch Metallbauer zu kürzen
 * Doit être écourté par le métallier
 * To be shortened by the metal fabricator



Anordnung Schliessstück 557.261
Rahmen

Disposition du
pièce de fermeture 557.261
Cadre

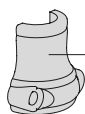
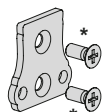
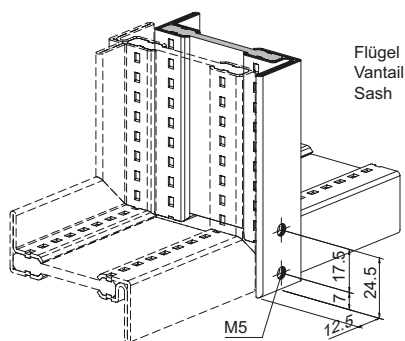
Arrangement of
locking component 557.261
Frame



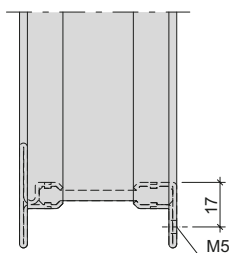
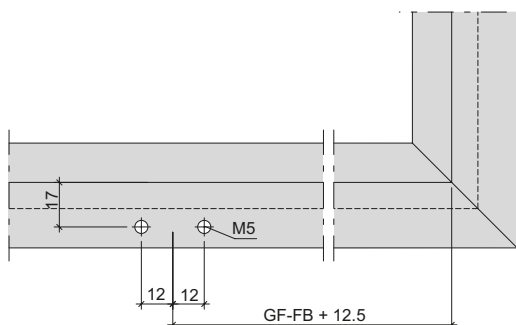
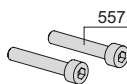
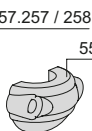
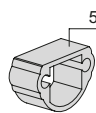
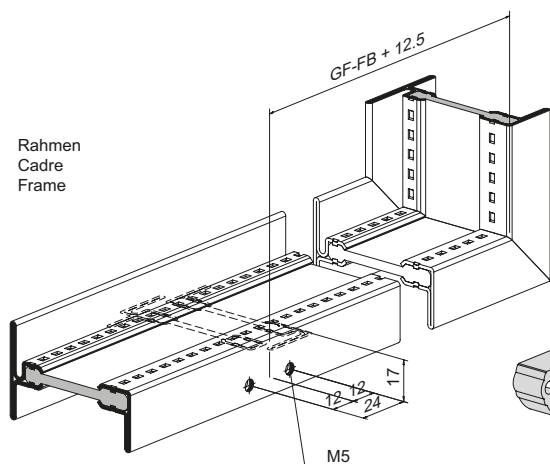
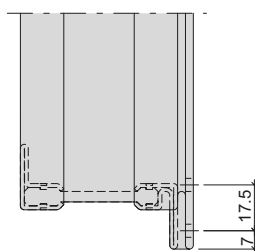
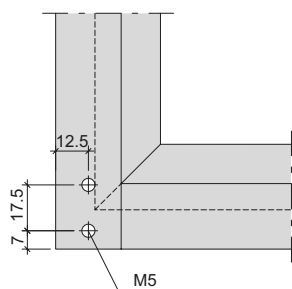
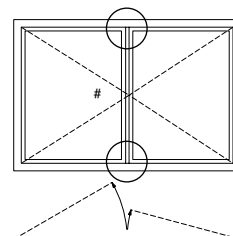
Bohrbild Stulpfenster
Distanzstücke 557.257/557.258

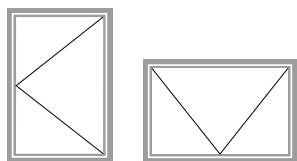
Schéma de perçage
Pièces intercalaire 557.257/557.258

Drilling pattern
Spacer 557.257/557.258



- * Schraubenlänge kürzen
- * Écourter la vis
- * Shorten screw length





Feststellstange

Barre de blocage

Peg stay

Feststellstange 557.271 - 557.273
(Drehfenster nach aussen öffnend)

Barre de blocage 557.271 - 557.273
(Fenêtre à la française ouvrant vers l'extérieur)

Peg stay 557.271 - 557.273
(Side-hung window)

272

Feststellstange 557.271 - 557.273
(Klappfenster nach aussen öffnend)

Barre de blocage 557.271 - 557.273
(Fenêtre basculante ouvrant vers l'extérieur)

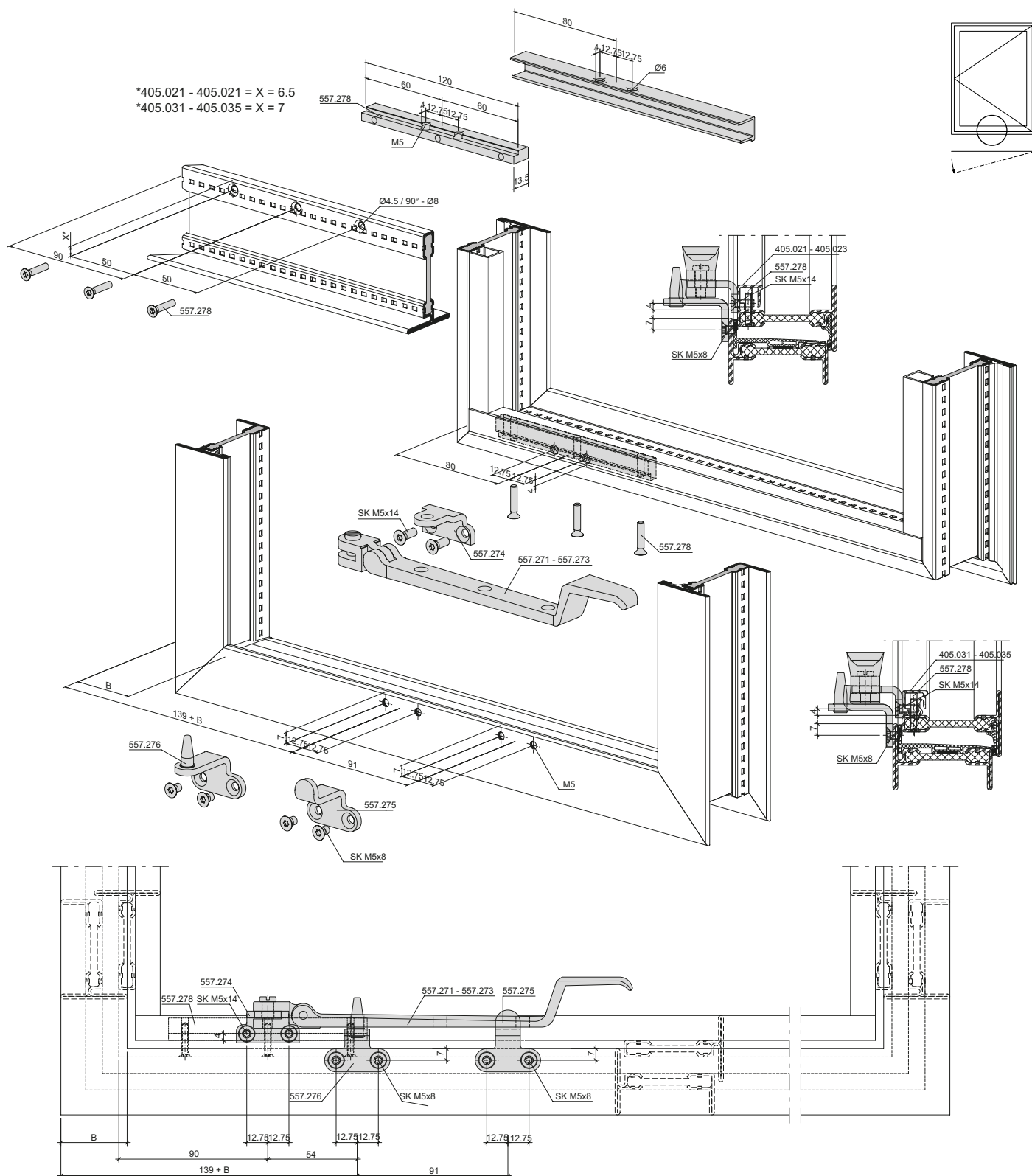
Peg stay 557.271 - 557.273
(Outward-opening top-hung window)

273

Feststellstange 557.271 - 557.273

Barre de blocage 557.271 - 557.273

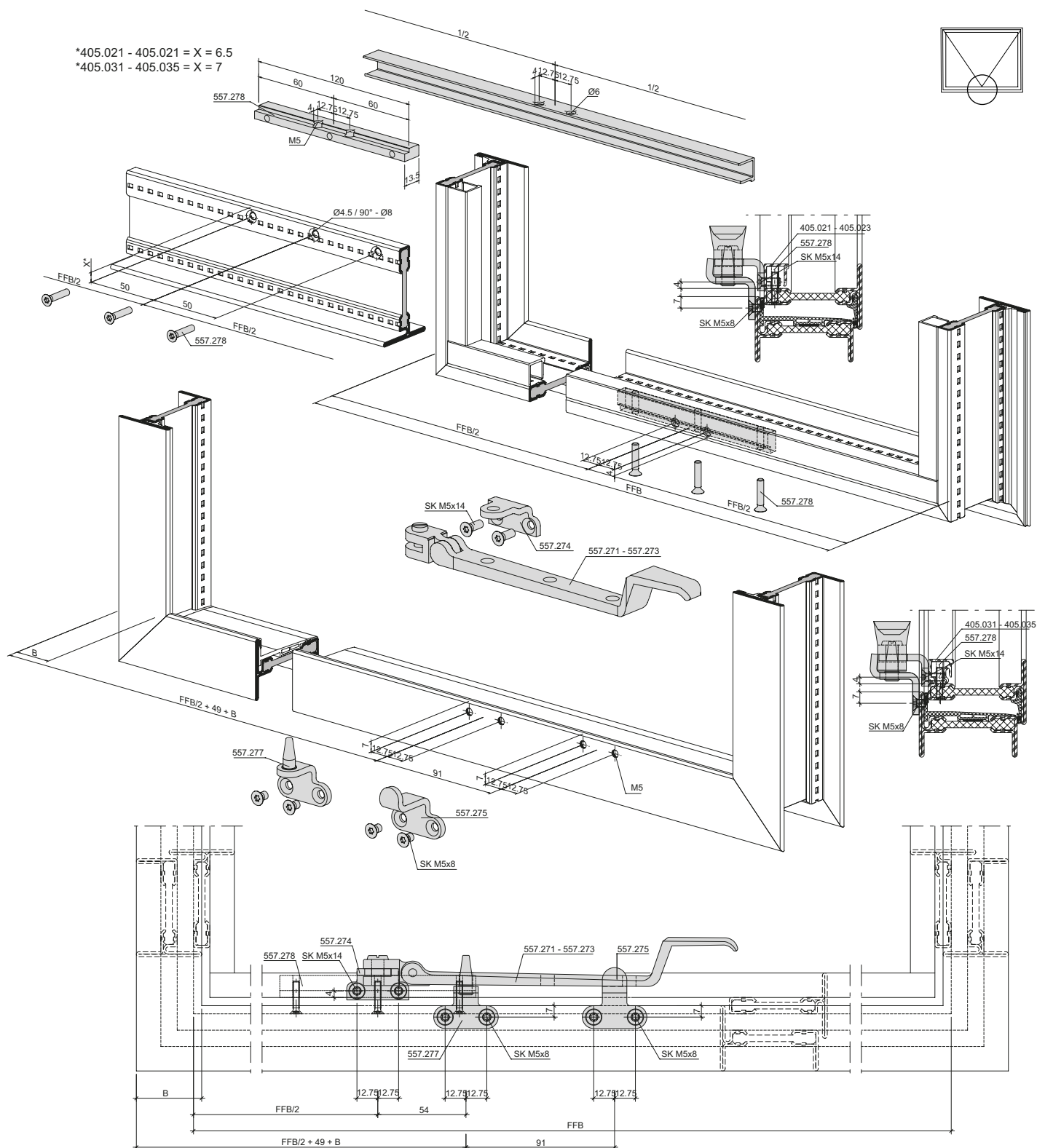
Peg stay 557.271 - 557.273

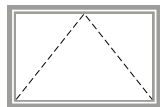


Feststellstange 557.271 - 557.273

Barre de blocage 557.271 - 557.273

Peg stay 557.271 - 557.273



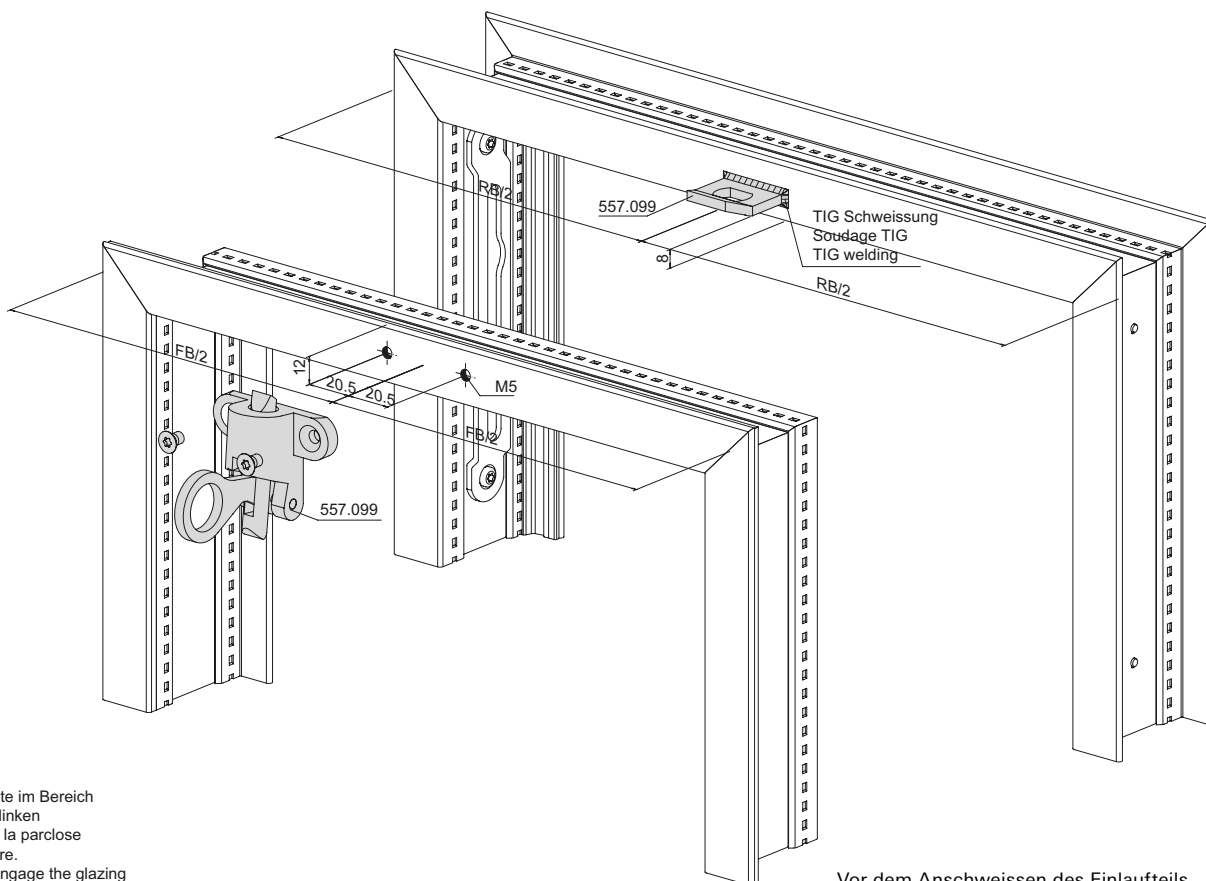
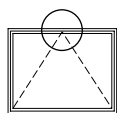


Kippfenster	Fenêtre à soufflet	Bottom-hung window	
Schnäpper 557.099	Loqueteau d'imposte 557.099	Catch 557.099	276
Öffnungsbegrenzer 557.174 Ab FFH 470 mm Öffnungswinkel 49°	Compas de limitation d'ouverture 557.174 A partir FFH de 470 mm Angle d'ouverture 49°	Opening limiter 557.174 From FFH 470 mm Opening angle 49°	277
Kippflügel-Schere 557.174 Ab FFH 370 mm	Compas pour vantail à soufflet 557.174 A partir FFH de 370 mm	Stay for bottom-hung sash 557.174 From FFH 370 mm	278
Öffnungsbegrenzer 557.180 Ab FFH 270 mm Öffnungswinkel 24°	Compas de limitation d'ouverture 557.180 A partir FFH de 270 mm Angle d'ouverture 24°	Opening limiter 557.180 From FFH 270 mm Opening angle 24°	279
Öffnungsbegrenzer 557.181 Ab FFH 270 mm Öffnungswinkel 63°	Compas de limitation d'ouverture 557.181 A partir FFH de 270 mm Angle d'ouverture 63°	Opening limiter 557.181 From FFH 270 mm Opening angle 63°	280
Kippflügel-Schere 557.197 Ab FFH 370 mm	Compas pour vantail à soufflet 557.197 A partir FFH de 370 mm	Stay for bottom-hung vent 557.197 From FFH 370 mm	281
Öffnungsbegrenzer 557.197 Ab FFH 470 mm Öffnungswinkel 49°	Compas de limitation d'ouverture 557.197 A partir FFH de 470 mm Angle d'ouverture 49°	Opening limiter 557.197 From FFH 470 mm Opening angle 49°	282
Aushängen Öffnungsbegrenzer und Kippschere 557.180 / 557.181 / 557.197 / 557.174	Décrochage du compas de limitation d'ouverture et du compas d'imposte 557.180 / 557.181 / 557.197 / 557.174	Unhinging the opening limiter and tilt scissors 557.180 / 557.181 / 557.197 / 557.174	283
Kettenantrieb 550.697 Montage auf Blendrahmen	Entraînement à chaîne 550.697 Montage sur cadre dormant	Chain drive 550.697 Installation on outer frame	284
Kettenantrieb 550.697 Montage auf Flügelrahmen	Entraînement à chaîne 550.697 Montage sur cadre de vantail	Chain drive 550.697 Installation on sash frame	285
Flügelgrößen mit Tandem-Antrieb	Tailles de vantail avec entraînement tandem	Leaf sizes with tandem drive	286
Kabelübergang 550.698	Passage de câble 550.698	Cable link connector 550.698	287
Kabelübergang 550.971 für Gläser mit Alarmspinne	Passage de câble 550.971 pour les vitrages avec alarme intégrée	Cable transition 550.971 for glass panes with alarm system	288
Oberlichtöffner F200	Ferrure d'imposte F200	Top light opener F200	290

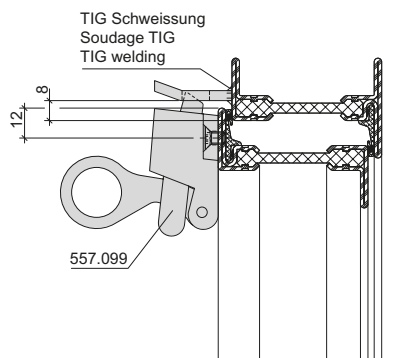
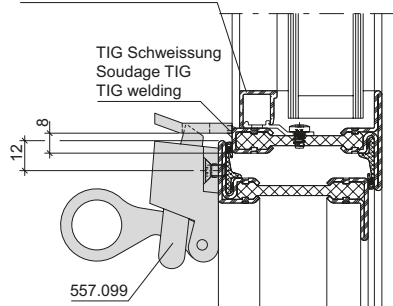
Schnäpper 557.099

Loqueteau d'imposte 557.099

Catch 557.099



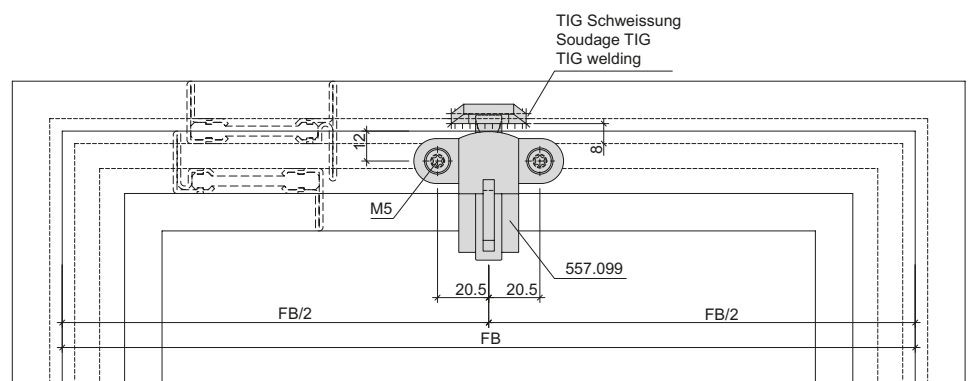
Bei Bedarf die Glasleiste im Bereich der Schweißung ausklinken
 Si nécessaire, entailler la parclose dans la zone de soudure.
 Where necessary, disengage the glazing bead in the area around the weld.



Vor dem Anschweißen des Einlaufteils den Schnäpper 557.099 sowie ca. 20 cm Dichtung 455.046 montieren um die genaue Lage zu definieren.

Avant de souder la gâche, monter le loqueteau 557.099 ainsi qu'env. 20 cm de joint 455.046 pour définir l'emplacement exact.

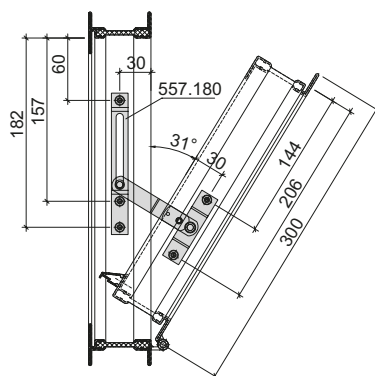
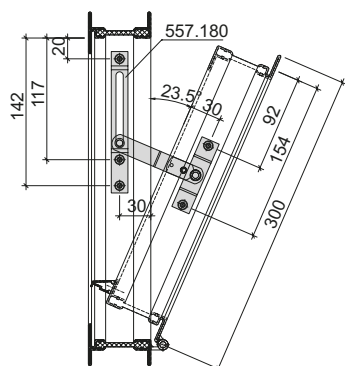
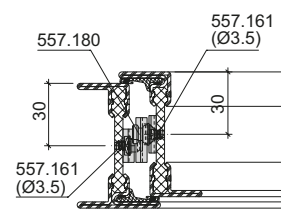
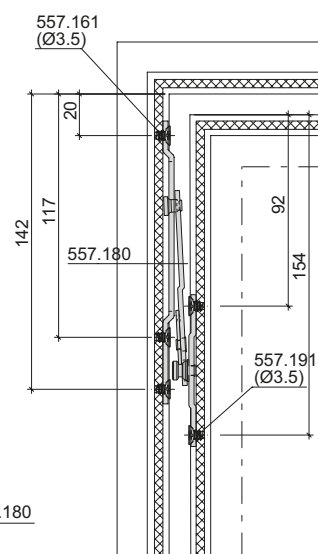
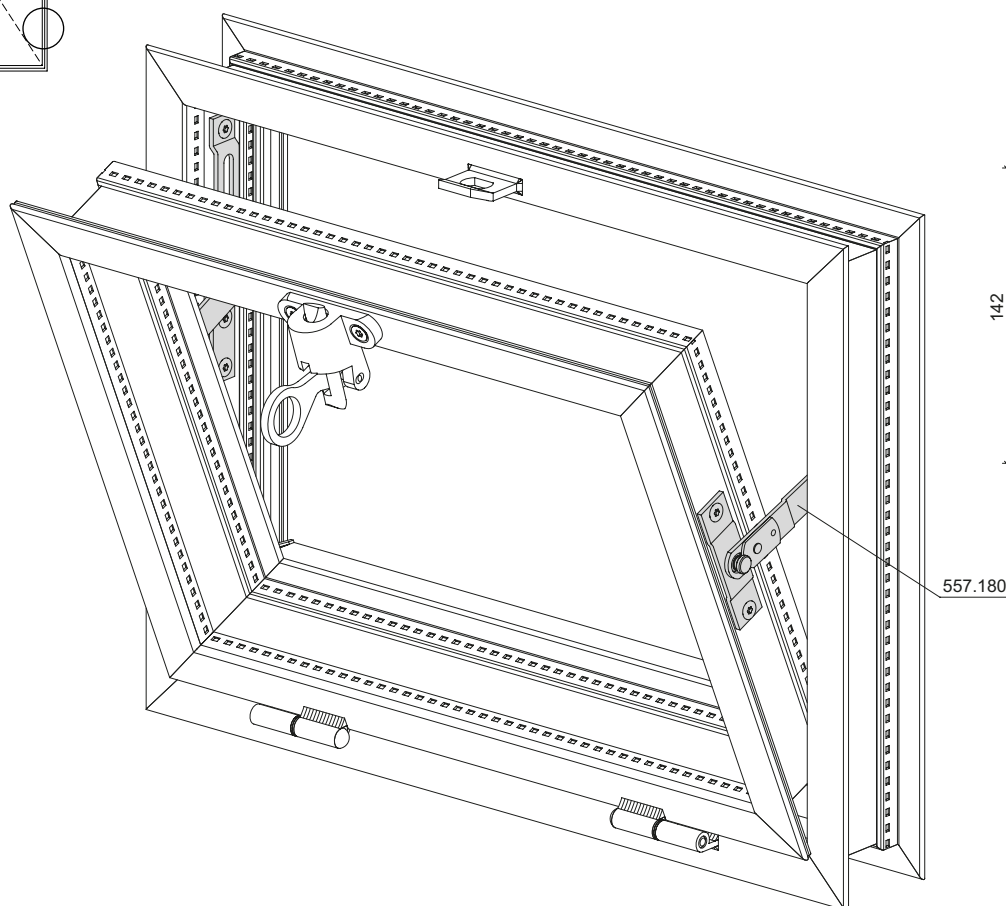
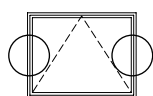
Before welding on the inlet part, install catch 557.099 and approx. 20 cm of seal 455.046 to define the exact position.



Öffnungsbegrenzer 557.180
Ab FFH 270 mm

Compas de limitation d'ouverture
557.180
A partir FFH de 270 mm

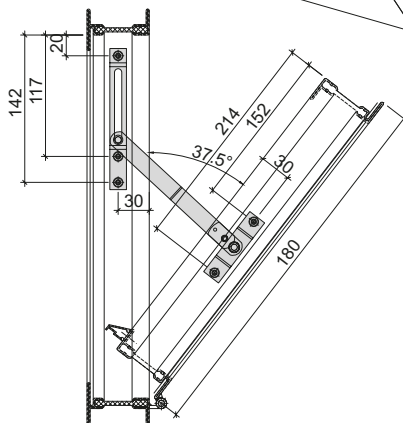
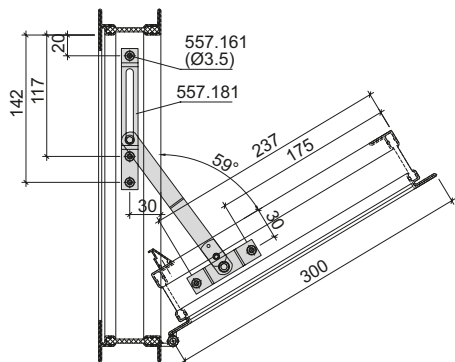
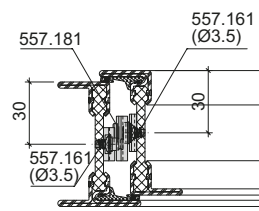
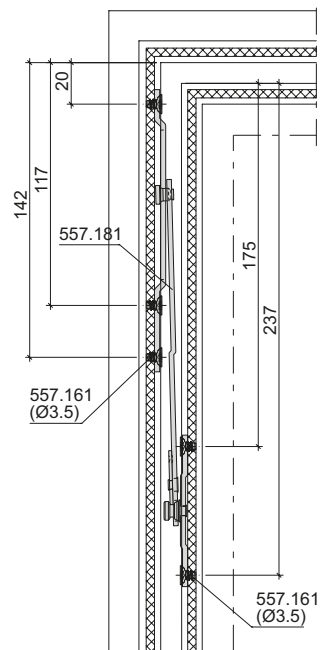
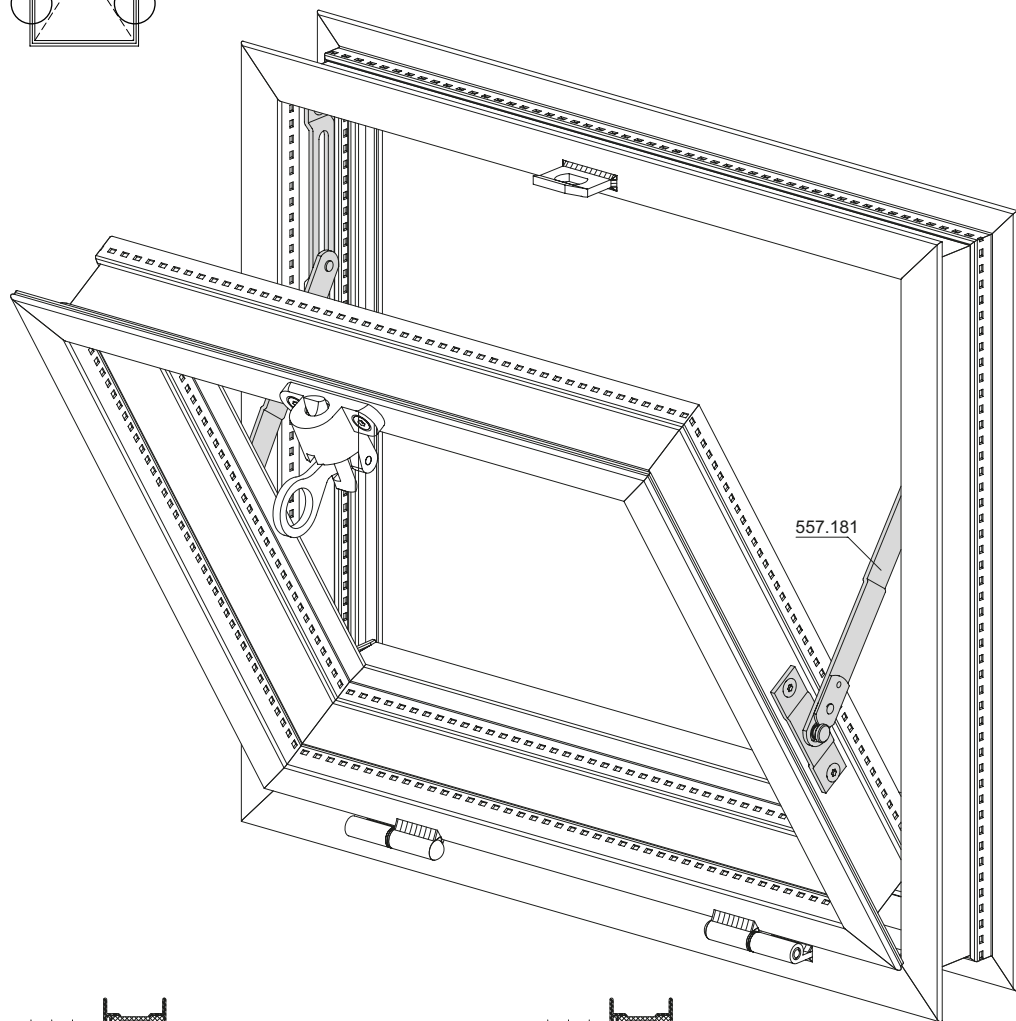
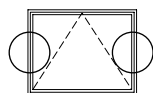
Opening limiter 557.180
From FFH 270 mm



Öffnungsbegrenzer 557.181
Ab FFH 270 mm

Compas de limitation d'ouverture
557.181
A partir FFH de 270 mm

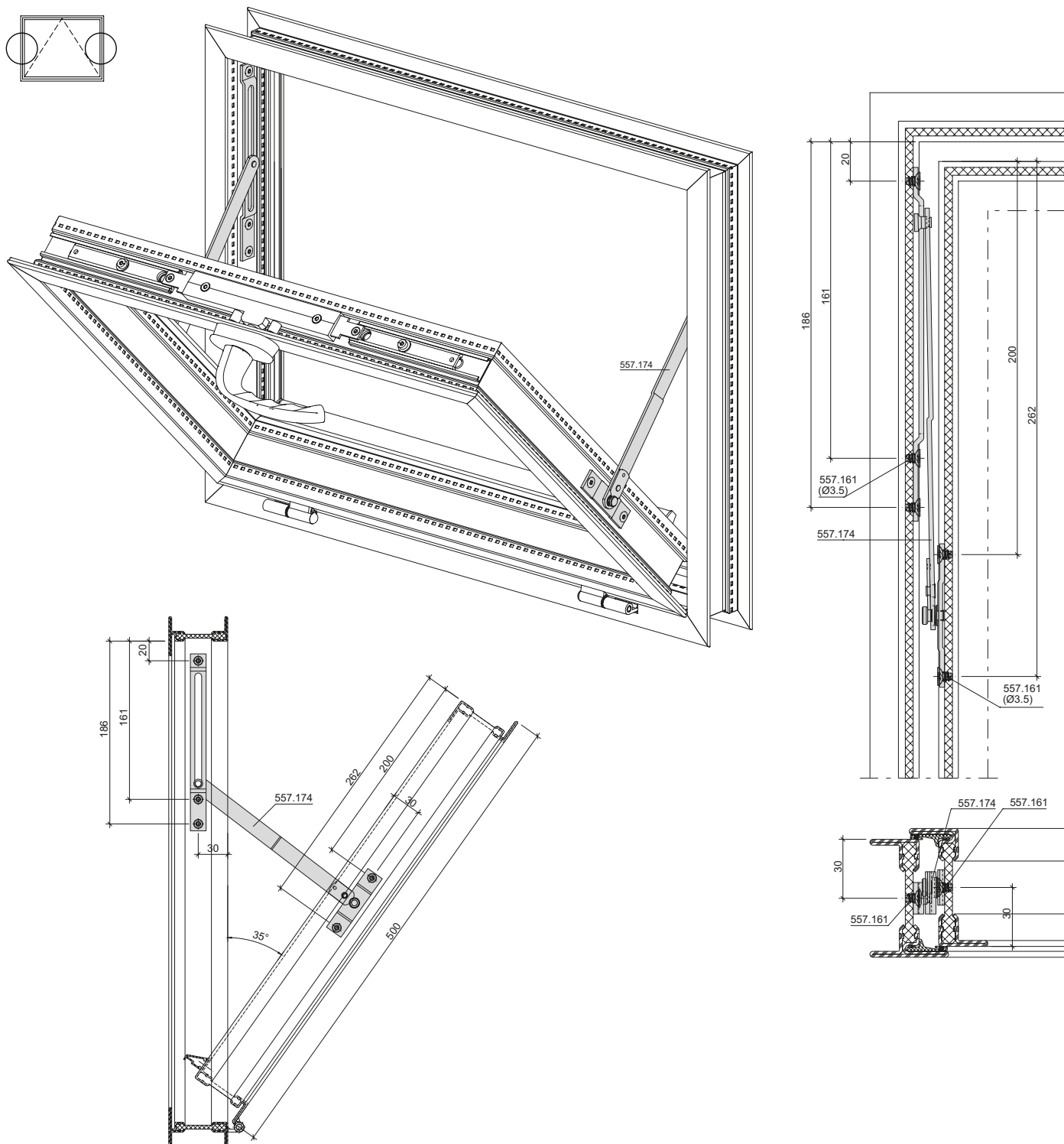
Opening limiter 557.181
From FFH 270 mm



Öffnungsbegrenzer 557.174
Ab FFH 470 mm

Compas de limitation d'ouverture
557.174
A partir FFH de 470 mm

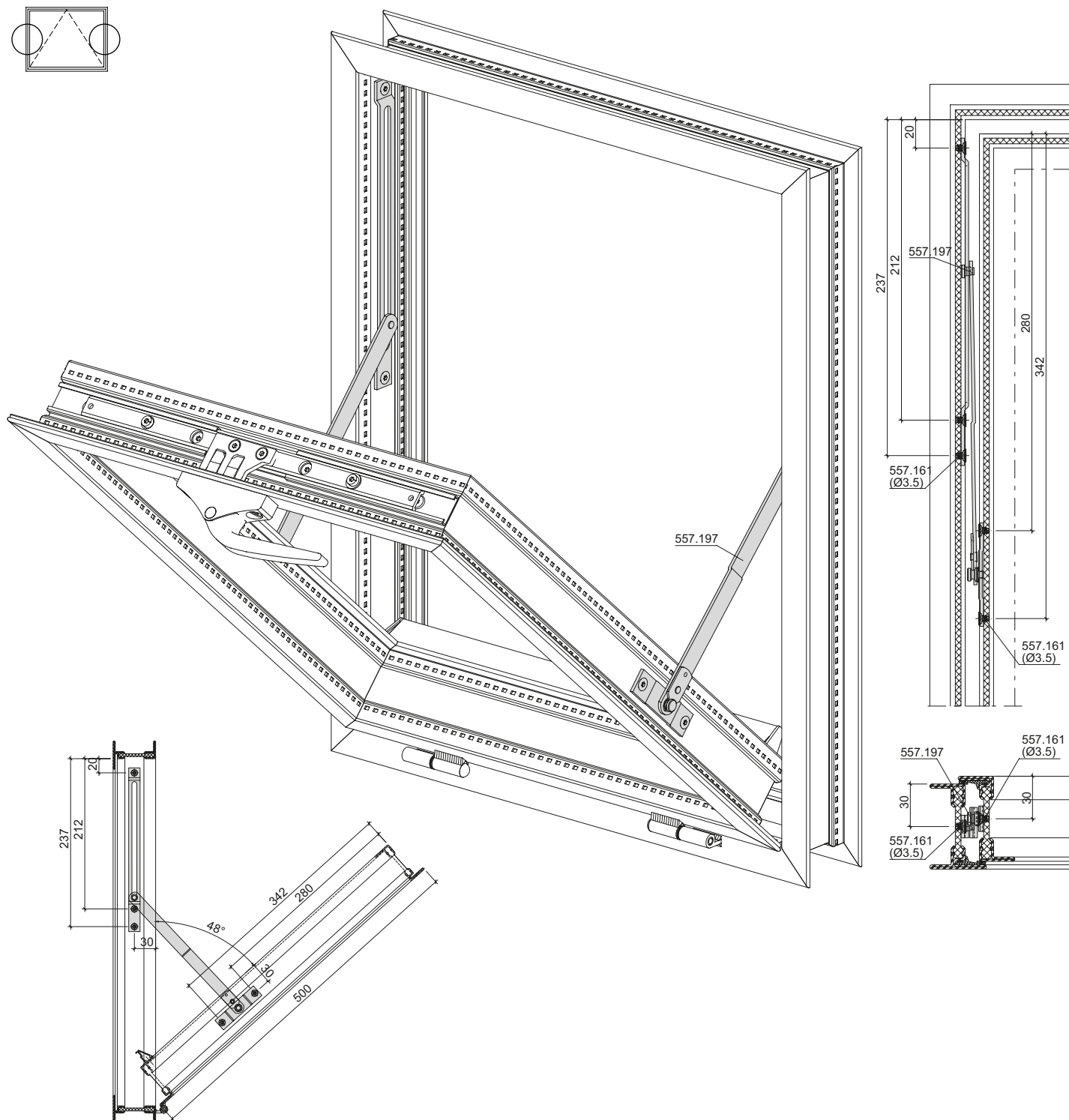
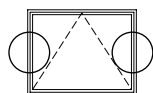
Opening limiter 557.174
From FFH 470 mm



Öffnungsbegrenzer 557.197
Ab FFH 470 mm

Compas de limitation d'ouverture
557.197
A partir FFH de 470 mm

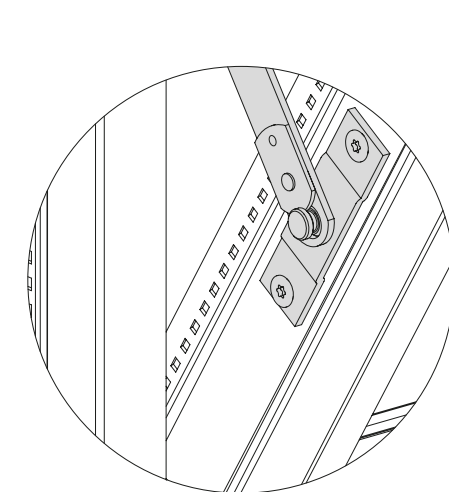
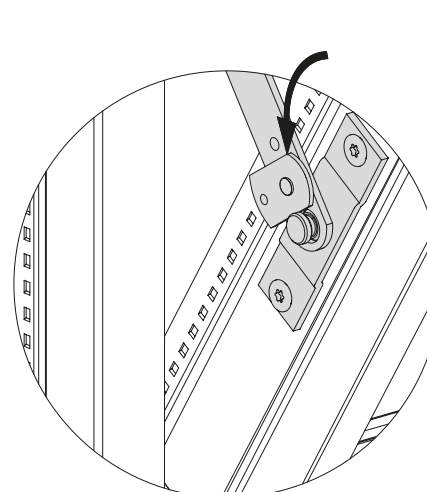
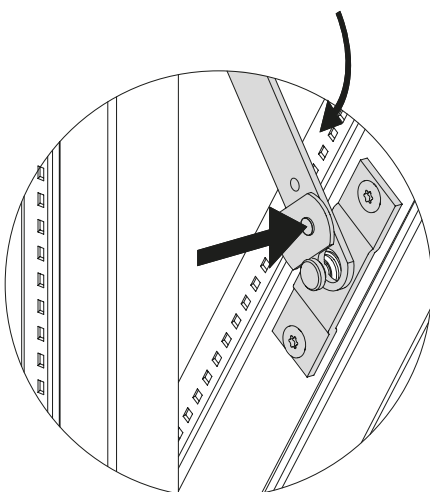
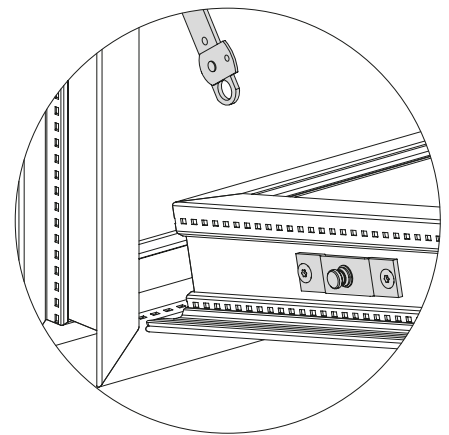
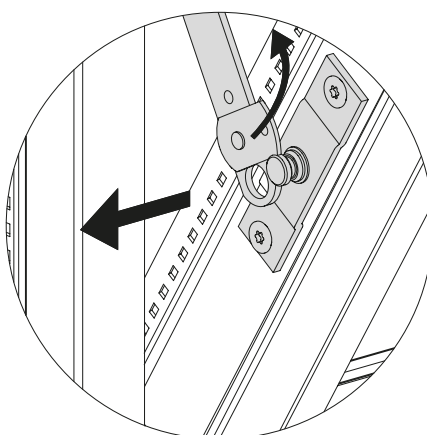
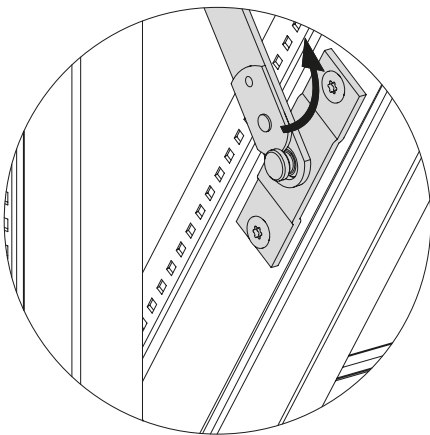
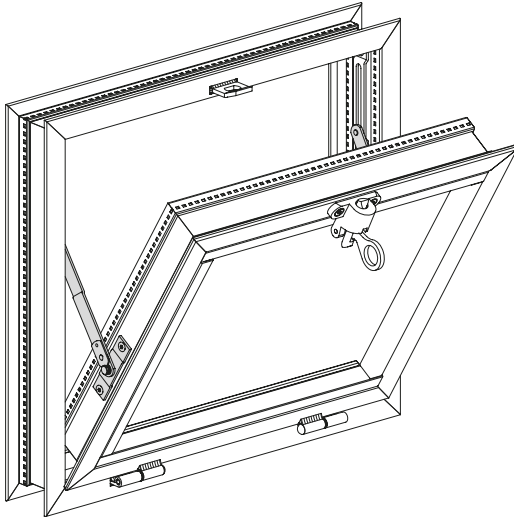
Opening limiter 557.197
From FFH 470 mm



**Aushängen Öffnungsbegrenzer
 und Kippschere**
557.180 / 557.181
557.197 / 557.174

**Décrochage du compas de limitation
 d'ouverture et du compas d'imposte**
557.180 / 557.181
557.197 / 557.174

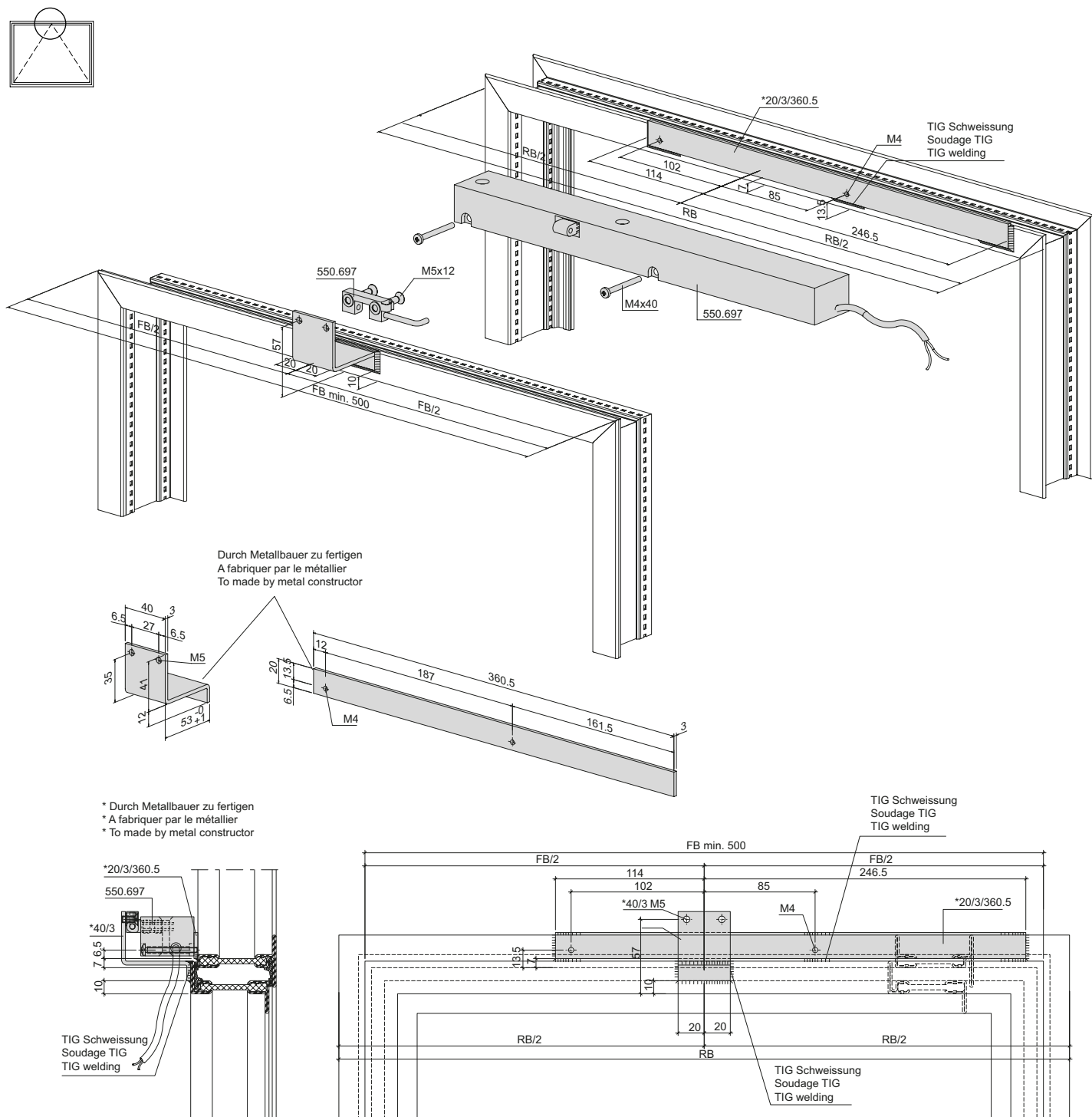
**Unhinging the opening limiter
 and tilt scissors**
557.180 / 557.181
557.197 / 557.174



Kettenantrieb 550.697
Montage auf Blendrahmen

Entraînement à chaîne 550.697
Montage sur cadre dormant

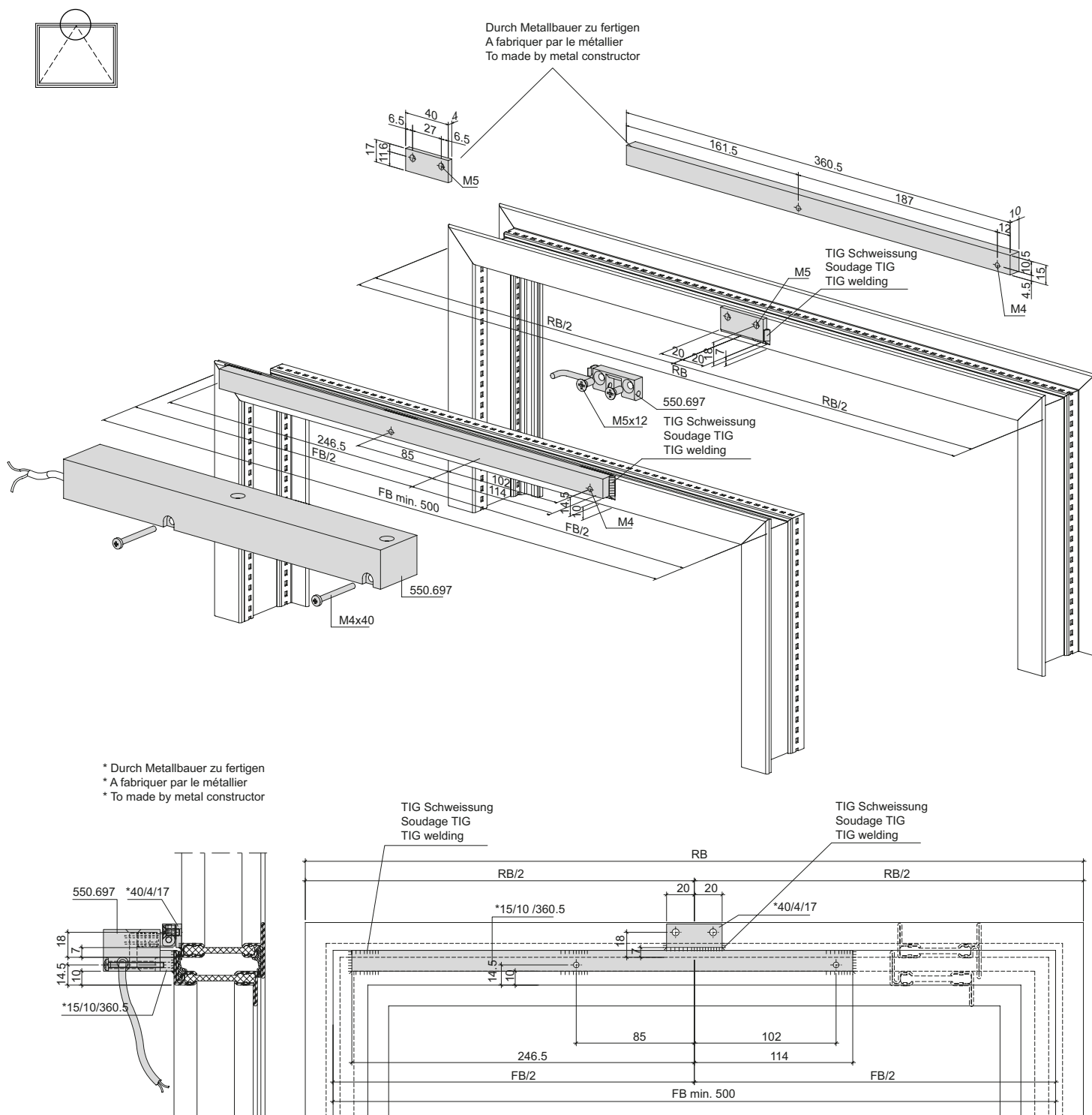
Chain drive 550.697
Installation on outer frame



Kettenantrieb 550.697
Montage auf Flügelrahmen

Entraînement à chaîne 550.697
Montage sur cadre de vantail

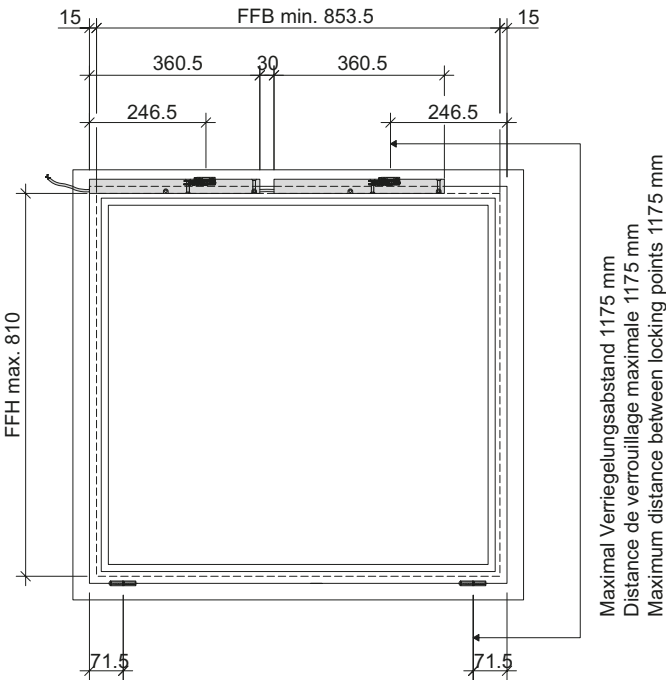
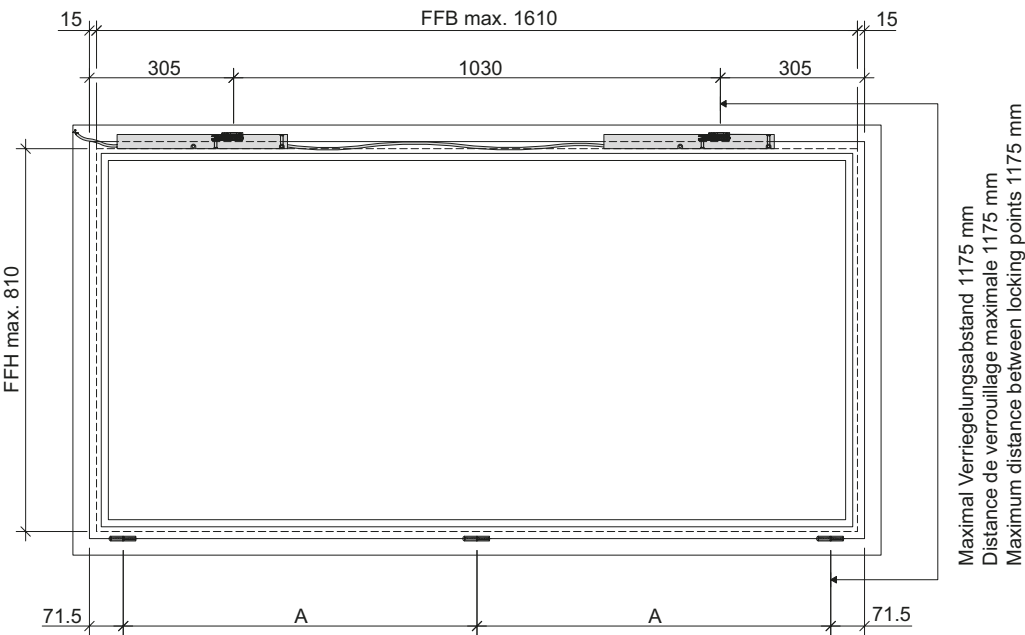
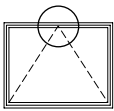
Chain drive 550.697 Installation on sash frame



Flügelgrößen mit Tandem-Antrieb

Tailles de vantail avec entraînement tandem

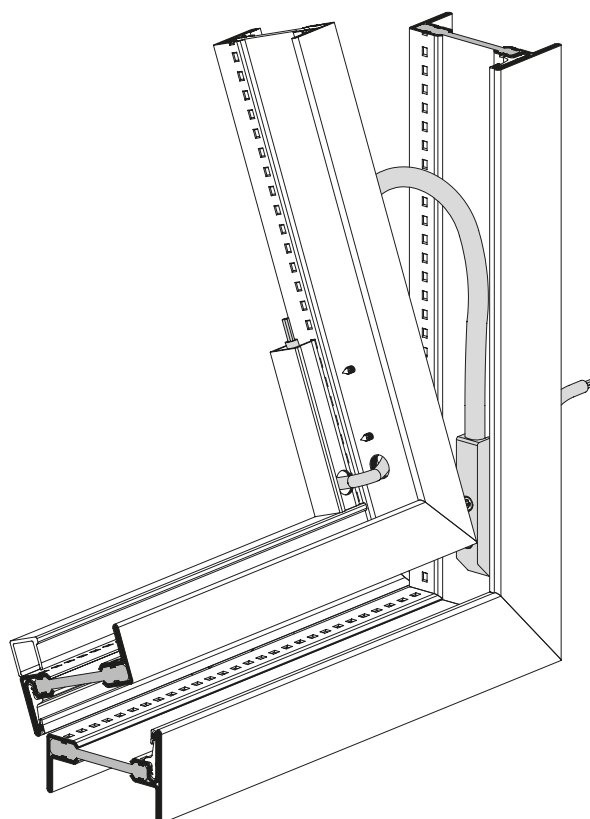
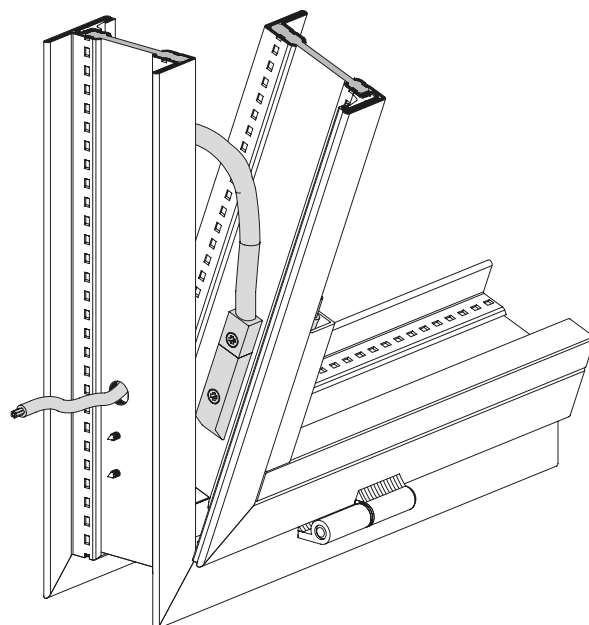
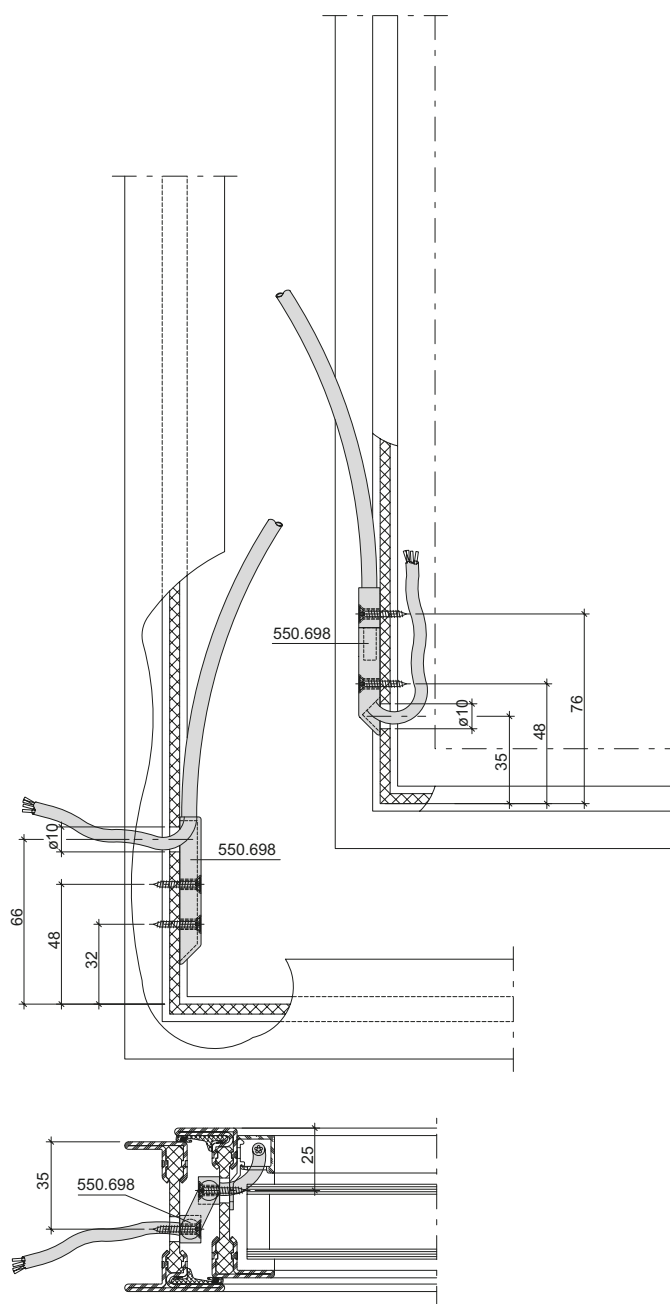
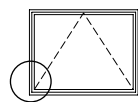
Leaf sizes with tandem drive



Kabelübergang 550.698

Passage de câble 550.698

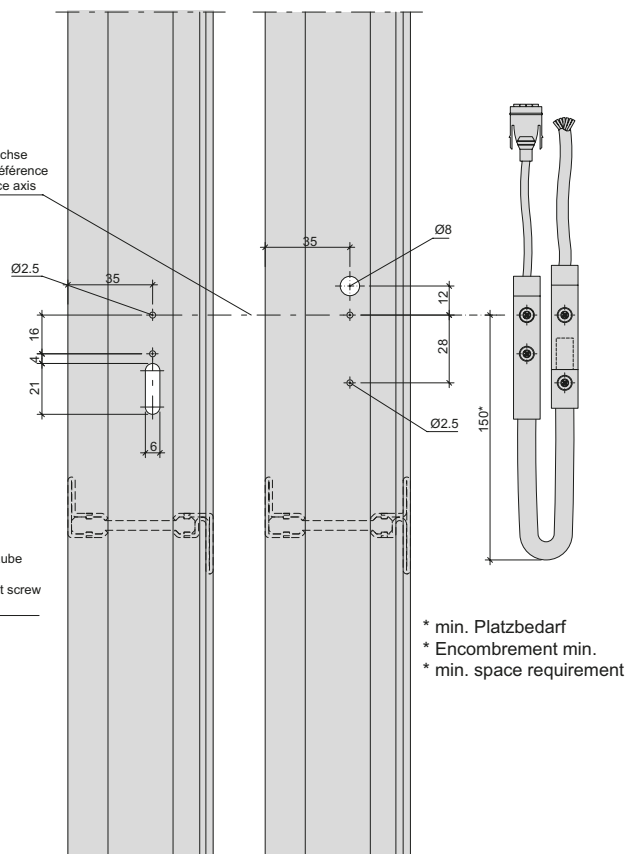
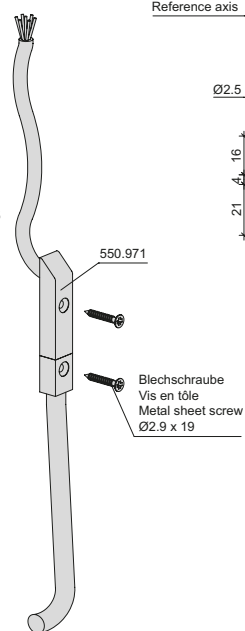
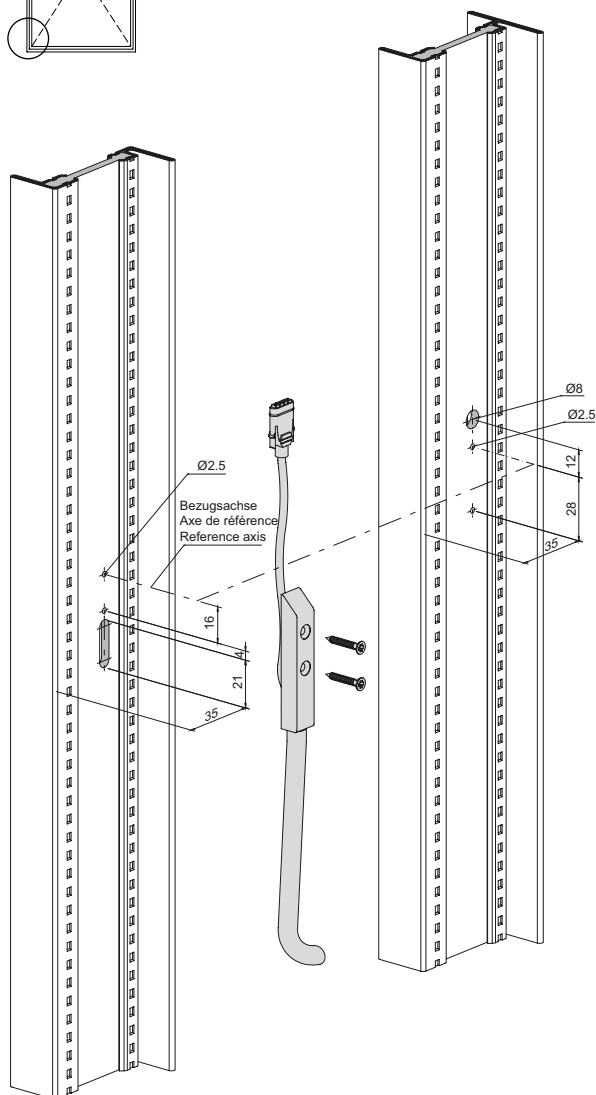
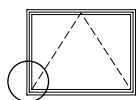
Cable link connector 550.698



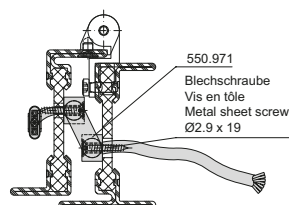
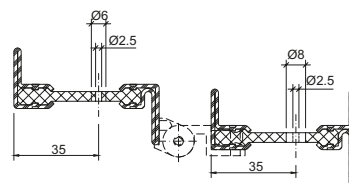
Kabelübergang 550.971 für
Gläser mit Alarmspinne

Passage de câble 550.971 pour les
vitrages avec alarme intégrée

Cable transition 550.971 for glass
panes with alarm system



* min. Platzbedarf
* Encombrement min.
* min. space requirement

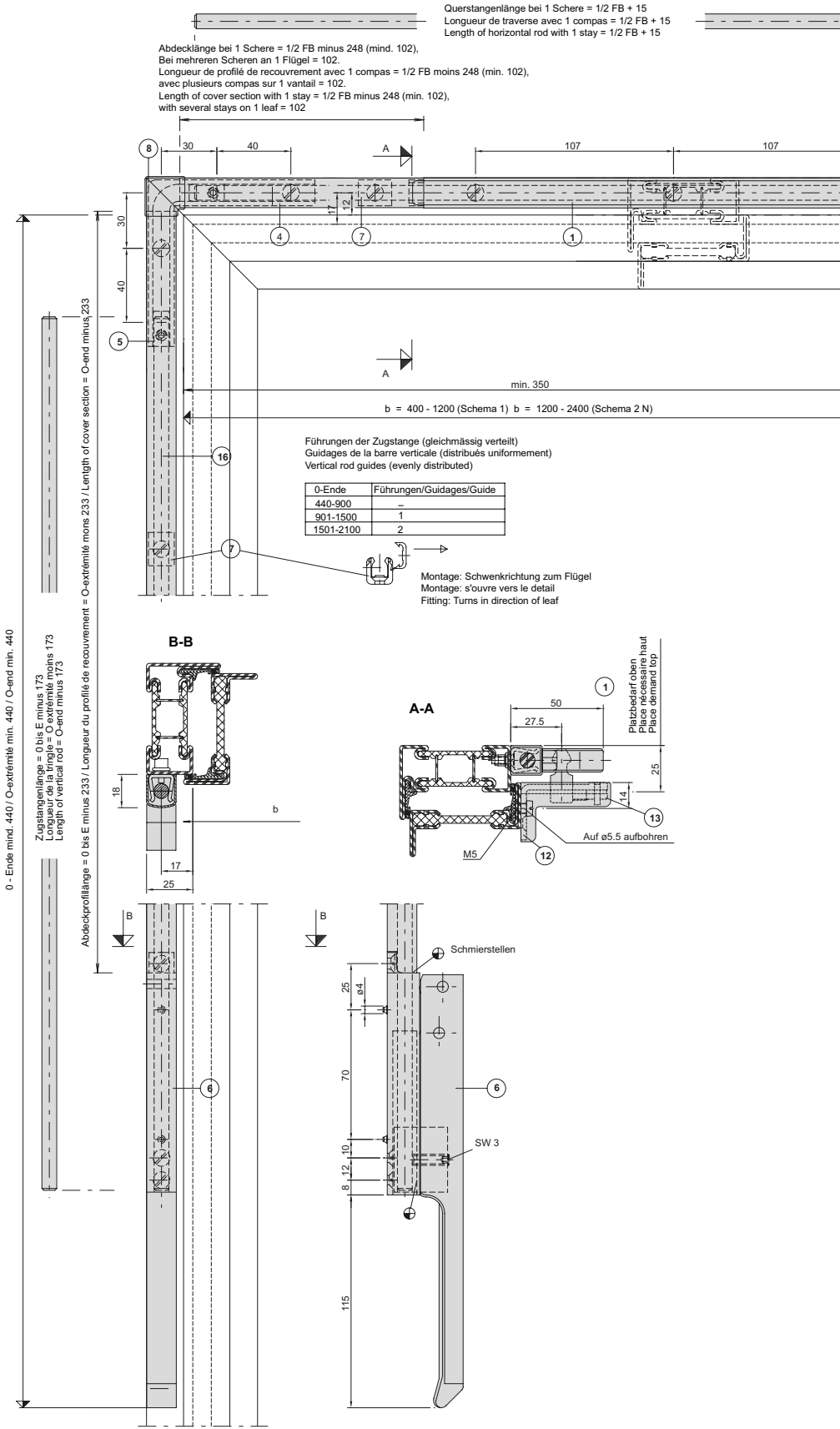
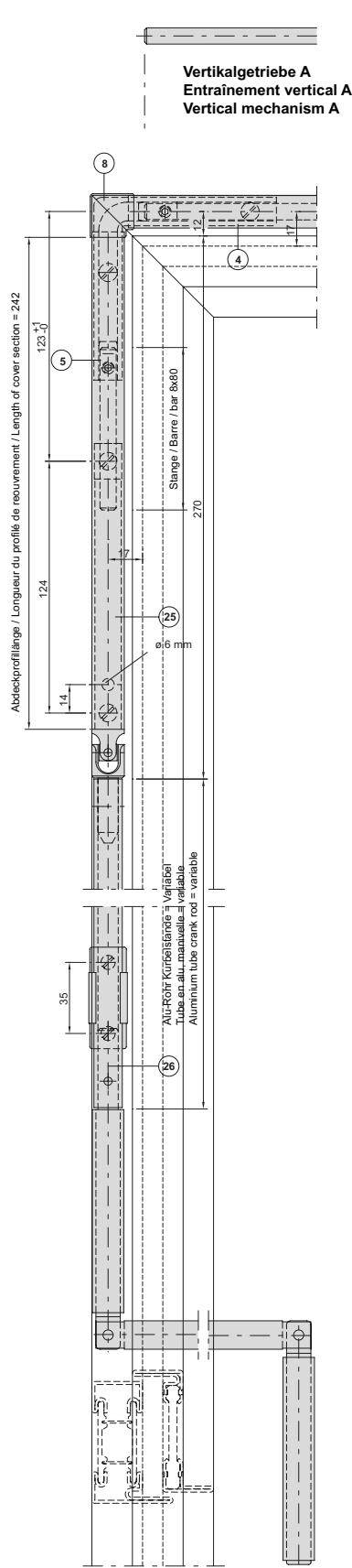


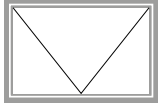
Beschlageinbau	Janisol Arte	2.0
Montage des ferrures	Janisol Arte	
Installation of fittings	Janisol Arte	

Oberlichtöffner F200

Ferrure d'imposte F200

Top light opener F200



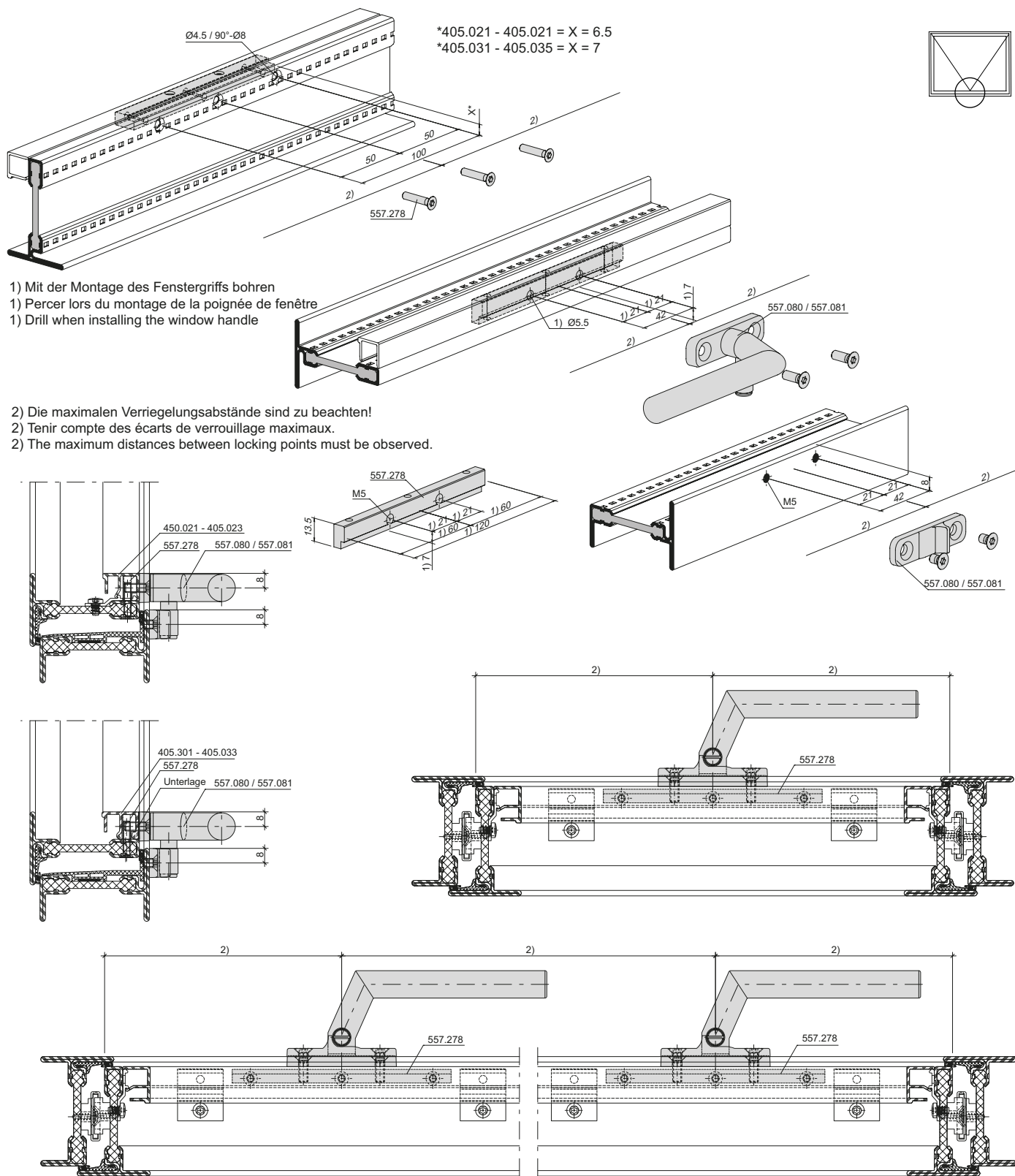


Klappfenster	Fenêtre basculante	Top-hung window	
Fenstergriff 557.080/557.081 (Senkklapp- und Klappfenster)	Poignée de fenêtre 557.080/081 (Fenêtre à l'italienne et basculante)	Window handle 557.080/081 (Projected top-hung and top-hung window)	293
Klappflügel-Schere 557.096	Compas pour fenêtres basculante 557.096	Stay for top-hung sash 557.096	294
Kettenantrieb 550.697 Montage auf Blendrahmen	Entraînement à chaîne 550.697 Montage sur cadre dormant	Chain drive 550.697 Installation on outer frame	295

Fenstergriff 557.080/557.081
(Senkklapp- und Klappfenster)

Poignée de fenêtre 557.080/081
(Fenêtre à l'italienne et basculante)

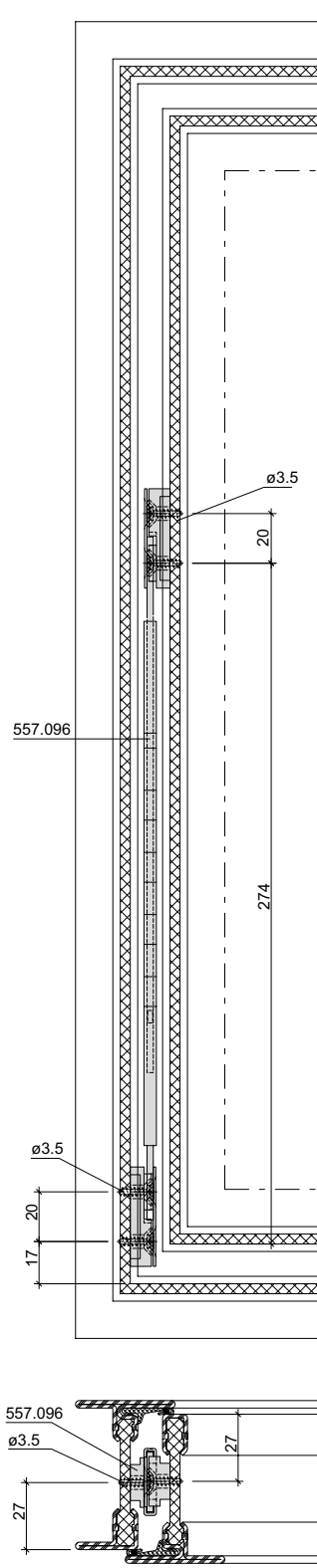
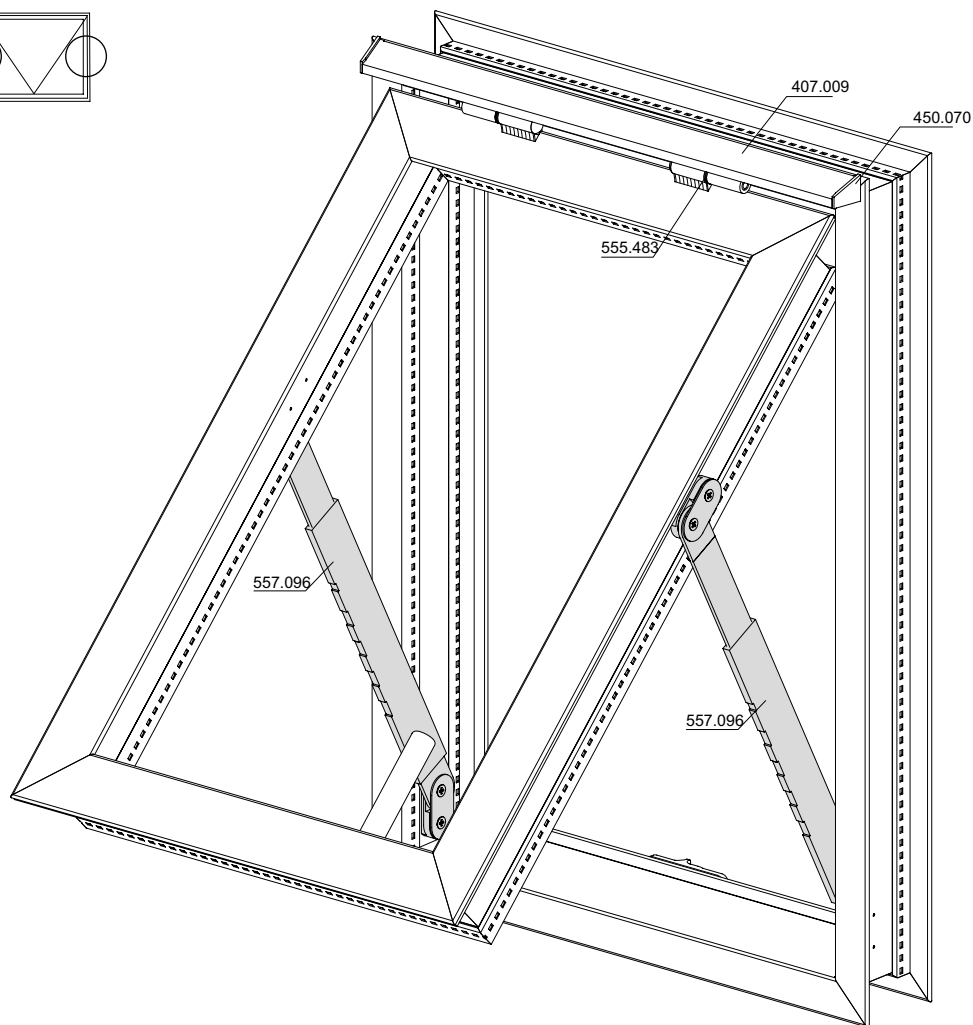
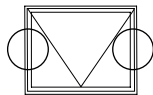
Window handle 557.080/081
(Projected top-hung and top-hung window)



Klappflügel-Schere 557.096

Compas pour fenêtres
basculante 557.096

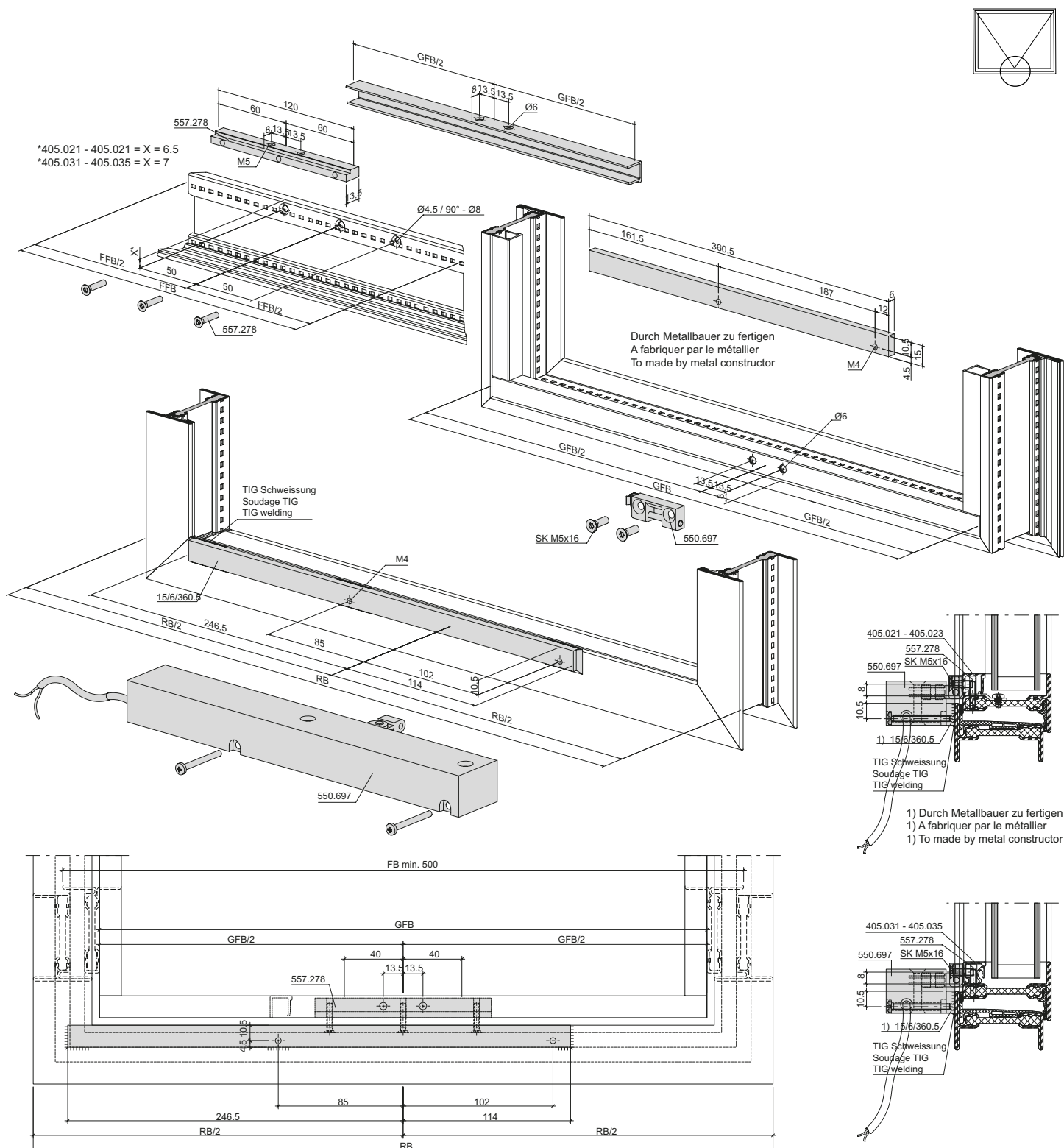
Stay for top-hung sash 557.096

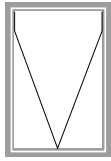


Kettenantrieb 550.697
Montage auf Blendrahmen

Entraînement à chaîne 550.697
Montage sur cadre dormant

Chain drive 550.697
Installation on outer frame



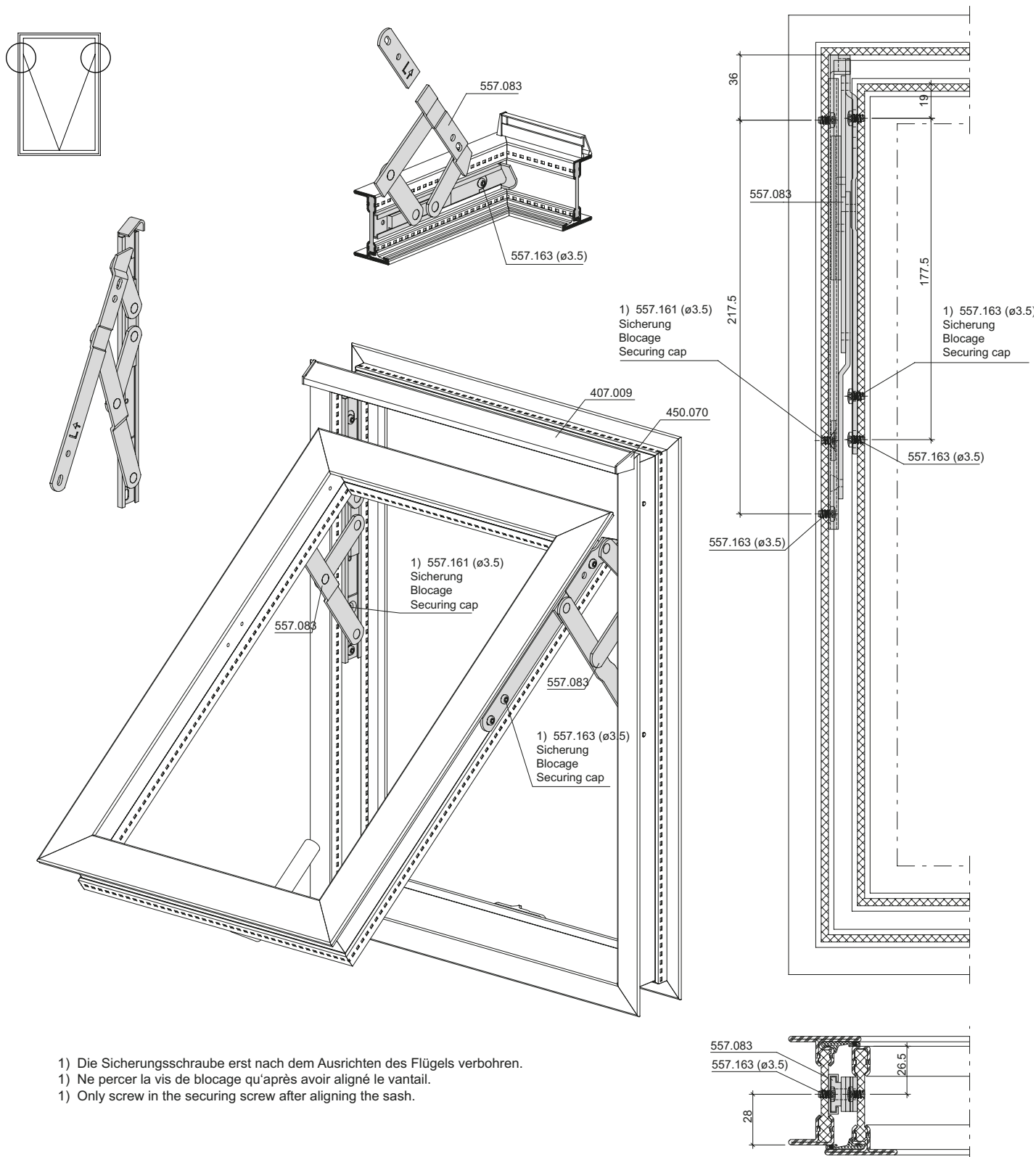


Senkklappfenster	Fenêtre à l'italienne	Projected top-hung window	
Friktionsschere 557.083	Compas à friction 557.083	Friction stay 557.083	297
Friktionsschere 557.084	Compas à friction 557.084	Friction stay 557.084	298
Friktionsschere 557.085	Compas à friction 557.085	Friction stay 557.085	299
Zwangsverriegelung 557.090	Verrouillage forcé 557.090	Security locking system 557.090	300

Friktionsschere 557.083

Compas à friction 557.083

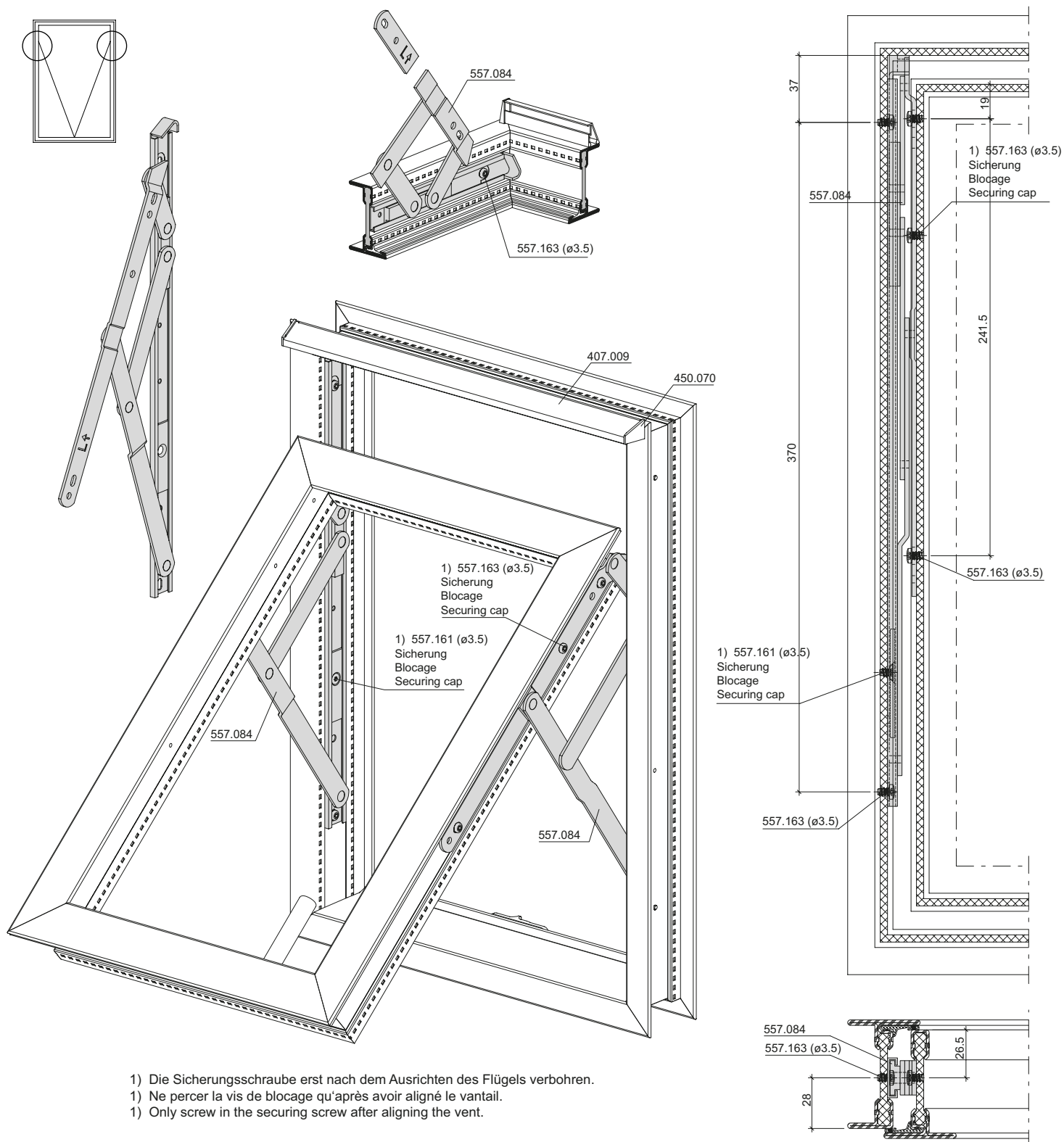
Friction stay 557.083



Friktionsschere 557.084

Compas à friction 557.084

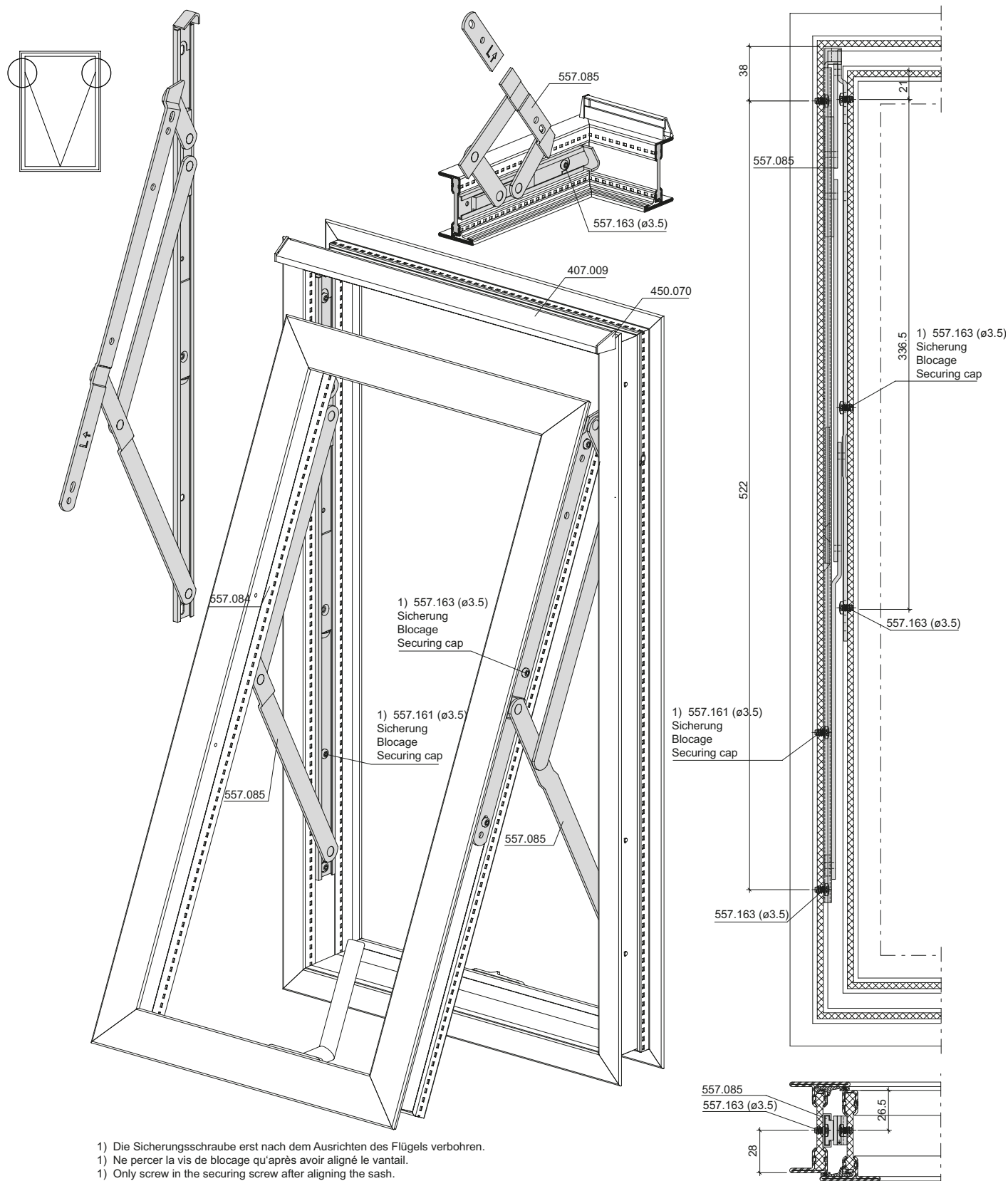
Friction stay 557.084



Friktionsschere 557.085

Compas à friction 557.085

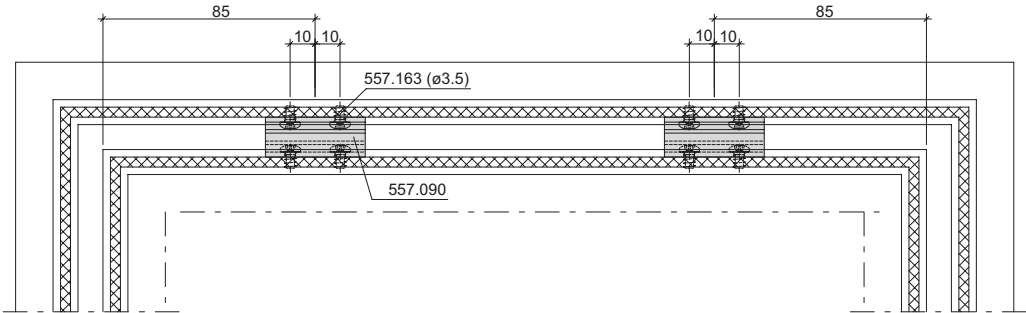
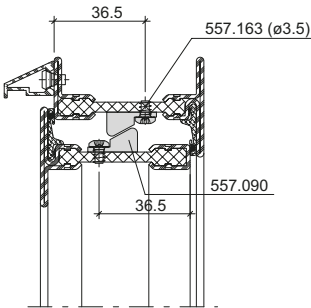
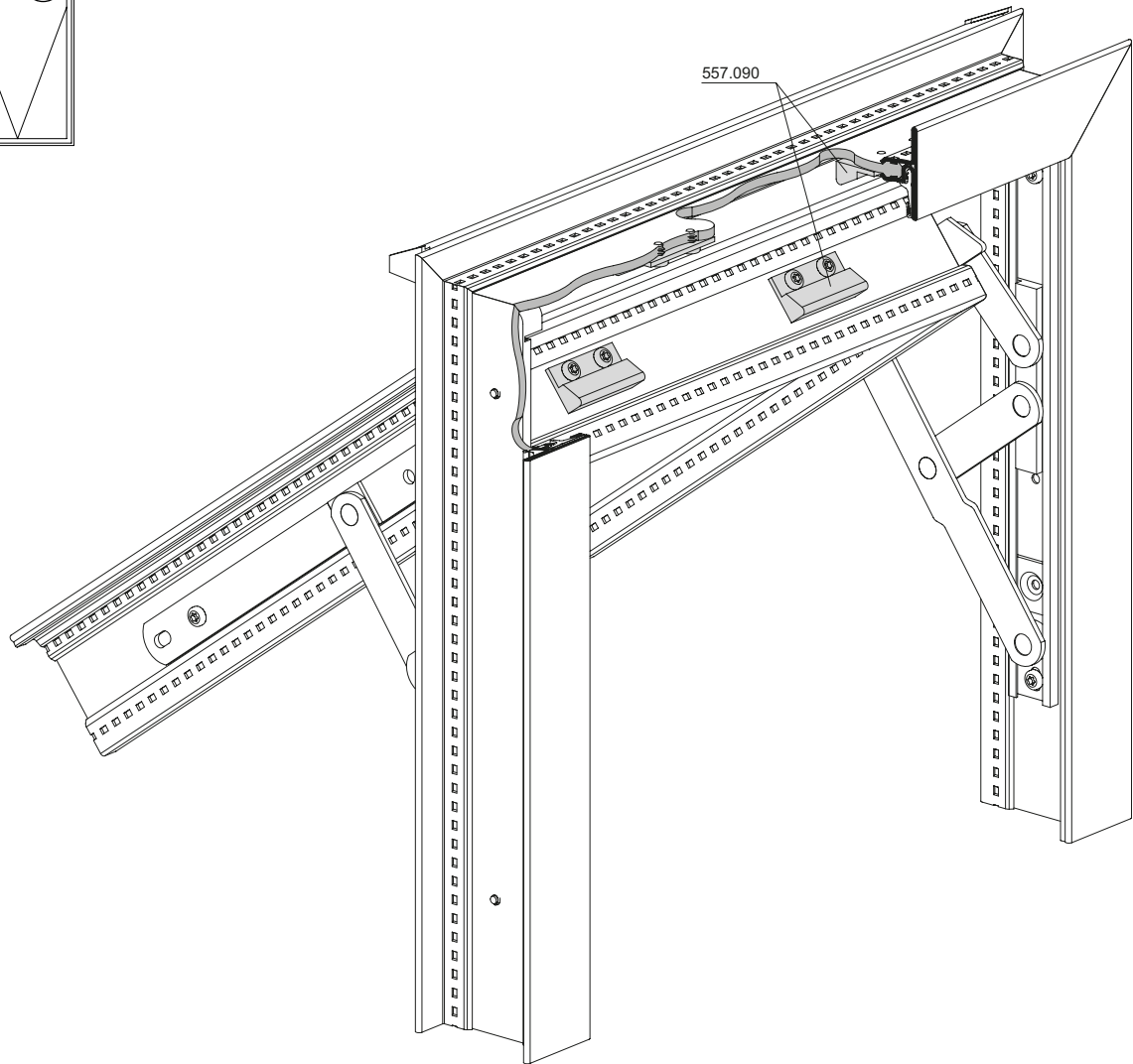
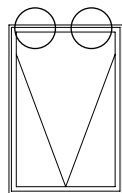
Friction stay 557.085

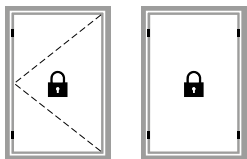


Zwangsverriegelung 557.090

Verrouillage forcé 557.090

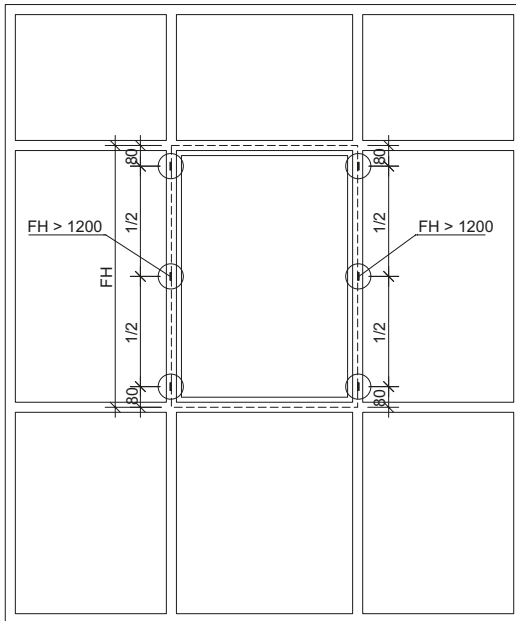
Security locking system 557.090



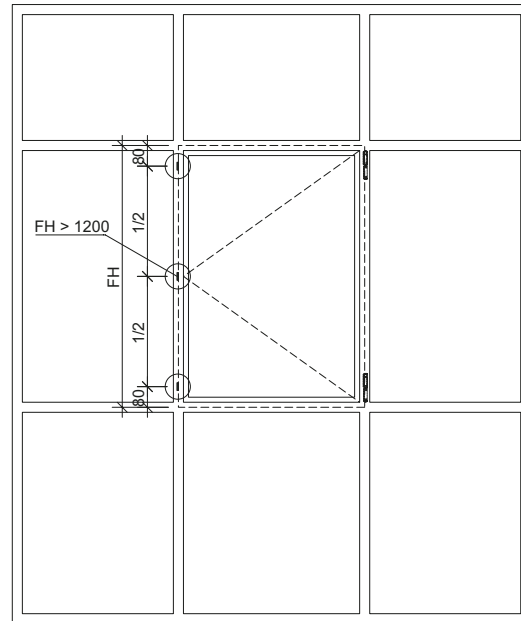


Fixiertes Fenster	asaas	asasas	
Fixiertes Fenster mit oder ohne Band	Fenêtre fixe avec ou sans paumelle	Fixed window with or without hinge	302
Fixiertes Fenster	Fenêtre fixe	Fixed window	303
Fixiertes Fenster Ausführung fest (ohne Band)	Fenêtre fixe Version fixe (sans paumelle)	Fixed window Fixed design (without hinge)	304
Fixiertes Fenster Ausführung fest (ohne Band)	Fenêtre fixe Version fixe (sans paumelle)	Fixed window Fixed design (without hinge)	305

Fixiertes Fenster mit oder ohne Band

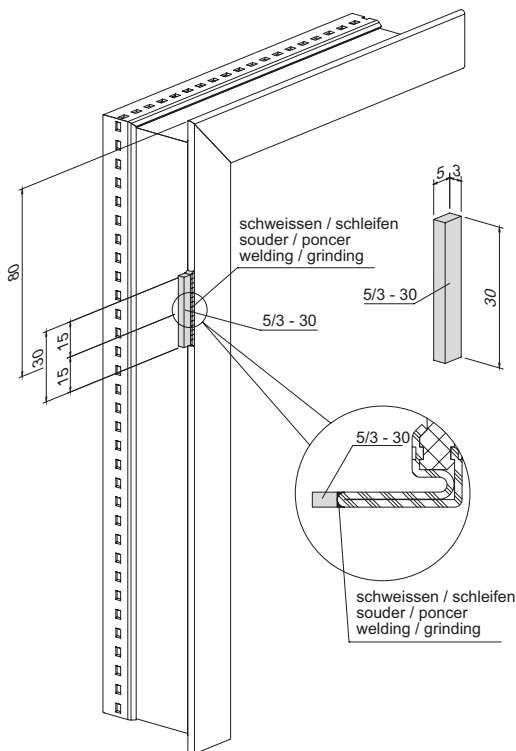


Fenêtre fixe avec ou sans paumelle

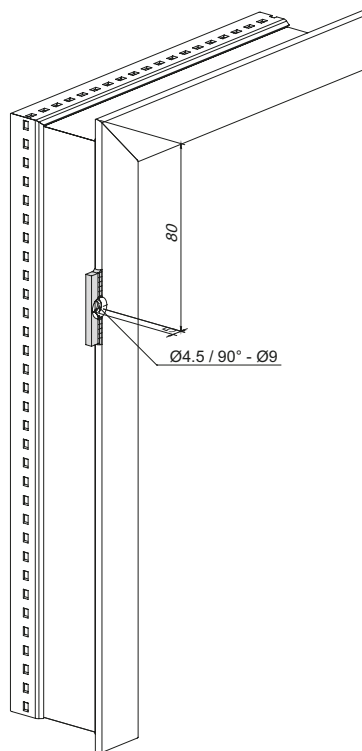


**Fixed window
with or without hinge**

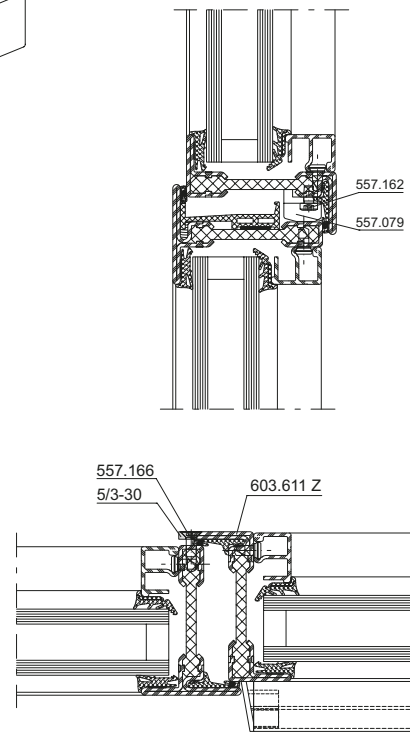
Ausführung mit Band



Exécution avec paumelle



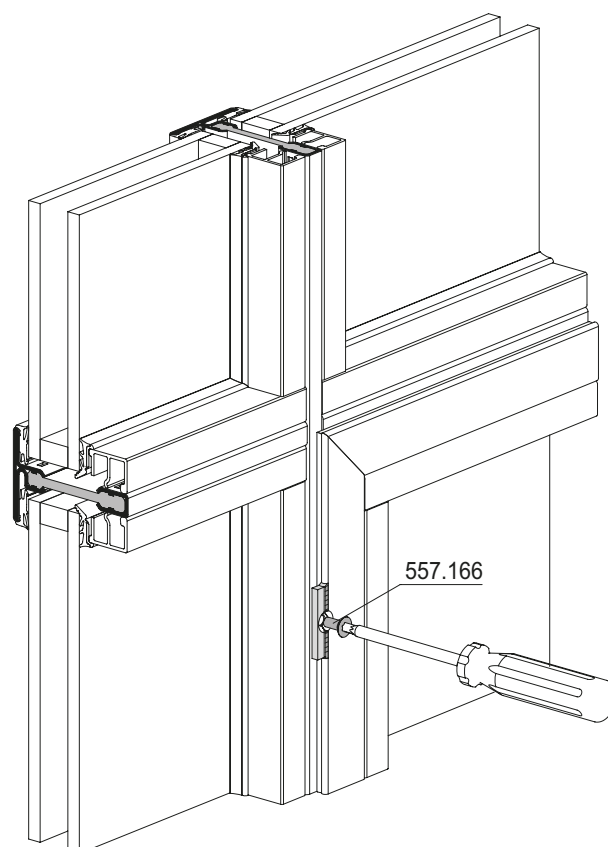
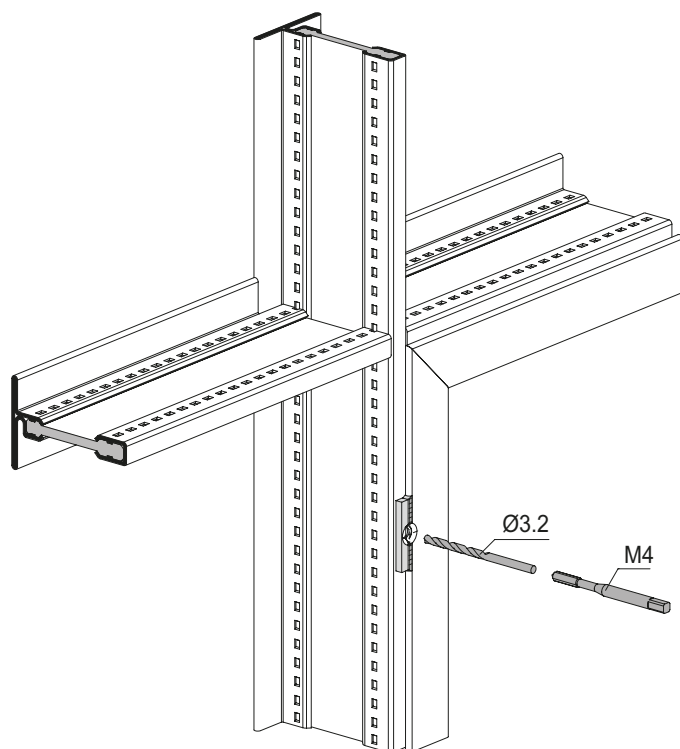
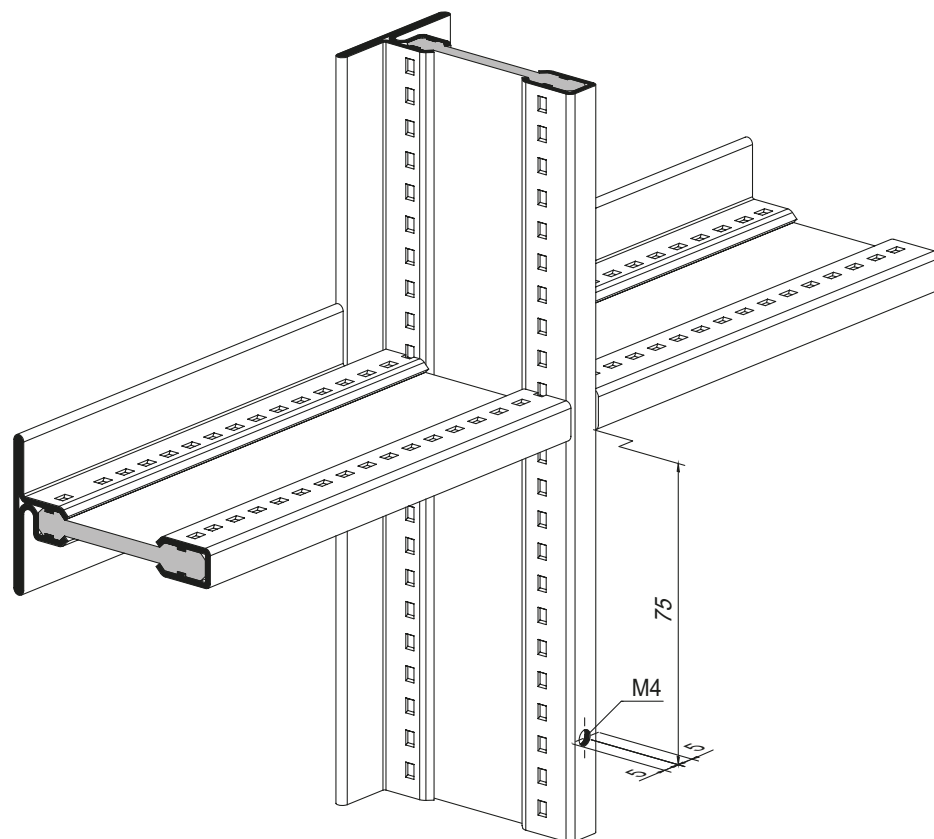
Version with hinge



Fixiertes Fenster

Fenêtre fixe

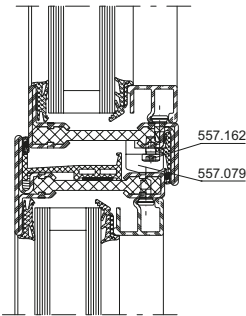
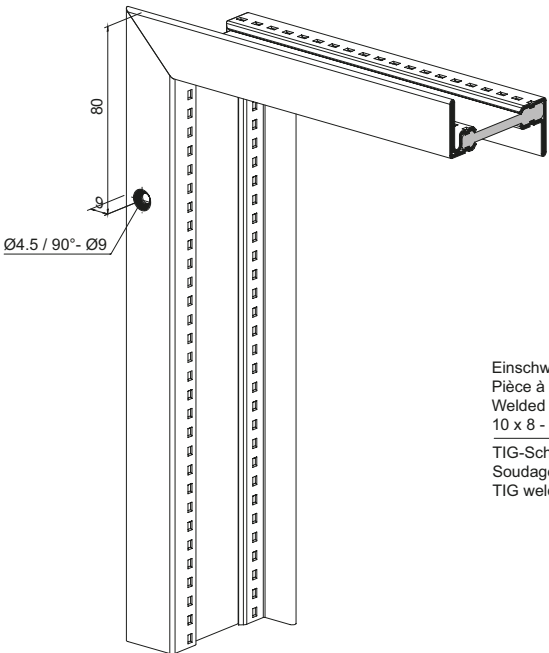
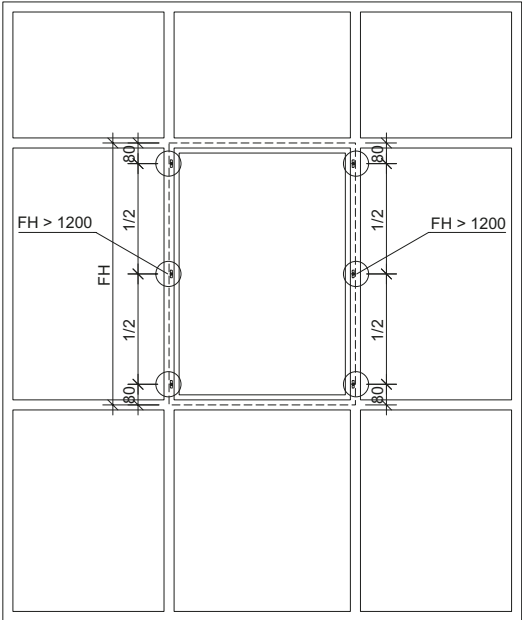
Fixed window



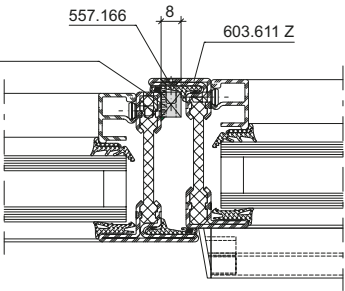
Fixiertes Fenster
Variante fest (ohne Band)

Fenêtre fixe
Version fixe (sans paumelle)

Fixed window
Fixed design (without hinge)



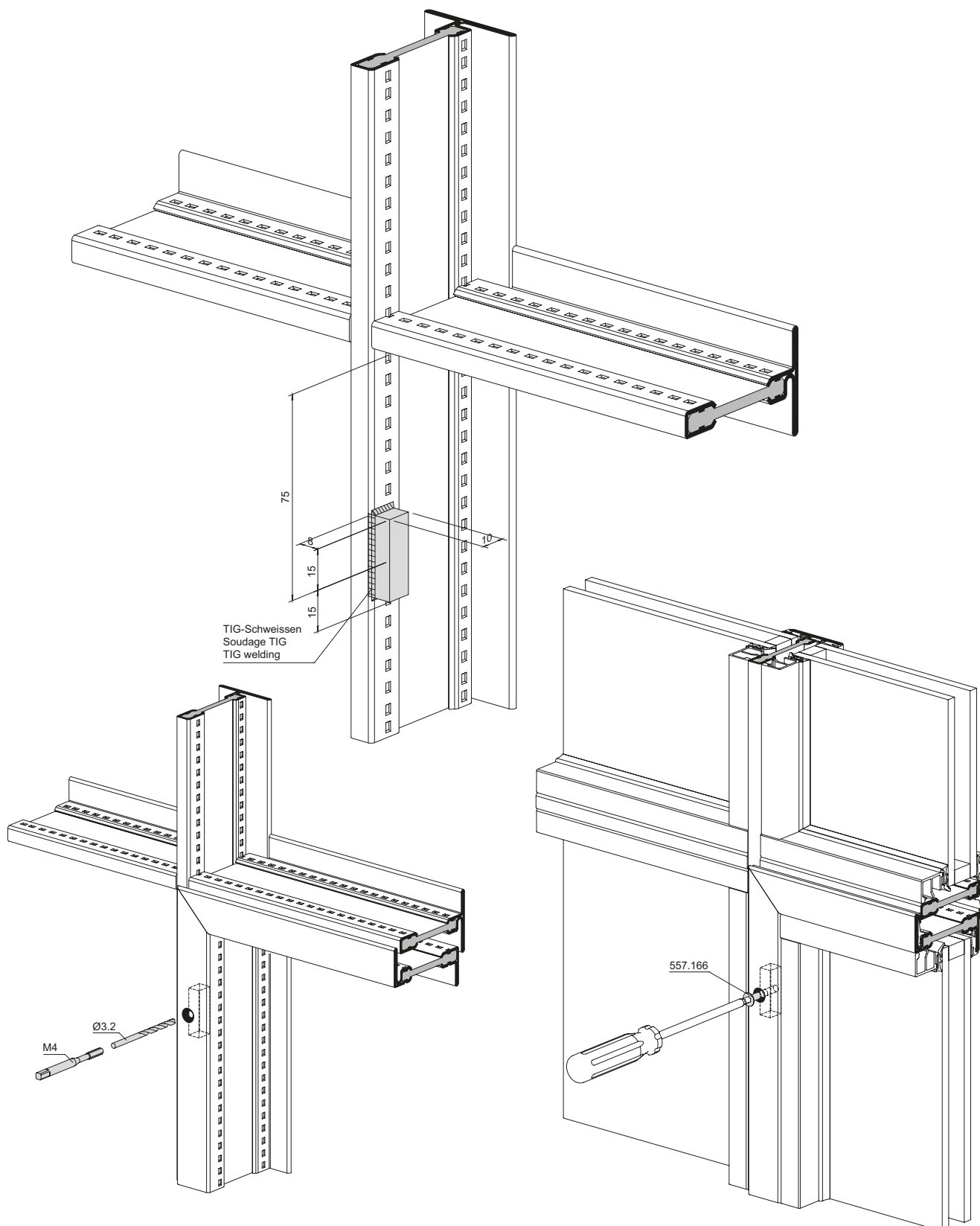
Einschweissteil
Pièce à souder
Welded part
10 x 8 - 30
TIG-Schweißen
Soudage TIG
TIG welding



Fixiertes Fenster
Variante fest (ohne Band)

Fenêtre fixe
Version fixe (sans paumelle)

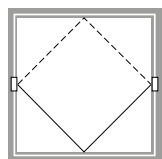
Fixed window
Fixed design (without hinge)



Beschlageinbau
Montage des ferrures
Installation of fittings

Janisol Arte
Janisol Arte
Janisol Arte

2.0

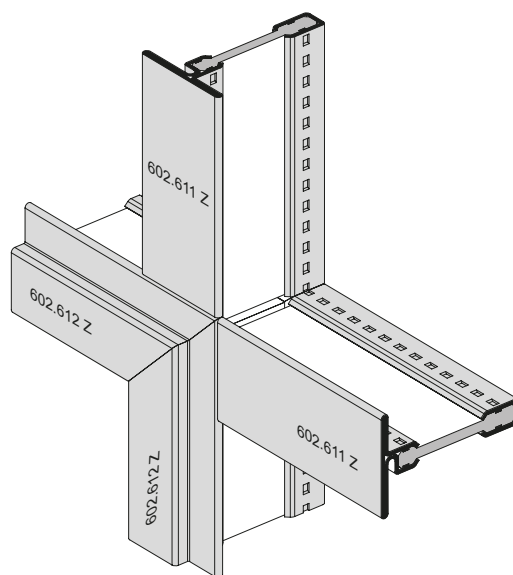
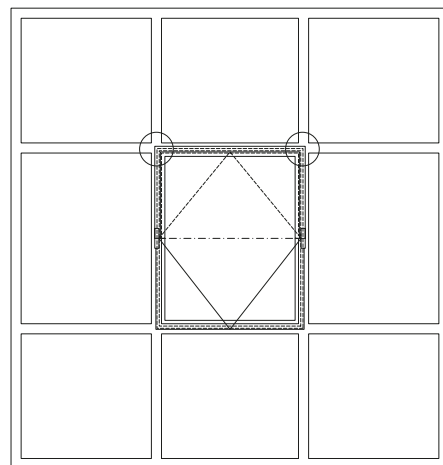
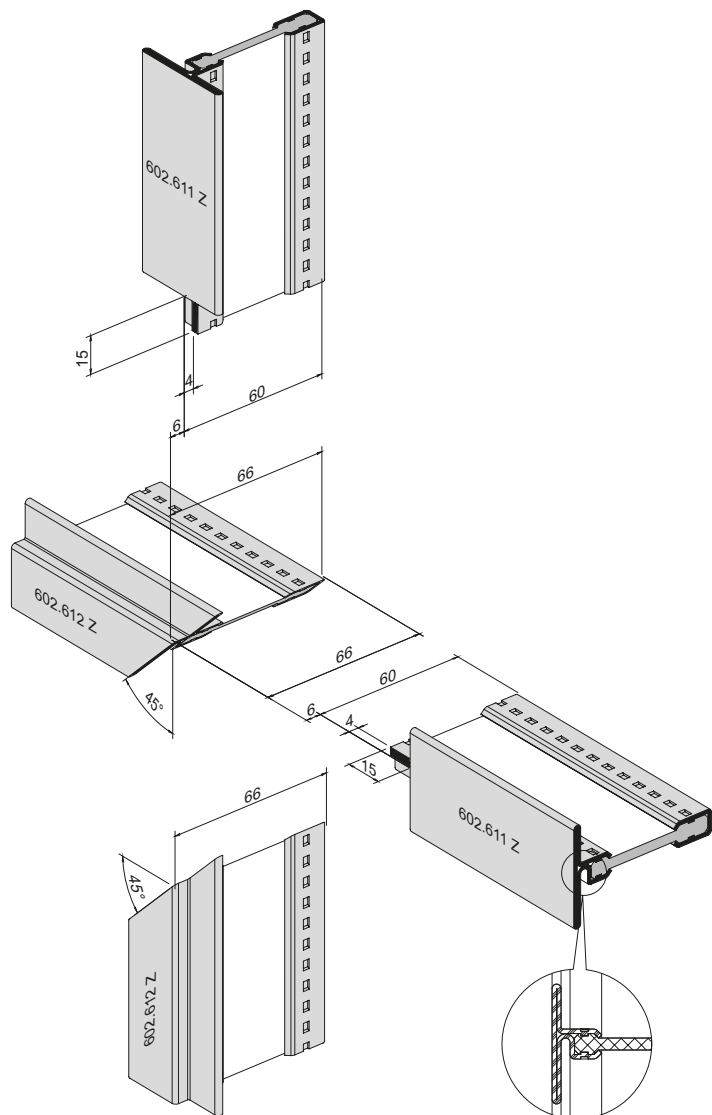


Schwingfenster	Fenêtre basculante	Horizontal pivot window	
Ausbildung Kreuzpunkt	Formation croisée	Construction of intersection	308
Zuschnitt, Bearbeitung und Zusammenbau Rahmen	Découpe, usinage et assemblage cadre	Cutting, preparing and assembly frame	310
Zuschnitt, Bearbeitung und Zusammenbau Flügel	Découpe, usinage et assemblage vantail	Cutting, preparing and assembly sash	318
Einbau Wechsel 557.270	Montage compas basculant 555.270	Installation of horizontal pivot 557.270	326
Einbau Fenstergriff 557.080 / 557.081	Montage de la poignée 557.080 / 557.081	Installation of handle 557.080 / 557.081	327
Einbau Auflaufbock 557.079	Montage bloc d'arrêt 557.079	Installation engagement block 557.079	330
Einbau Entwässerungsprofil 452.981	Montage profilé de drainage 452.981	Installation drainage profile 452.981	332
Einbau Anschlagdichtung 455.046	Montage joint de butée 455.046	Installation rebate weatherstrip 455.046	335
Einbau Schwinglager 557.270	Montage compas basculant 557.270	Installation horizontal pivot 557.270	338
Montage Schwingfenster	Montage fenêtre basculante	Installation of horizontal pivot window	340
Montage Anschlussteile 557.270	Montage pièces d'embout 557.270	Installation of connections 557.270	342
Montage Glasleisten-Einlage 557.278	Montage cale de compensation 557.278	Installation of glazing bead insert 557.278	343
Montage Fenstergriff 557.080 / 557.081	Montage poignée 557.080 / 557.081	Installation of handle 557.080 / 557.081	344
Verklotzung Schwingfenster gemäss Empfehlung DIN EN 12488	Calage de fenêtre basculante selon recommandation DIN EN 12488	Glazing blocks of horizontal pivot window according to DIN EN 12488 recommendation	345
Einbau Antrieb 550.679	Montage de l'entraînement 550.679	Installation of drive 550.679	346
Einbau Zusatzverriegelung 557.074	Montage du verrouillage supplémentaire 557.074	Installation of additional lock 557.074	347
Einbau Öffnungsbegrenzer	Montage du compas de limitation d'ouverture	Installation of opening limiter	348
Einbau Kippschere 557.174	Montage du compas d'imposte 557.174	Installation of tilt scissors 557.174	354
Aushängen Öffnungsbegrenzer und Kippschere	Décrochage du compas de limitation d'ouverture et du compas d'imposte	Unhinging the opening limiter and tilt scissors	356

**Ausbildung Kreuzpunkt
oben**

**Formation croisée
en haut**

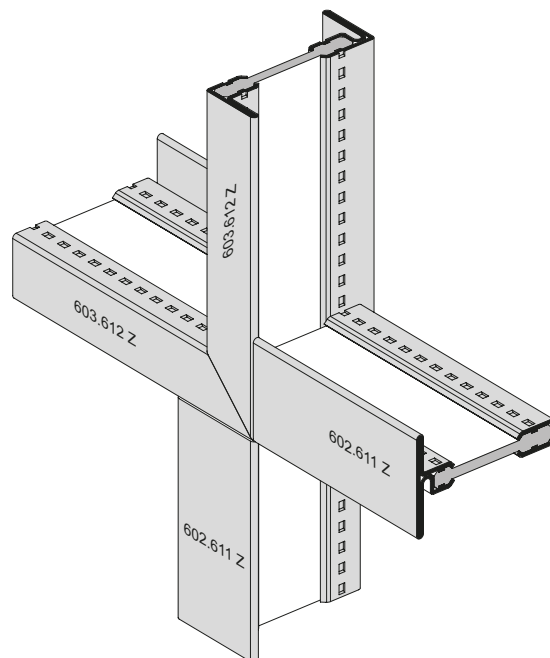
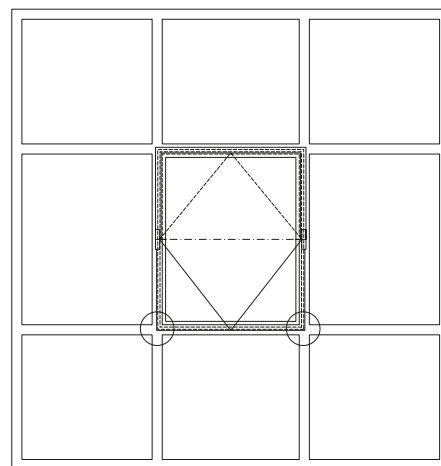
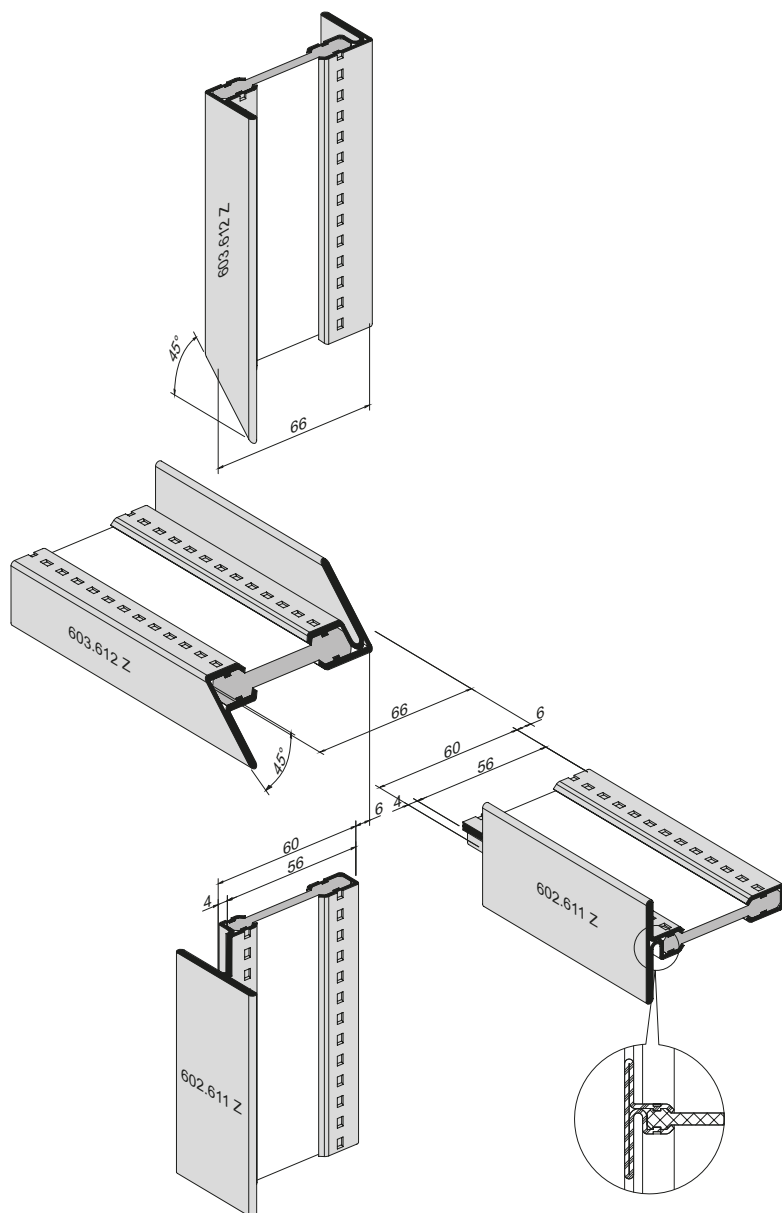
**Construction of intersection
top**



Ausbildung Kreuzpunkt
unten

Formation croisée
en bas

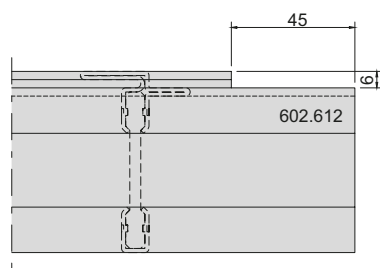
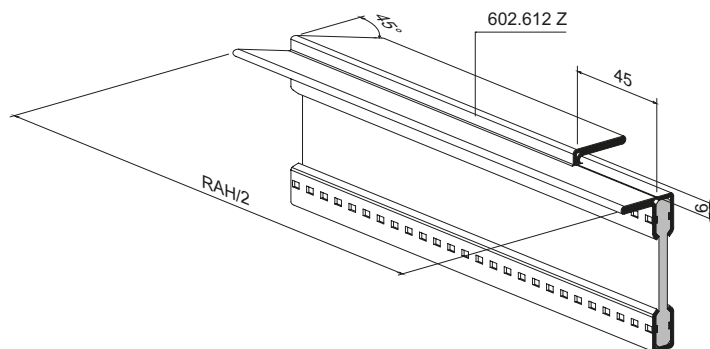
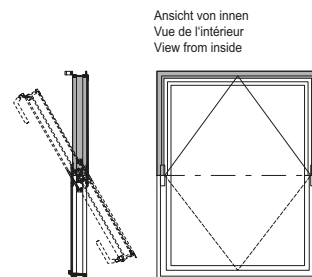
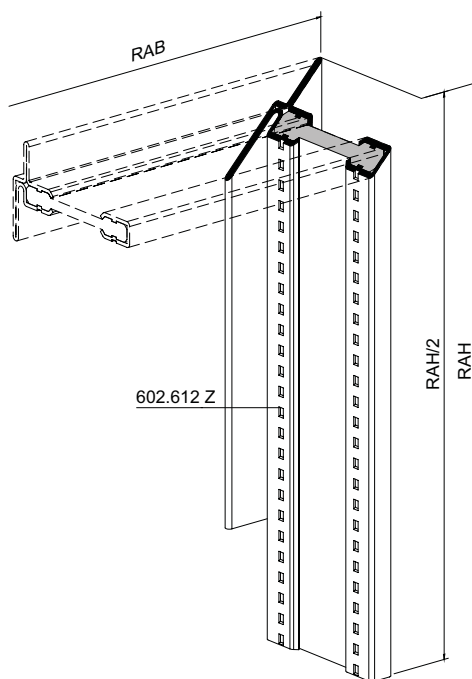
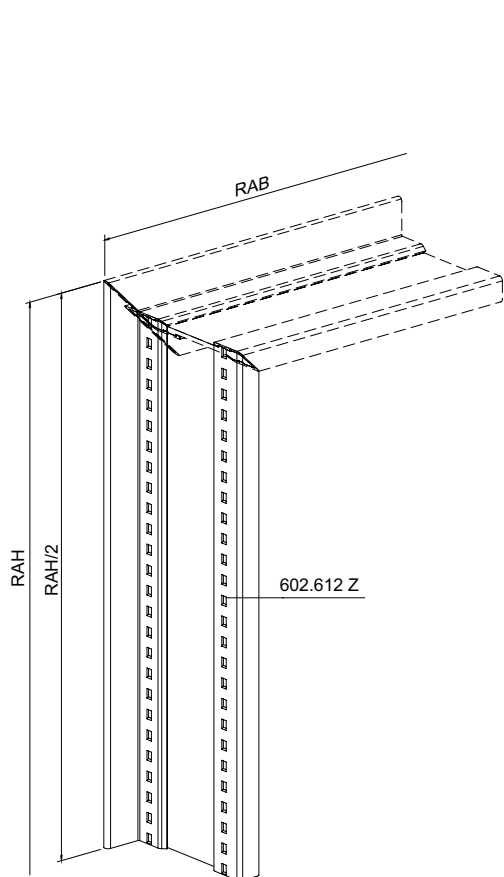
Construction of intersection
bottom



**Zuschnitt Rahmen
oben**

**Découpe cadre
en haut**

**Cutting the frame
top**

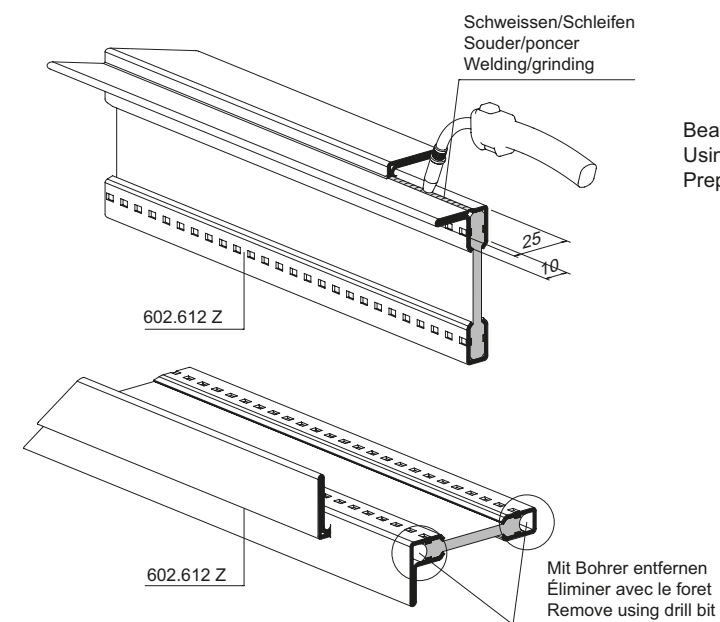


Bearbeitung Profil unten spiegelbildlich
 Usinage profilé inférieur réfléchi
 Preparation of profile at the bottom mirror image

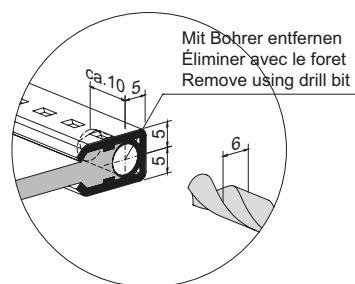
**Bearbeitung Rahmen
 oben seitlich**

**Usinage cadre
 en haut latéral**

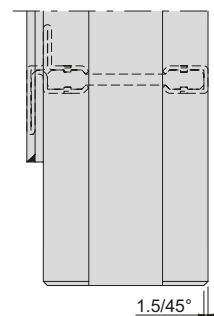
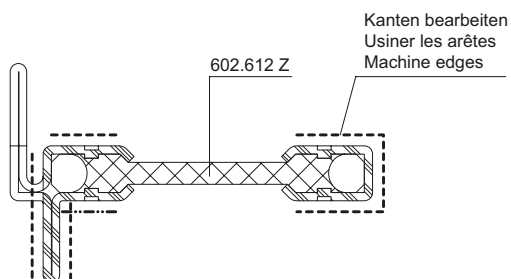
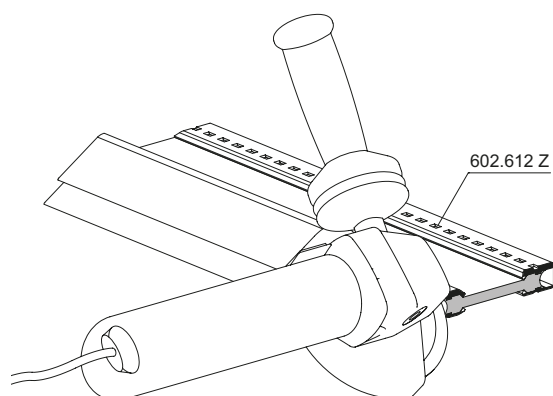
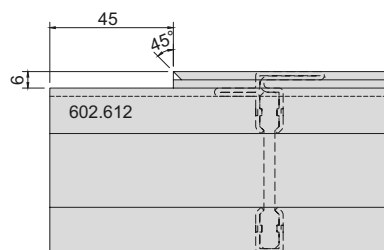
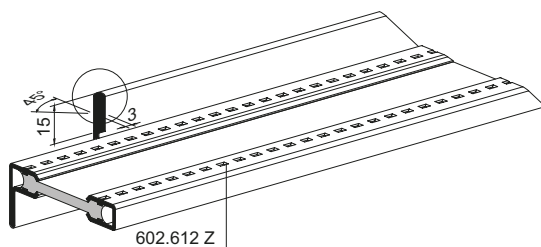
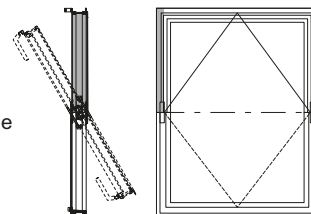
**Preparing the frame
 top lateral**



Bearbeitung Profil unten spiegelbildlich
 Usinage profilé inférieur réfléchi
 Preparation of profile at the bottom mirror image



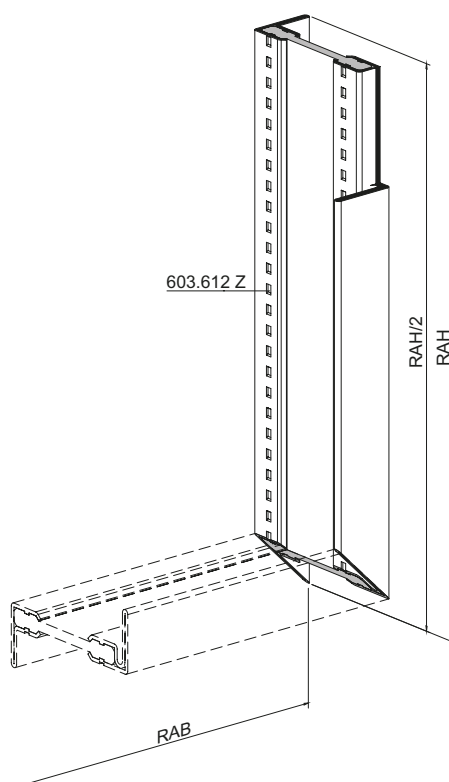
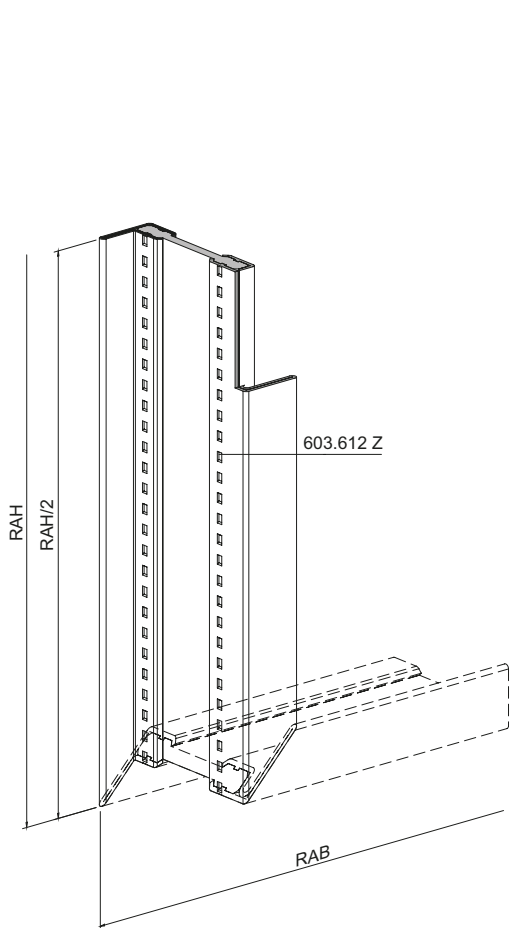
Ansicht von innen
 Vue de l'intérieur
 View from inside



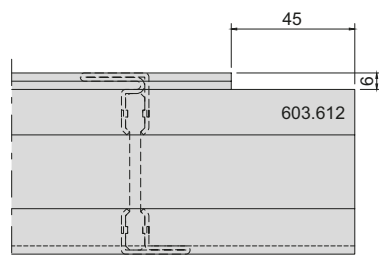
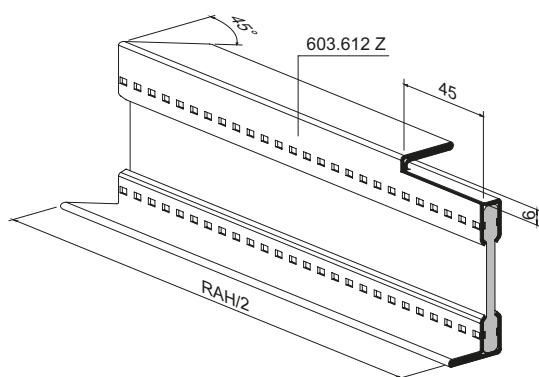
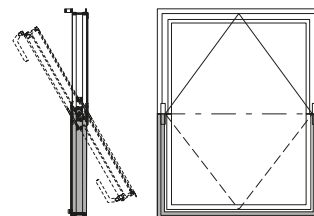
**Zuschnitt Rahmen
 unten**

**Découpe cadre
 en bas**

**Cutting the frame
 bottom**



Ansicht von innen
 Vue de l'intérieur
 View from inside

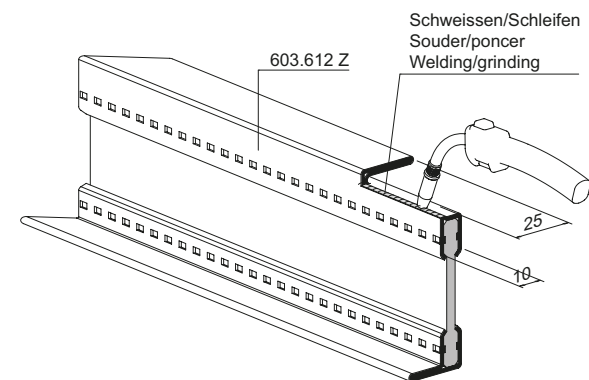


Bearbeitung Profil unten spiegelbildlich
 Usinage profilé inférieur réfléchi
 Preparation of profile at the bottom mirror image

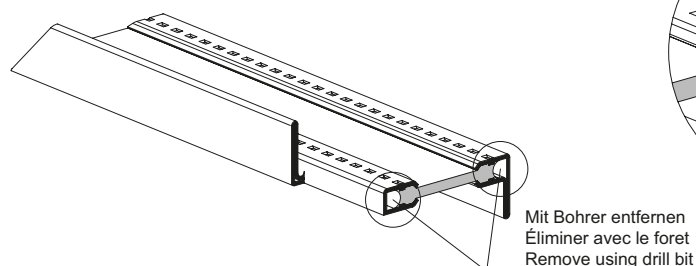
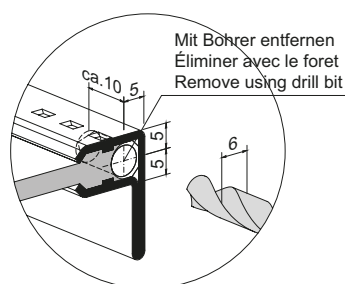
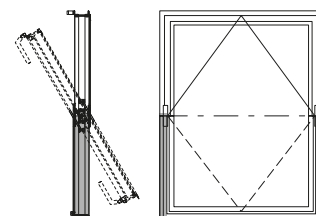
**Bearbeitung Rahmen
 unten seitlich**

**Usinage cadre
 en bas latéral**

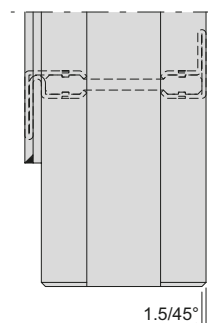
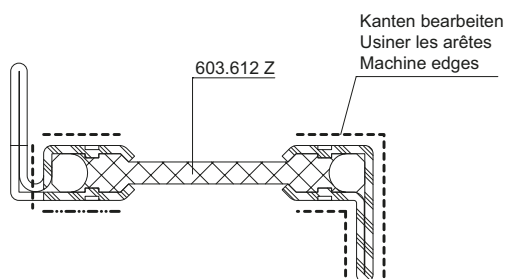
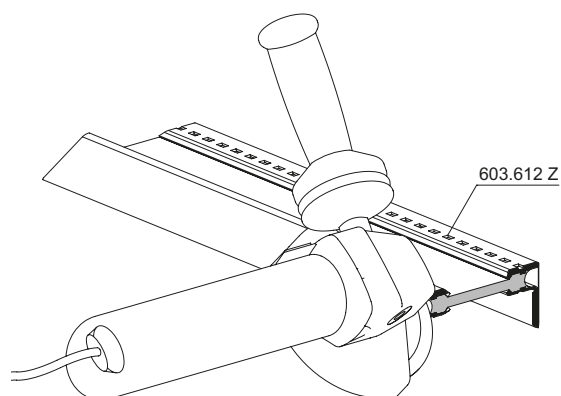
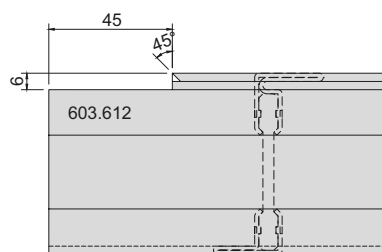
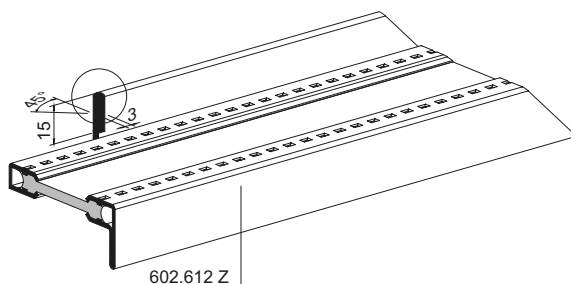
**Preparing the frame
 bottom lateral**



Ansicht von innen
 Vue de l'intérieur
 View from inside



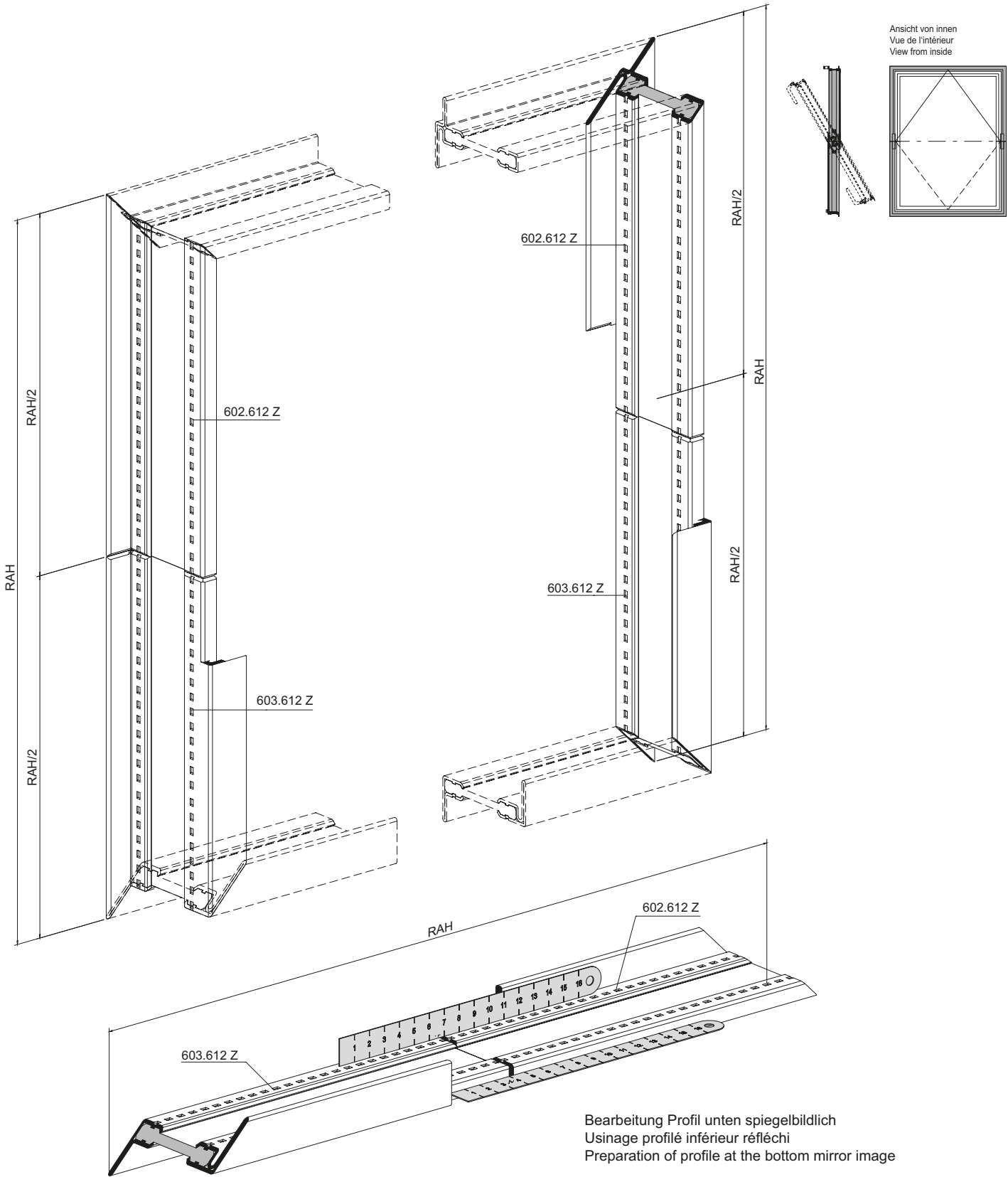
Bearbeitung Profil unten spiegelbildlich
 Usinage profilé inférieur réfléchi
 Preparation of profile at the bottom mirror image



Zusammenbau Rahmen

Assemblage de cadre

Assembly of frame

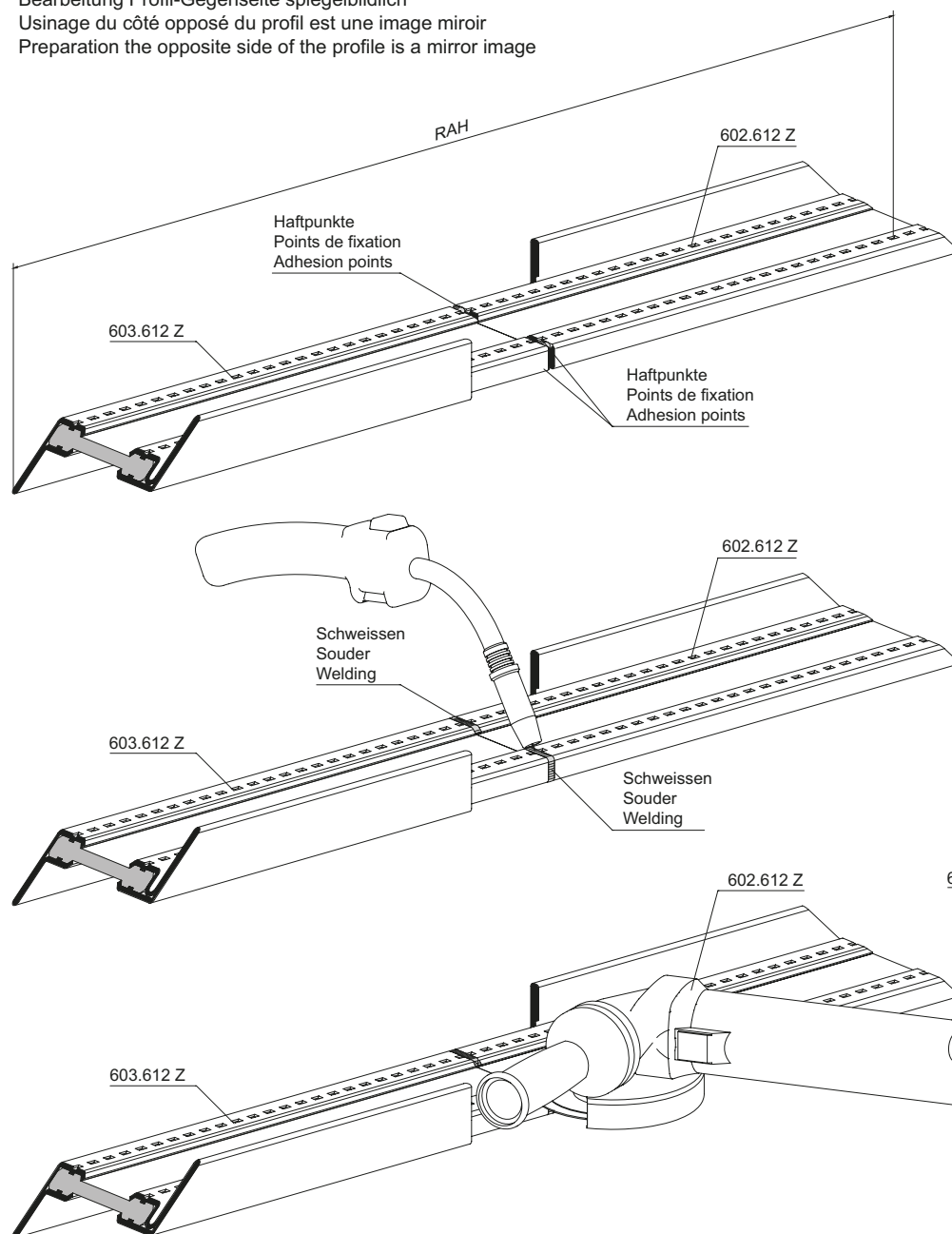


**Zusammenbau Rahmen
 seitlich**

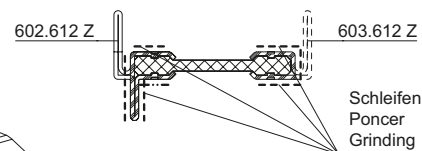
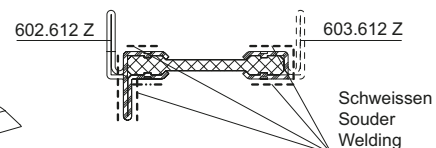
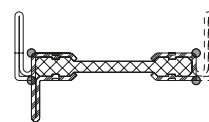
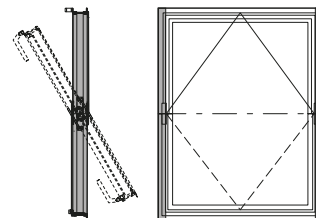
**Assemblage de cadre
 latéral**

**Assembly of frame
 lateral**

Bearbeitung Profil-Gegenseite spiegelbildlich
 Usinage du côté opposé du profil est une image miroir
 Preparation the opposite side of the profile is a mirror image



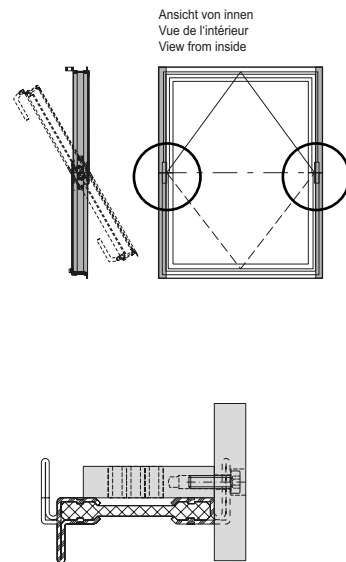
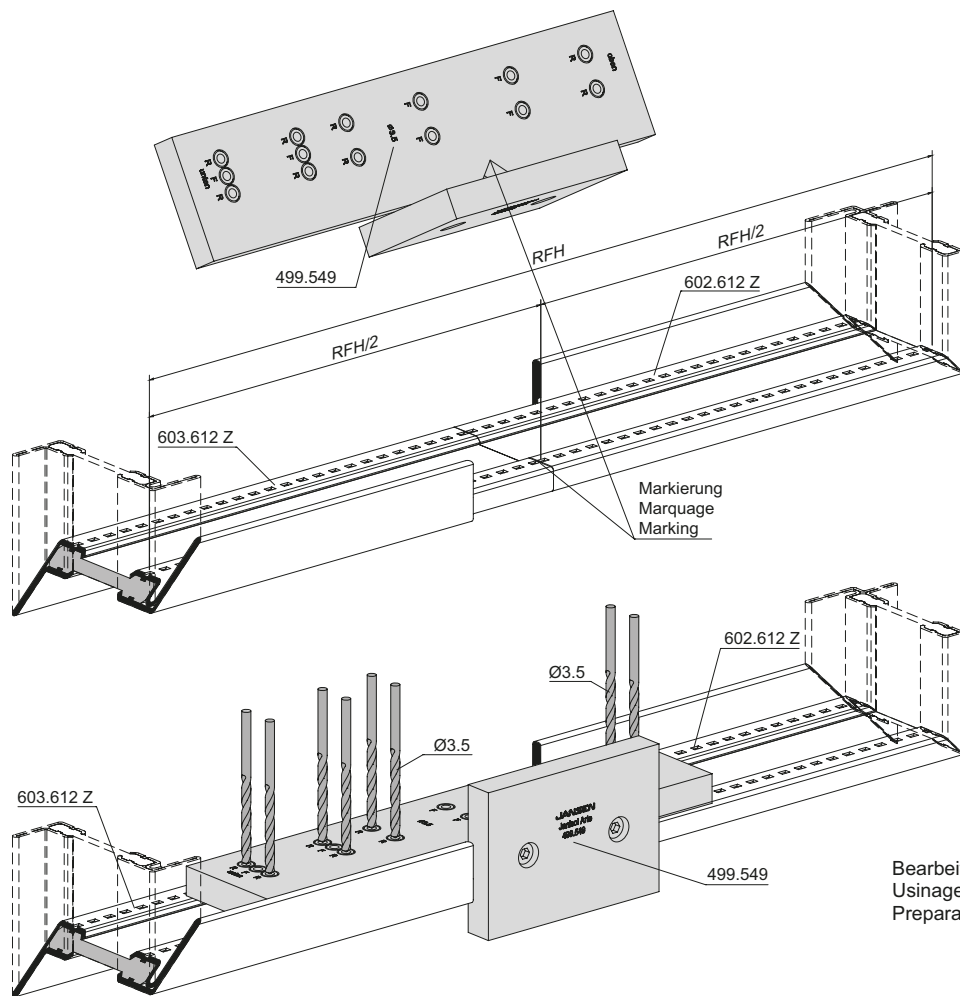
Ansicht von innen
 Vue de l'intérieur
 View from inside



**Bearbeitung Rahmen
 mit Bohrlehre 499.549
 seitlich**

**Usinage cadre
 avec gabarit de perçage 499.549
 latéral**

**Preparation frame
 with drilling jig 499.549
 lateral**



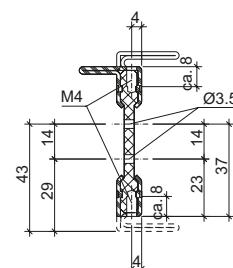
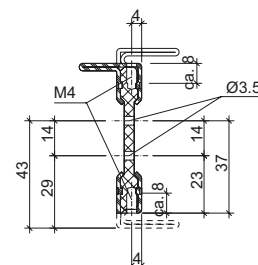
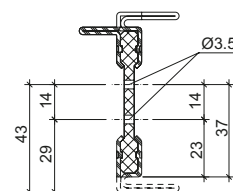
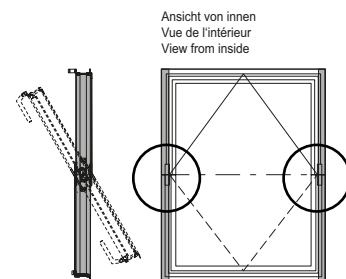
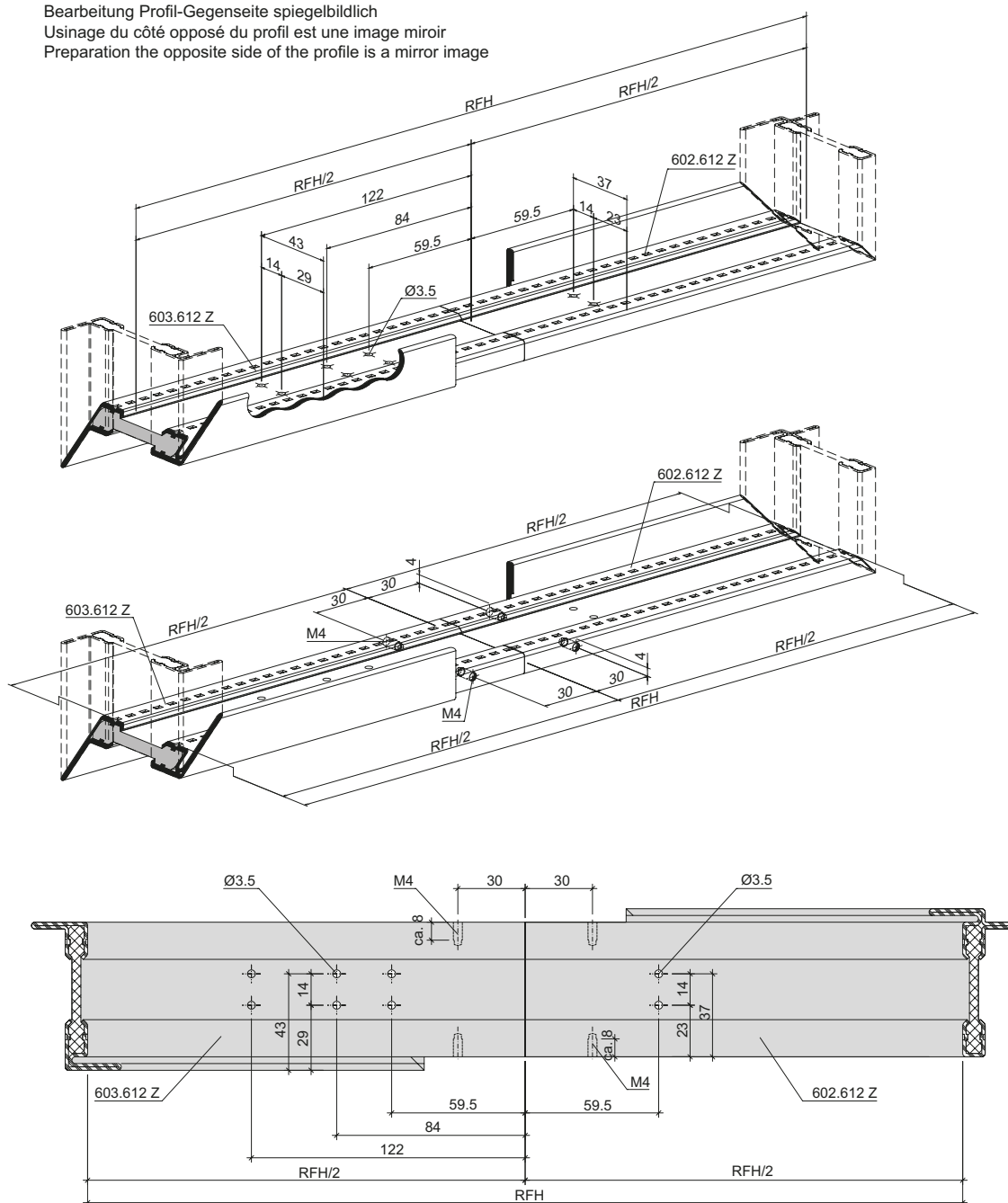
Bearbeitung Profil-Gegenseite spiegelbildlich
 Usinage du côté opposé du profil est une image miroir
 Preparation the opposite side of the profile is a mirror image

Bearbeitung Rahmen
Bohrbild
seitlich

Usinage cadre
Schéma de perçage
latéral

Preparation frame
Drilling pattern
lateral

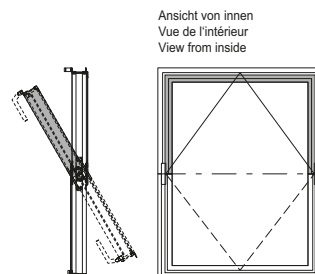
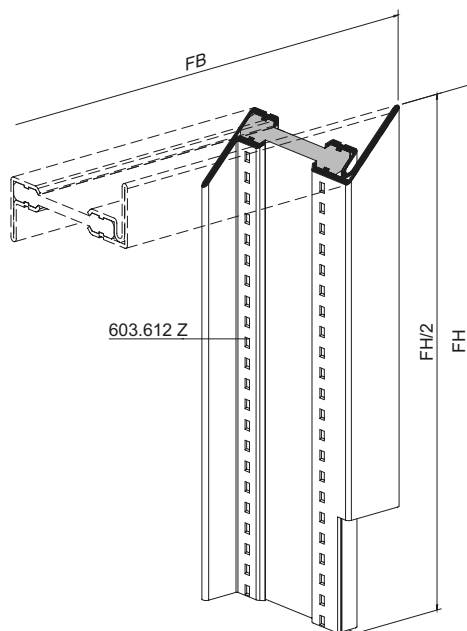
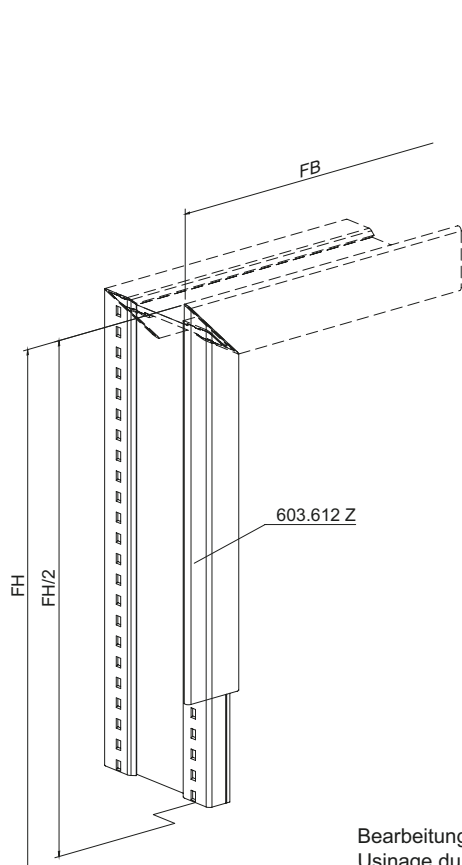
Bearbeitung Profil-Gegenseite spiegelbildlich
 Usinage du côté opposé du profil est une image miroir
 Preparation the opposite side of the profile is a mirror image



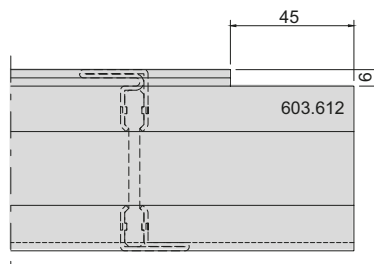
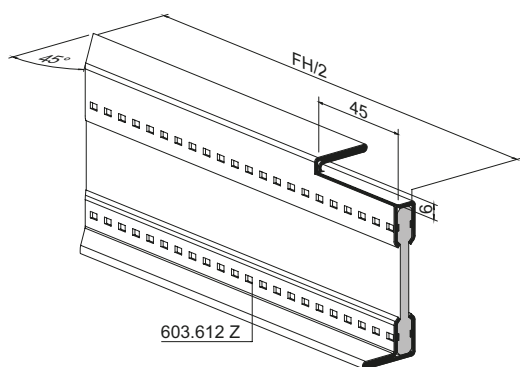
**Zuschnitt Flügel
oben**

**Découpe vantail
en haut**

**Cutting the sash
top**



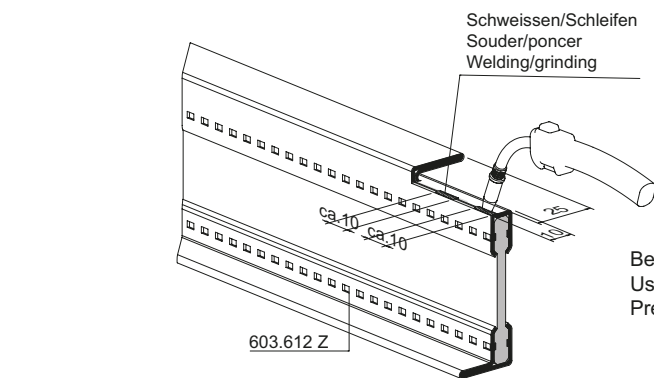
Bearbeitung Profil-Gegenseite spiegelbildlich
 Usage du côté opposé du profil est une image miroir
 Preparation the opposite side of the profile is a mirror image



**Bearbeitung Flügel
 oben seitlich**

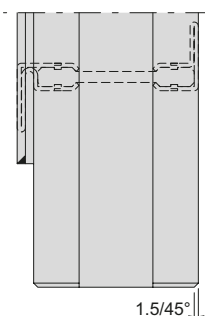
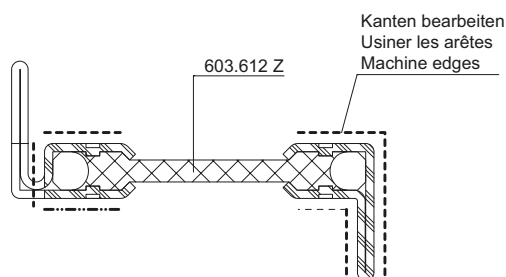
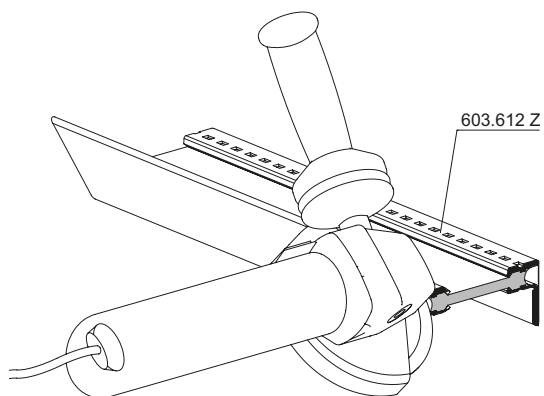
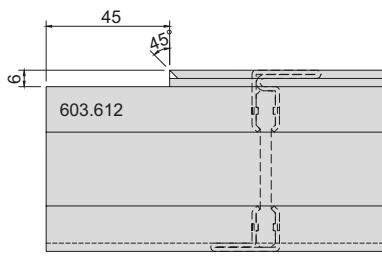
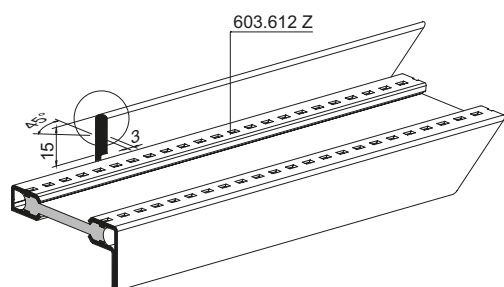
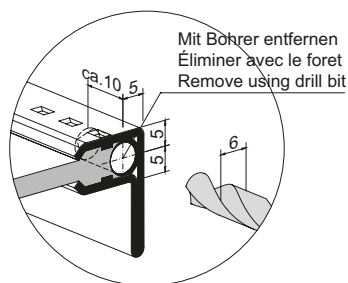
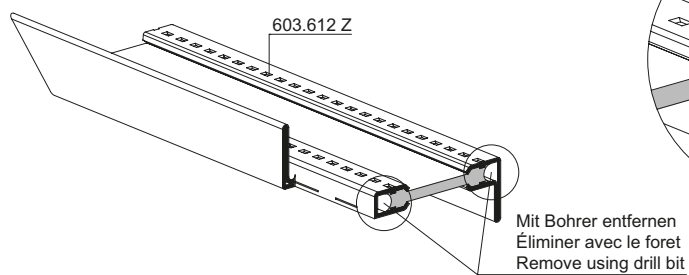
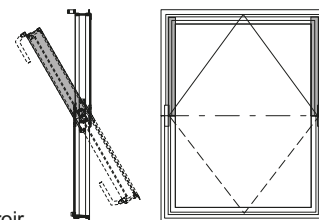
**Usinage vantail
 en haut latéral**

**Preparing the sash
 top lateral**



Bearbeitung Profil-Gegenseite spiegelbildlich
 Usinage du côté opposé du profil est une image miroir
 Preparation the opposite side of the profile is a mirror image

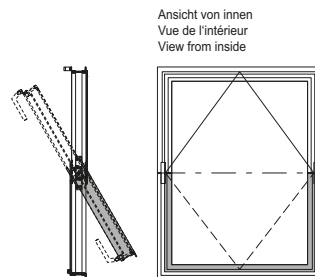
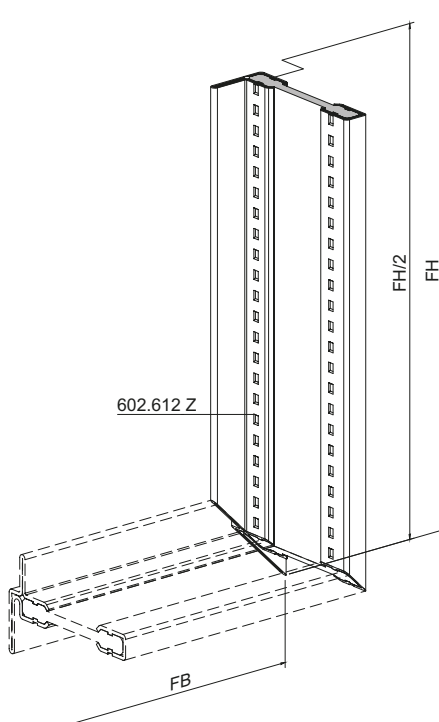
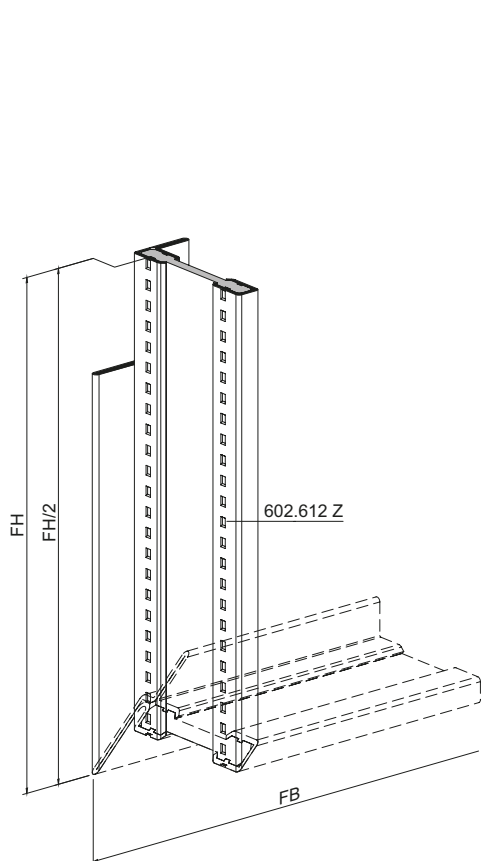
Ansicht von innen
 Vue de l'intérieur
 View from inside



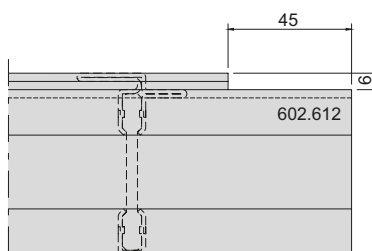
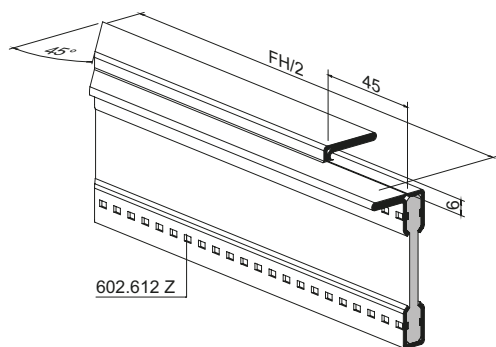
**Zuschnitt Flügel
 unten**

**Découpe vantail
 en bas**

**Cutting the sash
 bottom**



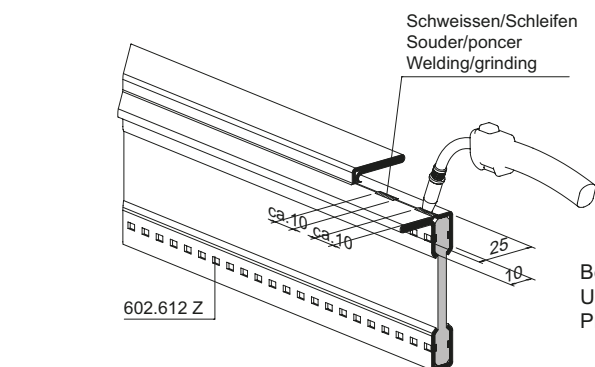
Bearbeitung Profil-Gegenseite spiegelbildlich
 Usinage du côté opposé du profil est une image miroir
 Preparation the opposite side of the profile is a mirror image



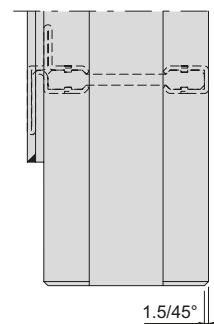
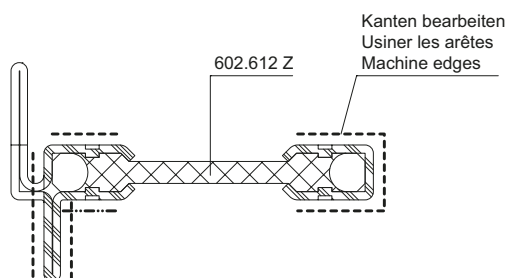
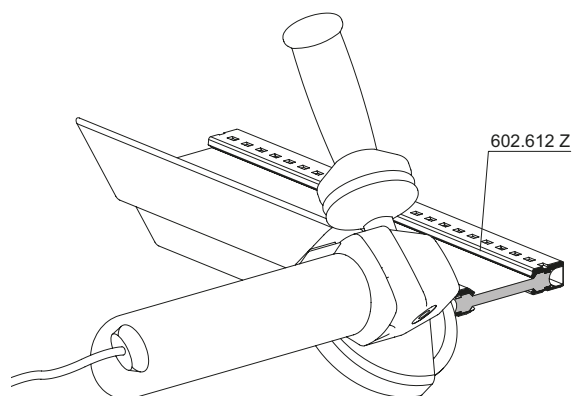
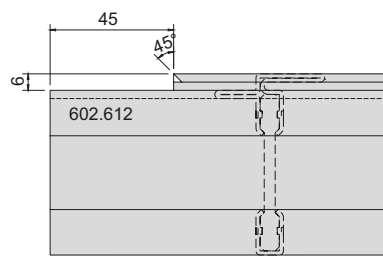
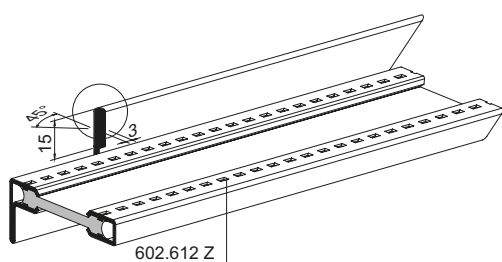
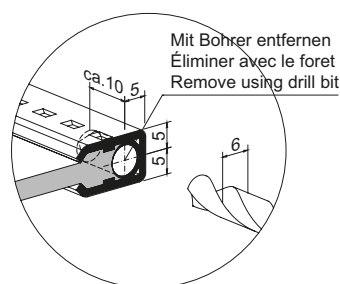
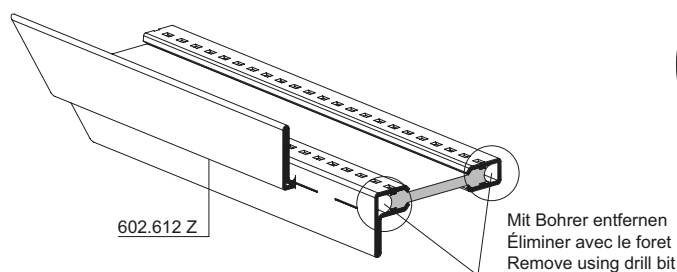
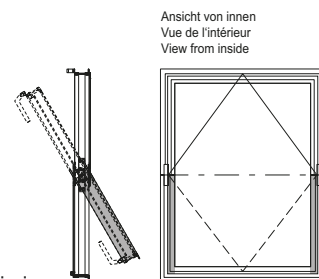
Bearbeitung Flügel
unten seitlich

Usinage vantail
en bas latéral

Preparing the sash
bottom lateral



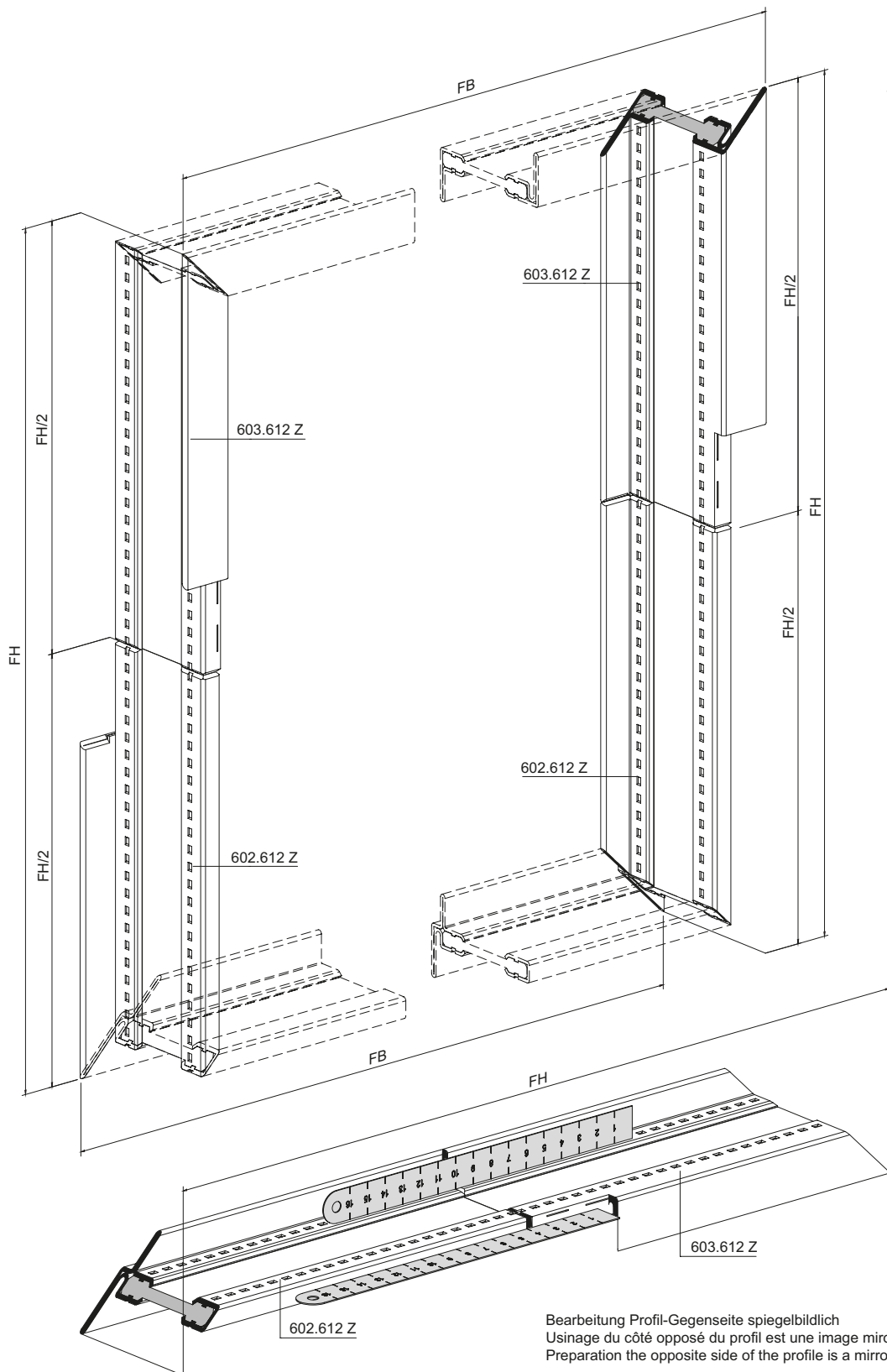
Bearbeitung Profil-Gegenseite spiegelbildlich
 Usinage du côté opposé du profil est une image miroir
 Preparation the opposite side of the profile is a mirror image



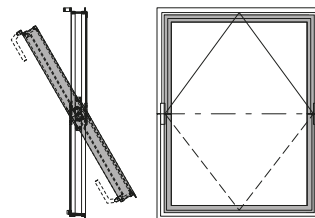
Zusammenbau Flügel

Assemblage de vantail

Assembly of sash



Ansicht von innen
Vue de l'intérieur
View from inside

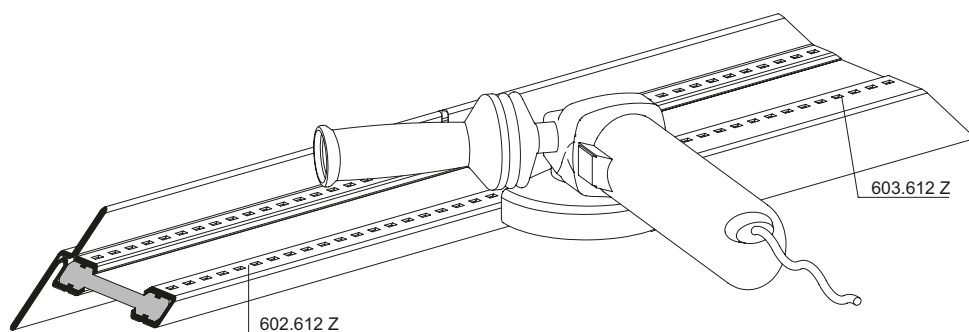
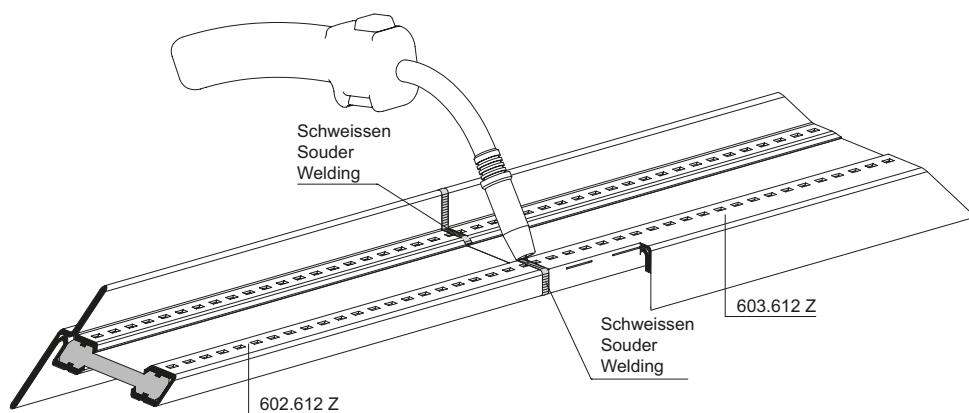
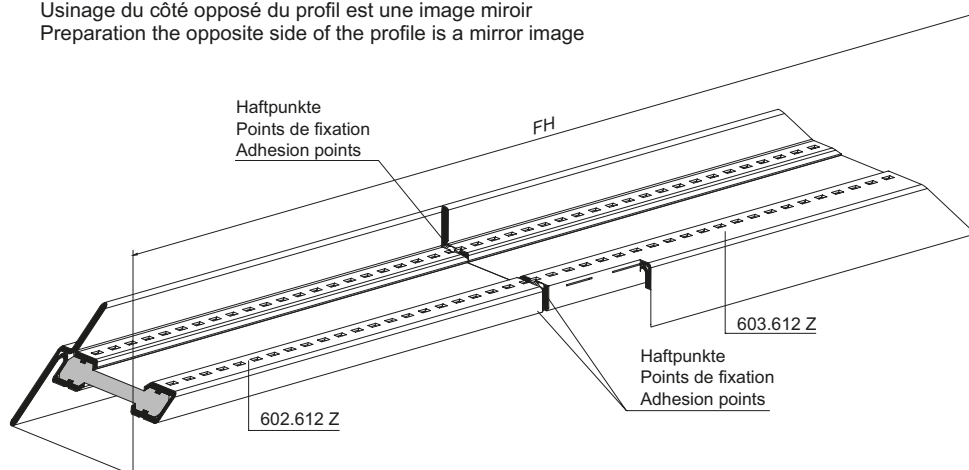


**Bearbeitung Flügel
 seitlich**

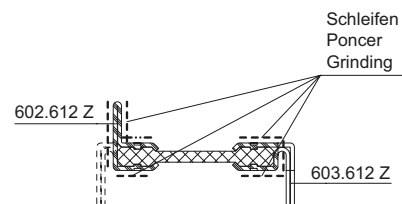
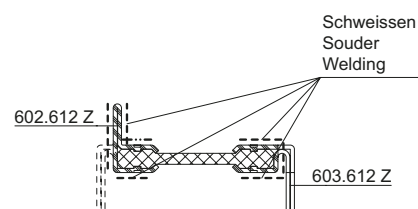
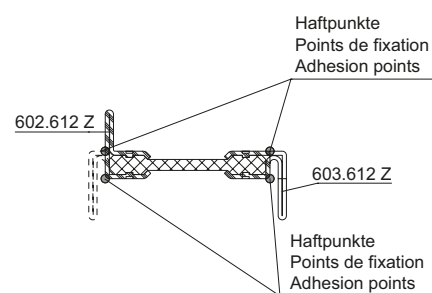
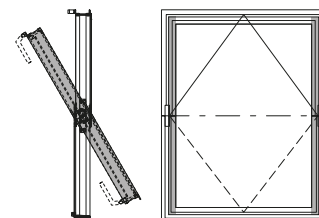
**Usinage vantail
 latéral**

**Preparing the sash
 lateral**

Bearbeitung Profil-Gegenseite spiegelbildlich
 Usinage du côté opposé du profil est une image miroir
 Preparation the opposite side of the profile is a mirror image



Ansicht von innen
 Vue de l'intérieur
 View from inside

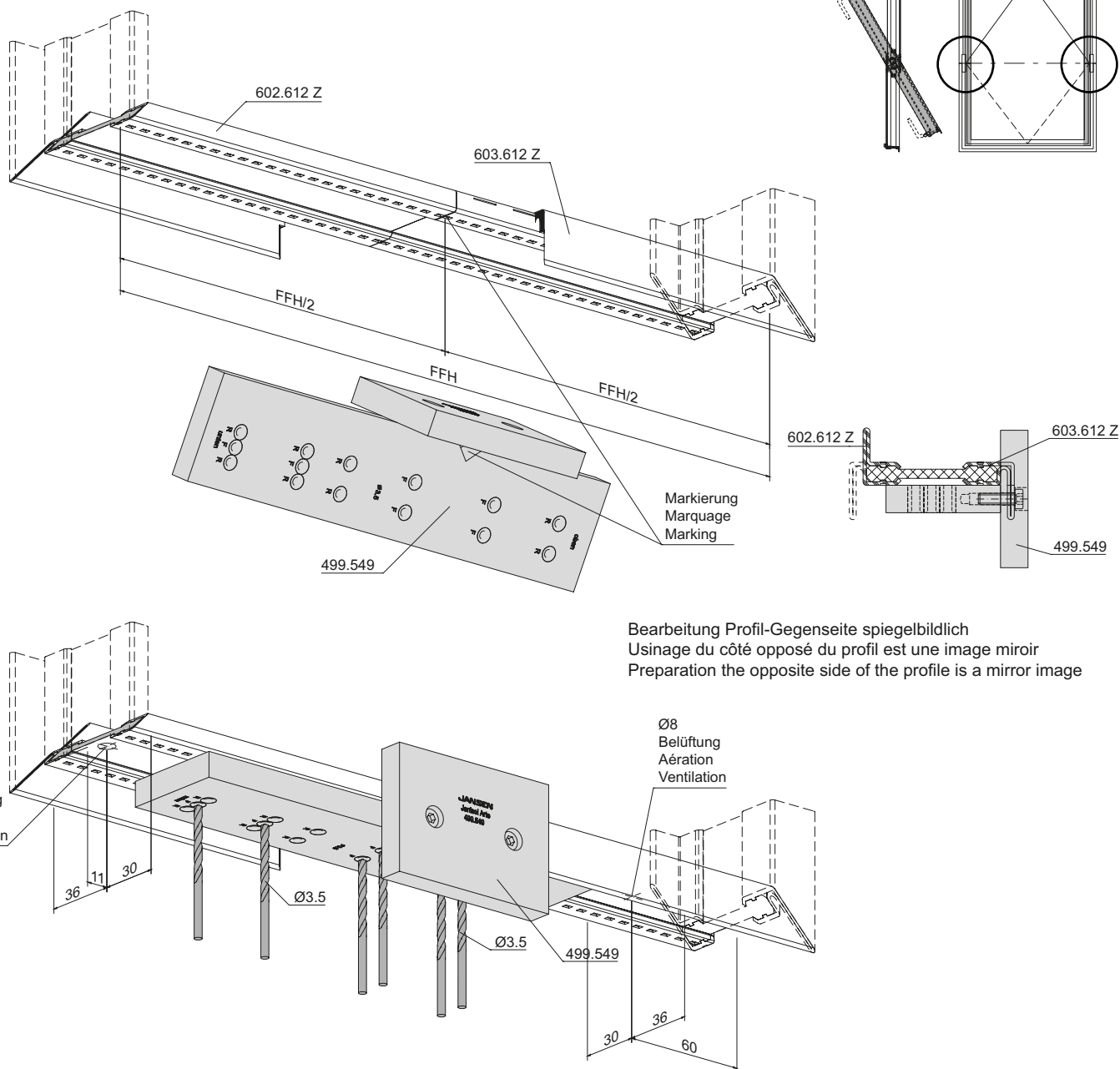


**Bearbeitung Flügel
 mit Bohrlehre 499.549
 seitlich**

**Usinage vantail
 avec gabarit de perçage 499.549
 latéral**

**Preparing the sash
 with drilling jig 499.549
 lateral**

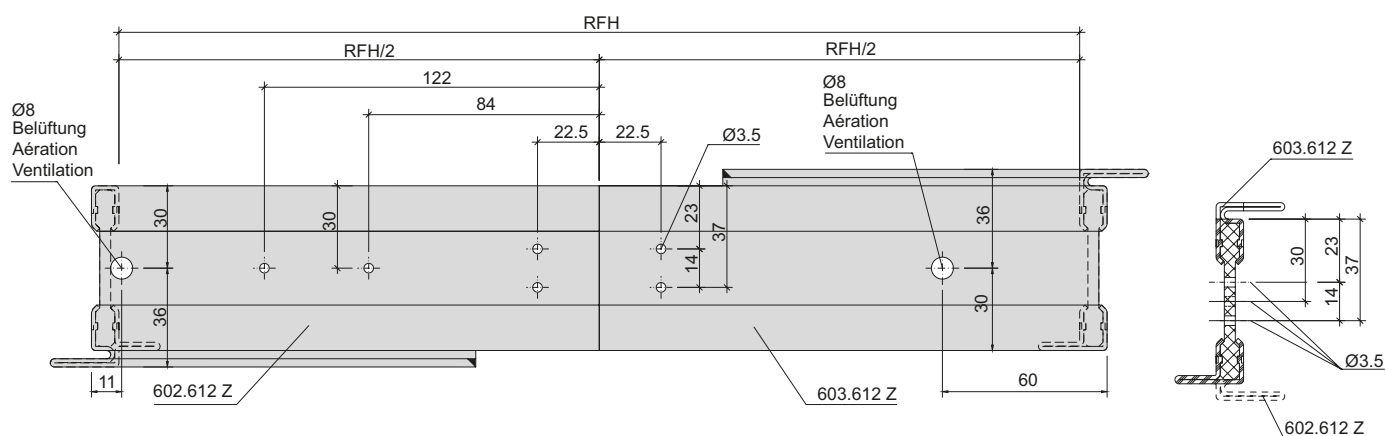
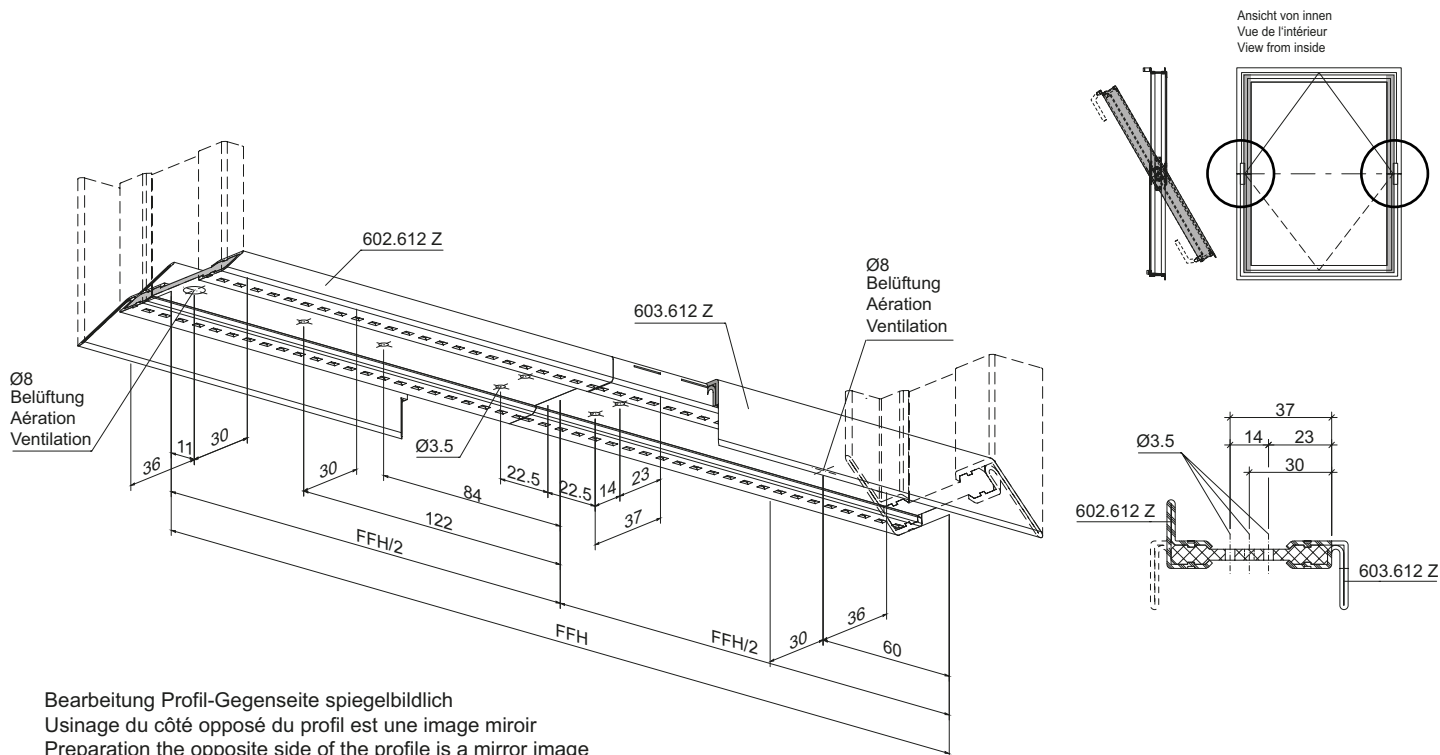
Ansicht von innen
 Vue de l'intérieur
 View from inside



Bearbeitung Flügel
Bohrbild seitlich

Usinage vantail
Schéma de perçage latéral

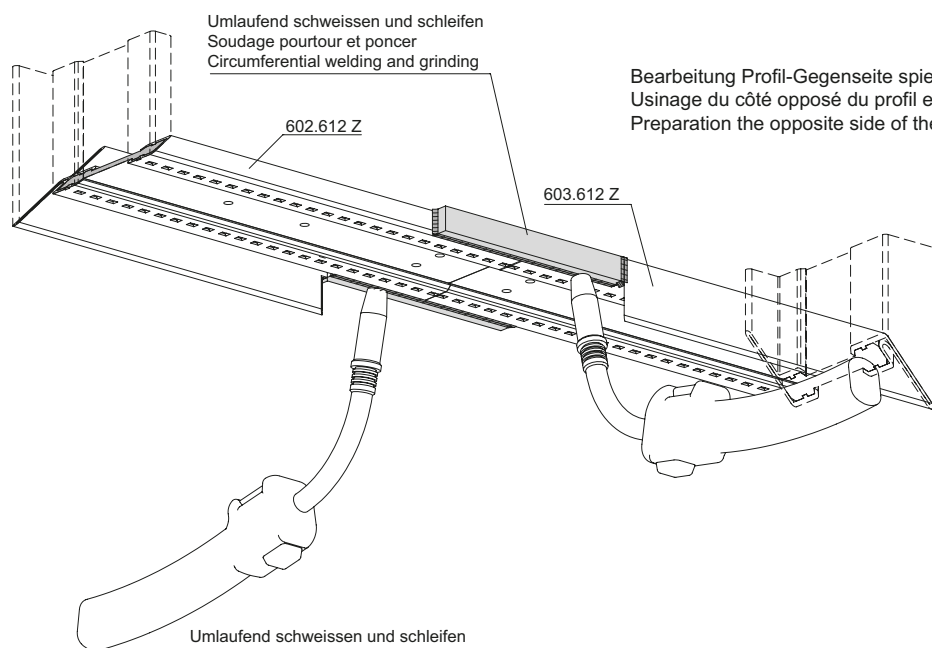
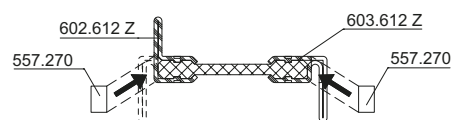
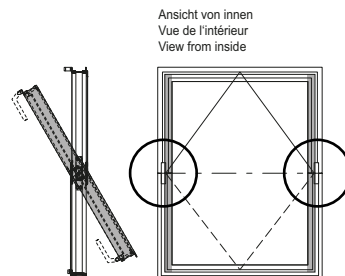
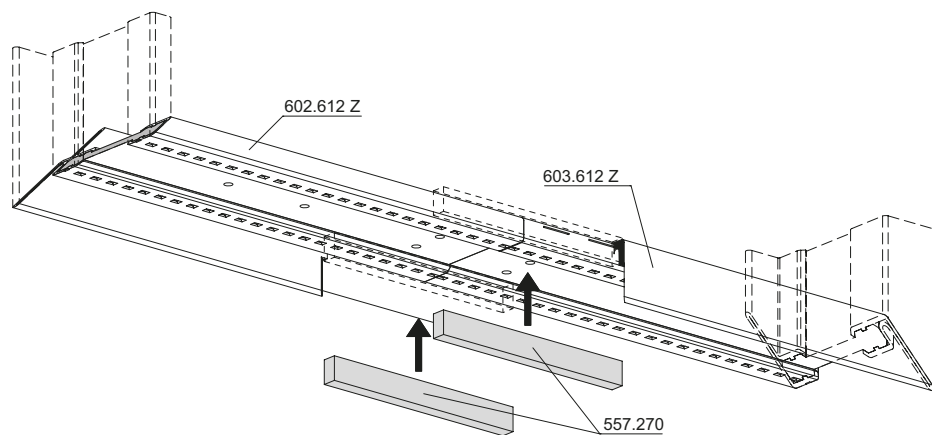
Preparing the sash
Drilling pattern lateral



Einbau Wechsel
557.270
Flügel seitlich

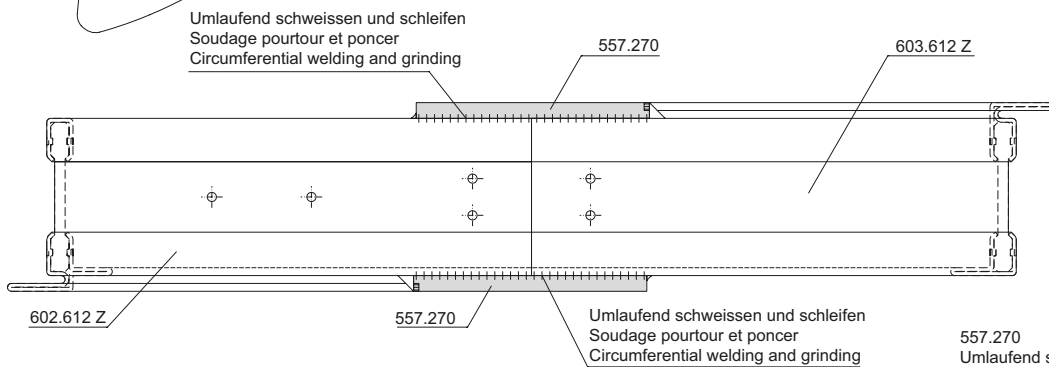
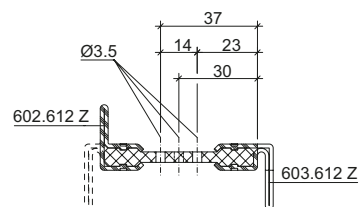
Montage compas basculant
555.270
Vantail latéral

Installation of horizontal pivot
557.270
Sash lateral



Umlaufend schweißen und schleifen
 Soudage pourtour et poncer
 Circumferential welding and grinding

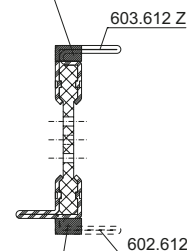
Bearbeitung Profil-Gegenseite spiegelbildlich
 Usinage du côté opposé du profil est une image miroir
 Preparation the opposite side of the profile is a mirror image



Umlaufend schweißen und schleifen
 Soudage pourtour et poncer
 Circumferential welding and grinding

Umlaufend schweißen und schleifen
 Soudage pourtour et poncer
 Circumferential welding and grinding

557.270
 Umlaufend schweißen und schleifen
 Soudage pourtour et poncer
 Circumferential welding and grinding

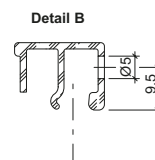
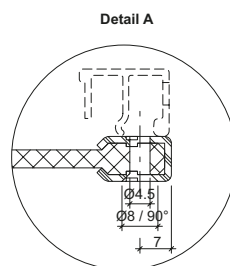
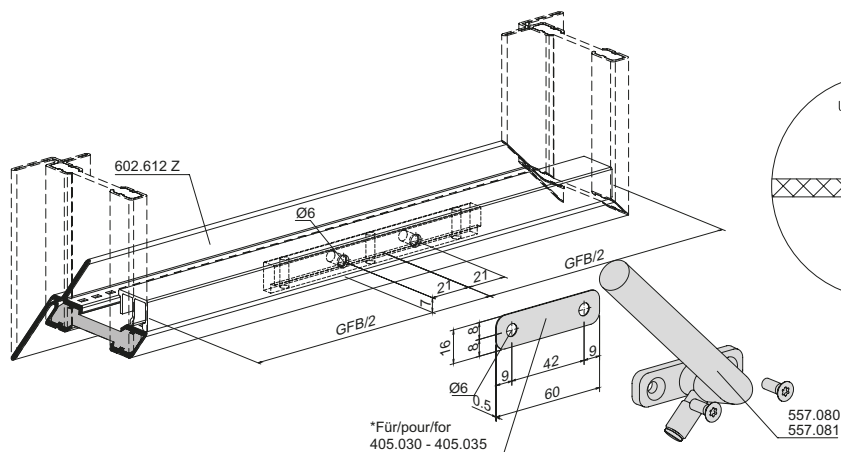
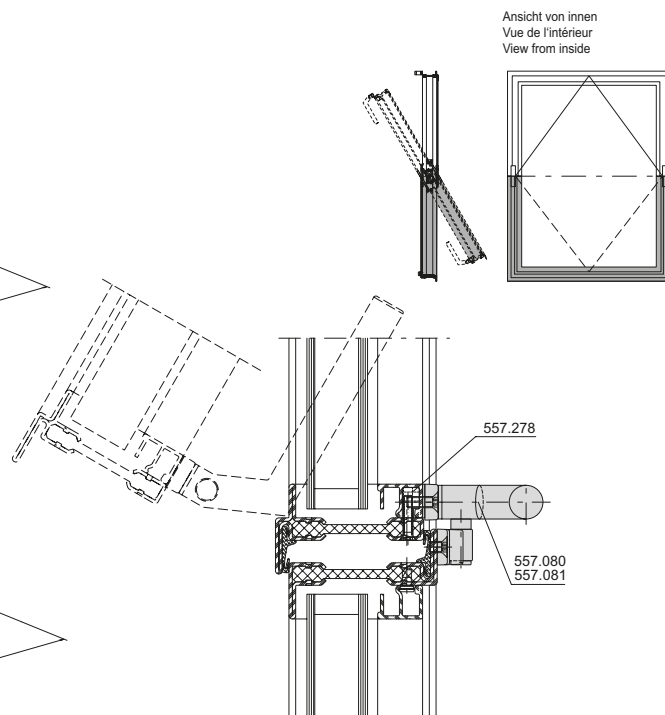
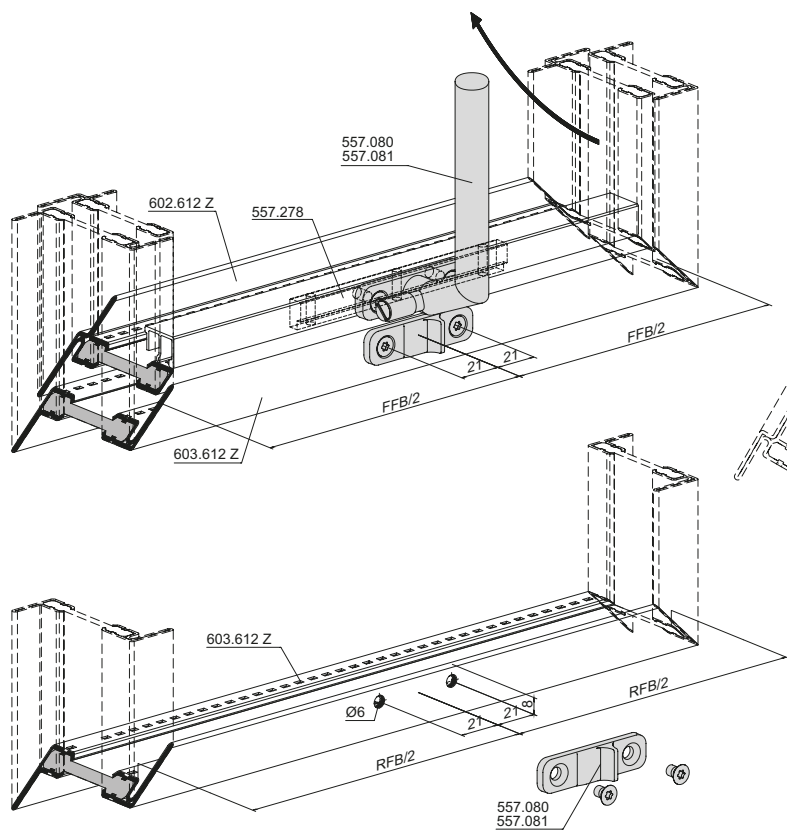


557.270
 Umlaufend schweißen und schleifen
 Soudage pourtour et poncer
 Circumferential welding and grinding

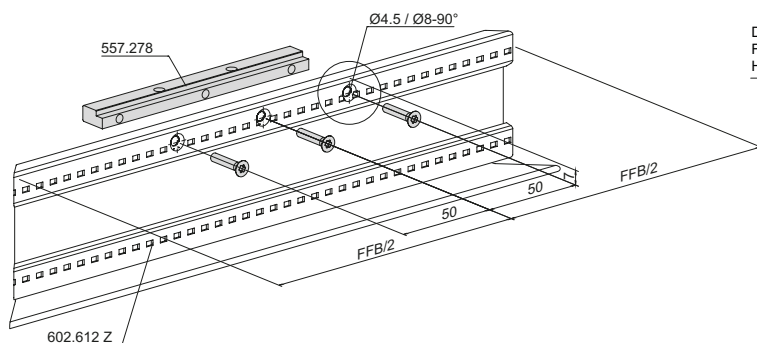
Einbau Fenstergriff
557.080 / 557.081
unten

Montage de la poignée
557.080 / 557.081
en bas

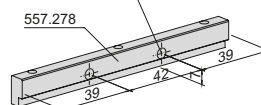
Installation of handle
557.080 / 557.081
bottom



- * Durch Metallbauer zu fertigen
- * A fabriquer par le métallier
- * To be made by fabricator



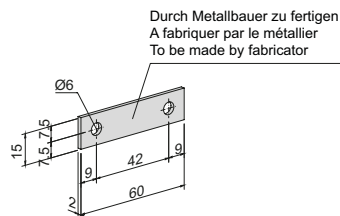
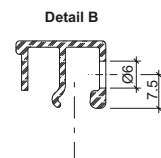
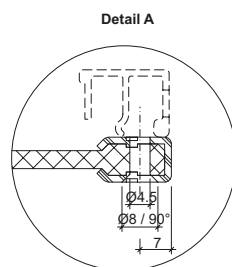
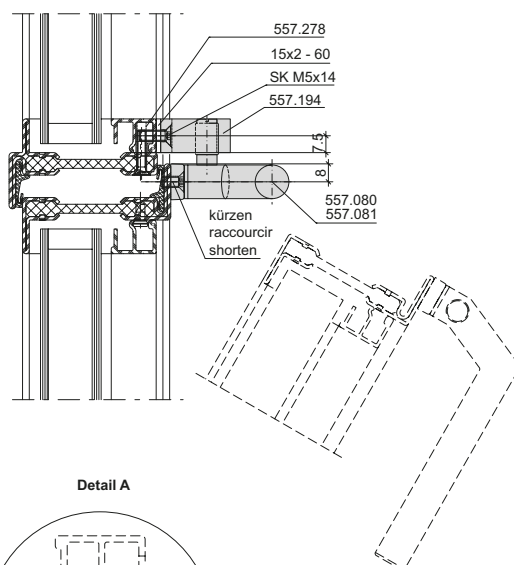
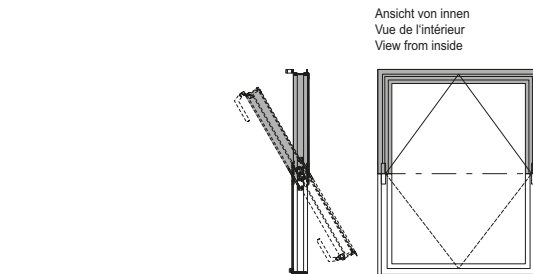
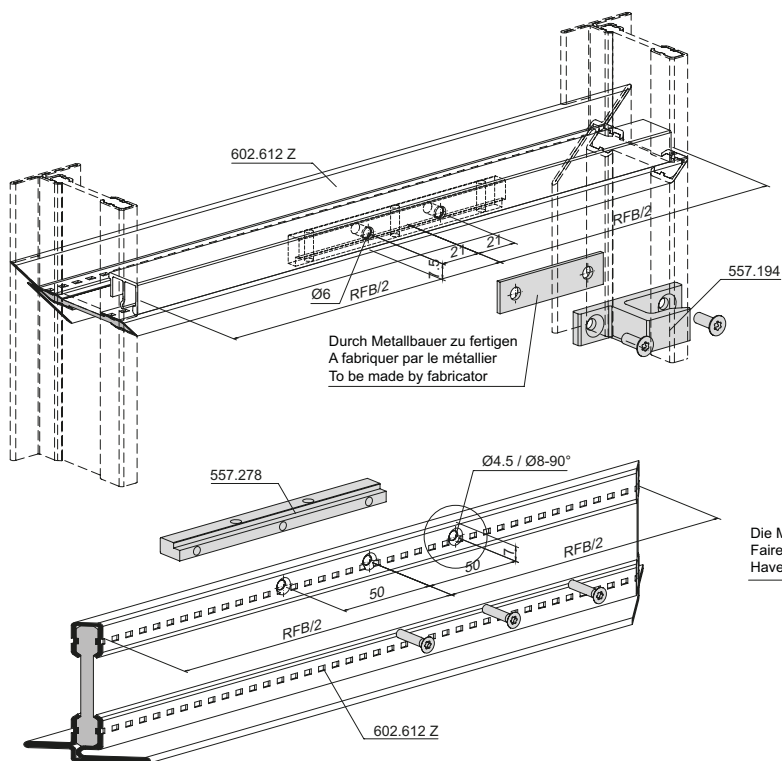
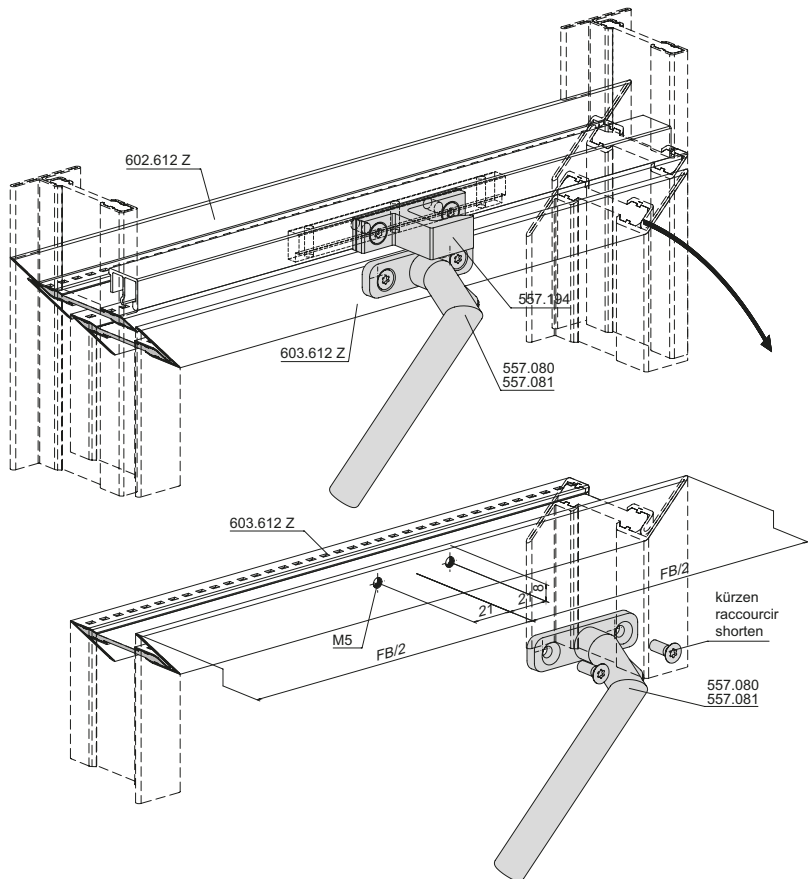
Die M5-Bohrung durch Metallbauer ausführen
Faire effectuer le perçage M5 par le constructeur métallique
Have a metalworker drill the M5 hole



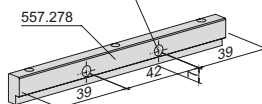
Einbau Fenstergriff
557.080 / 557.081
mit Verriegelungshaken 557.194
oben

Montage de la poignée
557.080 / 557.081
avec boulon de verrouillage 557.194
en haut

Installation of handle
557.080 / 557.081
with locking pin 557.194
top



Die M5-Bohrung durch Metallbauer ausführen
 Faire effectuer le perçage M5 par le constructeur métallique
 Have a metalworker drill the M5 hole

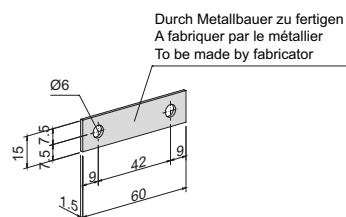
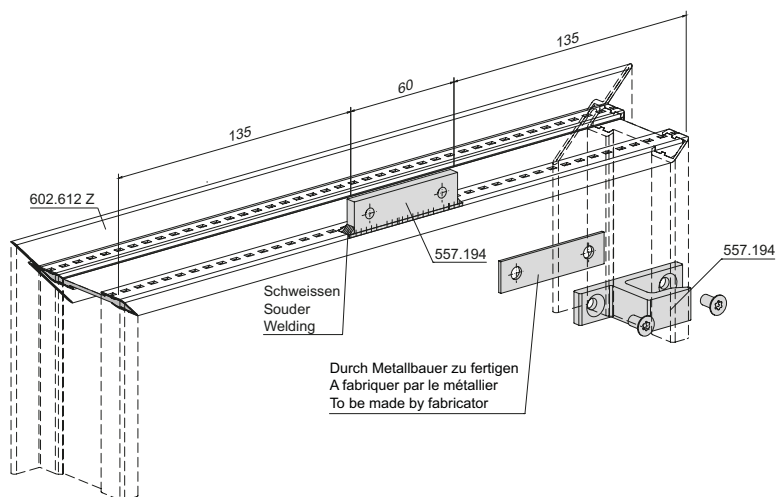
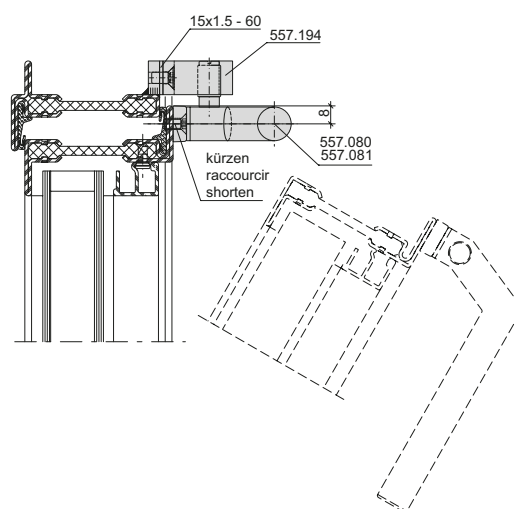
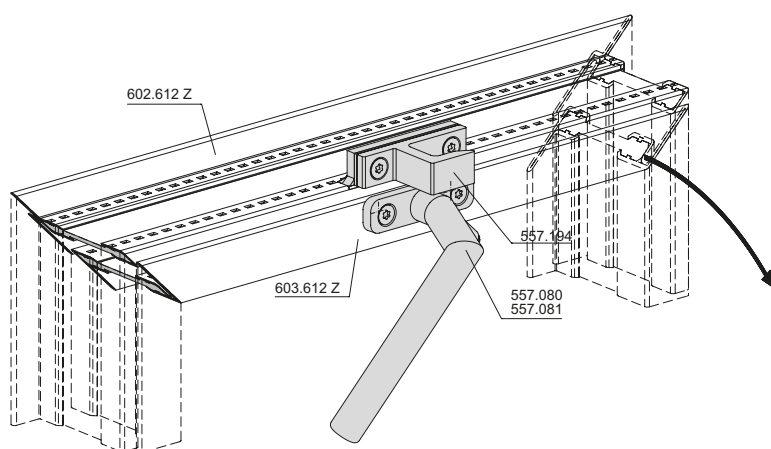


Einbau Fenstergriff
557.080 / 557.081
mit Verriegelungshaken 557.194
oben

Montage de la poignée
557.080 / 557.081
avec boulon de verrouillage 557.194
en haut

Installation of handle
557.080 / 557.081
with locking pin 557.194
top

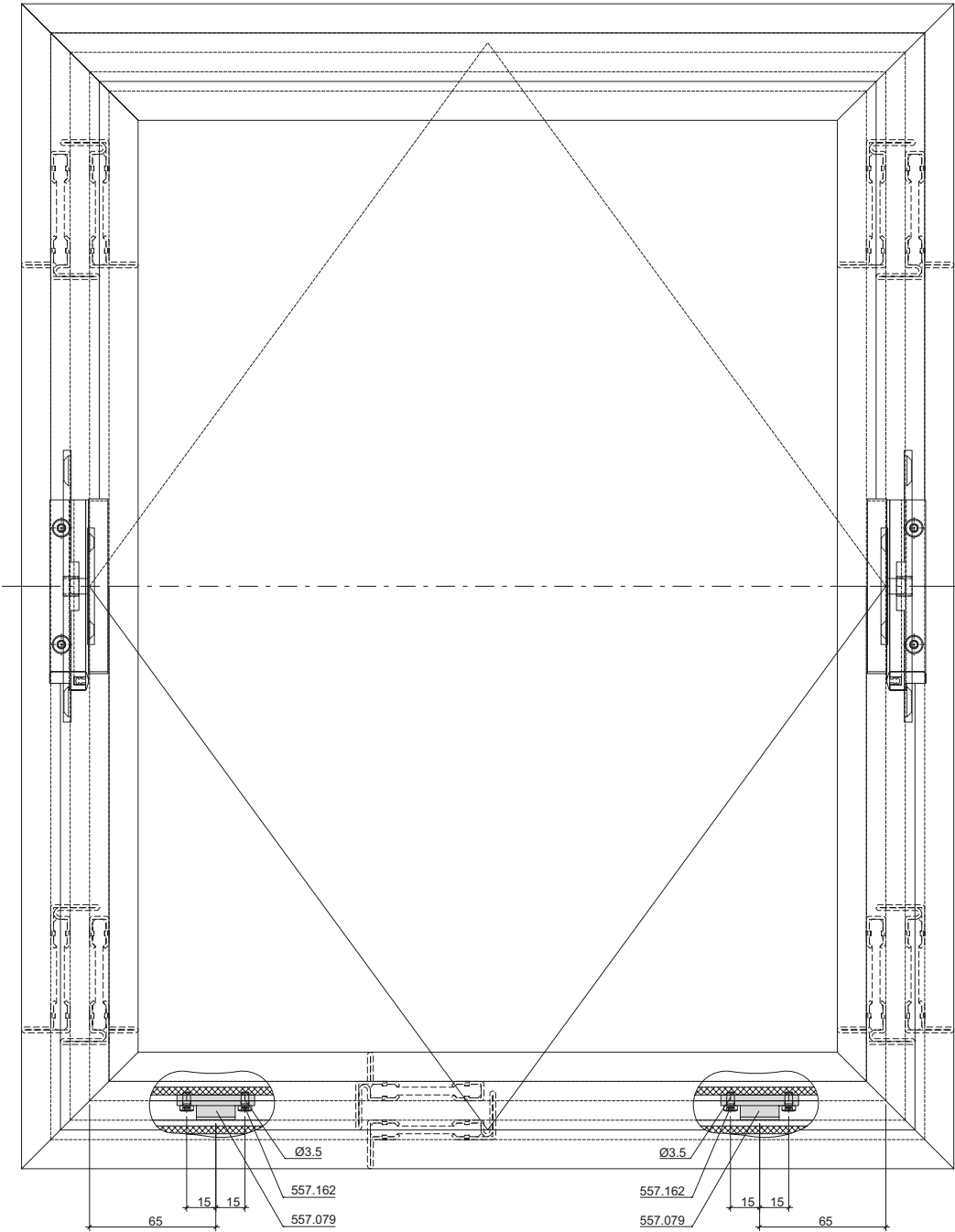
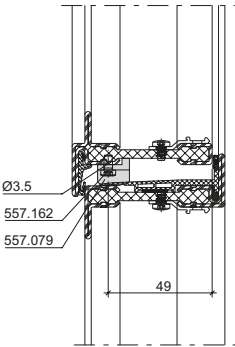
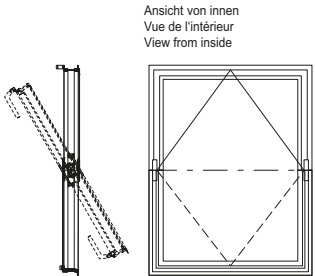
Ansicht von innen
 Vue de l'intérieur
 View from inside



Einbau
Auflaufbock 557.079

Montage
Bloc d'arrêt 557.079

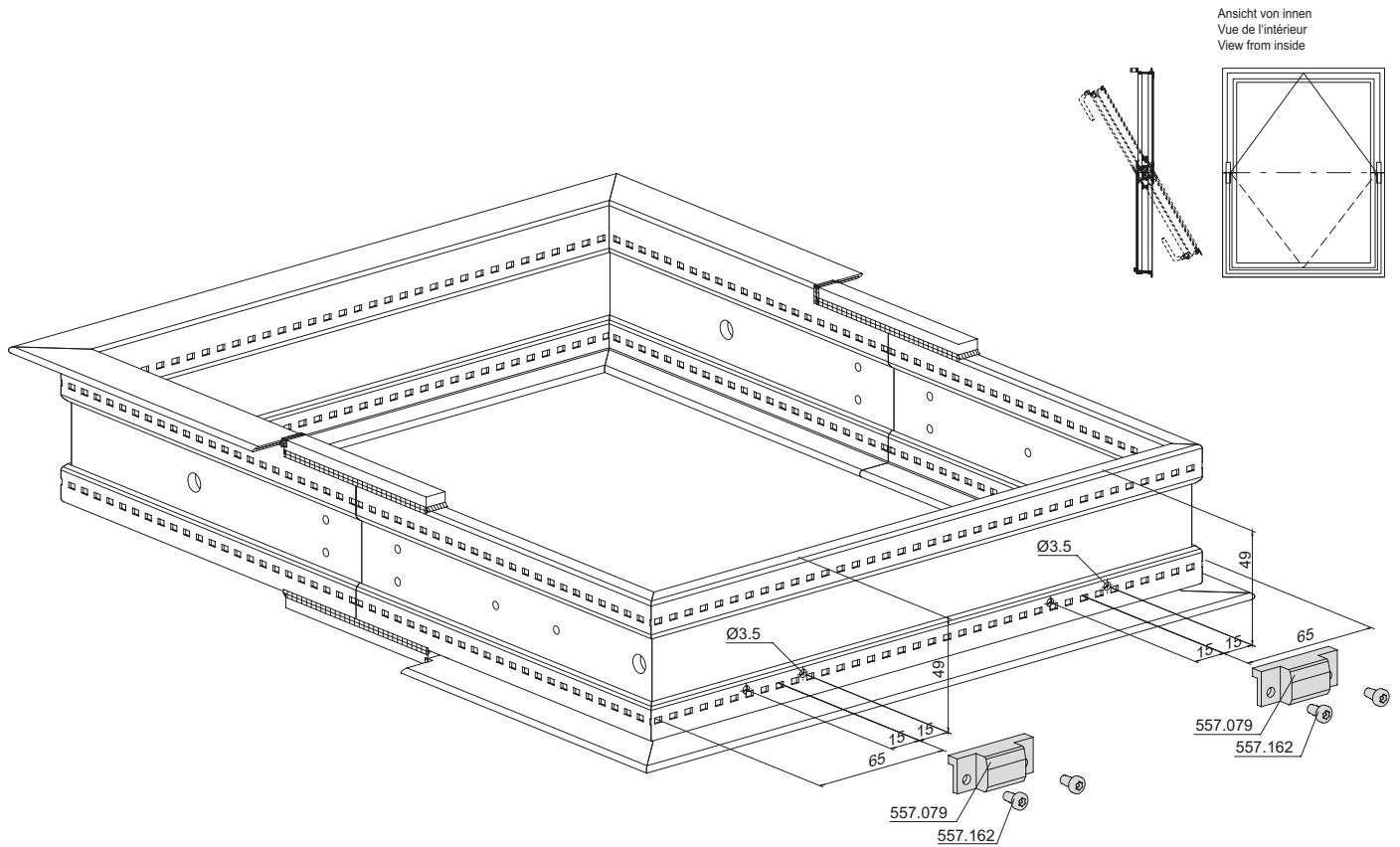
Installation
Engagement block 557.079



Auflaufbock 557.079

Bloc d'arrêt 557.079

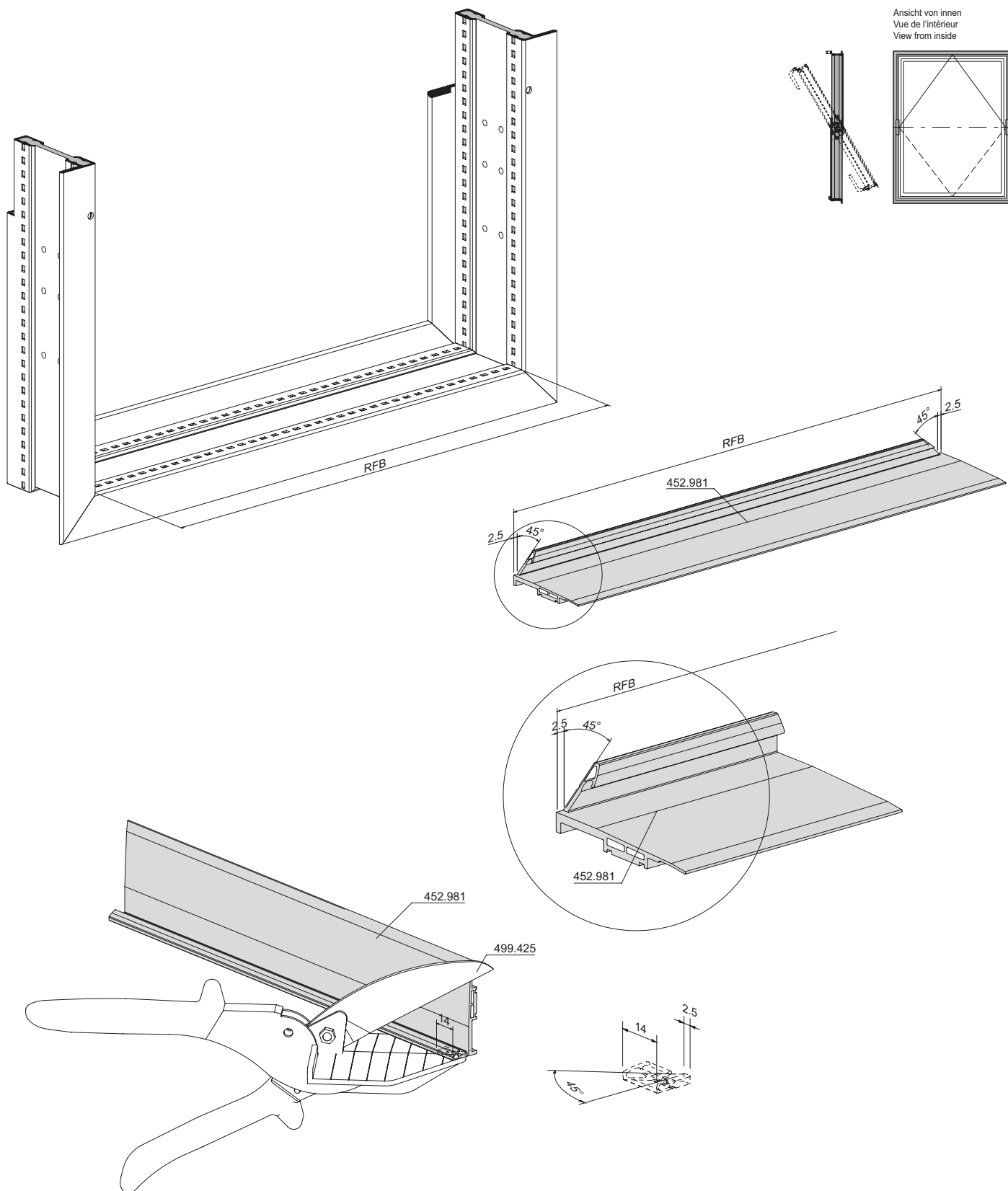
Engagement block 557.079



Zuschnitt
Entwässerungsprofil 452.981

Découpe
Profilé de drainage 452.981

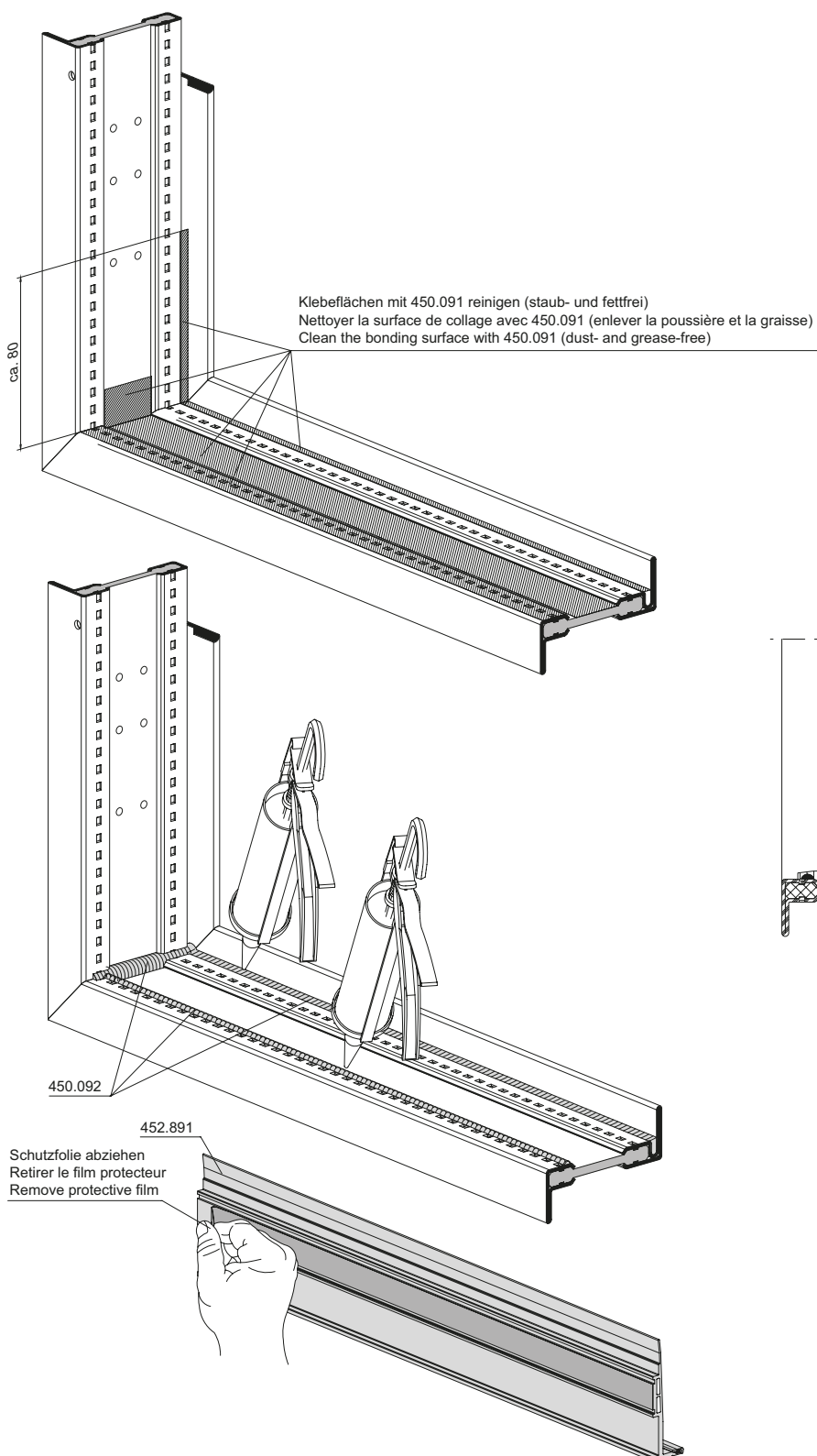
Installation
Drainage profile 452.981



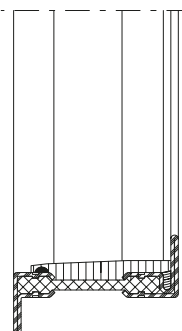
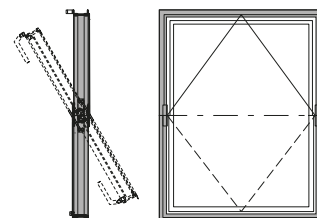
Einbau
Entwässerungsprofil 452.981

Montage
Profilé de drainage 452.981

Installation
Drainage profile 452.981



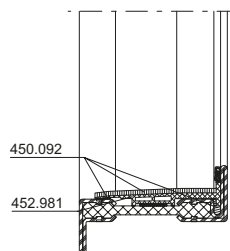
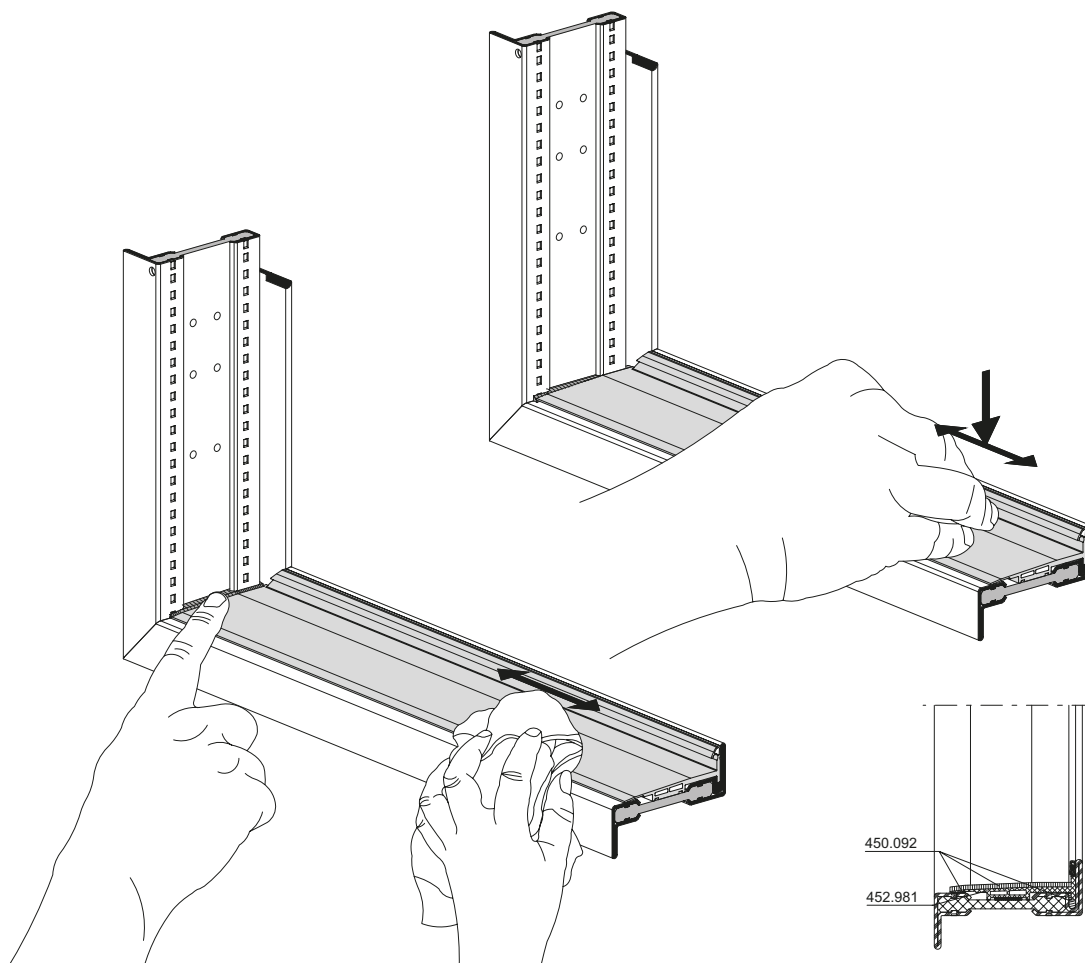
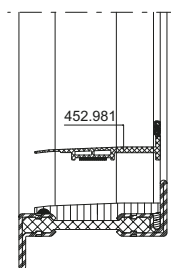
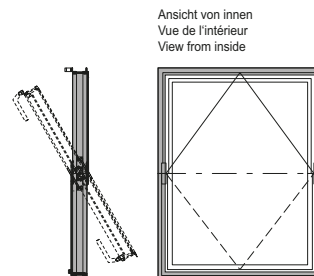
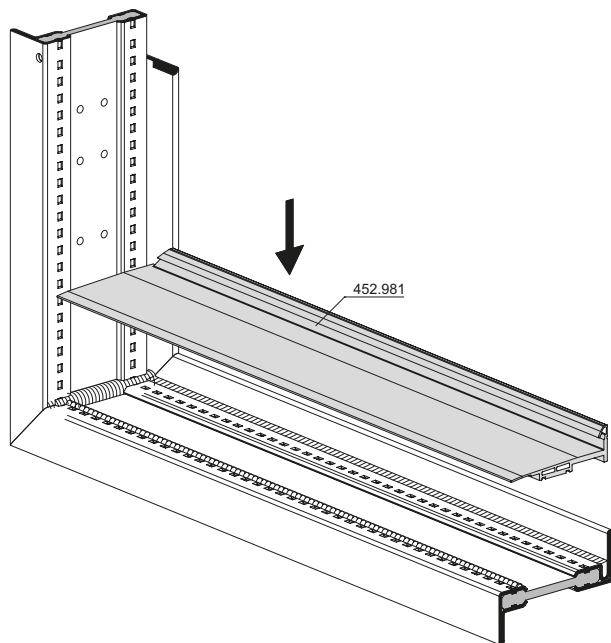
Ansicht von innen
 Vue de l'intérieur
 View from inside



Einbau
Entwässerungsprofil 452.981

Montage
Profilé de drainage 452.981

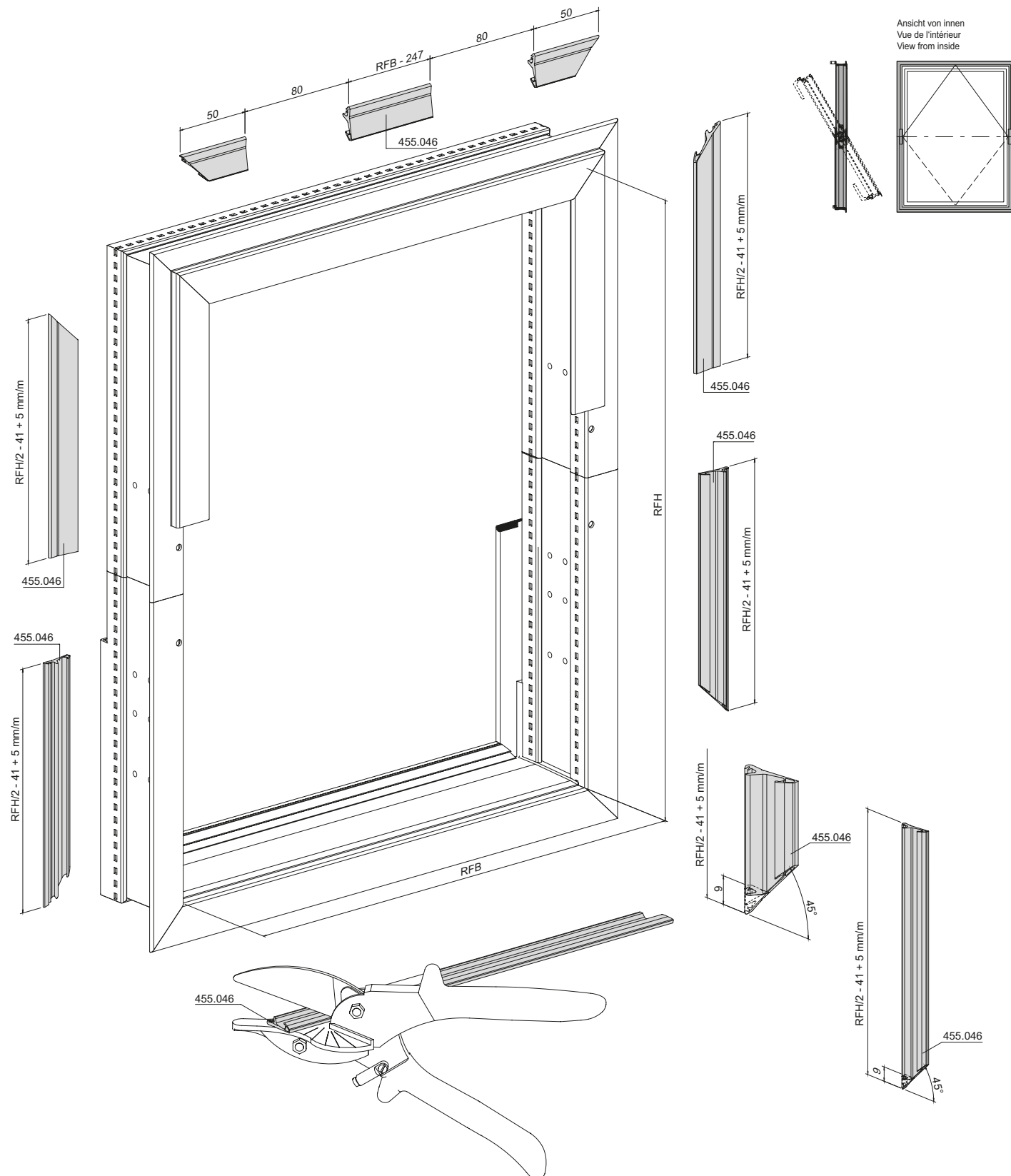
Installation
Drainage profile 452.981



Einbau
Anschlagdichtung 455.046
Rahmen

Montage
Joint de butée 455.046
Cadre

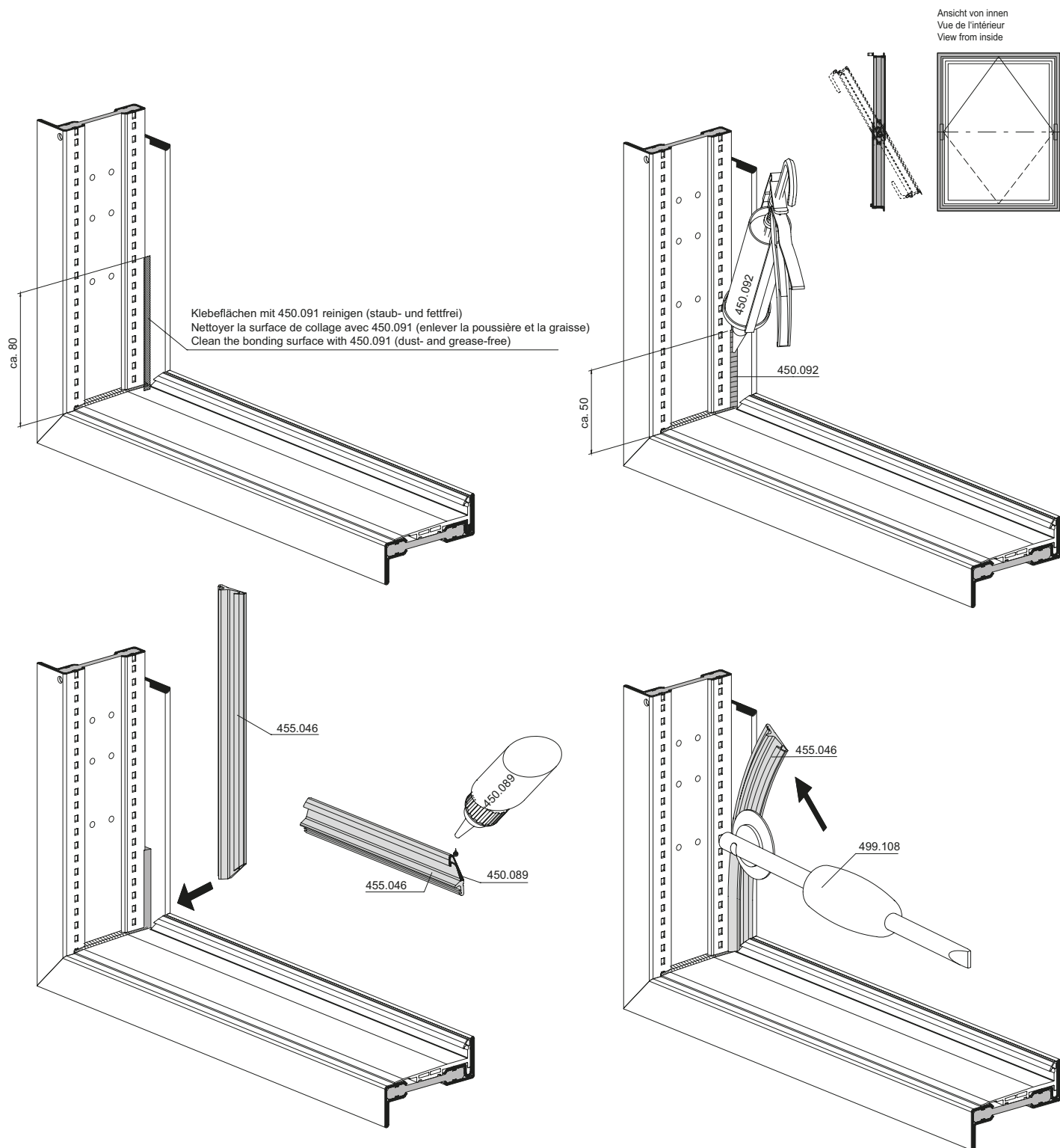
Installation
Rebate weatherstrip 455.046
Frame



Einbau
Anschlagdichtung 455.046
Rahmen

Montage
Joint de butée 455.046
Cadre

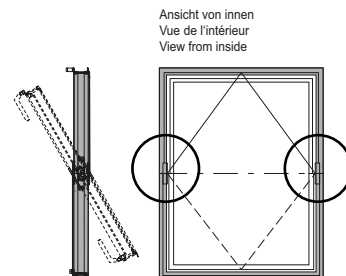
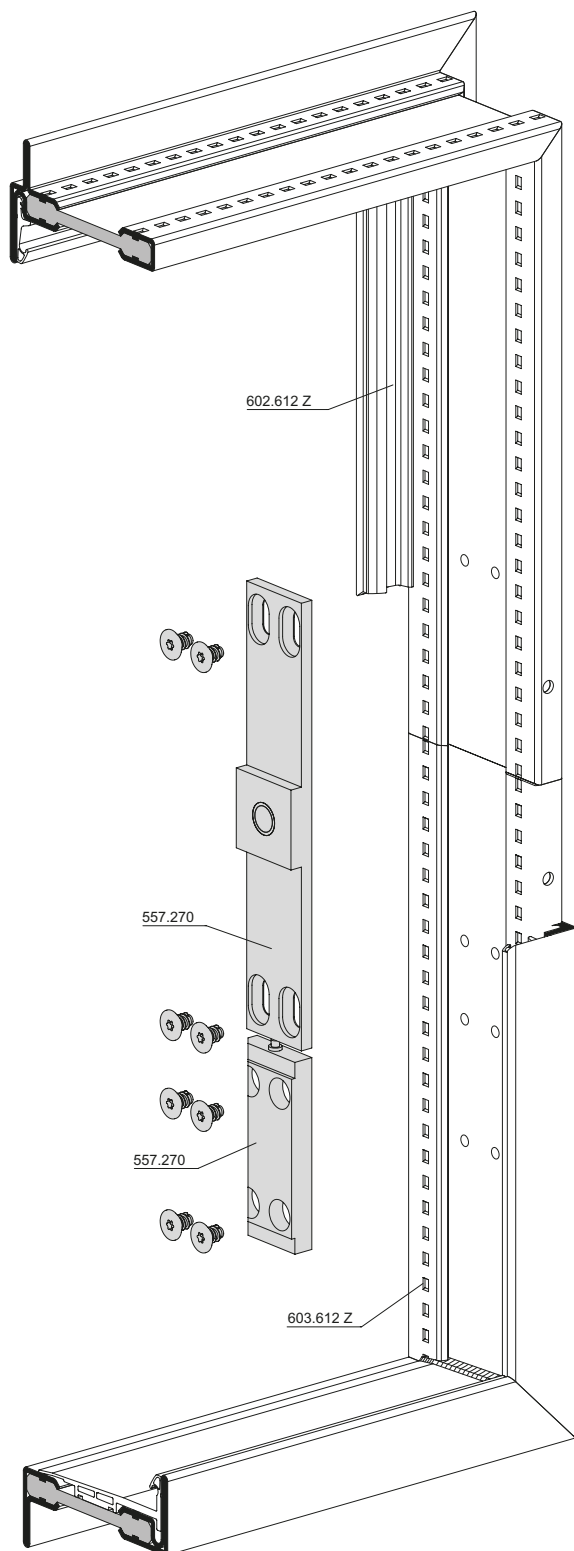
Installation
Rebate weatherstrip 455.046
Frame



Einbau
Schwinglager 557.270
inkl. Höhenbegrenzer
Rahmen

Montage
Compas basculant 557.270
avec limiteur de hauteur
Cadre

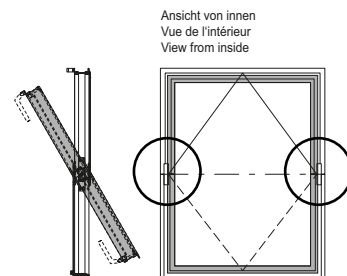
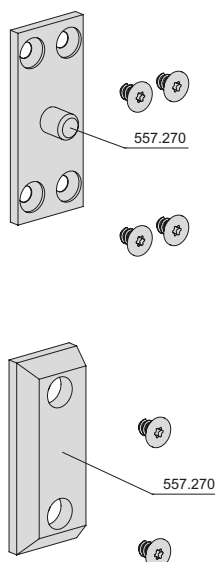
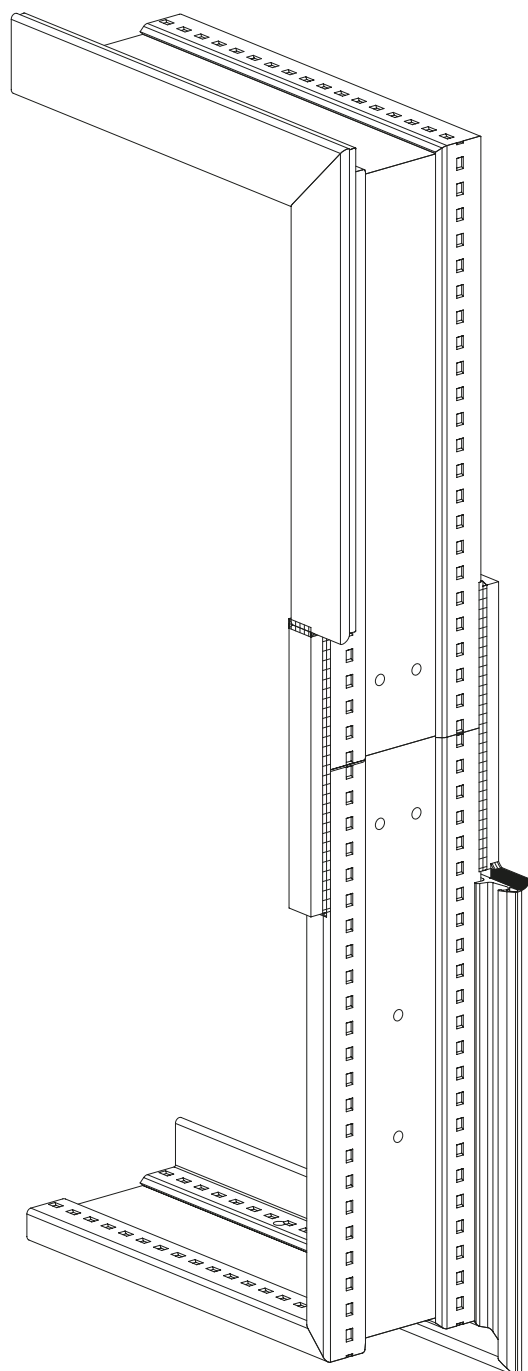
Installation
Horizontal pivot 557.270
incl. height limiter
Frame



Einbau
Schwinglager 557.270
inkl. Seitenführung
Flügel

Montage
Compas basculant 557.270
avec guidage latéral
Vantail

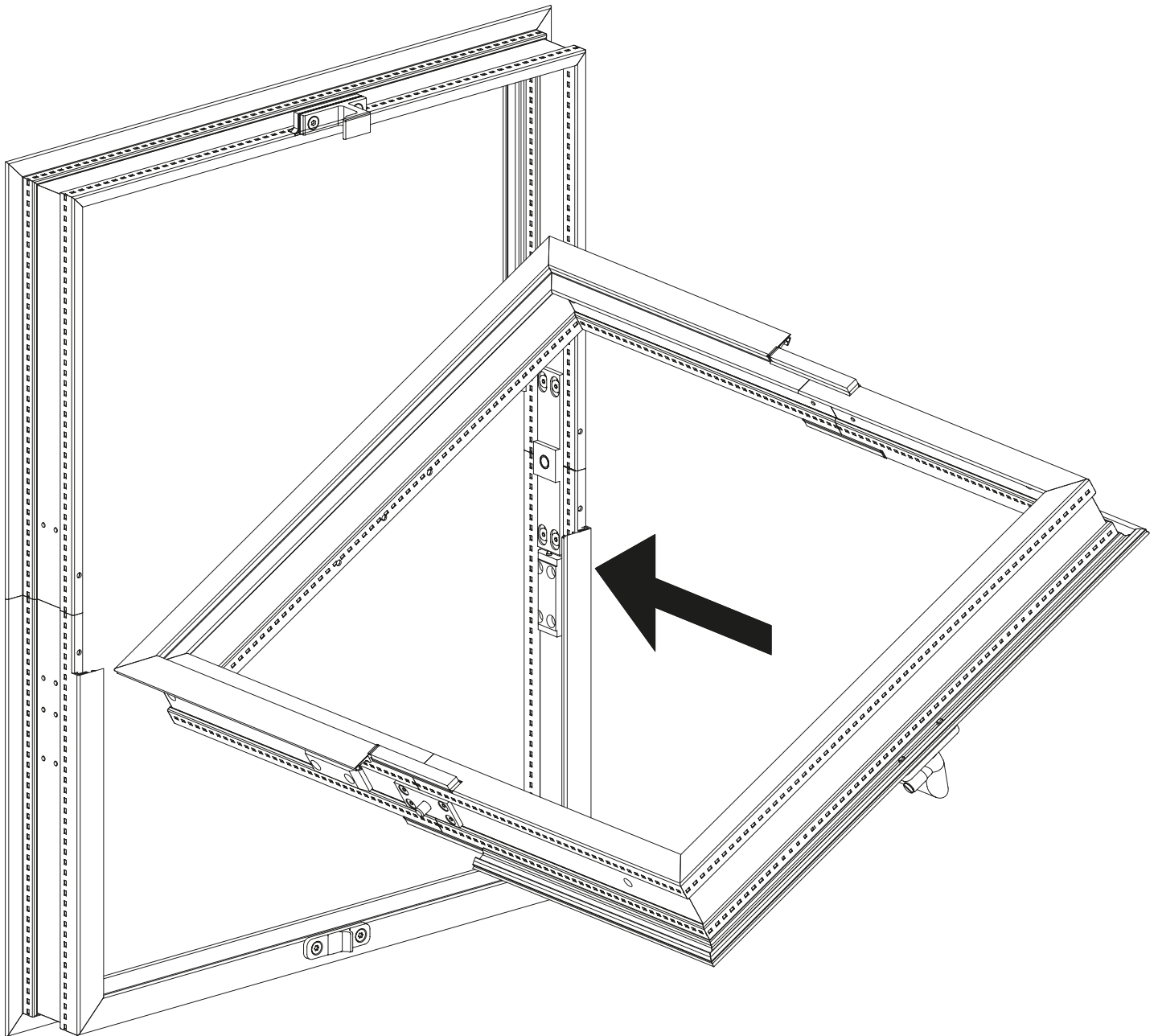
Installation
Horizontal pivot 557.270
incl. lateral guide
Sash



Montage Schwingfenster

Montage fenêtre basculante

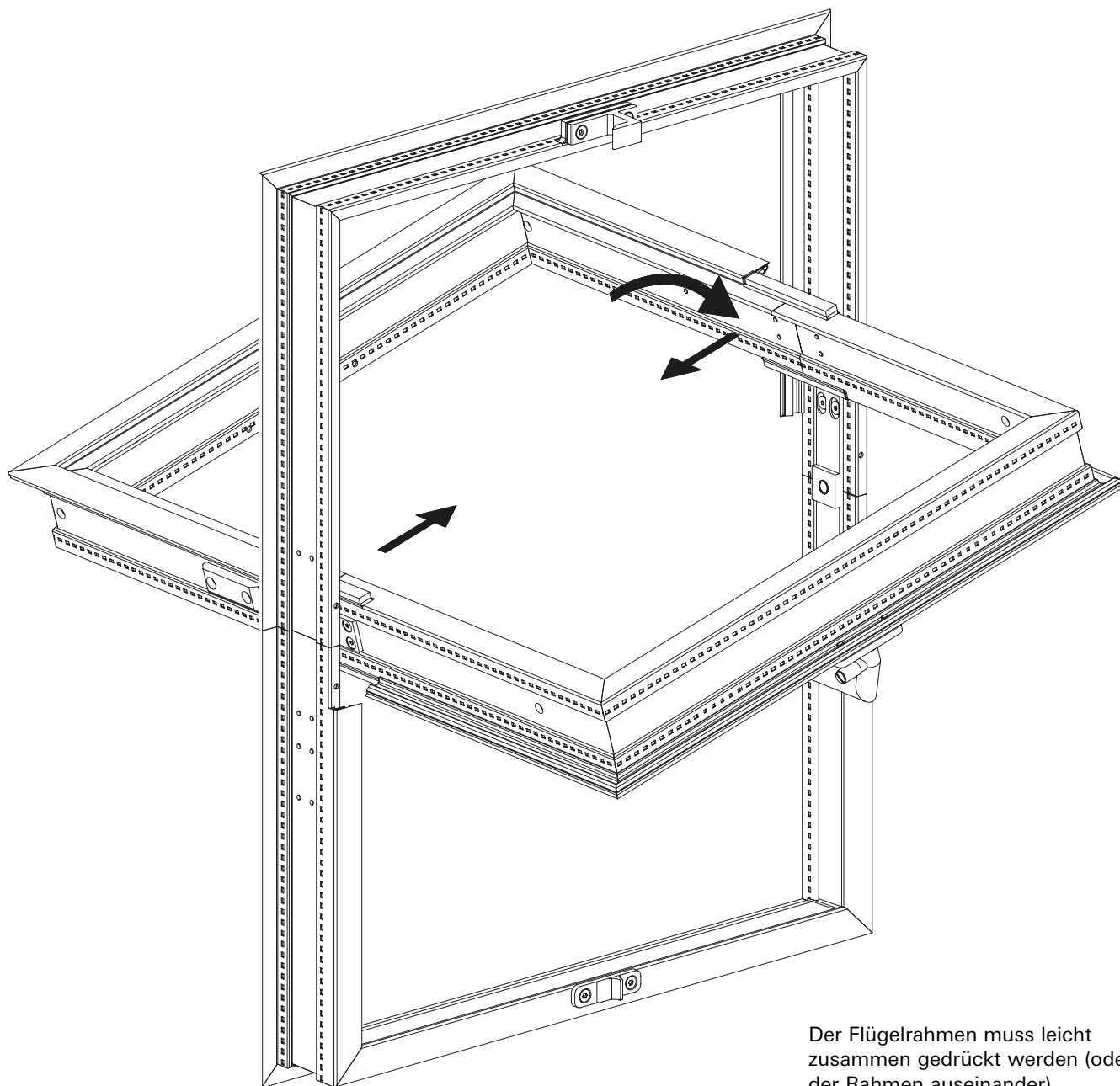
Installation of horizontal pivot
window



Montage Schwingfenster

Montage fenêtre basculante

Installation of horizontal pivot
window



Der Flügelrahmen muss leicht
zusammen gedrückt werden (oder
der Rahmen auseinander).

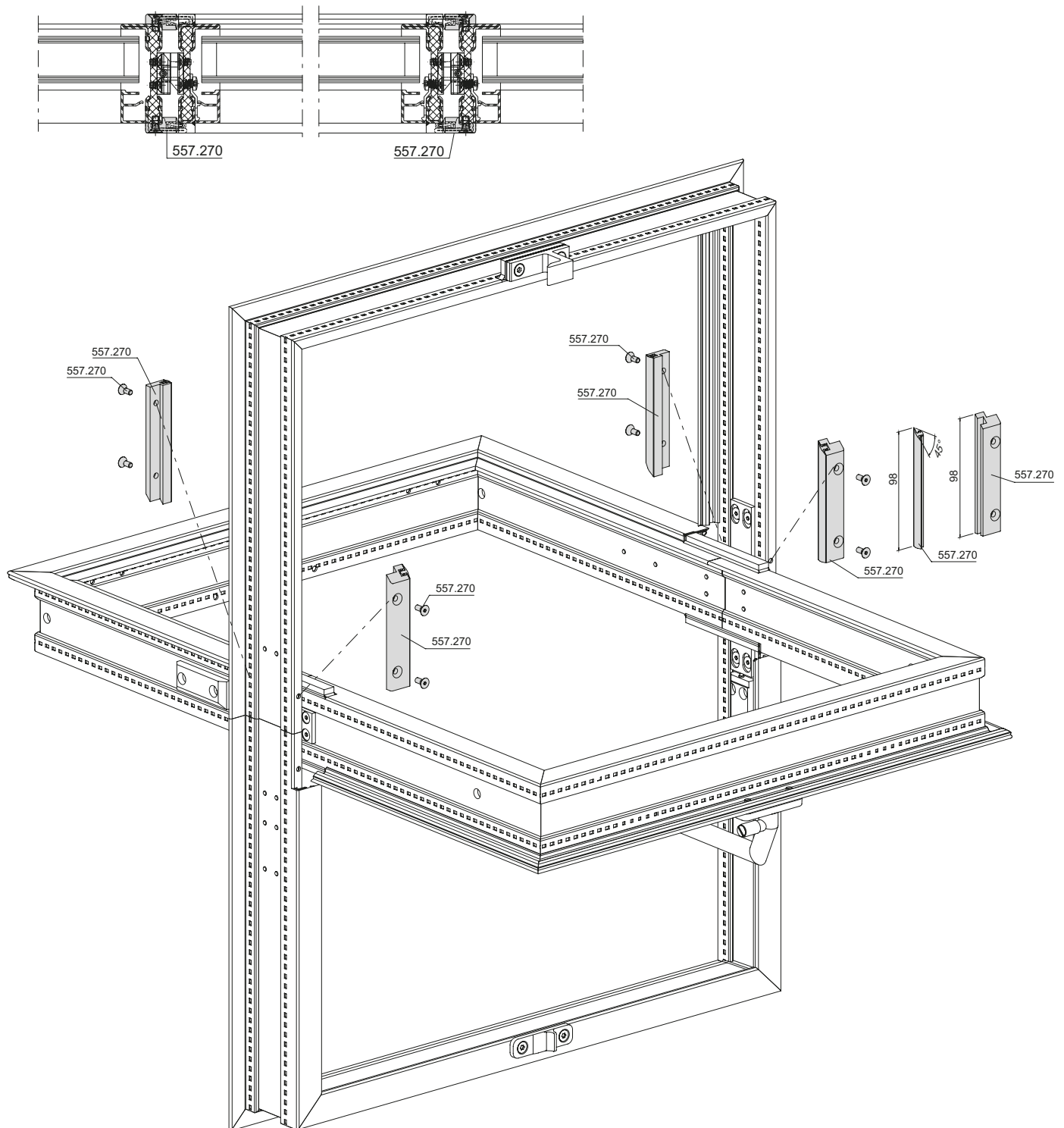
Le cadre de vantail doit être
légèrement comprimé (ou le cadre
être écarté).

The sash frame must be gently pressed
together (or the outer frame pulled
apart).

Montage Anschlusssteile 557.270

Montage pièces d'embout 557.270

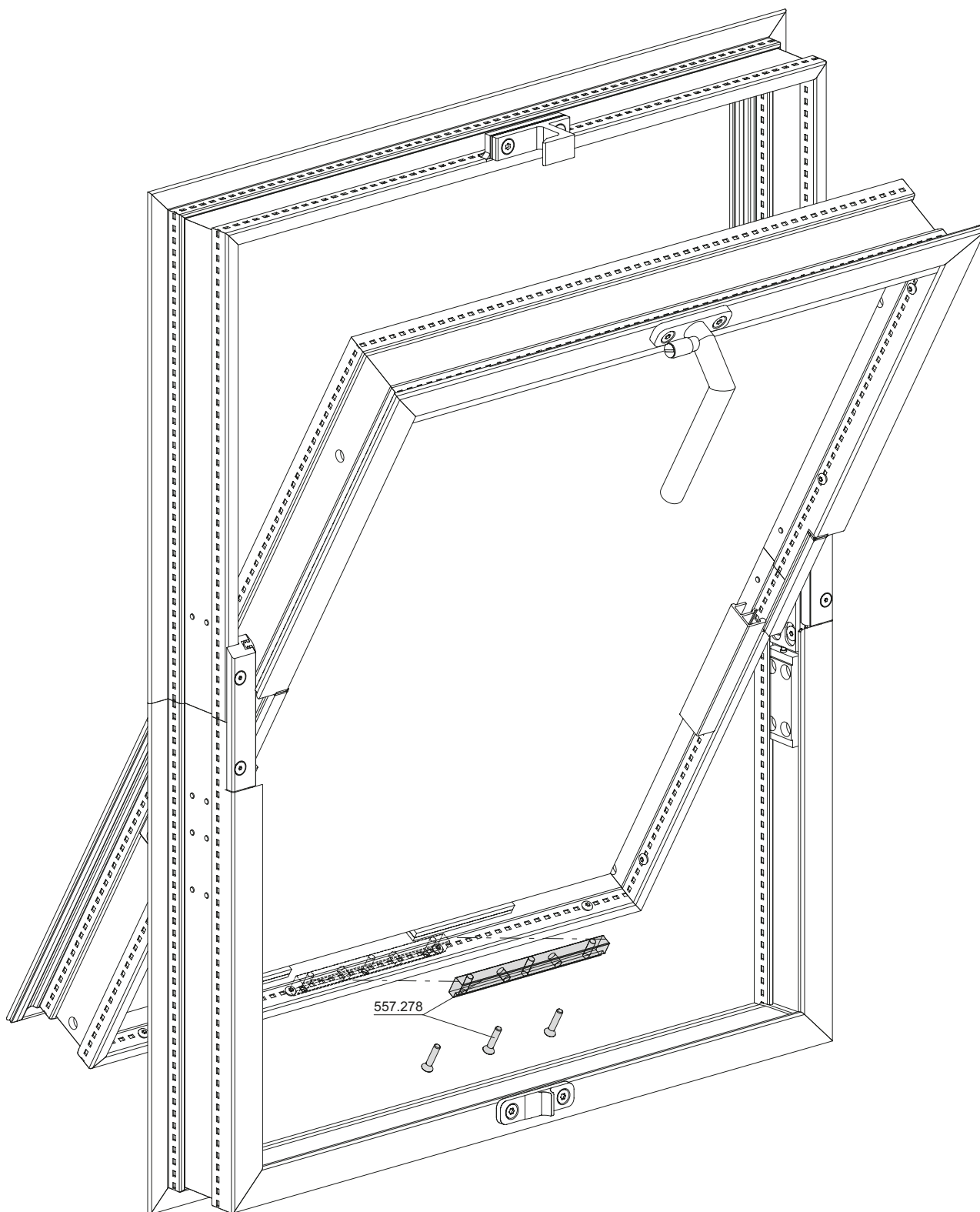
Installation of connections 557.270



Montage Glasleisten-Einlage
557.278

Montage cale de compensation
557.278

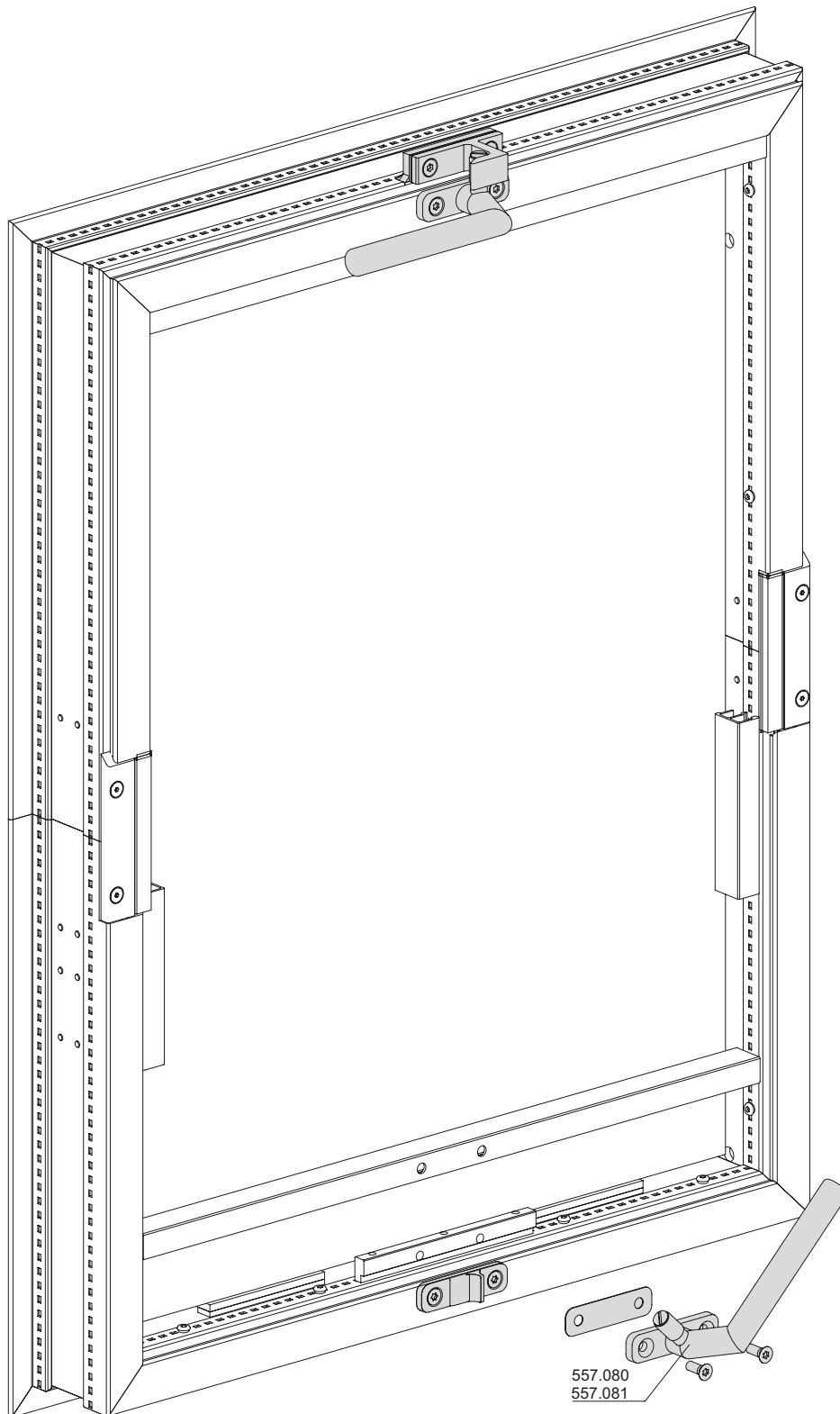
Installation of glazing bead insert
557.278



Montage Fenstergriff
557.080 / 557.081

Montage poignée
557.080 / 557.081

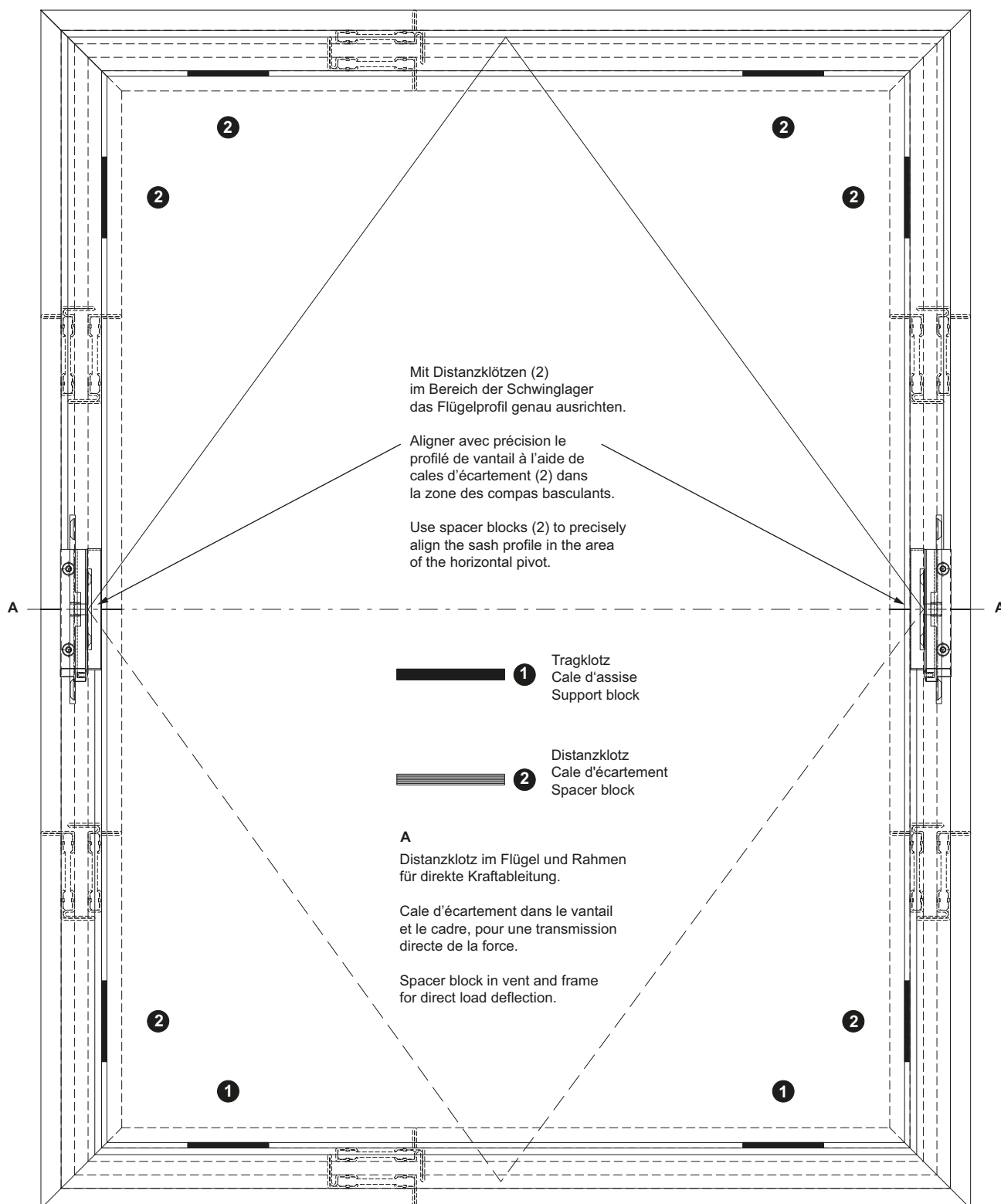
Installation of handle
557.080 / 557.081



Verklotzung Schwingfenster
gemäss Empfehlung DIN EN 12488

Calage de fenêtre basculante selon
recommandation DIN EN 12488

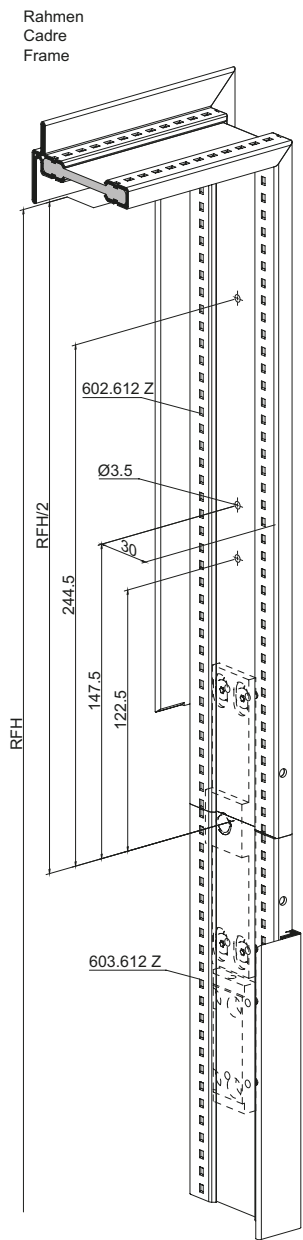
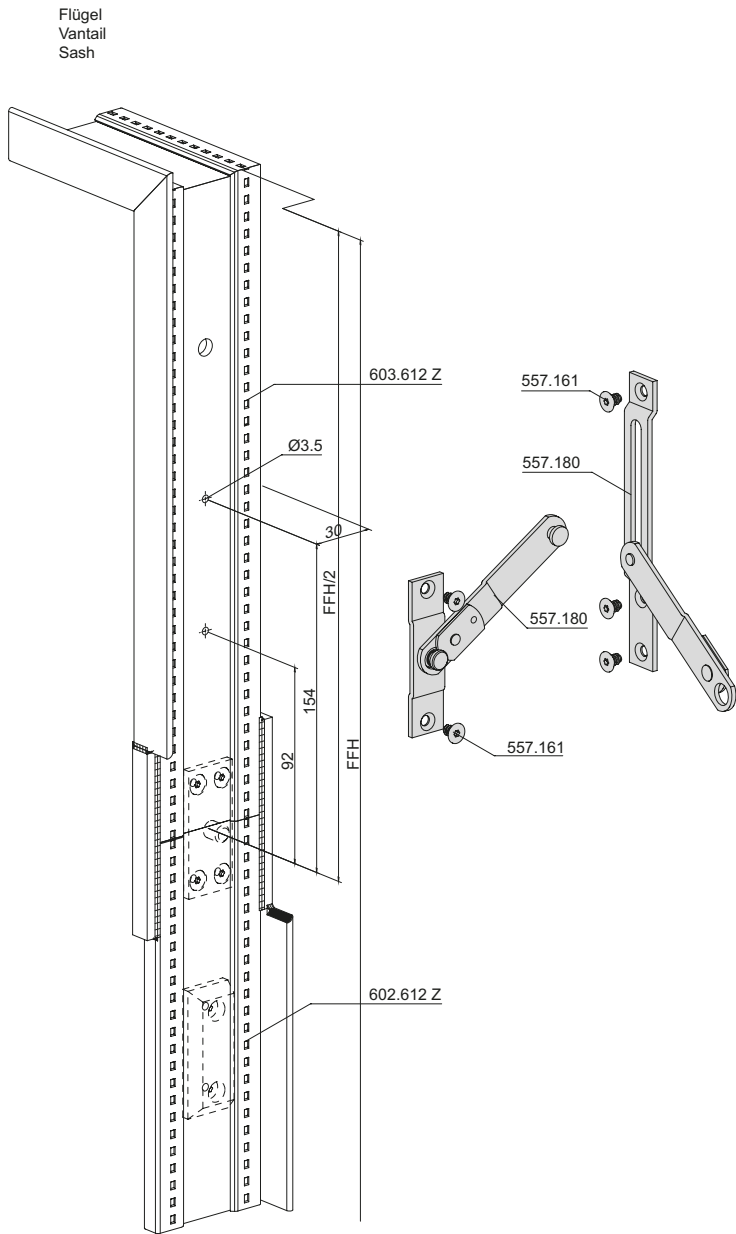
Glazing blocks of horizontal pivot
window according to DIN EN 12488
recommendation



Einbau Öffnungsbegrenzer 557.180

Montage du compas de limitation
d'ouverture 557.180

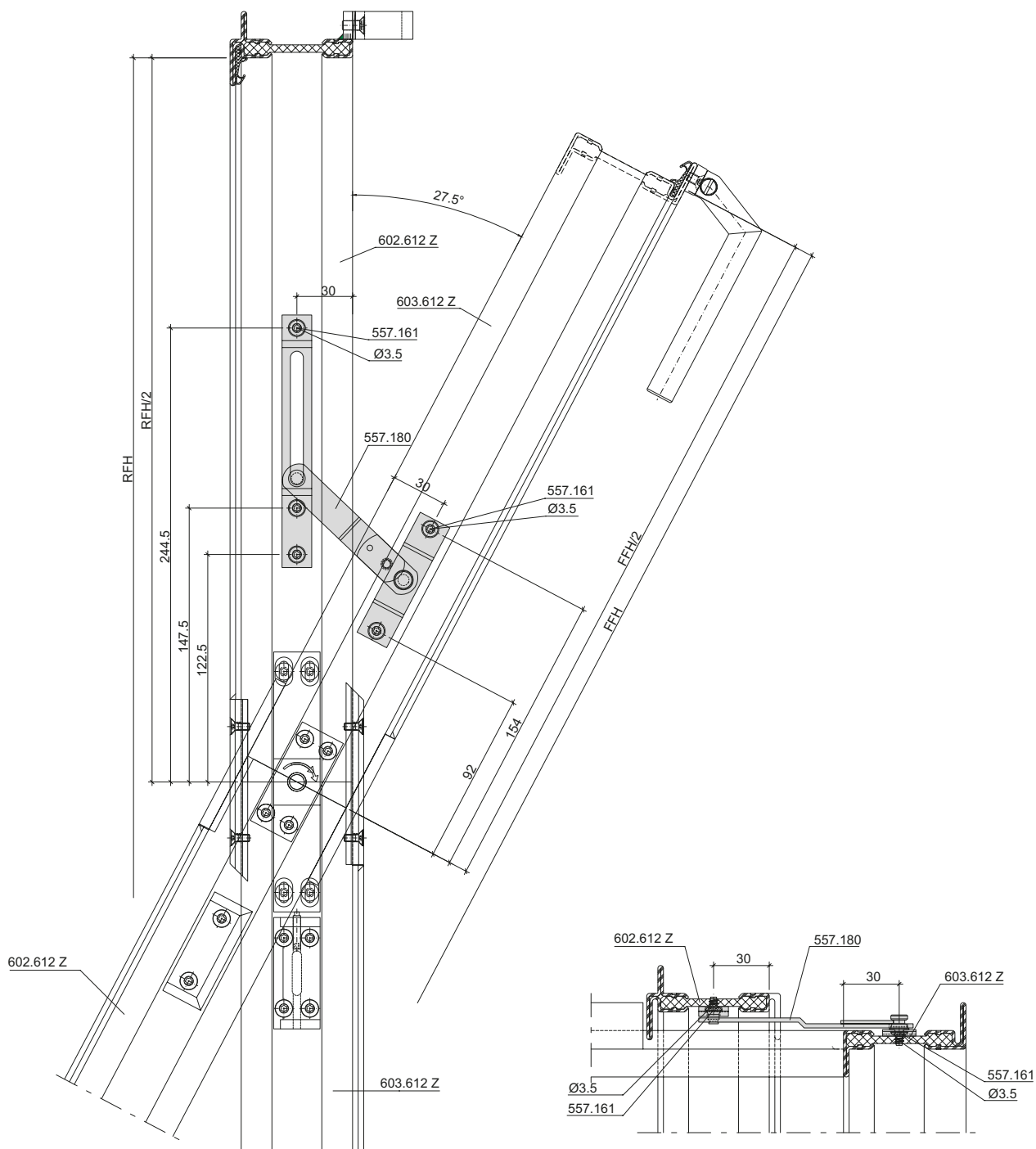
Installation of opening limiter
557.180



Öffnungswinkel 557.180
(Abhängig der Einbaulage)

Angle d'ouverture 557.180
(en fonction de la position de montage)

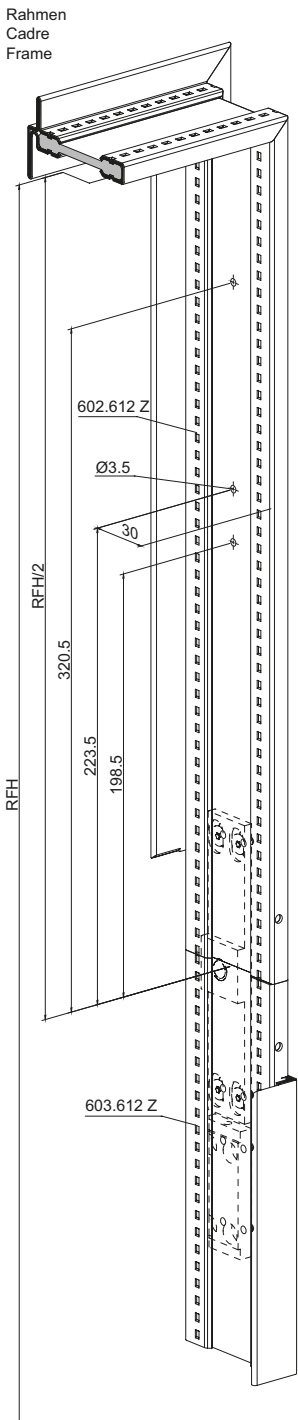
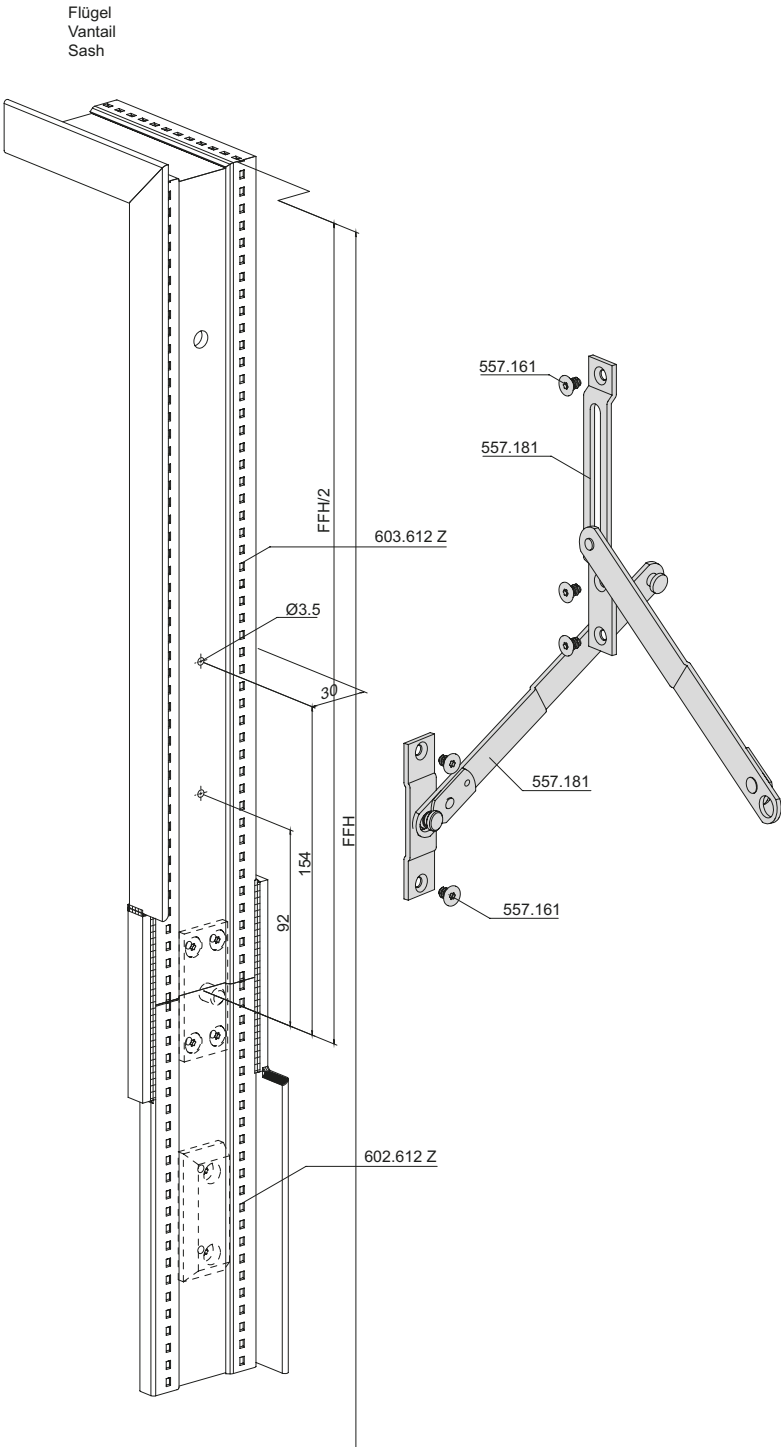
Opening angle 557.180
(depending on installation position)



Einbau Öffnungsbegrenzer 557.181

Montage du compas de limitation
d'ouverture 557.180

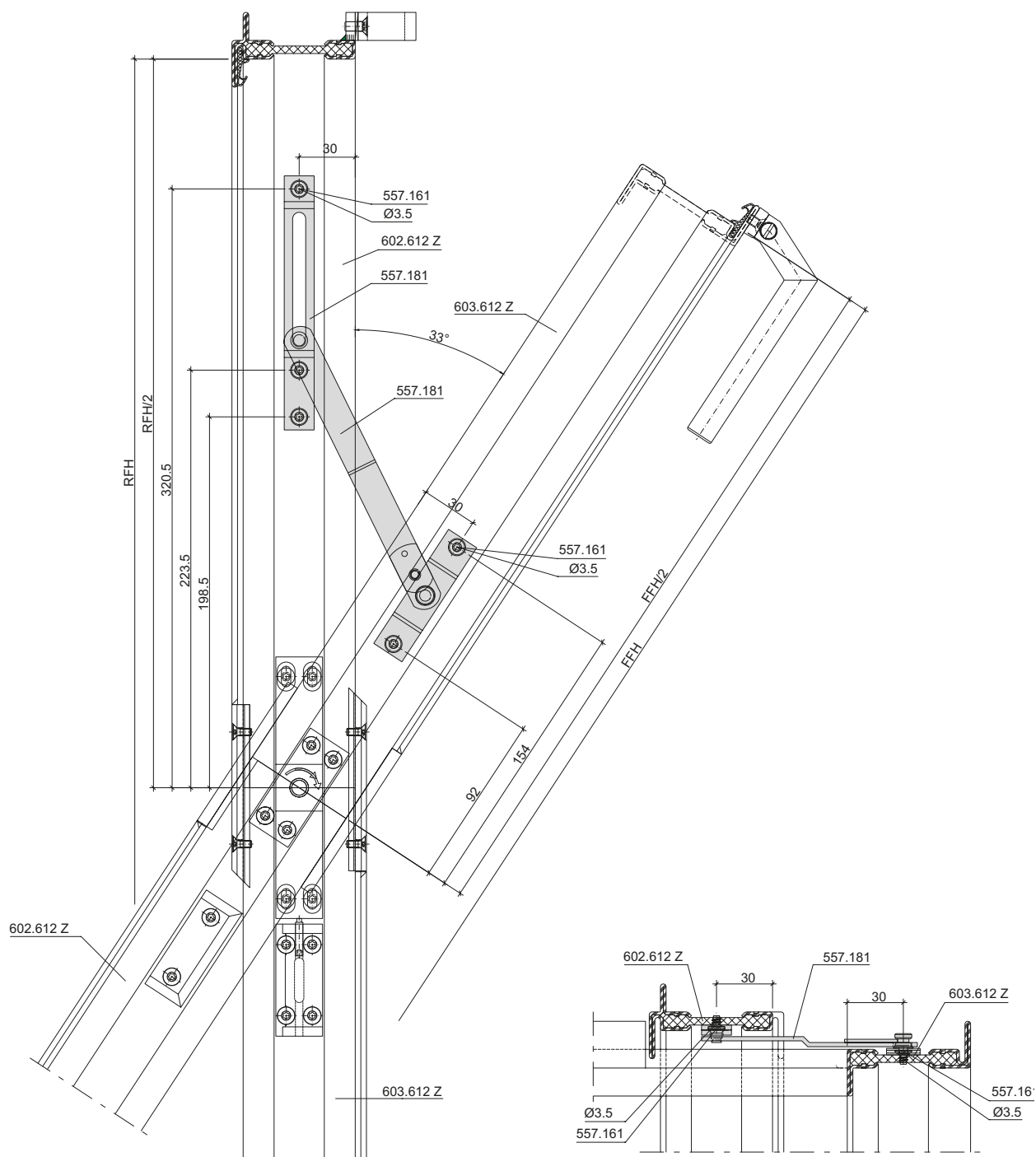
Installation of opening limiter
557.180



Öffnungswinkel 557.181
(Abhängig der Einbaulage)

Angle d'ouverture 557.181
(en fonction de la position de montage)

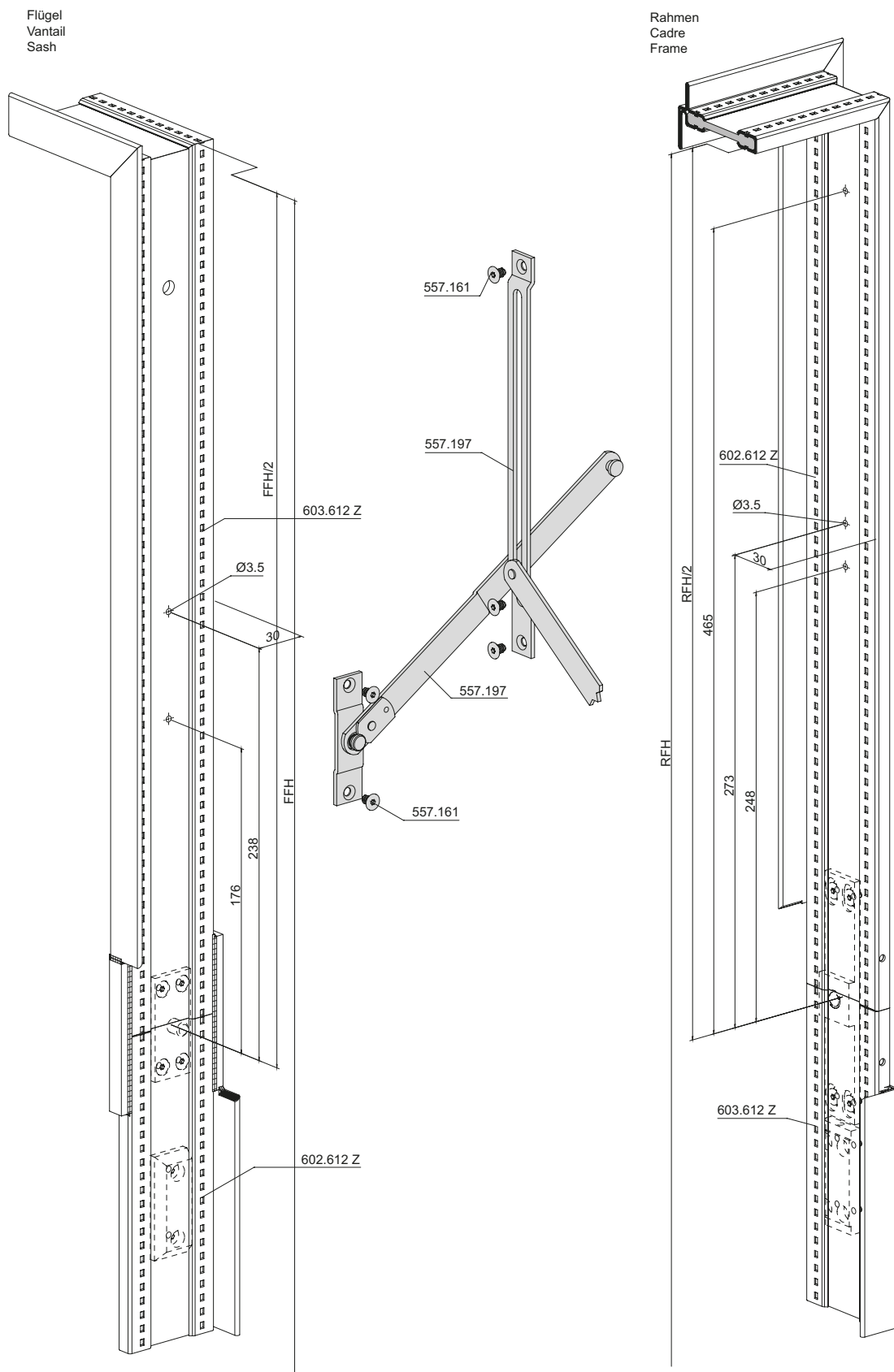
Opening angle 557.181
(depending on installation position)



Einbau Öffnungsbegrenzer 557.197

Montage du compas de limitation
d'ouverture 557.197

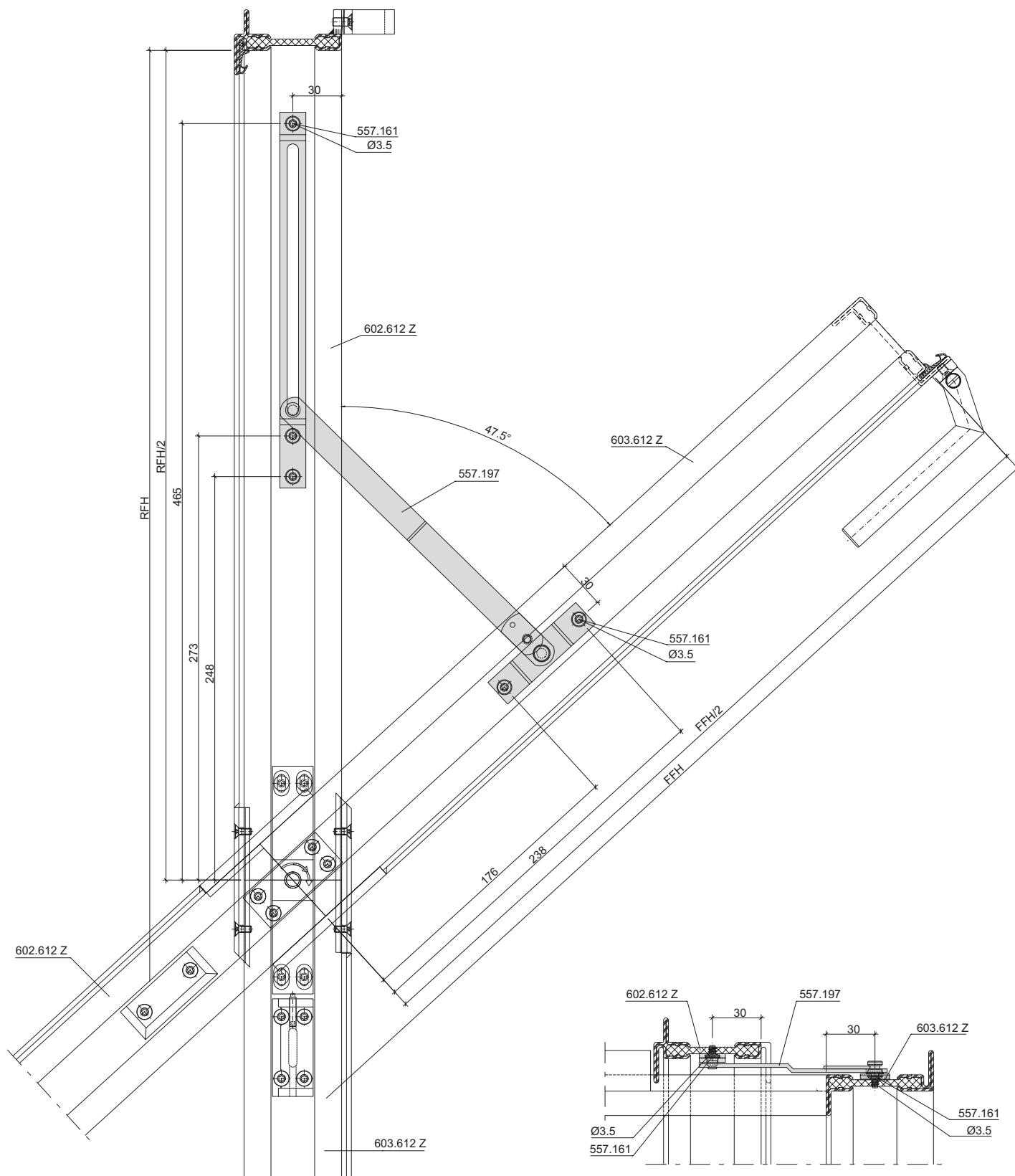
Installation of opening limiter
557.197



Öffnungswinkel 557.197
(Abhängig der Einbaulage)

Angle d'ouverture 557.197
(en fonction de la position de montage)

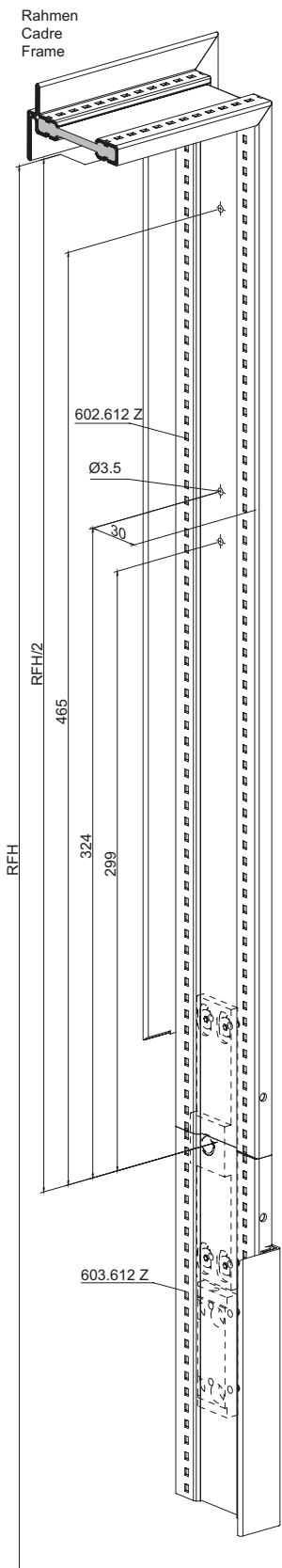
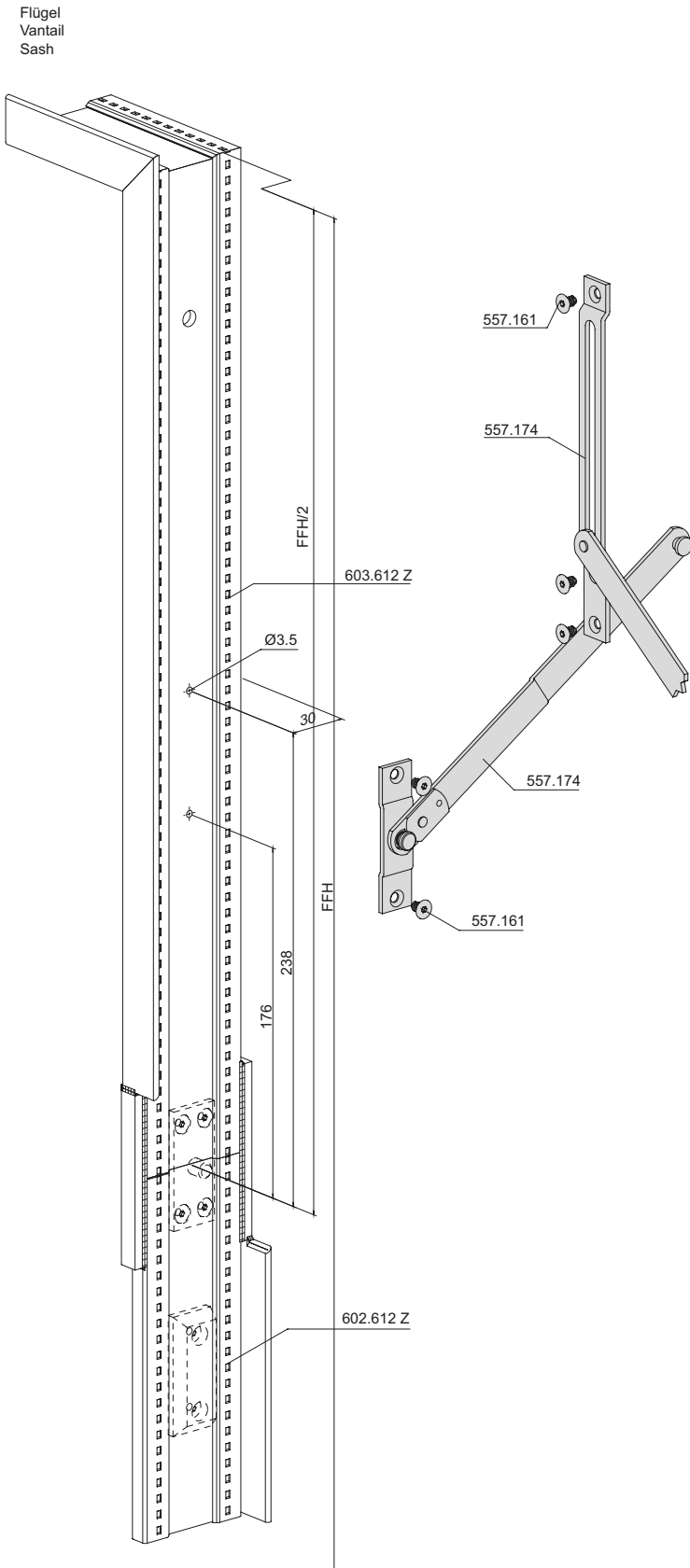
Opening angle 557.197
(depending on installation position)



Einbau Kippschere 557.174

Montage du compas d'imposte
557.174

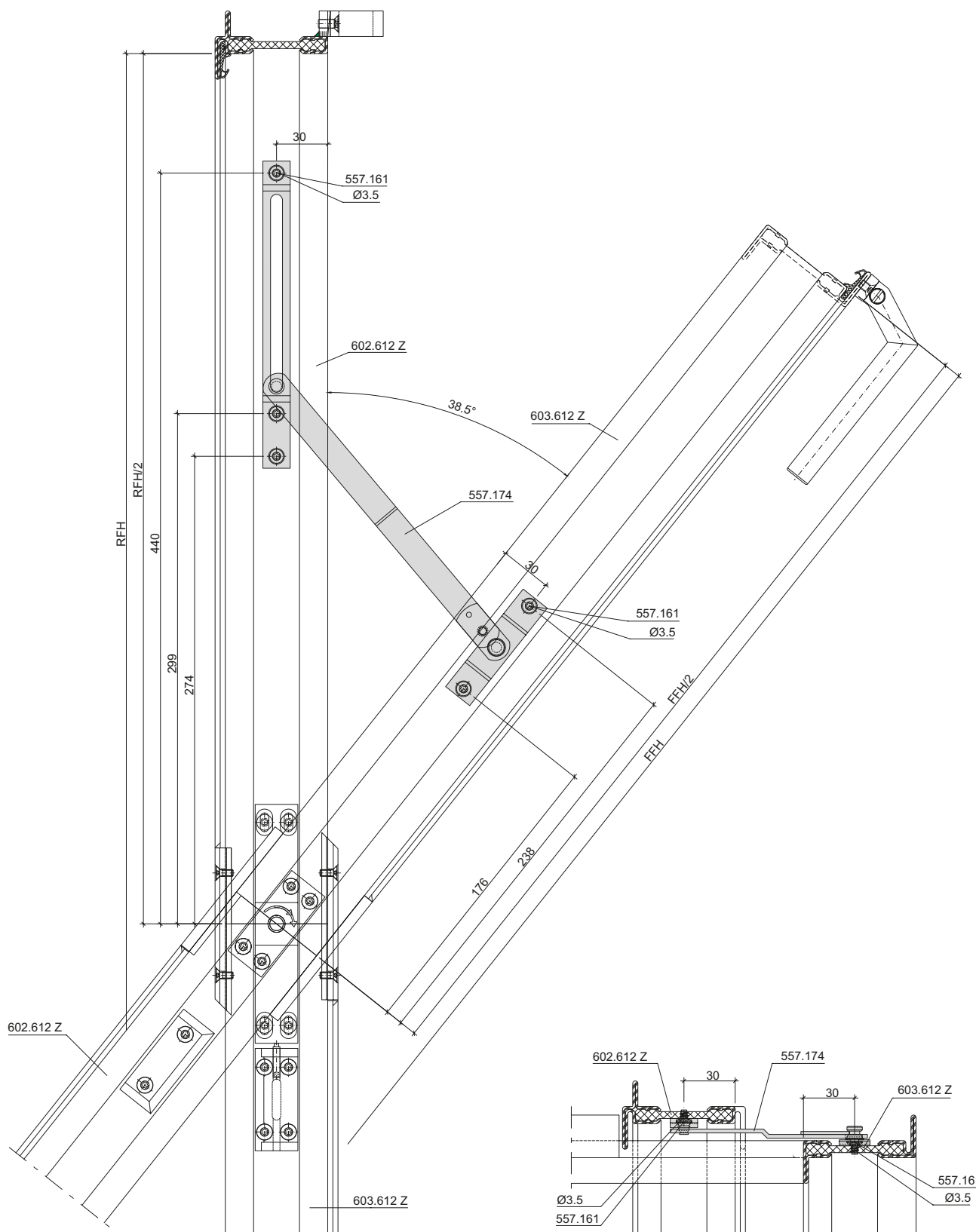
Installation of tilt scissors 557.174



Öffnungswinkel 557.174
(Abhängig der Einbaulage)

Angle d'ouverture 557.174
(en fonction de la position de montage)

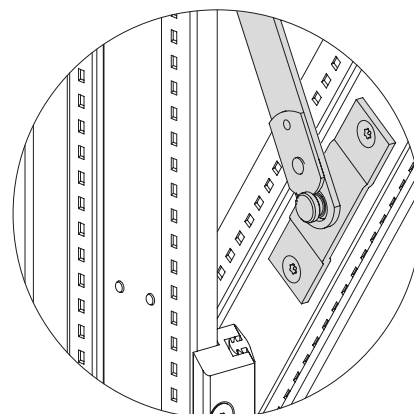
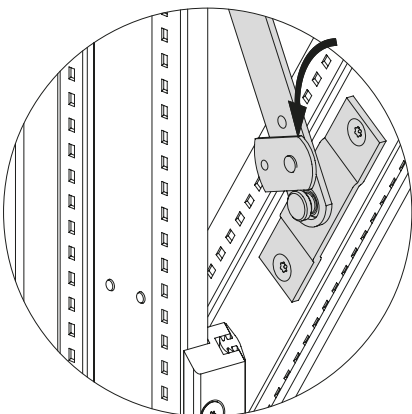
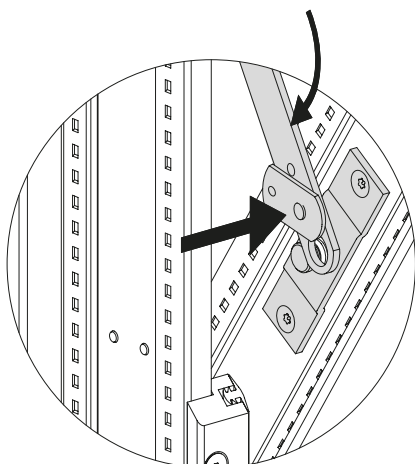
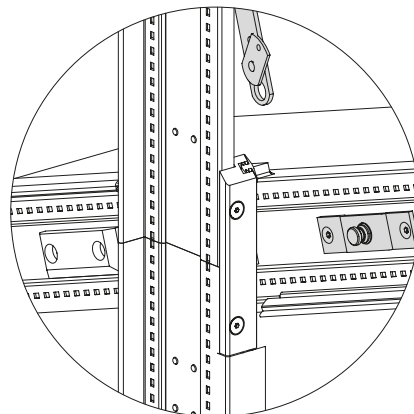
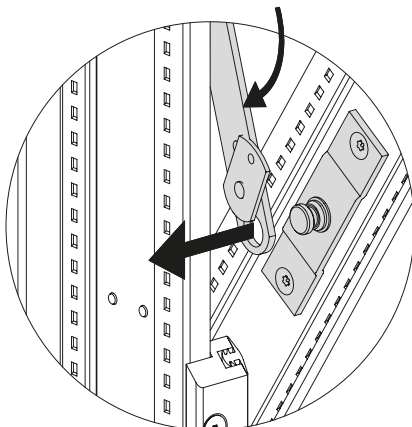
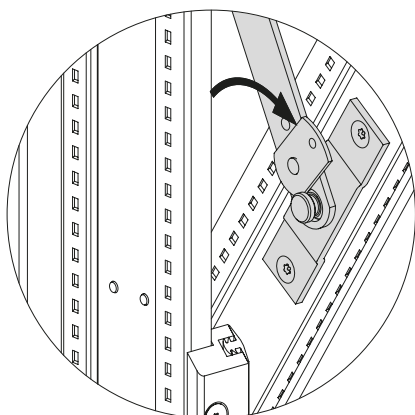
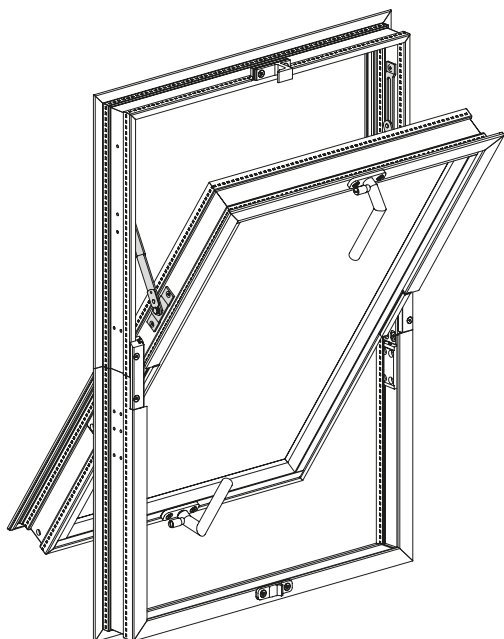
Opening angle 557.174
(depending on installation position)

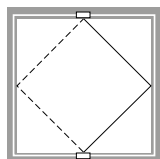


**Aushängen Öffnungsbegrenzer
 und Kippschere**
557.180 / 557.181
557.197 / 557.174

**Décrochage du compas de limitation
 d'ouverture et du compas d'imposte**
557.180 / 557.181
557.197 / 557.174

**Unhinging the opening limiter
 and tilt scissors**
557.180 / 557.181
557.197 / 557.174



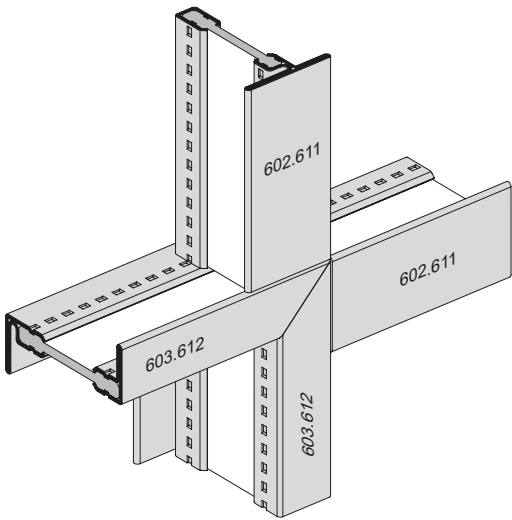
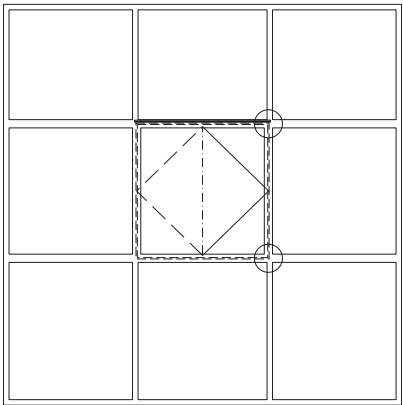
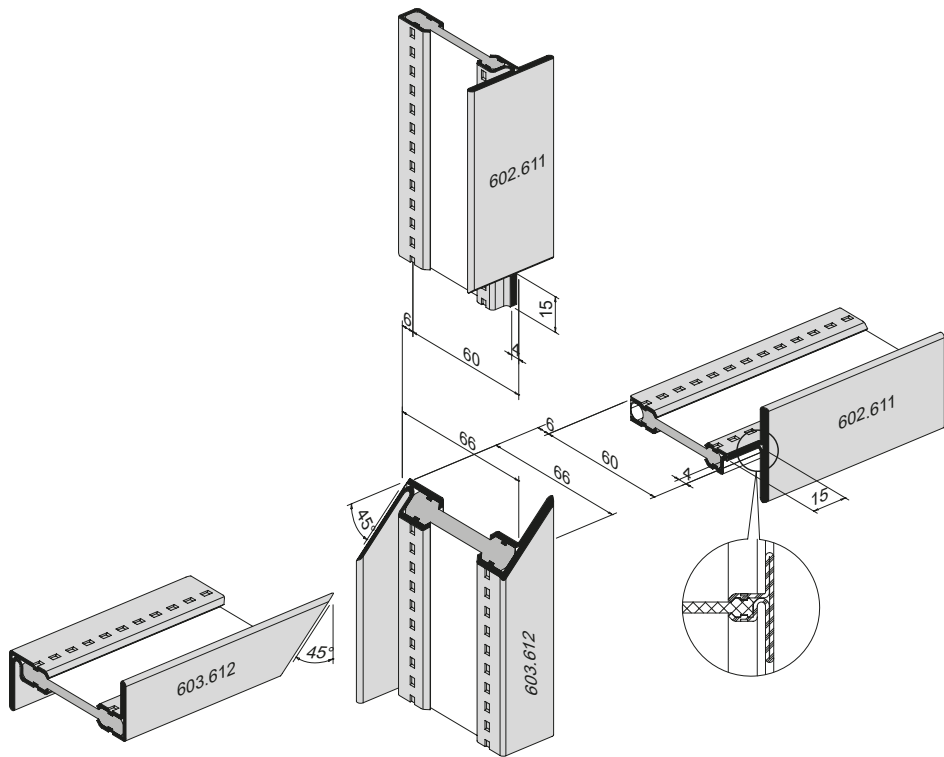


Wendefenster	Fenêtre pivotante	Vertical pivot window	
Ausbildung Kreuzpunkt	Formation croisée	Construction of intersection	358
Zuschnitt, Bearbeitung und Zusammenbau Rahmen	Découpe, usinage et assemblage cadre	Cutting, preparing and assembly frame	360
Zuschnitt, Bearbeitung und Zusammenbau Flügel	Découpe, usinage et assemblage vantail	Cutting, preparing and assembly sash	368
Bohrlehre 499.436 für Getriebe 557.187 und Fenstergriff 557.185	Gabarit de perçage 499.436 pour crémonne 557.187 et poignée de fenêtre 557.185	Drilling jig 499.436 for mechanism 557.187 and window handle 557.185	376
Bohrlehre 499.436 für Getriebeverlängerung 557.188	Gabarit de perçage 499.436 pour prolongement de la crémonne 557.188	Drilling jig 499.436 for gearbox extension 557.188	378
Bohrlehre 499.436 für Schliessbleche 557.189	Gabarit de perçage 499.436 pour gâches 557.189	Drilling jig 499.436 for striking plates 557.189	380
Einbau Beschlag	Montage de la ferrure	Installation of fittings	388
Glasfalzbelüftung	Aération de feuillure	Glazing rebate ventilation	389
Einbau Wendelager	Montage du pivot	Installation of pivot bearing	391
Bearbeitung Dichtung und Entwässerung	Usinage joint et drainage	Preparation of weatherstrip and drainage	393
Einbau Entwässerungsprofil 452.984	Montage profilé de drainage 452.984	Installation drainage profile 452.984	394
Einbau Anschlagdichtung 455.046	Montage Joint de butée 455.046	Installation rebate weatherstrip 455.046	398
Einbau Abgrenzung 557.196	Montage délimitation 557.196	Installation of separator 557.196	400
Einbau Wendelager 557.196	Montage pivot 557.196	Installation of pivot bearing 557.196	402
Montage Auflaufbock 557.079	Montage bloc d'arrêt 557.079	Installation engagement block 557.079	404
Bearbeitung Dichtung	Usinage joint	Preparing the weatherstrip	405
Montage Wendefenster	Montage fenêtre pivotante	Installation of vertical pivot window	406
Einbau Ausgleichsteile	Montage pièces de compensation	Installation of balancing components	408
Einbau Wetterschenkel 407.008/407.009	Montage renvoi d'eau 407.008/407.009	Installation weatherbar 407.008/407.009	409
Verklotzen der Fenster gemäss Empfehlung DIN EN 12488	Calage des fenêtres selon recommandation DIN EN 12488	Glazing blocks of the windows according to DIN EN 12488 recommendation	410

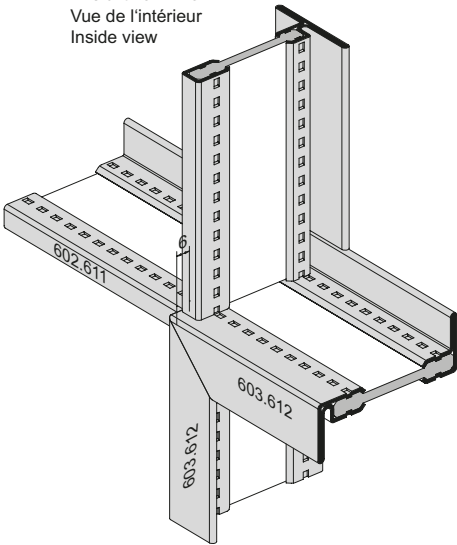
Ausbildung Kreuzpunkt
linksöffnend

Formation croisée
ouvrant à gauche

Construction of intersection
lefthand



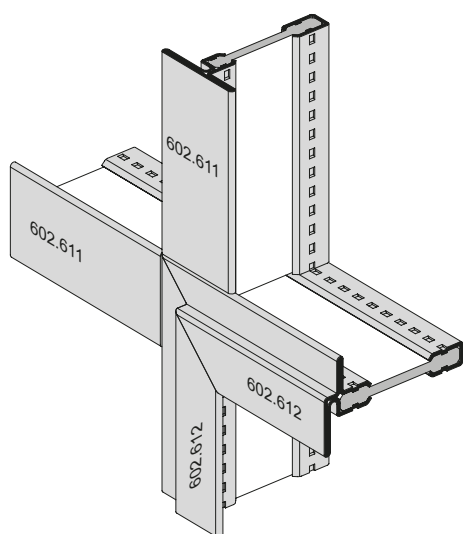
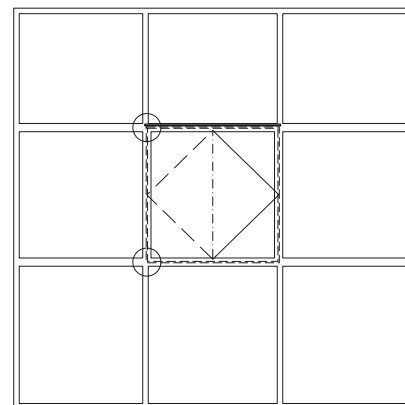
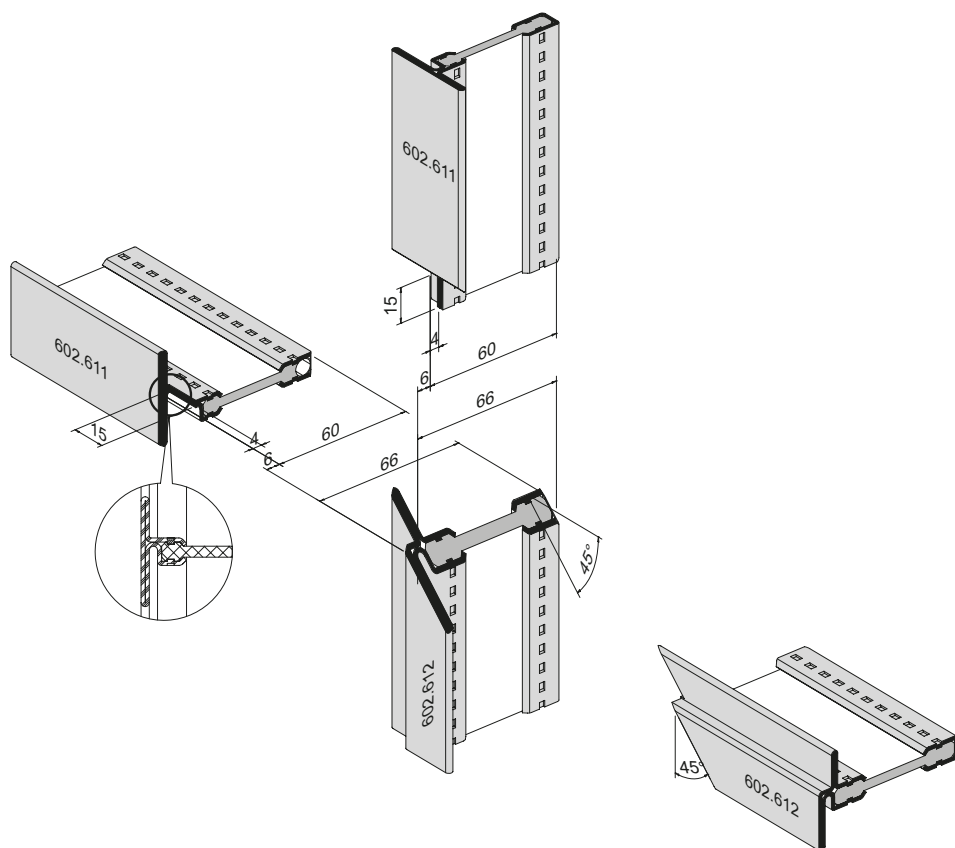
Ansicht von innen
Vue de l'intérieur
Inside view



**Ausbildung Kreuzpunkt
 linksöffnend**

**Formation croisée
 ouvrant à gauche**

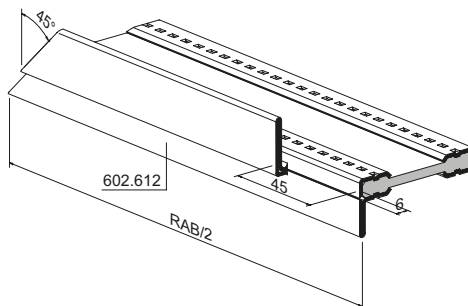
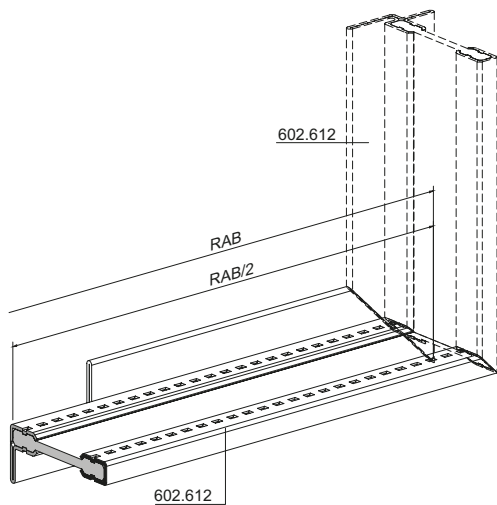
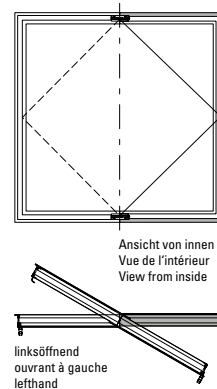
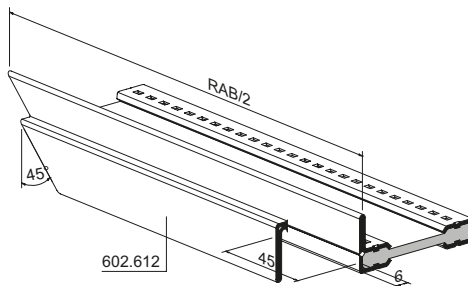
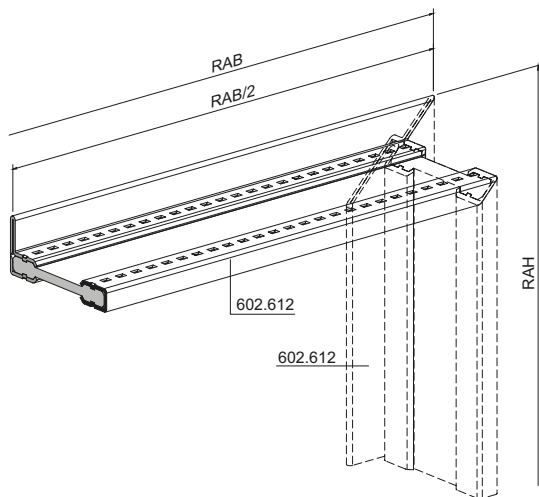
**Construction of intersection
 lefthand**



Zuschnitt Rahmen

Découpe cadre

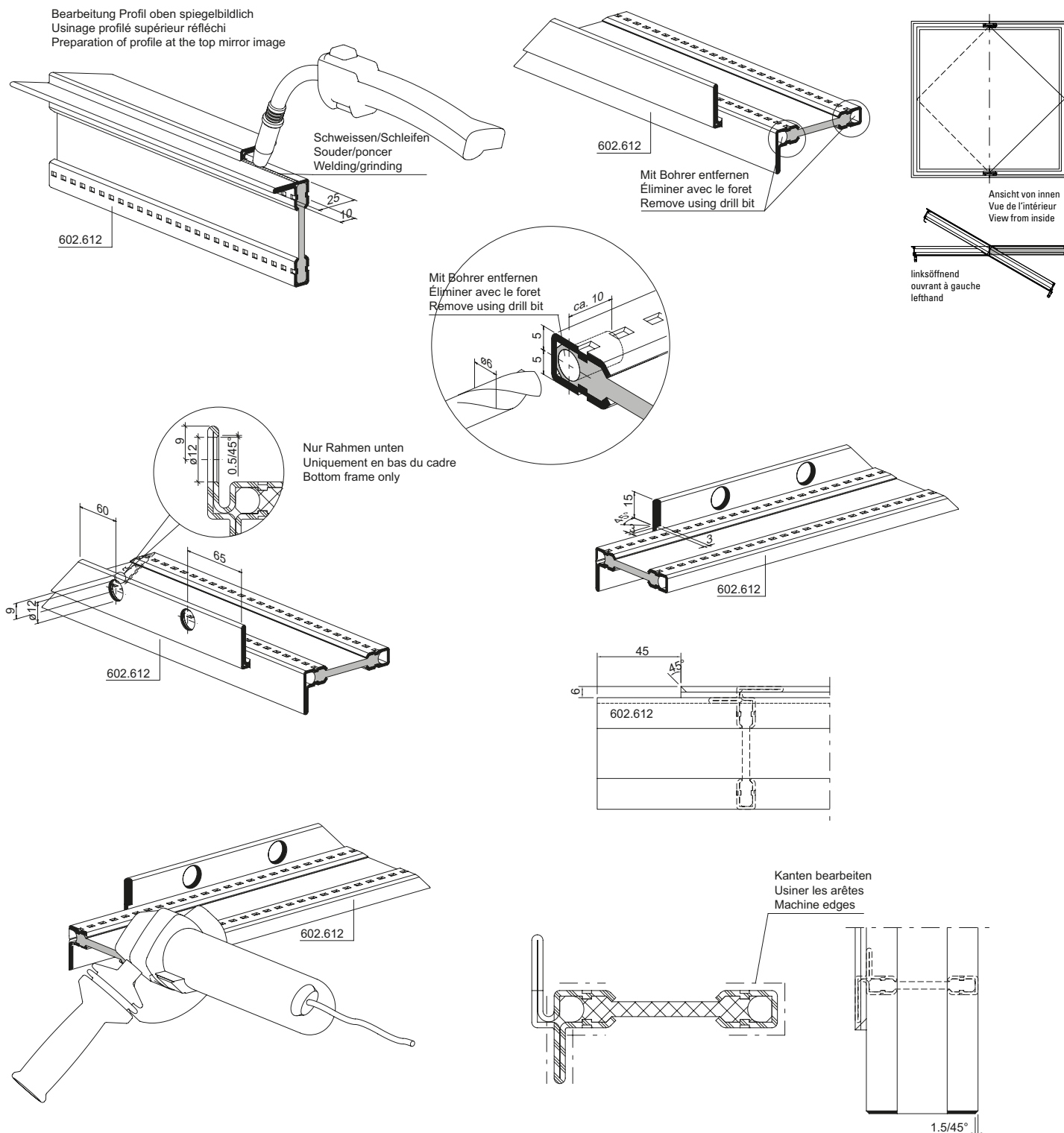
Cutting the frame



Bearbeitung Rahmen

Usinage cadre

Preparing the frame

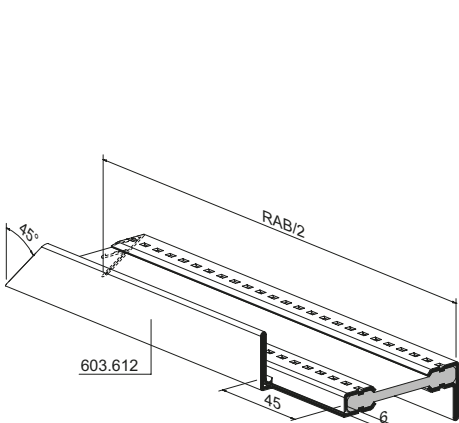
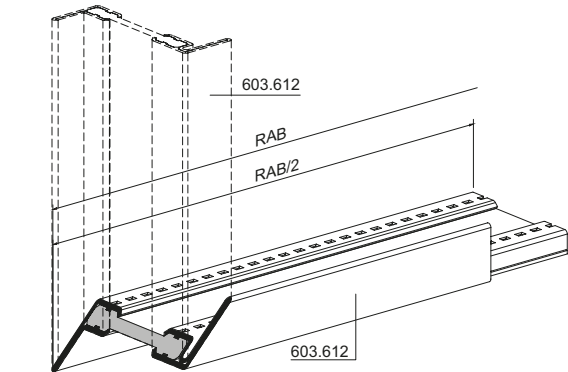
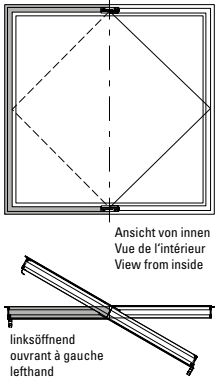
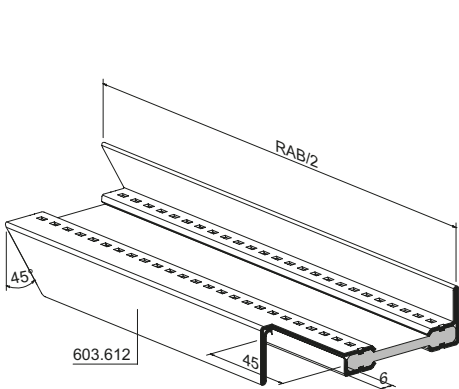
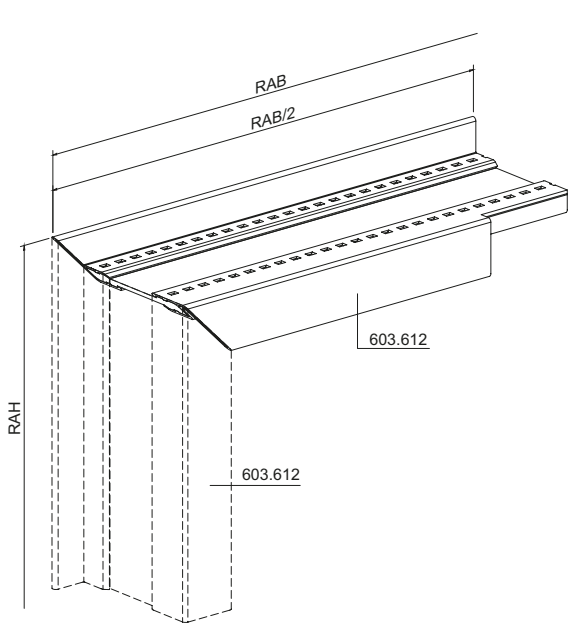


Alternativ kann auch die Entwässerungstülle 450.115 eingesetzt werden
 Il est également possible d'utiliser la douille d'évacuation d'eau 450.115
 Alternatively, drainage pipe 450.115 can also be used

Zuschnitt Rahmen

Découpe cadre

Cutting the frame

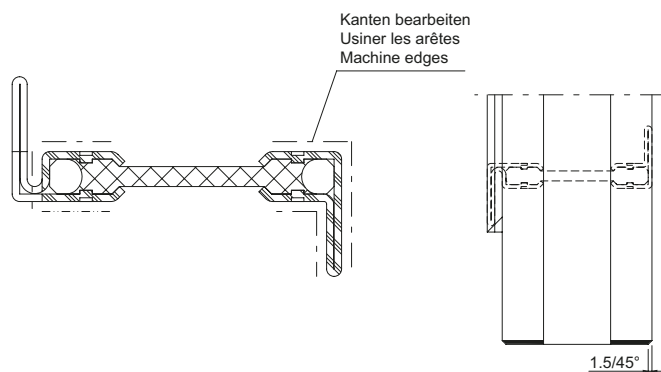
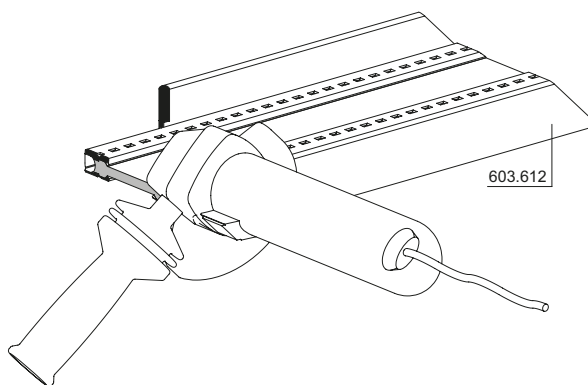
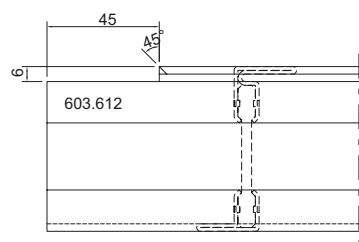
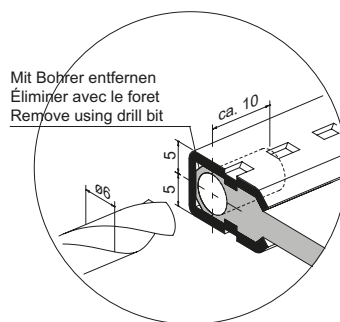
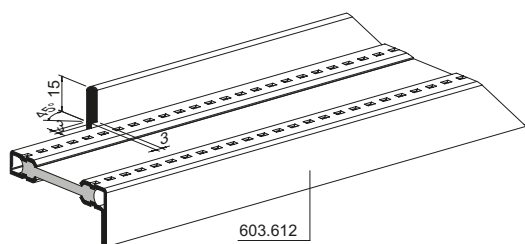
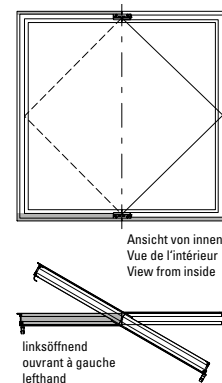
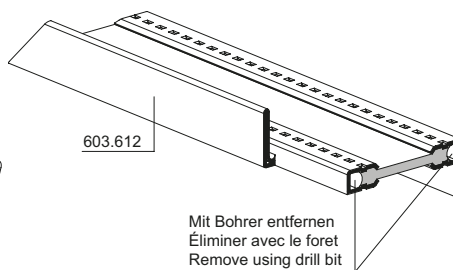
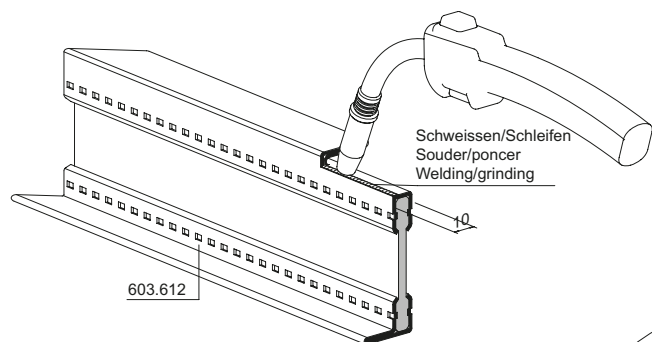


Bearbeitung Rahmen

Usinage cadre

Preparing the frame

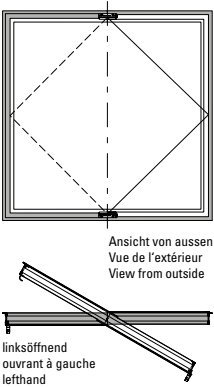
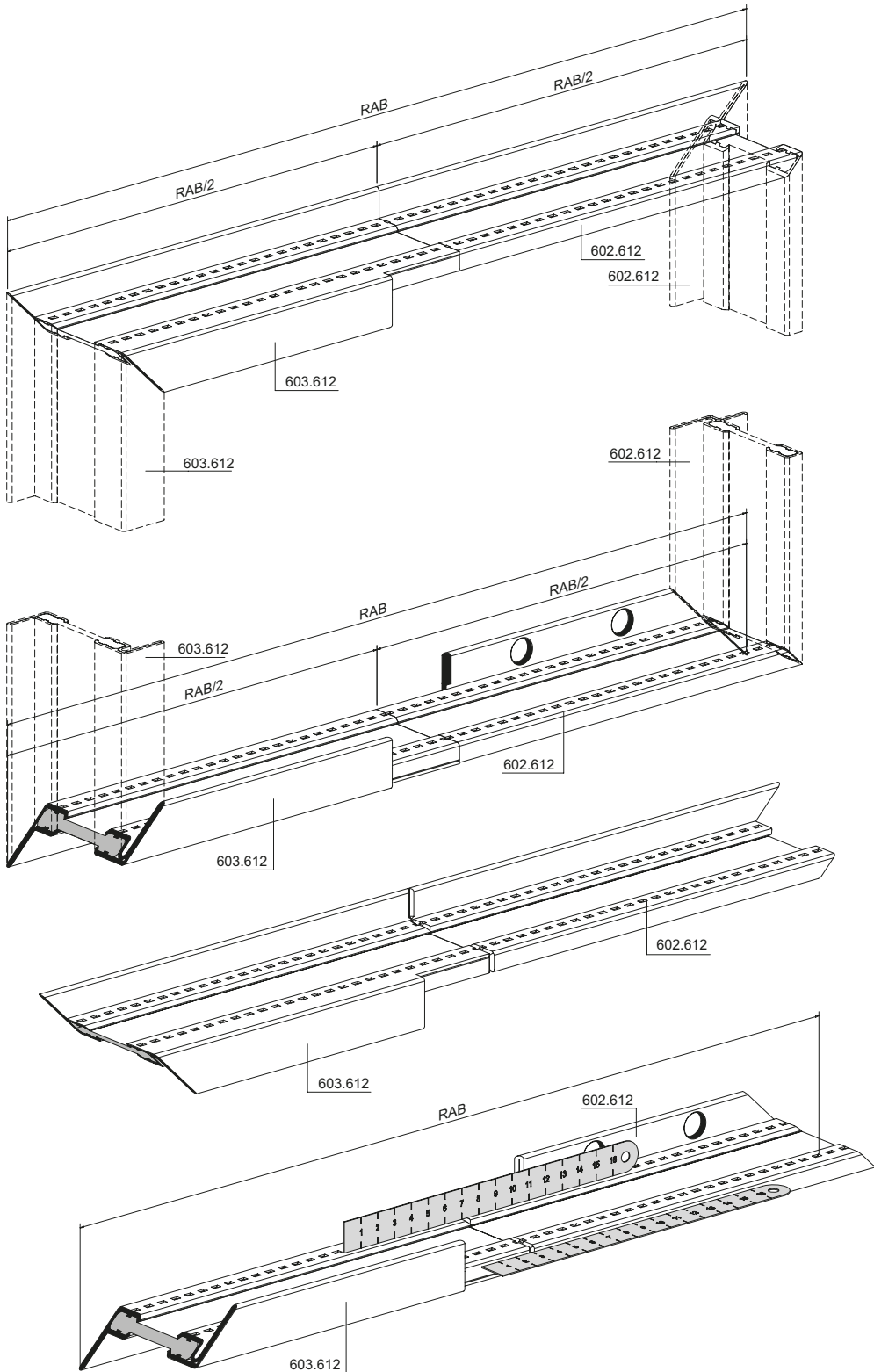
Bearbeitung Profil oben spiegelbildlich
 Usinage profilé supérieur réfléchi
 Preparation of profile at the top mirror image



Zusammenbau Rahmen

Assemblage de cadre

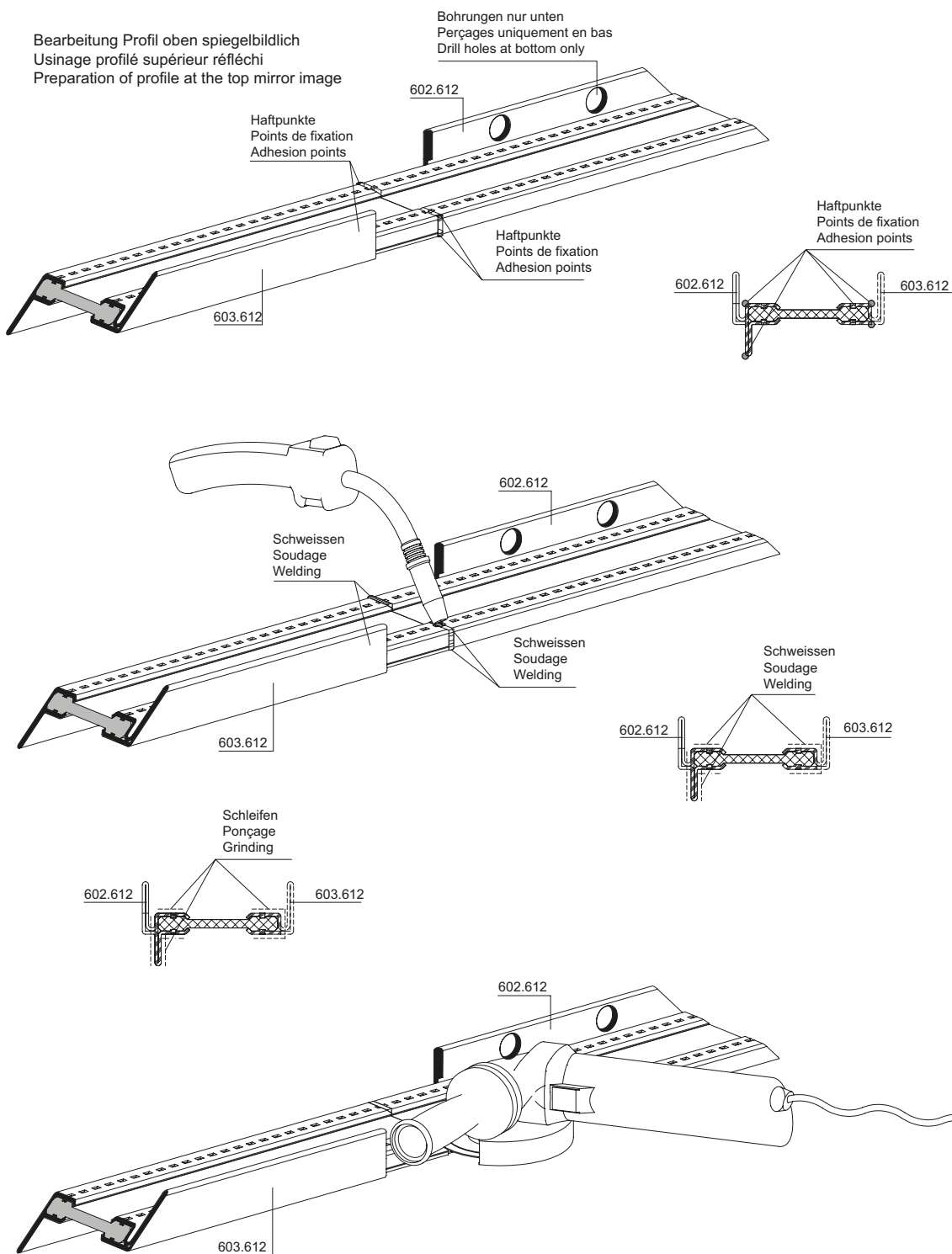
Assembly of frame



Zusammenbau Rahmen

Assemblage de cadre

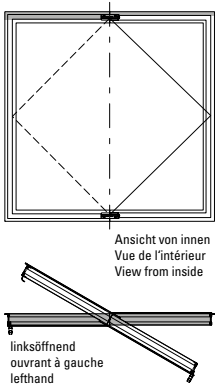
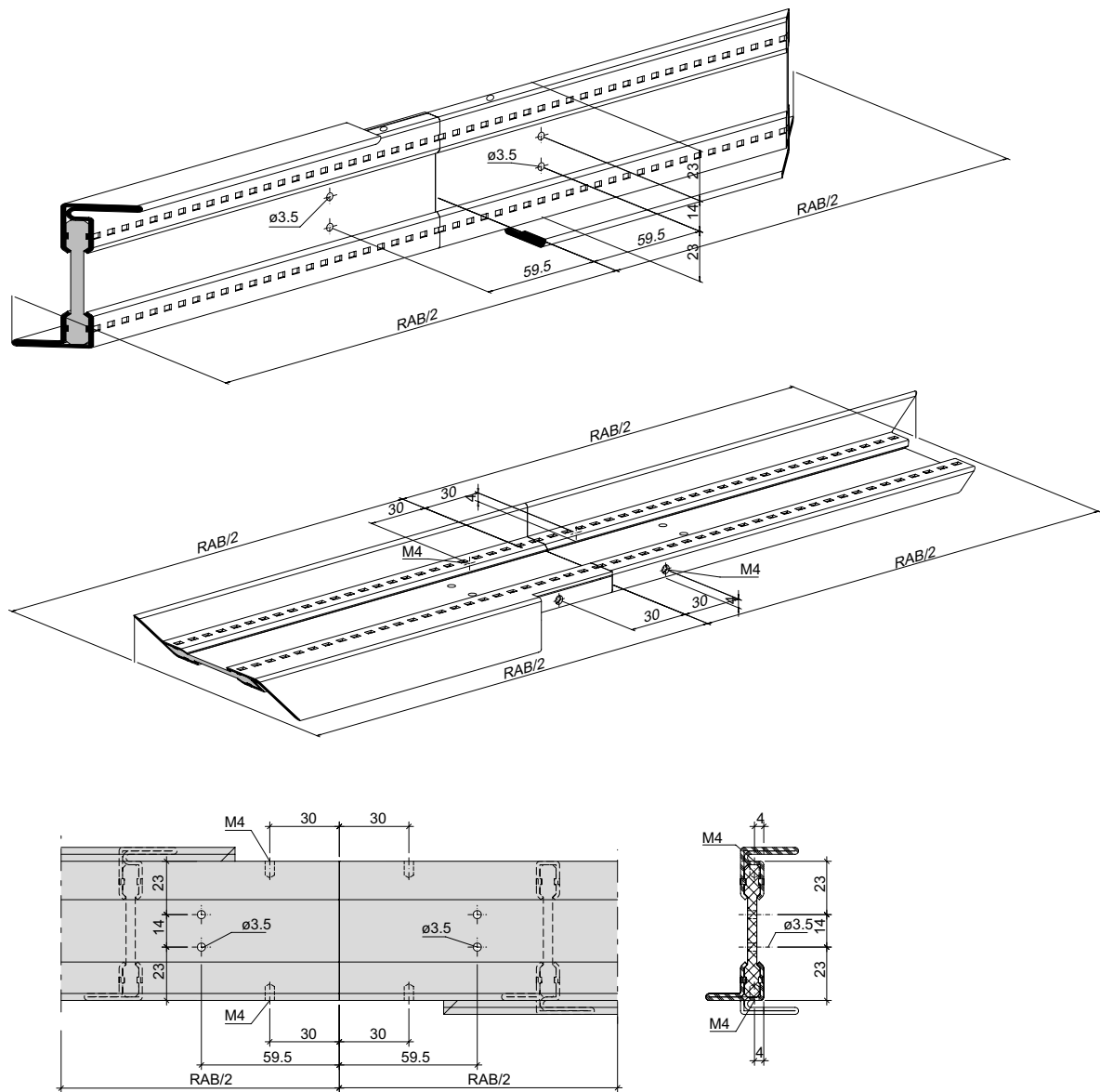
Assembly of frame



Bearbeitung Rahmen oben

Usinage cadre en haut

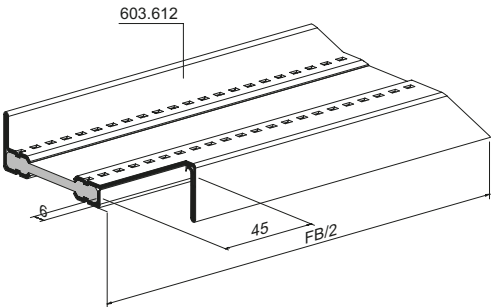
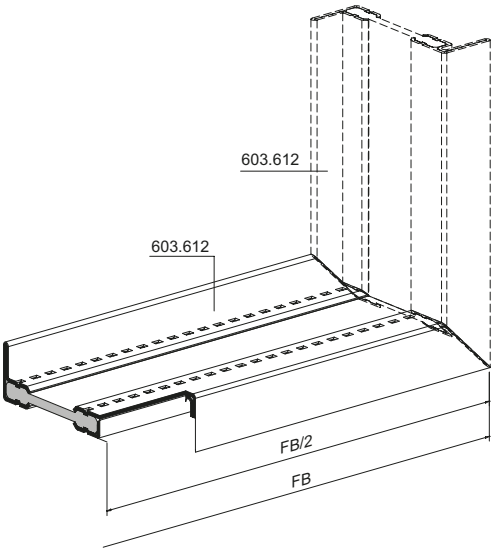
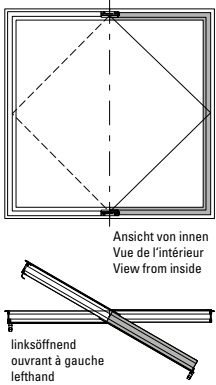
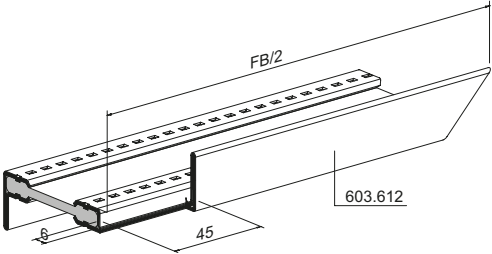
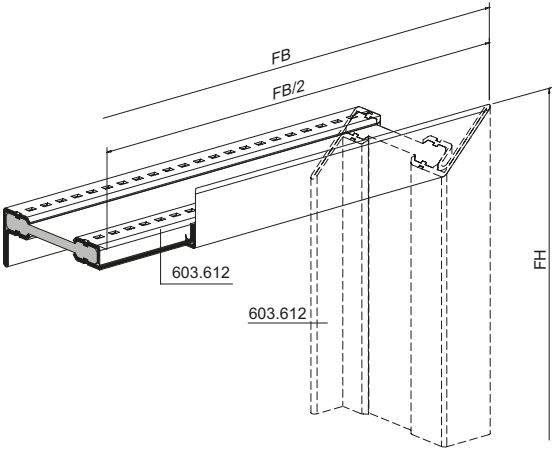
Preparation frame, top



Zuschnitt Flügel

Découpe vantail

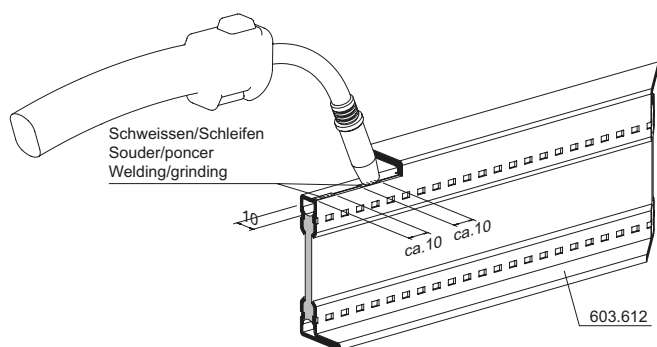
Cutting the sash



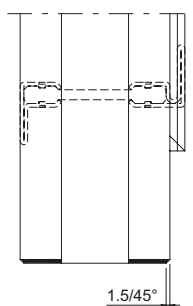
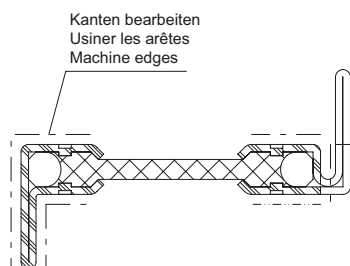
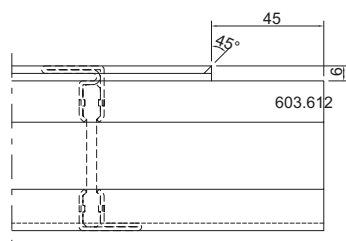
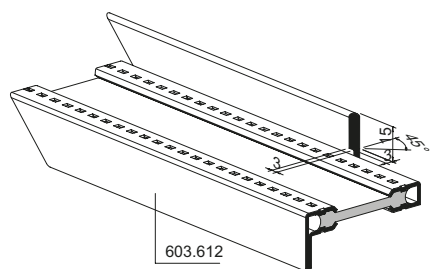
Bearbeitung Flügel

Usinage vantail

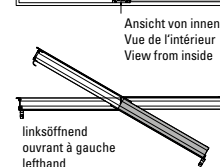
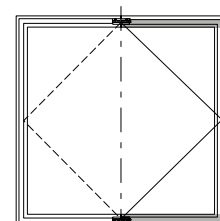
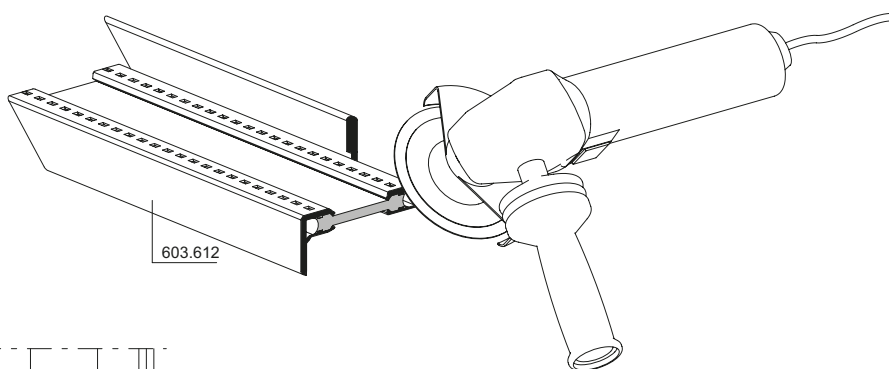
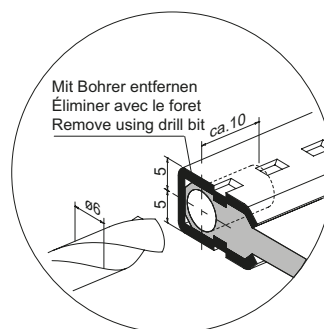
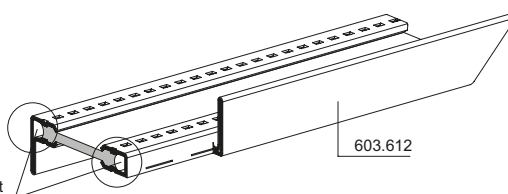
Preparing the sash



Bearbeitung Profil unten spiegelbildlich
 Usinage profilé inférieur réfléchi
 Preparation of profile at the bottom mirror image



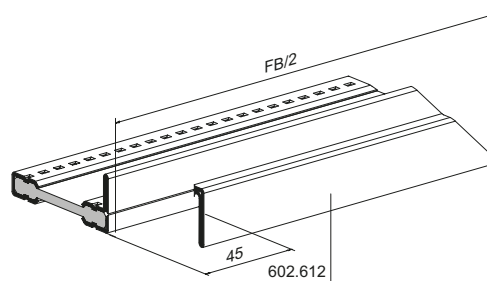
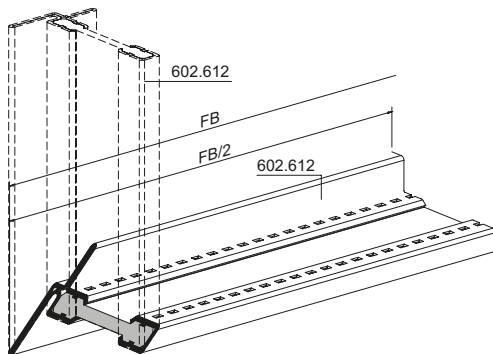
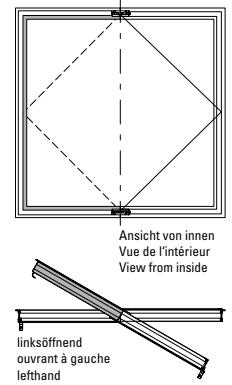
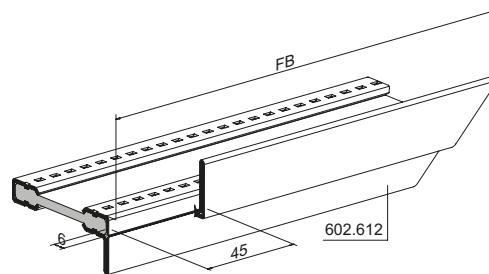
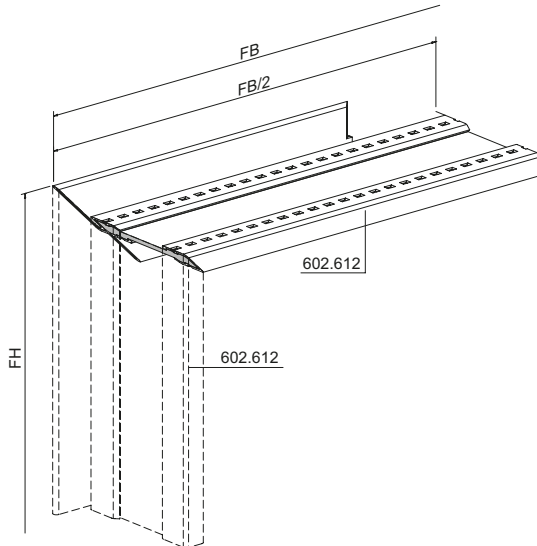
Mit Bohrer entfernen
 Éliminer avec le foret
 Remove using drill bit



Zuschnitt Flügel

Découpe vantail

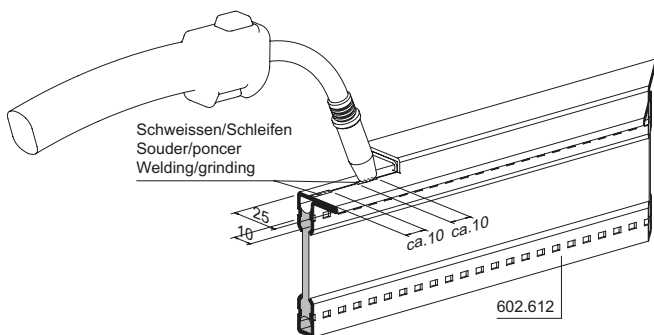
Cutting the sash



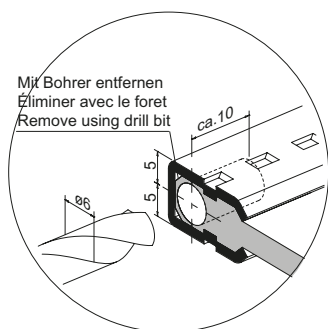
Bearbeitung Flügel

Usinage vantail

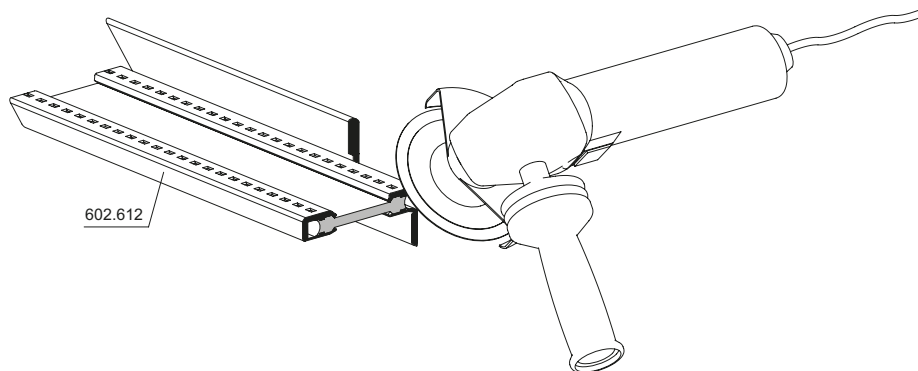
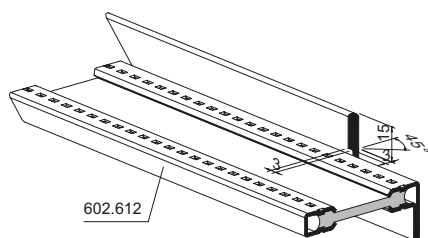
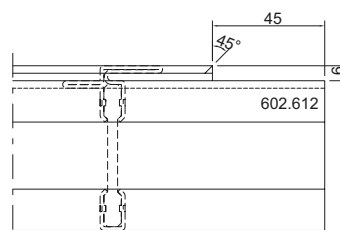
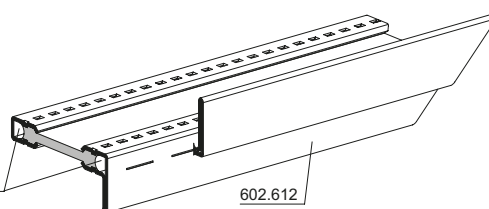
Preparing the sash



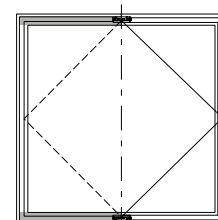
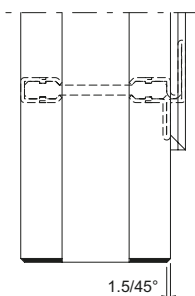
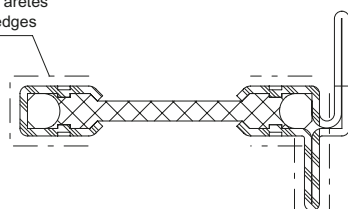
Bearbeitung Profil unten spiegelbildlich
 Usinage profilé inférieur réfléchi
 Preparation of profile at the bottom mirror image



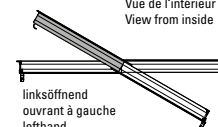
Mit Bohrer entfernen
 Éliminer avec le foret
 Remove using drill bit



Kanten bearbeiten
 Usiner les arêtes
 Machine edges



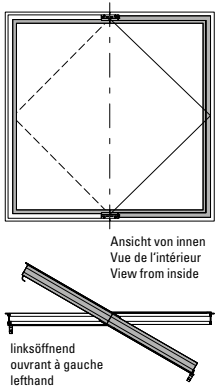
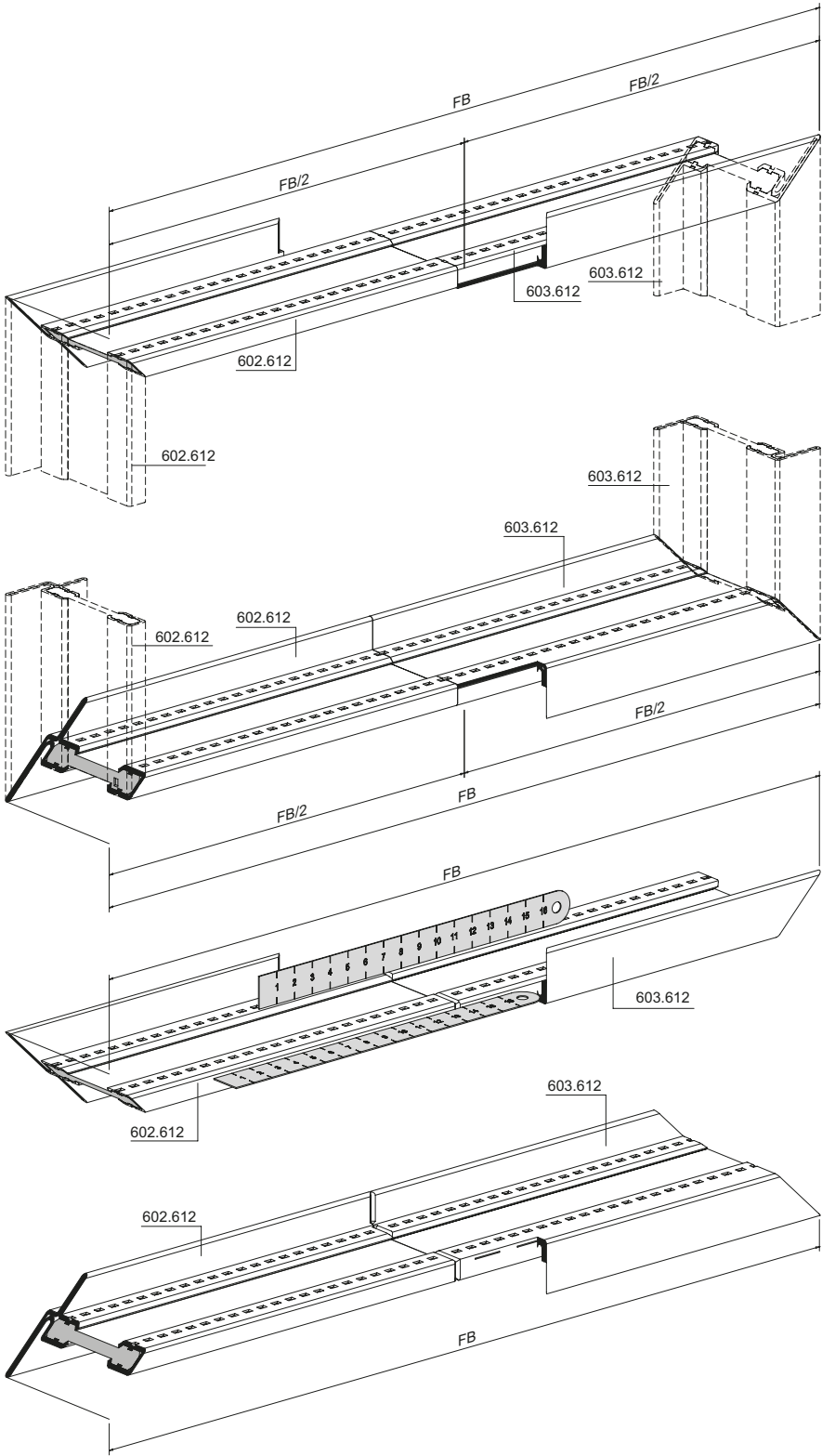
Ansicht von innen
 Vue de l'intérieur
 View from inside



Zusammenbau Flügel

Assemblage de vantail

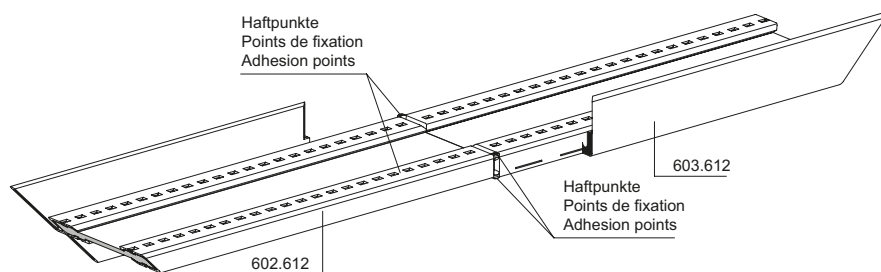
Assembly of sash



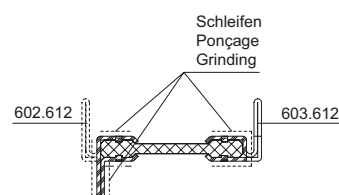
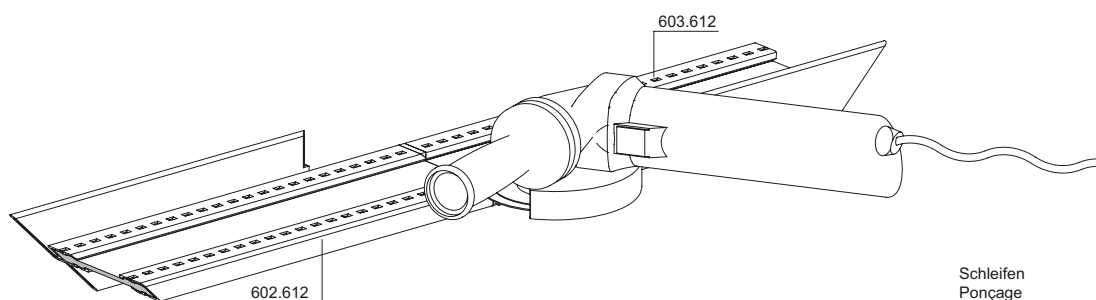
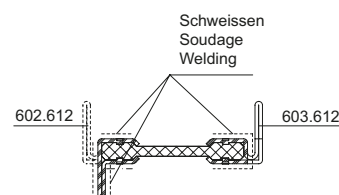
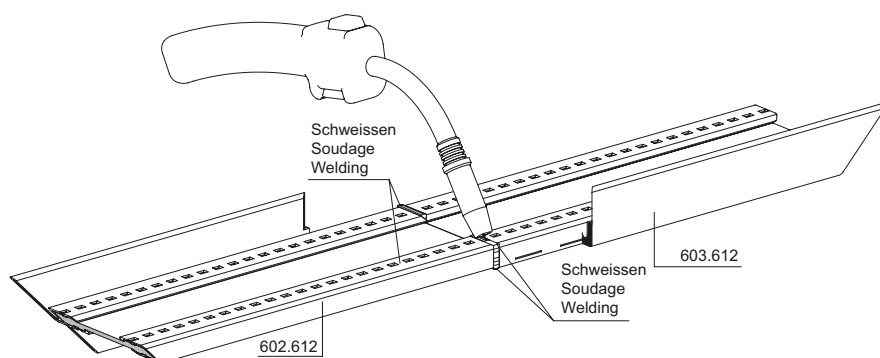
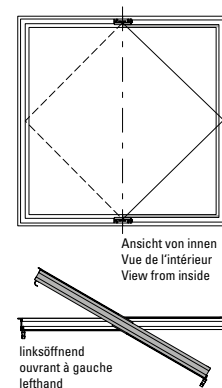
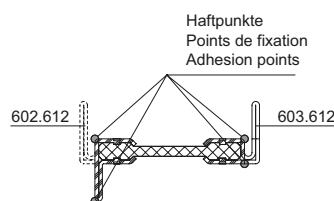
Zusammenbau Flügel

Assemblage de vantail

Assembly of sash



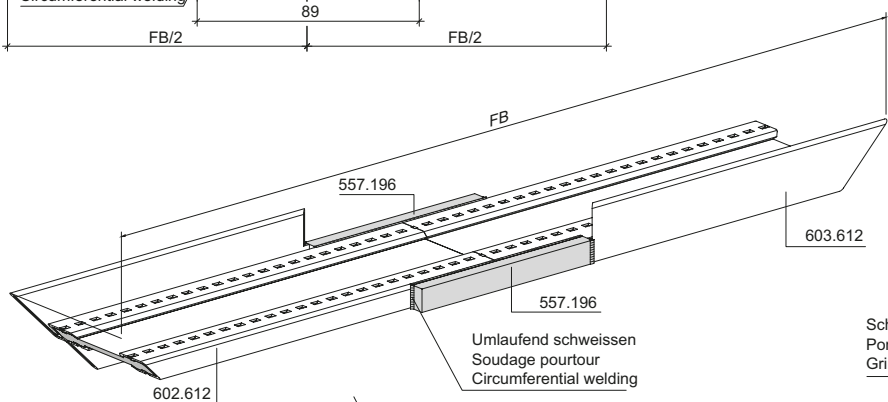
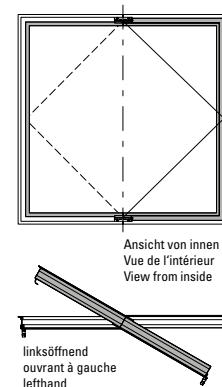
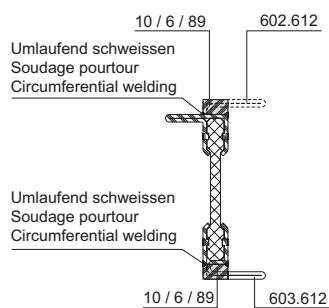
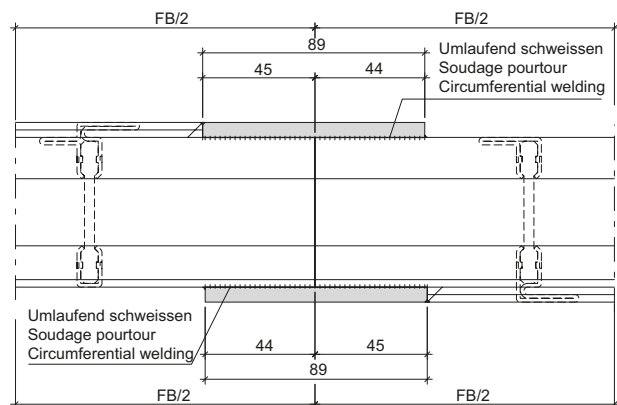
Bearbeitung Profil unten spiegelbildlich
 Usinage profilé inférieur réfléchi
 Preparation of profile at the bottom mirror image



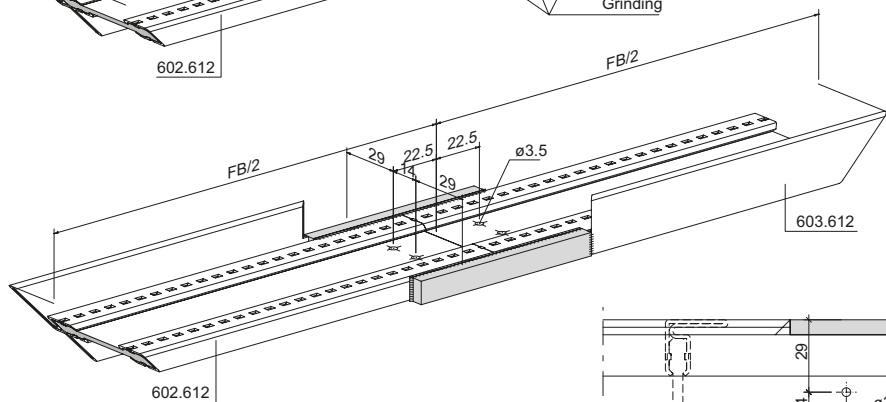
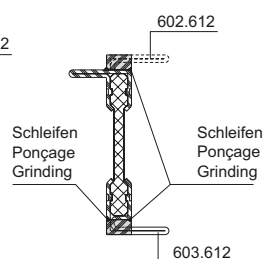
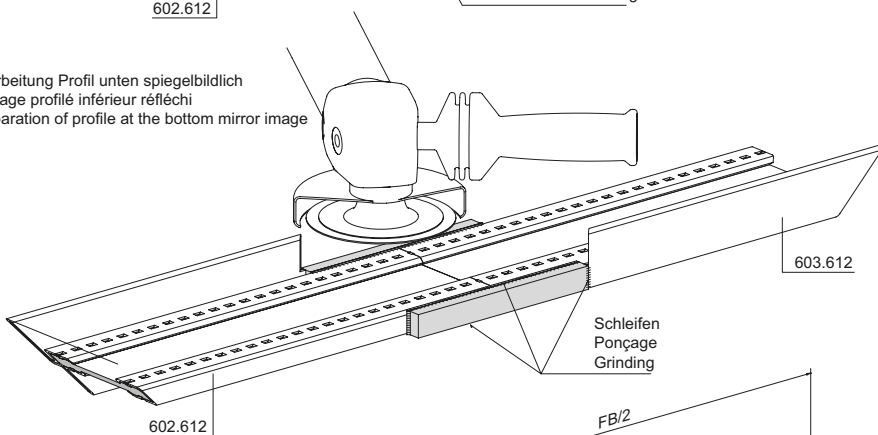
Bearbeitung Flügel

Usinage vantail

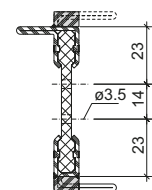
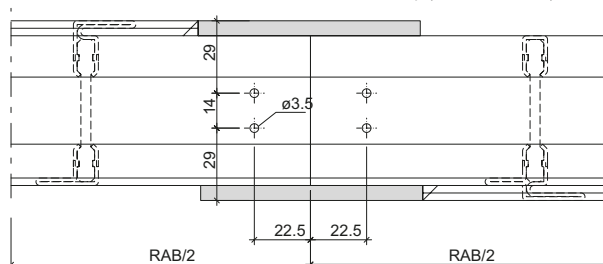
Preparing the sash



Bearbeitung Profil unten spiegelbildlich
 Usinage profilé inférieur réfléchi
 Preparation of profile at the bottom mirror image



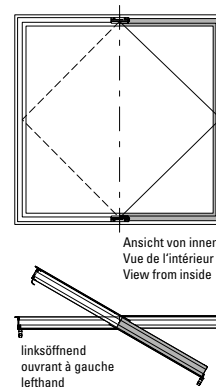
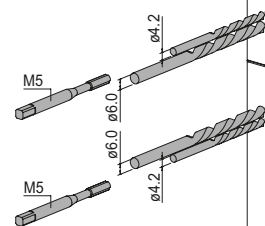
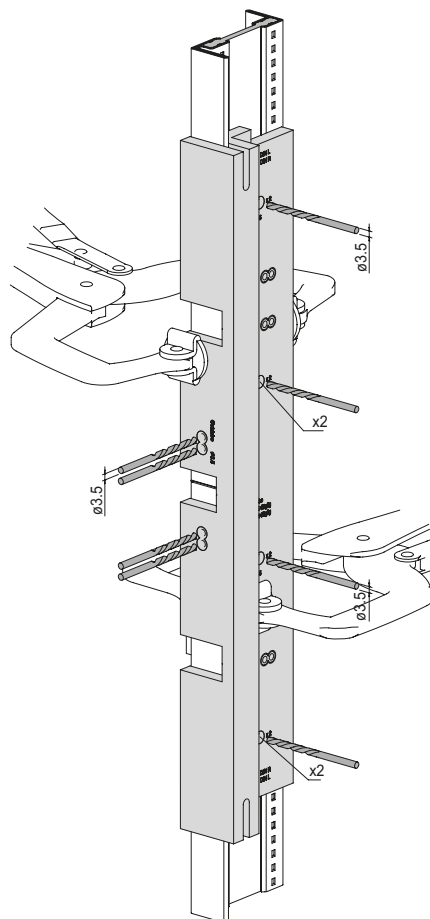
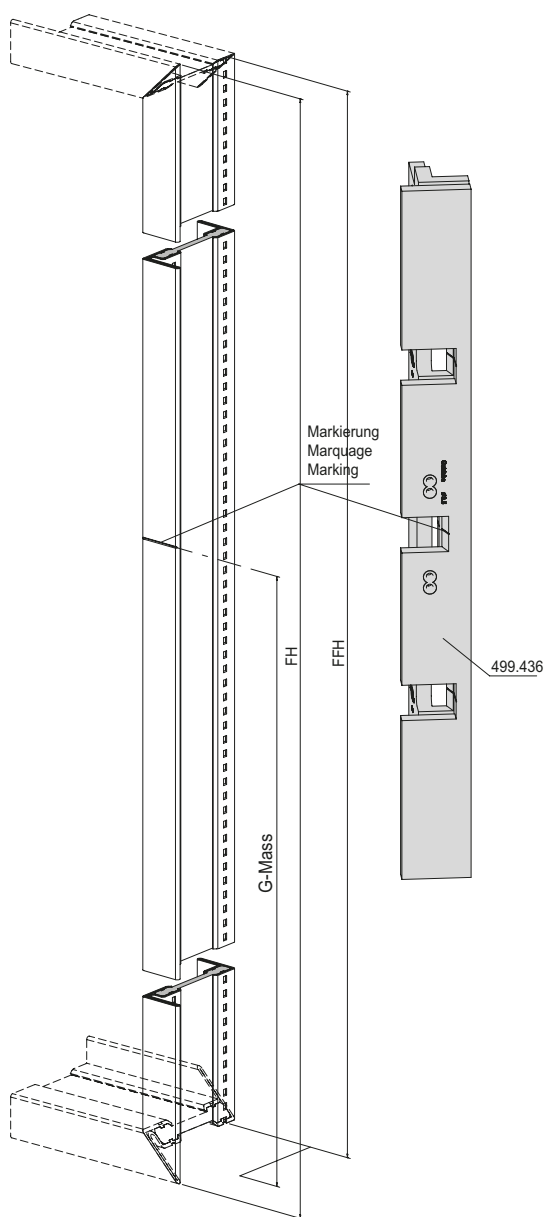
Flügel oben (Ansicht von oben)
 Vantail en haut (vue du haut)
 Sash at top (view from above)



**Bohrlehre 499.436 für
 Getriebe 557.187 und
 Fenstergriff 557.185
 Flügel**

**Gabarit de perçage 499.436 pour
 crémone 557.187 et poignée de
 fenêtre 557.185
 Vantail**

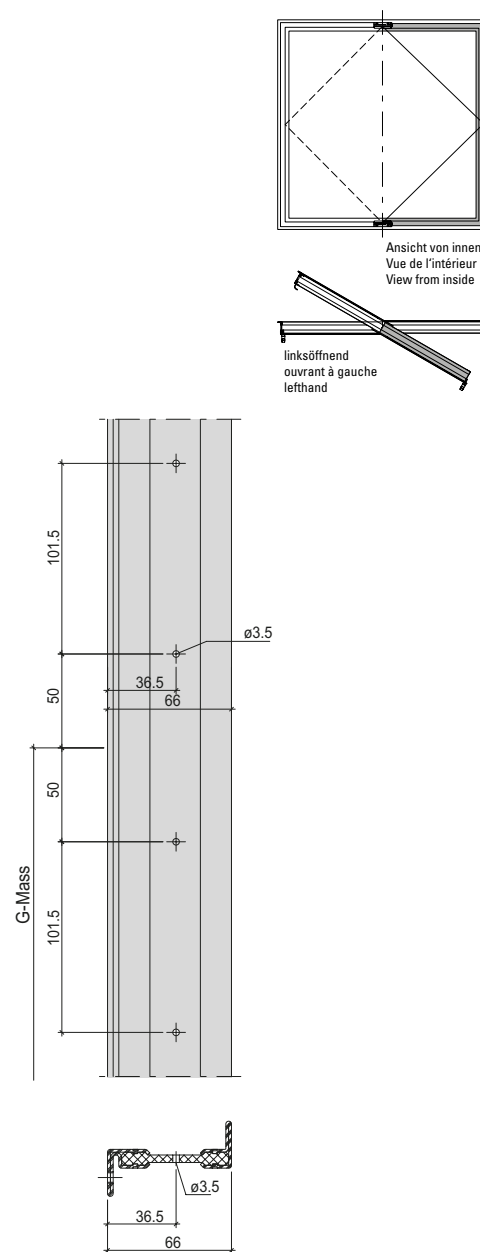
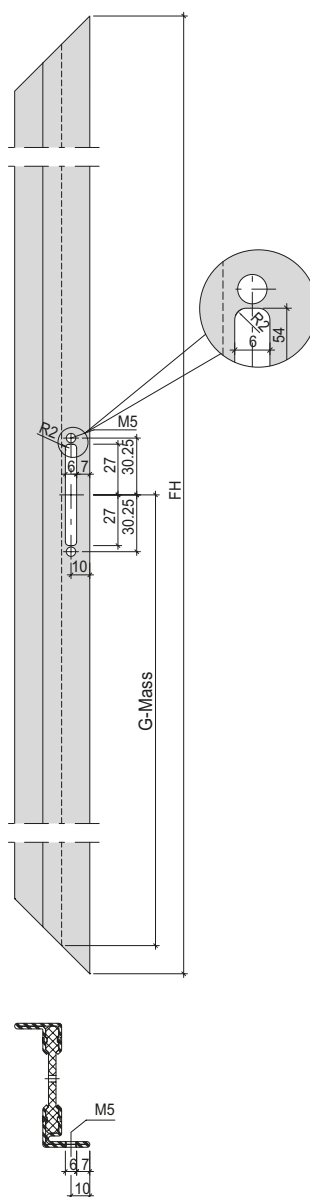
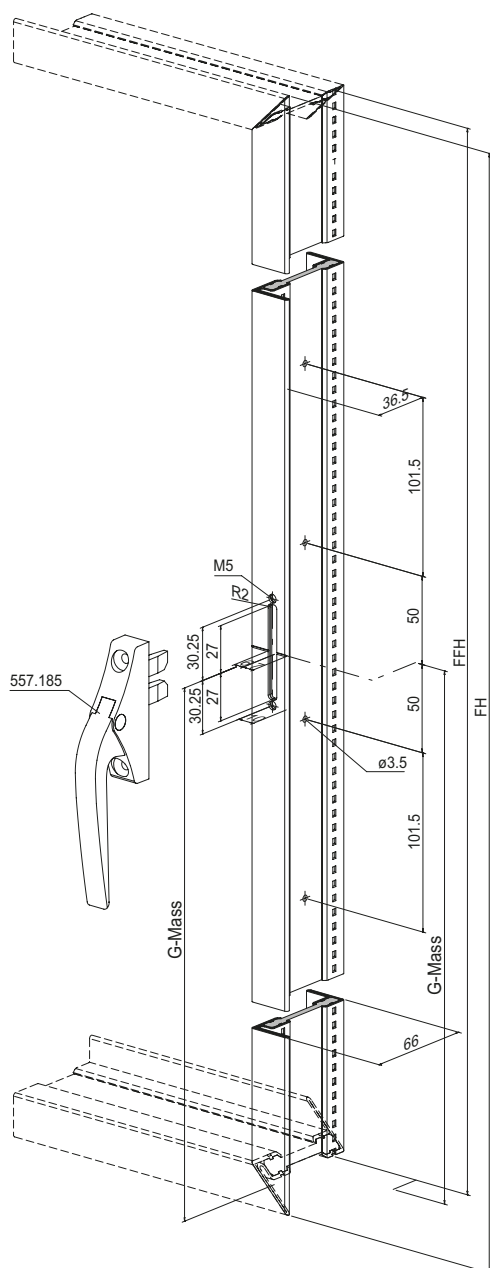
**Drilling jig 499.436 for
 mechanism 557.187 and
 window handle 557.185
 Sash**



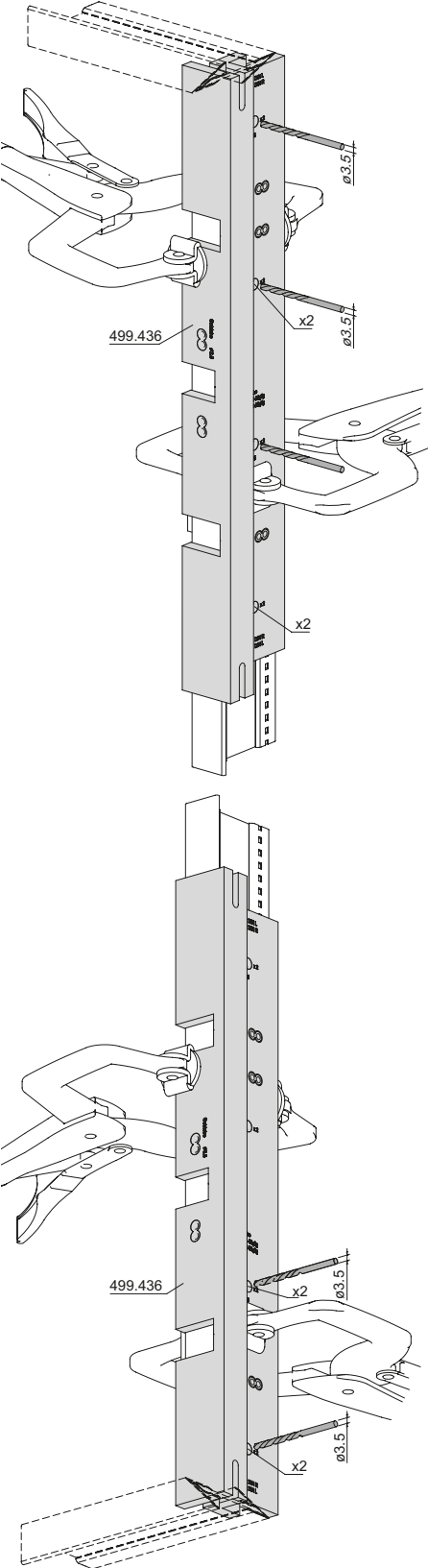
Bohrbild und Fräsung Getriebe 557.187 und Fenstergriff 557.185 Flügel

**Schéma de perçage et fraisage
Crémone 557.187 et poignée de
fenêtre 557.185
Vantail**

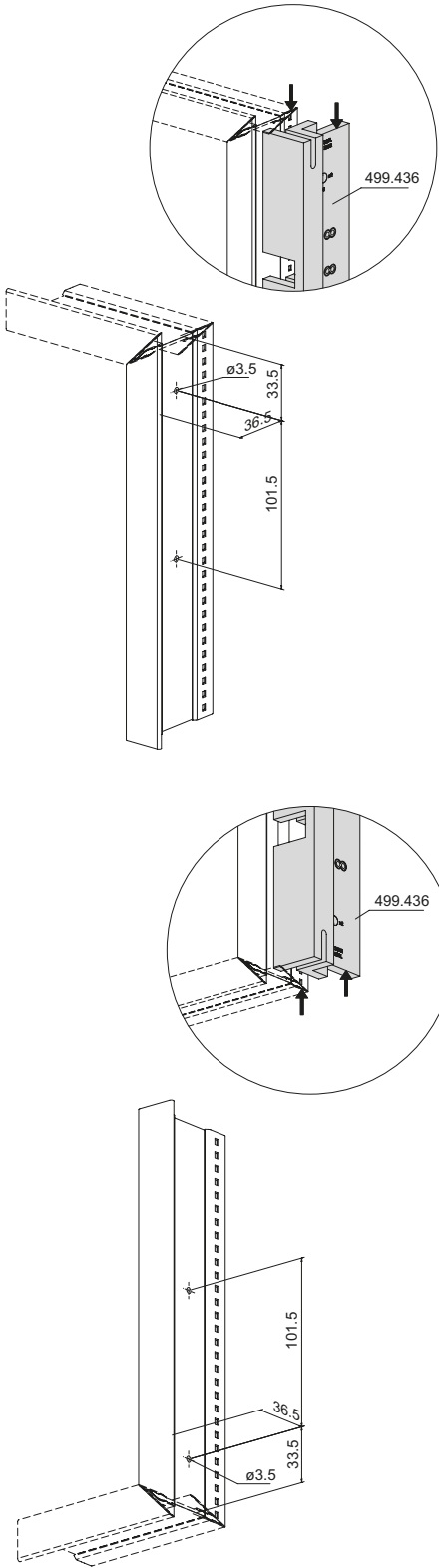
**Drilling pattern and milling
Mechanisme 557.187 and
window handle 557.185
Sash**



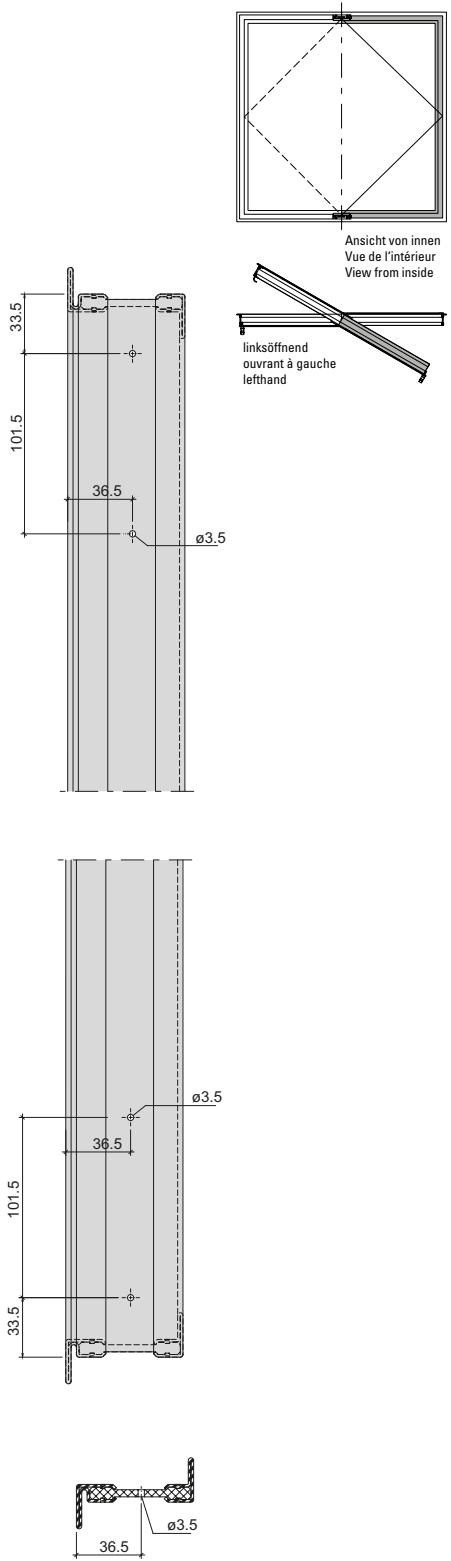
Bohrlehre 499.436 für
Getriebeverlängerung 557.188
Flügel



Gabarit de perçage 499.436 pour
prolongement de la crémonne
557.188 Vantail



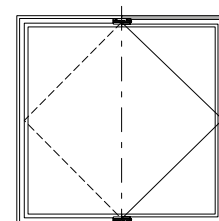
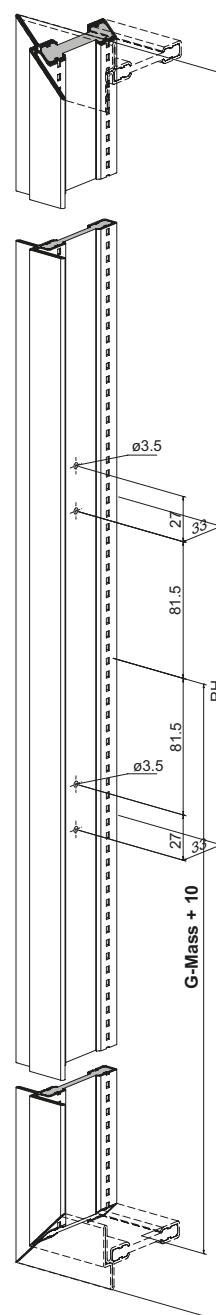
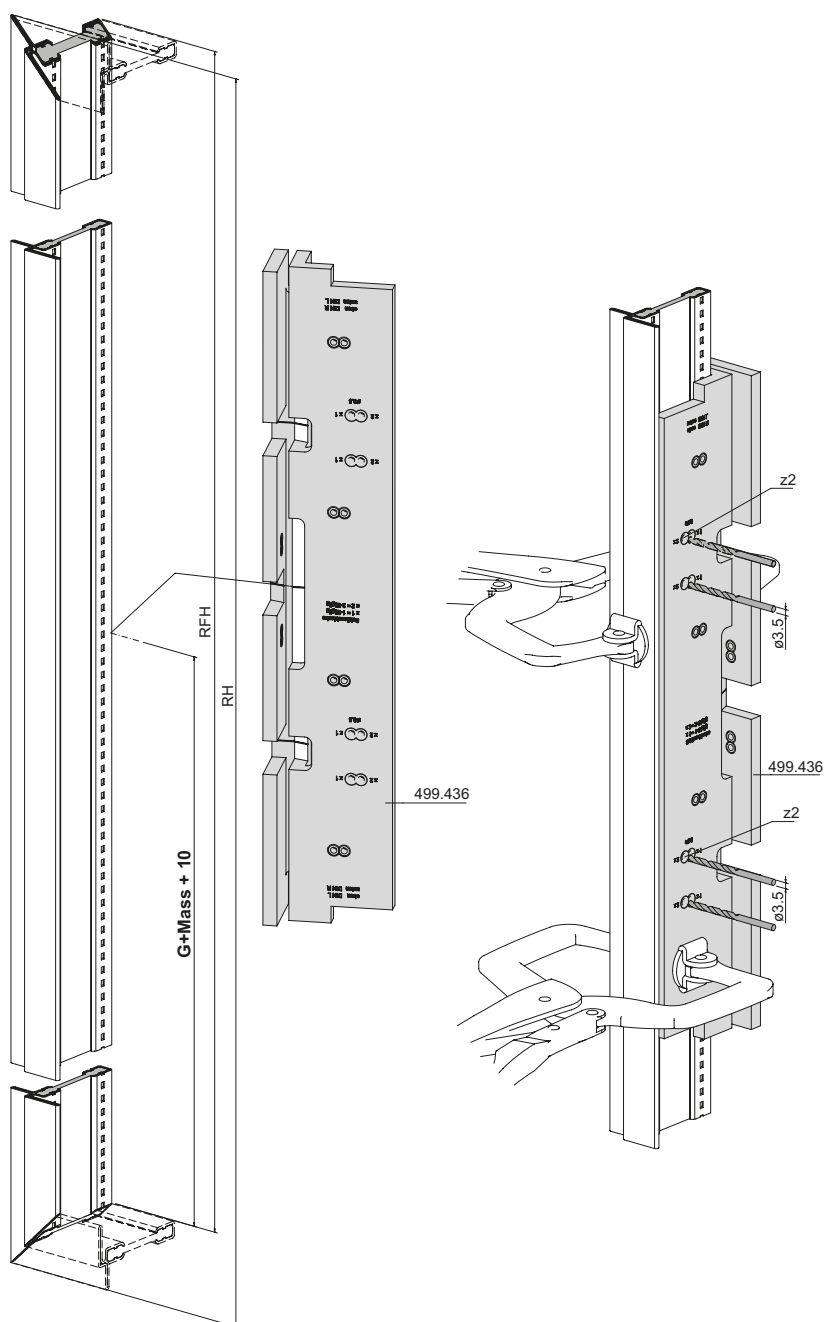
Drilling jig 499.436 for
gearbox extension 557.188
Sash



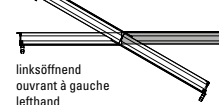
Bohrlehre und Bohrbild 499.436 für
Schliessblech 557.189 beim Getriebe
Rahmen

Gabarit de perçage et schéma
de perçage 499.436 pour gâche
557.189 pour crémonne
Cadre

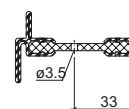
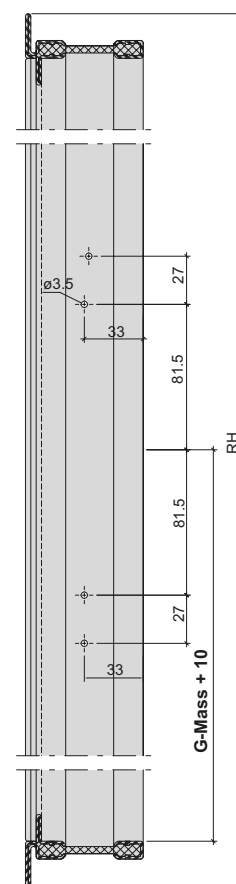
Drilling jig and drilling pattern
499.436 for striking plate 557.189
for mechanism
Frame



Ansicht von innen
Vue de l'intérieur
View from inside



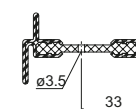
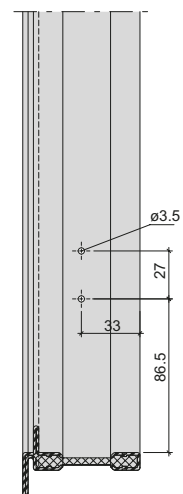
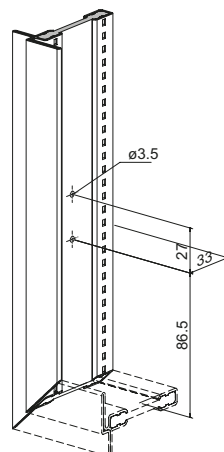
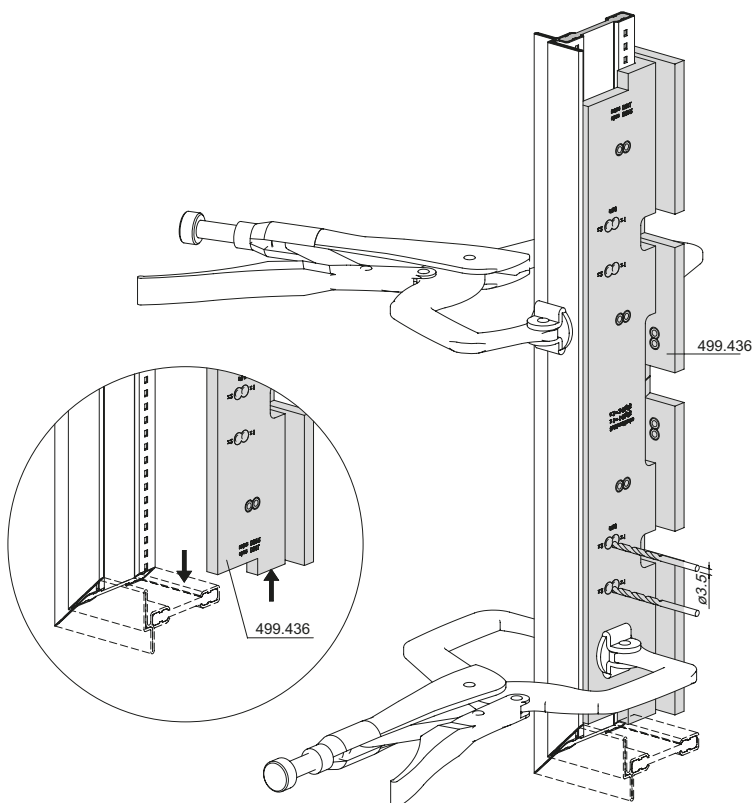
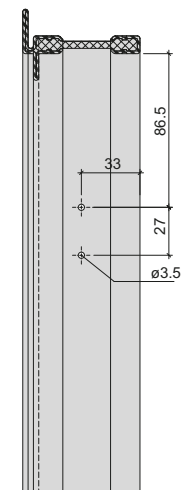
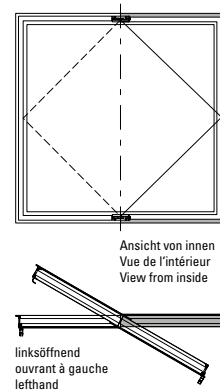
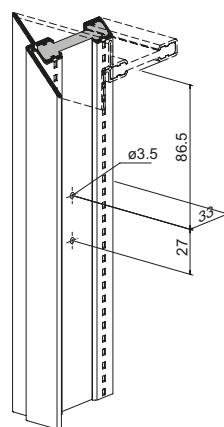
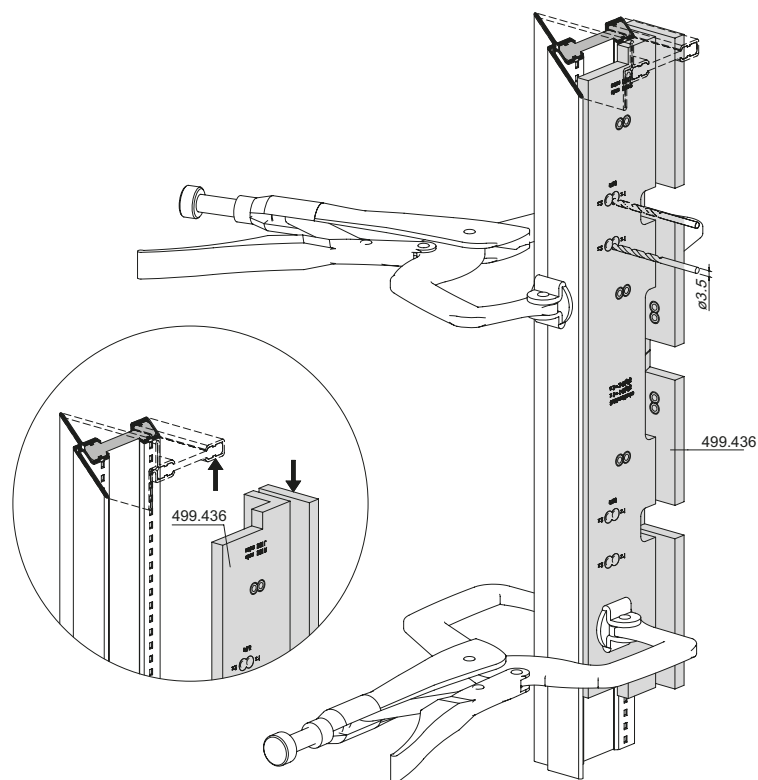
linksöffnend
ouvrant à gauche
lefthand



Bohrlehre 499.436 für
Schliessbleche 557.189
Rahmen

Gabarit de perçage 499.436 pour
gâches 557.189
Cadre

Drilling jig 499.436 for
striking plates 557.189,
Frame

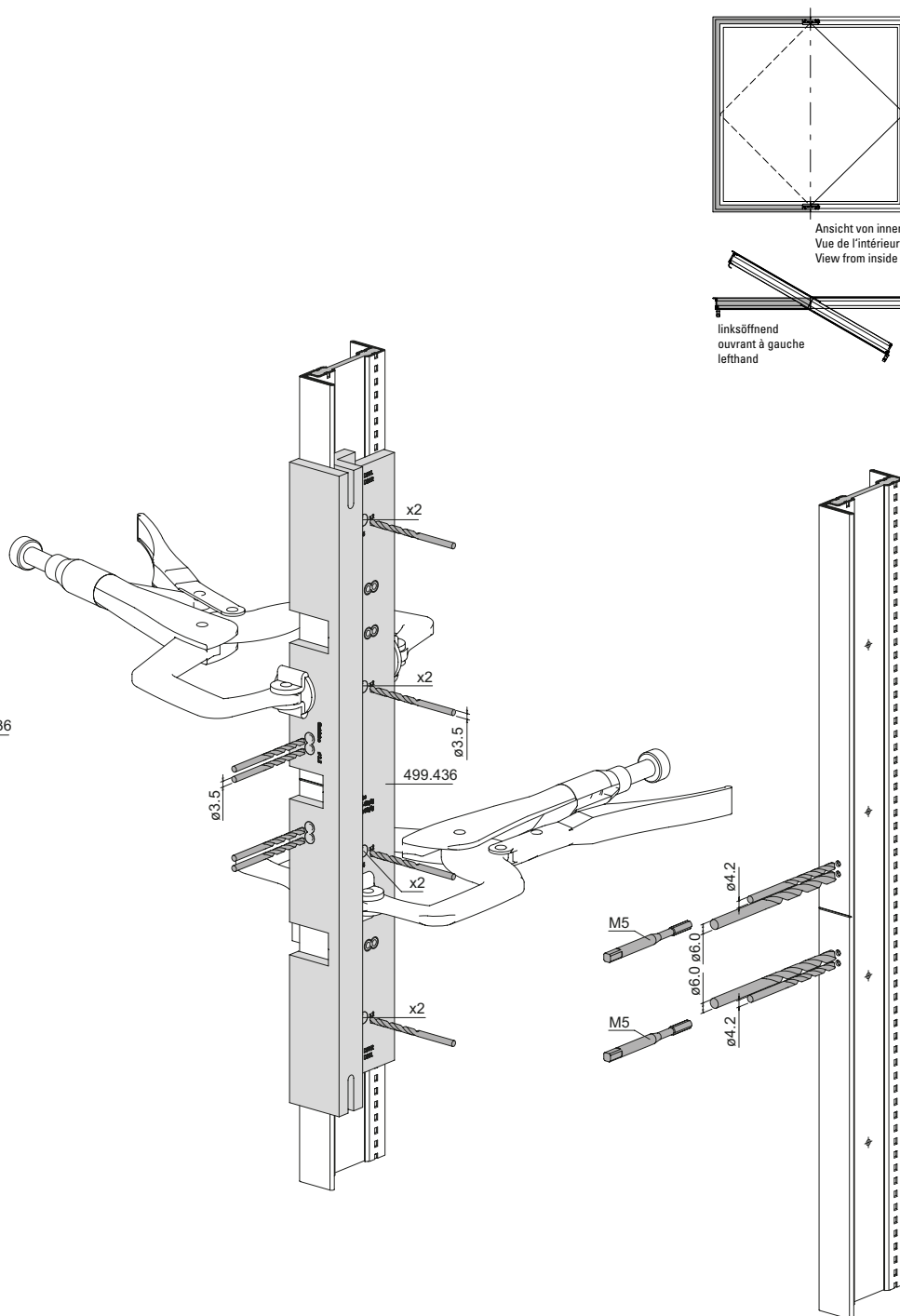
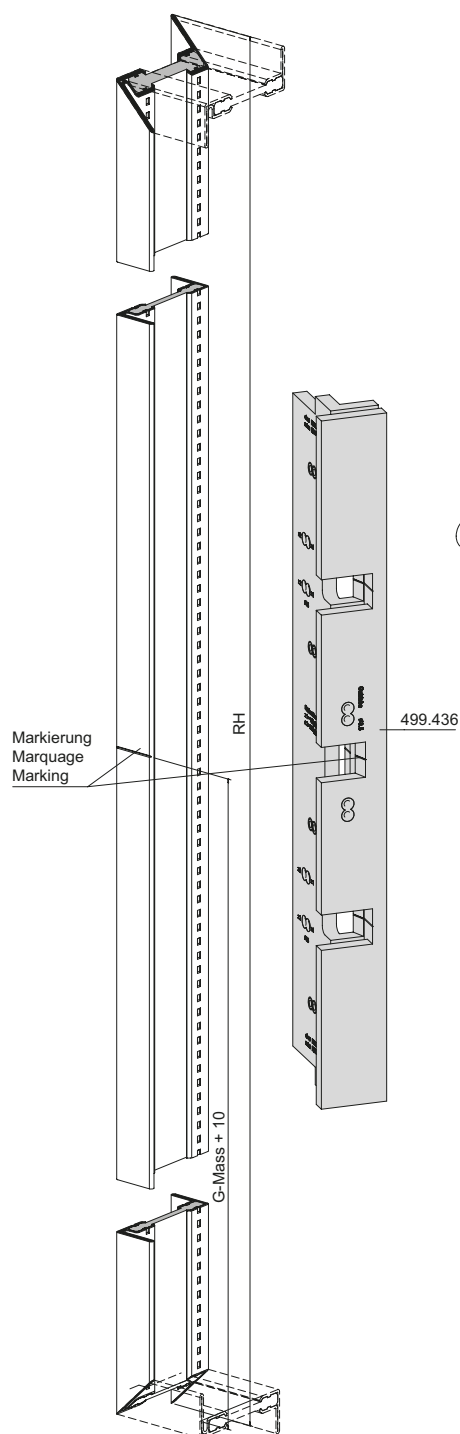


Beschlageinbau	Janisol Arte	2.0
Montage des ferrures	Janisol Arte	
Installation of fittings	Janisol Arte	

**Bohrlehre 499.436 für
 Getriebe 557.187
 und Fenstergriff 557.185
 Rahmen**

**Gabarit de perçage 499.436
 pour crémonne 557.187
 et poignée de fenêtre 557.185
 Cadre**

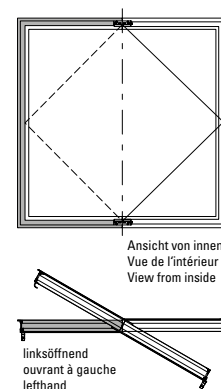
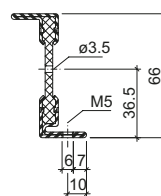
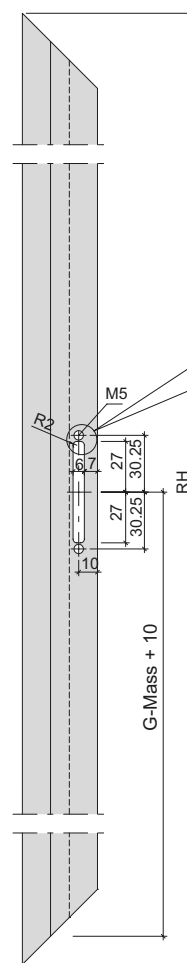
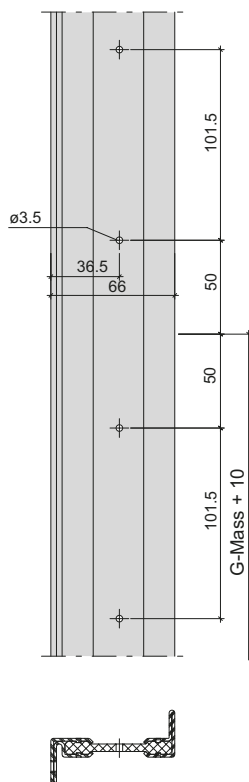
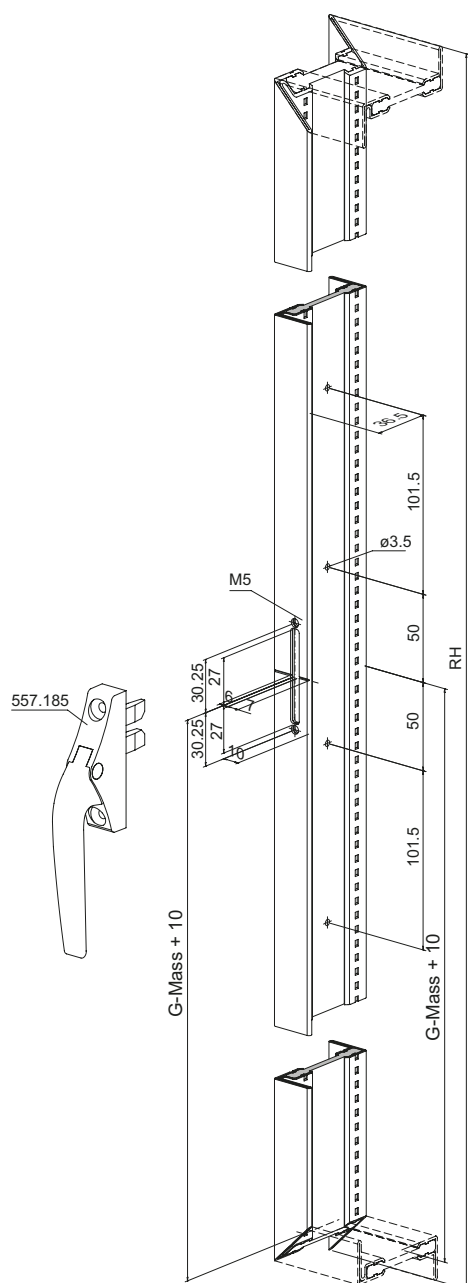
**Drilling jig 499.436 for
 mechanism 557.187
 and window handle 557.185
 Frame**



Bohrbild und Fräsung
für Getriebe 557.187
und Fenstergriff 557.185
Rahmen

Schéma de perçage et fraisage
pour crémonne 557.187
et poignée de fenêtre 557.185
Cadre

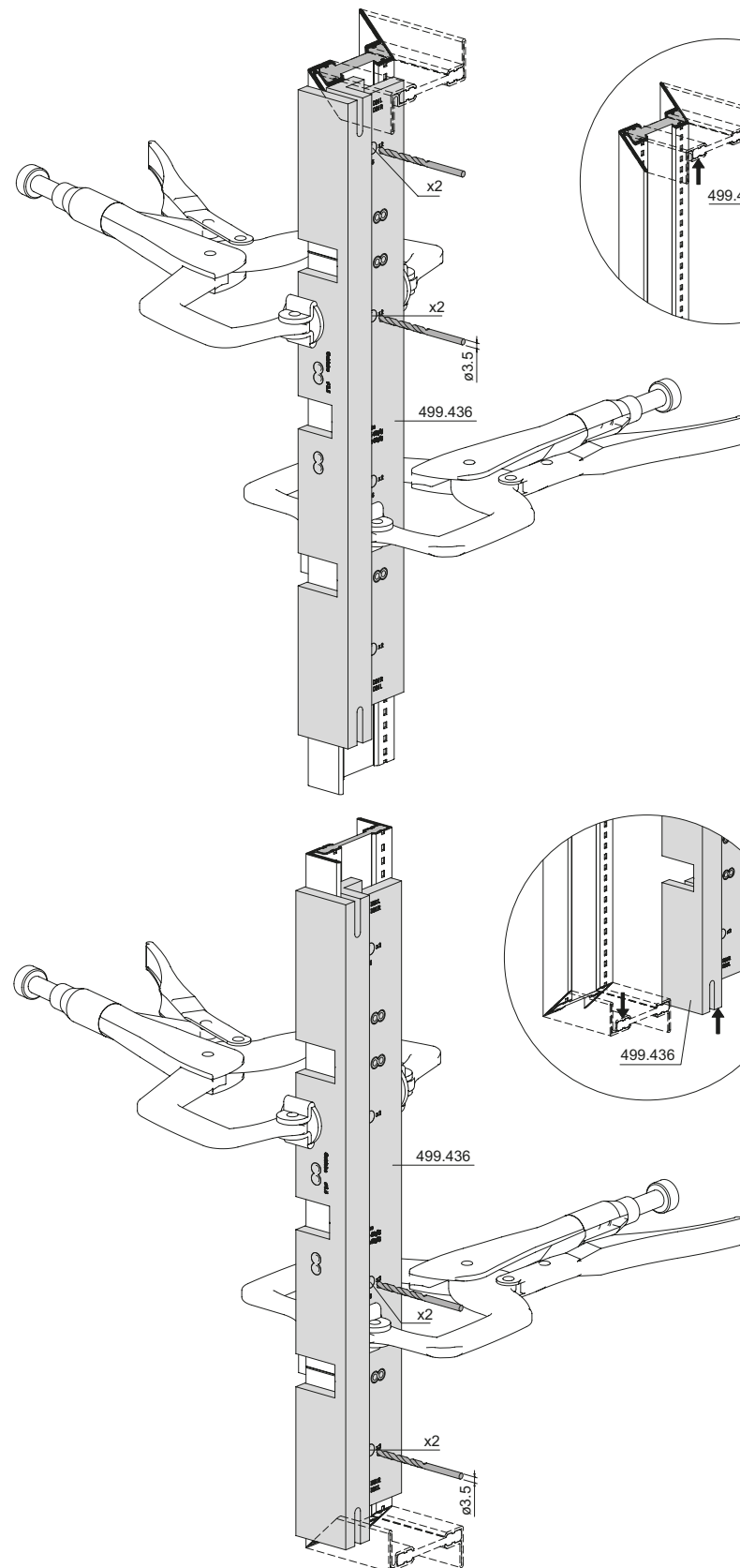
Drilling pattern and machining
for mechanism 557.187
and window handle 557.185
Frame



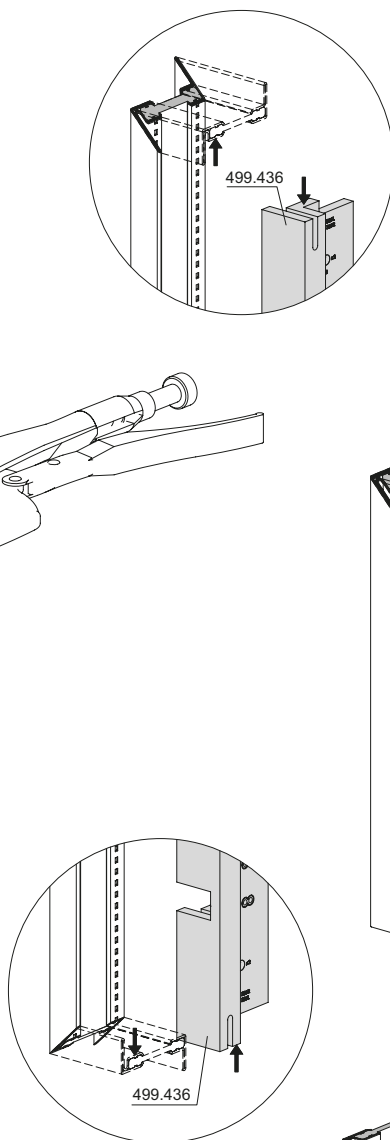
Ansicht von innen
Vue de l'intérieur
View from inside

linksöffnend
ouvrant à gauche
lefthand

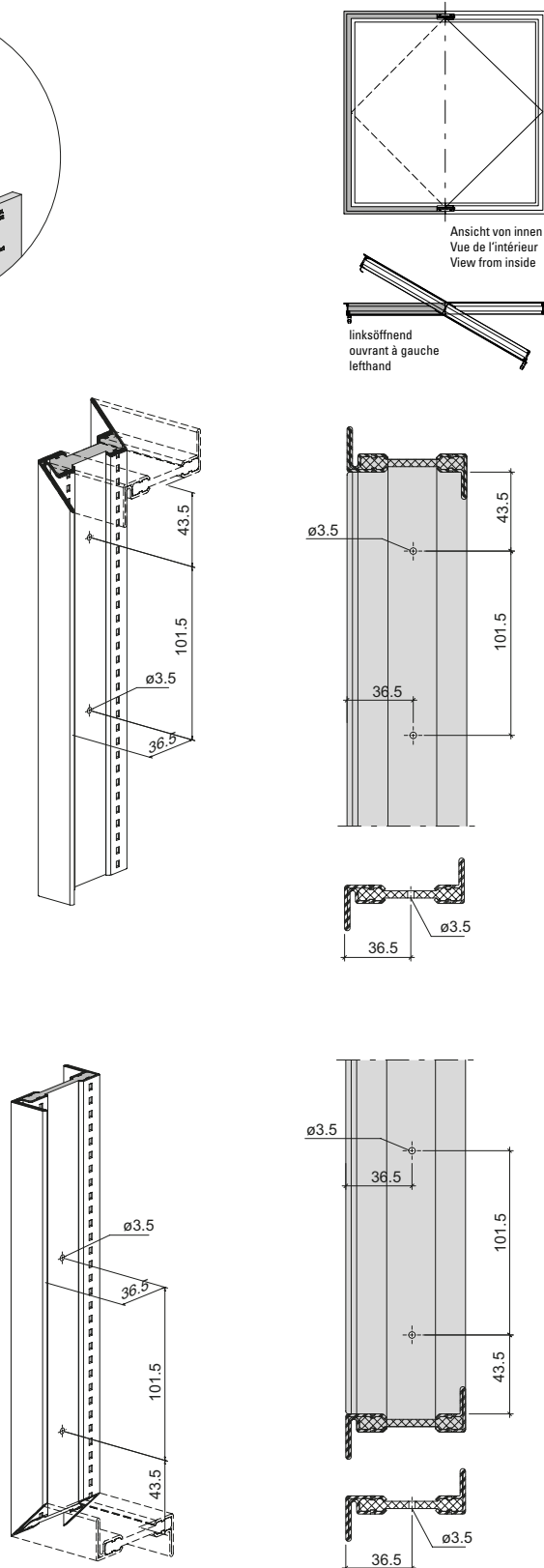
**Bohrlehre 499.436 für
 Getriebeverlängerung 557.188
 Rahmen oben und unten**



**Gabarit de perçage 499.436 pour
 prolongement de la crémonne
 557.188 Cadre en haut et en bas**



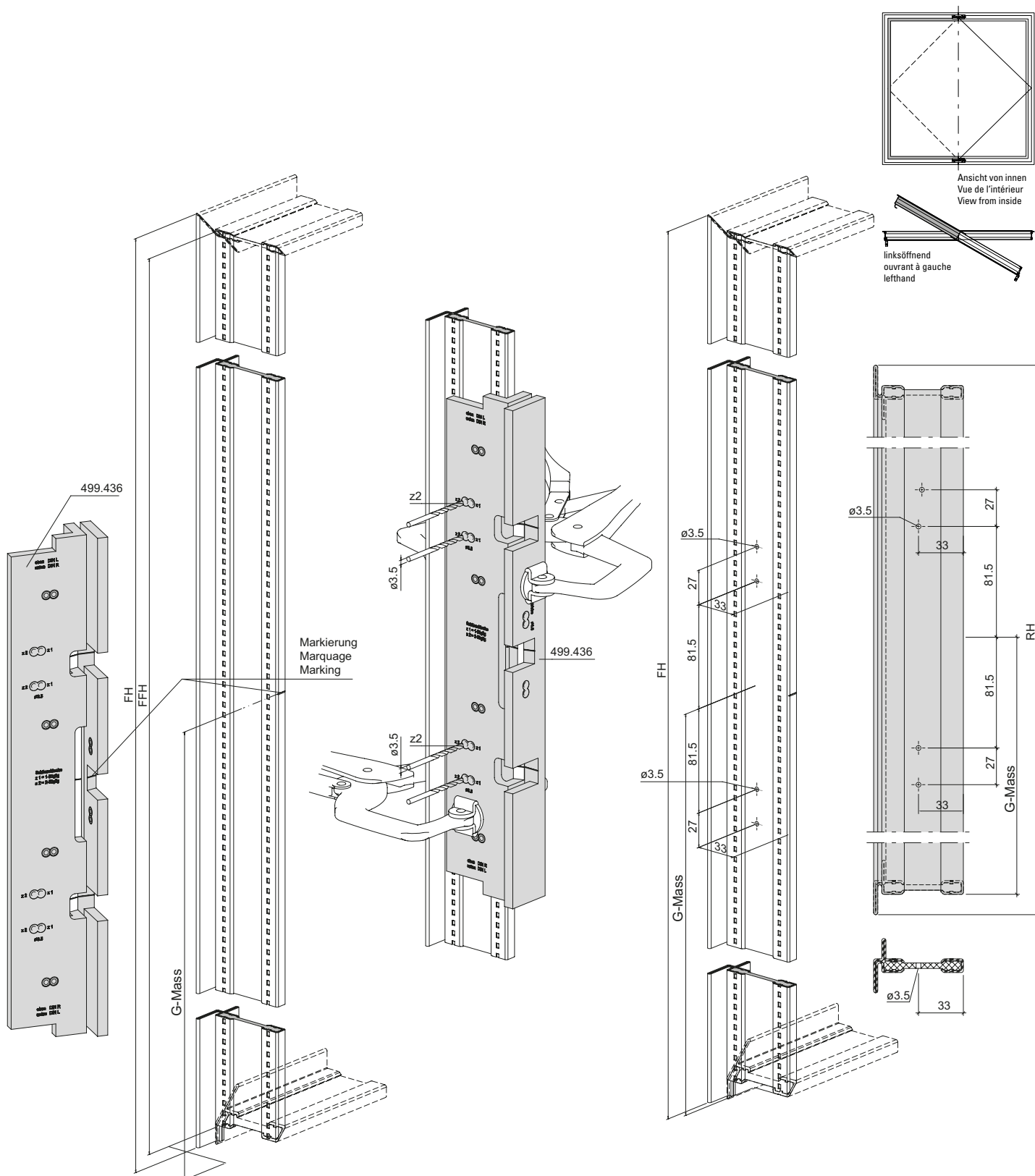
**Drilling jig 499.436 for
 gearbox extension 557.188
 Frame top and bottom**



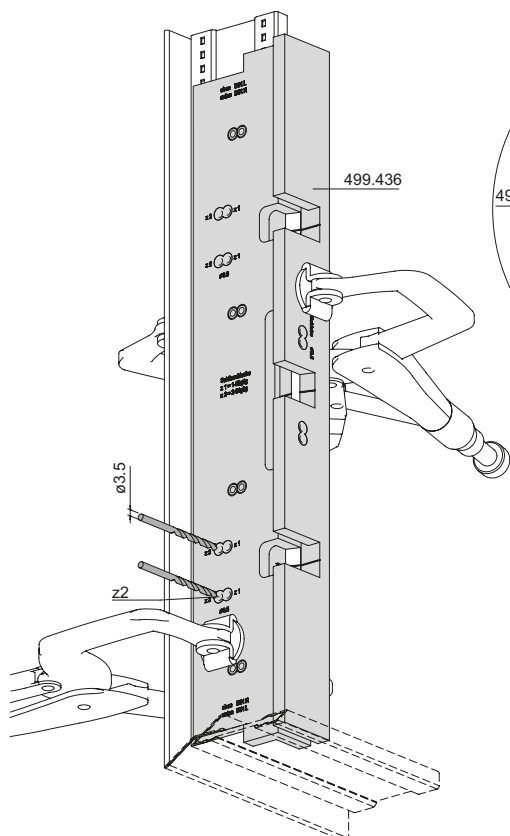
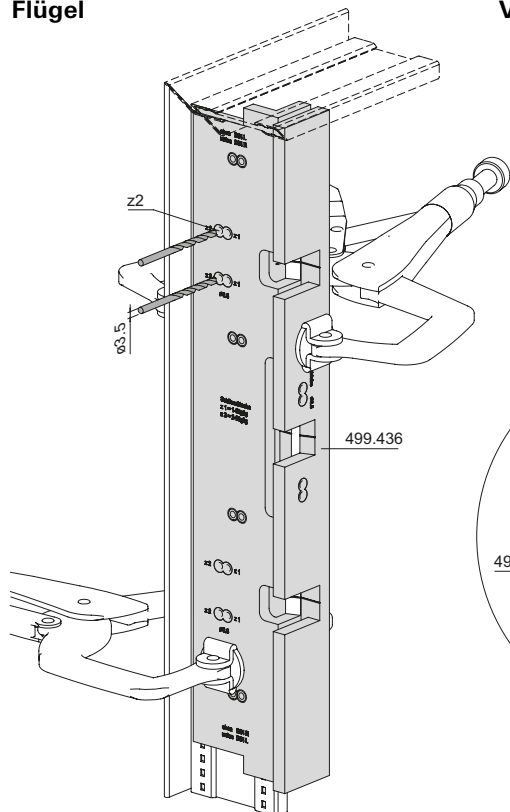
**Bohrlehre 499.436 für
 Schliessblech 557.189 beim Getriebe
 Flügel**

**Gabarit de perçage 499.436 pour
 gâche 557.189 pour crémonne
 Vantail**

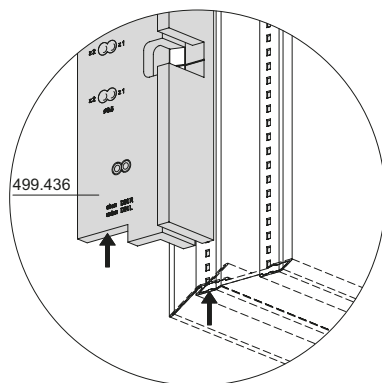
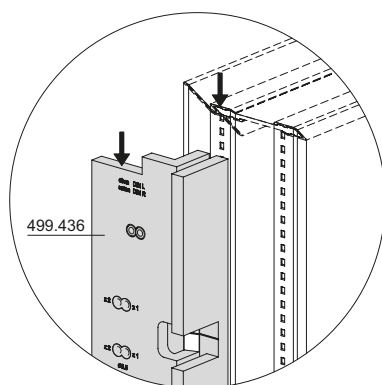
**Drilling jig 499.436 for striking plate
 557.189 for mechanism
 Sash**



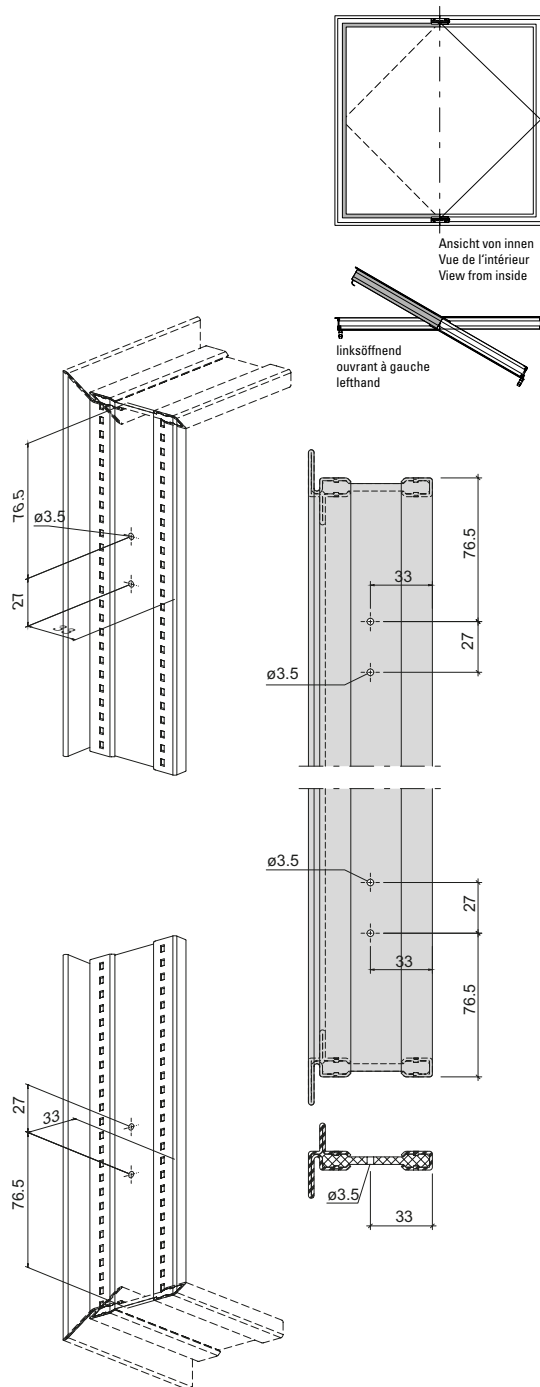
Bohrlehre 499.436 für
Schliessbleche 557.189
oben und unten
Flügel



Gabarit de perçage 499.436 pour
gâches 557.189
en haut et en bas
Vantail



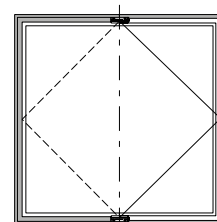
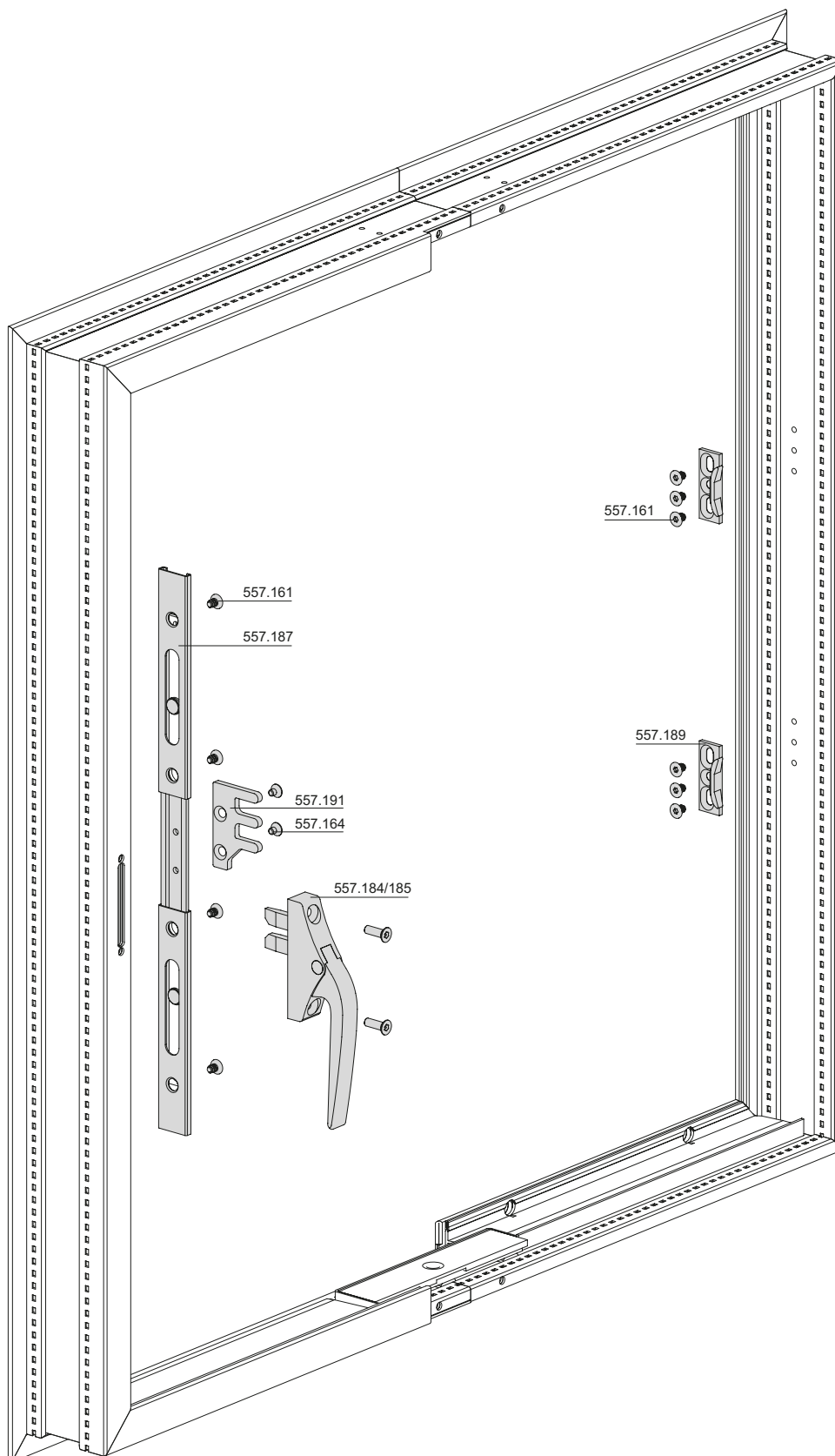
Drilling jig 499.436 for
striking plates 557.189,
top and bottom
Sash



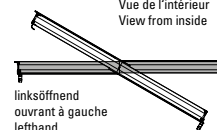
Einbau Beschlag
Rahmen

Montage de la ferrure
Cadre

Installation of fittings
Frame



Ansicht von innen
Vue de l'intérieur
View from inside

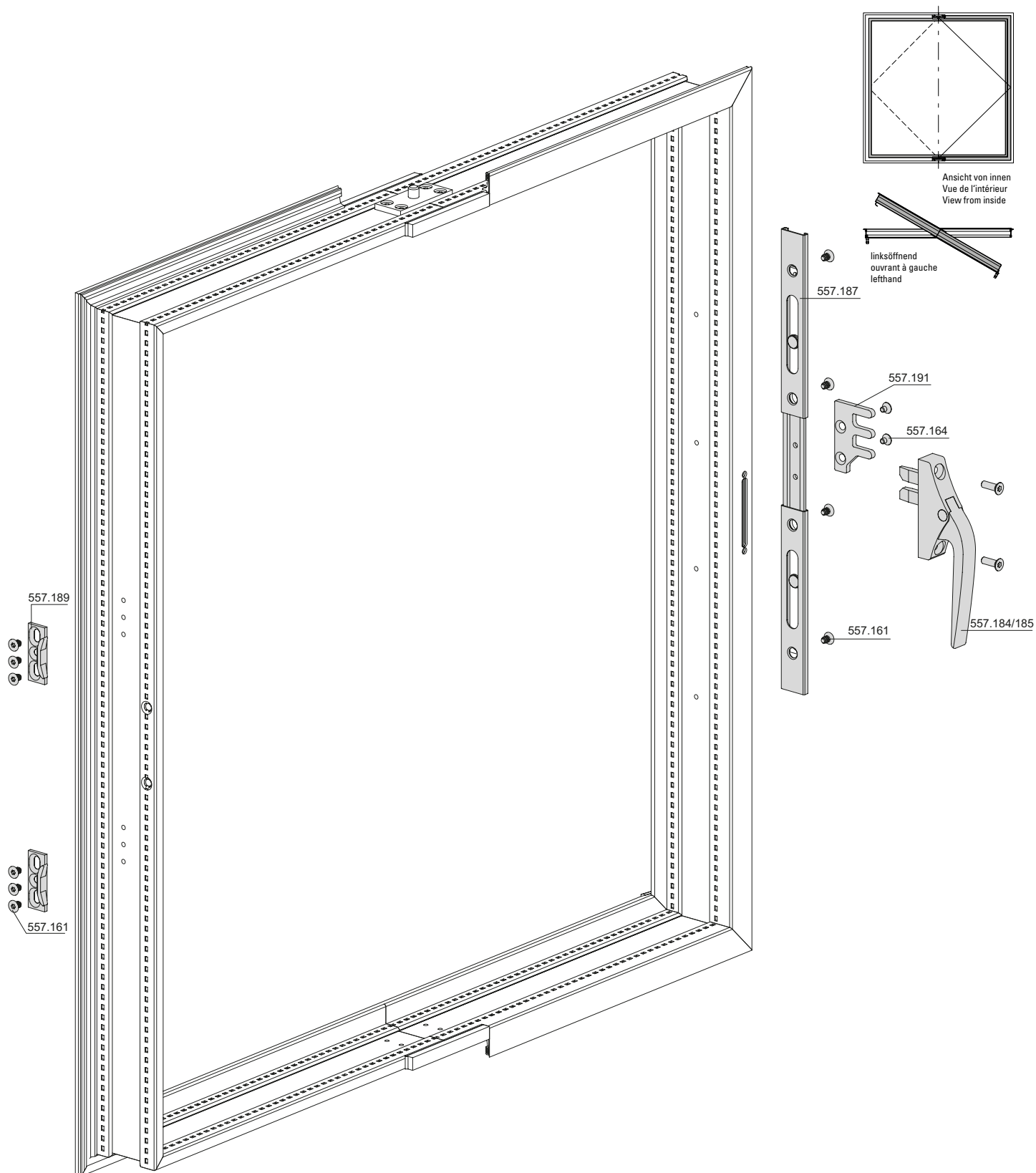


linksöffnend
ouvrant à gauche
lefthand

Einbau Beschlag
Flügel

Montage de la ferrure
Vantail

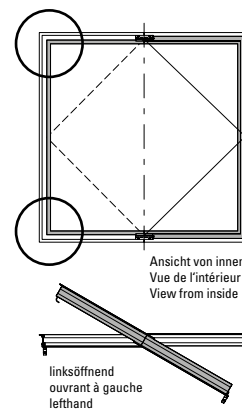
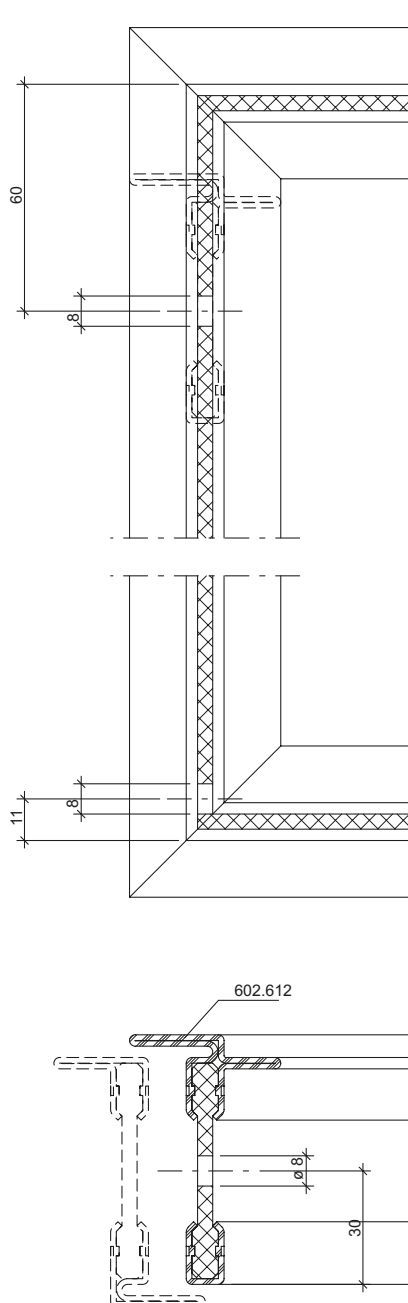
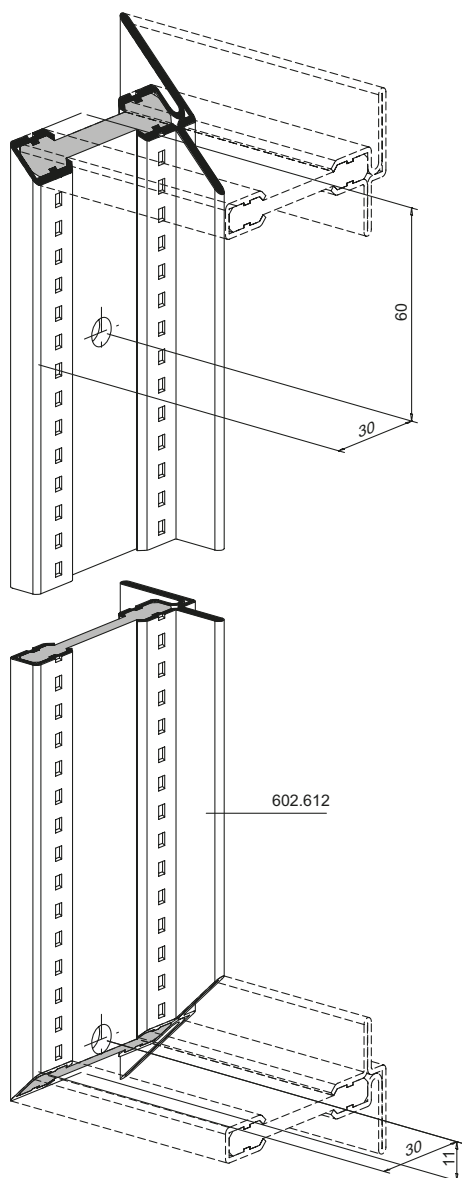
Installation of fittings
Sash



Glasfalzbelüftung
Fensterflügel auswärts öffnend

Aération de feuillure
Vantail de fenêtre
ouvrant vers l'extérieur

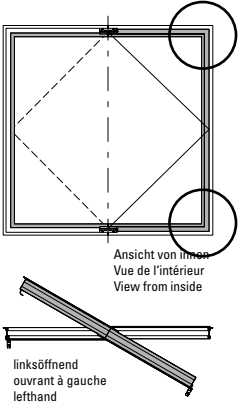
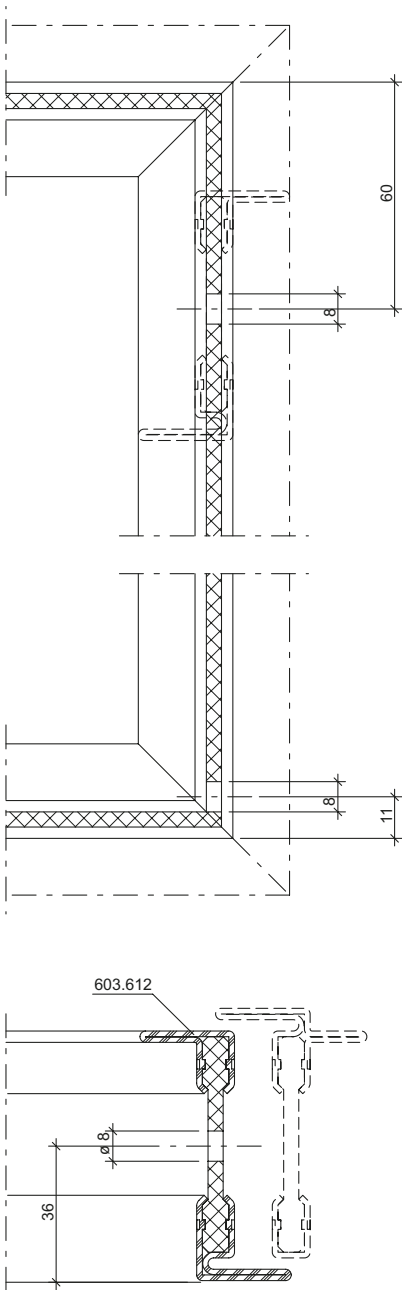
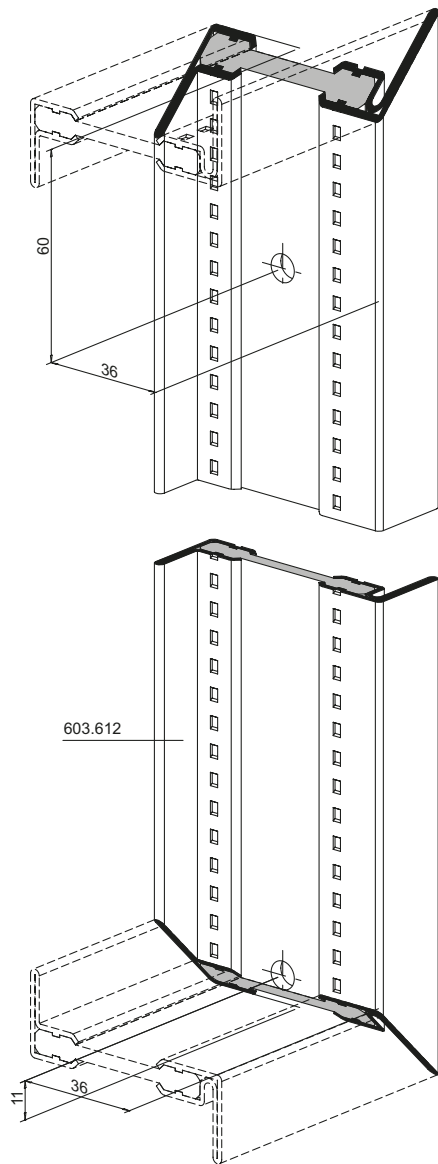
Glazing rebate ventilation
Window sash outward opening



Glasfalzbelüftung
Fensterflügel einwärts öffnend

Aération de feuillure
Vantail de fenêtre
ouvrant vers l'intérieur

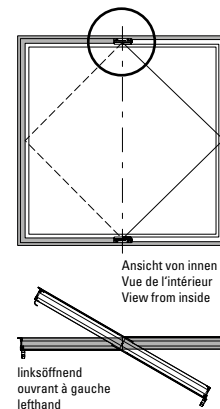
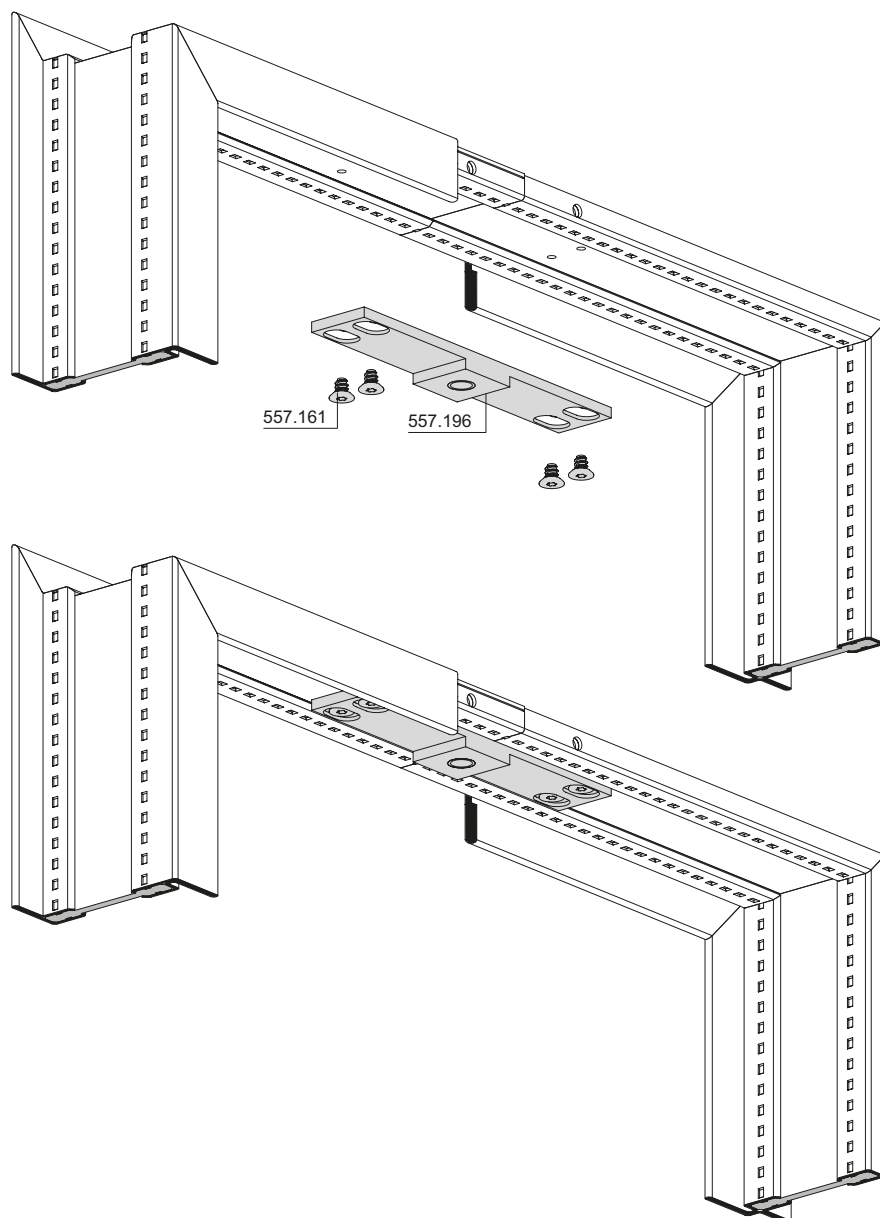
Glazing rebate ventilation
Window sash inward opening



Einbau Wendelager oben

Montage du pivot supérieur

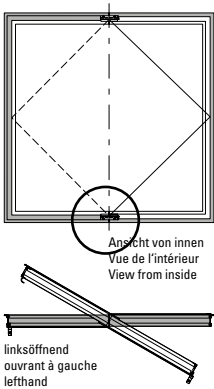
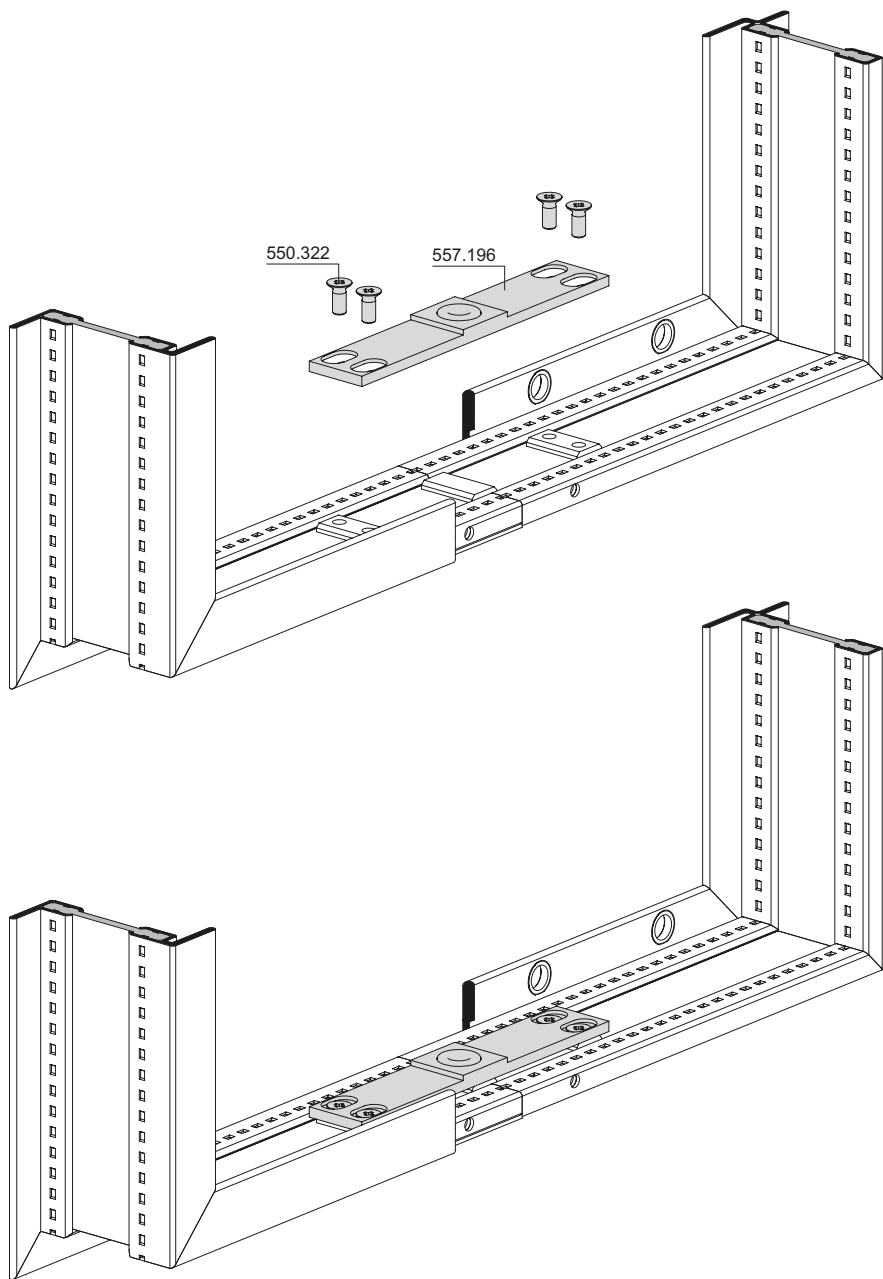
Installation of top pivot bearing



Einbau Wendelager unten

Montage du pivot inférieur

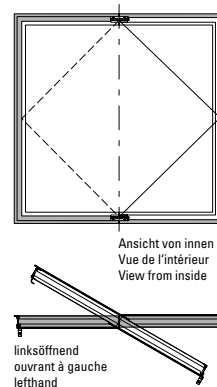
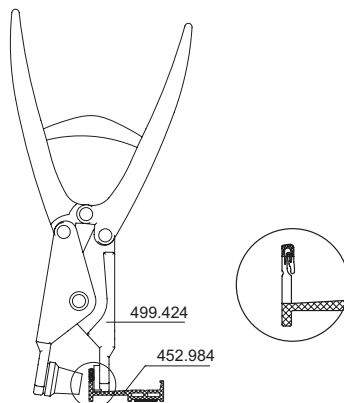
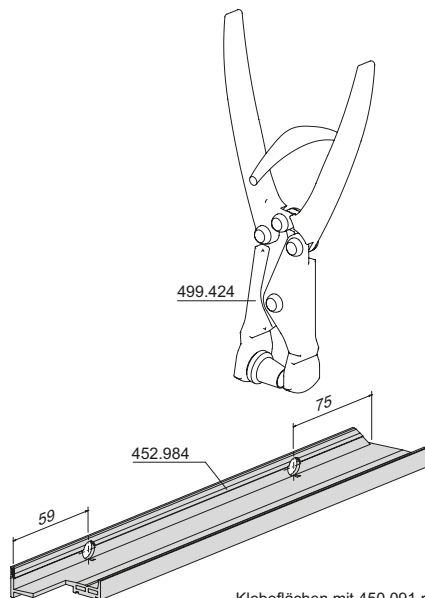
Installation of bottom pivot bearing



Vorbereitung für Einbau
Entwässerungsprofil 452.984

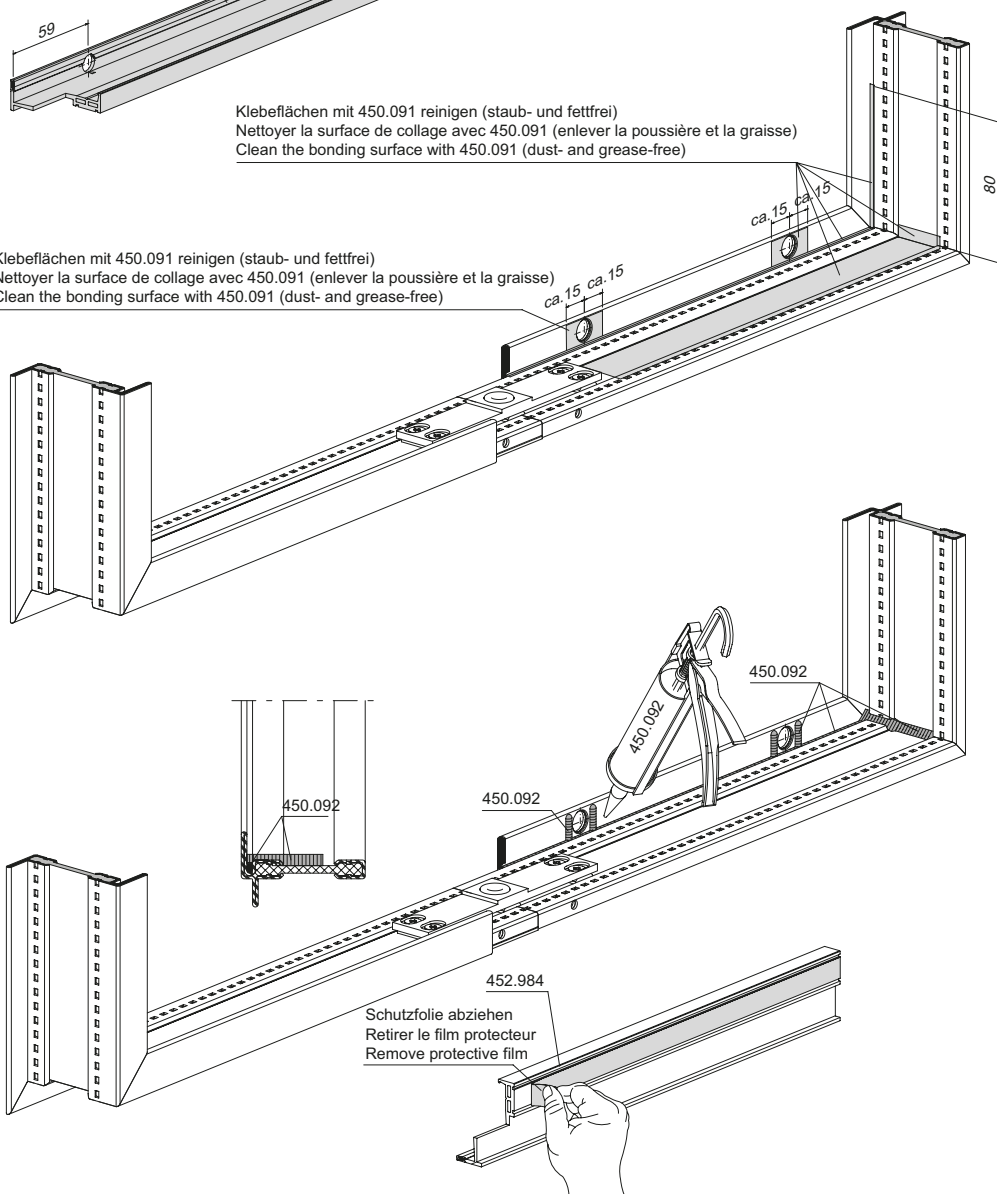
Préparation pour montage
profilé de drainage 452.984

Preparation for installation
drainage profile 452.984



Klebeflächen mit 450.091 reinigen (staub- und fettfrei)
 Nettoyer la surface de collage avec 450.091 (enlever la poussière et la graisse)
 Clean the bonding surface with 450.091 (dust- and grease-free)

Klebeflächen mit 450.091 reinigen (staub- und fettfrei)
 Nettoyer la surface de collage avec 450.091 (enlever la poussière et la graisse)
 Clean the bonding surface with 450.091 (dust- and grease-free)

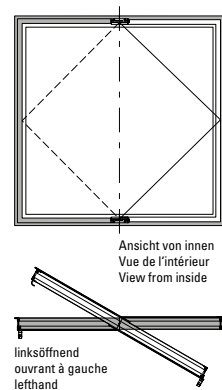
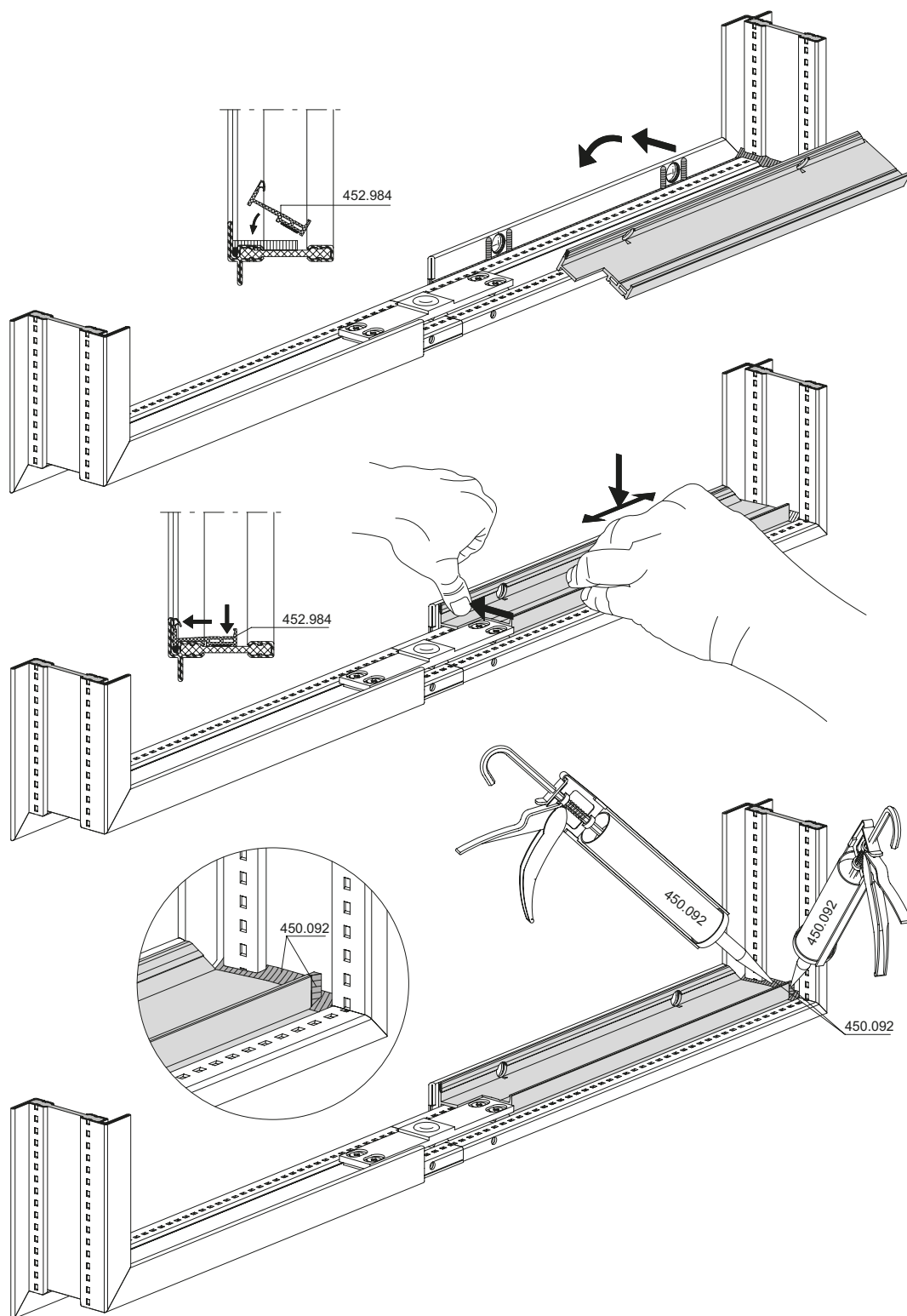


Schutzfolie abziehen
 Retirer le film protecteur
 Remove protective film

Einbau
Entwässerungsprofil 452.984

Montage
Profilé de drainage 452.984

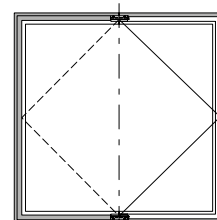
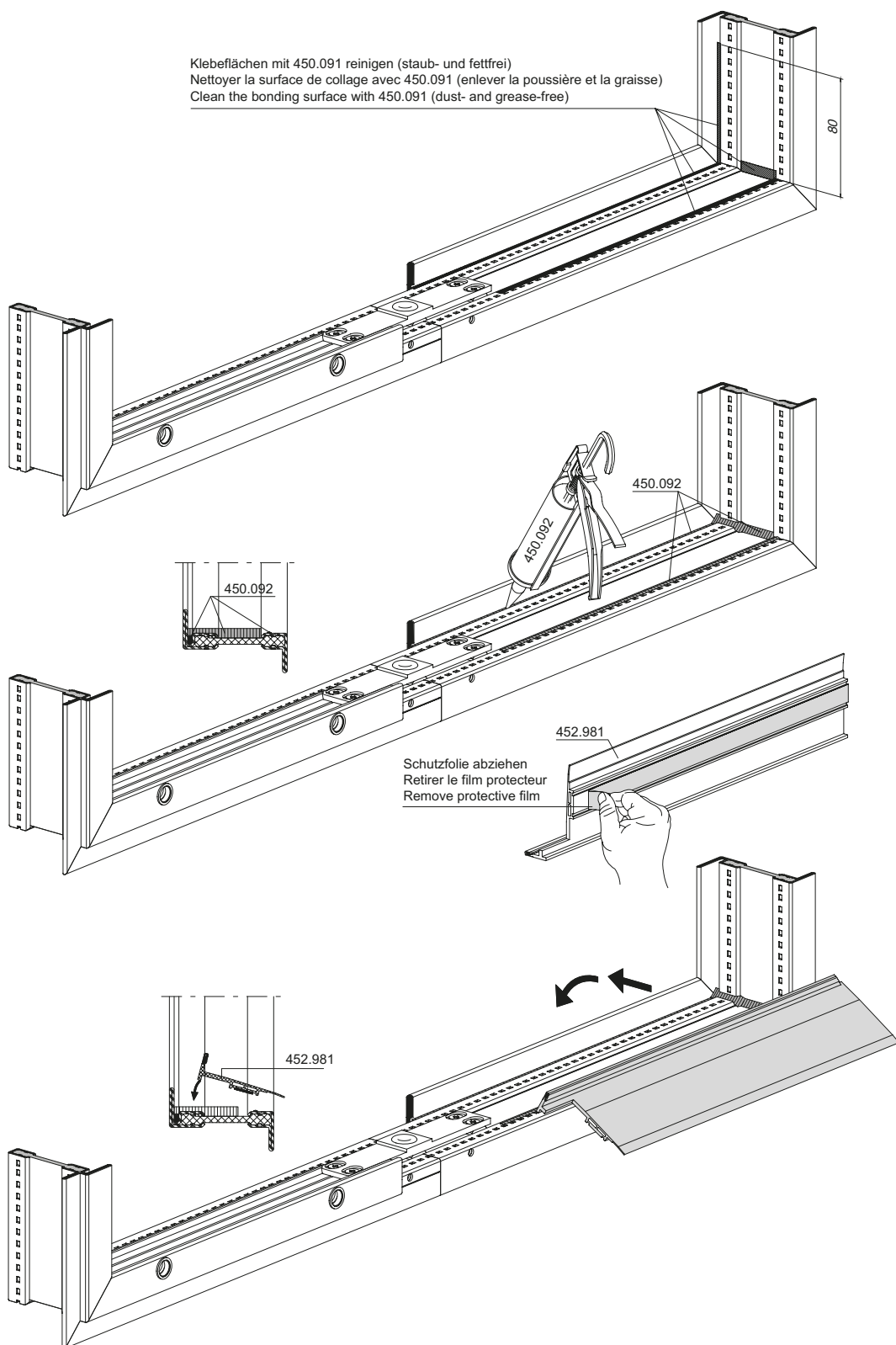
Installation
Drainage profile 452.984



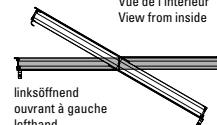
Einbau
Entwässerungsprofil 452.981

Montage
Profilé de drainage 452.981

Installation
Drainage profile 452.981



Ansicht von innen
 Vue de l'intérieur
 View from inside

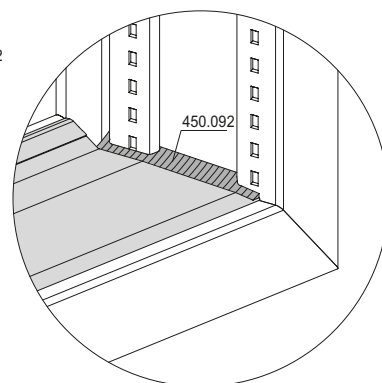
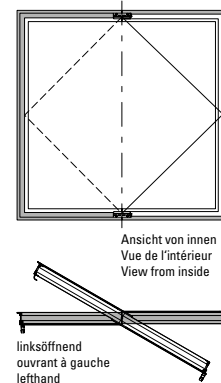
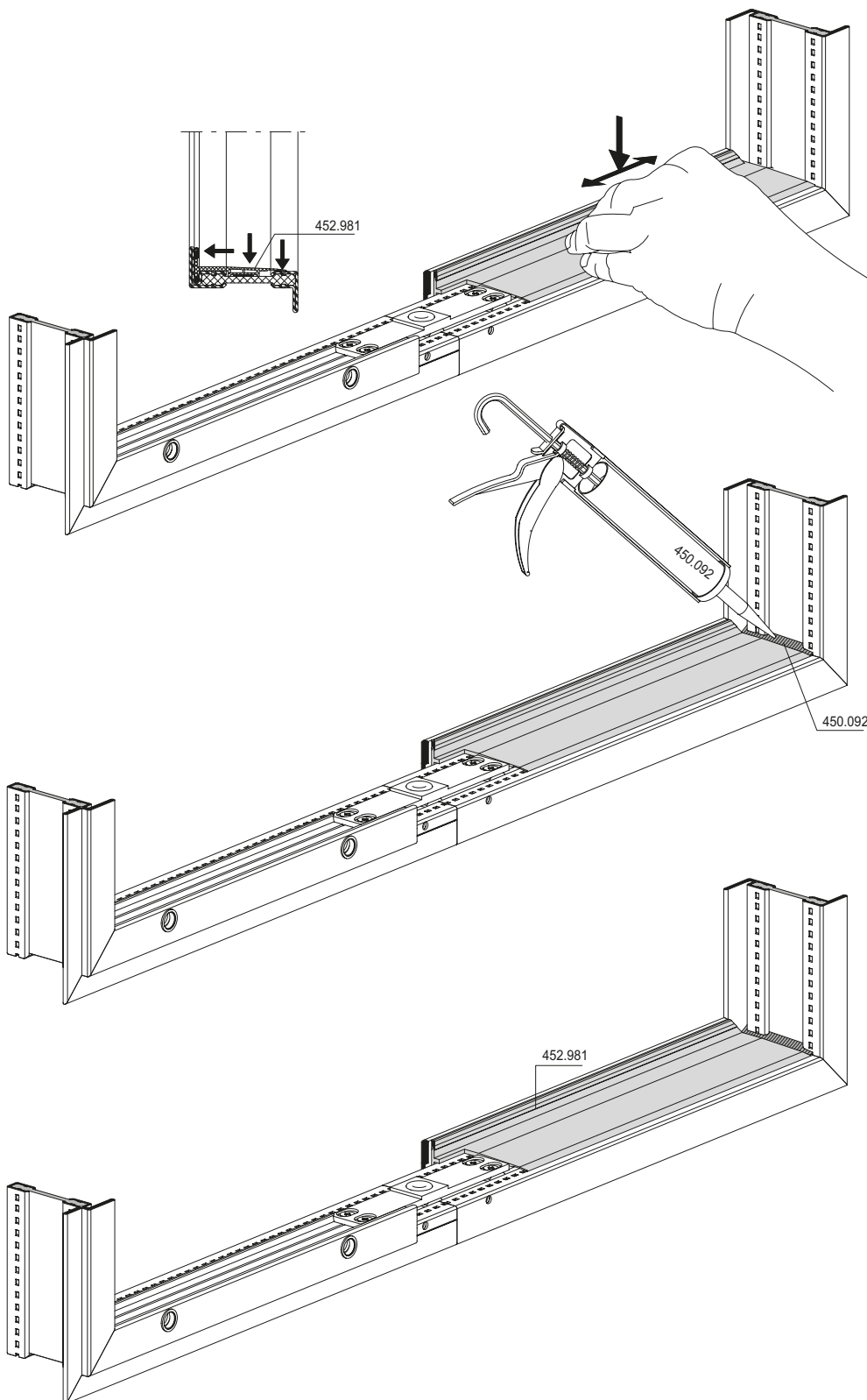


linksöffnend
 ouvrant à gauche
 left-hand

Einbau
Entwässerungsprofil 452.981

Montage
Profilé de drainage 452.981

Installation
Drainage profile 452.981

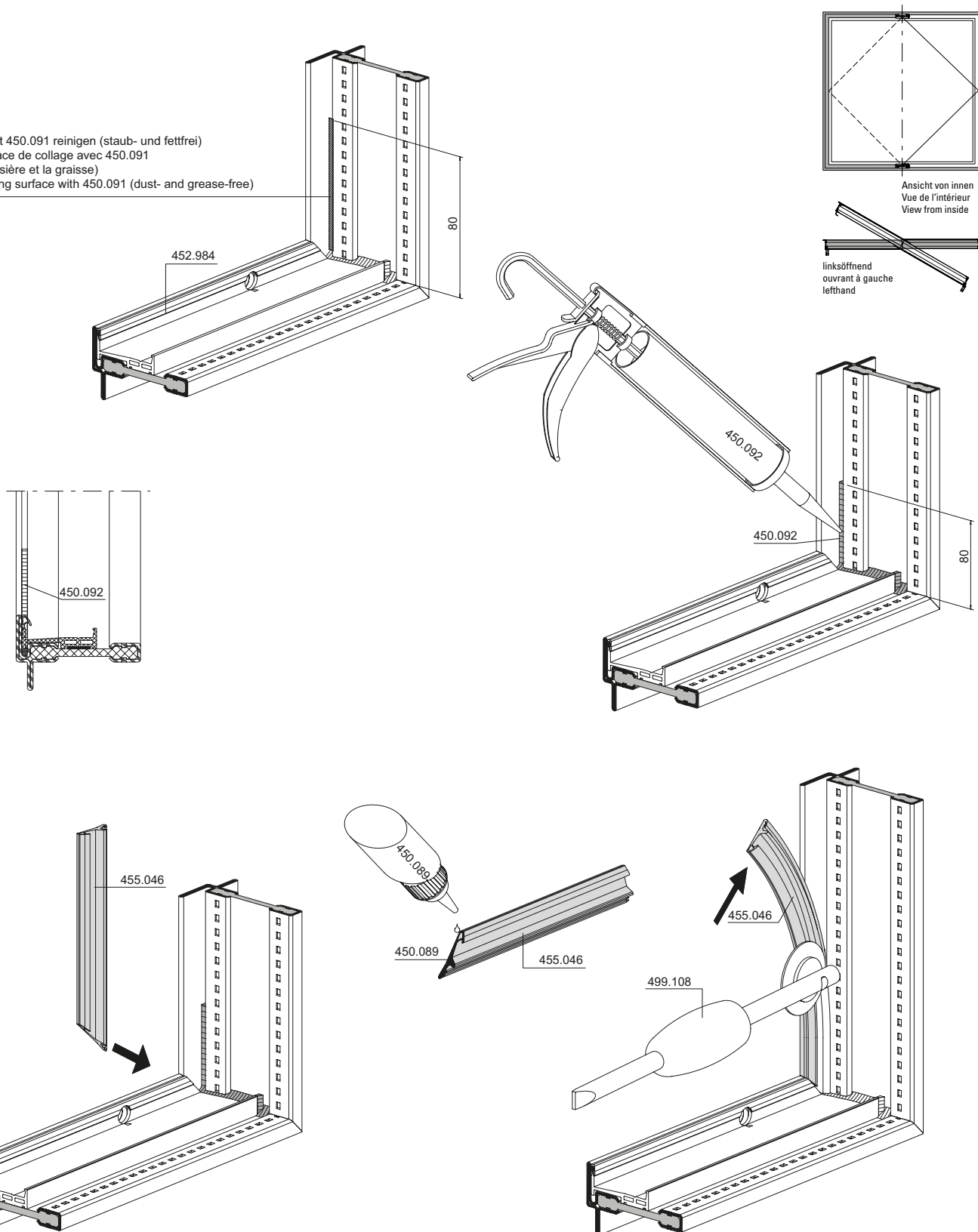


Einbau
Anschlagdichtung 455.046
(Fenster nach innen öffnend)

Montage
Joint de butée 455.046
(Fenêtre ouvrant vers l'intérieur)

Installation
Rebate weatherstrip 455.046
(Inward opening window)

Klebeflächen mit 450.091 reinigen (staub- und fettfrei)
 Nettoyer la surface de collage avec 450.091
 (enlever la poussière et la graisse)
 Clean the bonding surface with 450.091 (dust- and grease-free)

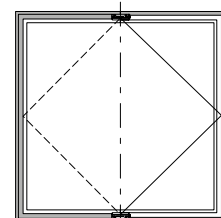
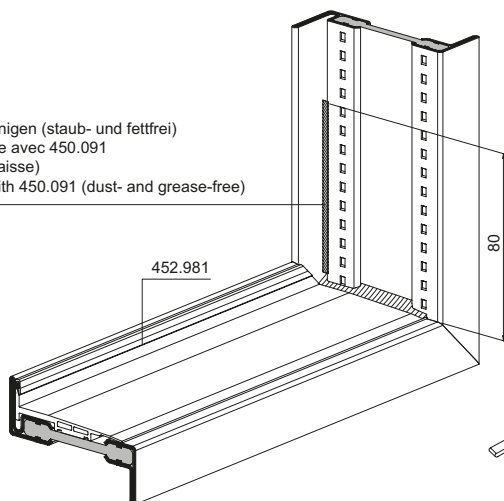


Einbau
Anschlagdichtung 455.046
(Fenster nach aussen öffnend)

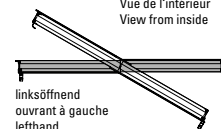
Montage
Joint de butée 455.046
(Fenêtre ouvrant vers l'extérieur)

Installation
Rebate weatherstrip 455.046
(Outward opening window)

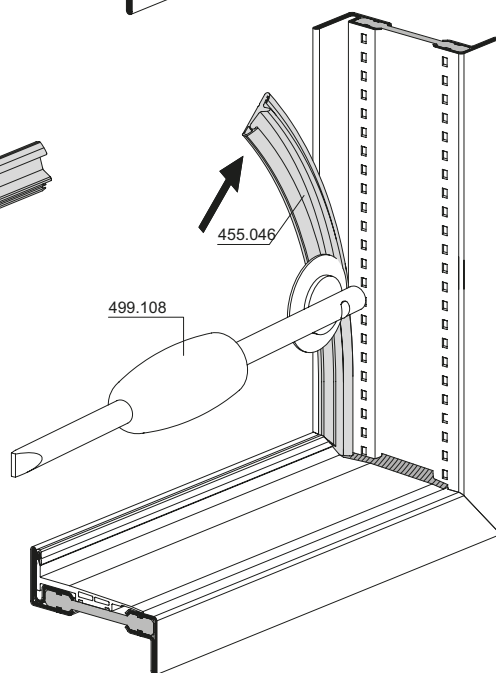
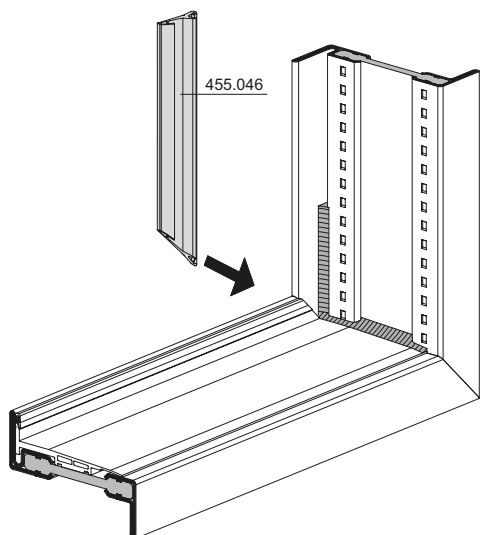
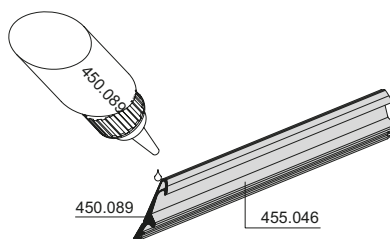
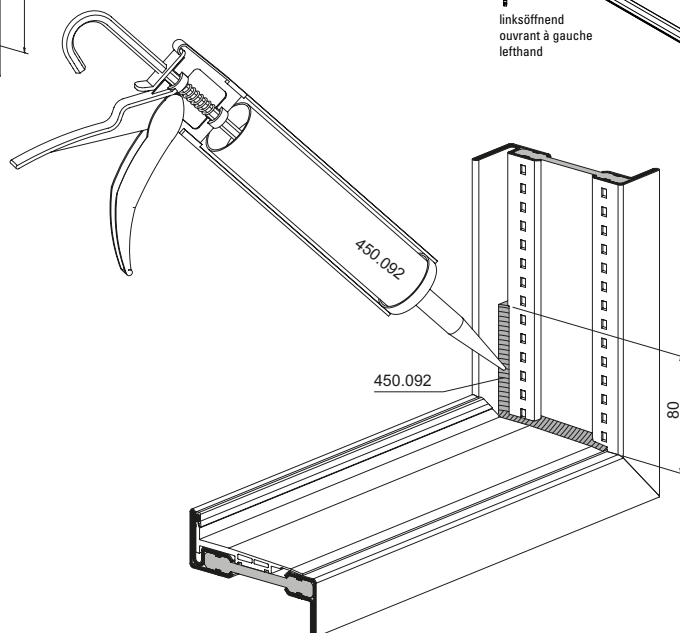
Klebeflächen mit 450.091 reinigen (staub- und fettfrei)
 Nettoyer la surface de collage avec 450.091
 (enlever la poussière et la graisse)
 Clean the bonding surface with 450.091 (dust- and grease-free)



Ansicht von innen
 Vue de l'intérieur
 View from inside



linksöffnend
 ouvrant à gauche
 left-hand



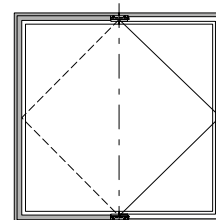
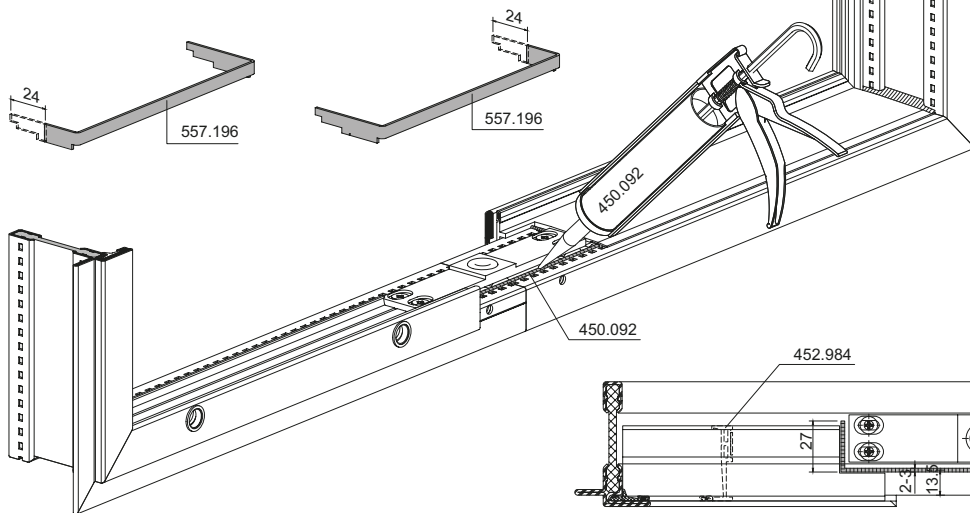
Einbau Abgrenzung 557.196

Montage délimitation 557.196

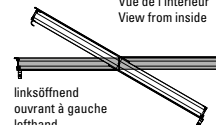
Installation of separator 557.196

Kürzen für linksöffnend
 Raccourcir pour l'ouverture vers la gauche
 Shorten for opening to the left

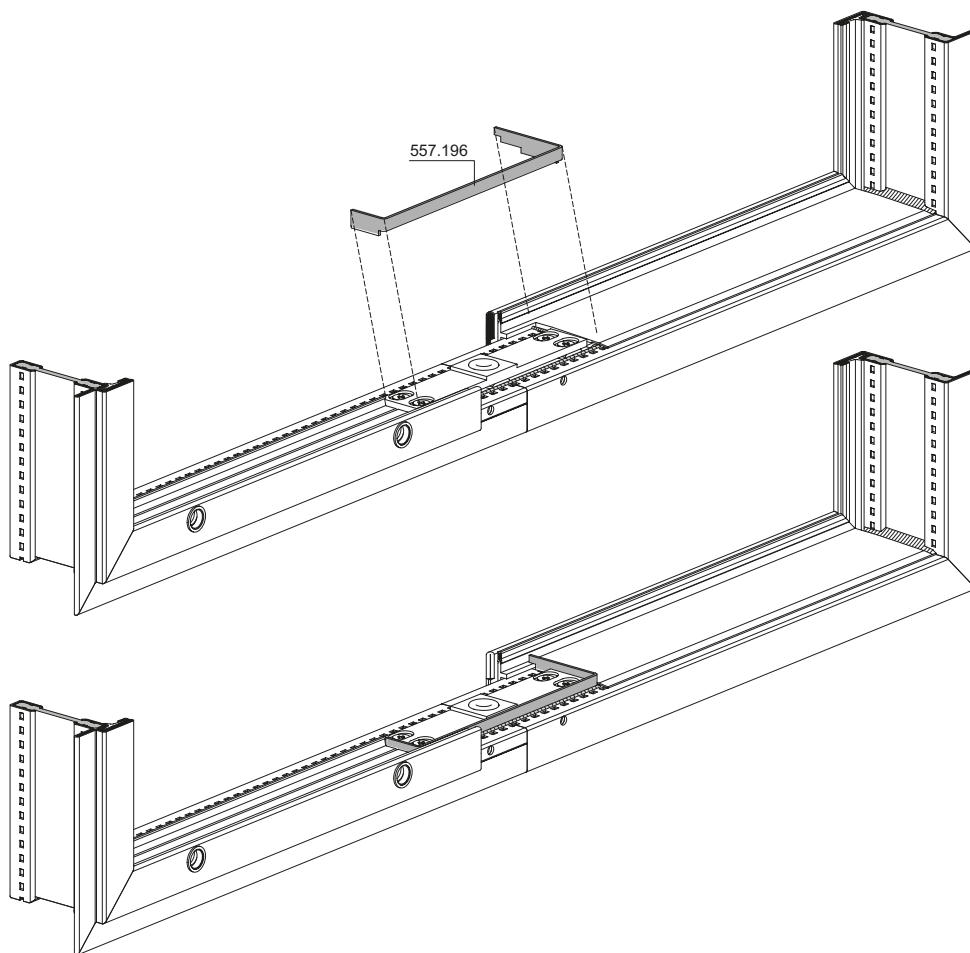
Kürzen für rechtsöffnend
 Raccourcir pour l'ouverture vers la droite
 Shorten for opening to the right



Ansicht von innen
 Vue de l'intérieur
 View from inside



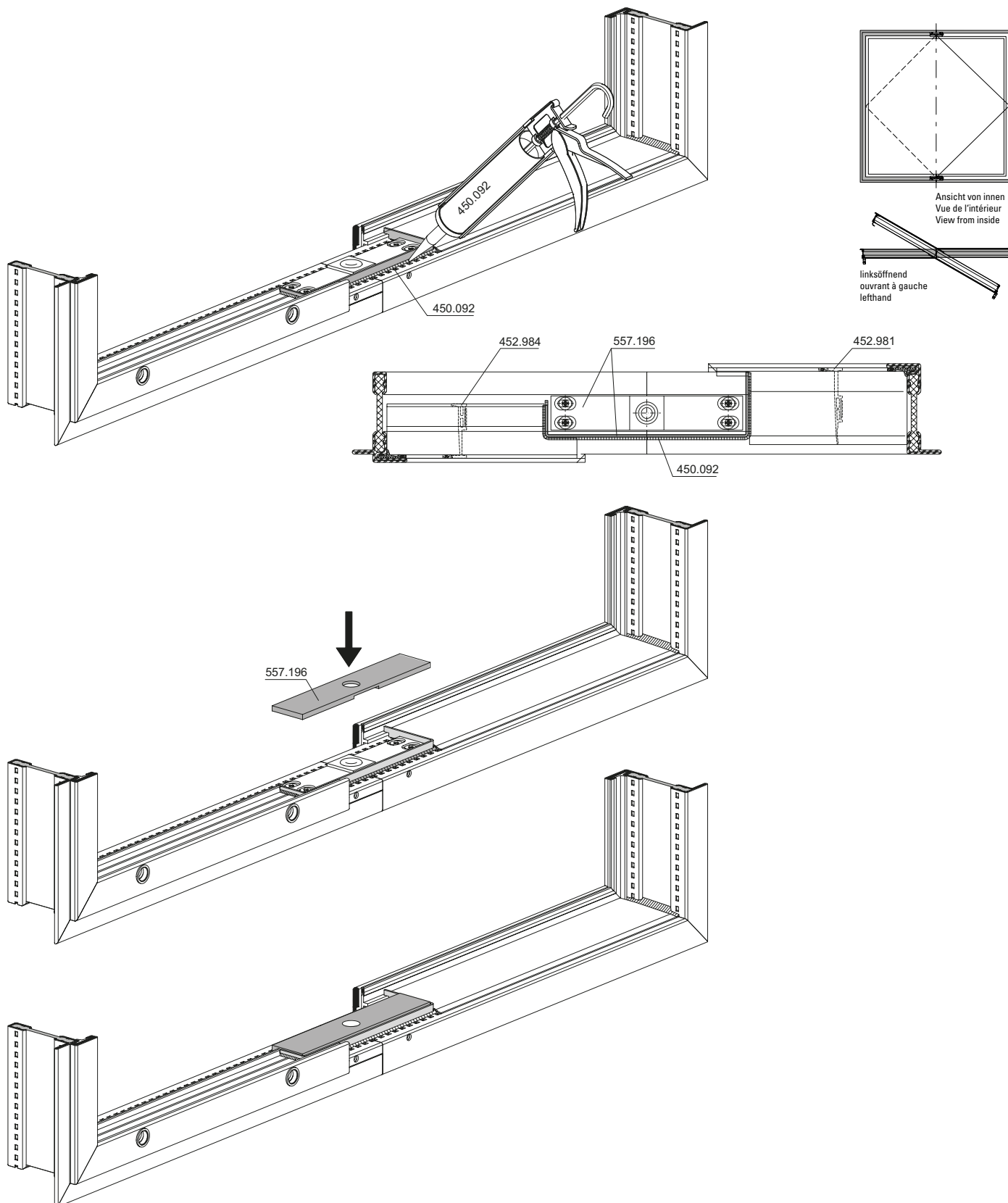
linksöffnend
 ouvrant à gauche
 lefthand



Einbau Abgrenzung 557.196

Montage délimitation 557.196

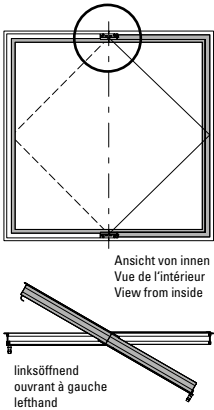
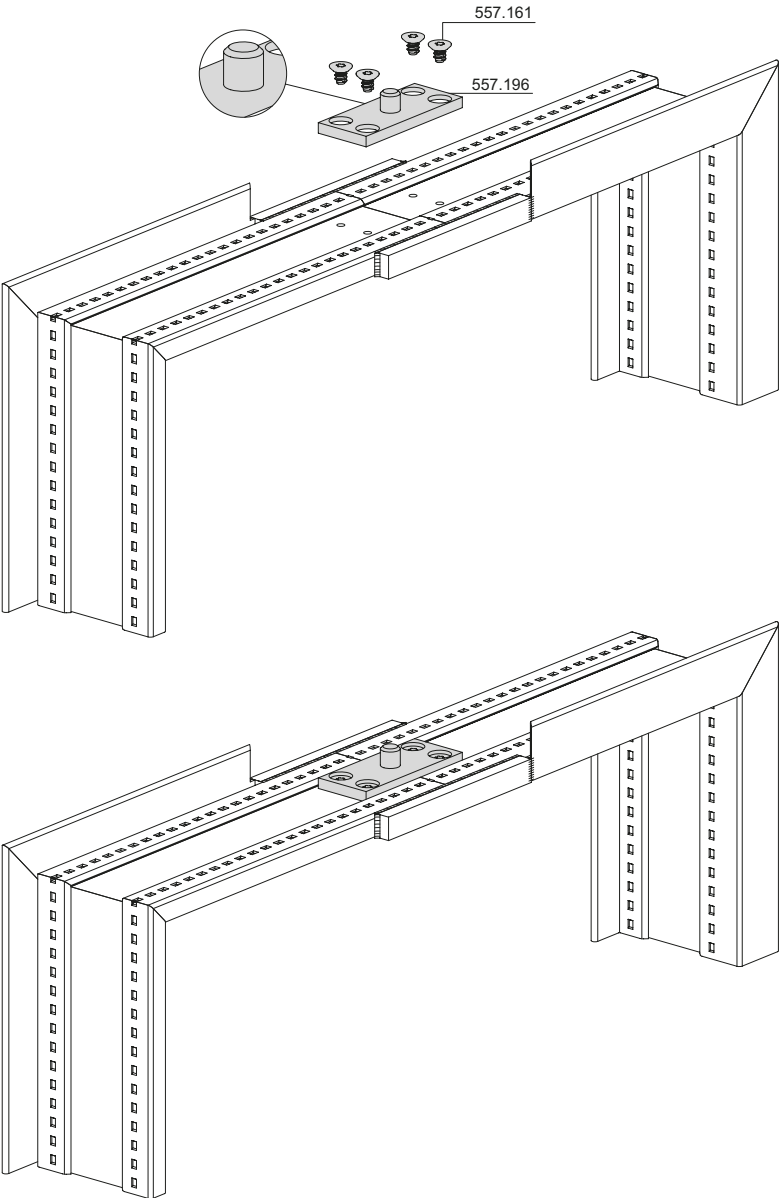
Installation of separator 557.196



Einbau Wendelager 557.196
oben

Montage pivot 557.196
en haut

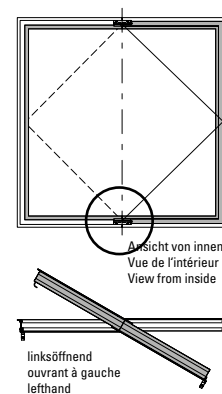
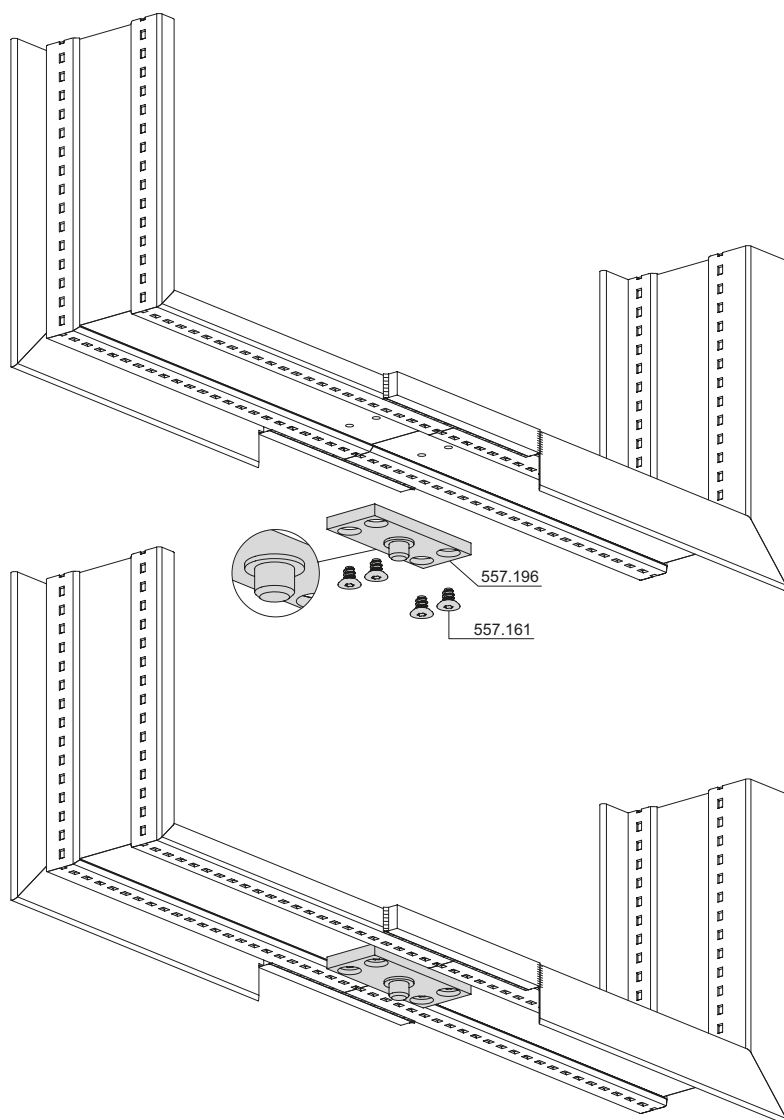
Installation of top
pivot bearing 557.196



Einbau Wendelager 557.196
unten

Montage pivot 557.196
en bas

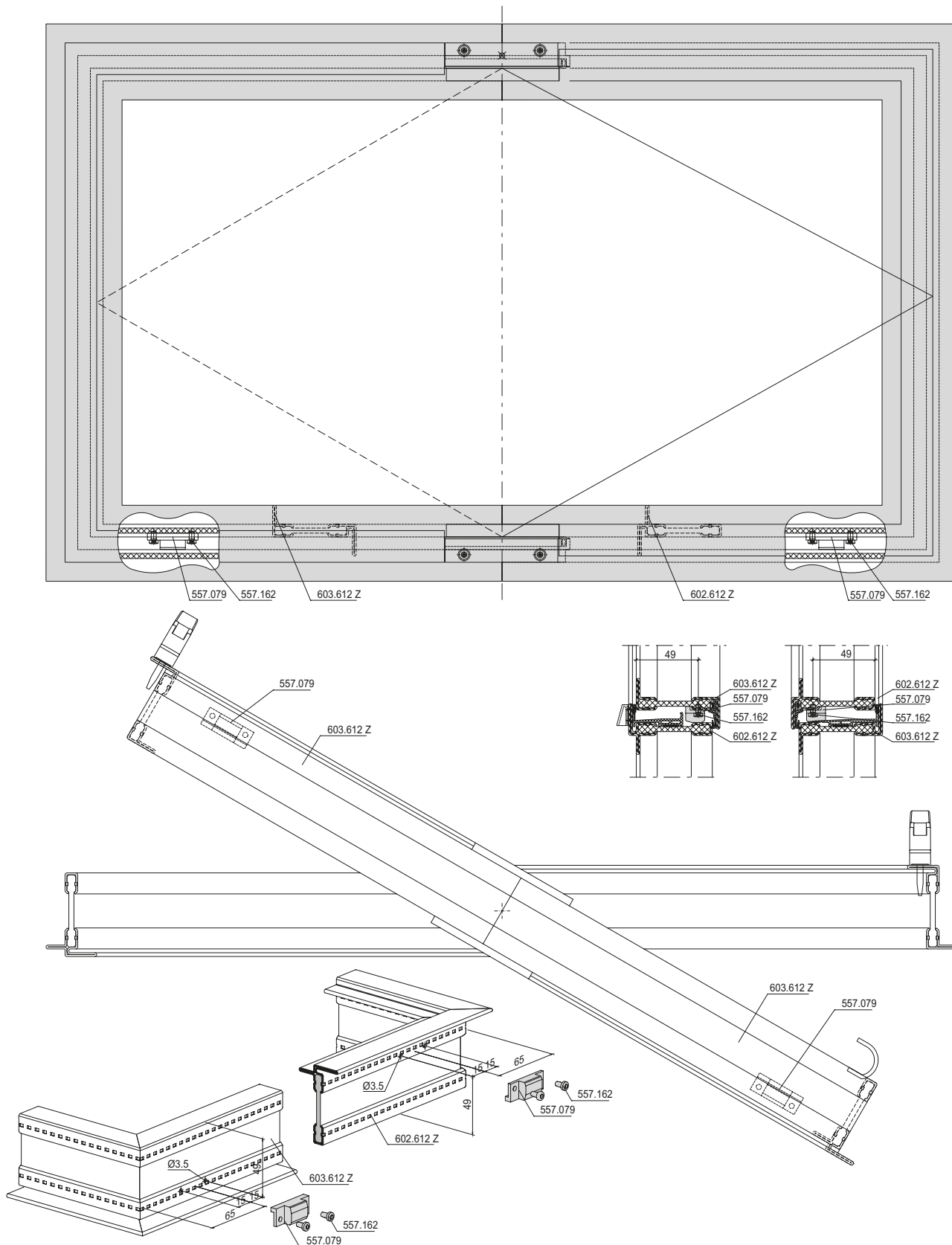
Installation of bottom
pivot bearing 557.196



Montage Auflaufbock 557.079

Montage bloc d'arrêt 557.079

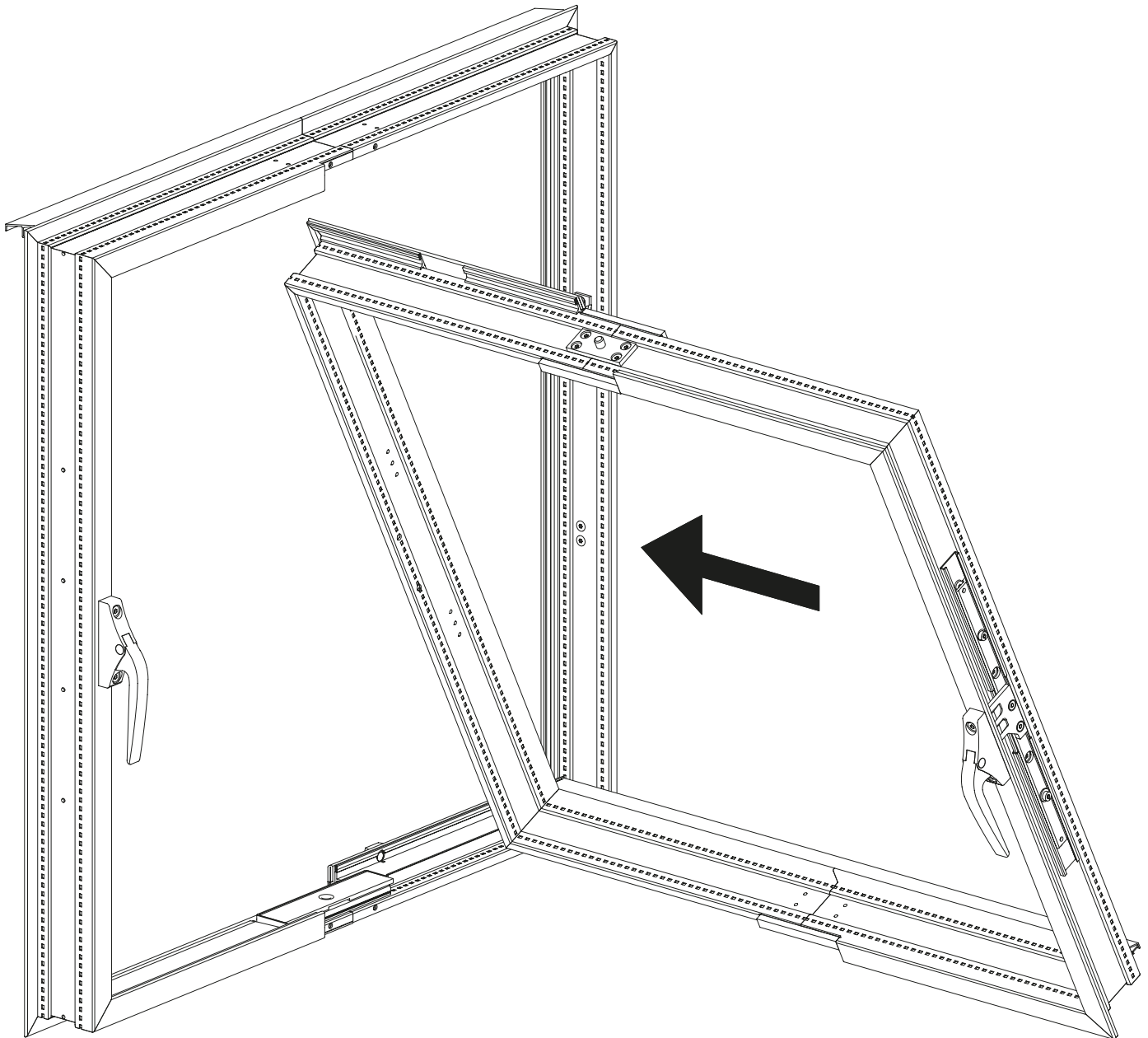
Installation engagement block
557.079



Montage Wendefenster

Montage fenêtre pivotante

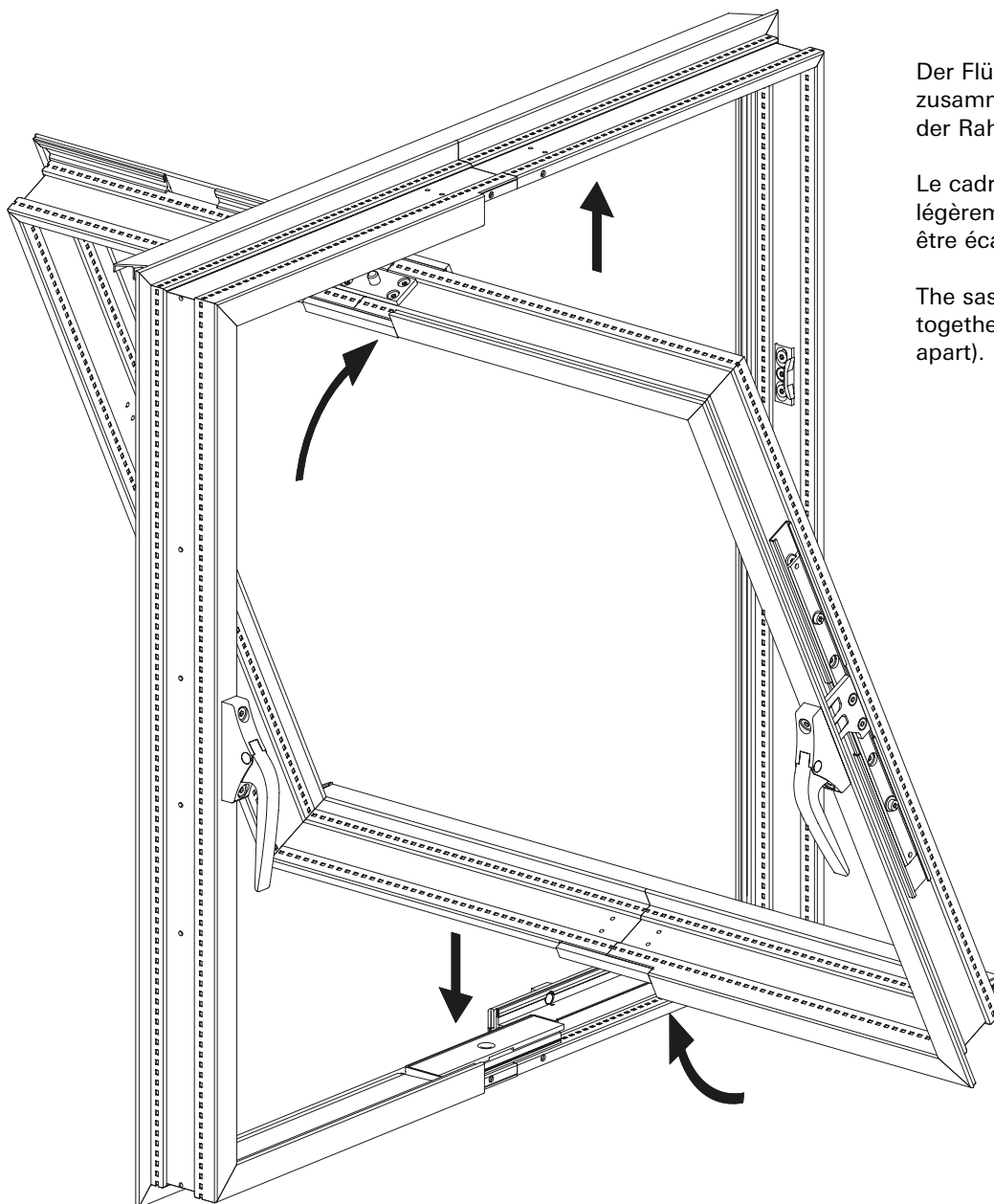
Installation of vertical pivot window



Montage Wendefenster

Montage fenêtre pivotante

Installation of vertical pivot window



Der Flügelrahmen muss leicht zusammen gedrückt werden (oder der Rahmen auseinander).

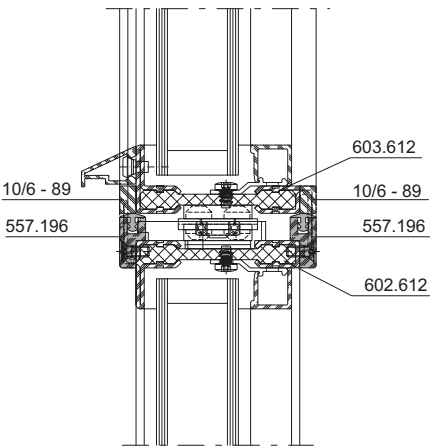
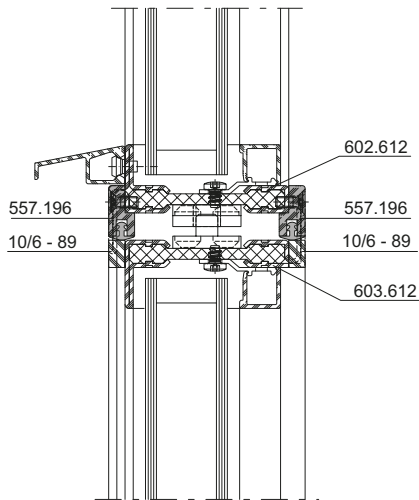
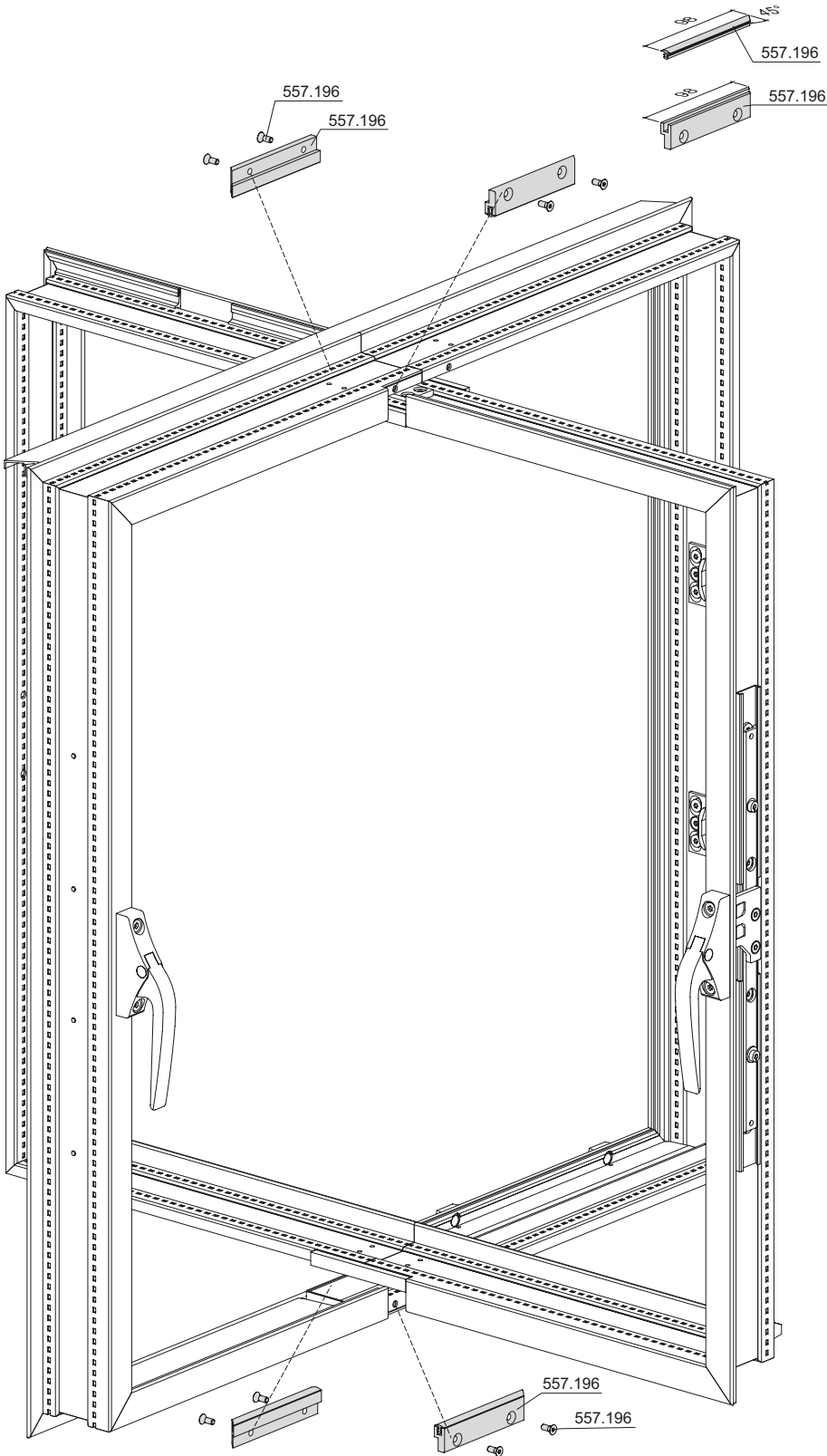
Le cadre de vantail doit être légèrement comprimé (ou le cadre être écarté).

The sash frame must be gently pressed together (or the outer frame pulled apart).

Einbau Ausgleichsteile

Montage pièces de compensation

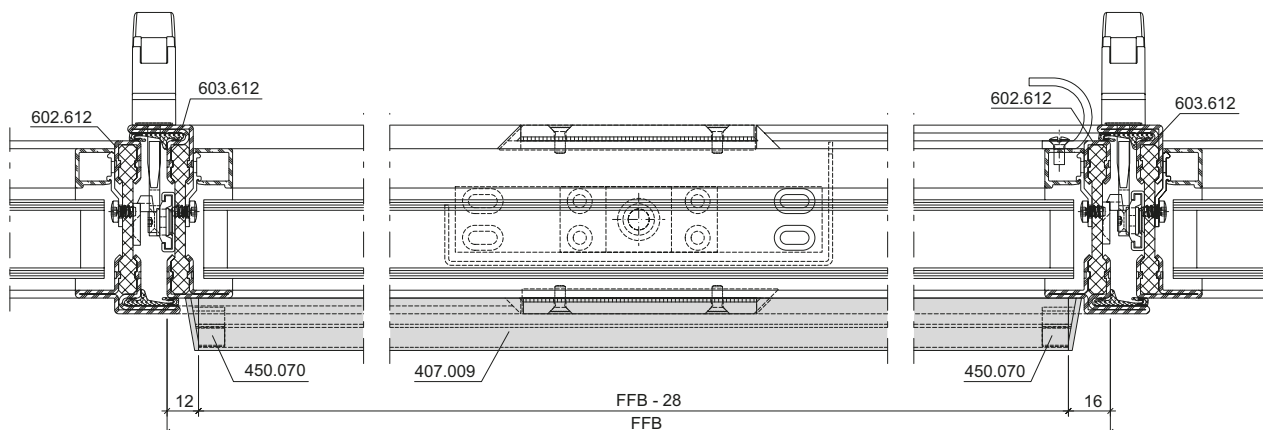
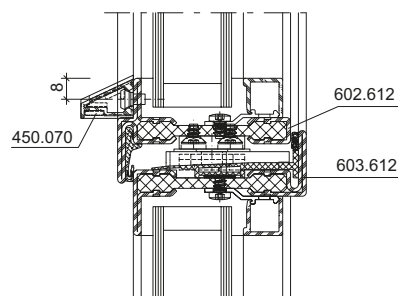
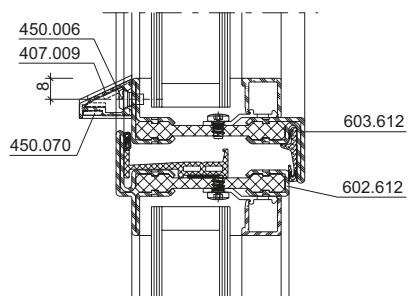
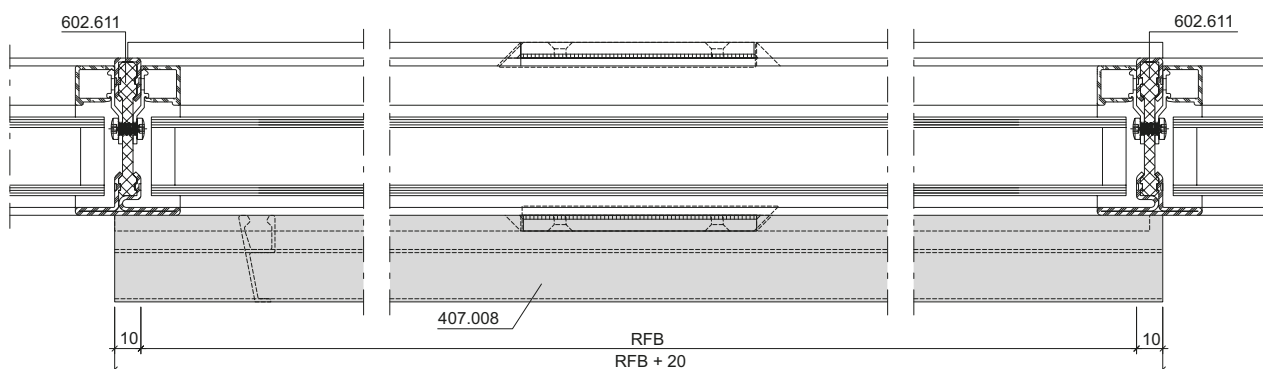
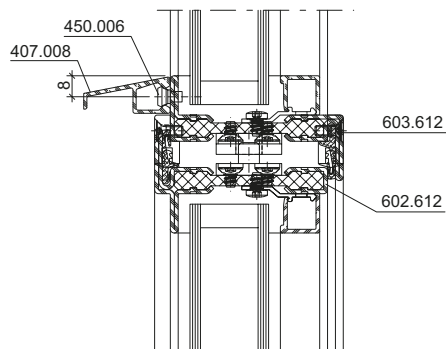
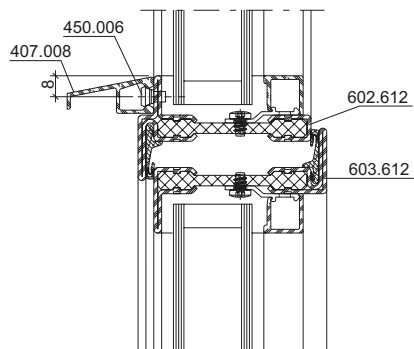
Installation of balancing
components



Einbau Wetterschenkel
407.008/407.009
(Flügel nach innen öffnend)

Montage renvoi d'eau
407.008/407.009
(Vantail ouvrant vers l'intérieur)

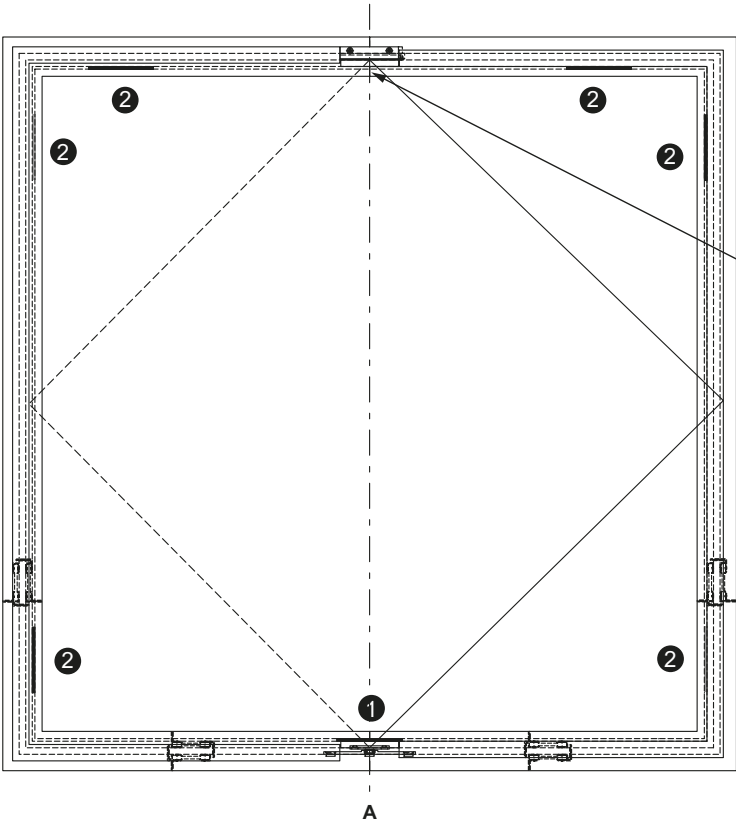
Installation weatherbar
407.008/407.009
(Inward-opening sash)



Verklotzen der Fenster
gemäss Empfehlung DIN EN 12488

Calage des fenêtres selon
recommandation DIN EN 12488

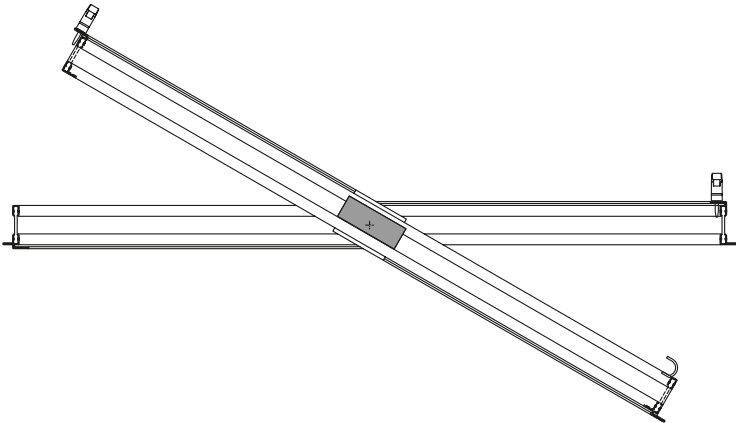
Glazing blocks of the windows
according to DIN EN 12488
recommendation



Mit Distanzklotzen (2)
im Bereich der Schwinglager
das Flügelprofil genau ausrichten.

Aligner avec précision le profilé de
vantail à l'aide de cales d'écartement (2)
dans la zone des compas basculants.

Use spacer blocks (2) to precisely
align the sash profile in the area of
the horizontal pivot.



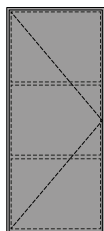
1 Tragklotz
Cale d'assise
Support block

2 Distanzklotz
Cale d'écartement
Spacer block

A
Distanzklotz im Flügel und Rahmen
für direkte Kraftableitung.

Cale d'écartement dans le vantail
et le cadre, pour une transmission
directe de la force.

Spacer block in vent and frame
for direct load deflection.

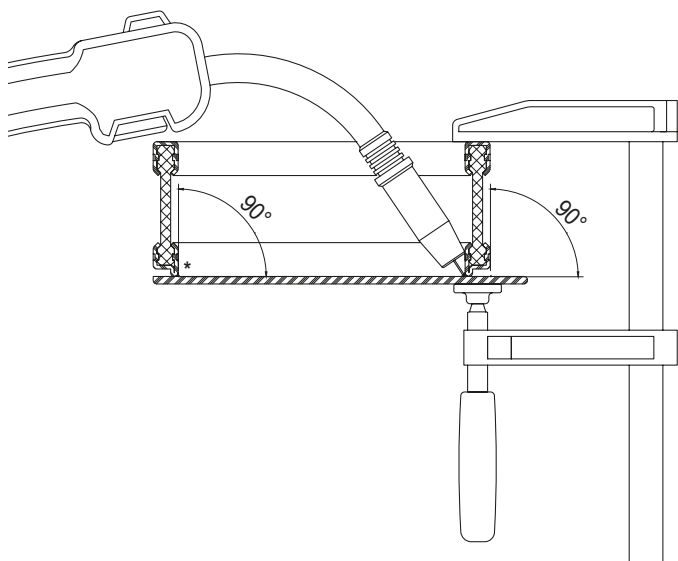
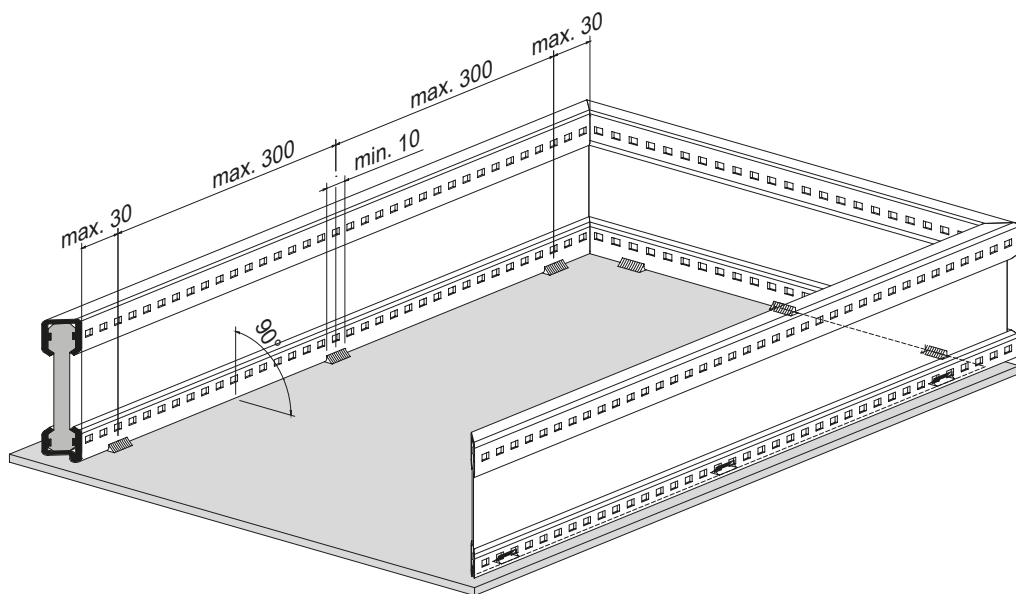


Verblechte Ausführung	Exécution tôlée	Sheet metal-clad design	
Zusammenbau verblechter Blendrahmen	Assemblage de cadres dormants tôlés	Assembly of sheet metal clad outer frames	412
Verschweissen der Eckpunkte bei verblechten Blendrahmen	Soudage des angles sur les cadres dormants tôlés	Welding of corner points for sheet metal clad outer frames	413
Ausbildung verblechter Sockel	Formations de socles tôlés	Formation of sheet metal clad sill	414
Ausbildung verblechter Flügel	Formations de vantail tôlés	Formation of sheet metal clad leaf	415
Zusammenbau verblechter Flügel	Assemblage de vantail tôlés	Assembling of sheet metal clad leaf	416

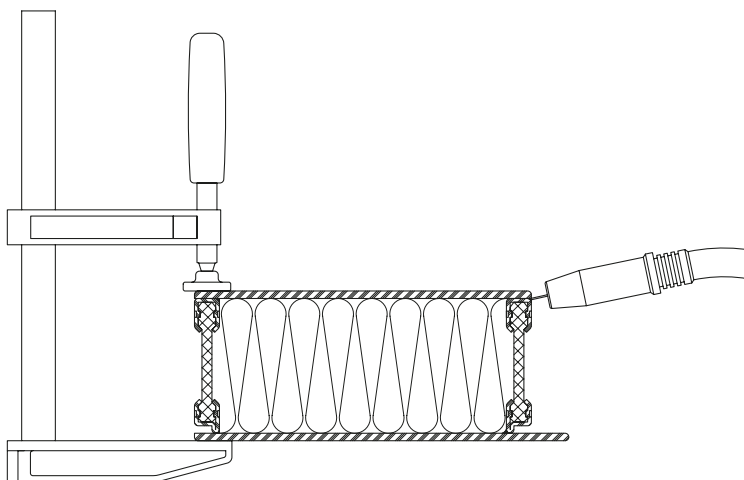
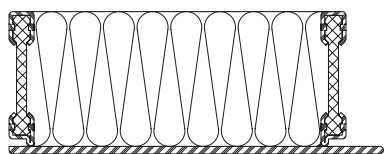
Zusammenbau
verblechter Blendrahmen

Assemblage de
cadres dormants tôlés

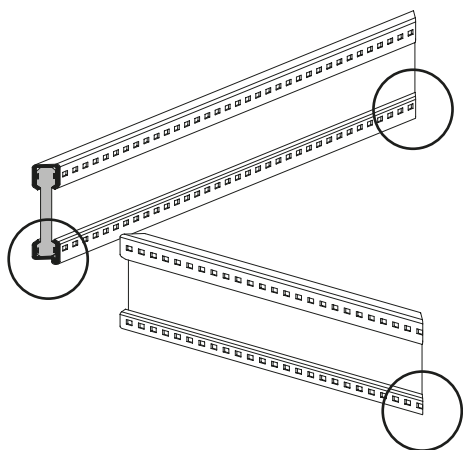
Assembly of
sheet metal clad outer frames



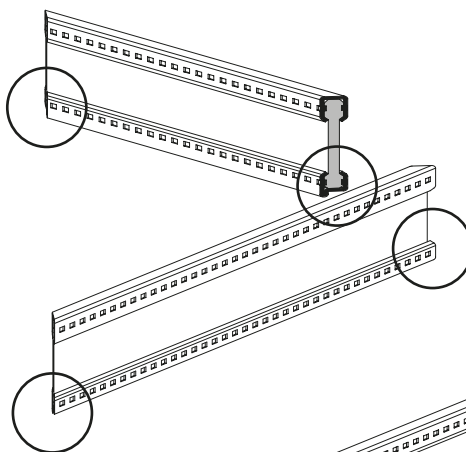
- * Umlaufend dampfdicht abdichten mit hitzebeständigem Silikon oder Abdichtband.
- * Étanchéifier contre la vapeur à l'aide d'un silicone résistant à la chaleur ou d'une bande d'étanchéité.
- * Seal with heat-resistant silicone or sealing tape all the way around until moisture-tight.



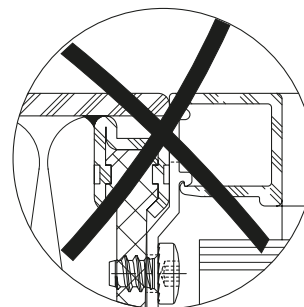
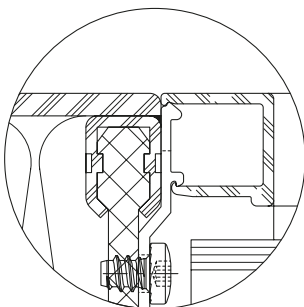
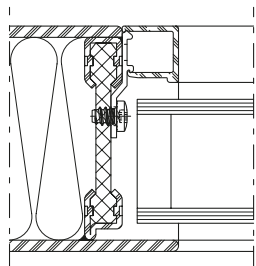
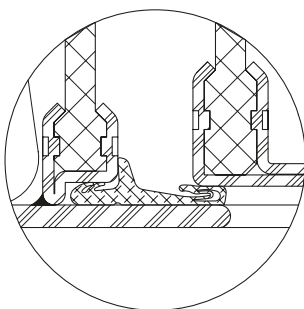
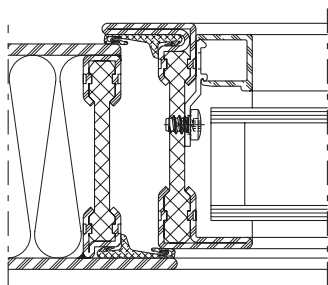
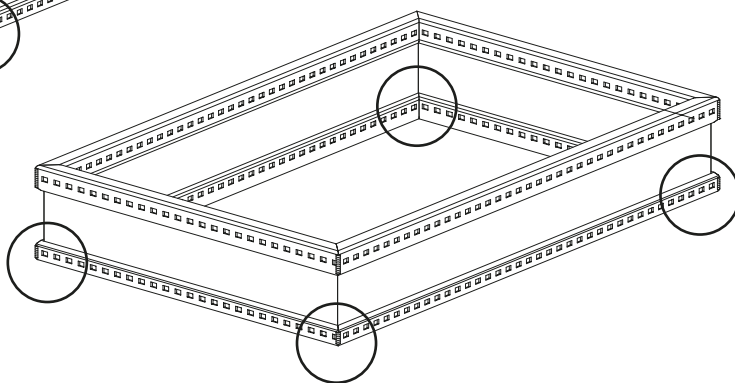
**Verschweissen der Eckpunkte
 bei verblechten Blendrahmen**



**Soudage des angles sur les
 cadres dormants tôlés**



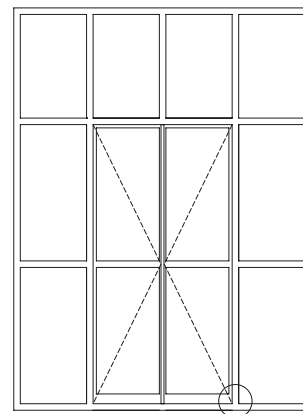
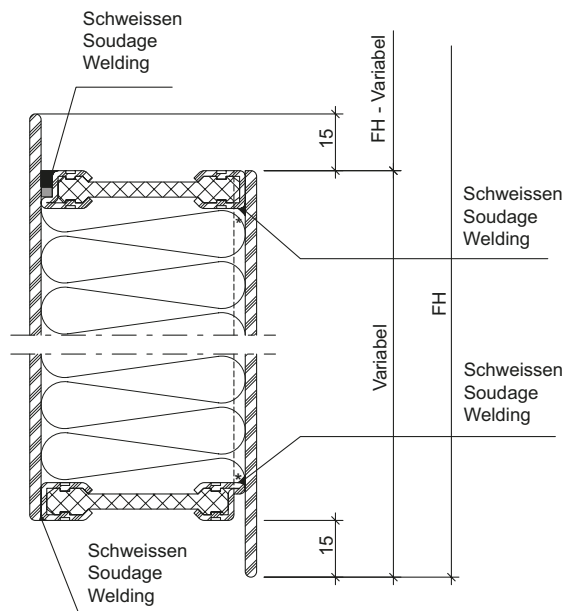
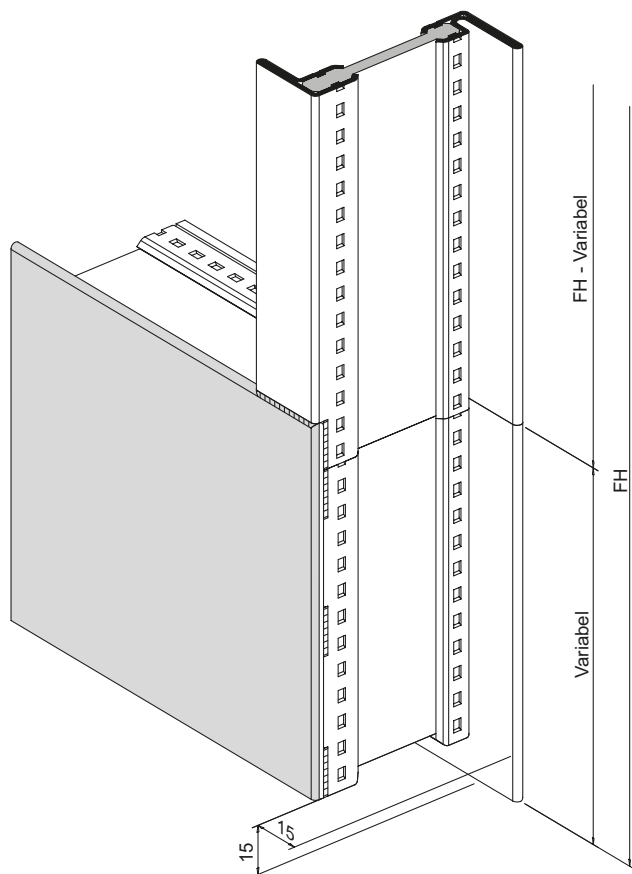
**Welding of corner points for
 sheet metal clad outer frames**



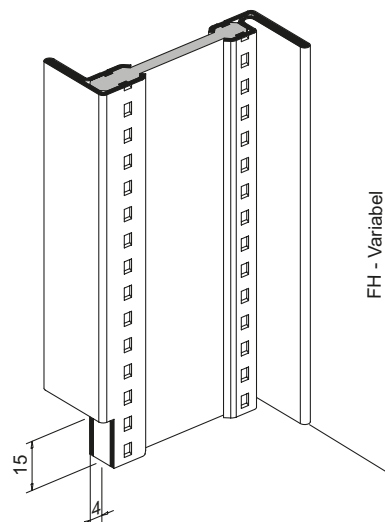
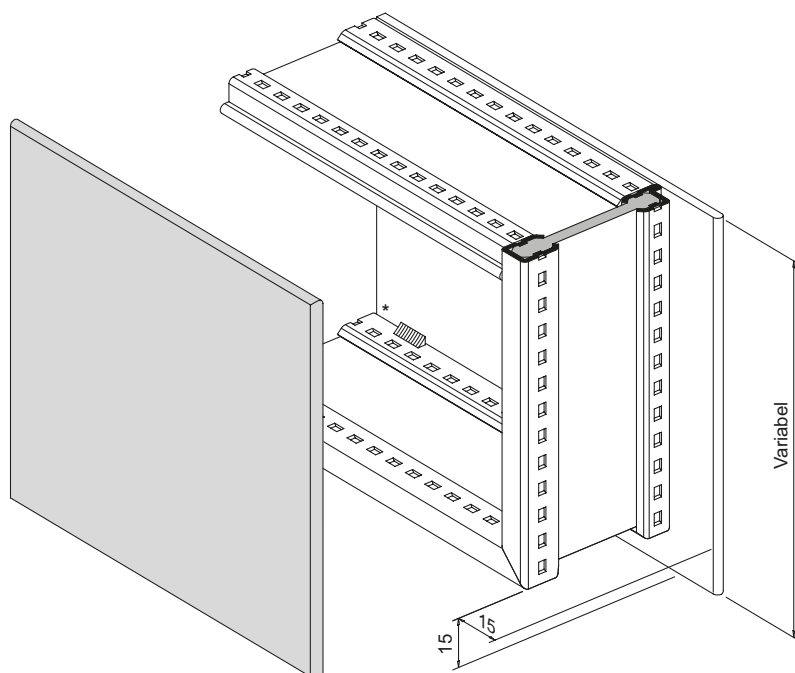
Ausbildung verblechter Sockel

Formations de socles tôlés

Formation of sheet metal clad sill



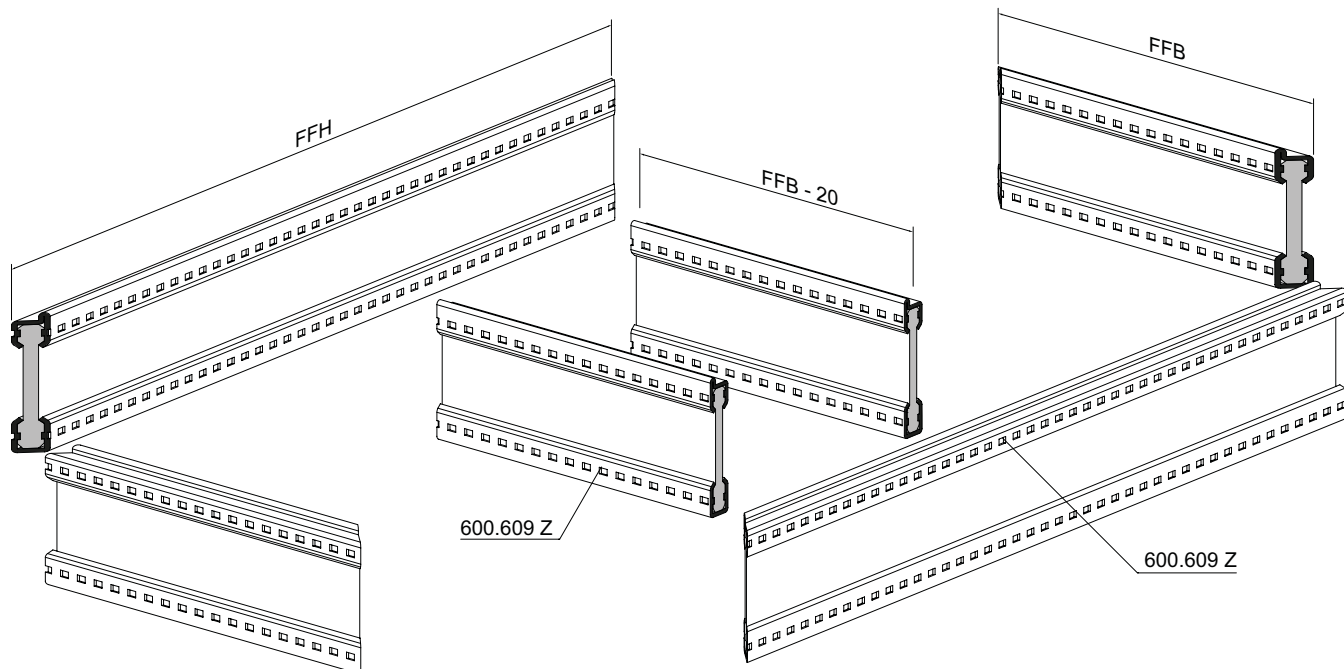
- * Umlaufend dampfdicht abdichten mit hitzebeständigem Silikon oder Abdichtband.
- * Étanchéifier contre la vapeur à l'aide d'un silicone résistant à la chaleur ou d'une bande d'étanchéité.
- * Seal with heat-resistant silicone or sealing tape all the way around until moisture-tight.



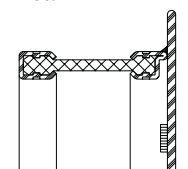
Ausbildung verblechter Flügel

Formations de vantail tôlés

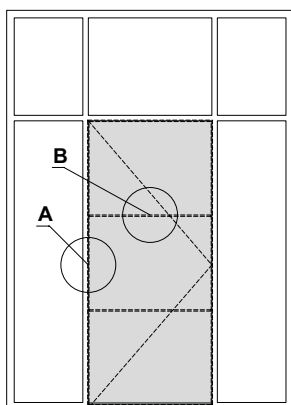
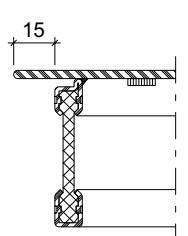
Formation of sheet metal cladleaf



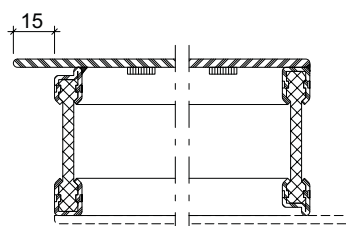
Detail B



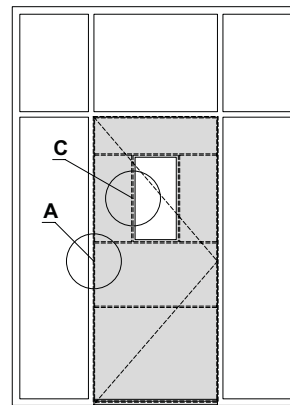
Detail A



Detail A



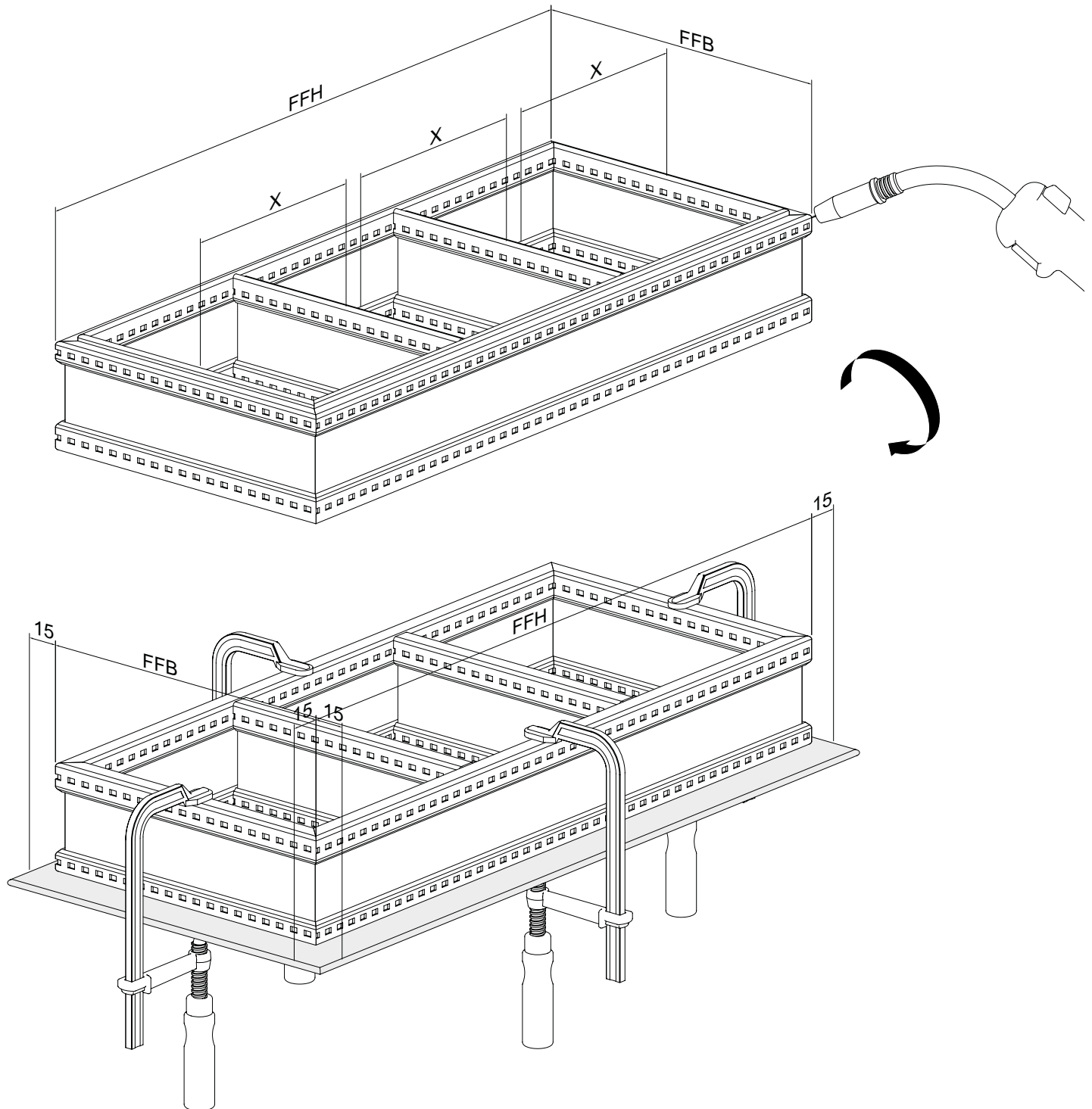
Detail C



Zusammenbau
verblechter Flügel

Assemblage de vantail tôlés

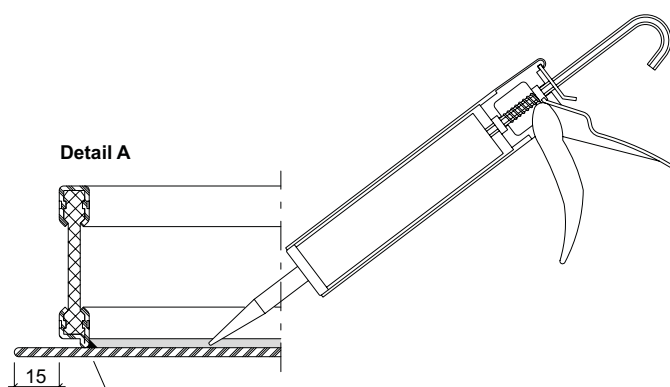
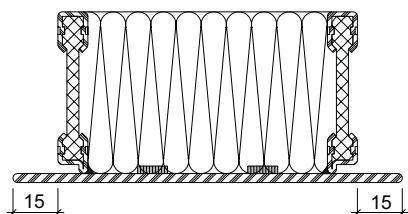
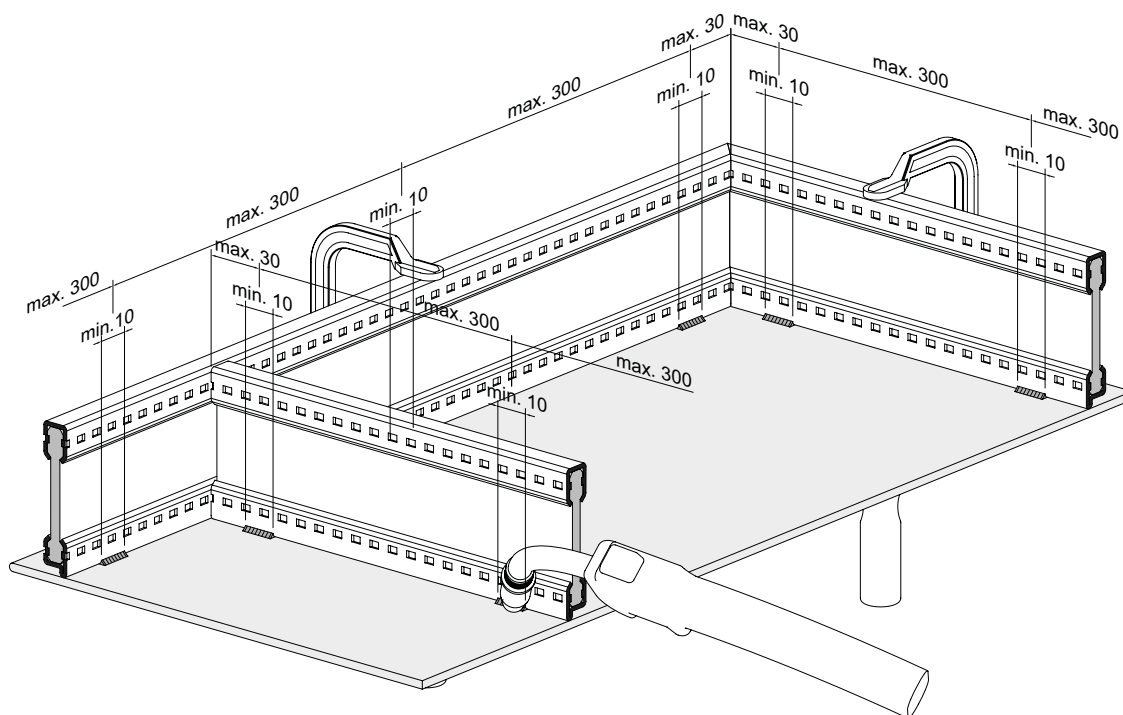
Assembling of sheet metal cladleaf



Zusammenbau
verblechter Flügel

Assemblage de vantail tôlés

Assembling of sheet metal cladleaf

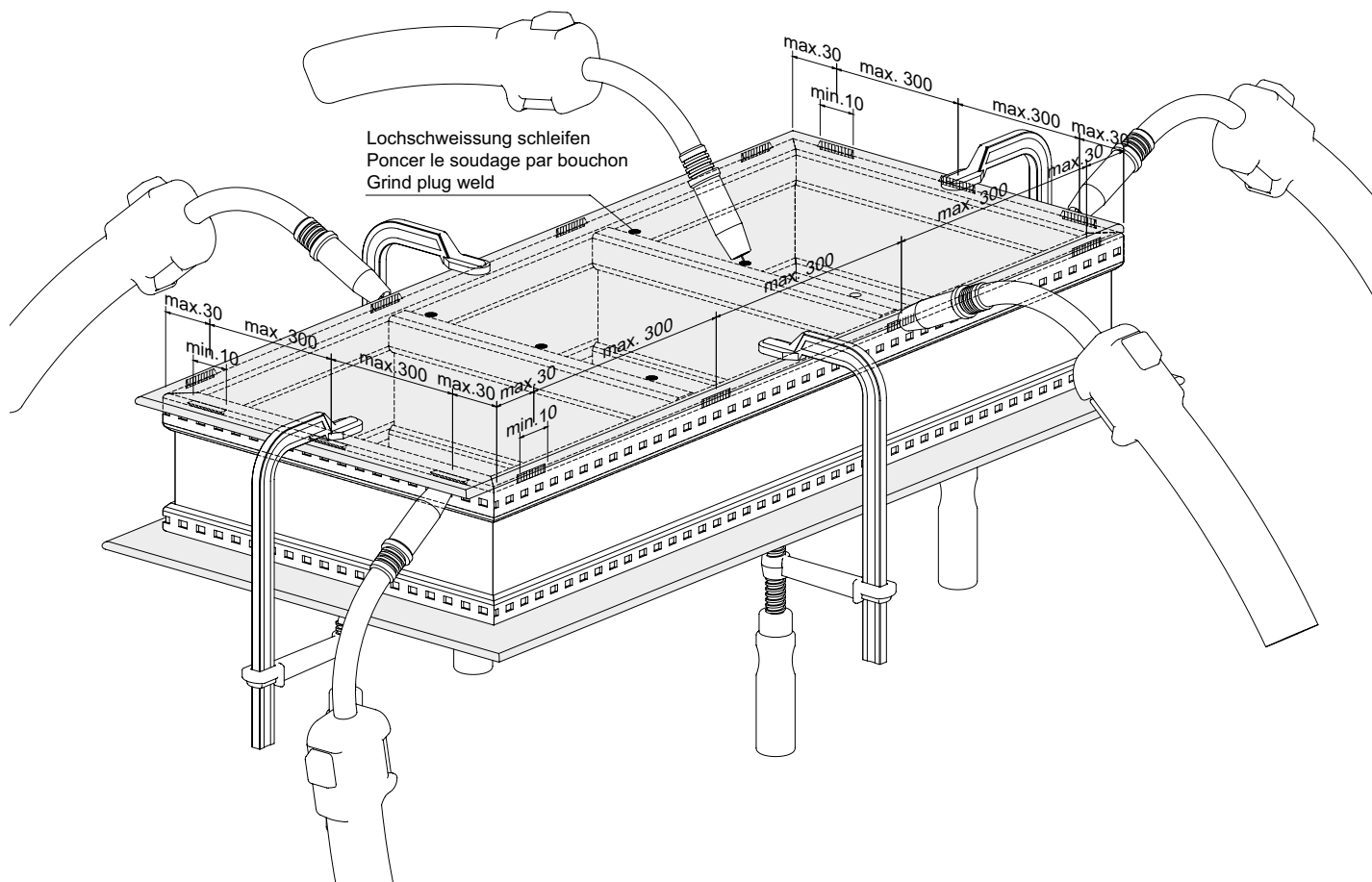
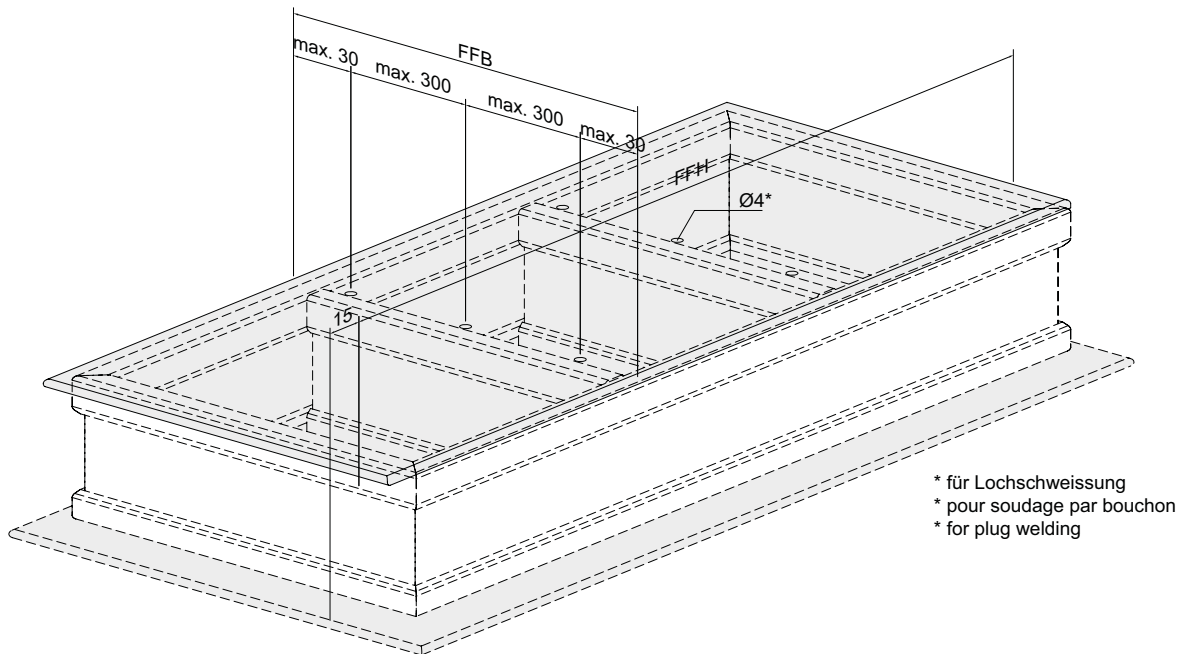


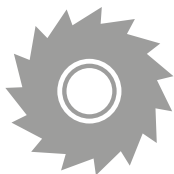
Umlaufend dampfdicht abdichten mit hitzebeständigem Silikon oder Abdichtband.
Étanchéifier contre la vapeur à l'aide d'un silicone résistant à la chaleur ou d'une bande d'étanchéité.
Seal with heat-resistant silicone or sealing tape all the way around until moisture-tight.

Zusammenbau
verblechter Flügel

Assemblage de vantail tôlés

Assembling of sheet metal cladleaf





Verarbeitungshinweise	Indications d'usage	Assembly instructions	
Oberflächenbehandlung	Traitement de surface	Surface treatment	421
Abdeckband 451.049	Bande de recouvrement 451.049	Cover tape 451.049	422
Aufhängung beim Beschichten	Suspension lors du revêtement	Hanging points for colour coating	423
Glasfalzbelüftung	Aération de feuillure	Glazing rebate ventilation	424
Entwässerungsprofil 452.984 (Fenster nach innen öffnend)	Profilé de drainage 452.984 (Fenêtre ouvrant vers l'intérieur)	Drainage profile 452.984 (Inward-opening window)	427
Anschlagdichtung 455.046 (Fenster nach innen öffnend)	Joint de butée 455.046 (Fenêtre ouvrant vers l'intérieur)	Rebate weatherstrip 455.046 (Inward-opening window)	431
Entwässerungstülle 450.115	Douille d'évacuation d'eau 450.115	Drain pipe 450.115	432
Entwässerungsprofil 452.984	Profilé de drainage 452.984	Drainage profile 452.984	434
Anschlagdichtung 455.046	Joint de butée 455.046	Rebate weatherstrip 455.046	437
Montage Flügeldichtung 455.046	Montage joint de vantail 450.046	Installation of sash weatherstrip 450.046	438
Dichtungs-Ausnehmung 455.046	Évidement pour le joint 455.046	Openings in the weatherstrip 455.046	441
Einbau Entwässerungsprofil 452.981	Montage profilé de drainage 452.981	Installation drainage profile 452.981	442
Anschlagdichtung 455.046 (Fenster nach aussen öffnend)	Joint de butée 455.046 (Fenêtre ouvrant vers l'extérieur)	Rebate weatherstrip 455.046 (Outward-opening window)	444
Montage Flügeldichtung 455.046	Montage joint de vantail 455.046	Installation of sash weatherstrip 455.046	445
Dichtungs-Ausnehmung 455.046	Évidement pour le joint 455.046	Openings in the weatherstrip 455.046	447
Glasfalzbelüftung Festverglasung	Ventilation feuillure de verre Vitrage fixe	Glazing rebate ventilation Fixed glazing	449
Alternative Belüftung mit 450.047 / 450.049 und 450.055	Ventilation alternative avec 450.047 / 450.049 et 450.055	Alternative ventilation with 450.047 / 450.049 and 450.055	458
Abdichtungen für Belüftung mit 450.047 / 450.049	Étanchéités pour ventilation avec 450.047 / 450.049	Ventilation seals with 450.047 / 450.049	459
Abdichtung bei nach oben liegender Dichtungsnute	Étanchéification quand la rainure d'étanchéité est orientée vers le haut	Sealing for upper weatherstrip grooves	462

Einbau Abdeckkappe 450.055	Montage du capuchon 450.055	Installation of cover cap 450.055	463
Einbau Wetterschenkel 407.009	Montage renvoi d'eau 407.009	Installation weatherbar 407.009	464
Abdeckband 451.057	Bande de recouvrement 451.057	Cover tape 451.057	467
Dämmprofil 450.104	Profilé isolant 450.104	Insulation profile 450.104	469
Dämmprofil 450.103	Profilé isolant 450.103	Insulation profile 450.103	470
Anordnung Dämmprofile 450.103 / 450.104	Disposition des profilés isolant 450.103 / 450.104	Arrangement of insulation profiles 450.103 / 450.104	471
Empfehlung Anordnung Befestigungspunkte Janisol Arte 2.0	Recommandation de disposition Points de fixation Janisol Arte 2.0	Arrangement recommendation Janisol Arte 2.0 fixing points	472
Empfehlung Anordnung Befestigungspunkte Janisol Arte Fenstertüre	Recommandation de disposition Points de fixation porte-fenêtre Janisol Arte	Arrangement recommendation Fixing points for Janisol Arte window doors	473
Befestigungsvarianten	Variantes de fixation	Fixing variants	474
Verklotzen der Fenster gemäss Empfehlung DIN EN 12488	Calage des fenêtres selon recommandation DIN EN 12488	Glazing blocks of the windows according to DIN EN 12488 recommendation	475
Glaseinbau	Pose des verres	Glazing	476
Befestigungsknöpfe Aluminium-Glasleisten	Boutons de fixation Parcloses en aluminium	Fixing studs Aluminium glazing beads	482
Einbau Glasleisten-Befestigungsknöpfe	Montage boutons de fixation	Installation fastening studs	488
Renoseal - dauerelastischer Dichtstoff für Verglasungen	Renoseal - produit d'étanchéité à l'élasticité permanente pour les vitrages	Renoseal – permanently elastic sealing compound for glazing	503
Optionale Wetterschenkel	Renvois d'eau en option	Optional drip bar	505
Atelierfenster	Fenêtre trapézoïdale	Studio window	506
Bogenfenster	Fenêtres cintrée	Arched windows	507
Allgemeine Angaben über wetterfeste Stähle Corten	Informations générales sur les aciers patinables Corten	General information on weathering steels Corten	509

Oberflächenbehandlung

Janisol Arte-Profile können grundsätzlich wie die bewährten Janisol-Profile oberflächenbehandelt werden. Janisol Arte-Profile können sowohl einbrennlackiert als auch pulverbeschichtet werden. Objekttemperatur bis max. 180°C.

Der schwarze Kunststoff-Isolator aus glasfaserverstärktem Polyurethan ist nicht pulverbeschichtungsfähig resp. nimmt die Farbe nicht gleichmässig an. Je nach Farbwahl resp. ästhetischen Ansprüchen empfehlen wir bei Fensterflügeln, den Isolator im sichtbaren Bereich vor dem Pulverbeschichten mit einem hitzebeständigen Abdeckband (451.049) oder nachträglich mit schwarzem Abdeckband 451.057 abzudecken.

Anforderungen

Die Anforderungen an die Oberflächenbehandlung ist in der DIN EN ISO 12944-2 in sechs Korrosivitätskategorien unterteilt. Für die Aussen- und Innenanwendung ist mindestens die Kategorie «C3 mässig» massgebend. Die Schutzdauer ist mindestens mit 5-15 Jahren anzunehmen.

Empfehlung

(gemäss DIN EN ISO 12944-2)

Korrosivitätskategorie: C3

Schutzdauer: mittel (M) 5-15 Jahre

Vorbehandlung, Beschichtungssystem

Als Grundlage für die Ausführung der Oberflächenbehandlung dienen die Ausführungen in der DIN EN ISO 12944-4 und der DIN EN ISO 12944-5.

Qualitätssicherung

Für die Qualitätssicherung sind die DIN EN ISO 12944-7 und die Richtlinie für Bauteilbeschichtungen auf Stahl und feuerverzinktem Stahl GSB ST 663 zu berücksichtigen.

Empfehlung Pulver

IGP-DURA face 5803 Fassadenqualität

Traitement de surface

Les surfaces des profilés Janisol Arte peuvent être traitées comme les profilés Janisol éprouvés. Les profilés Janisol Arte peuvent être laqués au four ou être revêtus de poudre. Température jusqu'à 180°C max. L'isolateur en PVC noir en polyuréthane renforcé par fibres de verre ne peut être revêtu de poudre, la peinture ne se répartit pas de manière homogène. Suivant le choix de la peinture ou les exigences de type esthétique, nous recommandons de recouvrir l'isolateur d'une bande de recouvrement thermorésistante dans la zone visible avant de le revêtir par poudre (451.049) ou ultérieurement avec bande de recouvrement 451.057.

Exigences

Les exigences vis à vis du traitement de surface sont réparties en six catégories de corrosion dans la norme DIN EN ISO 12944-2. La catégorie «C3 moyenne» au moins est déterminante pour les environnements extérieurs et intérieurs. Une durée de protection de 5 à 15 ans est supposée.

Recommandation

(selon DIN EN ISO 12944-2)

Catégorie de corrosion: C3

Durée de protection:

moyenne (M) 5 à 15 ans

Traitement préliminaire, système de revêtement

Les explications données dans les normes DIN EN ISO 12944-4 et DIN EN ISO 12944-5 servent de base à l'exécution du traitement de surface.

Assurance de la qualité

La norme DIN EN ISO 12944-7 et la directive sur les revêtements de l'acier et de l'acier galvanisé à chaud GSB ST 663 doivent être prises en compte pour l'assurance de la qualité.

Recommandation poudre

IGP-DURA face 5803 qualité façade

Surface treatment

Janisol Arte profiles can have basically the same surface treatment as the standard Janisol profiles. Janisol Arte profiles can be stove-enamelled and powder coated. Object temperature up to max. 180°C. The black PVC-U isolator made of glassfibre reinforced polyurethane cannot be powder coated as the colour cannot be applied evenly. Depending on the choice of colour or aesthetic requirements, for window sash we recommend covering the visible areas of the isolator with a heat resistant isolator cover (451.049) before carrying out the powder coating or afterwards with cover tape 451.057.

Requirements

The surface treatment requirements are divided into 6 corrosion categories under DIN EN ISO 12944-2.

«C3 moderate» is the most-used category for outside and inside use. The protection will last at least 5-15 years.

Recommendation (in accordance with DIN EN ISO 12944-2)

Corrosion category: C3

Duration of protection:

average, 5-15 years

Pre-treatment, coating system

Execution of the surface treatment based on DIN EN ISO 12944-4 and DIN EN ISO 12944-5.

Quality Assurance

For quality assurance, DIN EN ISO 12944-7 and the GSB ST 663 guidelines for steel and hot-dip galvanised steel component coating must be taken into account.

Powder recommendation

IGP-DURA face 5803 façade quality

Abdeckband 451.049

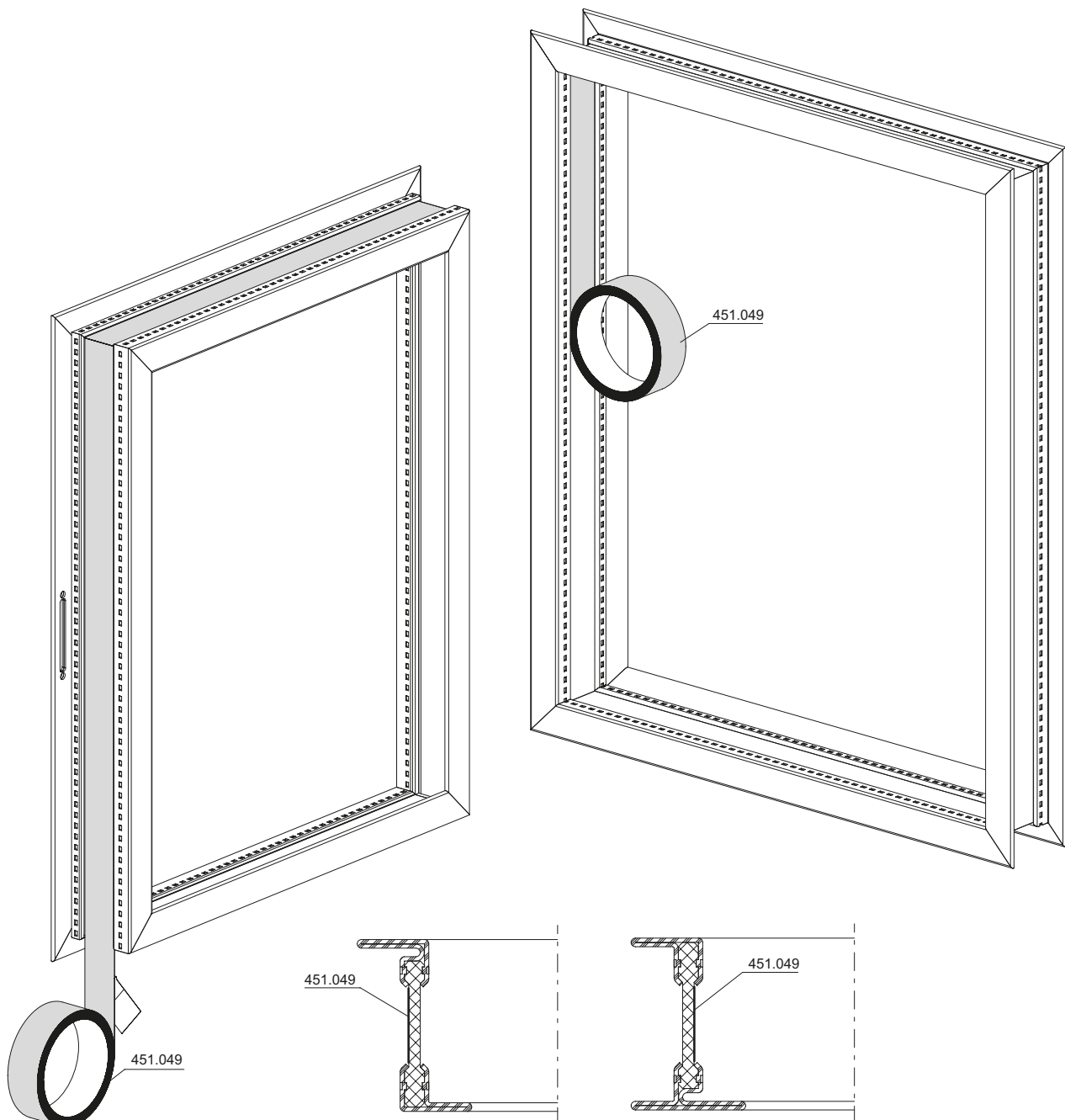
- Der Isolator muss trocken, staub-, öl- und fettfrei sein.
- Band direkt von der Rolle aufbringen. Schutzpapier sorgfältig abziehen.
- Band nicht in gestrecktem Zustand aufbringen.
- Überlappung ca. 200 mm

Bande de recouvrement 451.049

- L'isolateur doit être sec, exempt de poussière, d'huile et de graisse.
- Appliquer la bande directement à partir du rouleau. Retirer soigneusement le papier protecteur.
- Ne pas appliquer la bande en état étiré.
- Chevauchement env. 200 mm

Cover tape 451.049

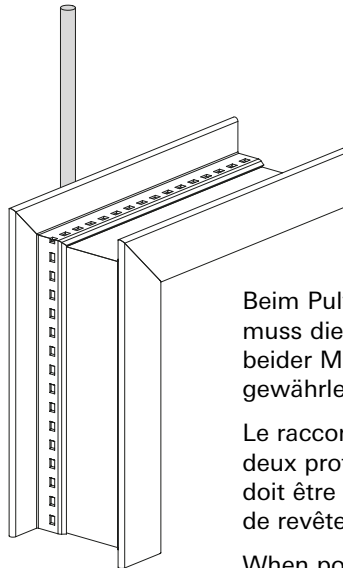
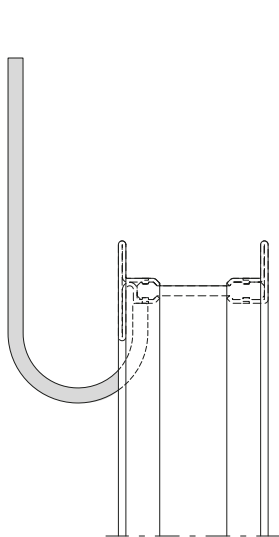
- The insulator must be dry and free from dust, oil and grease.
- Apply the strip straight from the roll. Remove the protective paper carefully.
- Do not stretch the strip while applying.
- Overlap approx. 200 mm



Aufhängung beim Beschichten
Einbrenntemperatur
Pulverbeschichtung max. 180°C

Suspension lors du revêtement
Température de cuisson revêtement
poudre max. 180°C

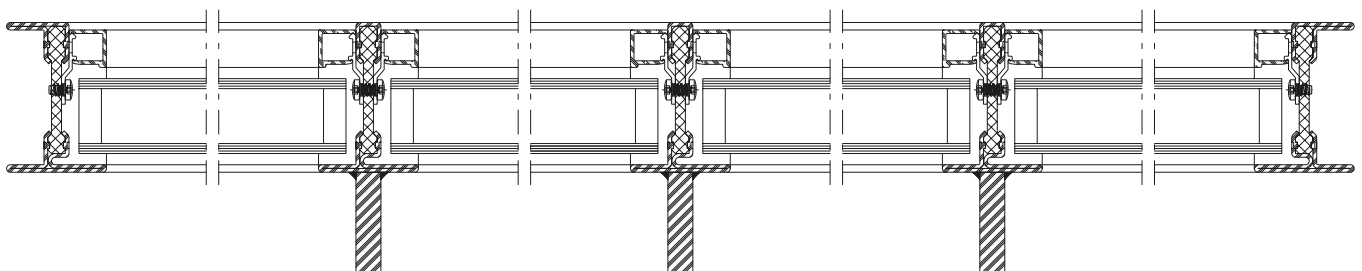
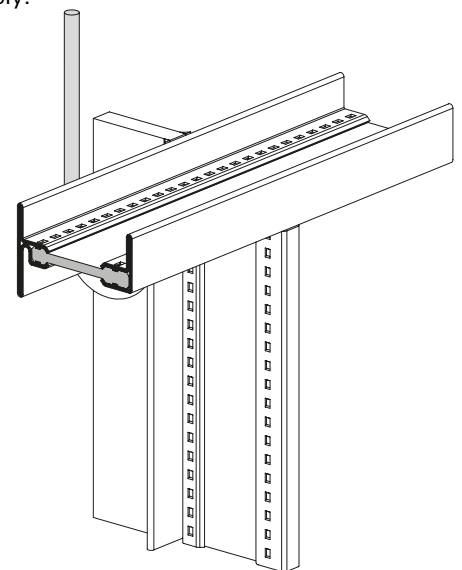
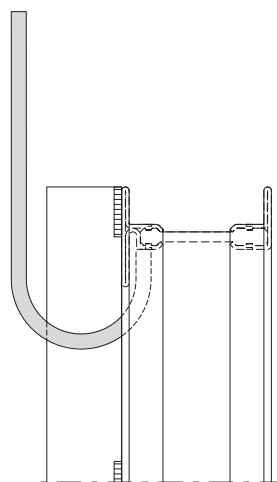
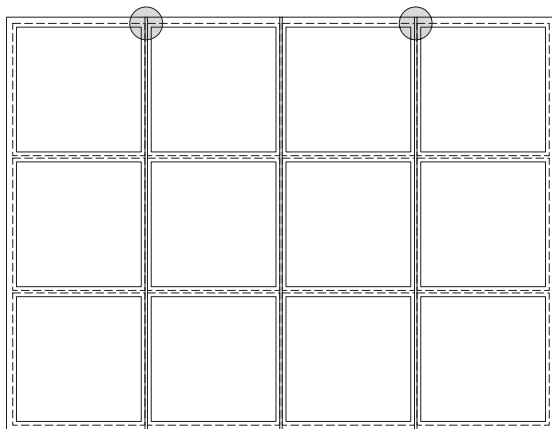
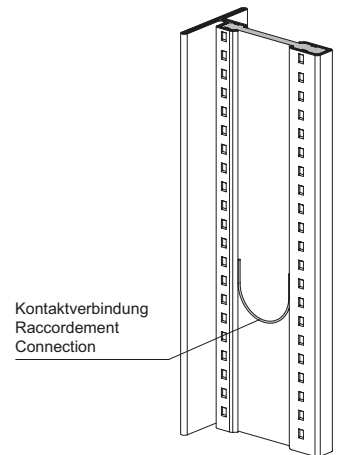
Hanging points for colour coating
Max. powder coating curing
temperature of 180°C



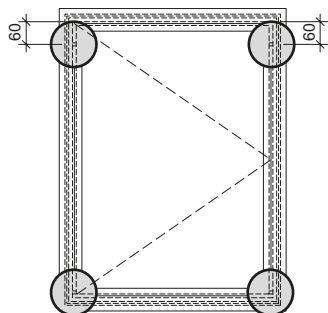
Beim Pulverbeschichten
muss die Verbindung
beider Metallprofile
gewährleistet sein.

Le raccordement des
deux profilés métalliques
doit être garanti en cas
de revêtement par poudre.

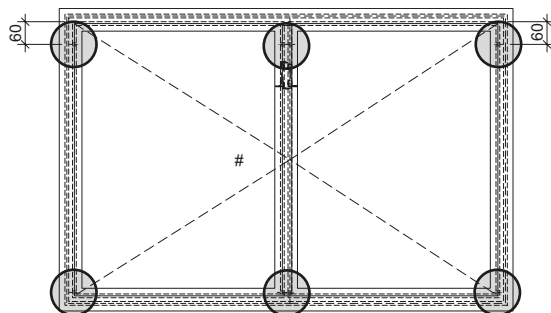
When powder coating,
the two metal profiles
must be joined securely.



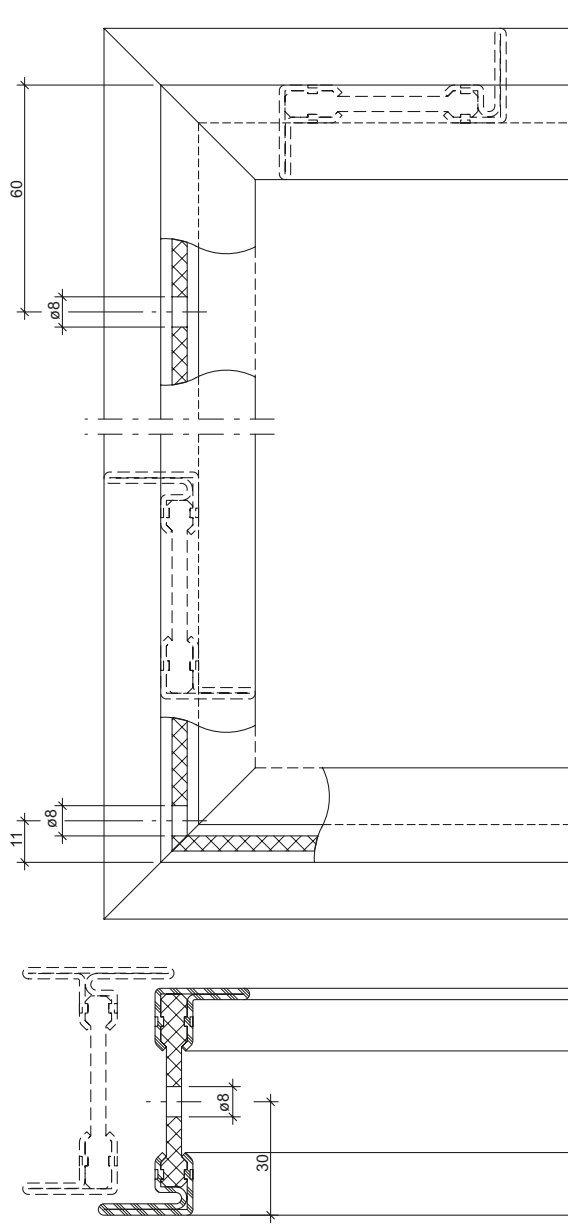
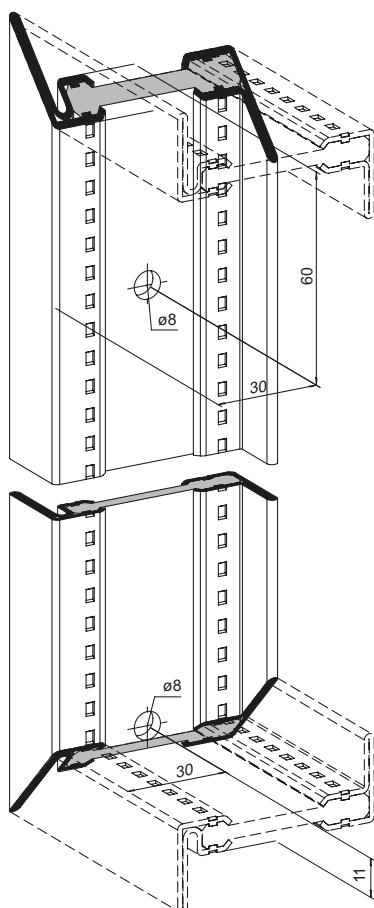
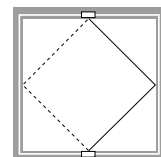
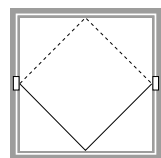
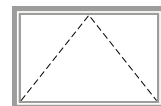
Glasfalzbelüftung
Fensterflügel einwärts öffnend



Aération de feuillure
Vantail de fenêtre ouvrant vers l'intérieur



Glazing rebate ventilation
Window leaf inward opening

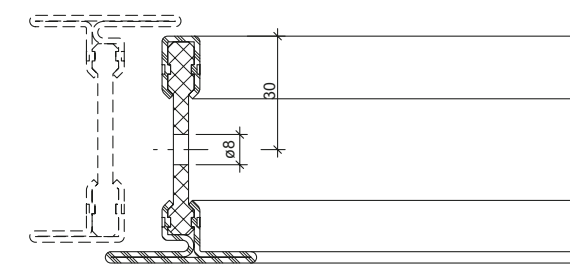
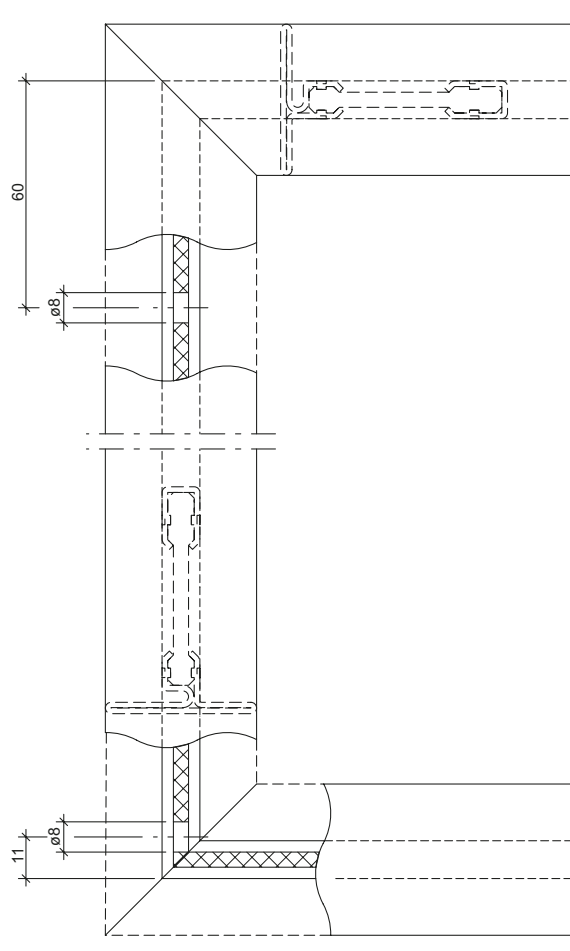
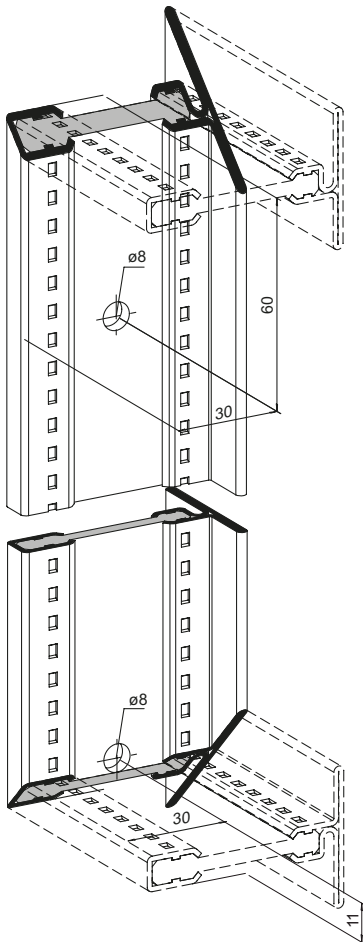
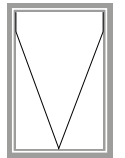
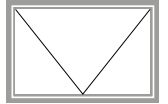
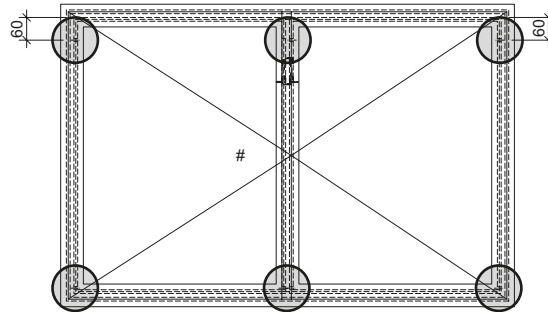
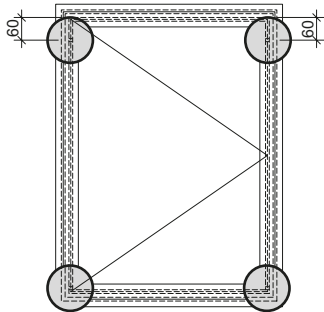


Bearbeitung mit 499.469
Usinage avec 499.469
Preparation with 499.469

Glasfalzbelüftung
Fensterflügel auswärts öffnend

Aération de feuillure
Vantail de fenêtre ouvrant vers
l'extérieur

Glazing rebate ventilation
Window leaf outward opening

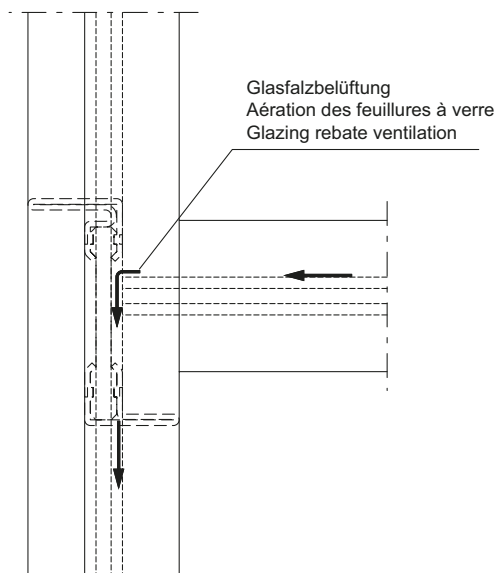
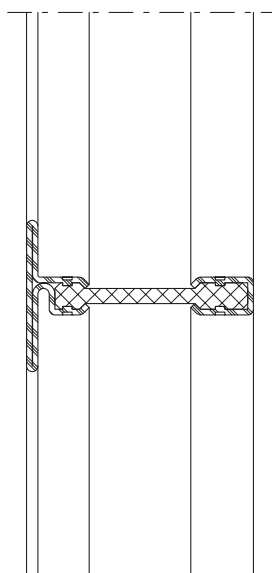
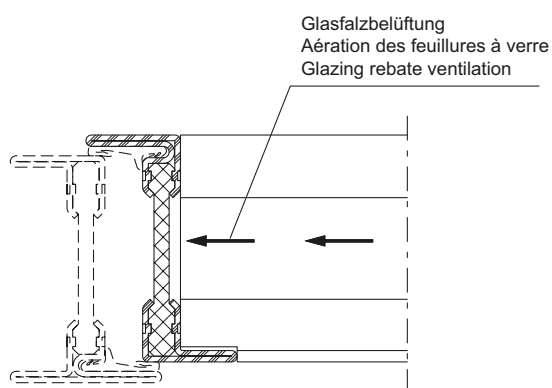
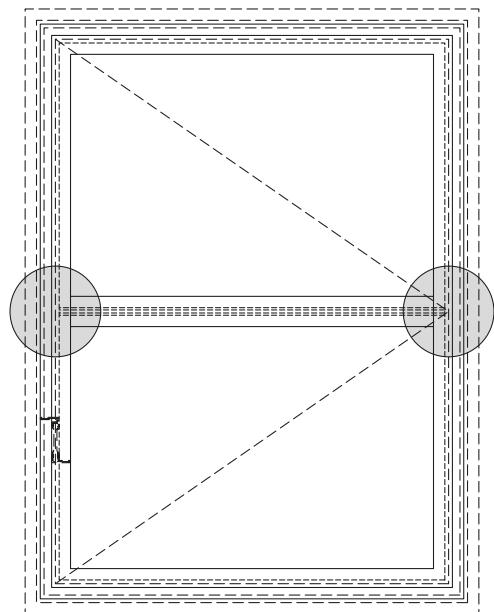


Bearbeitung mit 499.469
Usinage avec 499.469
Preparation with 499.469

Glasfalzbelüftung
Sprossen
Flügel

Aération des feuillures à verre
Meneaux
Vantail

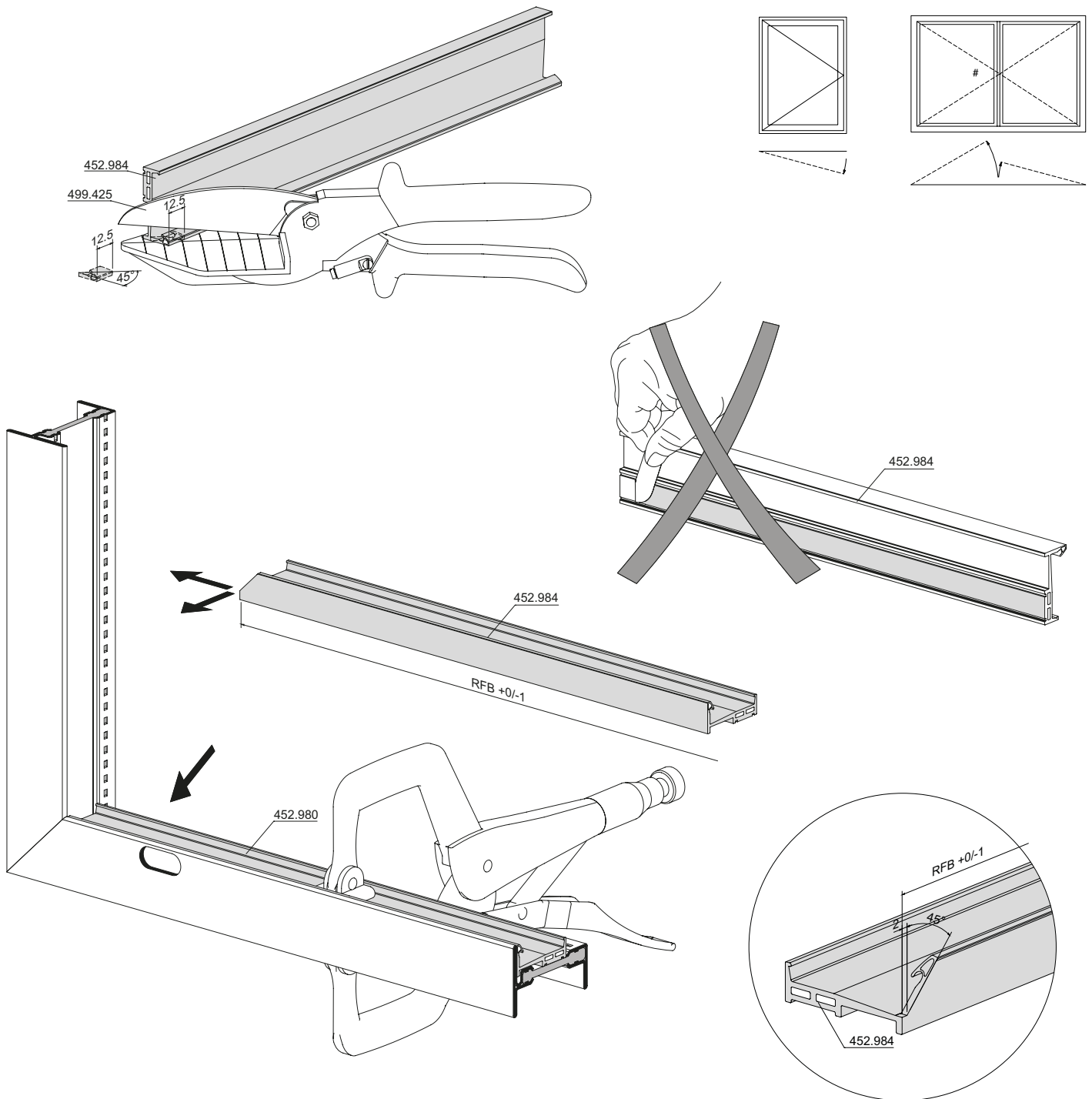
Glazing rebate ventilation
Sash bars
Sash



Zuschnitt
Entwässerungsprofil 452.984

Découpe
Profilé de drainage 452.984

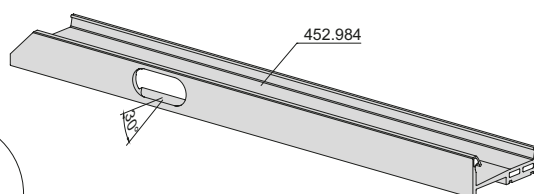
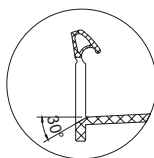
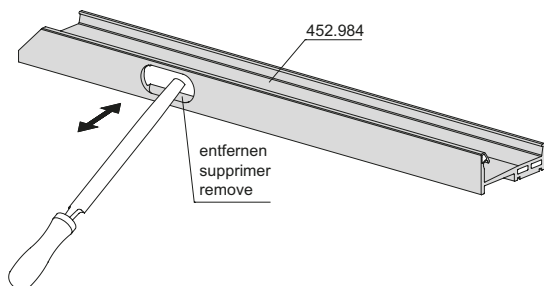
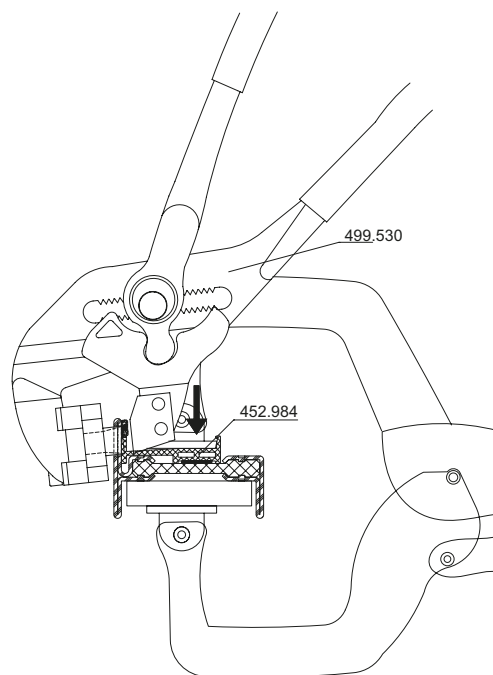
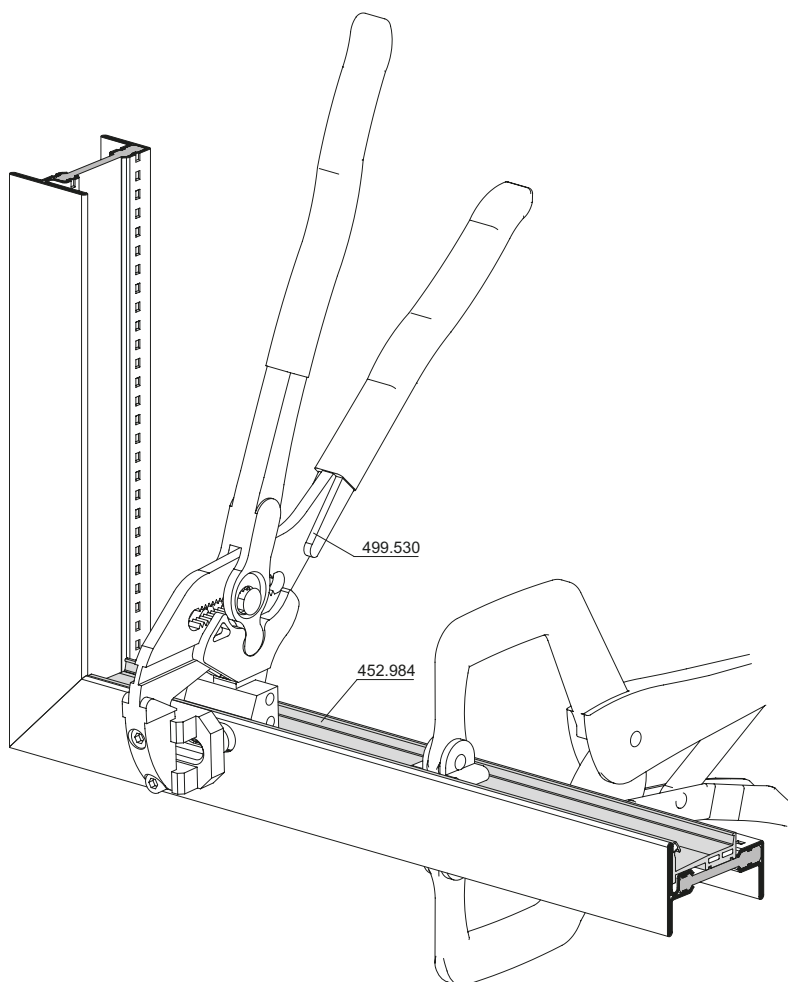
Cutting
Drainage profile 452.984



Klinkung für
Entwässerungstülle 450.115

Entaille
Profilé de drainage 452.984

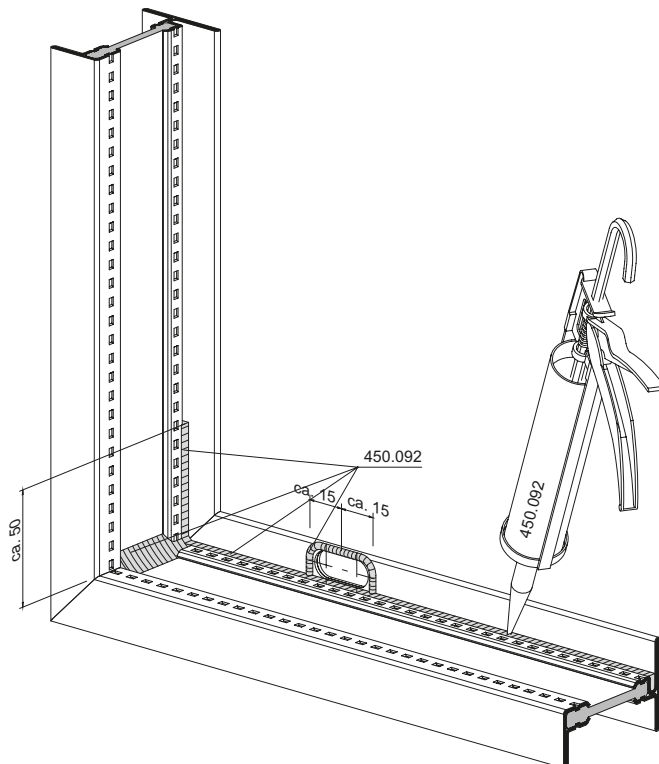
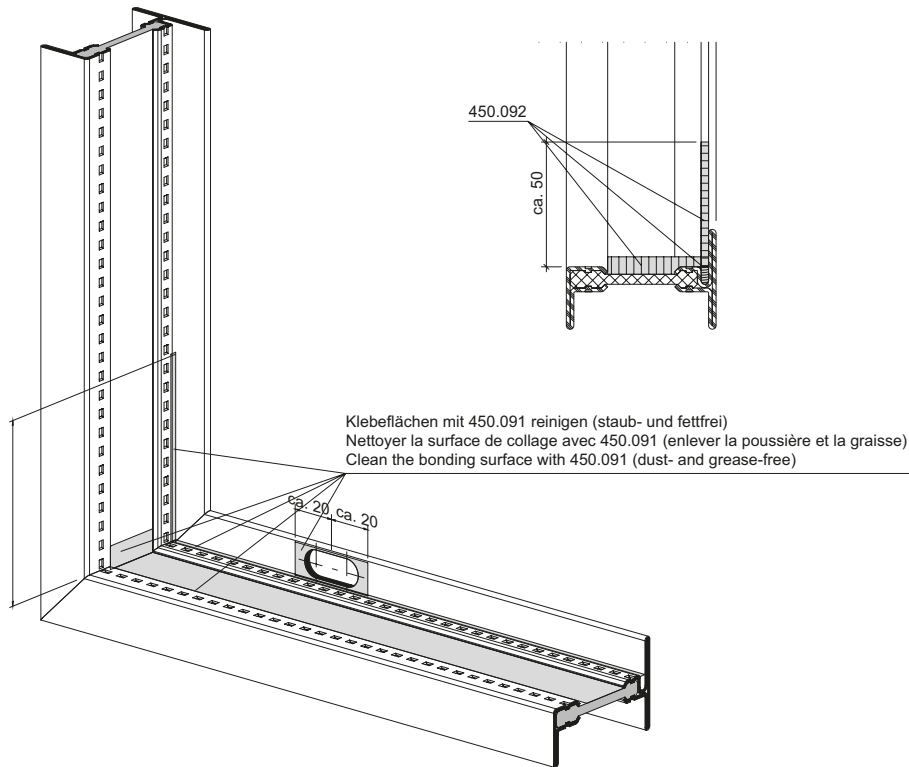
Notching
Drainage profile 452.984



Vorbereitung für Einbau
Entwässerungsprofil 452.984

Préparation pour montage
profilé de drainage 452.984

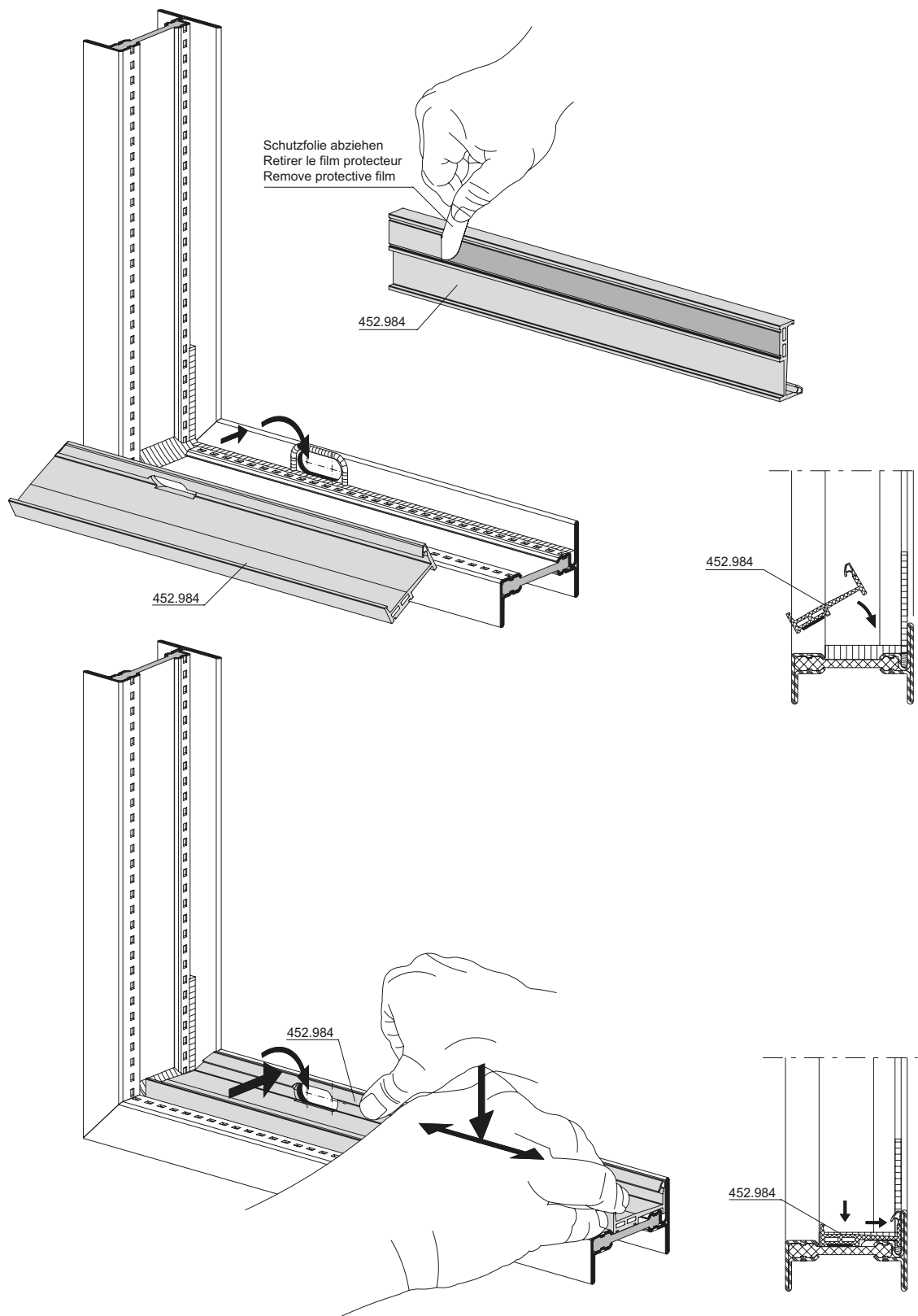
Preparation for installation
drainage profile 452.984



Einbau
Entwässerungsprofil 452.984

Montage
Profilé de drainage 452.984

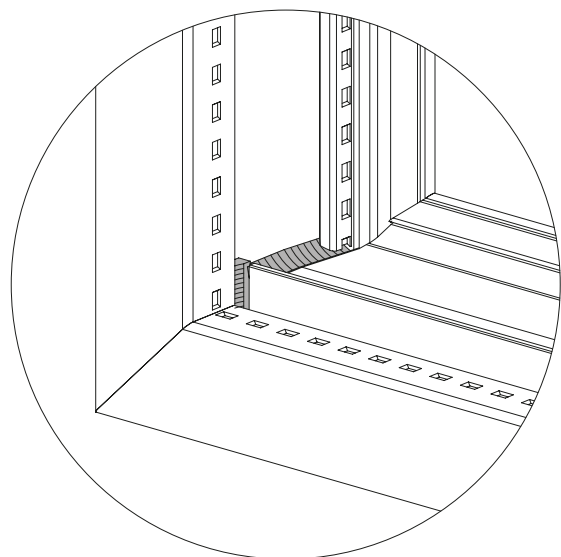
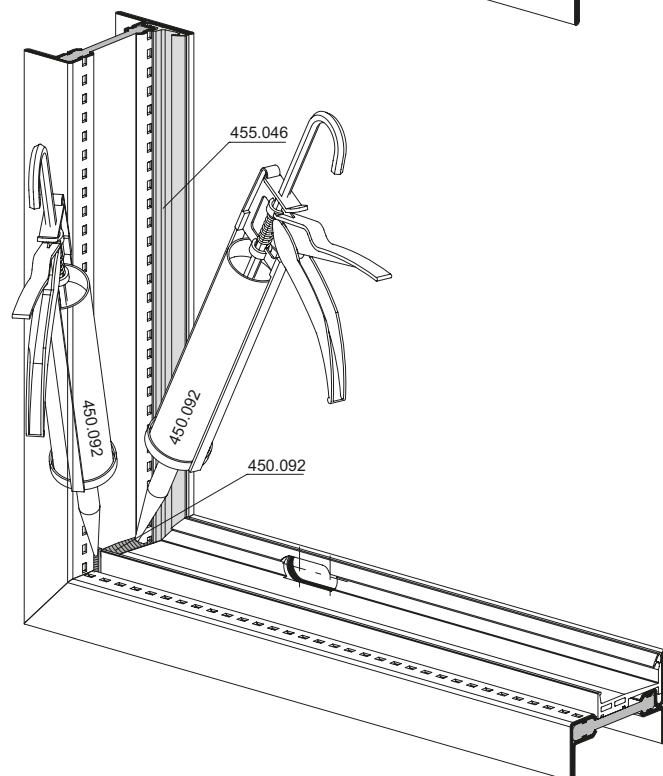
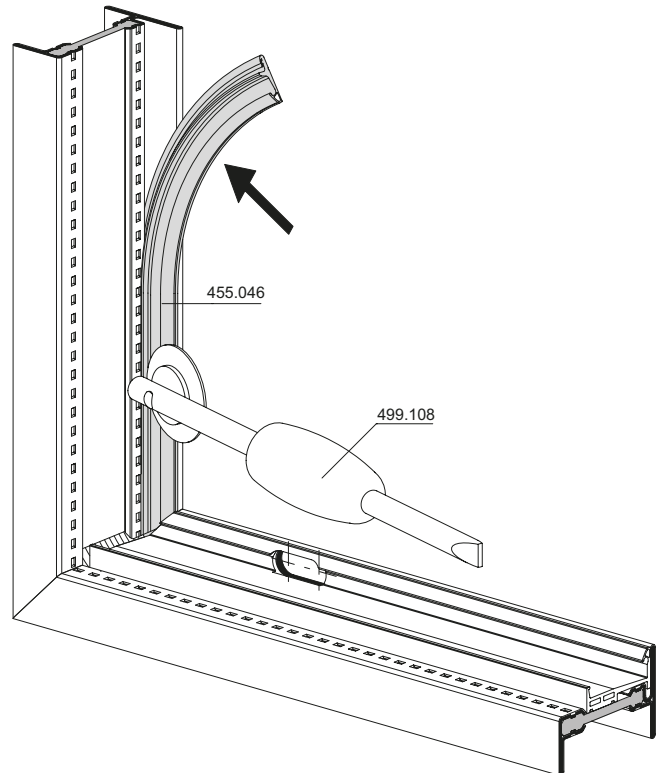
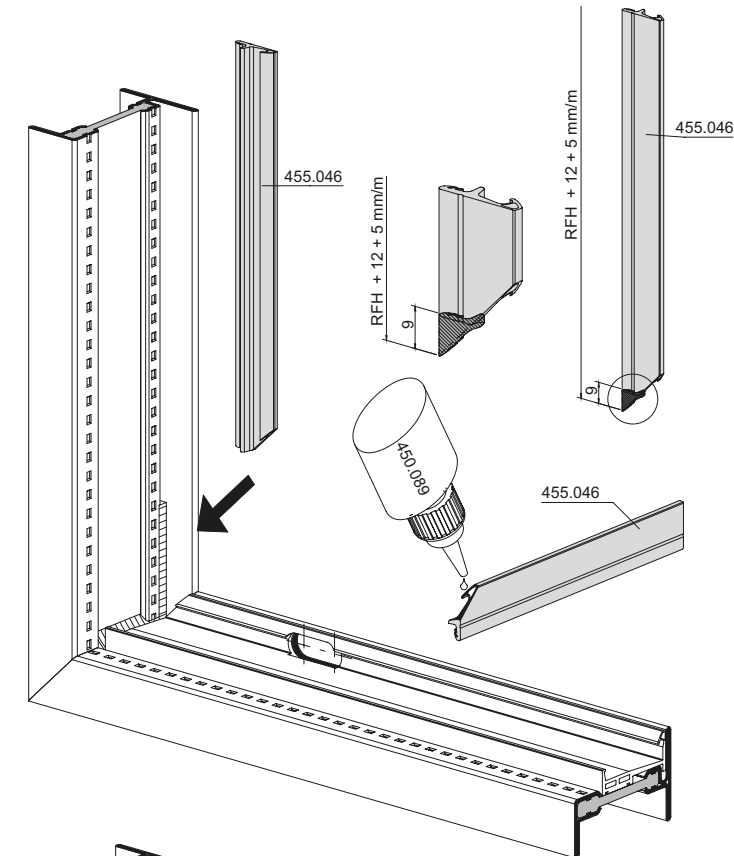
Installation
Drainage profile 452.984



Einbau
Anschlagdichtung 455.046

Montage
Joint de butée 455.046

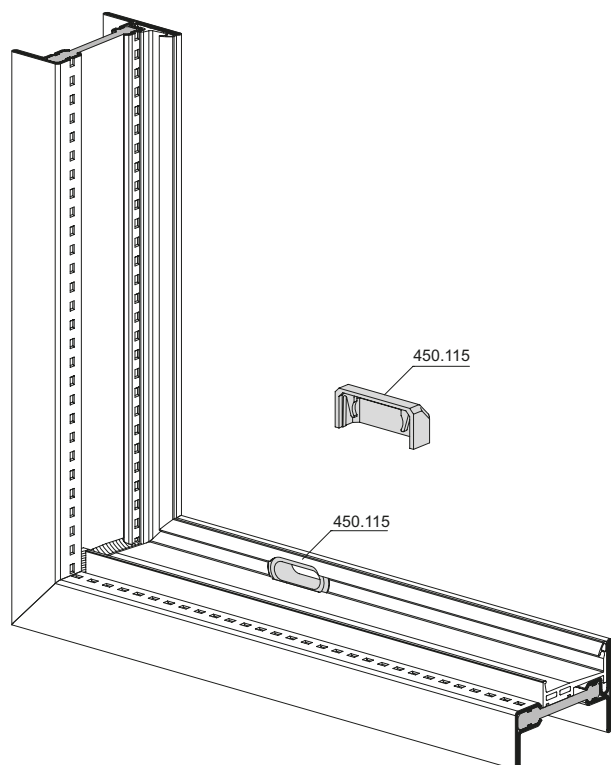
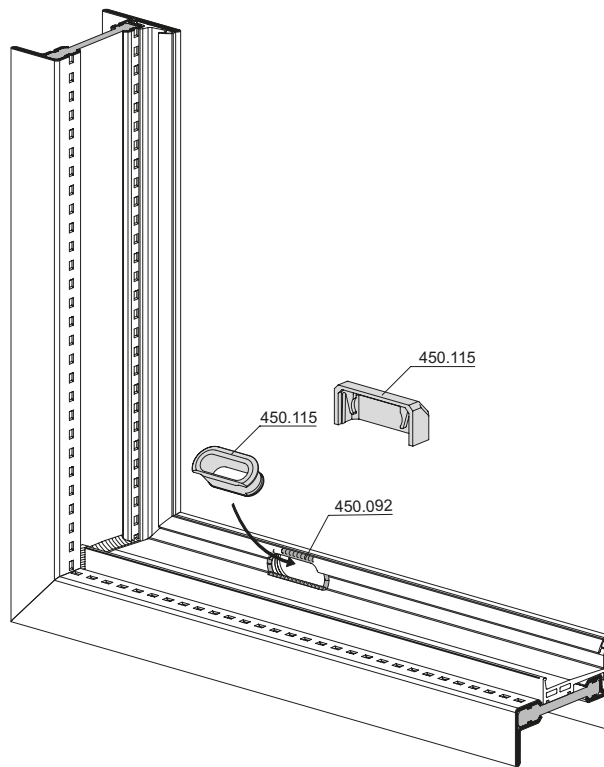
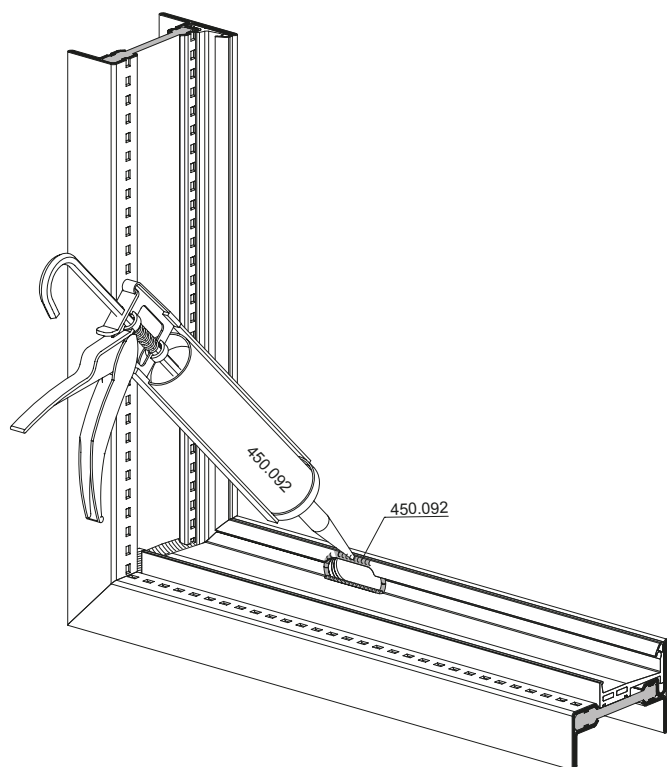
Installation
Rebate weatherstrip 455.046



Einbau
Entwässerungstülle 450.115

Montage
Douille d'évacuation d'eau 450.115

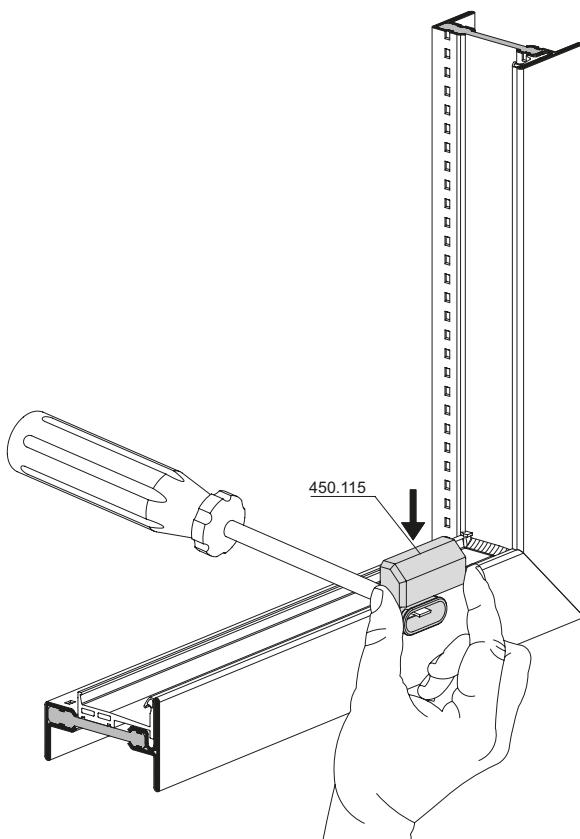
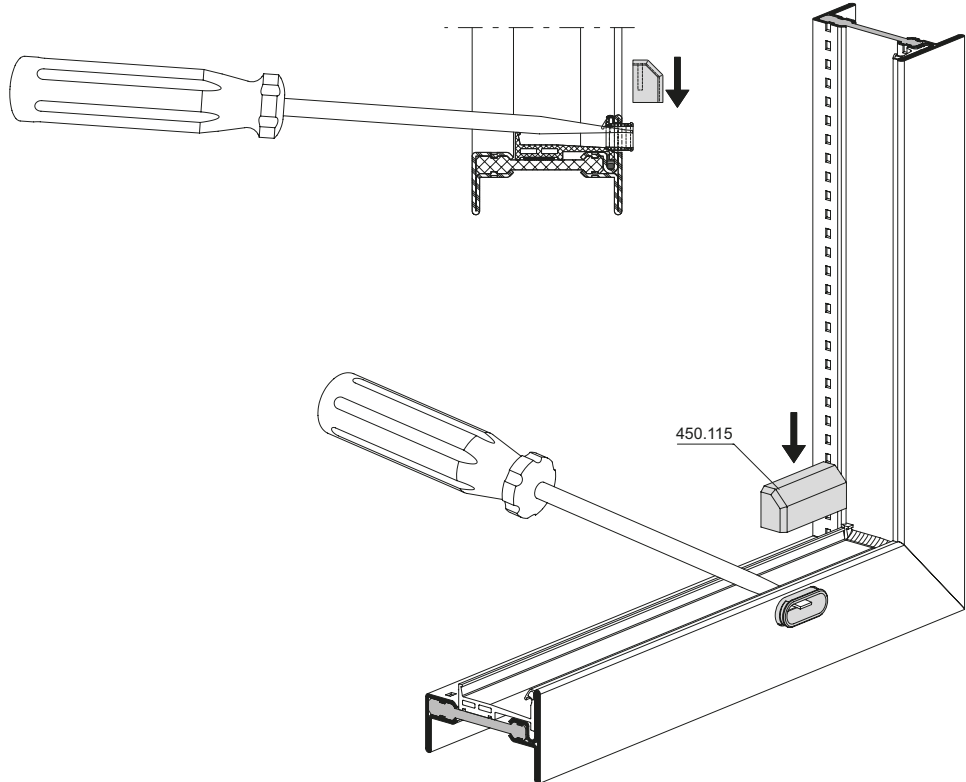
Installation
Drain pipe 450.115



Einbau
Entwässerungstülle 450.115

Montage
Douille d'évacuation d'eau 450.115

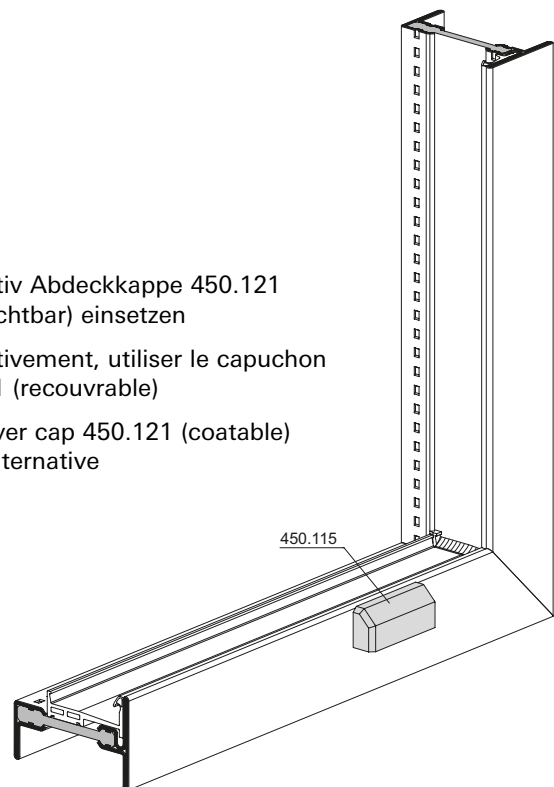
Installation
Drain pipe 450.115



Alternativ Abdeckkappe 450.121
(beschichtbar) einsetzen

Alternativement, utiliser le capuchon
450.121 (recouvrable)

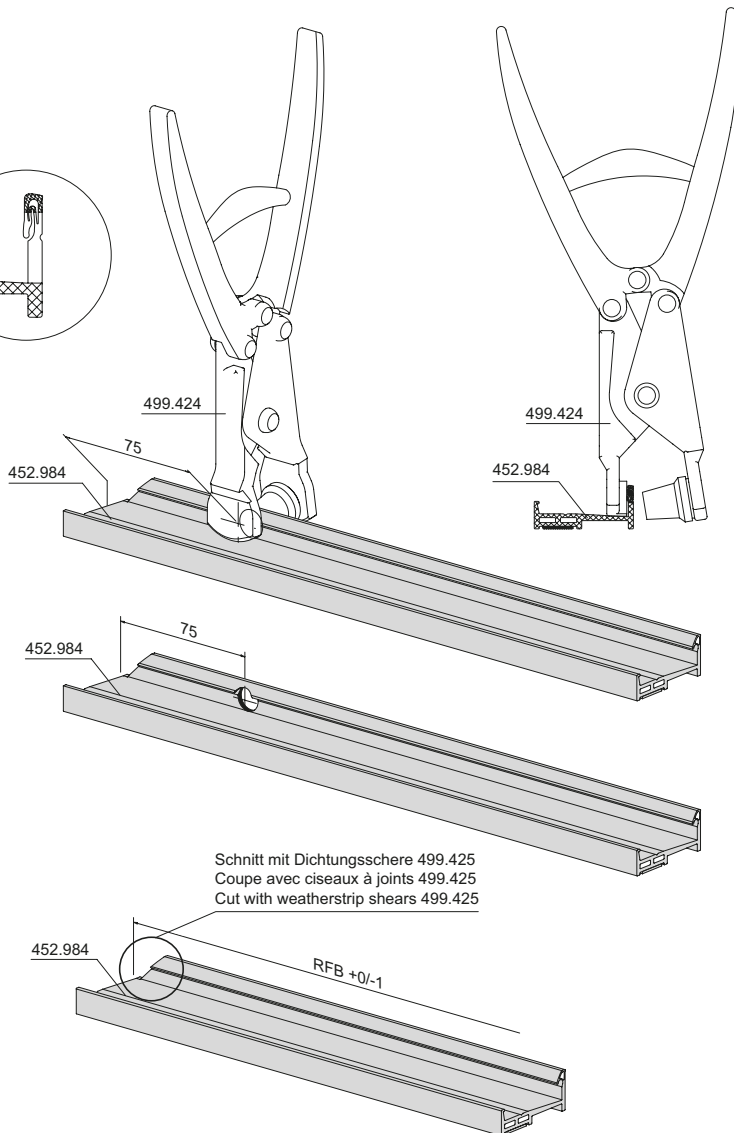
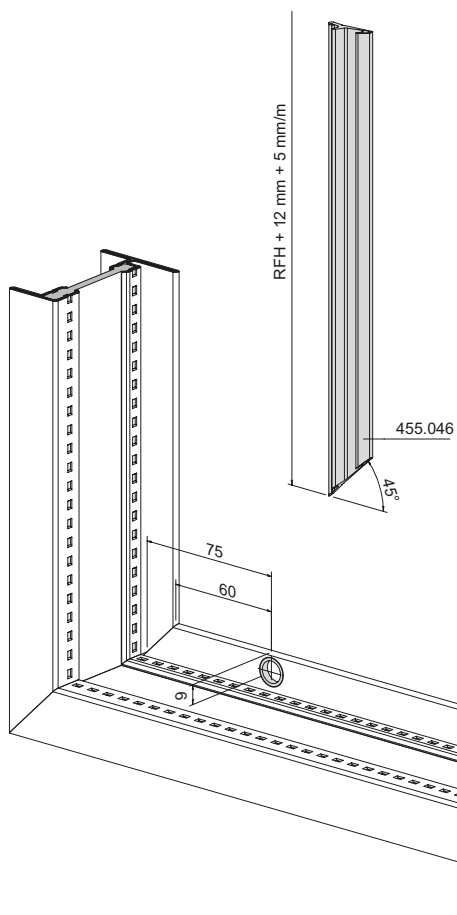
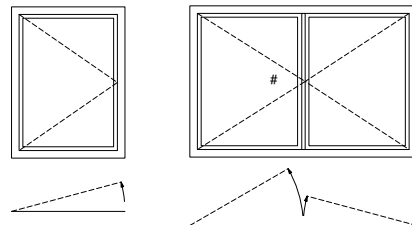
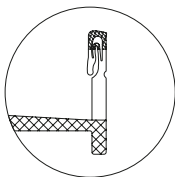
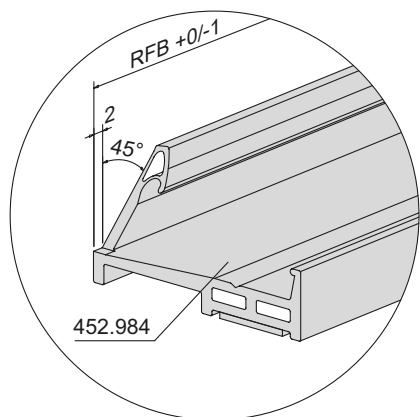
Use cover cap 450.121 (coatable)
as an alternative



Zuschnitt
Entwässerungsprofil 452.984

Découpe
Profilé de drainage 452.984

Cutting
Drainage profile 452.984

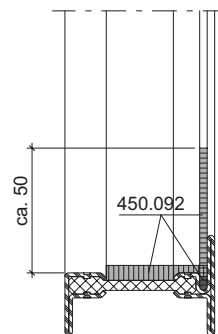
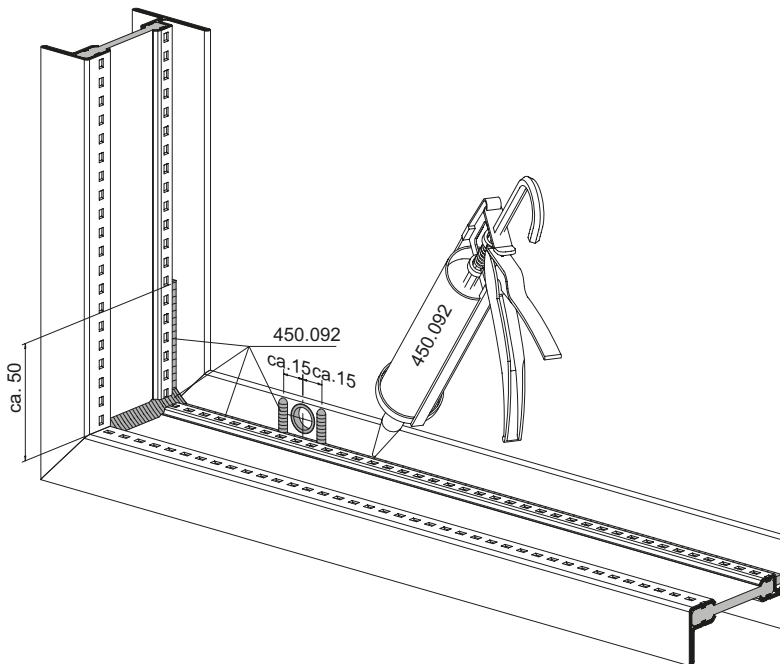
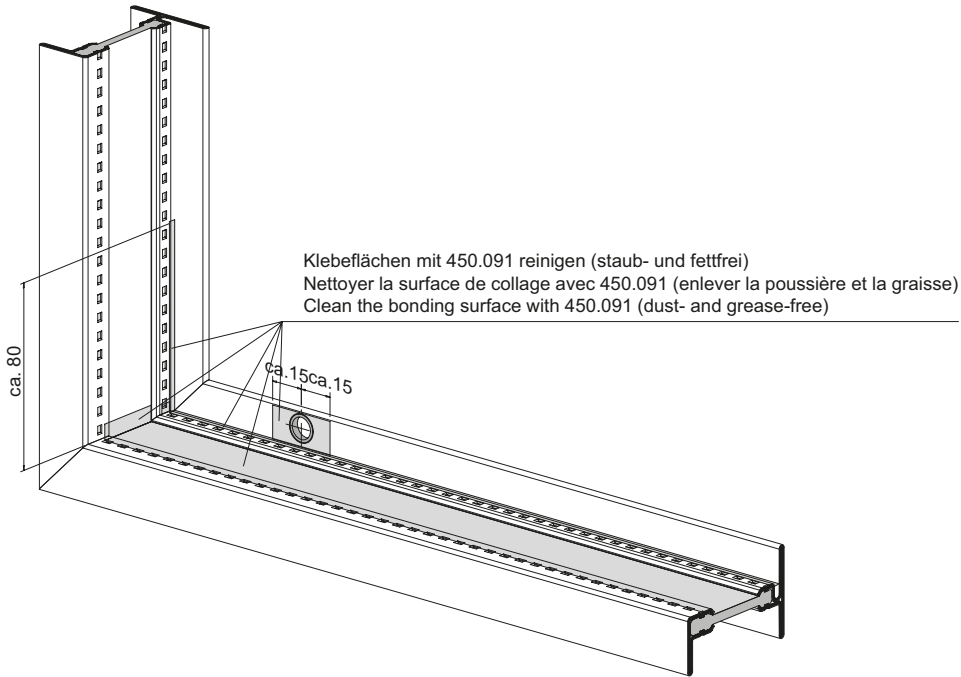


Schnitt mit Dichtungsschere 499.425
Coupe avec ciseaux à joints 499.425
Cut with weatherstrip shears 499.425

Vorbereitung für Einbau
Entwässerungsprofil 452.984

Préparation pour montage
profilé de drainage 452.984

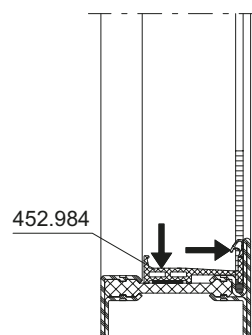
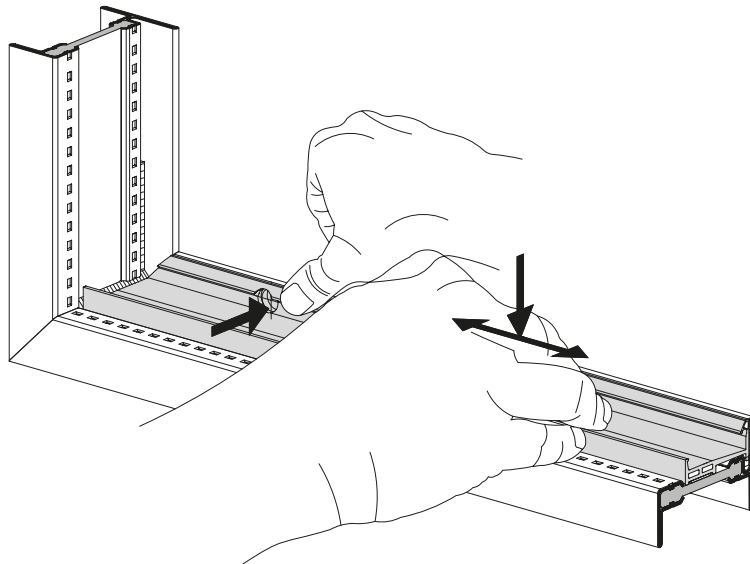
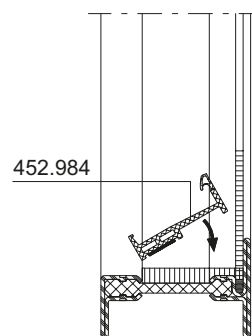
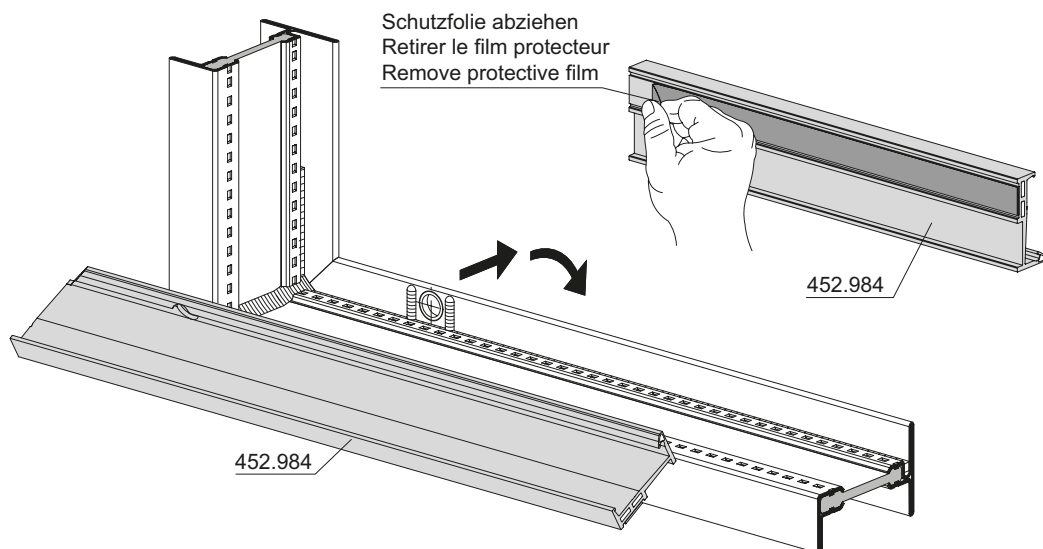
Preparation for installation
drainage profile 452.984



Einbau
Entwässerungsprofil 452.984

Montage
Profilé de drainage 452.984

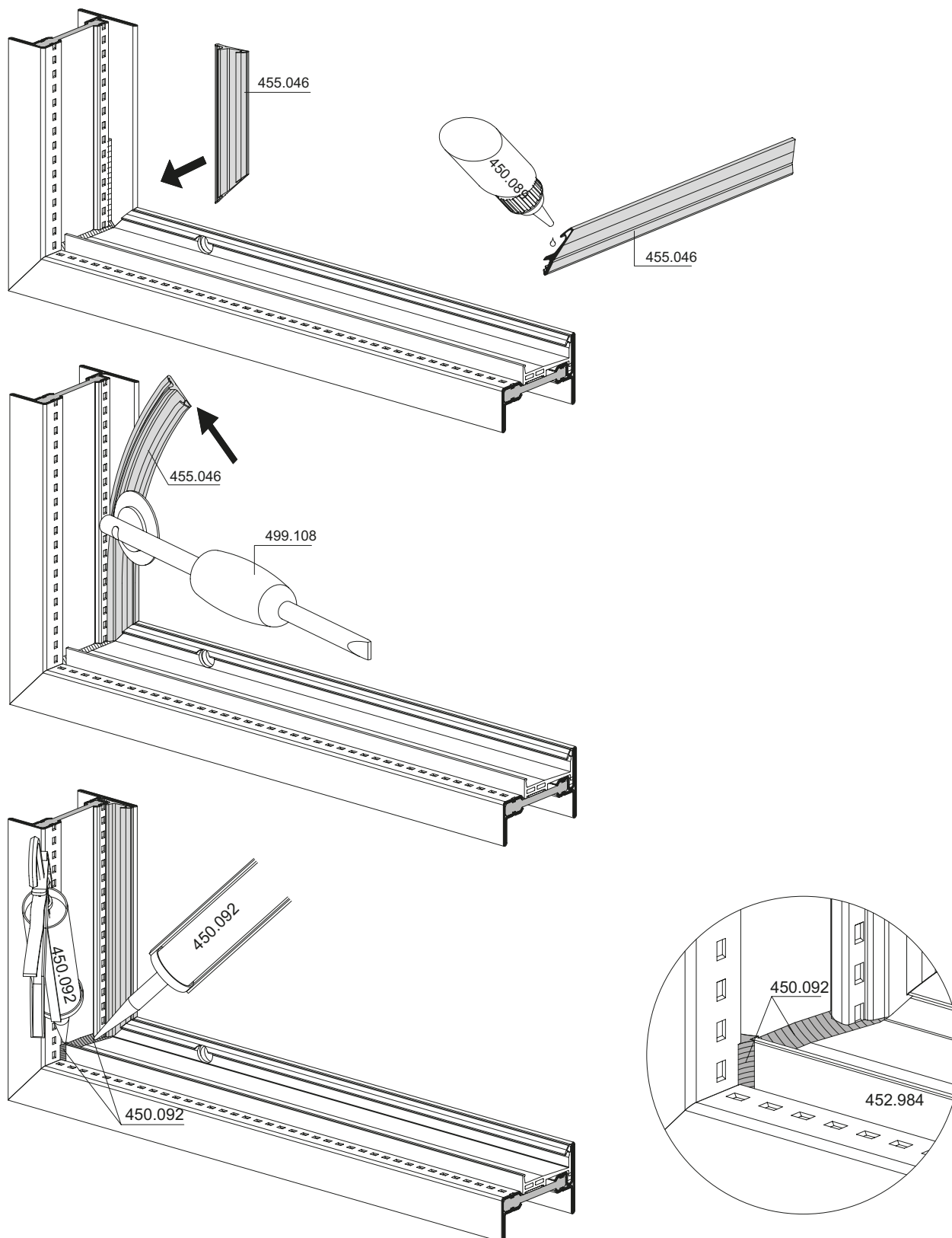
Installation
Drainage profile 452.984



Einbau
Anschlagdichtung 455.046

Montage
Joint de butée 455.046

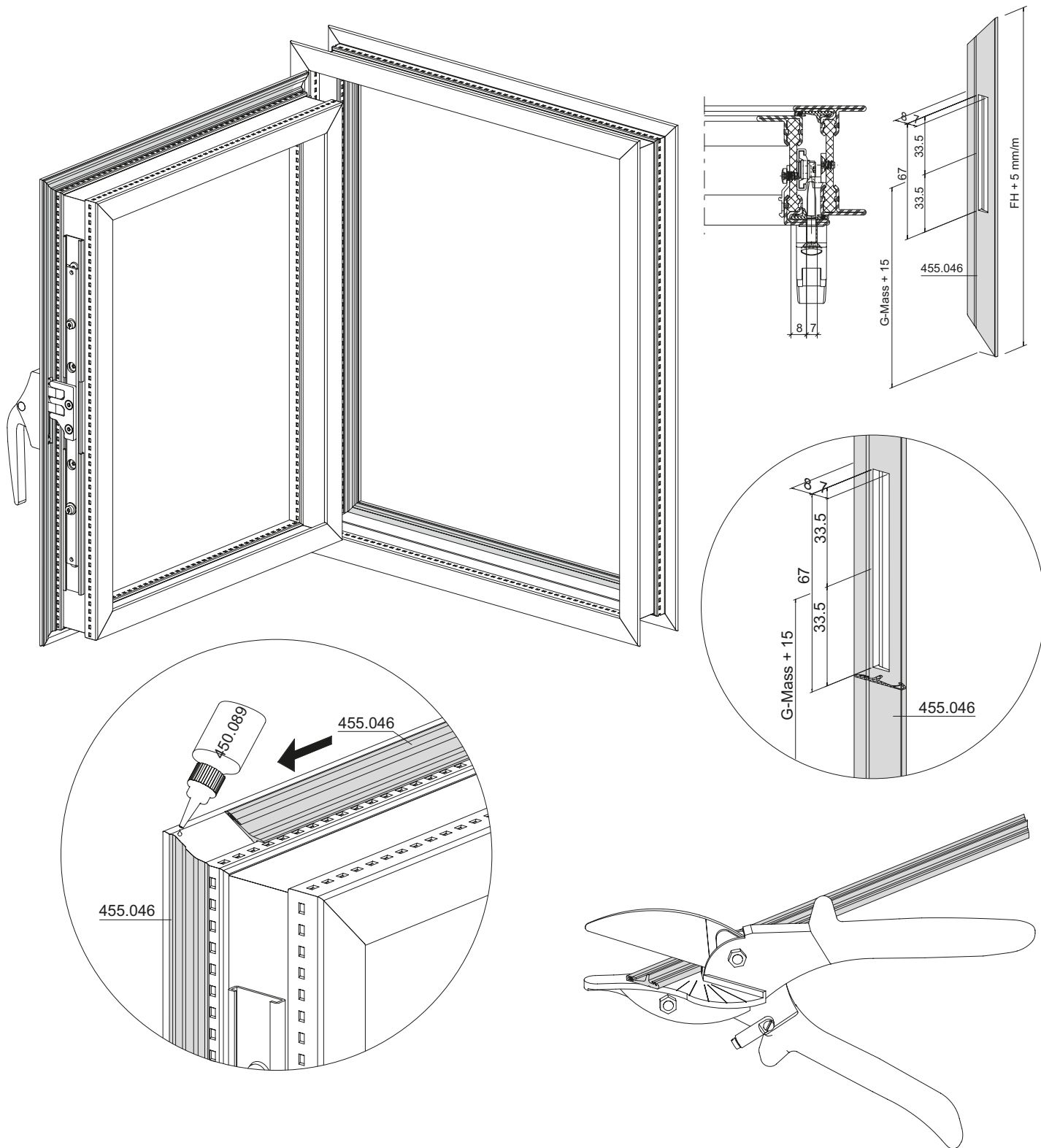
Installation
Rebate weatherstrip 455.046



Montage Flügeldichtung 455.046

Montage joint de vantail 450.046

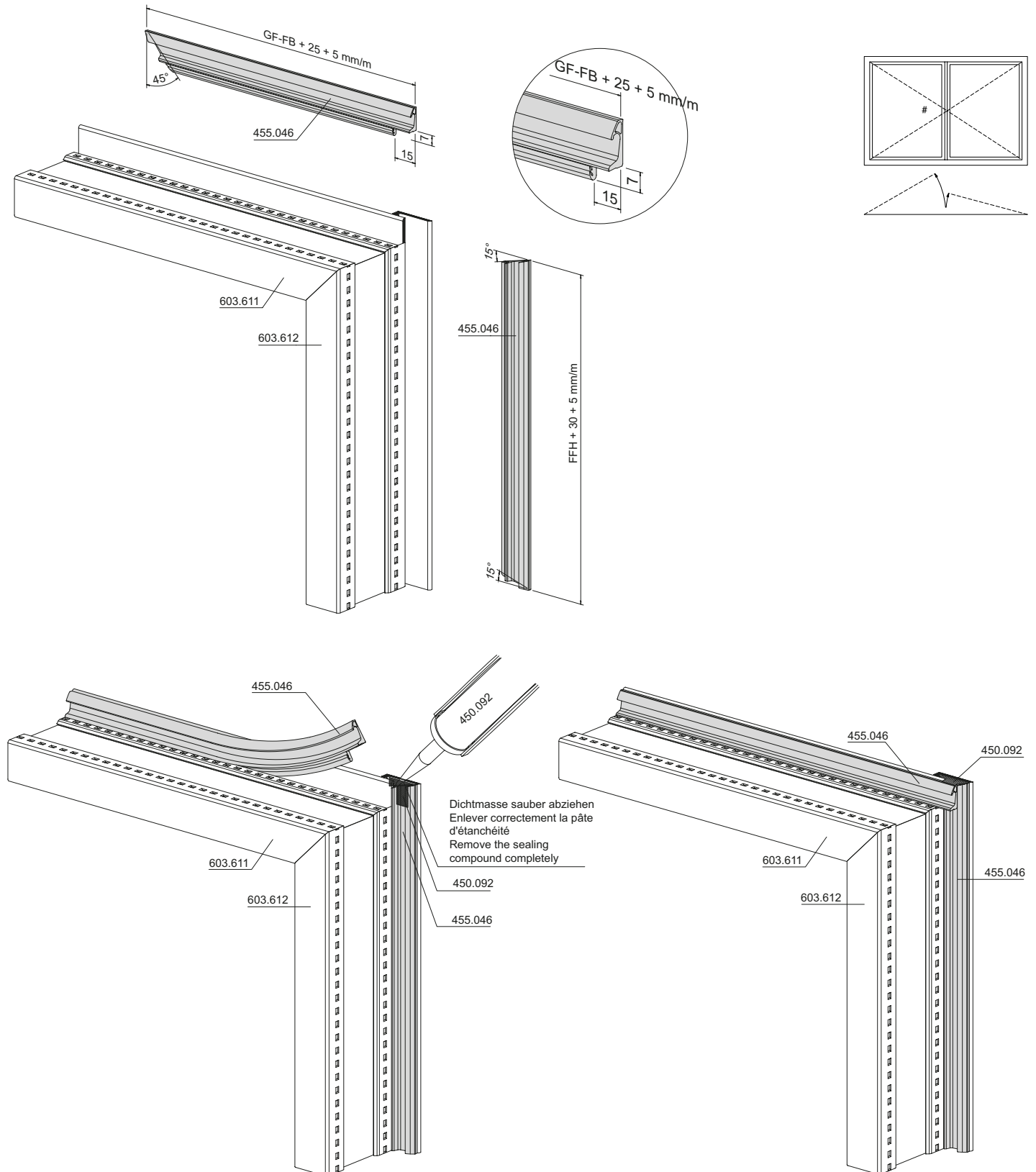
Installation of sash weatherstrip
450.046



Montage Flügeldichtung 455.046
Gangflügel

Montage joint de vantail 450.046
Vantail de service

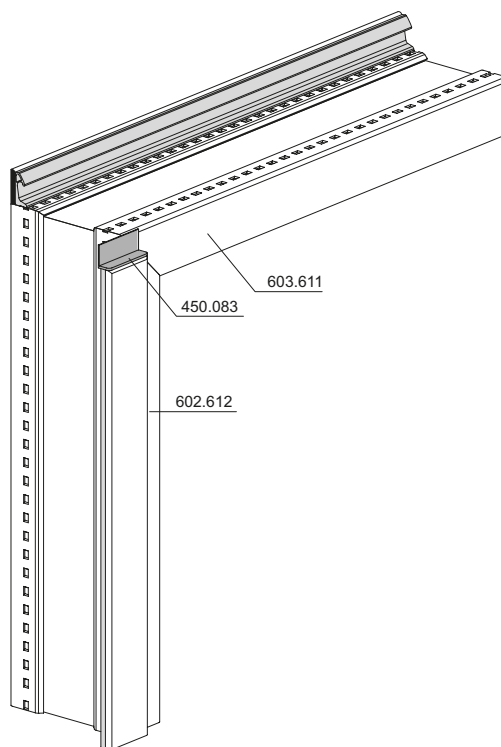
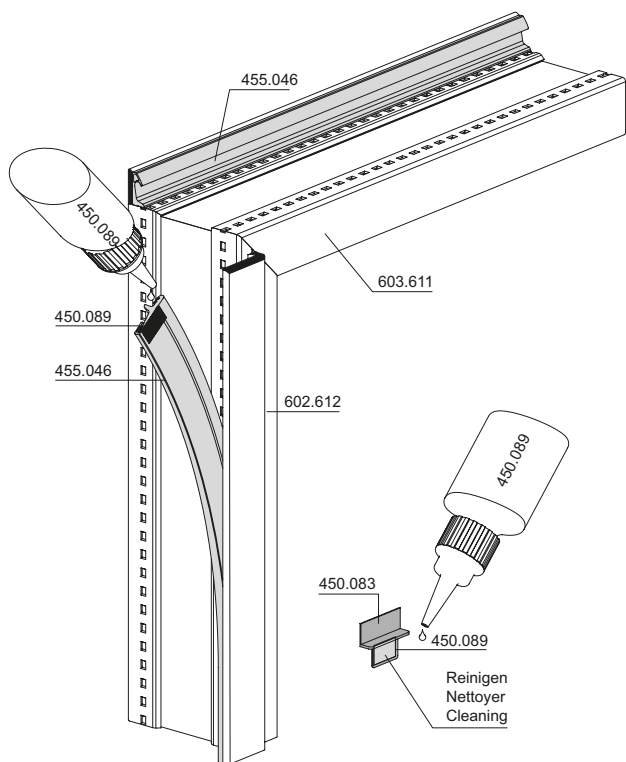
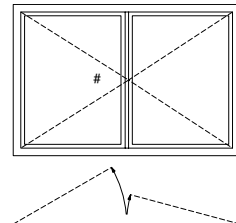
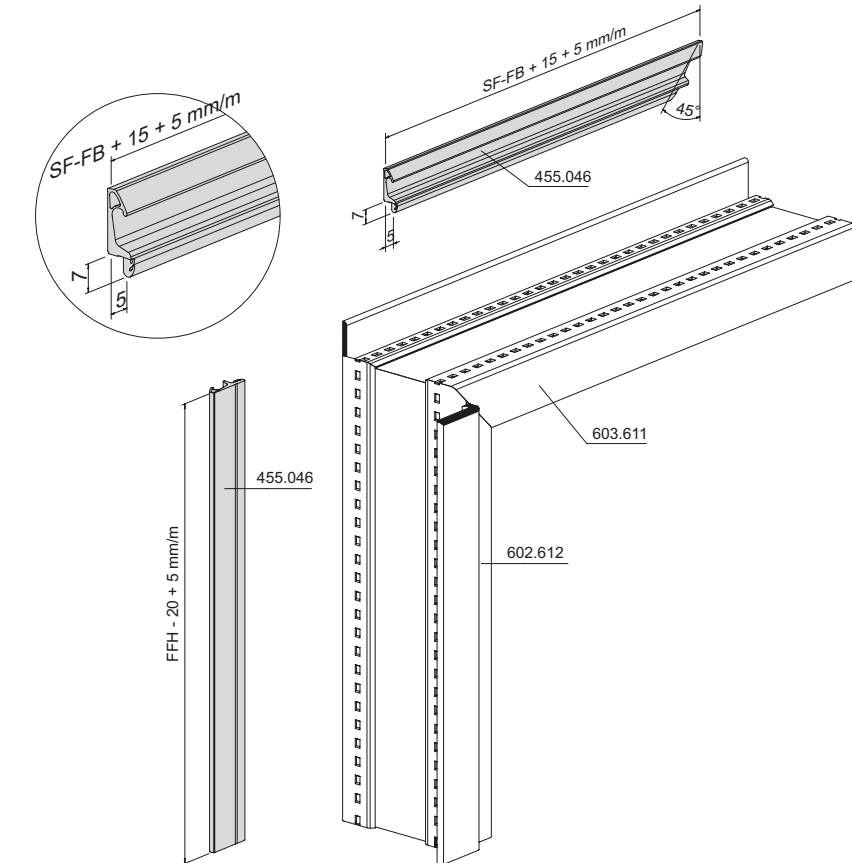
Installation of sash weatherstrip
450.046
Access sash



Standflügel

Vantail semi-fixe

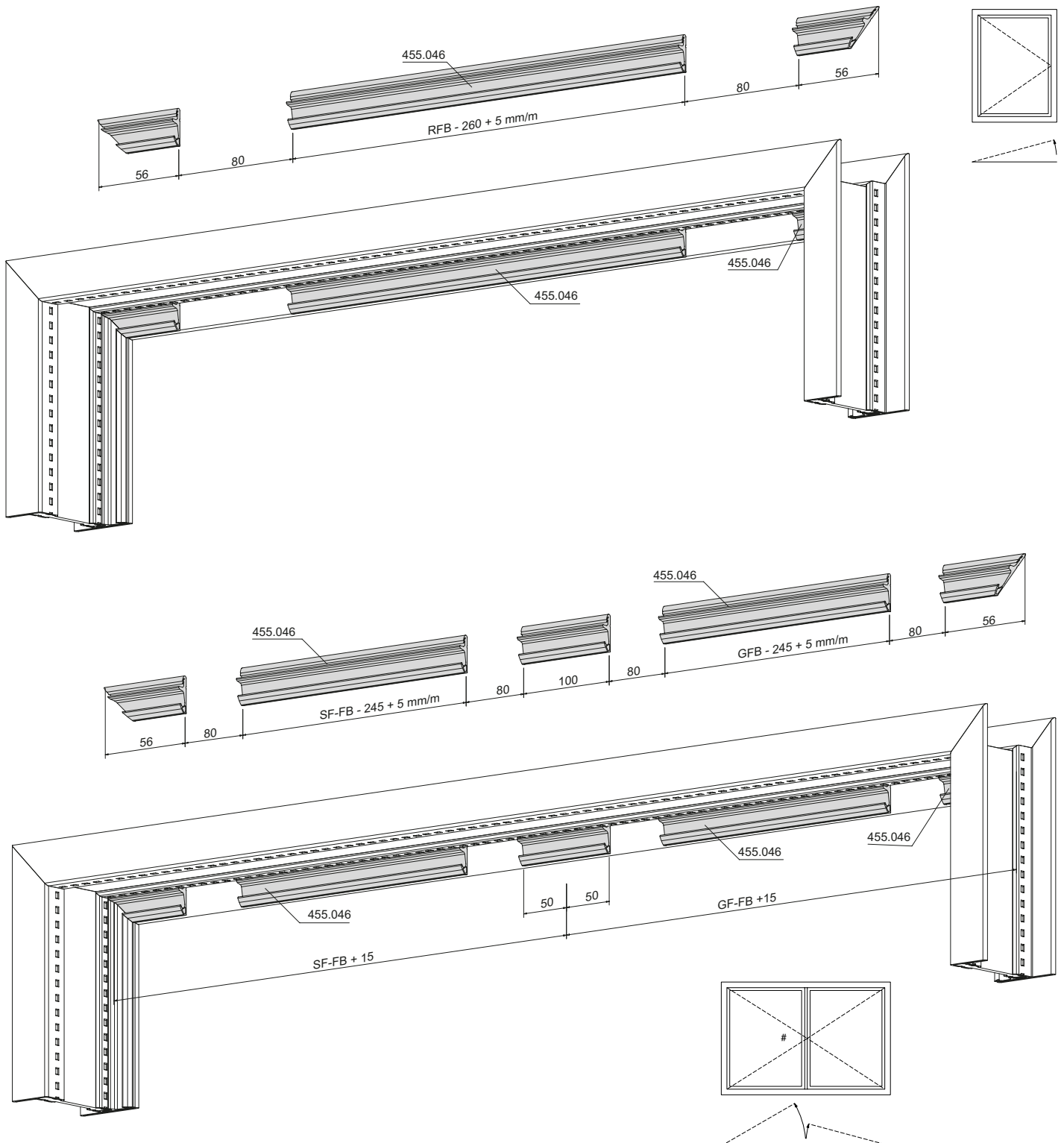
Secondary sash



Dichtungs-Ausnehmung 455.046
Rahmen

Évidement pour le joint 455.046
Cadre

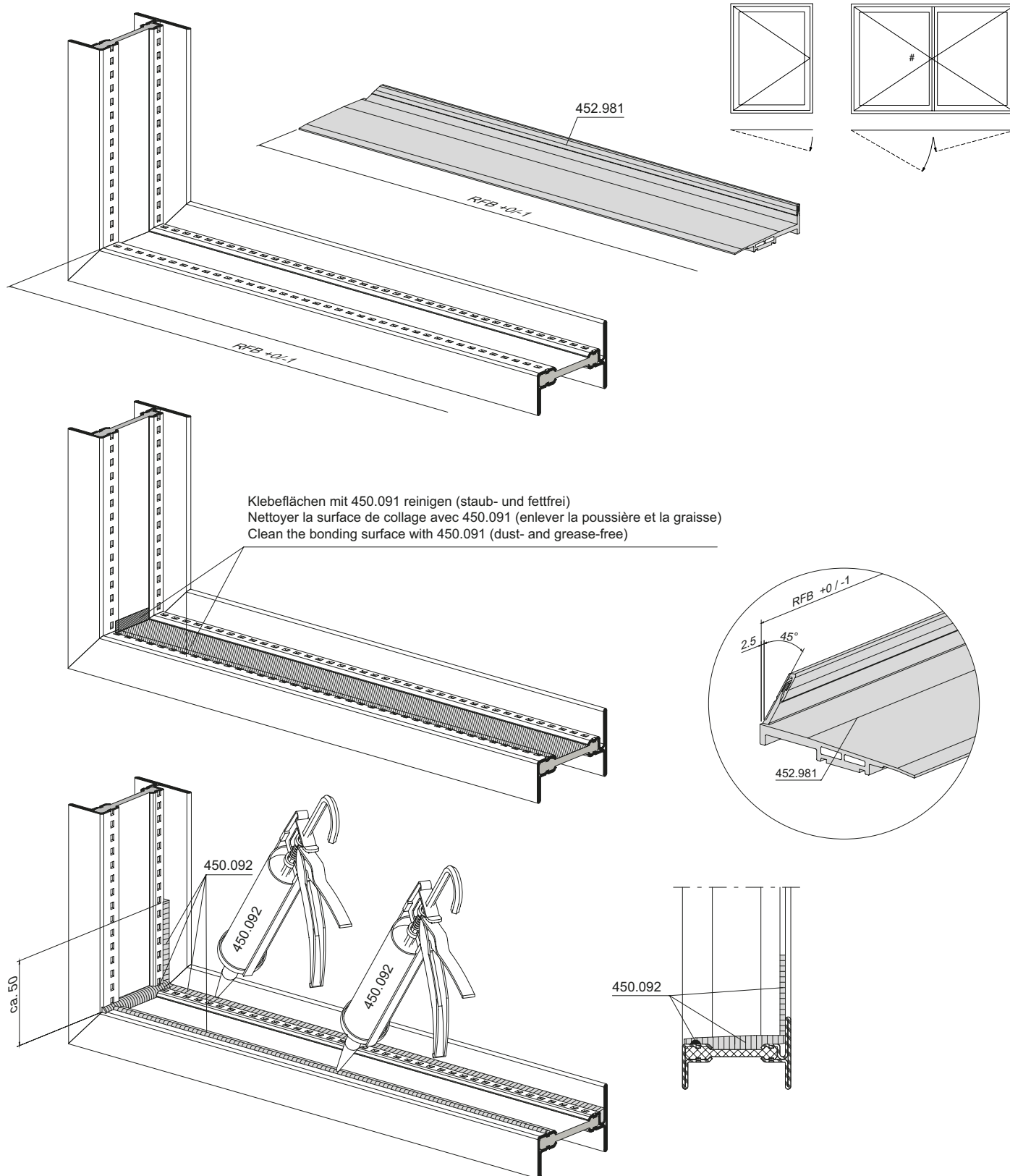
Openings in the weatherstrip 455.046
Frame



Zuschnitt und Vorbereitung für
Einbau Entwässerungsprofil 452.981

Découpe et préparation pour
montage profilé de drainage 452.981

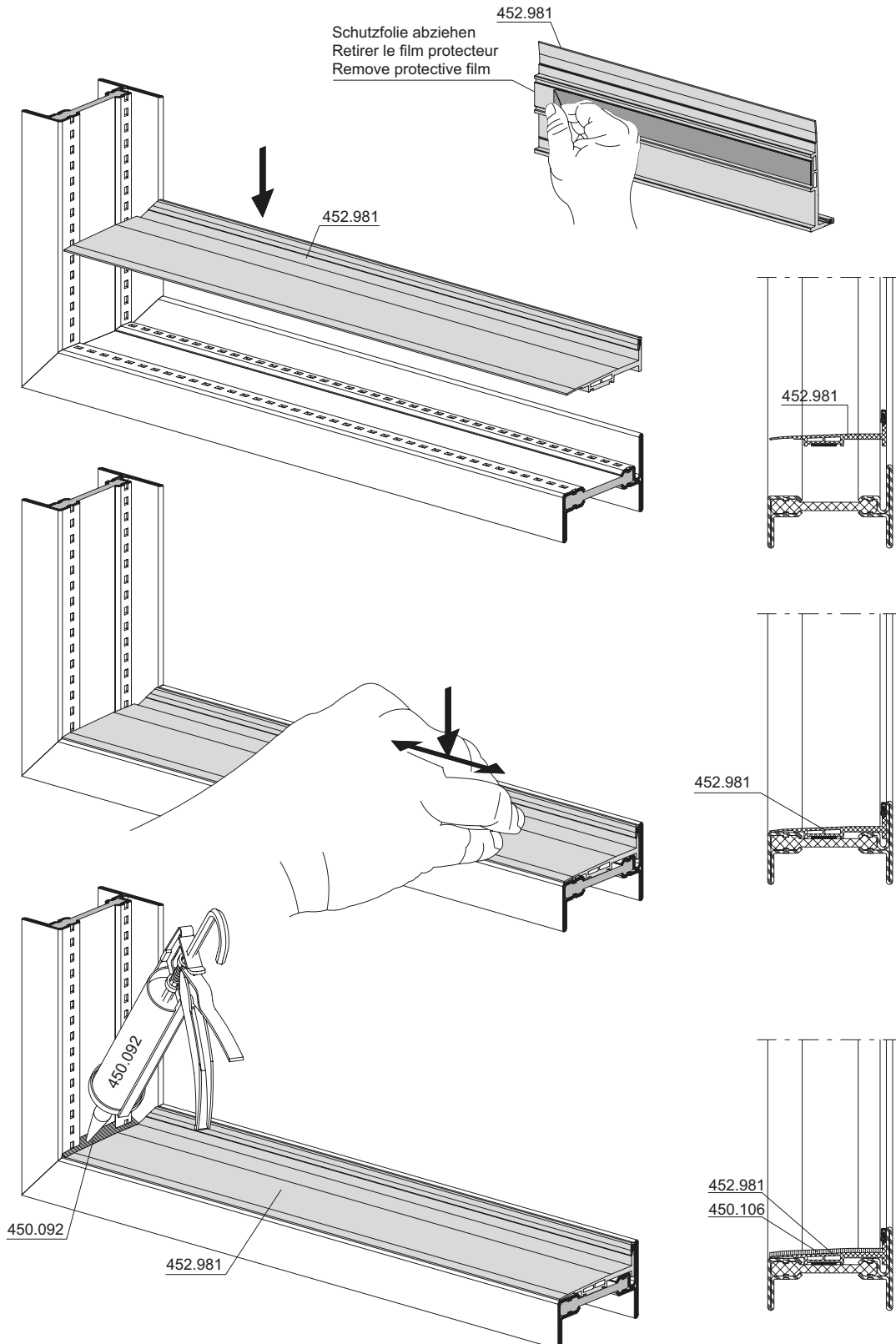
Cutting and preparation for
installation drainage profile 452.981



Einbau Entwässerungsprofil 452.981

Montage profilé de drainage
452.981

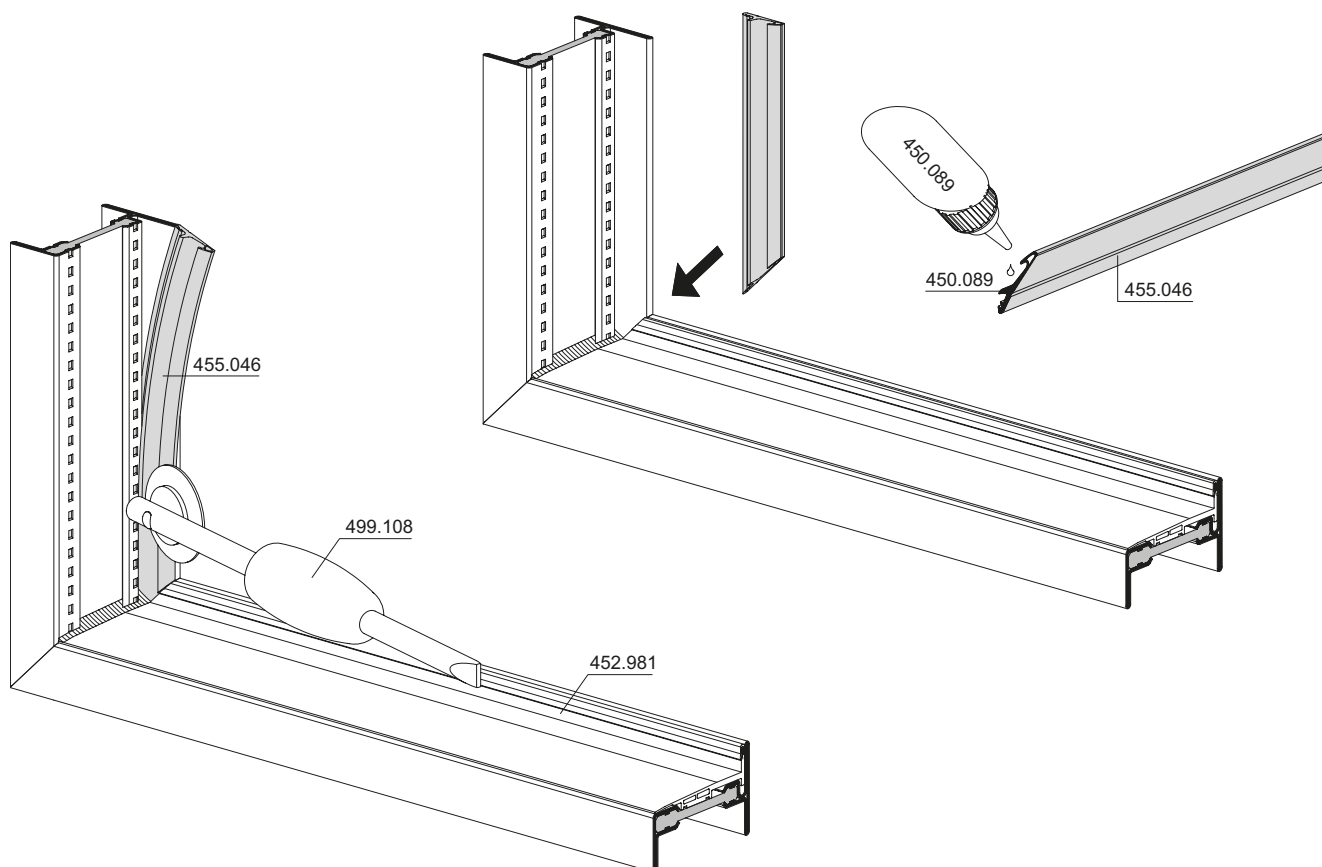
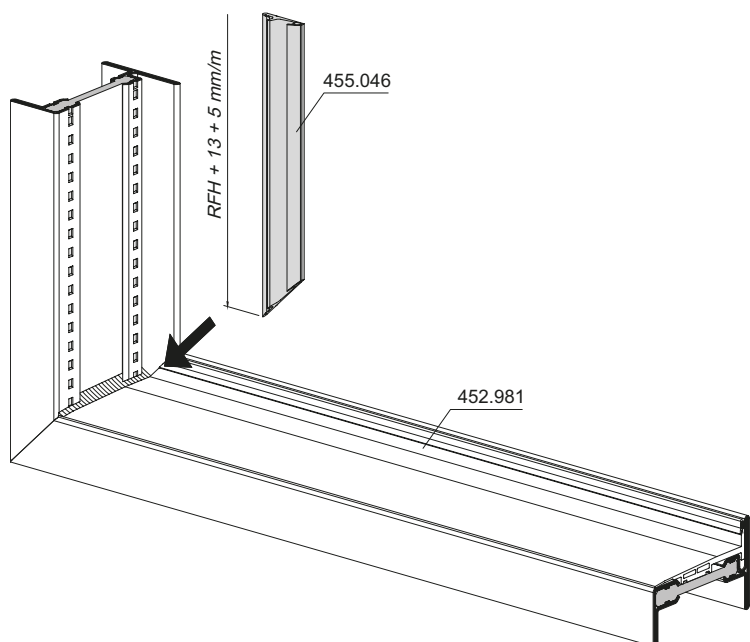
Installation drainage profile 452.981



Einbau
Anschlagdichtung 455.046

Montage
Joint de butée 455.046

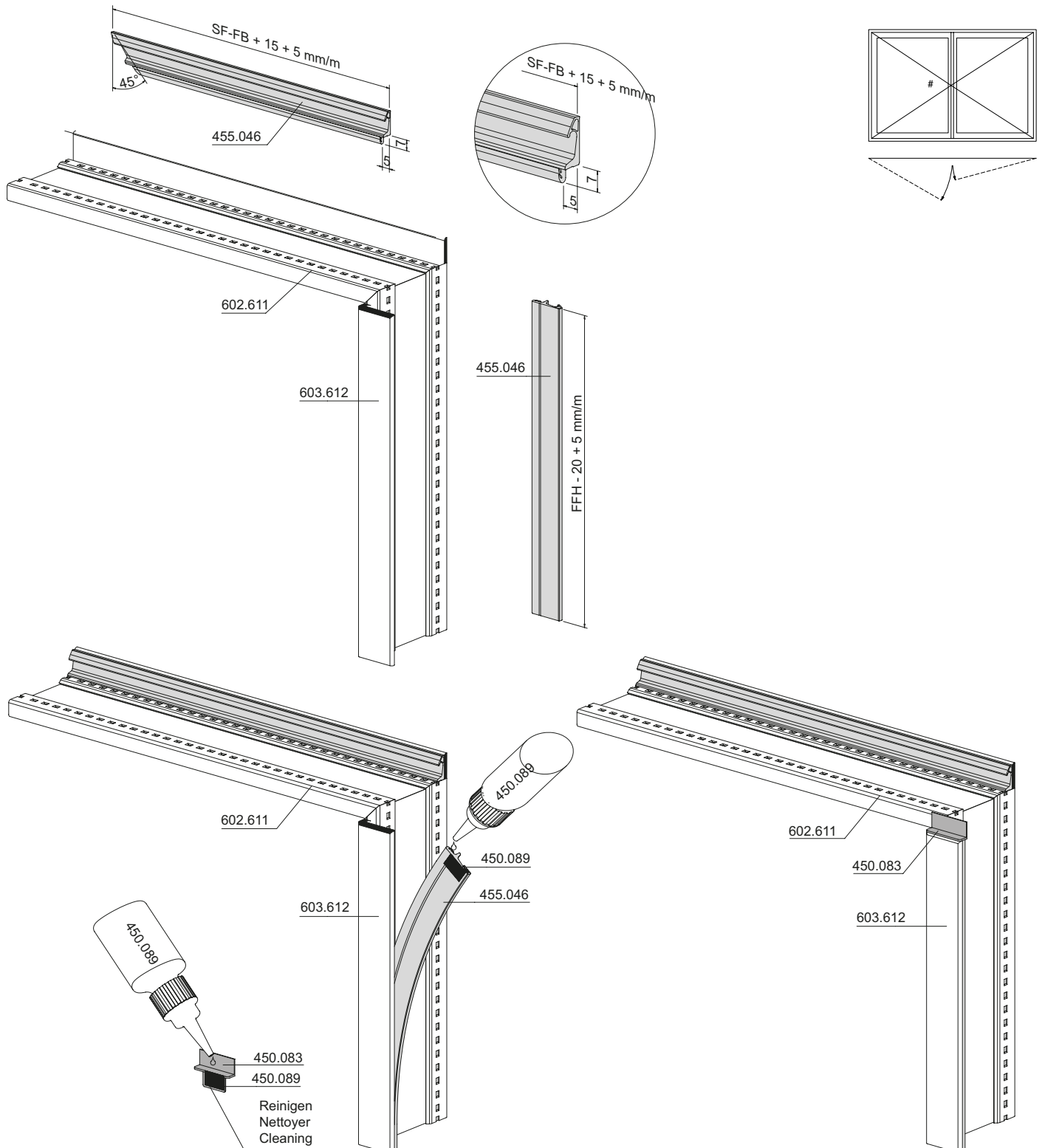
Installation
Rebate weatherstrip 455.046



Montage Flügeldichtung 455.046
Gangflügel

Montage joint de vantail 455.046
Vantail de service

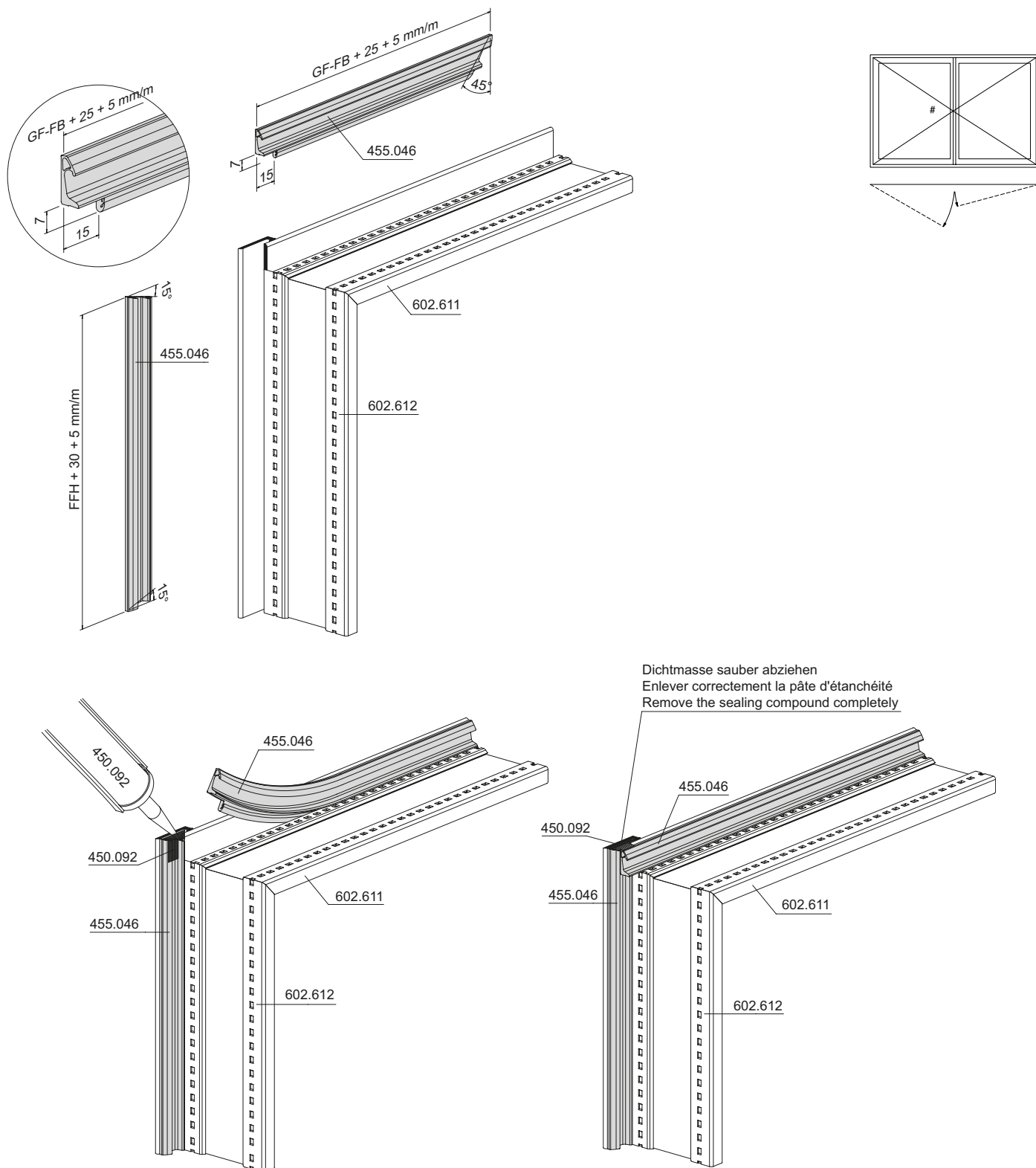
Installation of sash weatherstrip
455.046
Access sash



Montage Flügeldichtung 455.046
Standflügel

Montage joint de vantail 455.046
Vantail semi-fixe

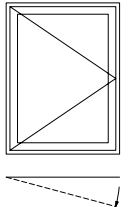
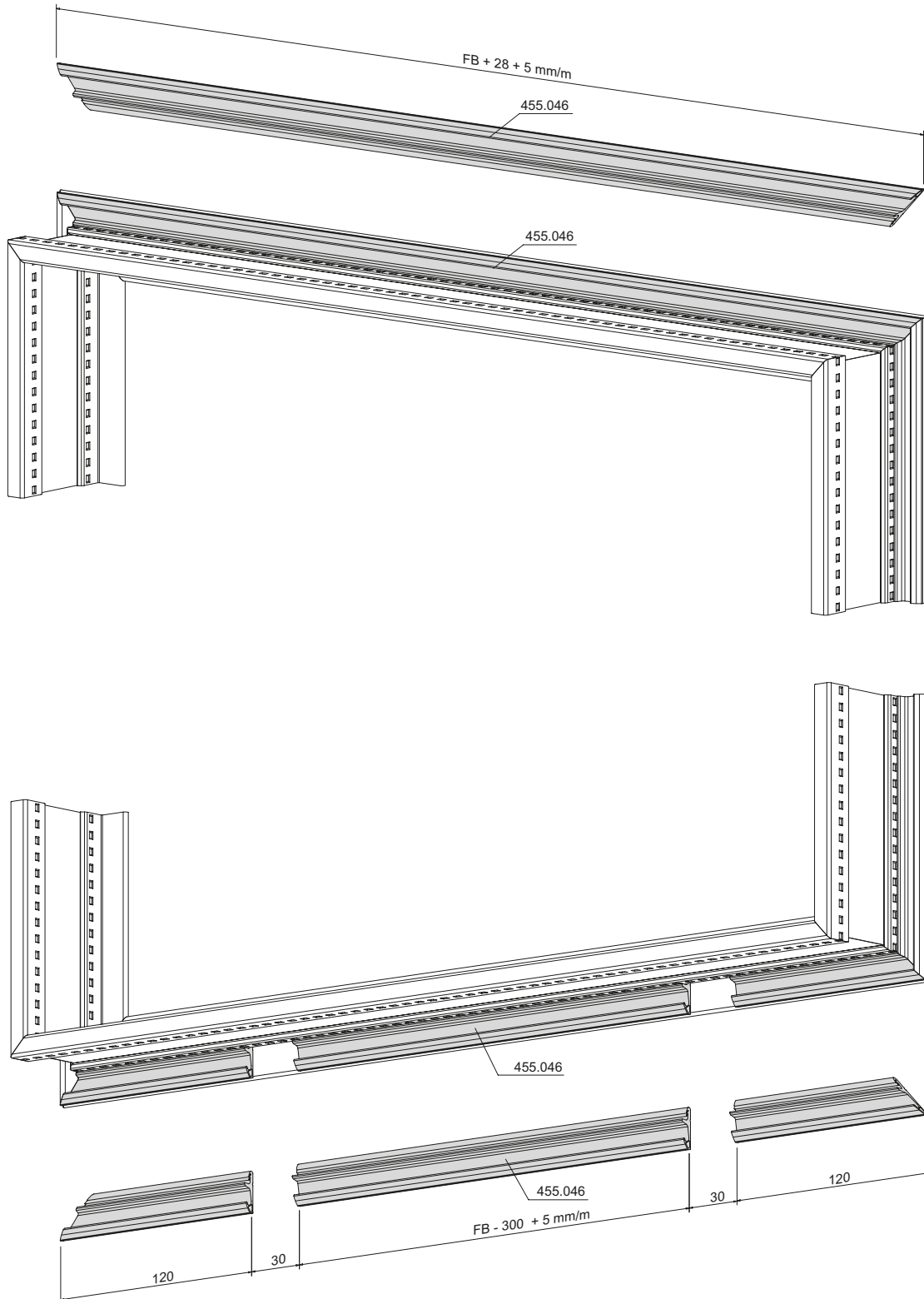
Installation of sash weatherstrip
455.046
Secondary sash



Dichtungs-Ausnehmung 455.046
Flügel

Évidement pour le joint 455.046
Vantail

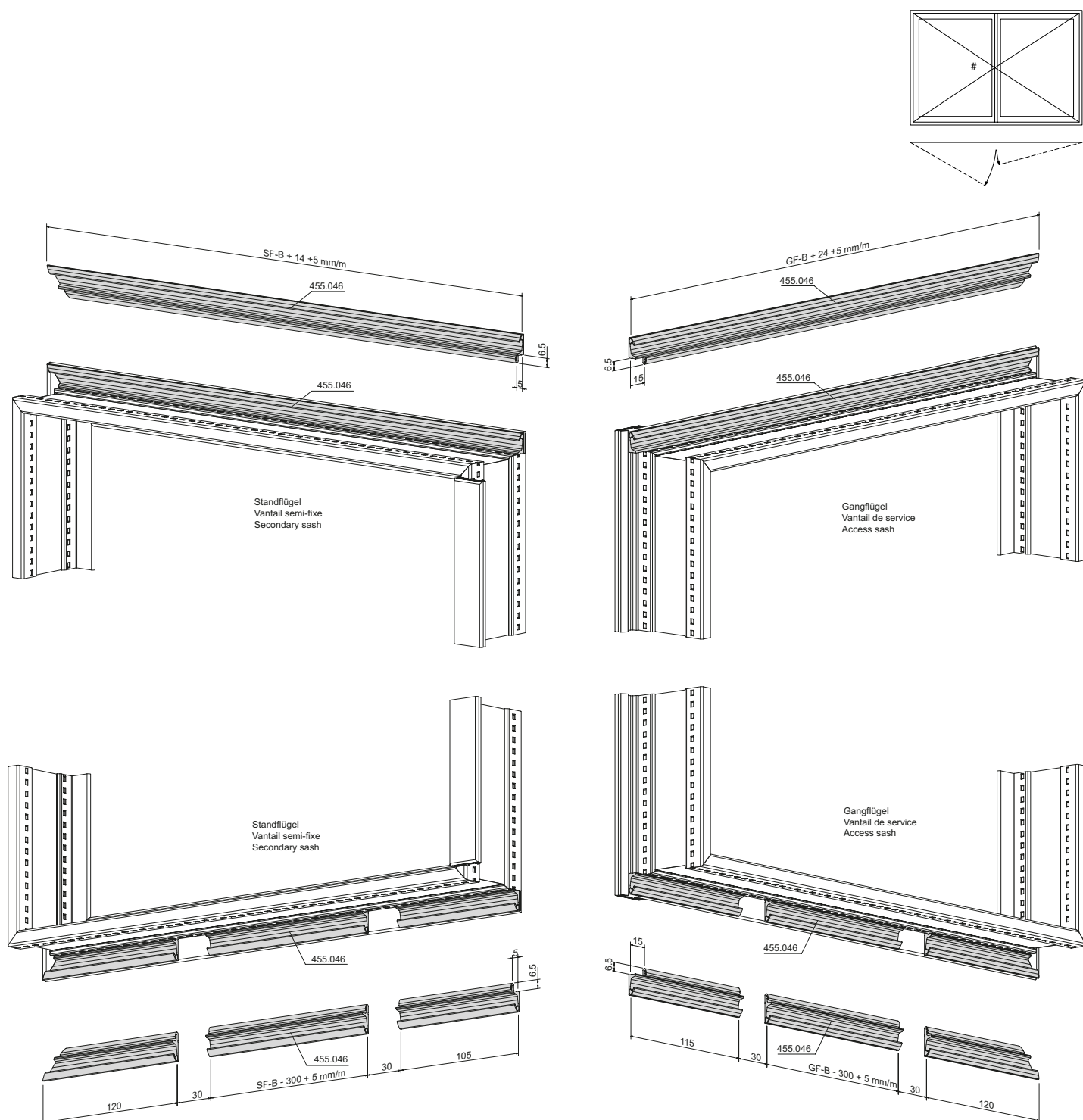
Openings in the weatherstrip 455.046
Sash



Dichtungs-Ausnehmung 455.046
Stulpfenster

Évidement pour le joint 455.046
Fenêtre à deux vantaux

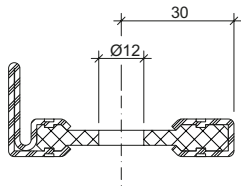
Openings in the weatherstrip 455.046
Double-sash window



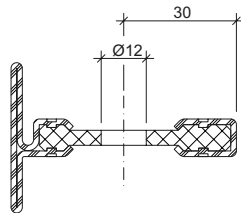
Glasfalzbelüftung
Festverglasung unten

Ventilation feuillure de verre
Vitrage fixe en bas

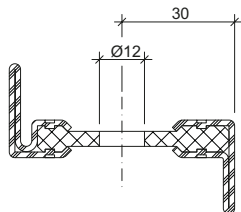
Glazing rebate ventilation
Fixed glazing bottom



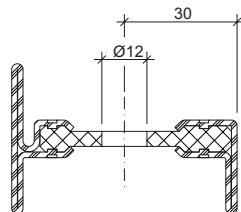
601.611 Z



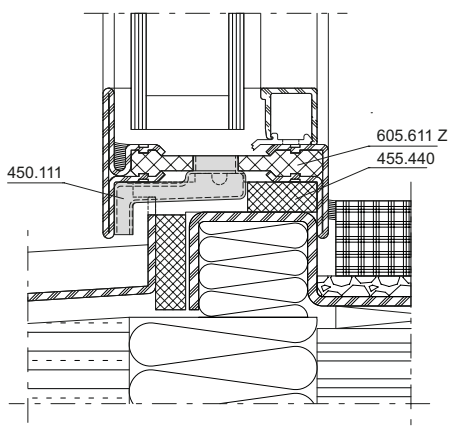
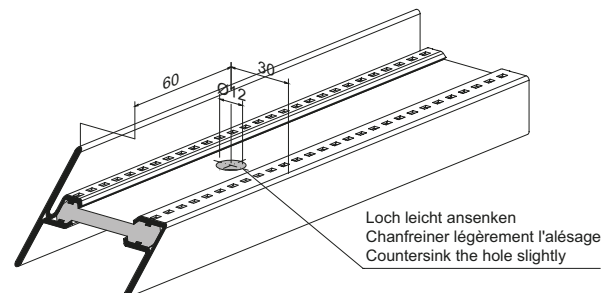
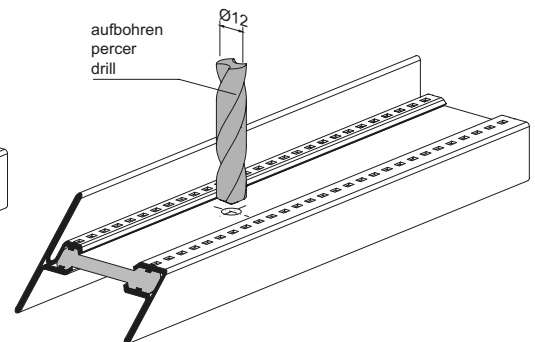
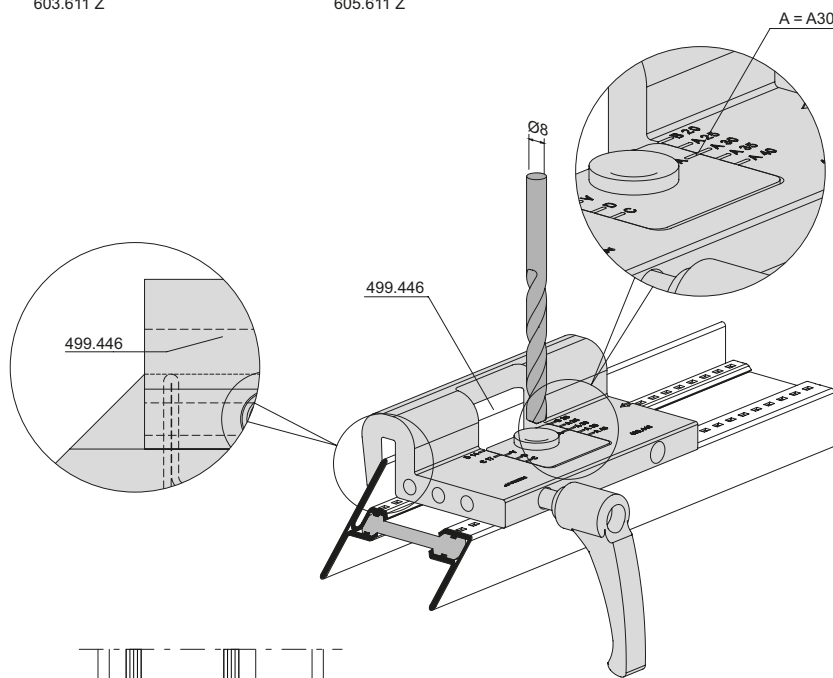
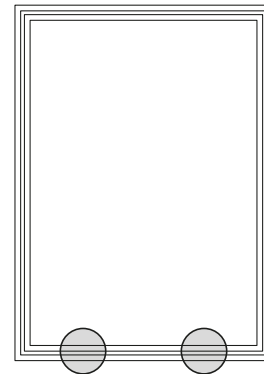
602.611 Z



603.611 Z



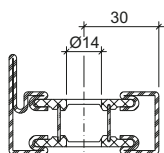
605.611 Z



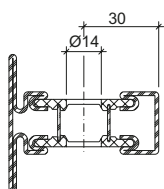
Glasfalzbelüftung
Festverglasung unten

Ventilation feuillure de verre
Vitrage fixe en bas

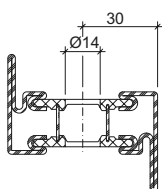
Glazing rebate ventilation
Fixed glazing bottom



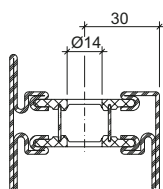
601.615 Z



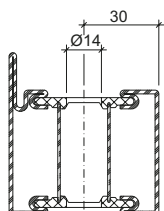
602.615 Z



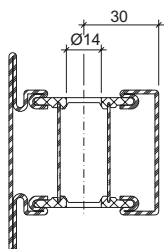
603.615 Z



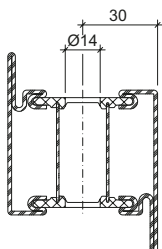
605.615 Z



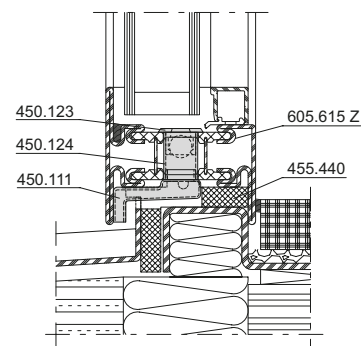
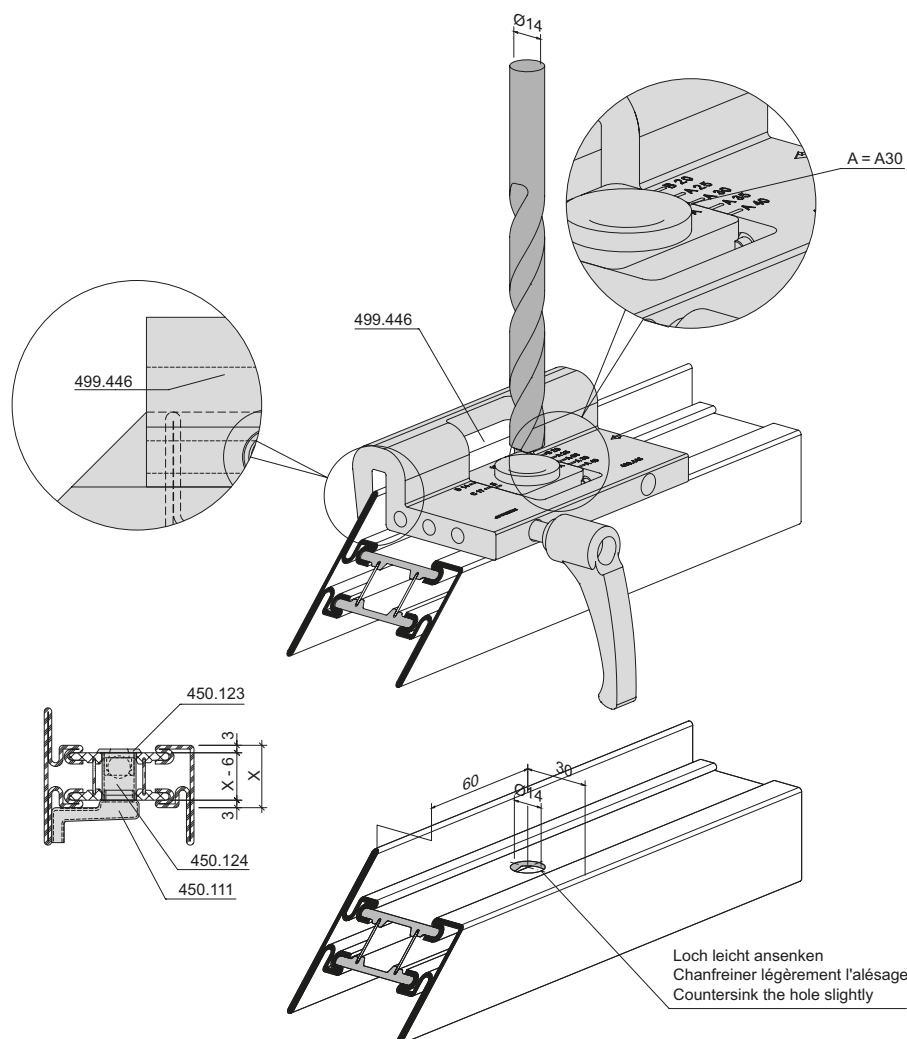
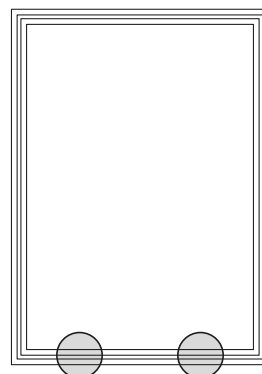
601.616 Z



602.616 Z



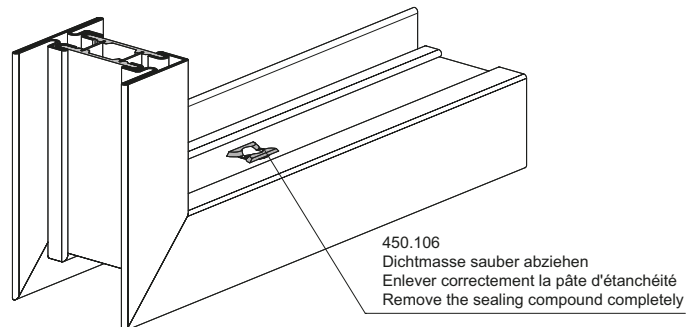
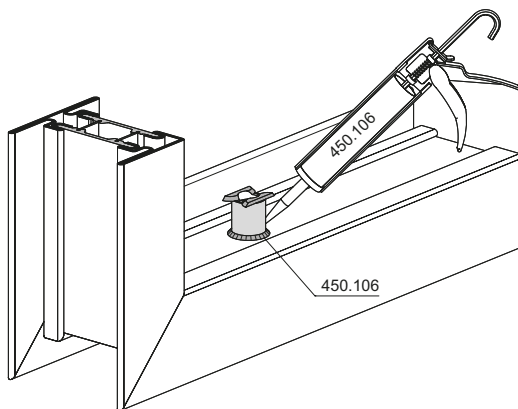
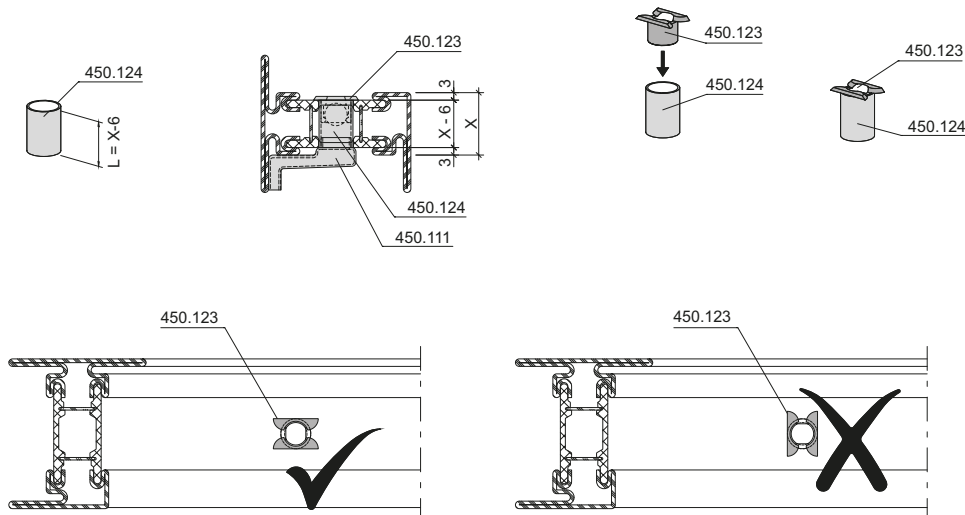
603.616 Z



Glasfalzbelüftung
Festverglasung unten

Ventilation feuillure de verre
Vitrage fixe en bas

Glazing rebate ventilation
Fixed glazing bottom



Für eine bessere Verarbeitung und Dosierung der Dichtmasse 450.106 empfehlen wir die Verwendung des Artikels 450.109.

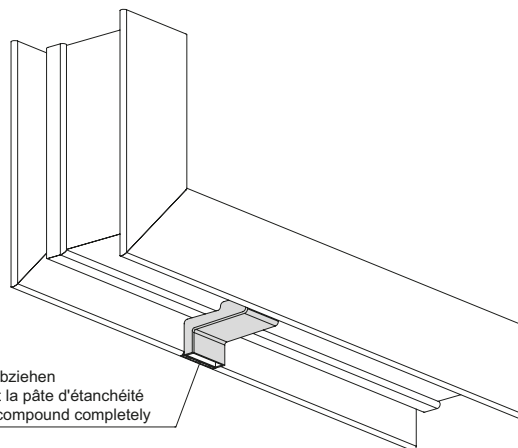
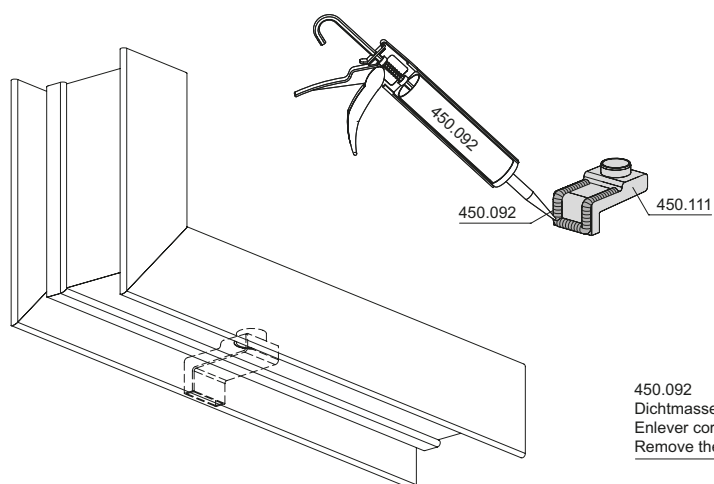
Pour un meilleur usinage et dosage de la pâte d'étanchéité 450.106, nous vous recommandons d'utiliser l'article 450.109.

To improve processing and dosing of the sealing compound 450.106, we recommend using item 450.109.

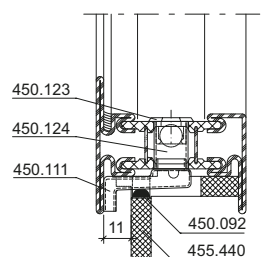
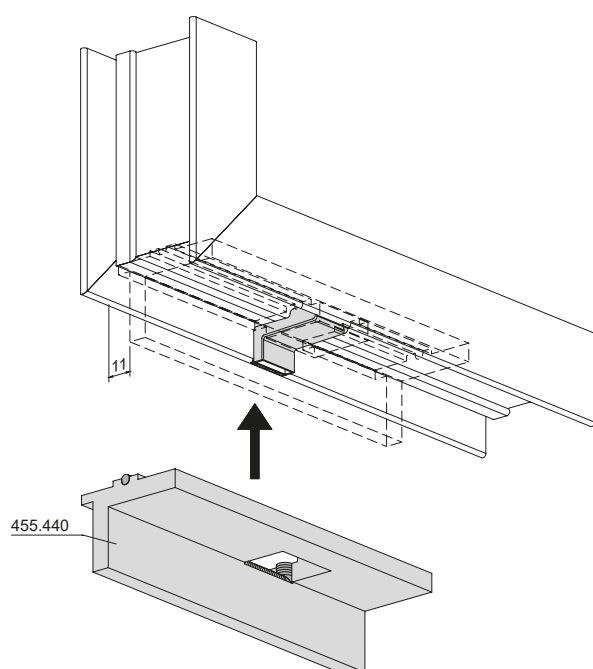
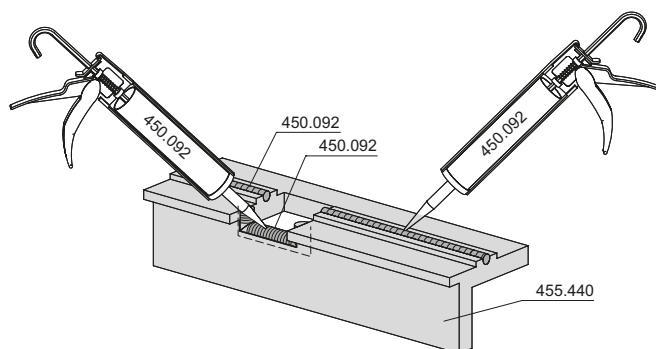
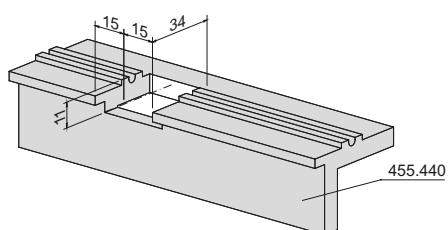
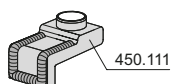
Glasfalzbelüftung
Festverglasung unten

Ventilation feuillure de verre
Vitrage fixe en bas

Glazing rebate ventilation
Fixed glazing bottom



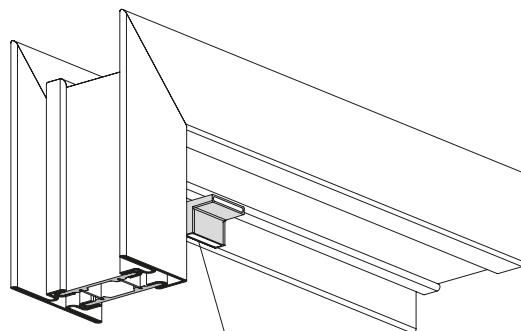
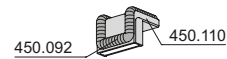
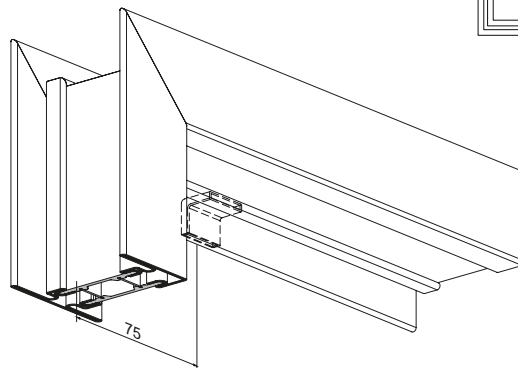
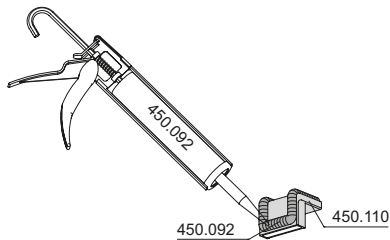
450.092
Dichtmasse sauber abziehen
Enlever correctement la pâte d'étanchéité
Remove the sealing compound completely



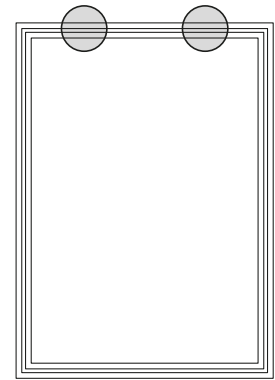
Glasfalzbelüftung
Festverglasung oben

Ventilation feuillure de verre
Vitrage fixe en haut

Glazing rebate ventilation
Fixed glazing top



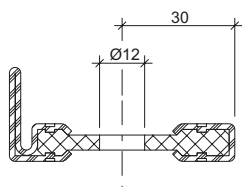
450.092
Dichtmasse sauber abziehen
Enlever correctement la pâte d'étanchéité
Remove the sealing compound completely



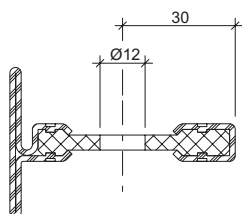
Glasfalzbelüftung
Festverglasung und Sockel

Ventilation feuillure de verre
Vitrage fixe en et socle

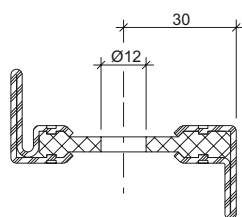
Glazing rebate ventilation
Fixed glazing and socle



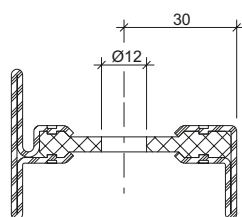
601.611 Z



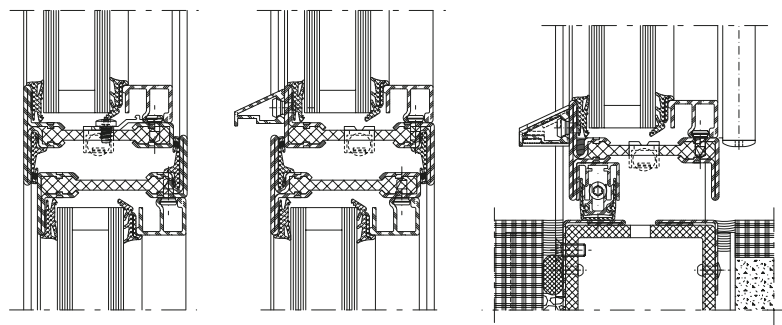
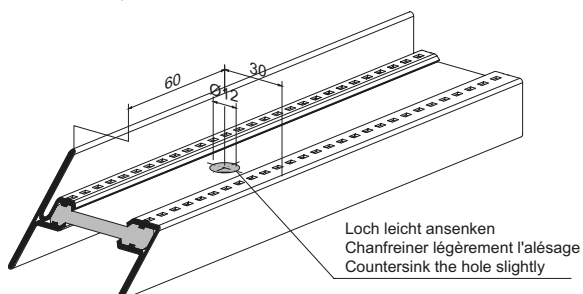
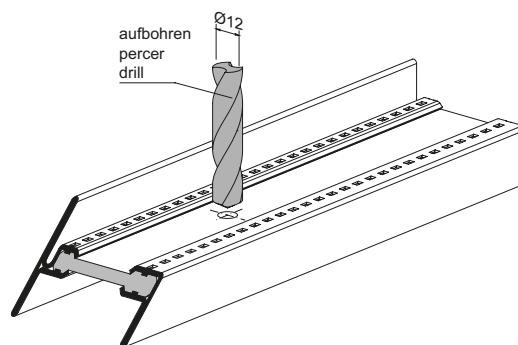
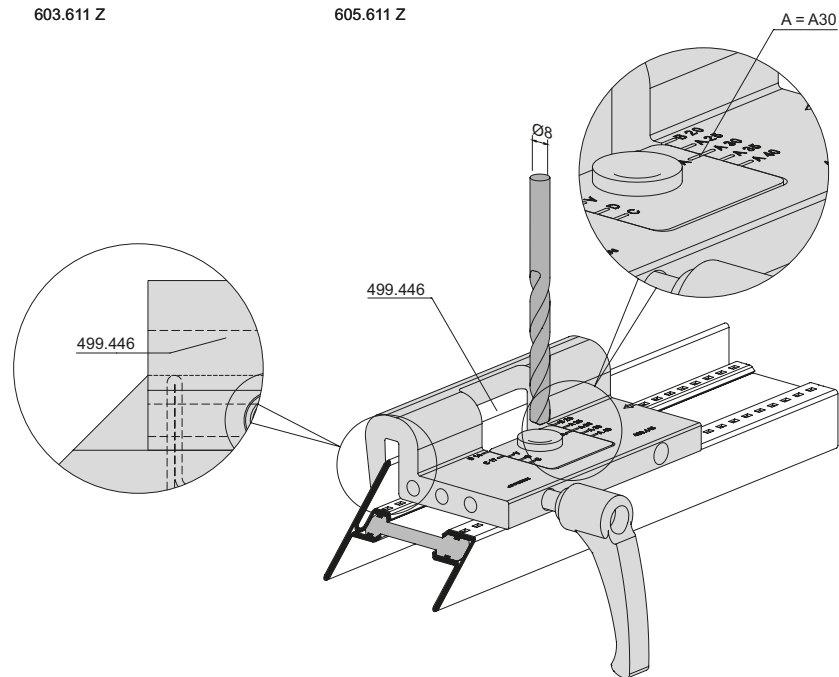
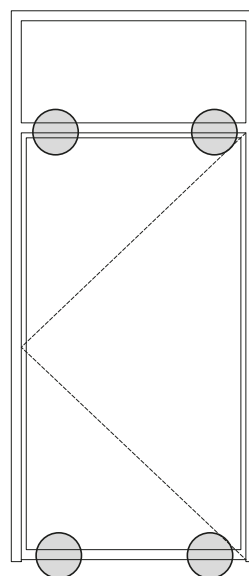
602.611 Z



603.611 Z



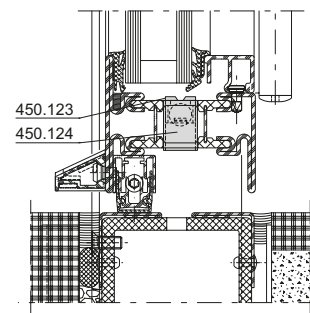
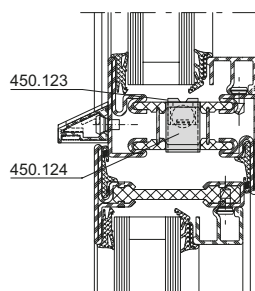
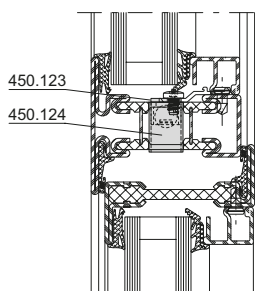
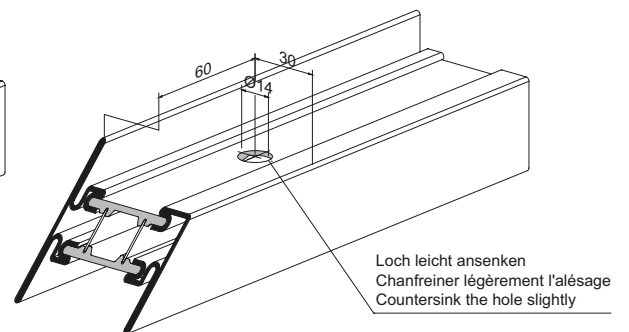
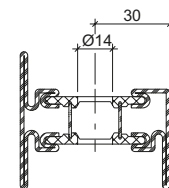
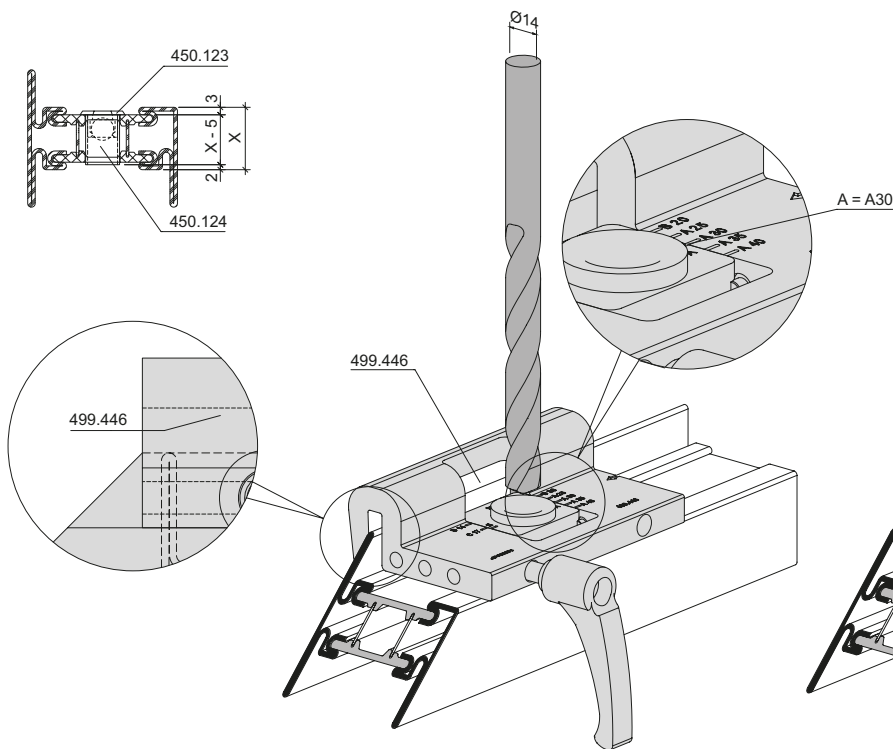
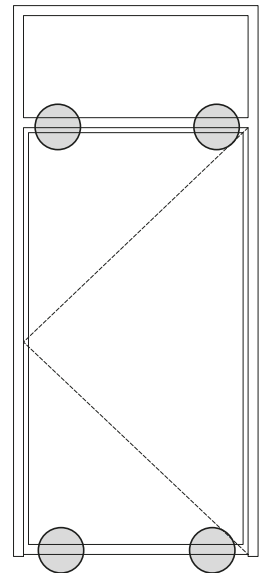
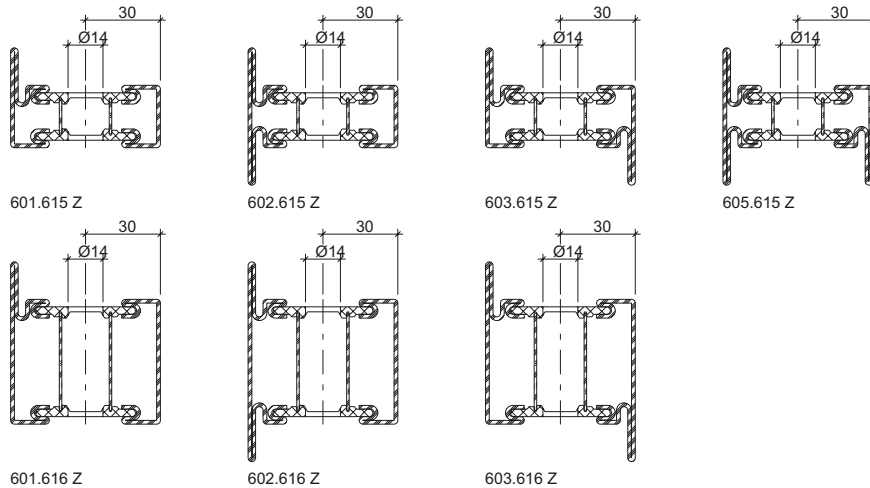
605.611 Z



Glasfalzbelüftung
Festverglasung und Sockel

Ventilation feuillure de verre
Vitrage fixe en et socle

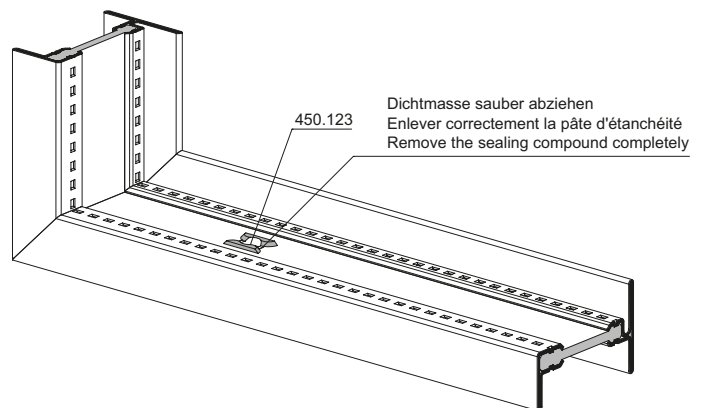
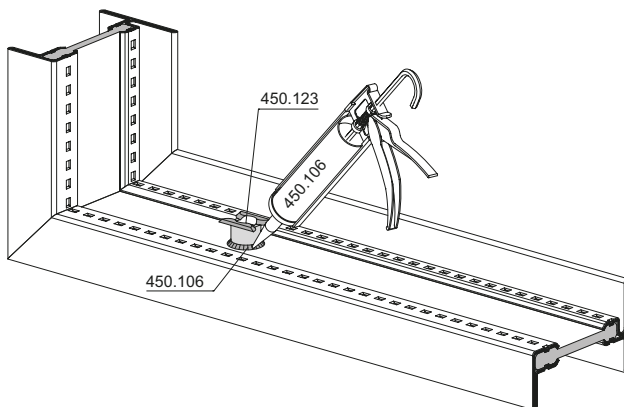
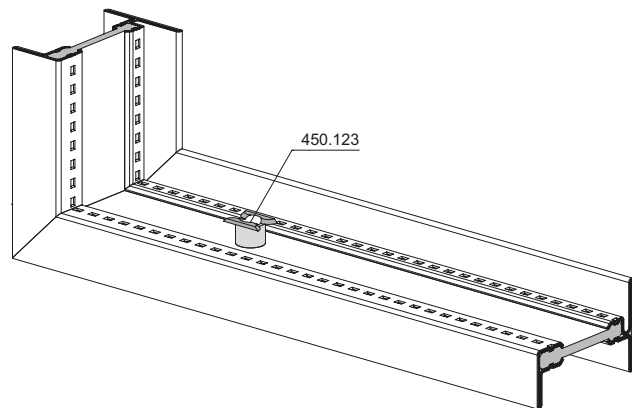
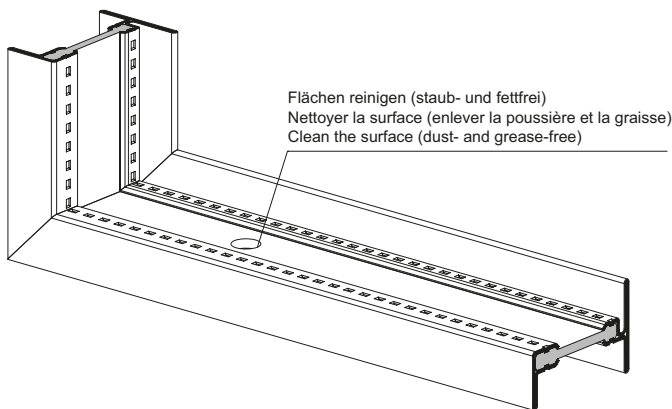
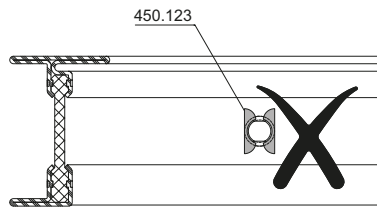
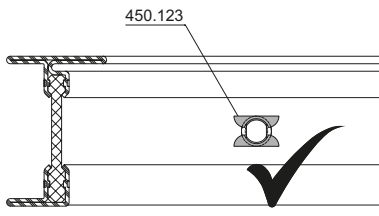
Glazing rebate ventilation
Fixed glazing and socle



Glasfalzbelüftung
Festverglasung und Sockel

Ventilation feuillure de verre
Vitrage fixe en et socle

Glazing rebate ventilation
Fixed glazing and socle



Für eine bessere Verarbeitung und Dosierung der Dichtmasse 450.106 empfehlen wir die Verwendung des Artikels 450.109.

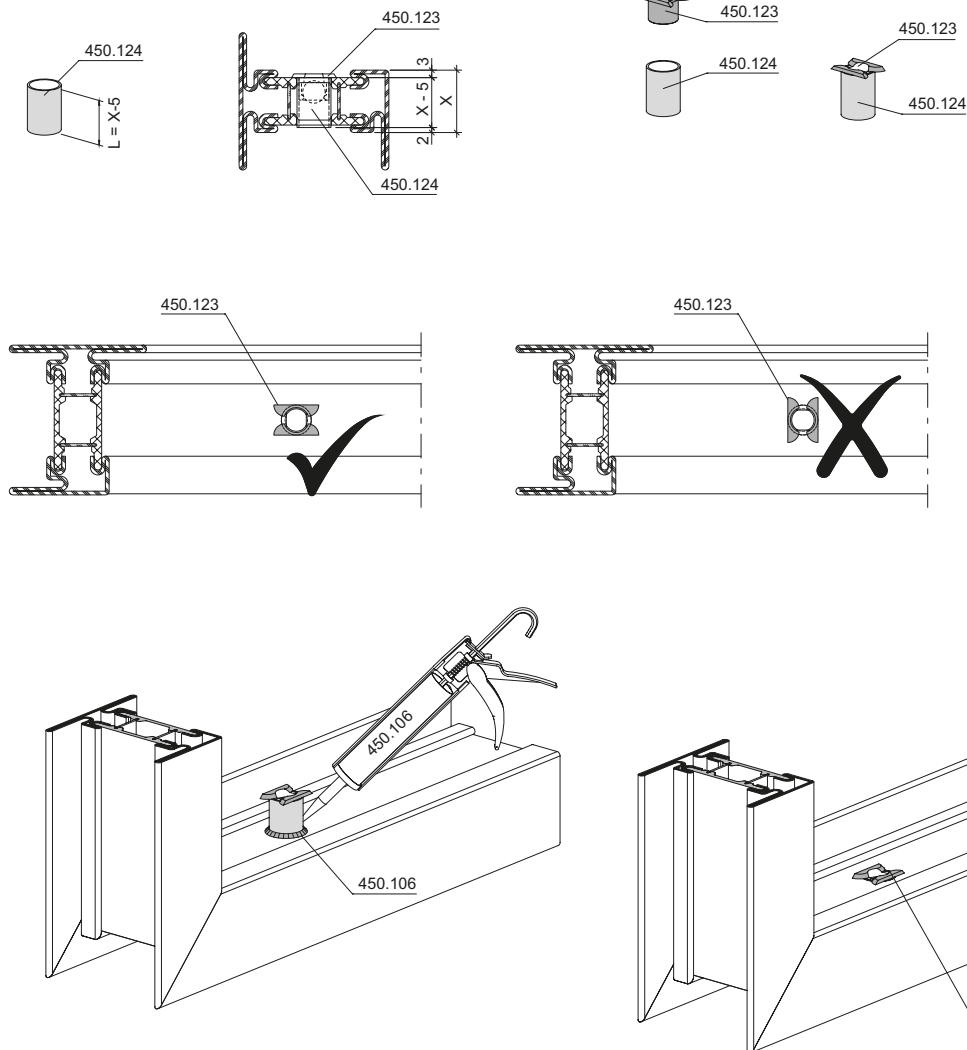
Pour un meilleur usinage et dosage de la pâte d'étanchéité 450.106, nous vous recommandons d'utiliser l'article 450.109.

To improve processing and dosing of the sealing compound 450.106, we recommend using item 450.109.

Glasfalzbelüftung
Festverglasung und Sockel

Ventilation feuillure de verre
Vitrage fixe en et socle

Glazing rebate ventilation
Fixed glazing and socle



Für eine bessere Verarbeitung und Dosierung der Dichtmasse 450.106 empfehlen wir die Verwendung des Artikels 450.109.

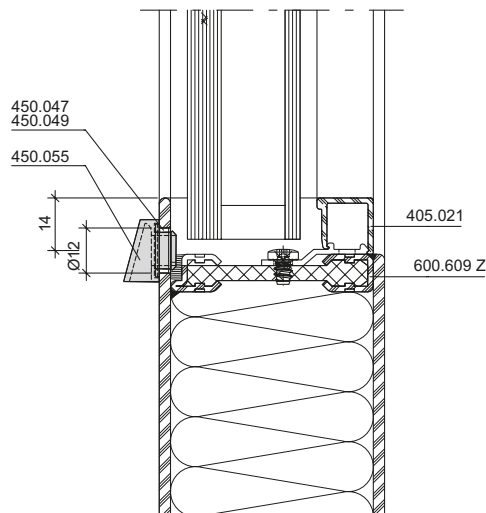
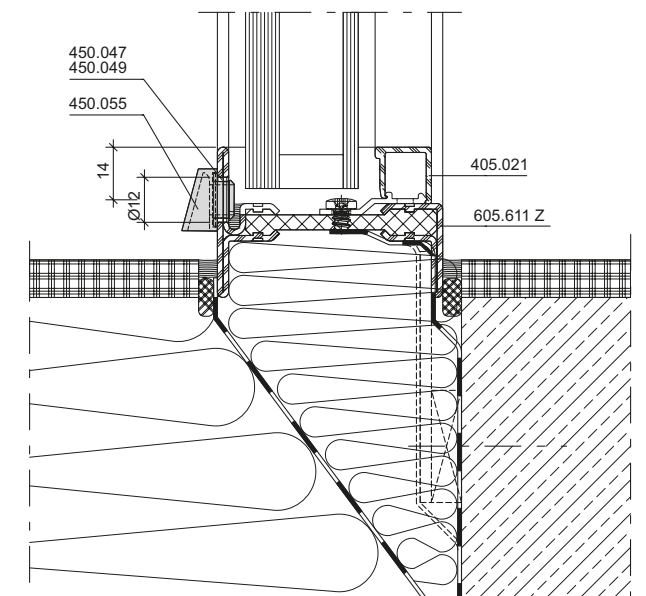
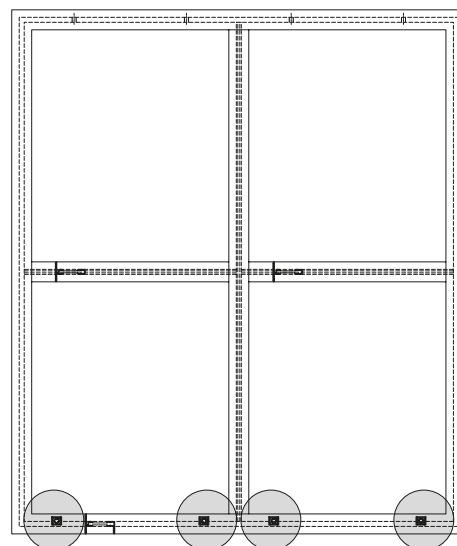
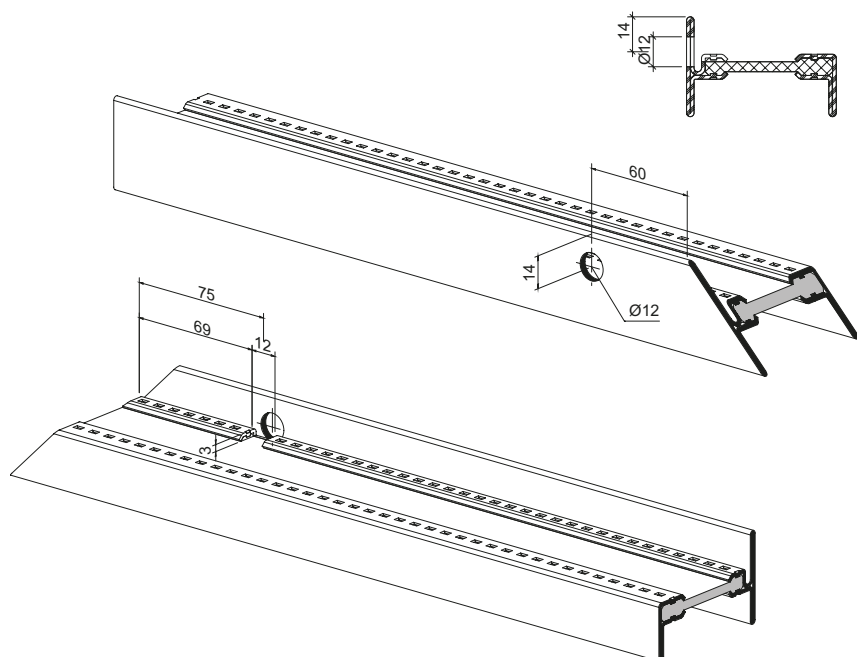
Pour un meilleur usinage et dosage de la pâte d'étanchéité 450.106, nous vous recommandons d'utiliser l'article 450.109.

To improve processing and dosing of the sealing compound 450.106, we recommend using item 450.109.

Alternative Belüftung mit
450.047 / 450.049 und 450.055
(keine CE-Kennzeichnung)

Ventilation alternative avec
450.047 / 450.049 et 450.055
(pas de marquage CE)

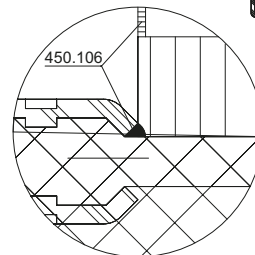
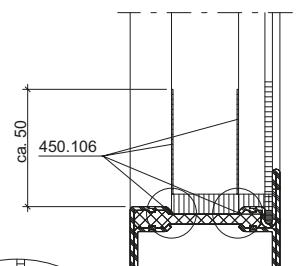
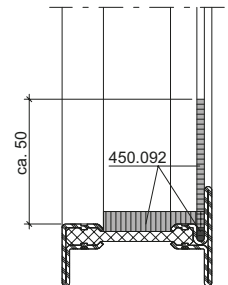
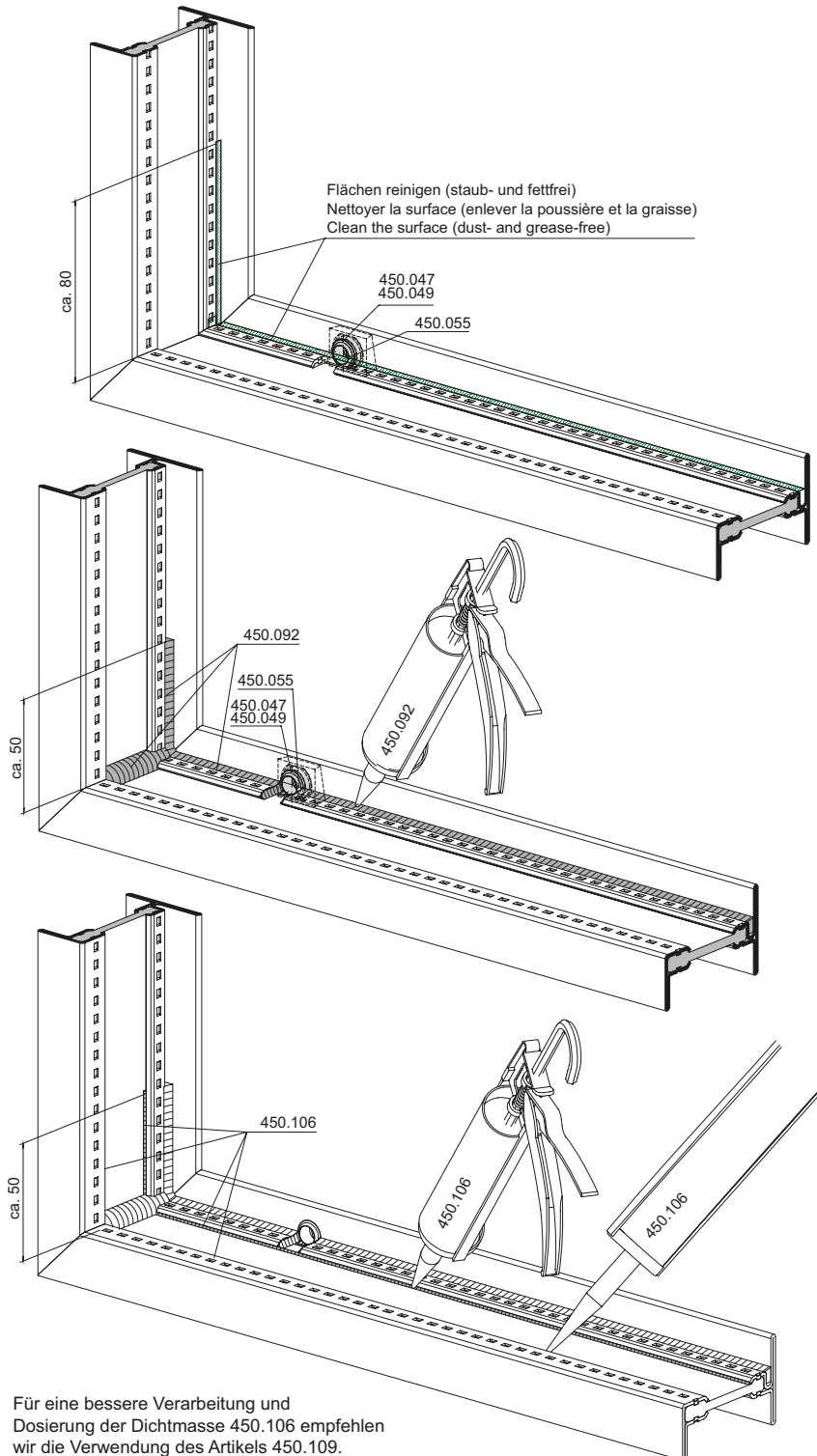
Alternative ventilation with
450.047 / 450.049 and 450.055
(no CE marking)



Abdichtungen für Belüftung mit
450.047 / 450.049

Étanchéités pour ventilation avec
450.047 / 450.049

Ventilation seals with
450.047 / 450.049



Für eine bessere Verarbeitung und Dosierung der Dichtmasse 450.106 empfehlen wir die Verwendung des Artikels 450.109.

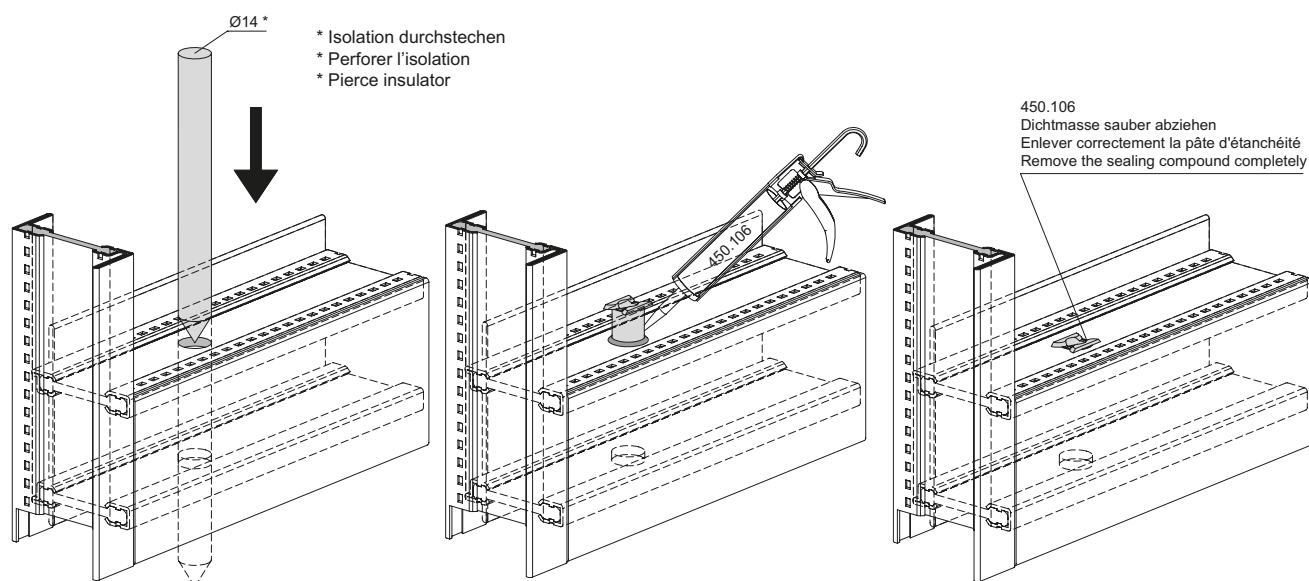
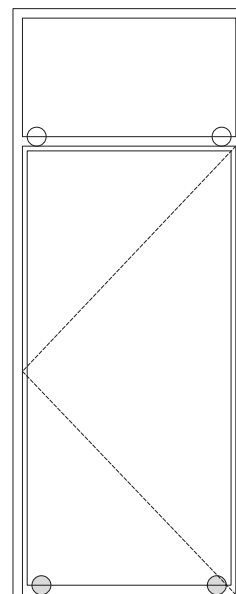
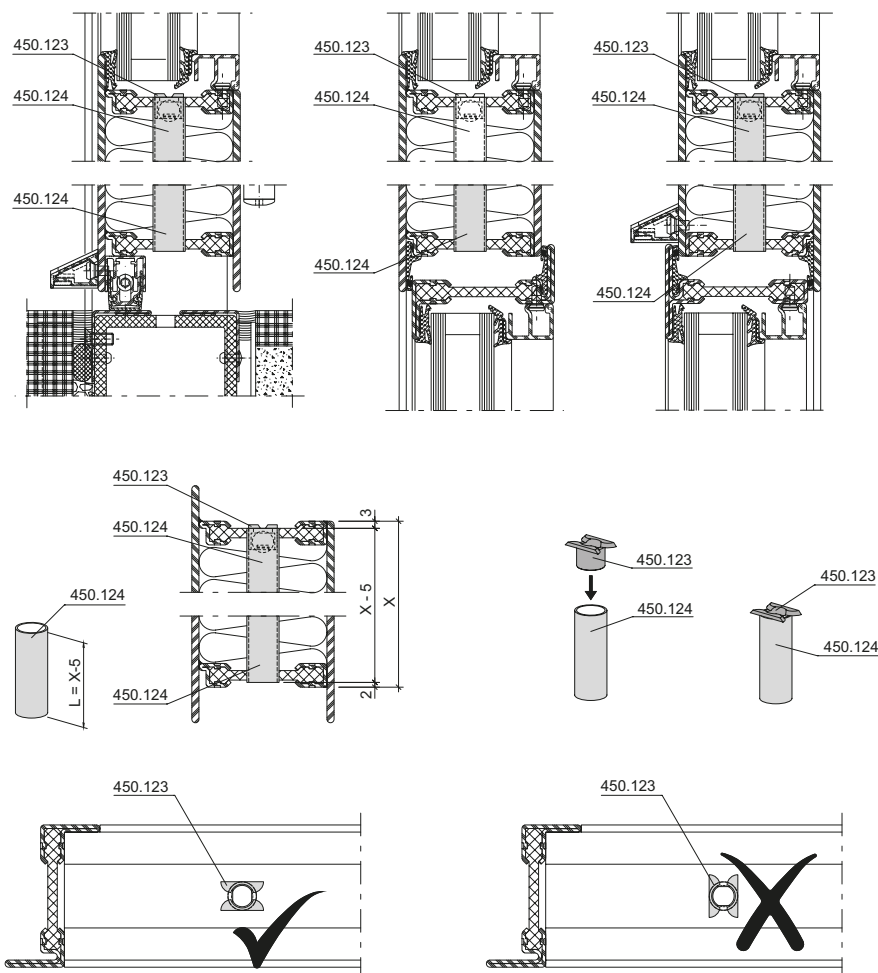
Pour un meilleur usinage et dosage de la pâte d'étanchéité 450.106, nous vous recommandons d'utiliser l'article 450.109.

To improve processing and dosing of the sealing compound 450.106, we recommend using item 450.109.

Blechsockel/Kämpfer mit
450.123 und 450.124

Socle en tôle/traverse avec
450.123 et 450.124

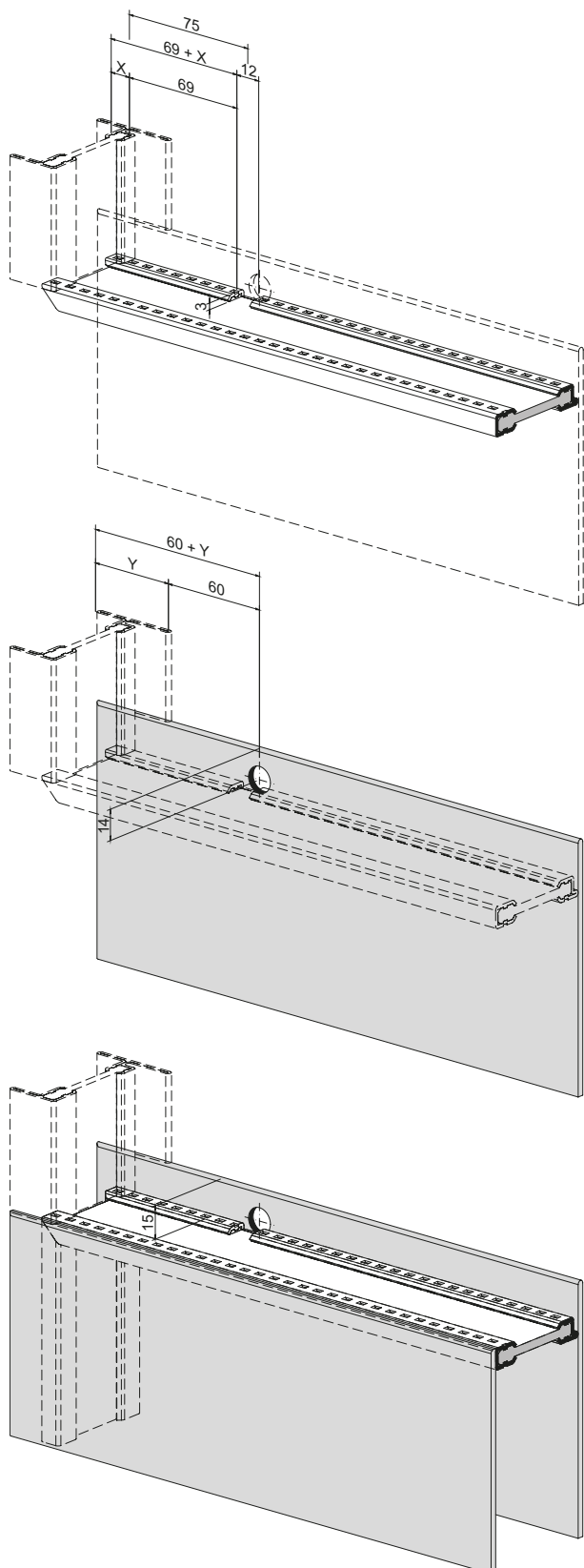
Metal base/crossbar with
450.123 and 450.124



Alternative Belüftung mit
450.047/450.049 und 450.055
(keine CE-Kennzeichnung)

Ventilation alternative avec
450.047 / 450.049 et 450.055
(pas de marquage CE)

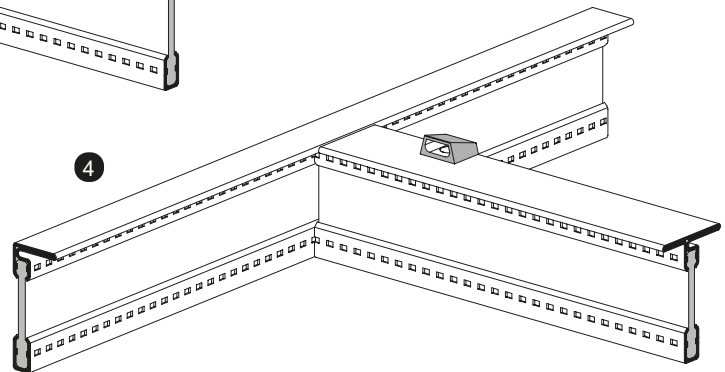
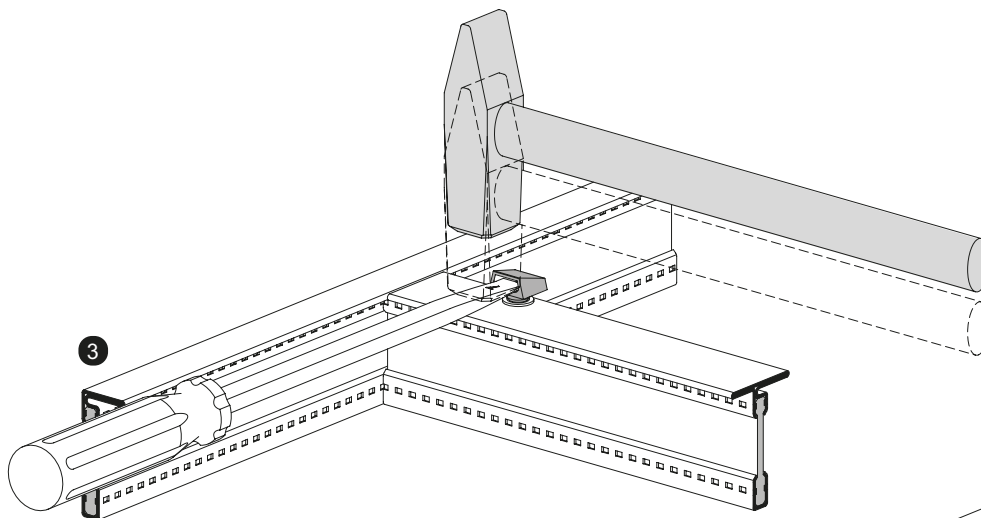
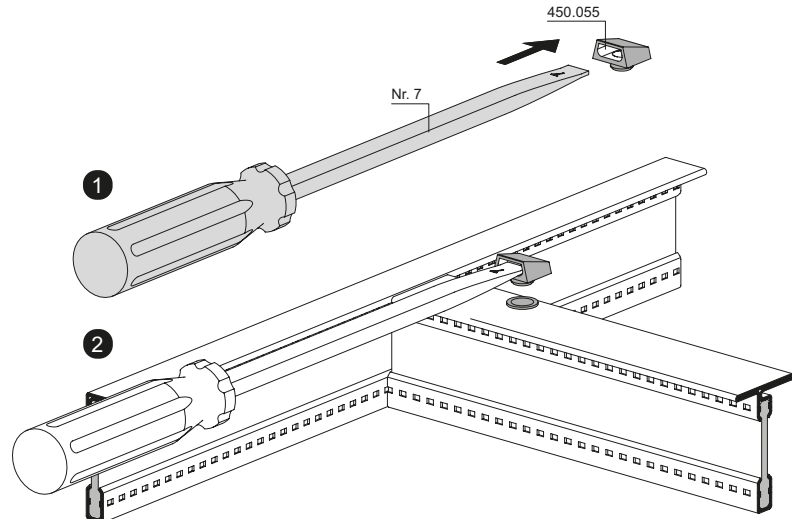
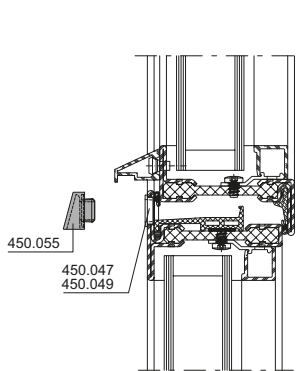
Alternative ventilation with
450.047 / 450.049 and 450.055
(no CE marking)



Einbau Abdeckkappe 450.055

Montage du capuchon 450.055

Installation of cover cap 450.055



1. Abdeckkappe 450.055 auf Schraubenzieher Gr. 7 stecken.
2. Abdeckkappe sauber mit Schraubenzieher auf Entwässerungsstüle 450.047/049 platzieren.
3. Mit dem Hammer einen Schlag auf den Schraubenzieher geben.
4. Sitz der Abdeckkappe auf der Entwässerungsstüle kontrollieren.

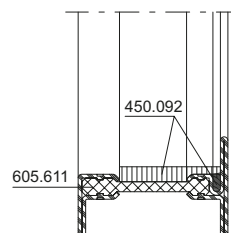
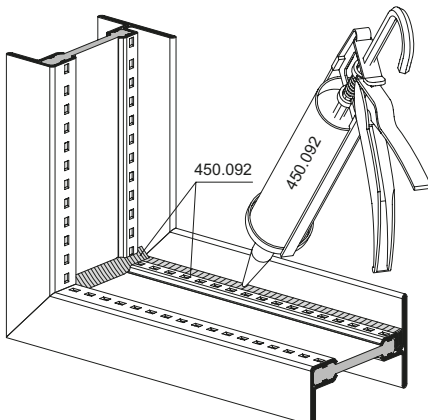
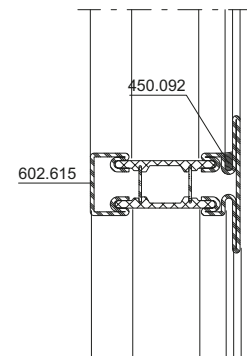
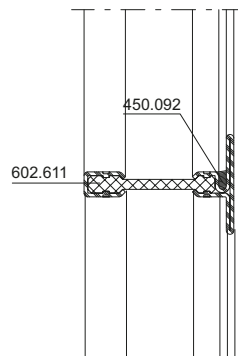
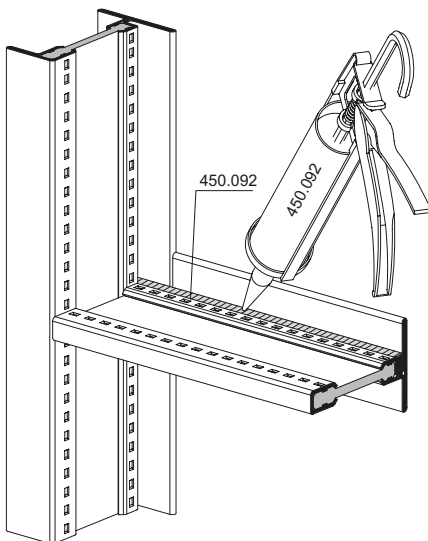
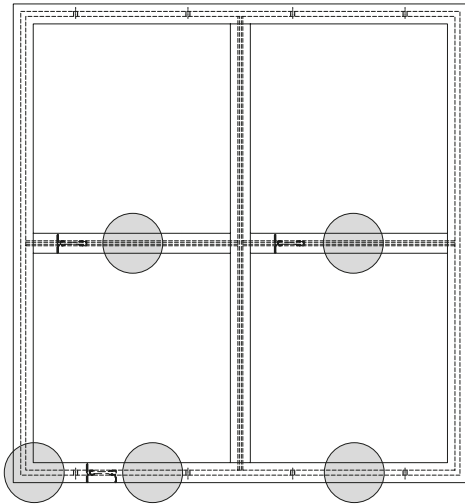
1. Ficher le capuchon 450.055 sur le tournevis de taille 7.
2. Placer le capuchon correctement avec le tournevis sur la douille d'évacuation 450.047/049.
3. Frapper le tournevis avec le marteau.
4. Contrôler l'emplacement du capuchon sur la douille d'évacuation.

1. Place cover cap 450.055 on size 7 screwdriver
2. Cleanly place cover cap with screwdriver on drainage spout 450.047/049.
3. Using the hammer, hit the screwdriver once.
4. Check the position of the cover cap on the drainage spout.

Abdichtung bei nach
oben liegender Dichtungsnute

Étanchéification quand la rainure
d'étanchéité est orientée vers le
haut

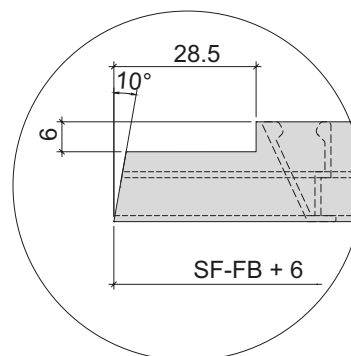
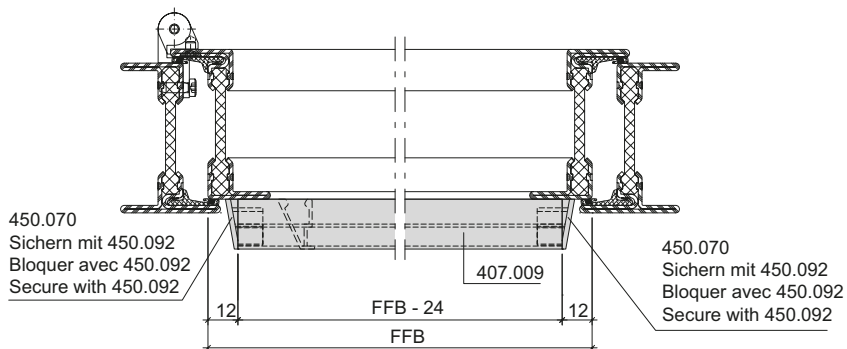
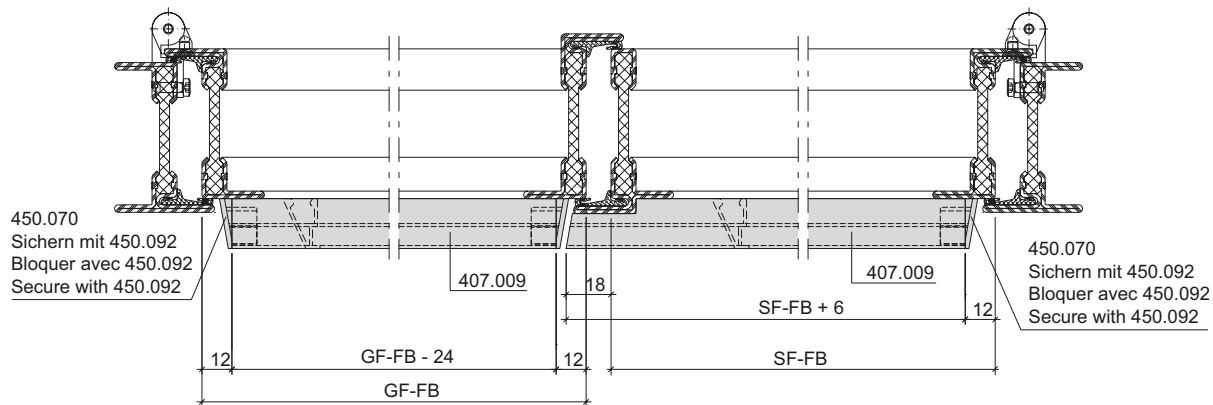
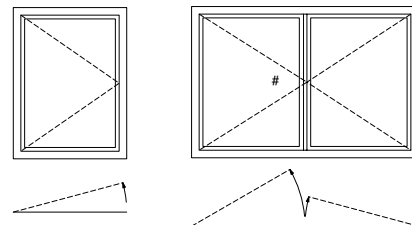
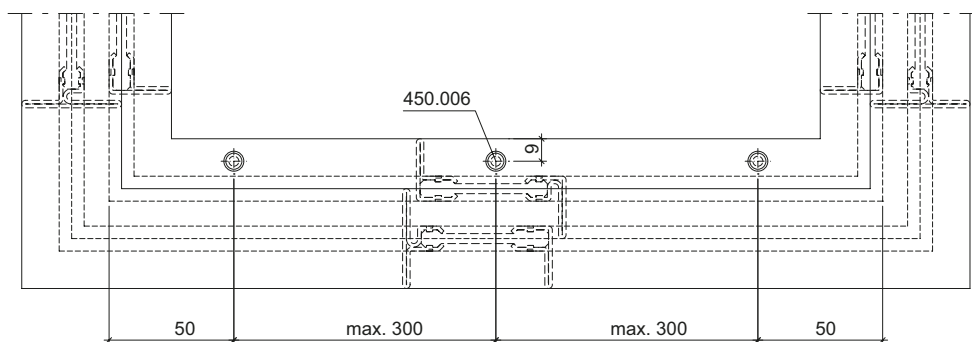
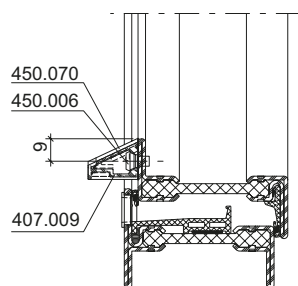
Sealing for upper weatherstrip
grooves



Einbau Wetterschenkel 407.009

Montage renvoi d'eau 407.009

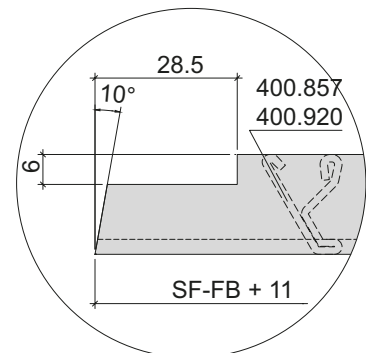
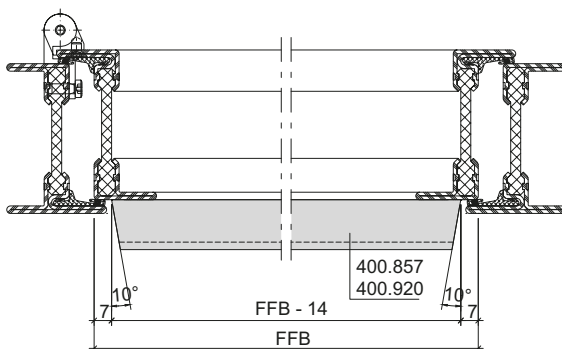
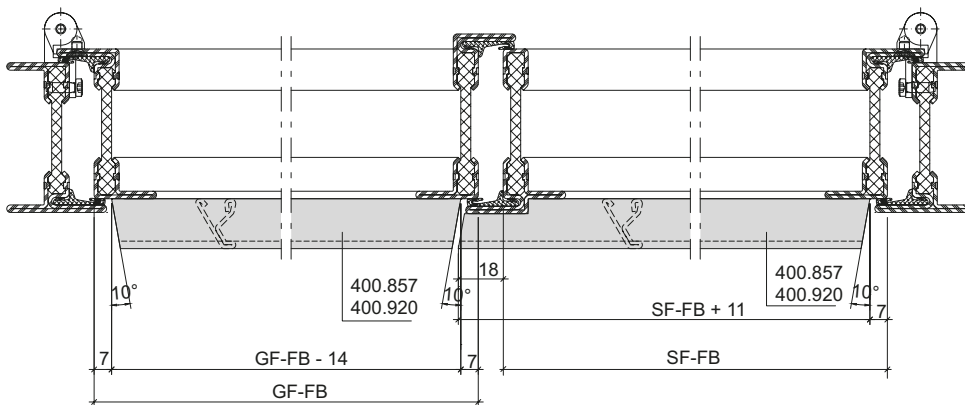
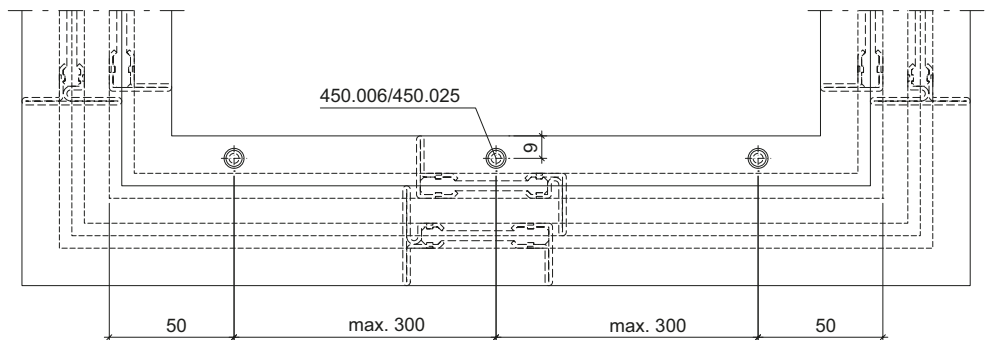
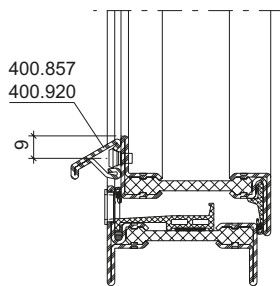
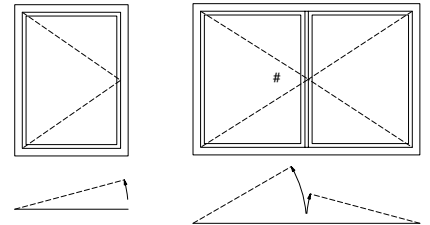
Installation weatherbar 407.009



Einbau Wetterschenkel
400.857/400.920

Montage renvoi d'eau
400.857/400.920

Installation weatherbar
400.857/400.920



Abdeckband 451.057

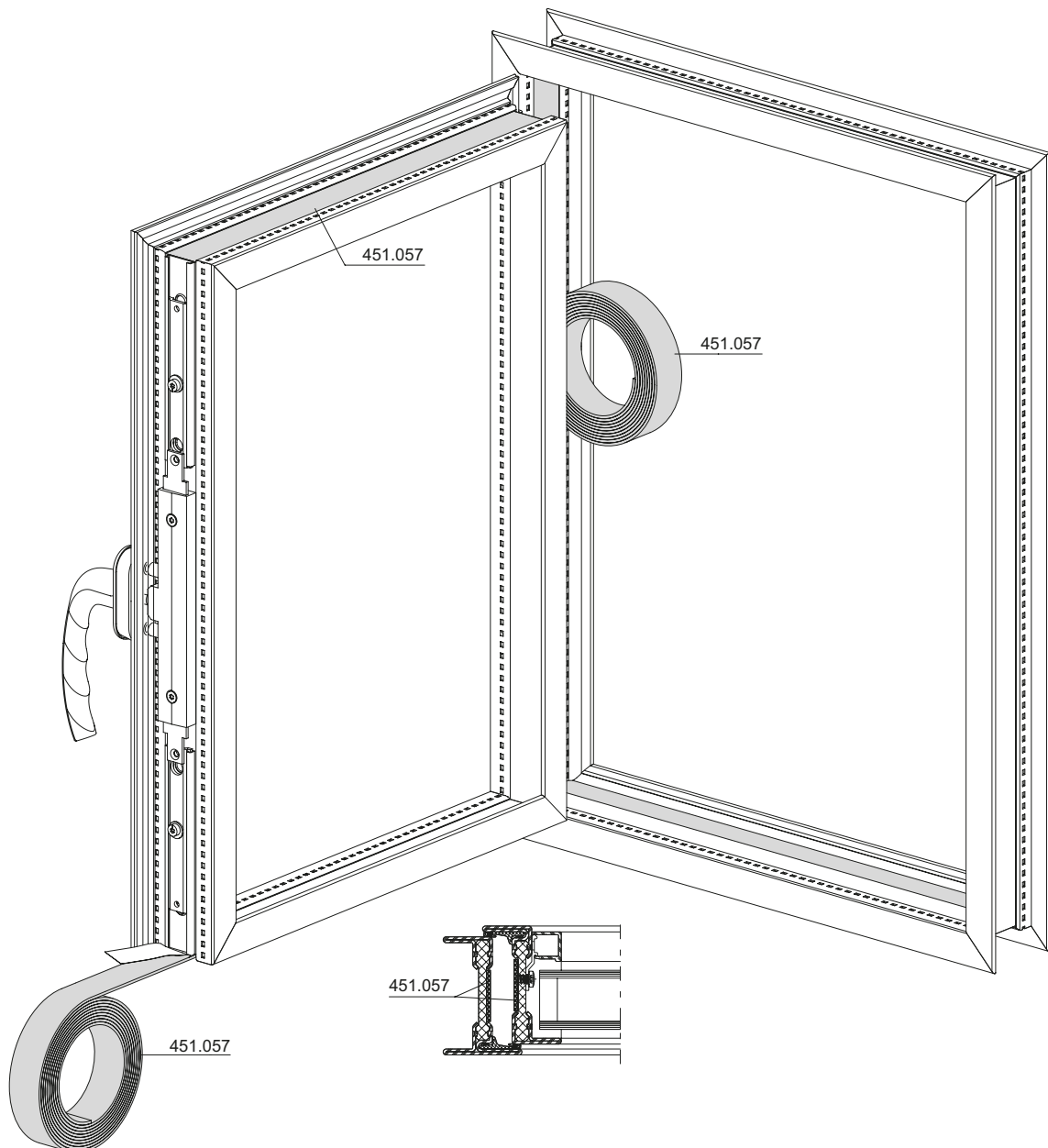
- Das Abdeckband darf erst nach der Oberflächenbehandlung am fertigen Element aufgebracht werden.
- Der Isolator muss trocken, staub-, öl- und fettfrei sein.
- Band direkt von der Rolle aufbringen. Schutzpapier sorgfältig abziehen.
- Band nicht in gestrecktem Zustand aufbringen.
- Abdeckband in den Ecken gestossen.
- Belüftungslöcher freistellen.

Bande de recouvrement 451.057

- La bande de recouvrement ne doit être appliqué sur l'élément fini qu'après traitement de surface
- L'isolateur doit être sec, exempt de poussière, d'huile et de graisse.
- Appliquer la bande directement à partir du rouleau. Retirer soigneusement le papier protecteur.
- Ne pas appliquer la bande en état étiré.
- Rectifier les joints dans les angles.
- Dégager les orifices de ventilation.

Cover tape 451.057

- The cover tape must be applied to the finished element only after surface treatment is complete.
- The insulator must be dry and free from dust, oil and grease.
- Apply the strip straight from the roll. Remove the protective paper carefully.
- Do not stretch the strip while applying.
- Join in the corners.
- Free up ventilation holes.



Abdeckband 451.057

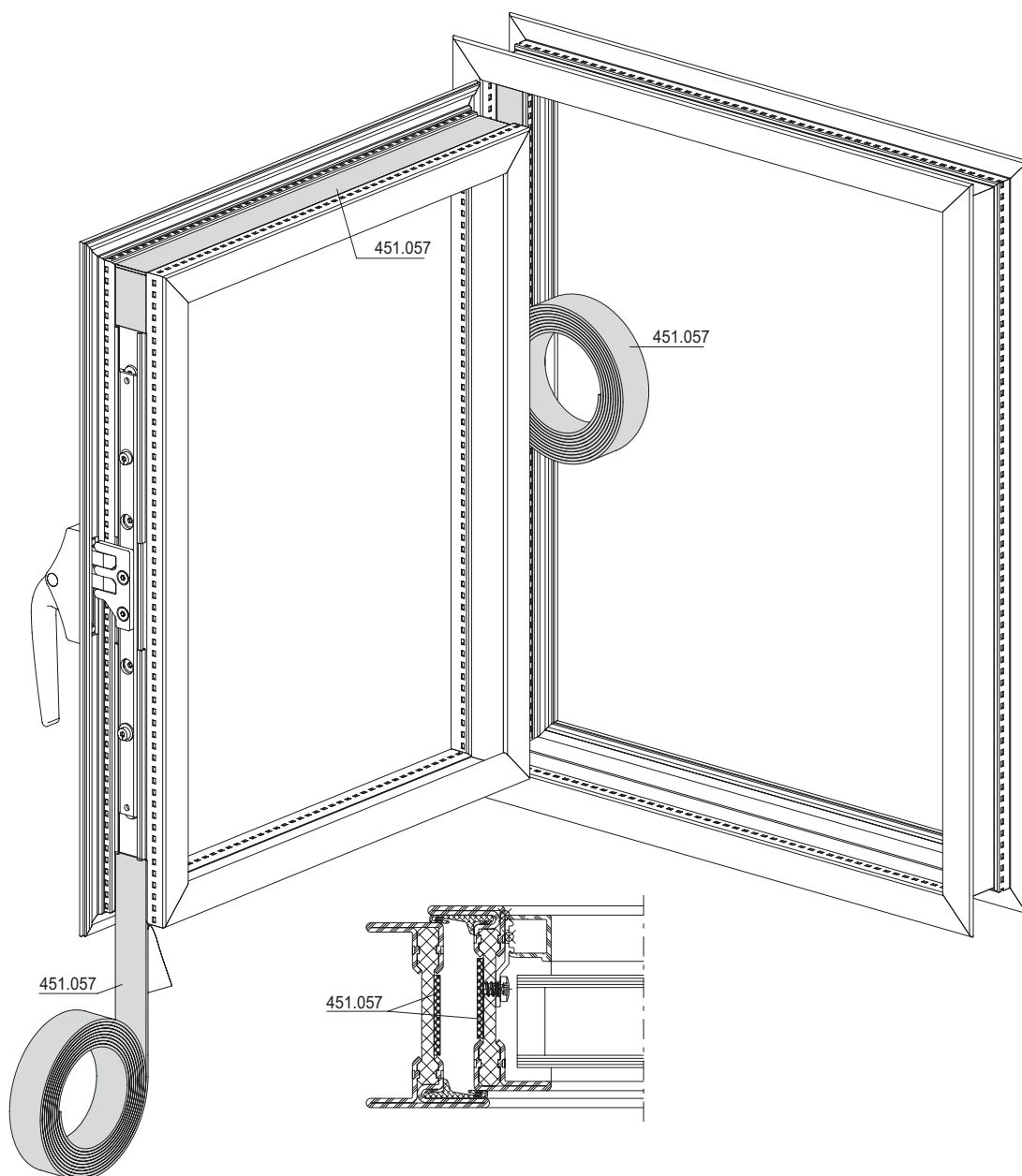
- Das Abdeckband darf erst nach der Oberflächenbehandlung am fertigen Element aufgebracht werden.
- Der Isolator muss trocken, staub-, öl- und fettfrei sein.
- Band direkt von der Rolle aufbringen. Schutzpapier sorgfältig abziehen.
- Band nicht in gestrecktem Zustand aufbringen.
- Abdeckband in den Ecken gestossen.
- Belüftungslöcher freistellen.

Bande de recouvrement 451.057

- La bande de recouvrement ne doit être appliqué sur l'élément fini qu'après traitement de surface
- L'isolateur doit être sec, exempt de poussière, d'huile et de graisse.
- Appliquer la bande directement à partir du rouleau. Retirer soigneusement le papier protecteur.
- Ne pas appliquer la bande en état étiré.
- Rectifier les joints dans les angles.
- Dégager les orifices de ventilation.

Cover tape 451.057

- The cover tape must be applied to the finished element only after surface treatment is complete.
- The insulator must be dry and free from dust, oil and grease.
- Apply the strip straight from the roll. Remove the protective paper carefully.
- Do not stretch the strip while applying.
- Join in the corners.
- Free up ventilation holes.



**Dämmprofil 450.104
im Rahmenfalz**

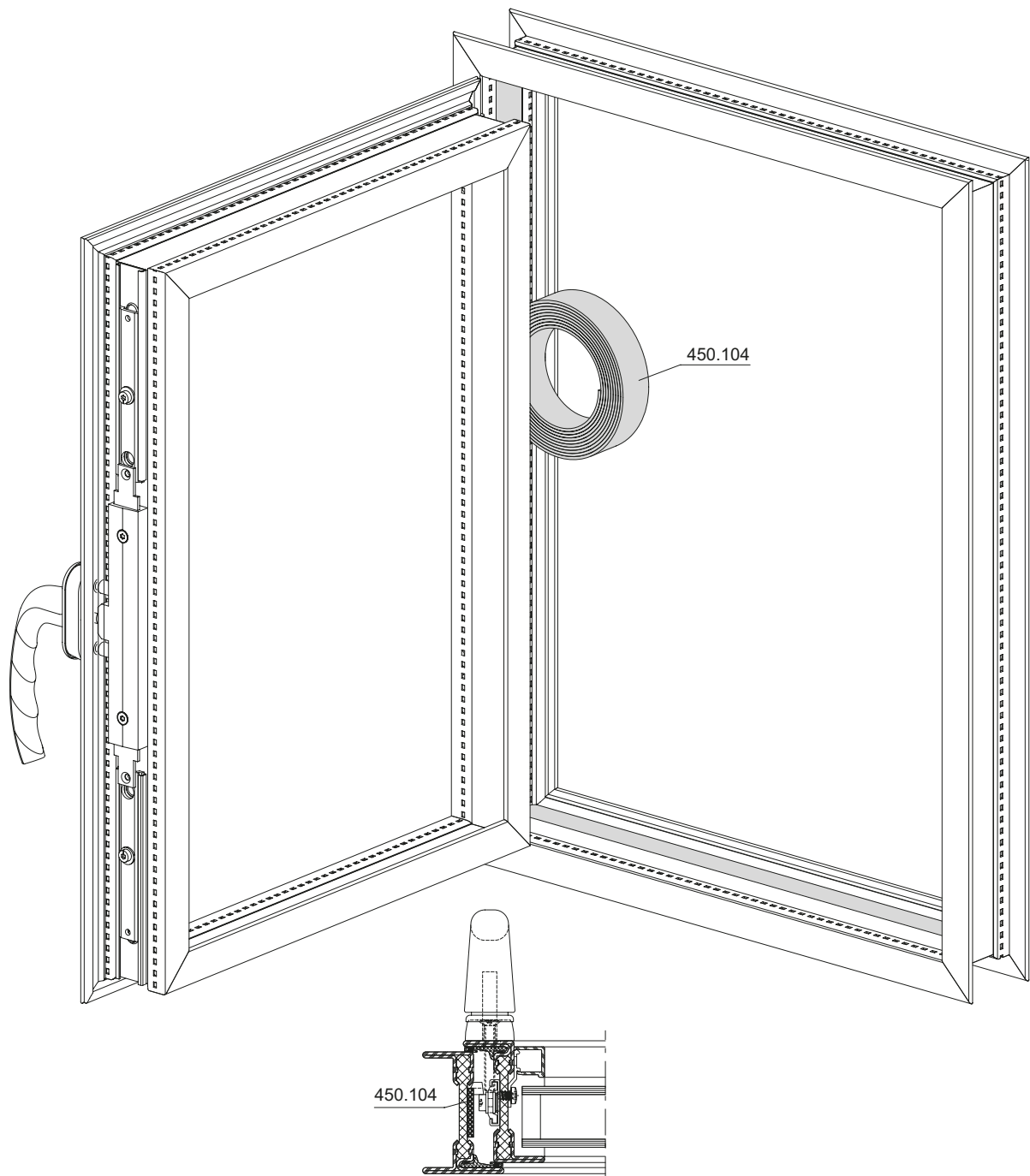
- Der Isolator muss trocken, staub-, öl- und fettfrei sein.
- Band direkt von der Rolle aufbringen. Schutzpapier sorgfältig abziehen.
- Band nicht in gestrecktem Zustand aufbringen.
- Abdeckband in den Ecken gestossen.

**Profilé isolant 450.104
dans la feuillure du cadre**

- L'isolateur doit être sec, exempt de poussière, d'huile et de graisse.
- Appliquer la bande directement à partir du rouleau. Retirer soigneusement le papier protecteur.
- Ne pas appliquer la bande en état étiré.
- Rectifier les joints dans les angles.

**Insulation profile 450.104
in the frame rebate**

- The insulator must be dry and free from dust, oil and grease.
- Apply the strip straight from the roll. Remove the protective paper carefully.
- Do not stretch the strip while applying.
- Join in the corners.



**Dämmprofil 450.103
im Glasfalz**

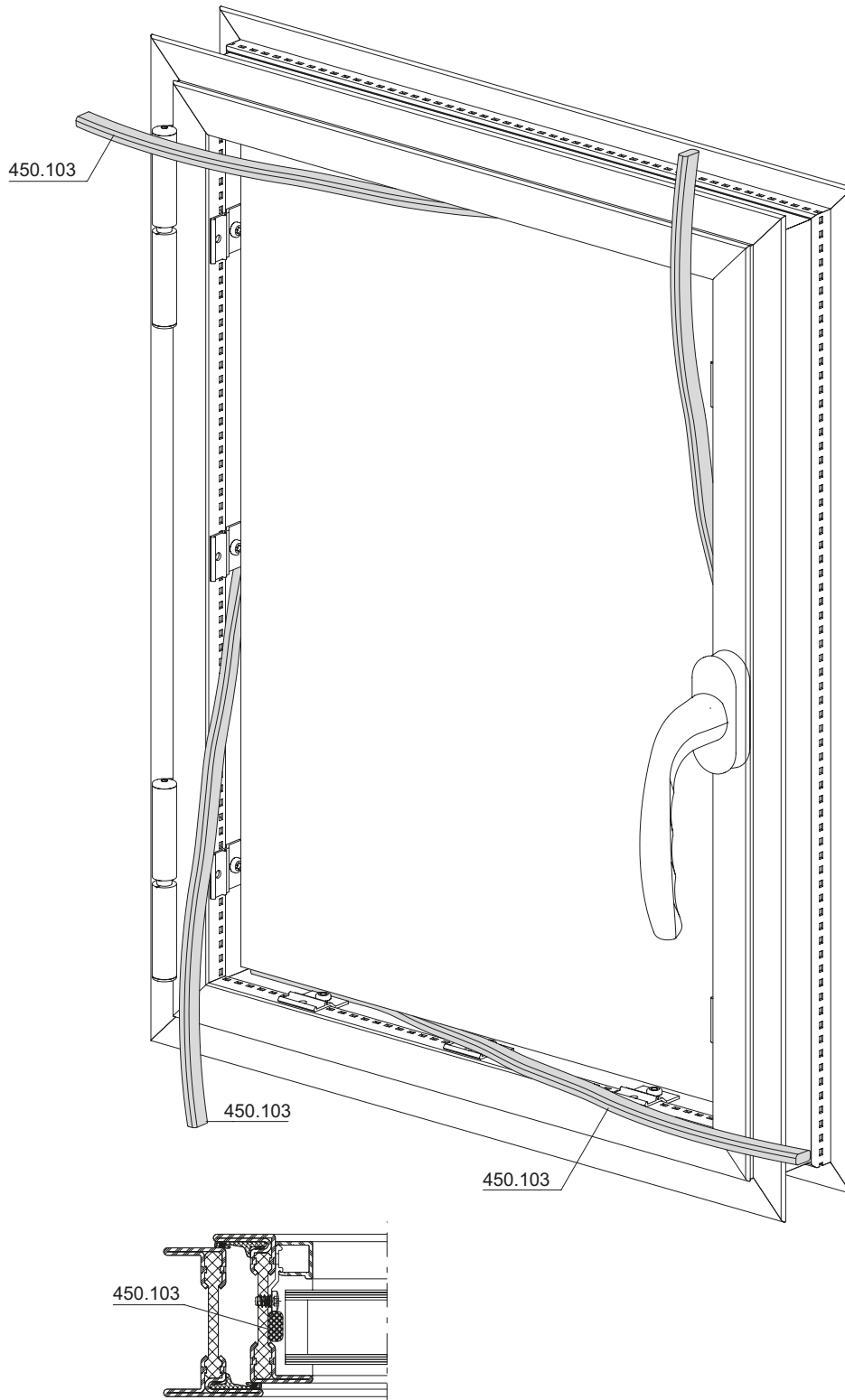
- Dämmprofil nach dem Einsatz des Füllelementes in den Glasfalz drücken.

**Profilé isolant 450.103
dans la feuillure de verre**

- Presser le profilé isolant dans la feuillure de verre après avoir mis l'élément de remplissage en place.

**Insulation profile 450.103
in the glazing rebate**

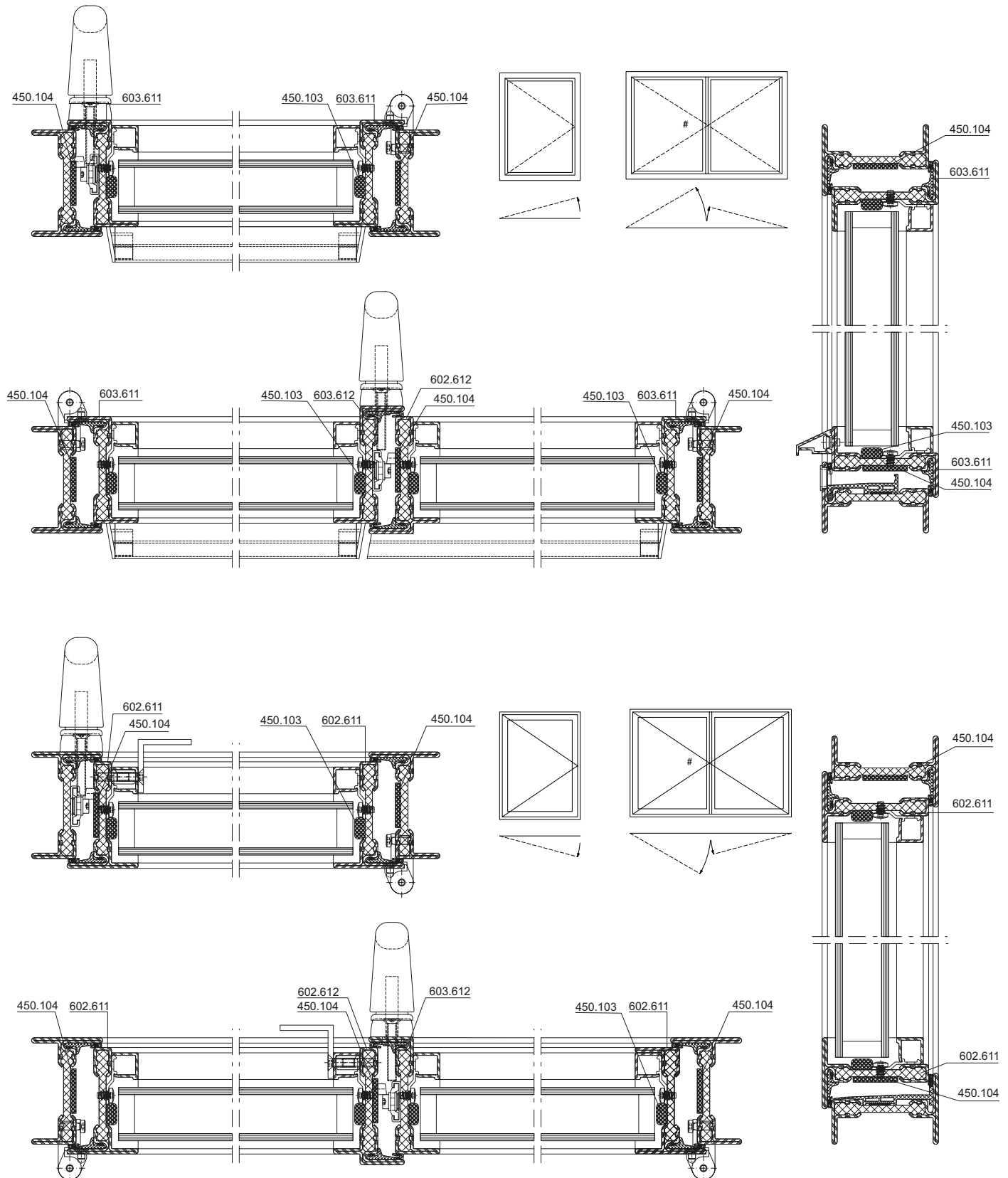
- After inserting the infill unit, press the insulation profile into the glazing rebate



Anordnung
Dämmprofile 450.103 / 450.104

Disposition des
profilés isolant 450.103 / 450.104

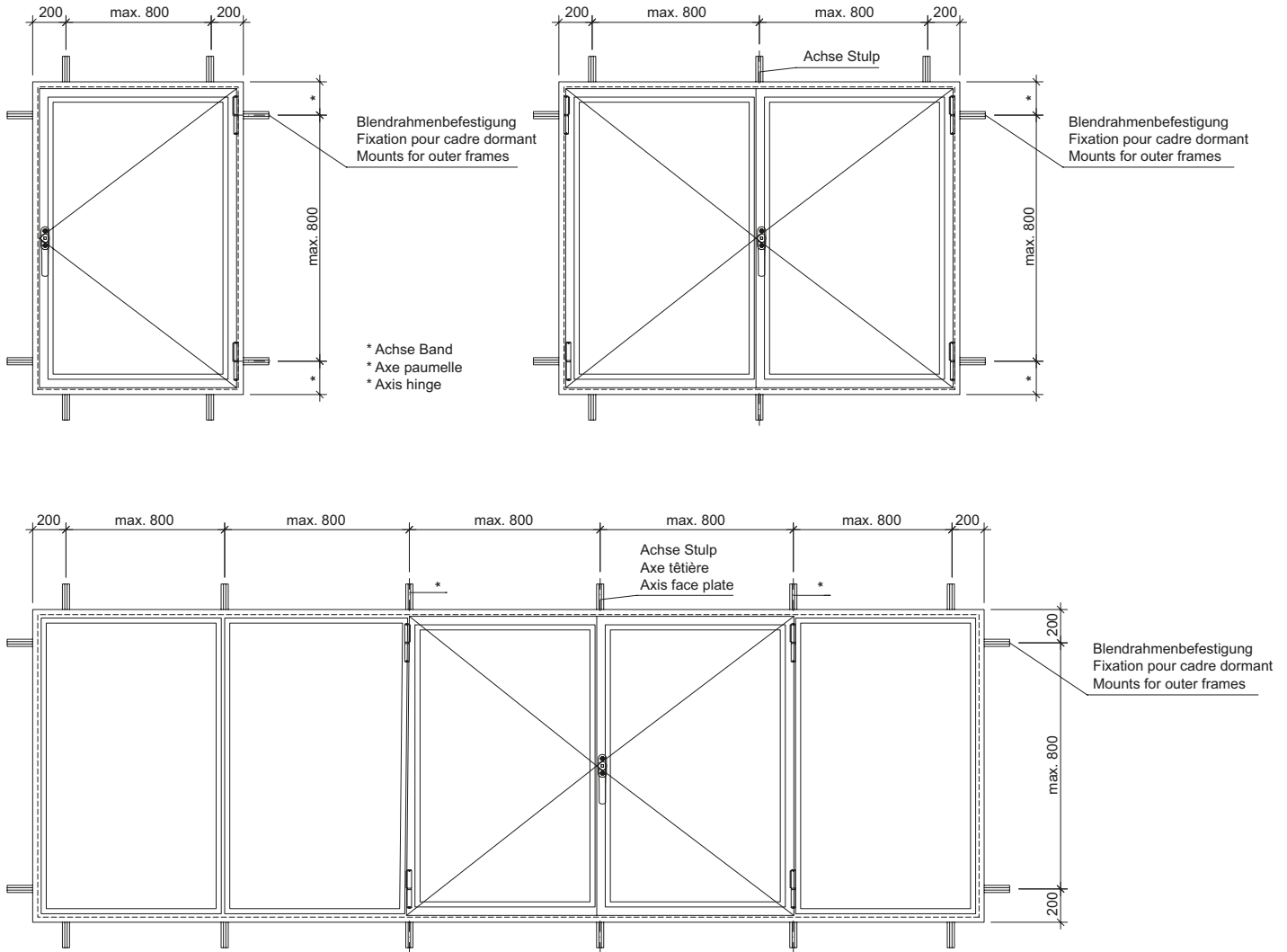
Arrangement of
insulation profiles 450.103 / 450.104



Befestigungspunkte Janisol Arte 2.0

Points de fixation Janisol Arte 2.0

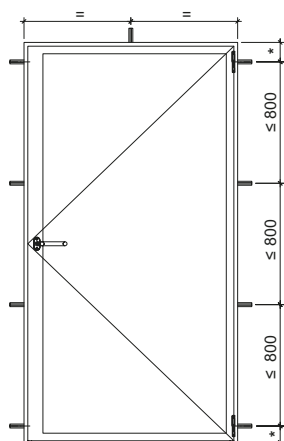
Janisol Arte 2.0 fixing points



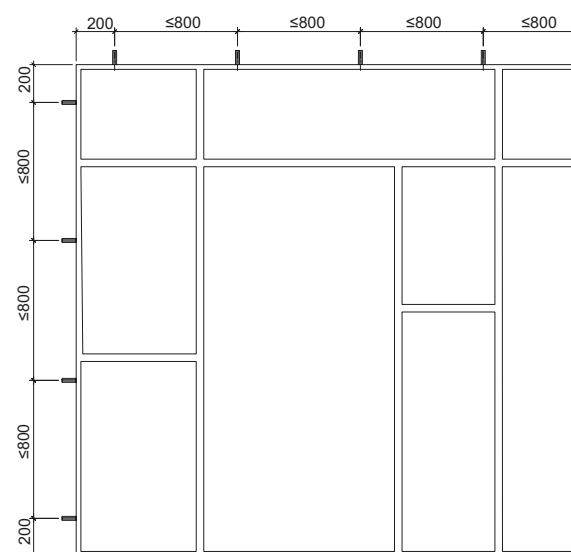
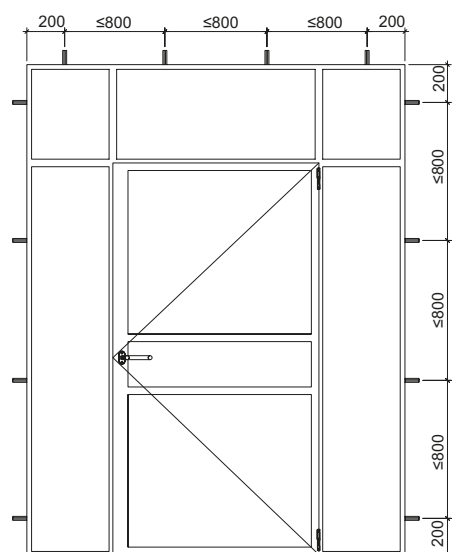
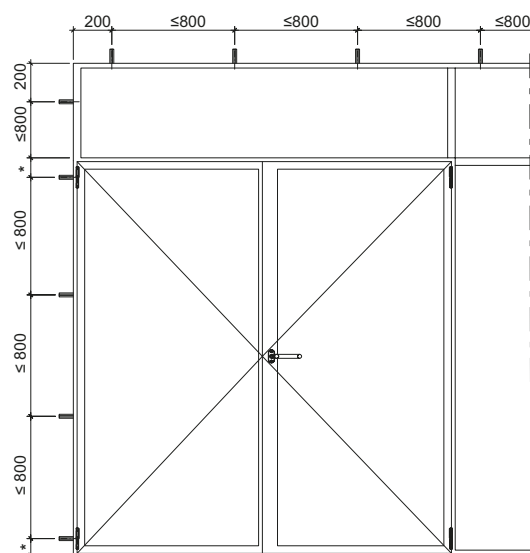
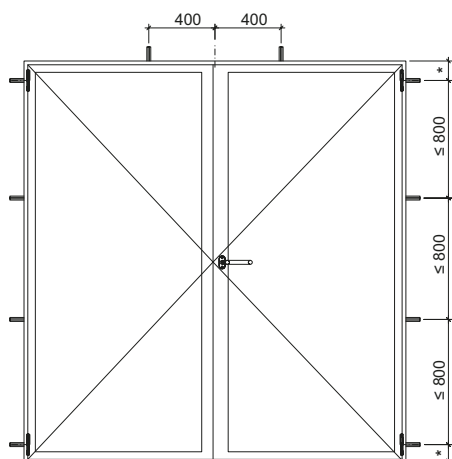
Empfehlung Anordnung
Befestigungspunkte
Janisol Arte Fenstertüre

Recommandation de disposition
Points de fixation porte-fenêtre
Janisol Arte

Arrangement recommendation
Fixing points for Janisol Arte
window doors



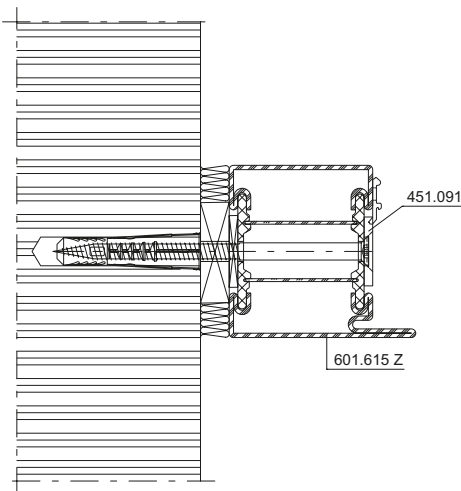
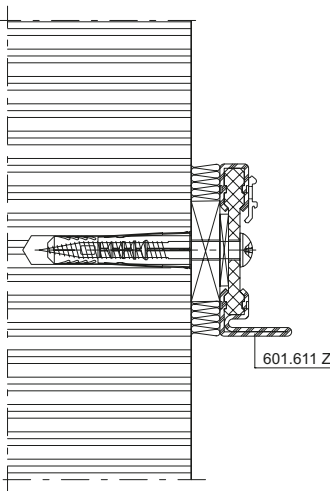
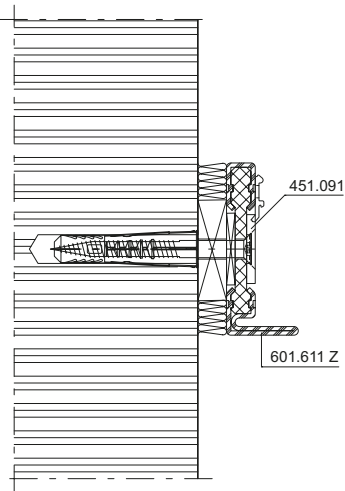
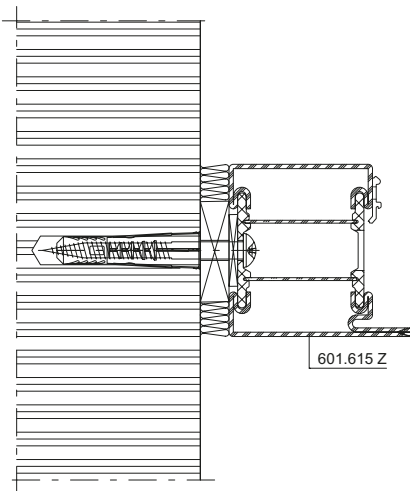
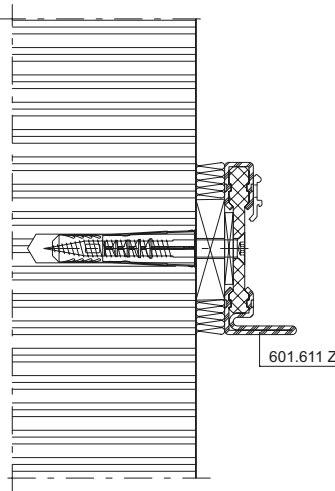
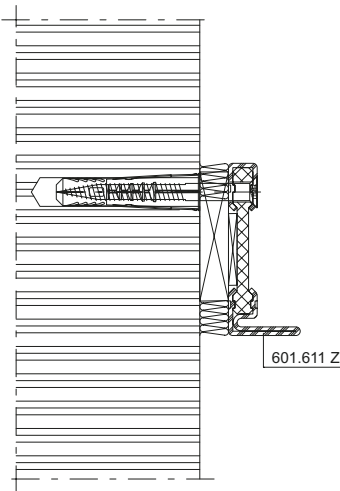
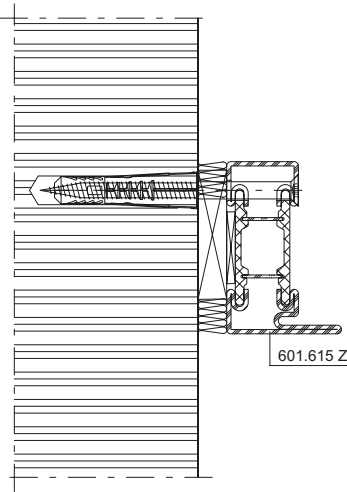
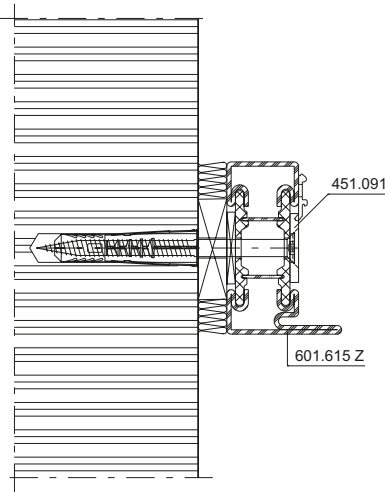
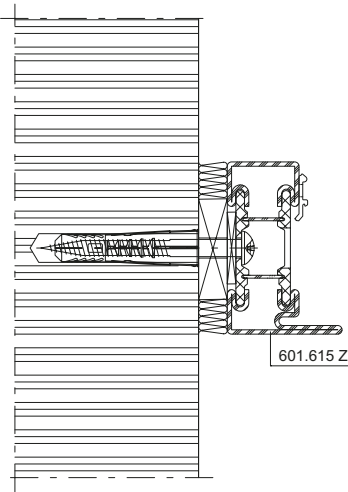
* Achse Band
* Axe paumelle
* Axis hinge



Befestigungsvarianten
(Direktmontage, ohne Laschen)

Variantes de fixation
(Montage direct, sans languette)

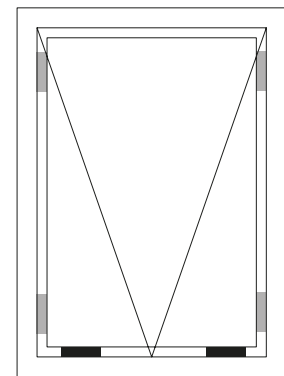
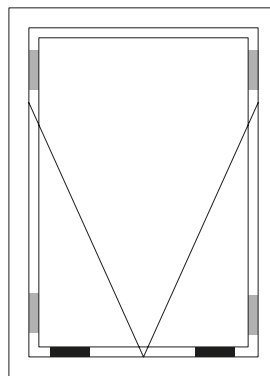
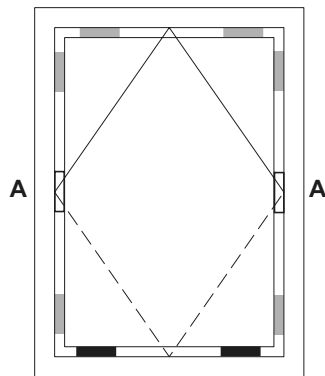
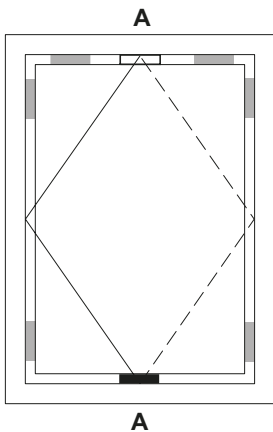
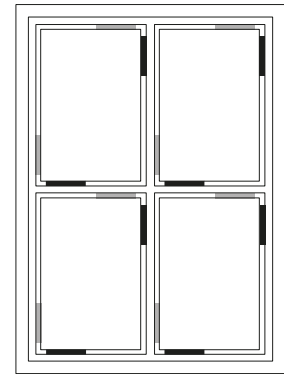
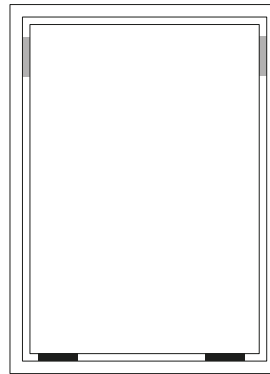
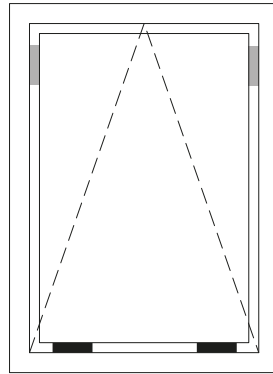
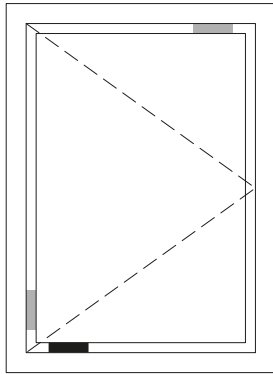
Fixing variants
(Direct installation without latches)



Verklotzen der Fenster
gemäss Empfehlung DIN EN 12488

Calage des fenêtres selon
recommandation DIN EN 12488

Glazing blocks of the windows
according to DIN EN 12488
recommendation



Tragklotz
Cale d'assise
Support block

Distanzklotz
Cale d'écartement
Spacer block

Profile auf Höhe Bänder ausrichten
Profils sur hauteur des paumelles aligner
Profiles of height hinges adjust

A
Distanzklotz im Flügel und Rahmen
für direkte Kraftableitung
Cale d'écartement dans le vantail
et le cadre, pour une transmission
directe de la force
Spacer block in sash and frame
for direct load deflection

Verglasung

Das System Janisol Arte 2.0 kann mit Trocken- oder Nassverglasung ausgeführt werden. Bei Verwendung des Dichtstoffes 452.086 zur Versiegelung sollte mit dem Glaslieferanten abgestimmt werden und die Verträglichkeit der eingesetzten Materialien sichergestellt werden.

Für die Verglasung und Verklotung sind folgende Regelwerke zu beachten:

- Verglasungsrichtlinien des Isolierglasherstellers
- Richtlinien des Institutes für Fenstertechnik, Rosenheim
- Richtlinien des Institutes des Glaserhandwerks für Verglasungstechnik und Fensterbau, Hadamar
- Nationale Anforderungen an das Glas wie z.B. Technische Regeln für die Verwendung von linienförmig gelagerten Verglasungen (TRLV)

Der Glaseinstand bei Janisol Arte beträgt lediglich 11 mm. Dies ist aufgrund der aktuellen und neuen DIN 18008-2 «Glas im Bauwesen» unkritisch, da der Glaseinstand mindestens 10 mm betragen muss, und dies grössenunabhängig!

- Bei der Versiegelung von Janisol Arte ist darauf zu achten, dass die Versiegelungen gemäss DIN 18545 erstellt werden. Speziell aussen unten horizontal, damit das Wasser abfließen kann (Schmutz, Belastung, Dichtstoff).

Rahmen- und Flügelprofile richten

Vor der Ausführung der Verglasung müssen die Flügel- wie auch die Rahmenprofile gerichtet werden. Ist dies nicht möglich, müssen die Füllelemente mit dem Rahmen dauerhaft verbunden werden. Die Verträglichkeit des Klebstoffes muss mit dem Glaserhersteller geprüft werden.

Vitrage

Le système Janisol Arte 2.0 peut être réalisé avec un vitrage à sec ou au silicone. En cas d'utilisation du mastic 452.086 pour le scellement, il convient d'en discuter avec le fournisseur de vitrage et de s'assurer de la compatibilité des matériaux utilisés.

Tenir compte des règlements suivants pour le vitrage et le calage:

- Directives de vitrage du fabricant de verre isolant
- Directives de l'Institut pour la technique des fenêtres, Rosenheim
- Directives de l'Institut de la profession des vitriers pour la technique de vitrage et la construction de fenêtres, Hadamar
- Exigences nationales vis-à-vis du verre telles que les règles techniques pour l'utilisation de vitrages linéaires (TRLV)

La prise en feuillure Janisol Arte n'est que de 11 mm, ce qui n'est pas critique en raison de la norme actuelle et de la nouvelle DIN 18008-2 «Verre dans l'industrie du bâtiment» car la prise en feuillure doit être d'au moins 10 mm, indépendamment de la taille!

- Veiller lors du scellement de Janisol Arte à ce qu'il soit opéré selon DIN 18545. Spécialement à l'extérieur en bas à l'horizontale afin que l'eau puisse s'écouler (salissures, charge, produit d'étanchéité).

Ajuster les profilés de cadre et de vantail

Avant l'exécution du vitrage, il faut ajuster les profilés de vantail et de cadre. Si cela est impossible, on reliera de façon durable les éléments de remplissage avec le cadre. Il est nécessaire de vérifier la compatibilité de la colle avec le verrier.

Glazing

The Janisol Arte 2.0 system can be designed with dry or wet glazing. When using sealant 452.086 for sealing, the glass supplier should be consulted and the compatibility of the materials used must be ensured.

Note the following regulations for glazing and blocking:

- Glazing guidelines from the insulating glass manufacturers
- Guidelines of the Institute for Window Technology, Rosenheim, Germany
- Guidelines of the «Institut des Glaserhandwerks für Verglasungstechnik und Fensterbau» (Institute of Glassmakers for Glazing and Window Technology), Hadamar, Germany
- National requirements for glass such as the Technical regulations for glazing held in by pressure plates (TRLV)

The glass edge cover is just 11 mm for Janisol Arte. This is not critical due to the current, new standard DIN 18008 - 2 «Glass in Building» as the glass edge cover has to be at least 10 mm irrespective of size.

- When sealing Janisol Arte, ensure that the sealing is done in accordance with DIN 18545. Pay special attention to the outside bottom horizontal seal to ensure that water can run off (dirt, sealing compound).

Align frame and sash profiles

Before installing the glazing, the sash and frame profiles must be aligned. If this is not possible, the infill units must be permanently bonded to the frame. The compatibility of the adhesive must be checked with the glass manufacturer.

Glaseinbau

Pose des verres

Glazing

Abdichtung im Falzbereich Festverglasung

Ecken- und T-Stoss abdichten
 Die Ecken der Entwässerungsebene sind mit Dichtmasse 450.092 auszustreichen.

Glasfalz-Grund abdichten
 Der Glasfalz-Grund ist im Isolator-Bereich mit Schmalfugen-Dichtmasse (450.106) unten durchgehend und seitlich 50 mm hoch abzudichten.

Étanchéité dans la feuillure Vitrage fixe

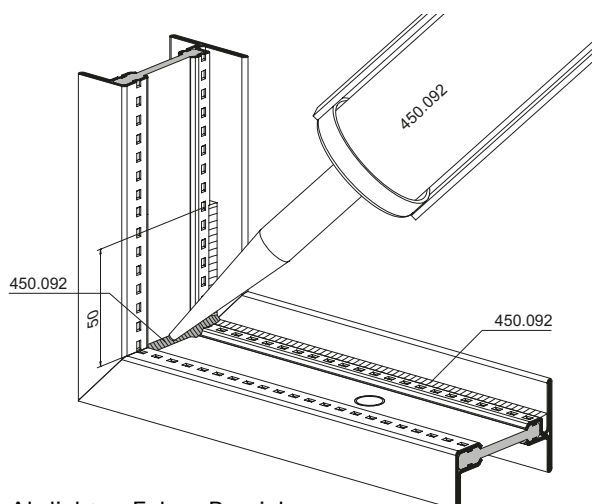
Étancher les joints d'angle et en T
 Étancher les angles du plan de drainage avec pièce d'étanchéité 450.092.

Étanchéité du fond de feuillure
 Étancher le fond de feuillure dans la zone de l'isolateur avec du mastic d'étanchéité pour joints étroits (450.106) en partie inférieure et sur les côtés jusqu'à 50 mm de hauteur.

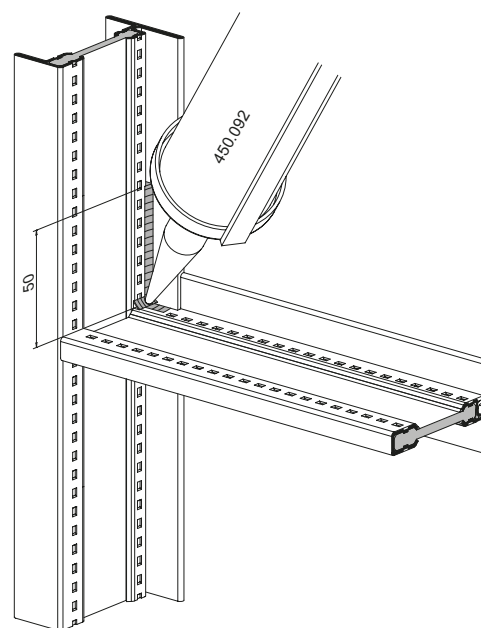
Sealing in the rebate region Fixed glazing

Sealing corners and T joint
 The corners of the drainage region are to be smeared with sealing compound 450.092.

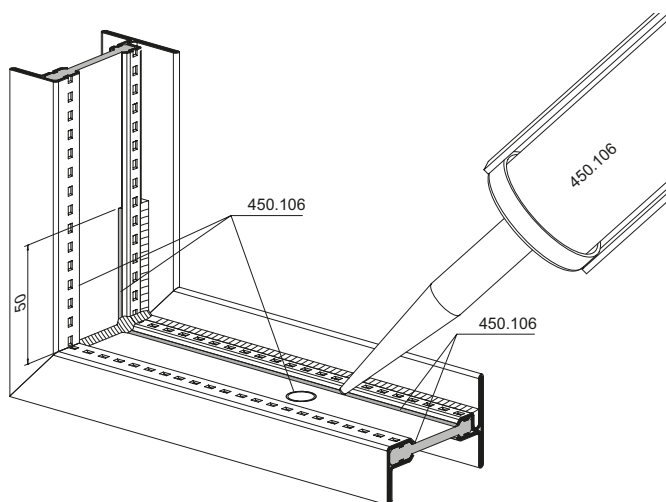
Glazing rebate base
 The glazing rebate base is to be sealed in the region of the insulator continuously and sideways to a depth of 50 mm with narrow joint sealing material (450.106).



Abdichten Ecken-Bereich
 Étanchéité des joints d'angle
 Sealing corners



Abdichten T-Stoss-Bereich
 Étanchéité en T
 Sealing T joint



Abdichtstellen Glasfalz
 Situation de l'étanchéité de feuillure
 Sealed positions glazing rebate

Für eine bessere Verarbeitung und Dosierung der Dichtmasse 450.106 empfehlen wir die Verwendung des Artikels 450.109.

Pour un meilleur usinage et dosage de la pâte d'étanchéité 450.106, nous vous recommandons d'utiliser l'article 450.109.

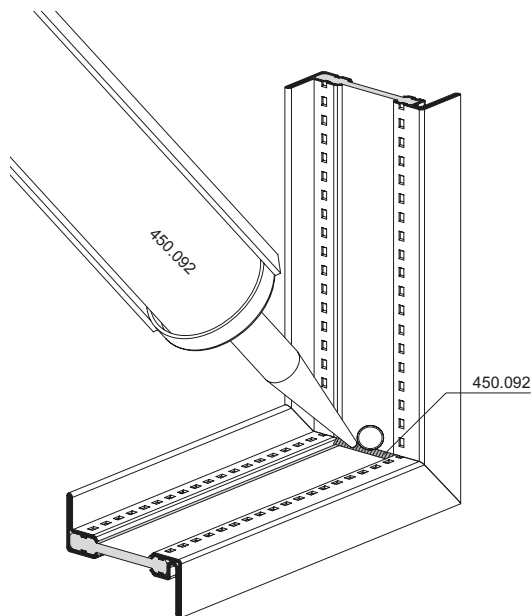
To improve processing and dosing of the sealing compound 450.106, we recommend using item 450.109.

**Abdichtung im Falzbereich
 Fensterflügel**

Damit allfälliges Tauwasser nicht über die Isolatorenecken in den Fensterfalz gelangen kann, müssen die Ecken im Glasfalzbereich mit Dichtmasse 450.092 abgedichtet werden.

Glasfalz-Grund abdichten

Der Glasfalz-Grund ist im Isolator-Bereich mit Schmalfugen-Dichtmasse (450.106) unten durchgehend und seitlich 50 mm hoch abzudichten.



Abdichten Ecken-Bereich
 Etanchéité des joints d'angle
 Sealing corners

**Etanchéité dans la feuillure
 Vantail de fenêtre**

Pour que l'eau de condensation ne puisse pénétrer dans la feuillure de la fenêtre en passant par les angles des barrières isolantes, il doit être appliqué de la pâte d'étanchéité 450.092 dans les angles de la zone de la feuillure de verre.

Etanchéité du fond de feuillure

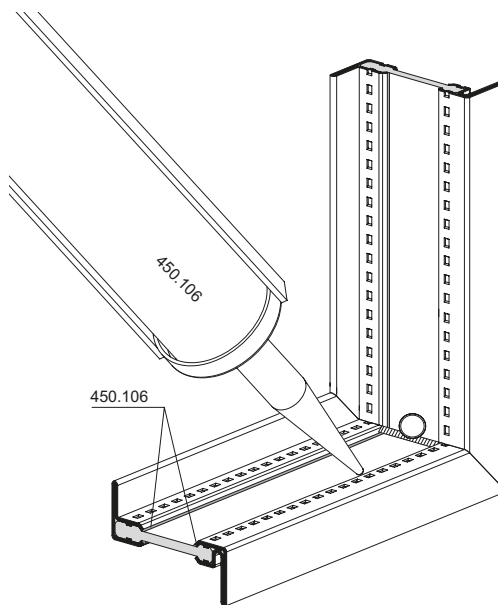
Etancher le fond de feuillure dans la zone de l'isolateur avec du mastic d'étanchéité pour joints étroits (450.106) en partie inférieure et sur les côtés jusqu'à 50 mm de hauteur.

**Sealing in the rebate region
 Window sash**

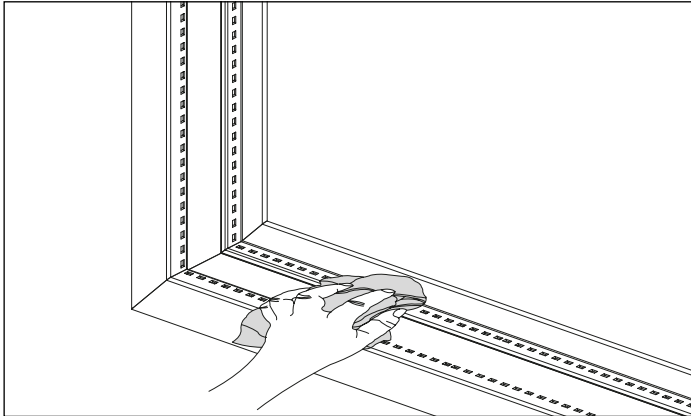
To ensure that possible condensation cannot get into the window rebate via the corners of the isolators, the corners must be sealed in the glazing rebate area with sealing compound 450.092.

Glazing rebate base

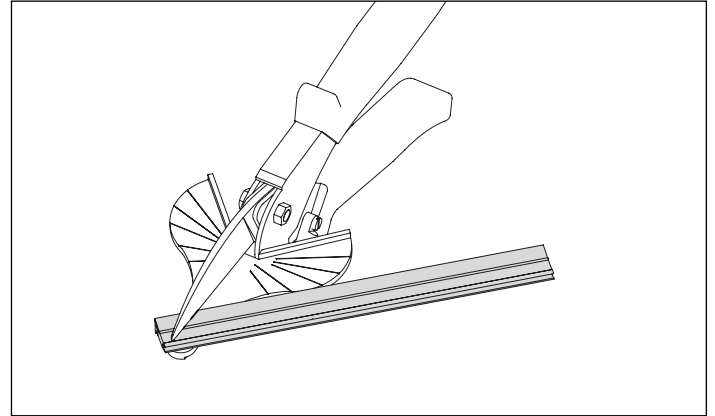
The glazing rebate base is to be sealed in the region of the insulator continuously and sideways to a depth of 50 mm with narrow joint sealing material (450.106).



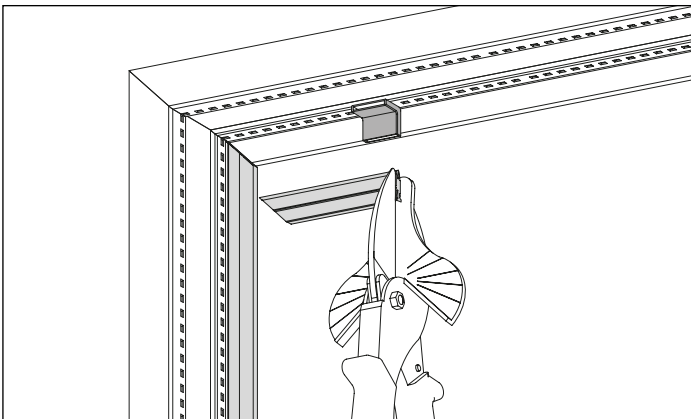
Abdichtstellen Glasfalz
 Situation de l'étanchéité de feuillure
 Sealed positions glazing rebate



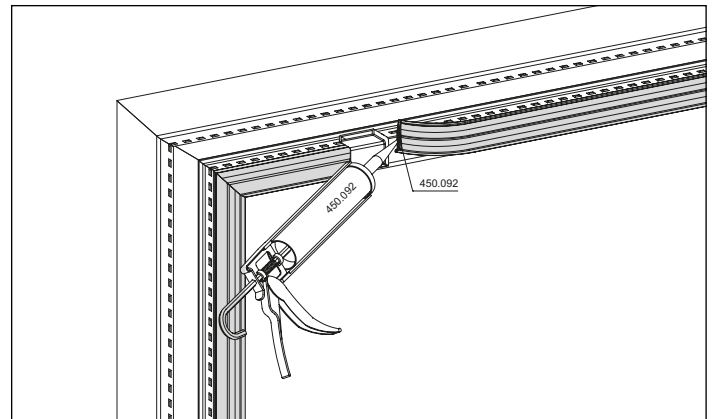
Reinigung Profilanschlag
Nettoyage aile fixe du profilé
Cleaning section stop



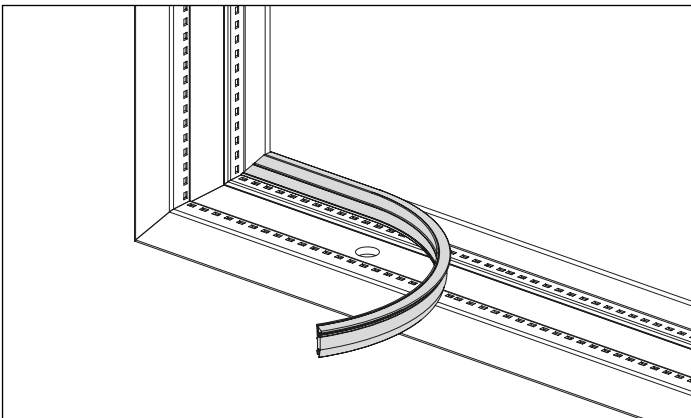
Zuschnitt Aussendichtung
Coupe joint extérieur
Cutting outer weather strip to size



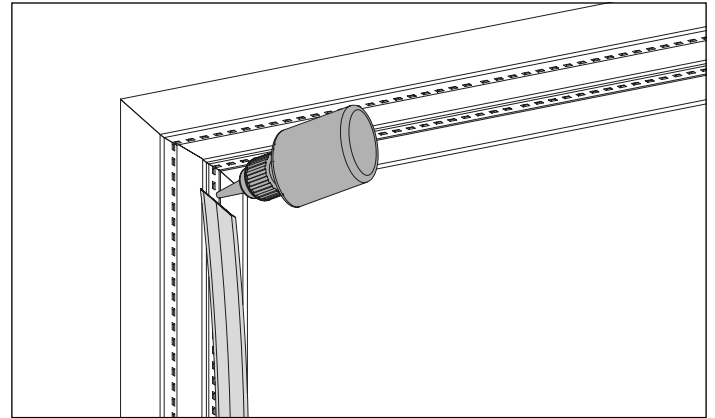
Freistellen im Bereich Belüftungswinkel
Interruption dans la zone équerre d'aération
Freeing in the region of the angle for glazing rebate ventilation



Verkleben mit Belüftungswinkel (450.092)
Coller avec l'équerre d'aération (450.092)
Gluing to the angle for glazing rebate ventilation (450.092)



Aussendichtung
Monter le joint extérieur
Installing the outer weatherstrip



Gehungsecken verkleben (450.089)
Coller les angles d'onglet (450.089)
Gluing the mitre corners (450.089)

Einbau-Hinweise

Reinigung Profilanschlag

Der Lappen des Profils ist vor dem Einkleben der Aussendichtung sorgfältig zu reinigen. Der Anschlag muss trocken, staub-, öl- und fettfrei sein.

Zuschnitt Aussendichtung

Die Aussendichtungen sind vorgängig mit leichtem Übermass (ca. 5 mm/m) in Gehrung zu schneiden.

Einsetzen der Aussendichtung

Schutzfolie vom Butylkleber abziehen und Aussendichtung 455.608 an Profilanschlag kleben. Gehrungsecken sind mit 450.089 zu verkleben.

Einbau-Situation beim

Belüftungswinkel

Im Bereich der Glasfalz-Belüftungswinkel (450.110/111) muss die Aussendichtung freigestellt werden. Die Dichtung ist anschliessend mit 450.089 an den Kunststoff-Belüftungswinkel anzukleben.

Consignes de montage

Nettoyage butée de profilé

Nettoyer soigneusement la battue du profilé avant de coller le joint extérieur. L'aile fixe doit être sèche et exempte de poussière, d'huile et de graisse.

Coupe joint extérieur

Les joints extérieurs doivent être au préalable coupés d'onglet avec une légère surmesure (env. 5 mm/m).

Montage du joint extérieur

Retirer le film de protection du butyl autocollant, puis coller le joint extérieur 455.608 sur la butée de profilé. Coller les angles d'onglet avec 450.089.

Situation de montage au niveau de

l'équerre d'aération

Le joint extérieur doit être interrompu dans la zone de l'équerre d'aération de la feuillure (450.110/111). Coller ensuite le joint avec 450.089 sur l'équerre d'aération en plastique.

Installation instructions

Cleaning section stop

The lips of the sections are to be thoroughly cleaned before gluing in the outer weather strip. The stop must be dry and free of dust, oil and grease.

Cutting outer weatherstrip to size

The outer weatherstrip in the mitre is to be cut initially slightly oversize (approx. 5 mm/m).

Inserting the outer weatherstrip

Remove the butyl adhesive protective foil from the weatherstrip 455.608, and then glue it to the section stop. The corners of the mitre are to be glued with 450.089.

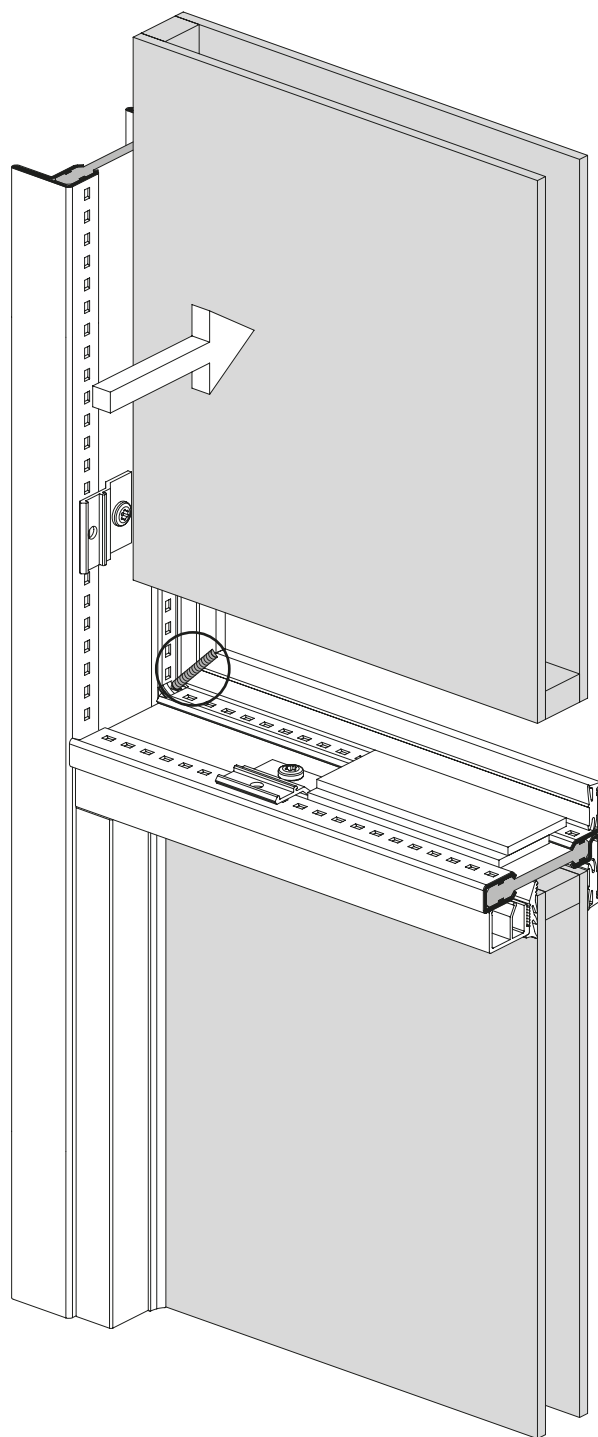
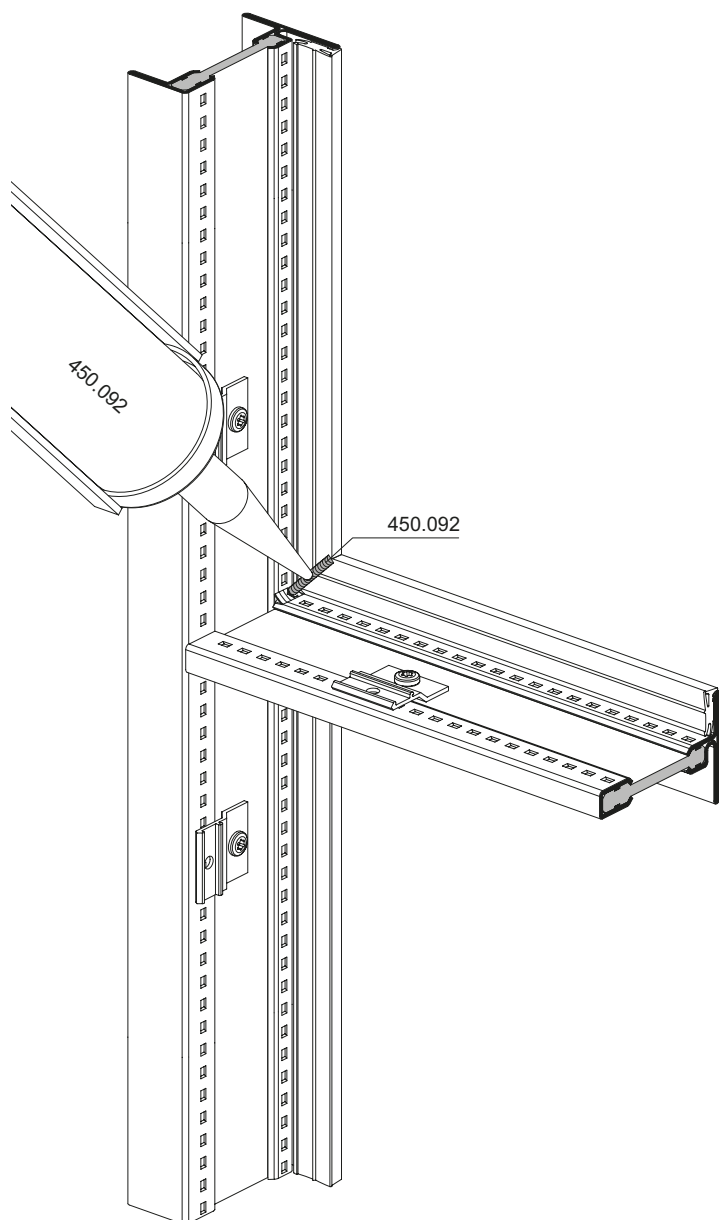
Installation situation for angle for glazing ventilation

The external weatherstrip must be freed in the region of the glazing beam angle (450.110/111). The strip is to be glued with 450.089 to the polymer angle for glazing rebate ventilation.

Abdichtung Glasdichtung
Gehung aussen

Étanchéification joint de vitrage
Onglet extérieur

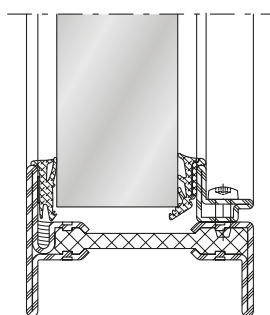
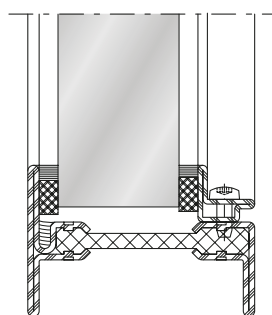
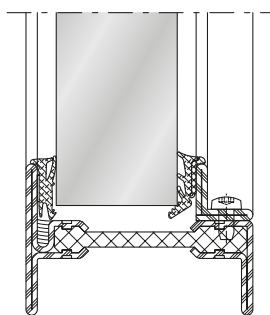
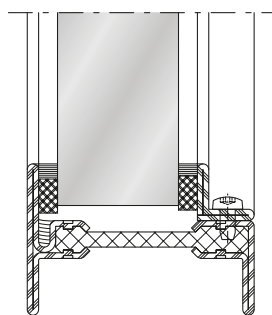
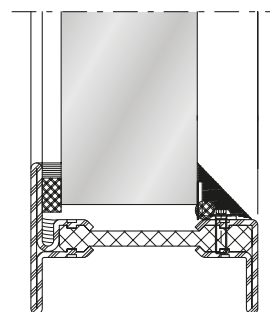
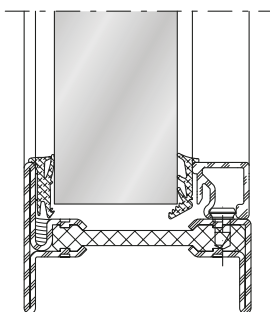
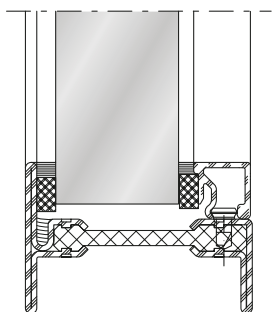
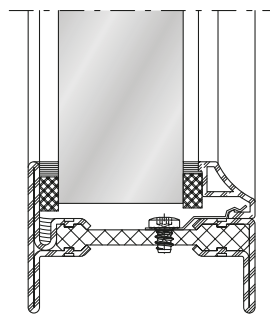
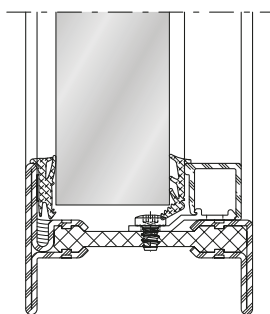
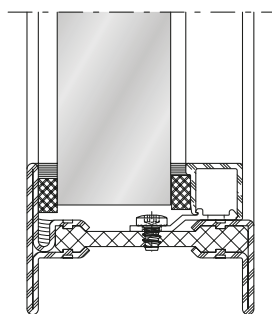
Sealing the glazing weatherstrip
Mitre on outside

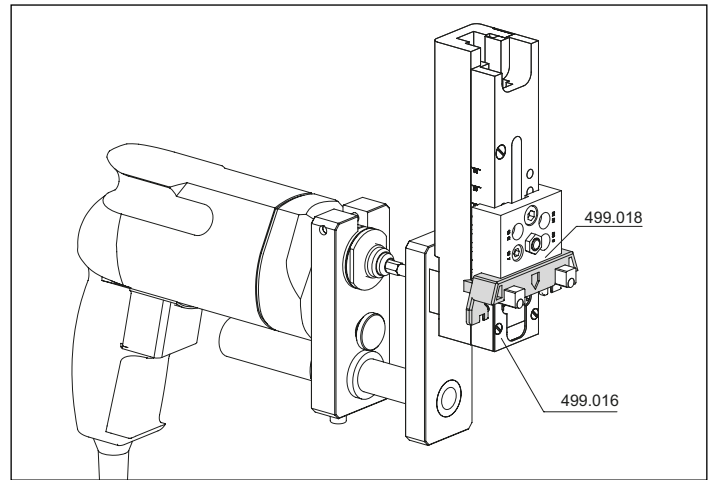
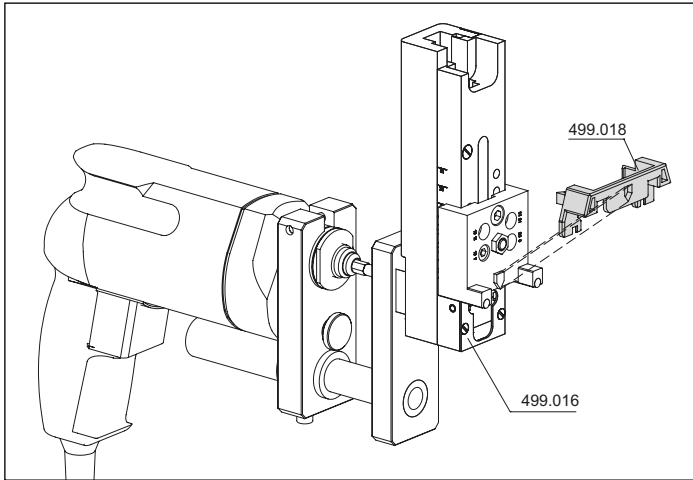


Glasleisten-Varianten

Variantes de parclores

Glazing bead options

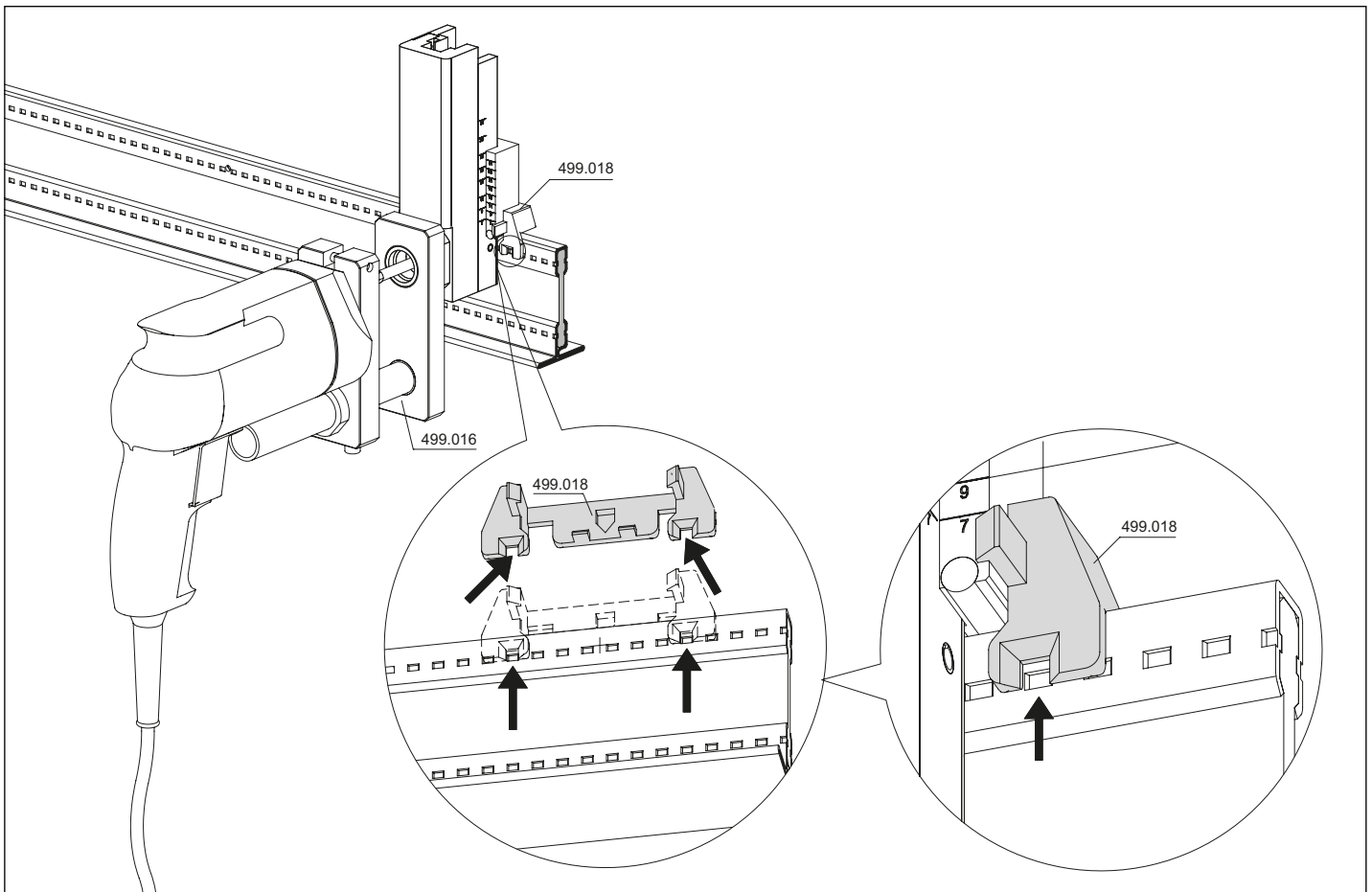




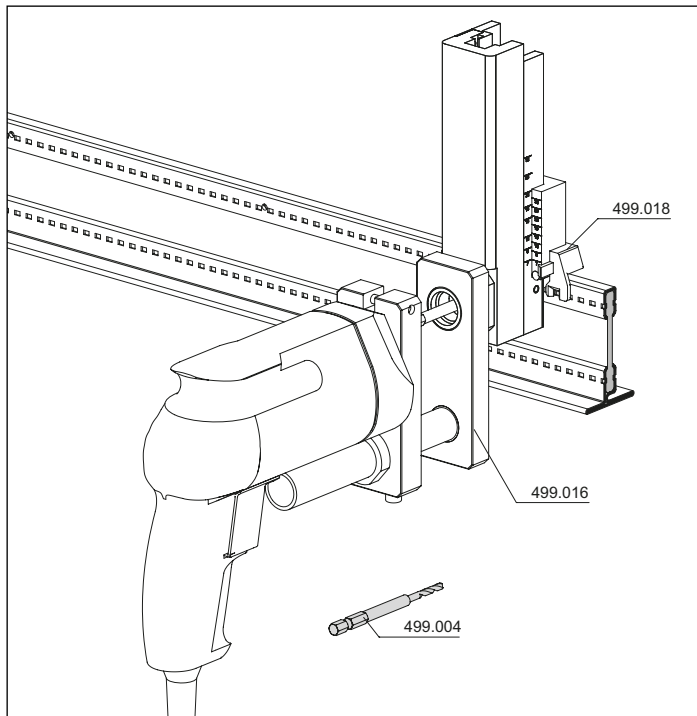
Für **Profile mit Kammermass 10 mm** Positionierhilfe 499.018 montieren.
Profile mit Kammermass 25/50 mm können ohne 499.018 gebohrt werden.

Pour **profilés avec des dimensions de caisson 10 mm**, monter l'accessoire de positionnement 499.018.
Les profilés présentant des dimensions de chambre 25/50 mm peuvent être percés sans 499.018.

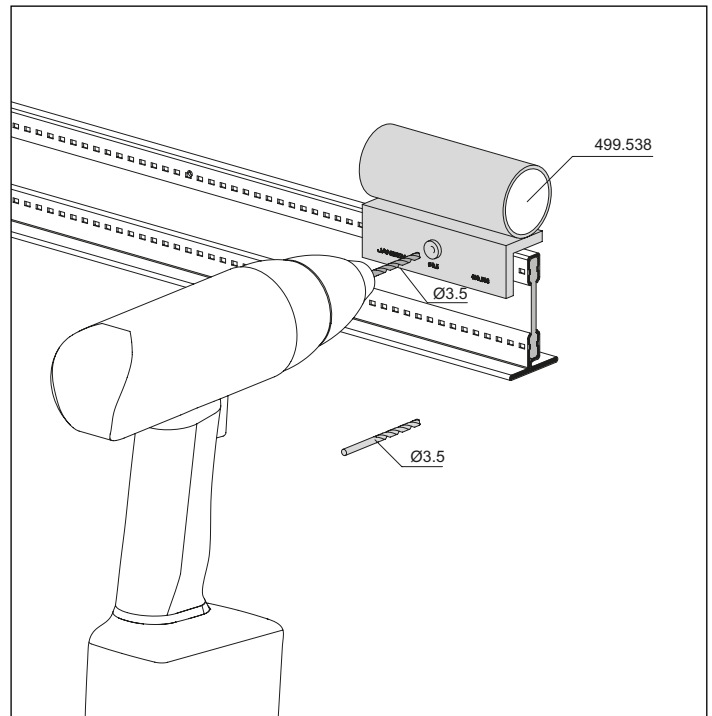
For **profiles with chamber sizes 10 mm**, install positioning guide 499.018.
Profiles with chamber size of 25/50 mm can be drilled without 499.018



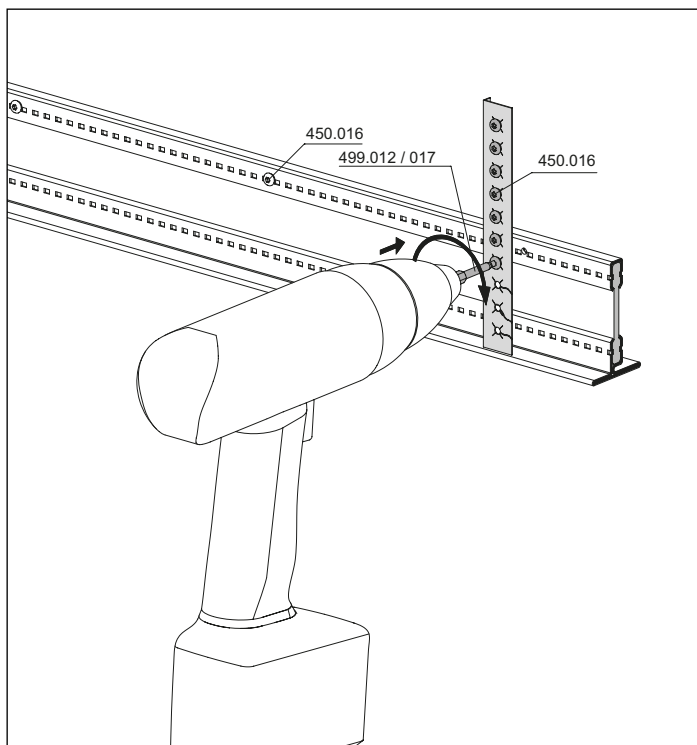
Positionierhilfe 499.018 an den Sicken ausrichten
Orienter l'accessoire de positionnement 499.018 au niveau des moulures
Align positioning guide 499.018 to the crimps



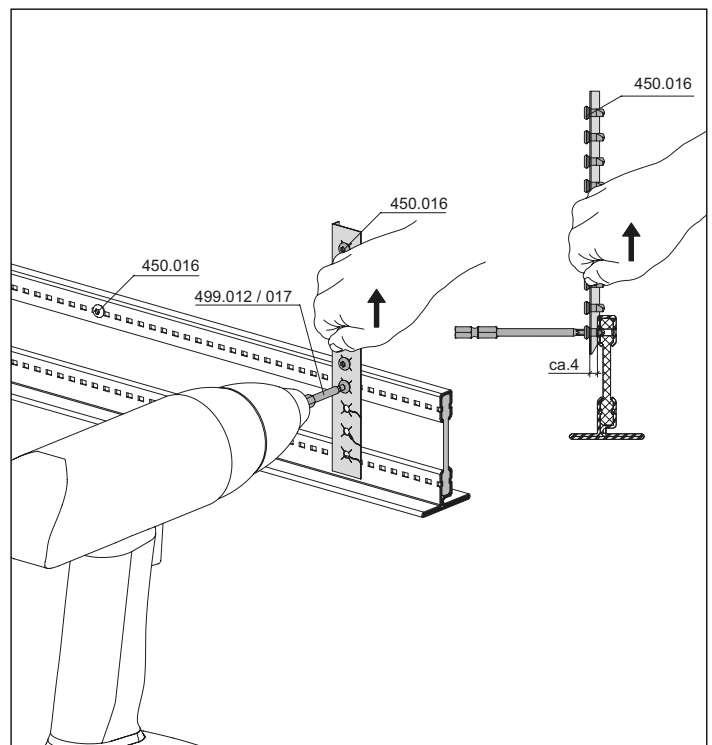
Mit Befestigungsset und Bohrer 499.004 vorbohren
Effectuer un préperçage avec le kit de fixation et le foret 499.004
Pre-drill using fixing kit and drill bit 499.004



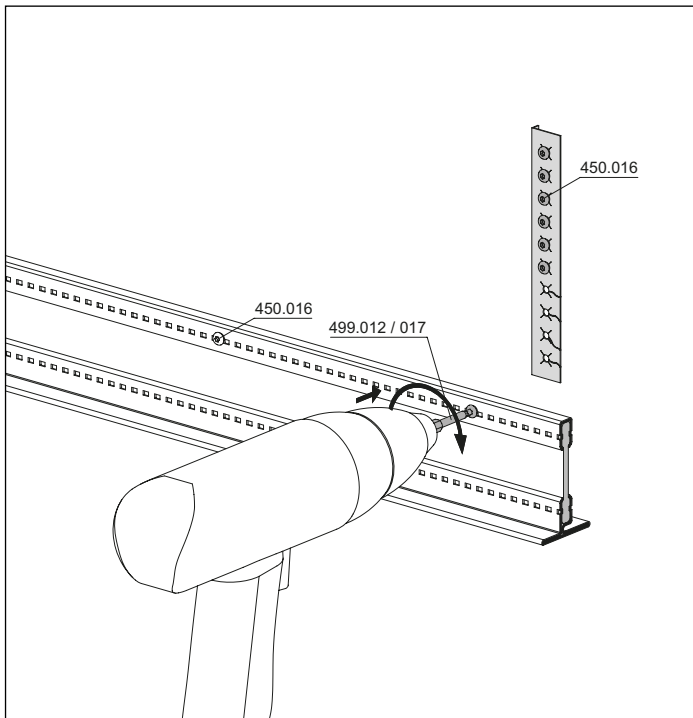
Variante: Mit Hand-Bohrlehre 499.538 vorbohren
Variante: Effectuer un préperçage avec le gabarit de perçage à main 499.538
Option: Pre-drill with hand-held drilling jig 499.538



Befestigungsknopf 450.016 ansetzen und eindrehen
Appliquer le bouton de fixation 450.016 et le visser avec la visseuse
Position fixing stud 450.016 and screw in place



Kartonstreifen abziehen
Retirer la bande de carton
Remove cardboard strip



Befestigungsknopf 450.016 fest anziehen
Bien serrer le bouton de fixation 450.016
Firmly tighten fixing stud 450.016

Hinweis:

Falls ein Span unter dem Schraubenkopf
verklemt, Befestigungsknopf leicht
lösen und Span entfernen.
Knopf wieder fest eindrehen.

Remarque:

Si un copeau est coincé sur la tête de
vis, desserrer légèrement cette tête et
enlever le copeau.
Resserrer la tête.

Note:

If a splinter gets stuck under the head
of the screw, loosen the fixing stud
slightly and remove the splinter.
Firmly tighten the stud once again.

Einbau-Hinweise

Einbau der Innendichtung

Auswahl der Innendichtung

Die Auswahl der Innendichtung erfolgt nach untenstehender Tabelle. Massgebend ist die Fugenbreite zwischen innerem Glasrand und Glasleiste.

Montage der Innendichtung

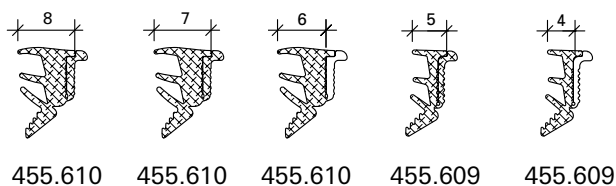
Je nach Fugenbreite und Auswahl der Innendichtung ist der Abreissteg (X) vor dem Einbau abzureissen. Die Innendichtungen sind vorgängig mit leichtem Übermass (ca. 5 mm/m) in 45° Gehrung zu schneiden.

Montage der Innendichtung

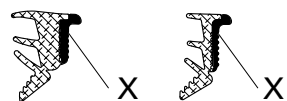
Die Innendichtung sollte ca. 5 cm entfernt von der Ecke eingesetzt und erst dann in die Gehrung hinein geschoben werden.

Tips

- Dünne Stahlbleche (z.B. 0,15 mm) erleichtern das Eindrücken der Dichtung im Bereich der Glasklötze und Glasleistenhalter.
- Dichtungen vor dem Einbau warm (Raumtemperatur) lagern.
- Dichtungen vorgängig mit Seifenwasser besprühen.



Innendichtungen (Glasleisten-Seite)
Joints intérieurs (côté parclose)
Inner weatherstrip (glazing bead side)



Steg abreißen
Arracher la partie déchirable
Detaching strip

Consignes de montage

Montage du joint intérieur

Choix du joint intérieur

Le choix du joint intérieur s'effectue suivant le tableau ci-dessous. Le plus important est la largeur du joint entre la bordure intérieure du vitrage et la parclose.

Montage du joint intérieur

Suivant la largeur des joints et le choix du joint intérieur, la partie déchirable (X) doit être arrachée avant le montage. Les joints intérieurs doivent au préalable être coupés d'onglet à 45° avec une légère surmesure (env. 5 mm/m).

Montage du joint intérieur

Le joint intérieur doit être placé à env. 5 cm de l'angle, puis enfoncé dans l'onglet.

Conseils

- De fines tôles d'acier (ex: 0,15 mm) facilitent l'enfoncement du joint dans la zone des cales de vitrage et clips pour parclose.
- Stocker les joints au chaud (à température ambiante) avant de les monter.
- Vaporiser au préalable les joints à l'eau savonneuse.

Installation instructions

Installing the inner weatherstrip

Selection of inner weatherstrip

Inner weatherstrips are selected according to the table given below. The spacing width between inner glazing edge and glazing is the critical factor.

Assembling the inner weatherstrip

Depending on the spacing width and selection of the inner sealant, the detachable strip (X) is to be torn off before installation. The inner weatherstrips are to be cut in the 45° mitre, initially slightly oversized (approx. 5 mm/m).

Installing the inner weatherstrip

The inner weatherstrip should be set approx. 5 cm away from the corner and only then be pushed into the mitre.

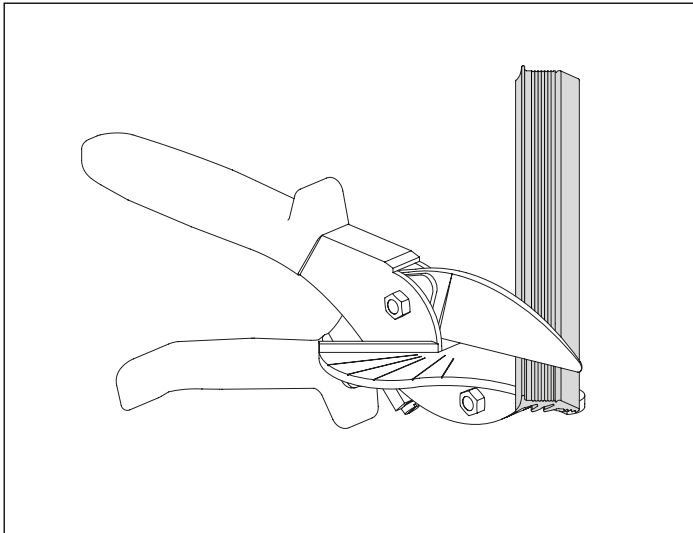
Tips

- Thin steel sheets (e.g. 0.15 mm) make pushing in the weatherstrip easier in the region around the glazing bridges and glazing bead clips.
- Store the weatherstrips in a warm (ambient temperature) environment before installation.
- Spray the weatherstrips with soapy water as a preliminary.

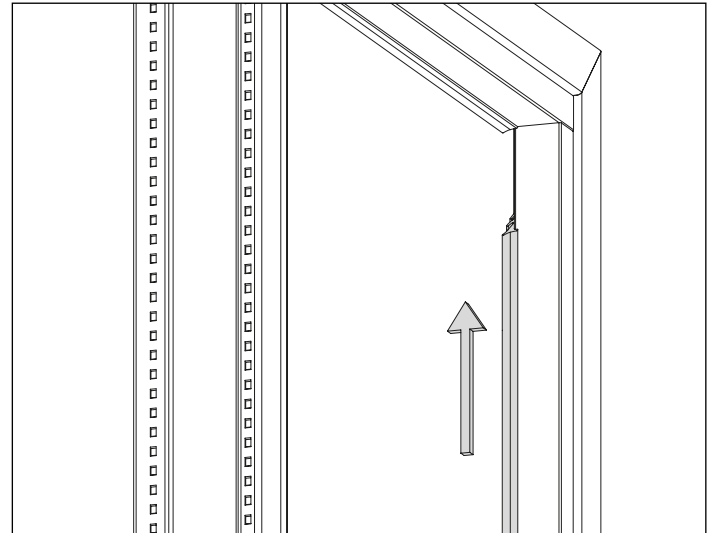
Einbau-Hinweise

Consignes de montage

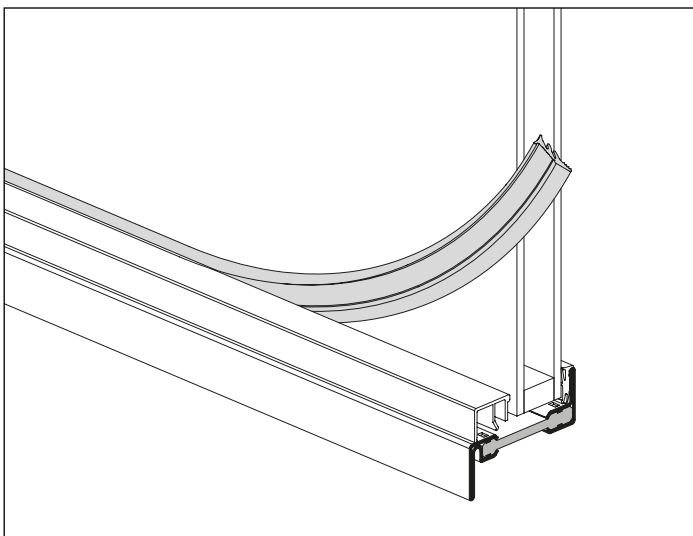
Installation instructions



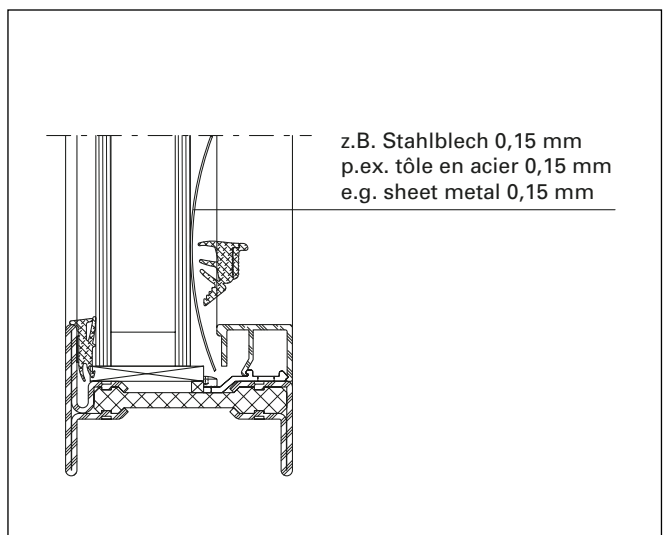
Innendichtung in Gehrung 45° schneiden
Couper le joint intérieur d'onglet 45°
Inner weather strip cut in mitre 45°



Eindrücken der Dichtung in Richtung Ecke
Enfoncement du joint en direction de l'angle
Pressing the gasket in the direction of the corner



Einbau der Innendichtung
Montage du joint intérieur
Fitting the interior weatherstrip

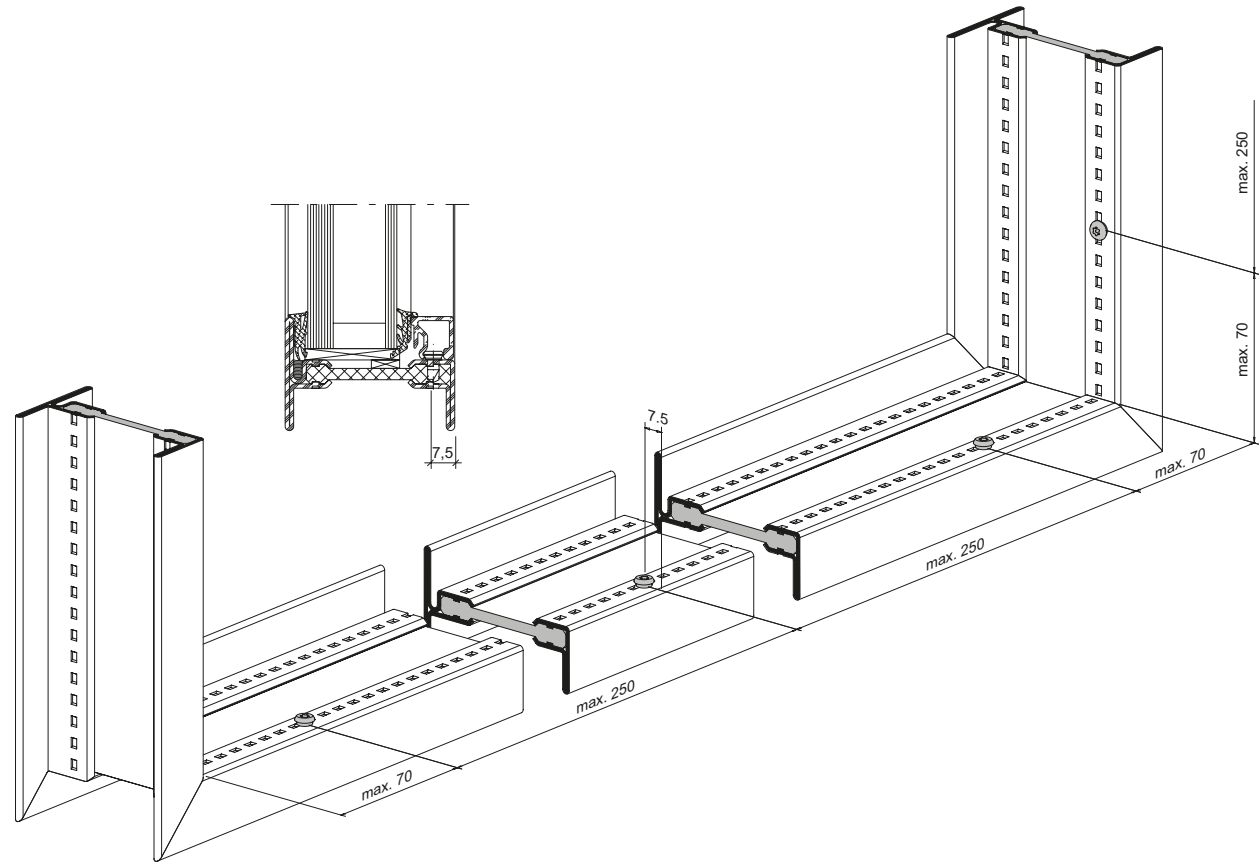


Einbauhilfe im Bereich der Glasklötze/Glasleistenhalter
Aide de montage dans la zone des cales de vitrage
Auxiliary tool in the region of the glazing bridges

Einbau Glasleisten-
Befestigungsknöpfe 450.016

Montage boutons de
fixation 450.016

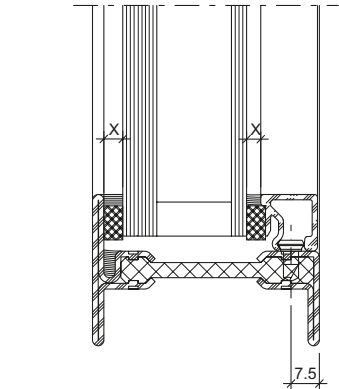
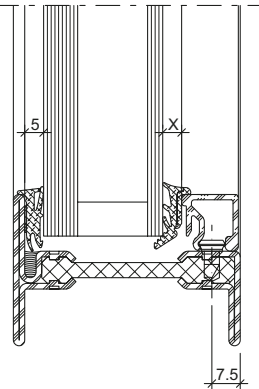
Installation fastening
studs 450.016



Bestimmung der Dichtungen
und des Falzspiels

Détermination des joints et
les jeu de feuillure

Determining weatherstrips and
rebate allowance



X:
Fugenbreite

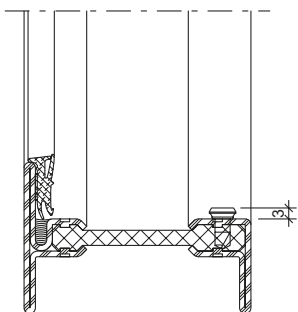
X:
Largeur de joint

X:
Width of joint

Ablaufschritte Glaseinbau

Procédure pour la pose des vitres

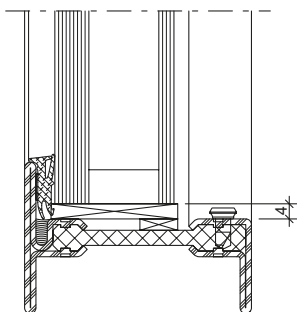
Steps in fitting glass panes



Butylkleber-Schutzfolie abziehen und Dichtung an Profillappen kleben.

Retirer la bande de protection du butyle et coller le joint sur l'aile fixe du profilé.

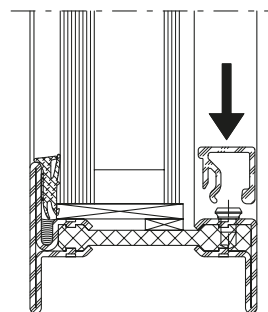
Remove the butyl adhesive protective film and stick the weatherstrip to the profile lip.



Glasklotz und Glaselement einsetzen

Poser la cale et l'élément de vitrage

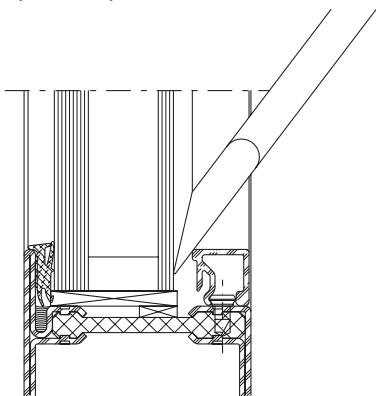
Insert glazing block and glass pane



Glasleisten allseitig aufklipsen

Clipper les parcloles sur toute la périphérie

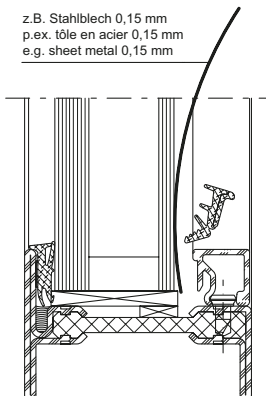
Clip on the glazing beads along all sides



Glaselement mittels Klotzungshebel vorsichtig an die äussere Anschlagdichtung drücken.

Presser le vitrage contre le joint extérieur à l'aide du levier de calage

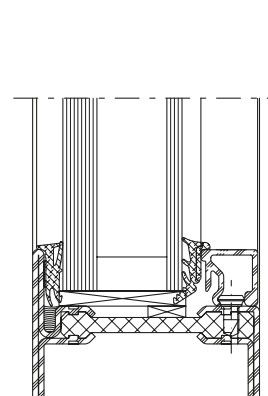
Using a pad lever, press the glazing element against the outer glass contact weatherstrip.



Dünne Stahlbleche (z.B. 0,15 mm) erleichtern das Eindrücken der Dichtungen im Bereich der Glasklötze.

Une fine tôle d'acier (par ex. 0.15 mm) facilite la rentrée du joint dans la zone de la cale.

Thin pieces of metal sheet (e.g. 0.15 mm) will assist in pressing in the weatherstrip in the vicinity of the glazing pads.



Dichtung fertig eingebaut

Joint installé

Gasket installation complete

Bedingt durch verschiedene Toleranzen (Profile, Glasleisten, Anordnung Befestigungsknöpfe, Distanzbänder und Glaselemente) empfehlen wir, die Wahl der Distanzbänder vorgängig an einem Element zu prüfen.

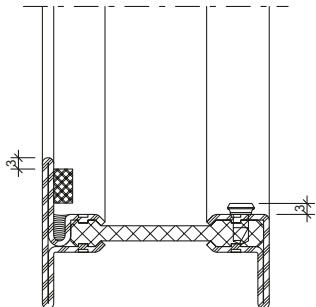
A cause des différentes tolérances (profilés, parcloles, disposition boutons de fixation, joint de vitrage et éléments vitrés) nous recommandons d'effectuer un essai préalable avec la joint de vitrage choisie sur un élément.

Owing to variations in the tolerances (profiled sections, glazing beads, layout of coupling studs, glazing weatherstrip and glazing) it is advisable to check your choice of glazing weatherstrips on an infill panel beforehand.

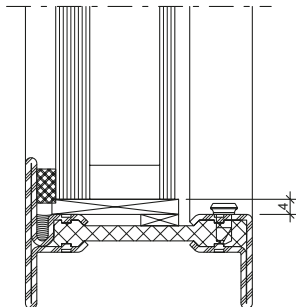
Ablaufschritte Glaseinbau

Procédure pour la pose des vitres

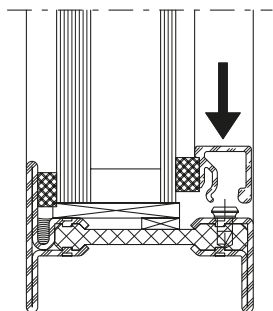
Steps in fitting glass panes



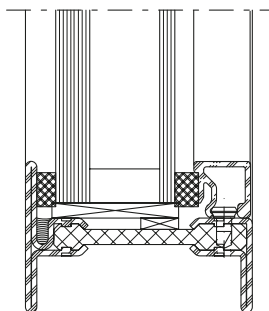
Distanzband auf Profillappen kleben
Coller la bande d'écartement sur la
battue du profilé
Attach packing strip to section flange



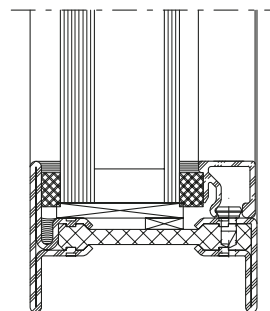
Glasklotz einsetzen
Poser la cale
Insert glazing block



Glasleiste mit aufgeklebtem
Distanzband montieren
Clipper la parclose avec la bande
d'écartement collée
Clip the glazing bead with the
glued-on packing strip on one side



Fugen innen und aussen versiegeln
Sceller le joint intérieur et extérieur
Seal the joint inside and outside



Bedingt durch verschiedene Toleranzen (Profile, Glasleisten, Anordnung Befestigungsknöpfe, Distanzbänder und Glaselemente) empfehlen wir, die Wahl der Distanzbänder vorgängig an einem Element zu prüfen.

A cause des différentes tolérances (profilés, parcloses, disposition boutons de fixation, bandes de distance et éléments vitrés) nous recommandons d'effectuer un essai préalable avec la bande de distance choisie sur un élément.

Owing to variations in the tolerances (profiled sections, glazing beads, layout of coupling studs, packing strips and glazing) it is advisable to check your choice of packing strips on an infill panel beforehand.

Betreffend Fugendimensionierung und Fugenausbildung verweisen wir auf die gültigen DIN-Normen 18545, resp. auf die Richtlinien der Glashersteller.

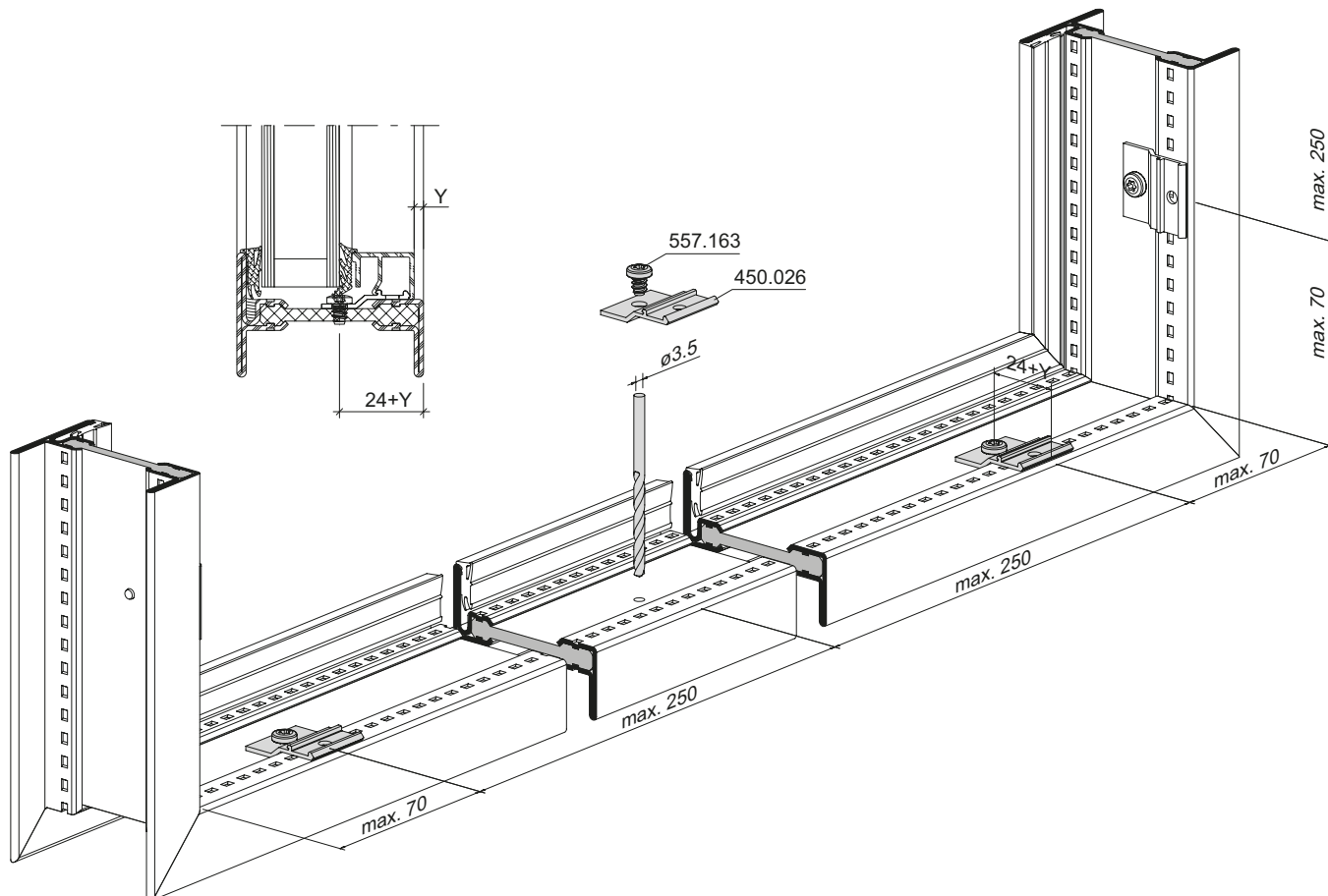
En ce qui concerne le dimensionnement et la formation des joints nous renvoyons aux norme DIN 18545 actuellement en vigueur, respectivement aux directives du fabricant de verre.

Referring to joint dimensioning and joint form we refer you to DIN standard 18545, respectively to the guidelines of glass manufacturer.

Einbau
Glasleisten-Klipsstück 450.026

Montage
clip pour parclose 450.026

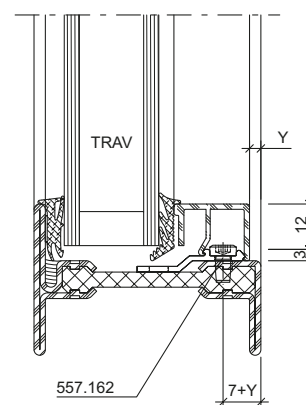
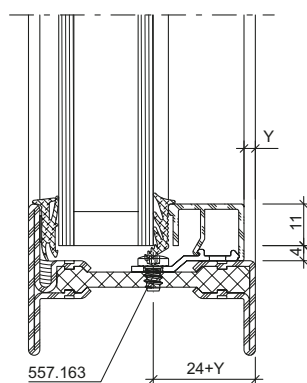
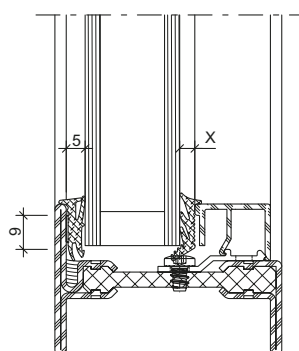
Installation
glazing bead clip 450.026



Bestimmung der Dichtungen
und des Falzspiels

Détermination des joints et
les jeu de feuillure

Determining weatherstrips and
rebate allowance



Aluminium-Glasleiste
Parclose en aluminium
Aluminium glazing bead

Aluminium-Glasleiste
Parclose en aluminium
Aluminium glazing bead

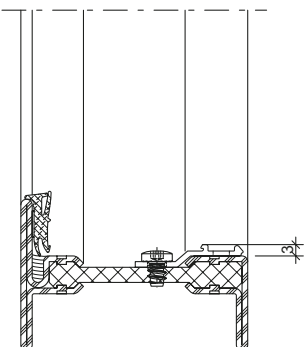
Falzspiel
Jeu de feuillure
Rebate allowance

X:
Fugenbreite

X:
Largeur de joint

X:
Width of joint

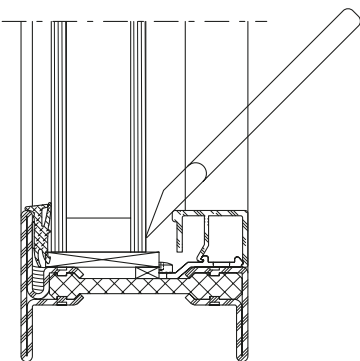
Ablaufschritte Glaseinbau



Butylkleber-Schutzfolie abziehen und Dichtung an Profillappen kleben.

Retirer la bande de protection du butyle et coller le joint sur l'aile fixe du profilé.

Remove the butyl adhesive protective film and stick the weatherstrip to the profile lip.



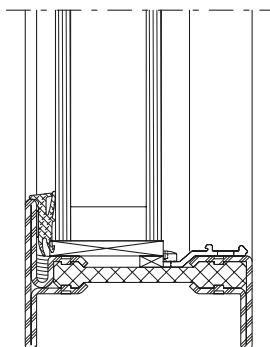
Glaselement mittels Klotzungshebel vorsichtig an die äussere Anschlagdichtung drücken.

Presser le vitrage contre le joint extérieur à l'aide du levier de calage

Using a pad lever, press the glazing element against the outer glass contact weatherstrip.

Bedingt durch verschiedene Toleranzen (Profil, Glasleisten, Anordnung Befestigungsknöpfe, Glasdichtung und Glaselemente) empfehlen wir, die Wahl der Glasdichtungen vorgängig an einem Element zu prüfen.

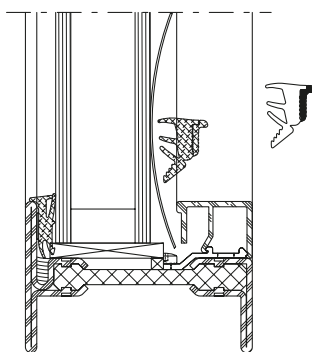
Procédure pour la pose des vitres



Glasklotz und Glaselement einsetzen

Poser la cale et l'élément de vitrage

Insert glazing block and glass pane



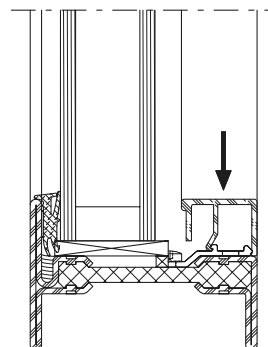
Dünne Stahlbleche (z.B. 0,15 mm) erleichtern das Eindrücken der Dichtungen im Bereich der Glasklötze.

Une fine tôle d'acier (par ex. 0.15 mm) facilite la rentrée du joint dans la zone de la cale.

Thin pieces of metal sheet (e.g. 0.15 mm) will assist in pressing in the weatherstrip in the vicinity of the glazing pads.

A cause des différentes tolérances (profilés, parcloses, disposition boutons de fixation, joint de vitrage et éléments vitrés) nous recommandons d'effectuer un essai préalable avec la joint de vitrage choisie sur un élément.

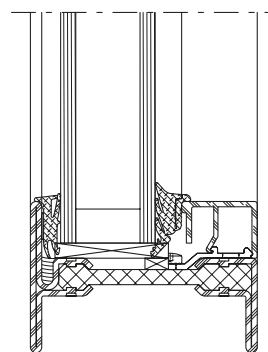
Steps in fitting glass panes



Glasleisten allseitig aufklipsen

Clipper les parcloses sur toute la périphérie

Clip on the glazing beads along all sides



Dichtung fertig eingebaut

Joint installé

Gasket installation complete

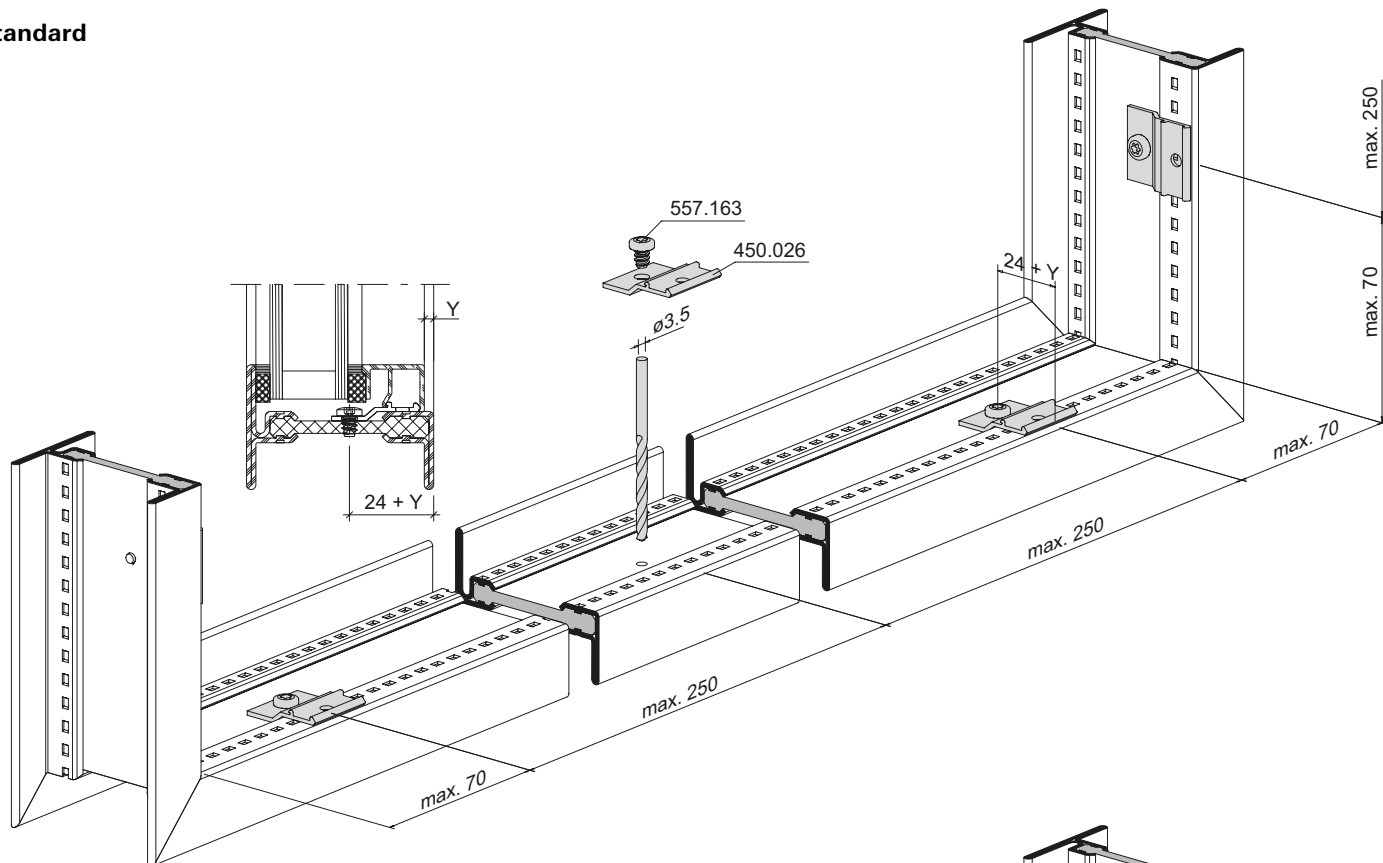
Owing to variations in the tolerances (profiled sections, glazing beads, layout of coupling studs, glazing weatherstrip and glazing) it is advisable to check your choice of glazing weatherstrips on an infill panel beforehand.

Einbau Glasleisten-Klipsstück
450.026

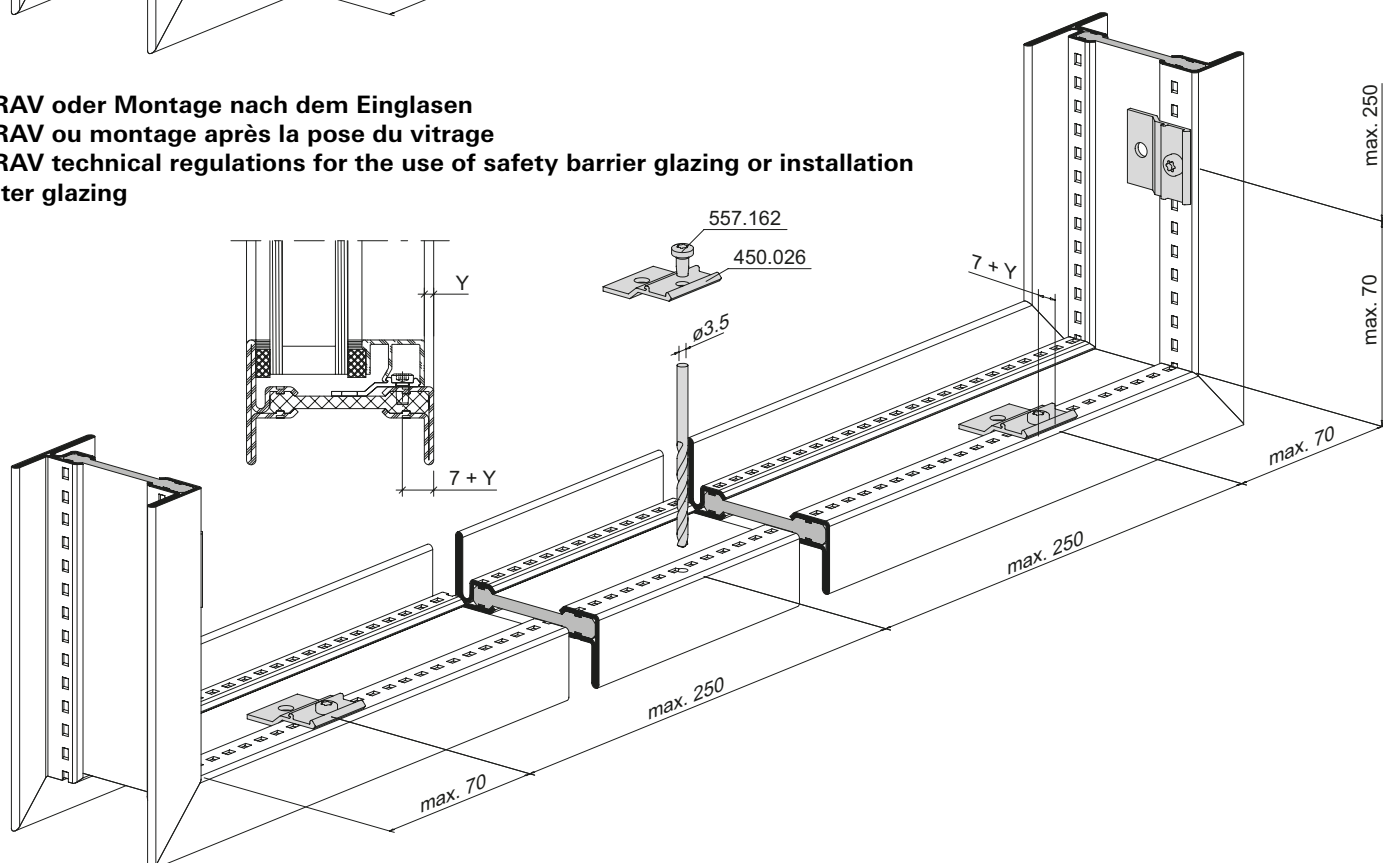
Montage clip pour parclose 450.026

Installation of glazing bead clip
450.026

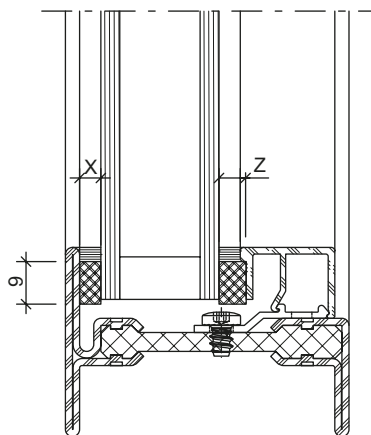
Standard



TRAV oder Montage nach dem Einglasen
TRAV ou montage après la pose du vitrage
TRAV technical regulations for the use of safety barrier glazing or installation
after glazing



Bestimmung der Distanzbänder und des Falzspiels



Bestimmung Distanzband
Détermination des bandes d'écartement
Determining packing strips

X:
Distanzbanddicke =
Fugenbreite

Z:
Distanzbanddicke =
Fugenbreite + 1 mm

Y = max. 5 mm

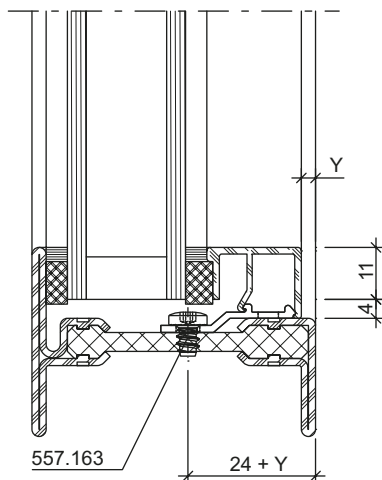
Betreffend Fugendimensionierung und Fugenausbildung verweisen wir auf die gültigen DIN-Normen 18545, resp. auf die Richtlinien der Glashersteller.

Glasbestellung

Glaslieferanten auf die minimale Estandtiefe hinweisen.
Randverbund möglichst klein.

Bedingt durch verschiedene Toleranzen (Profile, Glasleisten, Anordnung Befestigungsknöpfe, Distanzbänder und Glaselemente) empfehlen wir, die Wahl der Distanzbänder vorgängig an einem Element zu prüfen.

Détermination des bandes d'écartement et les jeu de feuillure



Falzspiel
Jeu de feuillure
Rebate allowance

X:
Epaisseur de la bande d'écartement =
Largeur de joint

Z:
Epaisseur de la bande d'écartement =
Largeur de joint + 1 mm

Y = max. 5 mm

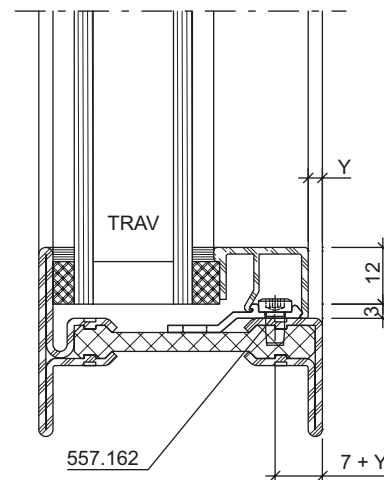
En ce qui concerne le dimensionnement et la formation des joints nous renvoyons aux directives la norme DIN 18545 actuellement en vigueur, respectivement aux directives du fabricant de verre.

Commande de vitrage

Signaler la profondeur de prise en feuillure minimale aux fournisseurs de vitrage. Scellement le plus petit possible.

A cause des différentes tolérances (profilés, parcloles, disposition boutons de fixation, bandes de distance et éléments vitrés) nous recommandons d'effectuer un essai préalable avec la bande de distance choisie sur un élément.

Determining packing strips and rebate allowance



X:
Thickness of packing strip =
Width of joint

Z:
Thickness of packing strip =
Width of joint + 1 mm

Y = max. 5 mm

Referring to joint dimensioning and joint form we refer you to the current DIN standard 18545, respectively to the guidelines of glass manufacturer.

Glass order

Advise the glass supplier of the minimum edge cover depth. Edge seal as small as possible.

Owing to variations in the tolerances (profiled sections, glazing beads, layout of coupling studs, packing strips and glazing) it is advisable to check your choice of packing strips on an infill panel beforehand.

**Einbau Füllelemente
 mittels Nassverglasung
 (Versiegelung)**

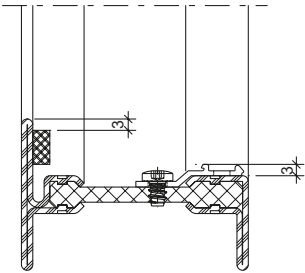
**Montage éléments de remplissage
 avec vitrage au silicone**

**Installation infill elements with
 glazing with sealing compounds**

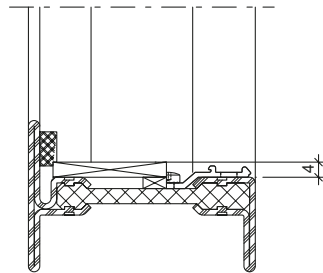
Ablaufschritte Glaseinbau

Procédure pour la pose des vitres

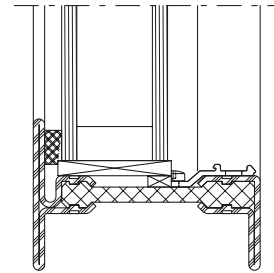
Steps in fitting glass panes



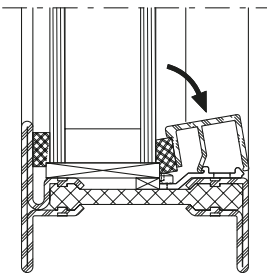
Distanzband auf Profillappen kleben
 Coller la bande d'écartement sur la
 battue du profilé
 Attach packing strip to section flange



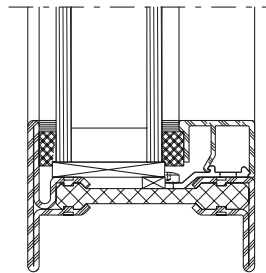
Glasklotz einsetzen
 Poser la cale
 Insert glazing block



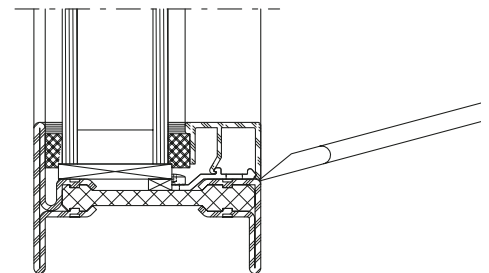
Glasэлемент einsetzen
 Poser l'élément de vitrage
 Insert glass pane



Glasleiste mit aufgeklebtem
 Distanzband montieren
 Clipser la parclose avec la bande
 d'écartement collée
 Clip the glazing bead with the
 glued-on packing strip on one side



Fugen innen und aussen versiegeln
 Sceller le joint intérieur et extérieur
 Seal the joint inside and outside



Démontage
 Silikonfuge auf ganzer Länge
 aufschneiden. Mit einem Kunststoff-
 keil die Glasleiste an einem Ende
 leicht vom Profil anheben und die
 geklemmte Keilspitze zum anderen
 Ende der Glasleiste ziehen.

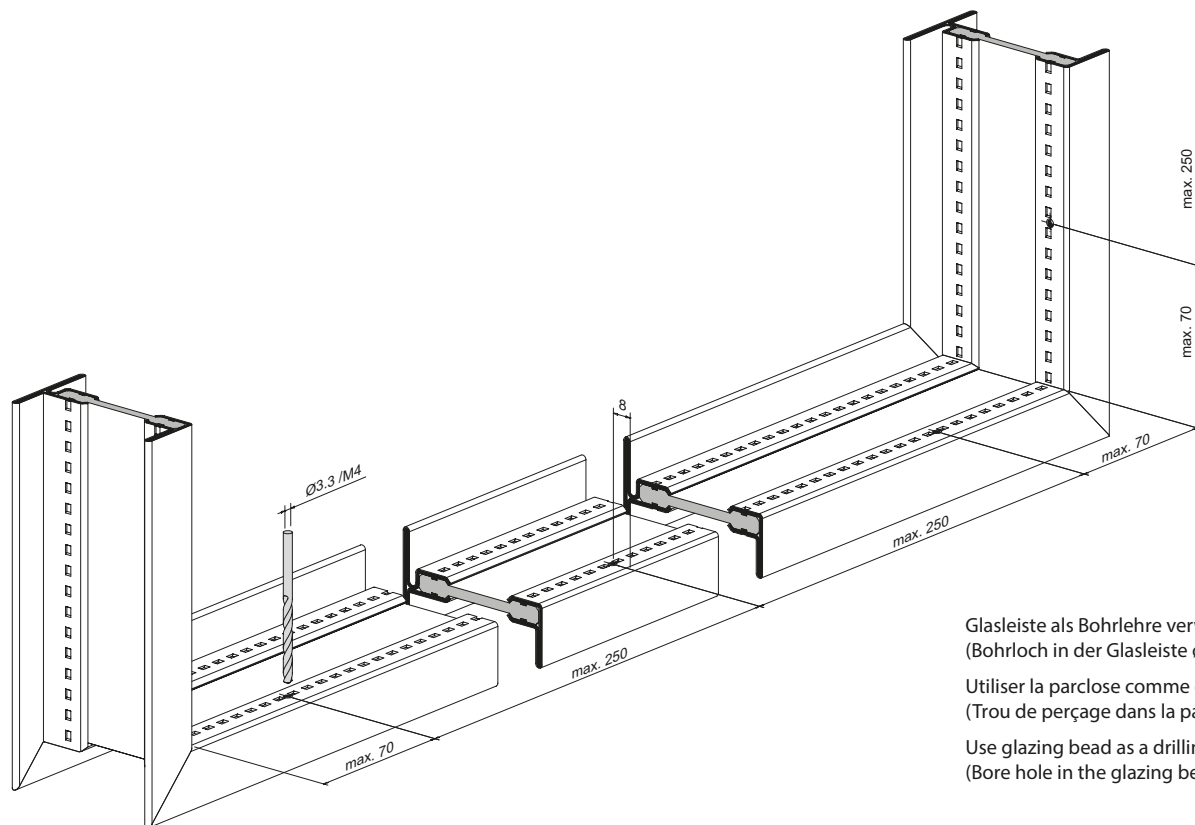
Démontage
 Couper le joint en silicone sur toute
 sa longueur. Soulever légèrement
 l'extrémité de la parclose du profilé à
 l'aide d'une cale en plastique et tirer la
 pointe biseautée vers l'autre extrémité
 de la parclose.

Dismantling
 Cut open silicon joint along entire
 length. Slightly lift the glazing bead
 from the profile at one end using a
 plastic wedge and push the thin end
 of the wedge to the other end of the
 glazing bead.

Einbau Winkel- und
Winkelkontur-Stahlglasleisten

Montage parcloles en acier angulaire
et à contour angulaire

Installation angle and angle contour
steel glazing beads



Glasleiste als Bohrlehre verwenden
(Bohrloch in der Glasleiste $\varnothing$ 4 mm)

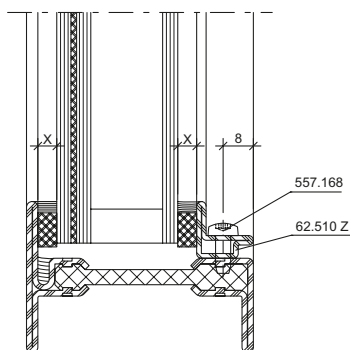
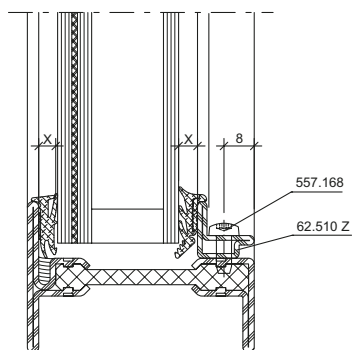
Utiliser la parclose comme gabarit de perçage
(Trou de perçage dans la parclose $\varnothing$ 4 mm)

Use glazing bead as a drilling jig
(Bore hole in the glazing bead $\varnothing$ 4 mm)

Bestimmung der Dichtungen
und des Falzspiels

Détermination des joints et
les jeu de feuillure

Determining weatherstrips and
rebate allowance



X:
Fugenbreite

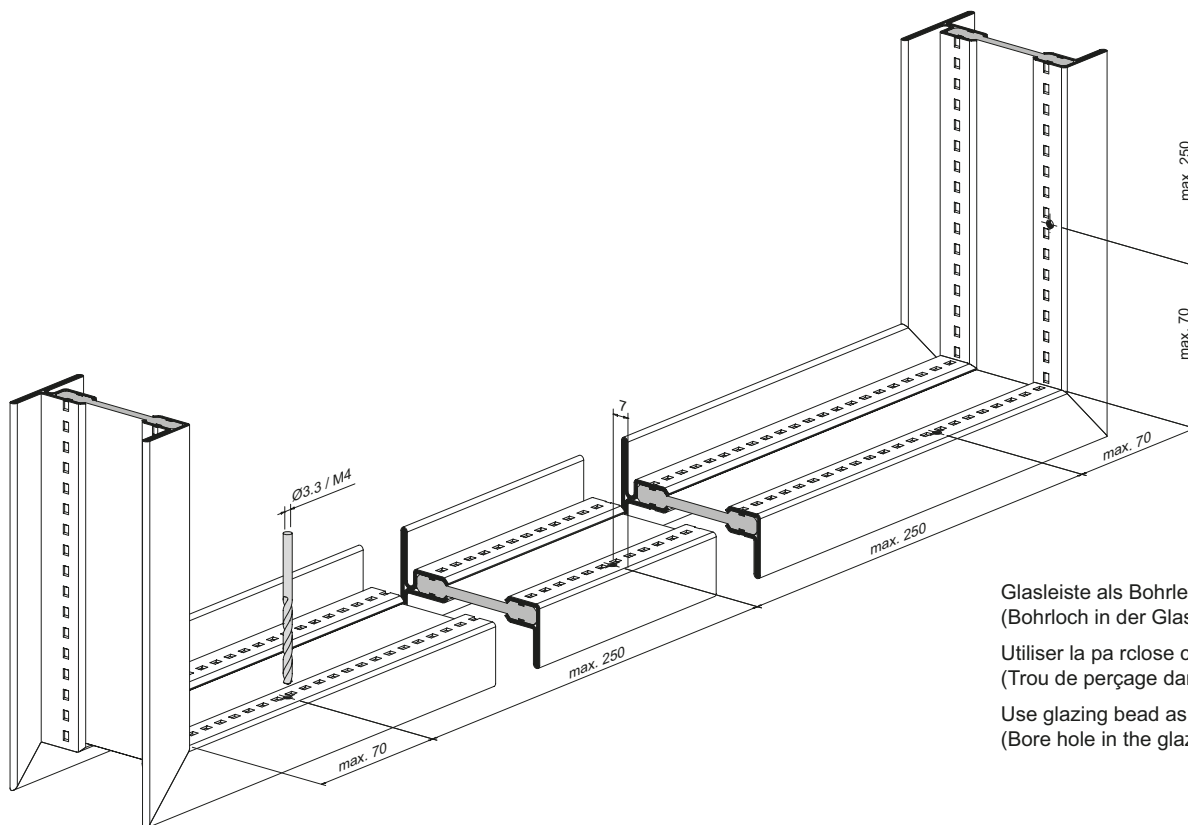
X:
Largeur de joint

X:
Width of joint

Einbau Winkel- und
Winkelkontur-Stahlglasleisten

Montage parclose en acier angulaire
et à contour angulaire

Installation angle and angle contour
steel glazing beads



Glasleiste als Bohrlehre verwenden
(Bohrloch in der Glasleiste $\varnothing$ 4 mm)

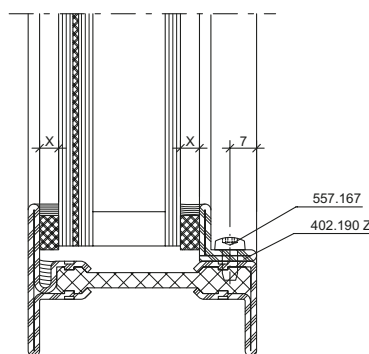
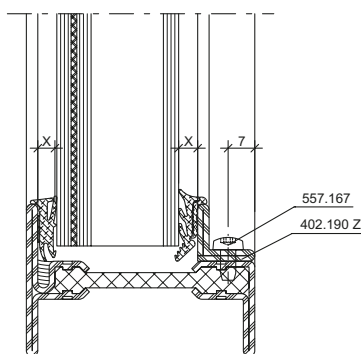
Utiliser la parclose comme gabarit de perçage
(Trou de perçage dans la parclose $\varnothing$ 4 mm)

Use glazing bead as a drilling jig
(Bore hole in the glazing bead $\varnothing$ 4 mm)

Bestimmung der Dichtungen
und des Falzspiels

Détermination des joints et
les jeu de feuillure

Determining weatherstrips and
rebate allowance



X:
Fugenbreite

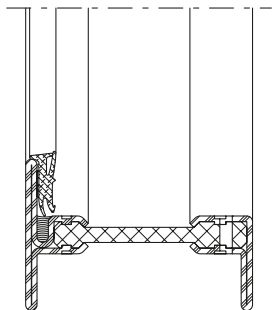
X:
Largeur de joint

X:
Width of joint

Ablaufschritte Glaseinbau

Procédure pour la pose des vitres

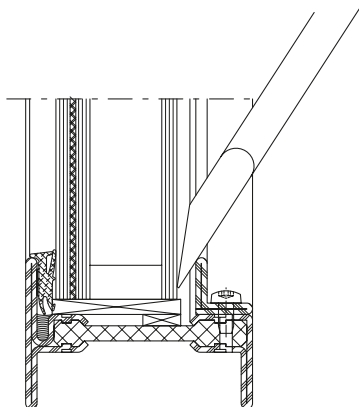
Steps in fitting glass panes



Butylkleber-Schutzfolie abziehen und Dichtung an Profillappen kleben.

Retirer la bande de protection du butyle et coller le joint sur l'aile fixe du profilé.

Remove the butyl adhesive protective film and stick the weatherstrip to the profile lip.

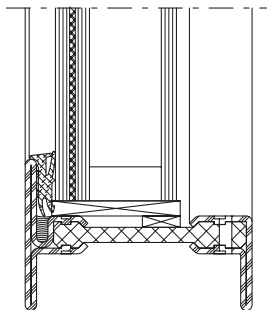


Glaselement mittels Klotzungshebel vorsichtig an die äussere Anschlagdichtung drücken.

Presser le vitrage contre le joint extérieur à l'aide du levier de calage

Using a pad lever, press the glazing element against the outer glass contact weatherstrip.

Bedingt durch verschiedene Toleranzen (Profil, Glasleisten, Anordnung Befestigungsknöpfe, Glasdichtung und Glaselemente) empfehlen wir, die Wahl der Glasdichtungen vorgängig an einem Element zu prüfen.

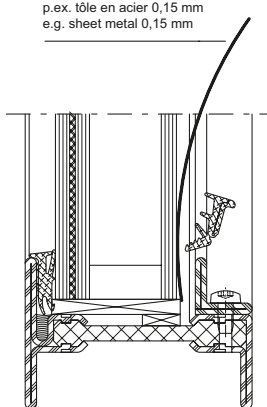


Glasklotz und Glaselement einsetzen

Poser la cale et l'élément de vitrage

Insert glazing block and glass pane

z.B. Stahlblech 0,15 mm
 p.ex. tôle en acier 0,15 mm
 e.g. sheet metal 0,15 mm

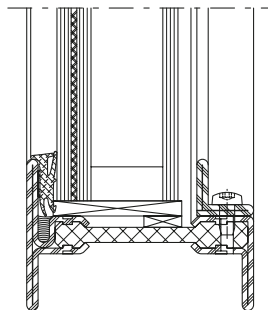


Dünne Stahlbleche (z.B. 0,15 mm) erleichtern das Eindrücken der Dichtungen im Bereich der Glasklötze.

Une fine tôle d'acier (par ex. 0.15 mm) facilite la rentrée du joint dans la zone de la cale.

Thin pieces of metal sheet (e.g. 0.15 mm) will assist in pressing in the weatherstrip in the vicinity of the glazing pads.

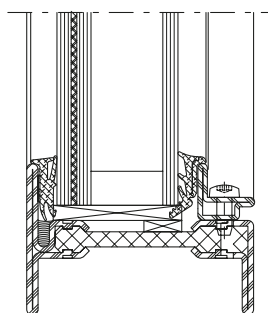
A cause des différentes tolérances (profilés, parcloles, disposition boutons de fixation, joint de vitrage et éléments vitrés) nous recommandons d'effectuer un essai préalable avec la joint de vitrage choisie sur un élément.



Glasleisten allseitig montieren

Monter les parcloles sur toute la périphérie

Installing the glazing beads along all sides



Dichtung fertig eingebaut

Joint installé

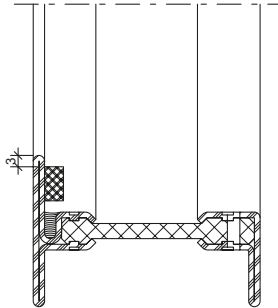
Gasket installation complete

Owing to variations in the tolerances (profiled sections, glazing beads, layout of coupling studs, glazing weatherstrip and glazing) it is advisable to check your choice of glazing weatherstrips on an infill panel beforehand.

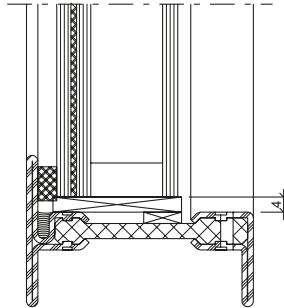
Ablaufschritte Glaseinbau

Procédure pour la pose des vitres

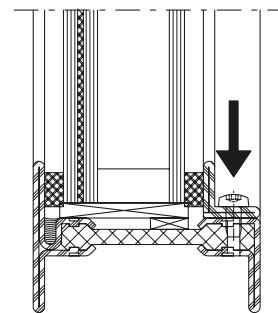
Steps in fitting glass panes



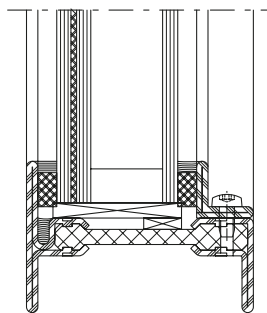
Distanzband auf Profillappen kleben
Coller la bande d'écartement sur la battue du profilé
Attach packing strip to section flange



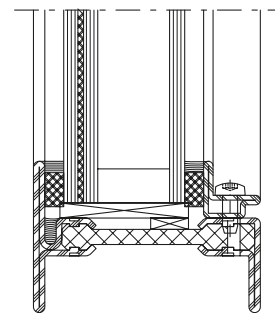
Glasklotz einsetzen
Poser la cale
Insert glazing block



Glasleiste mit aufgeklebtem Distanzband montieren
Monter la parclose avec la bande d'écartement collée
Installing the glazing bead with the glued-on packing strip on one side



Fugen innen und aussen versiegeln
Sceller le joint intérieur et extérieur
Seal the joint inside and outside



Bedingt durch verschiedene Toleranzen (Profile, Glasleisten, Anordnung Befestigungsknöpfe, Distanzbänder und Glaselemente) empfehlen wir, die Wahl der Distanzbänder vorgängig an einem Element zu prüfen.

A cause des différentes tolérances (profilés, parclose, disposition boutons de fixation, bandes de distance et éléments vitrés) nous recommandons d'effectuer un essai préalable avec la bande de distance choisie sur un élément.

Owing to variations in the tolerances (profiled sections, glazing beads, layout of coupling studs, packing strips and glazing) it is advisable to check your choice of packing strips on an infill panel beforehand.

Betreffend Fugendimensionierung und Fugenausbildung verweisen wir auf die gültigen DIN-Normen 18545, resp. auf die Richtlinien der Glashersteller.

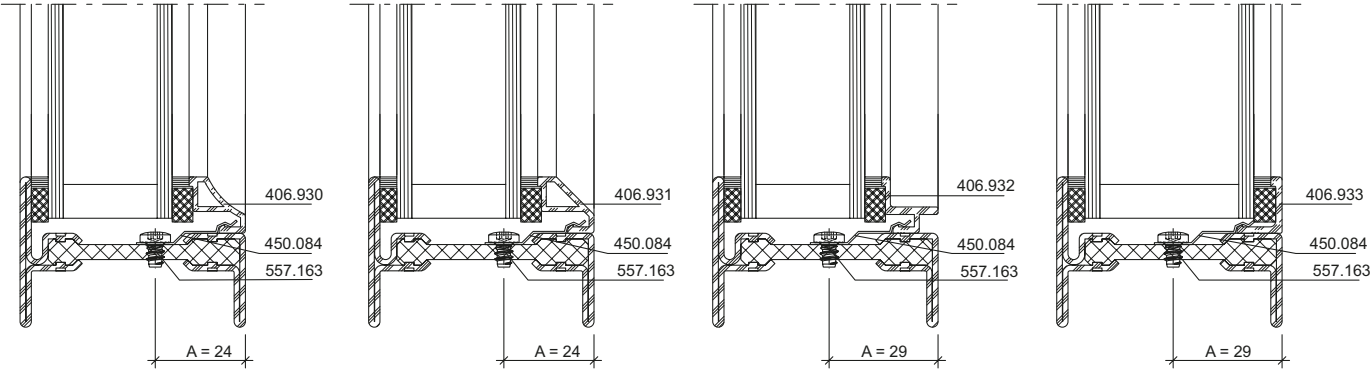
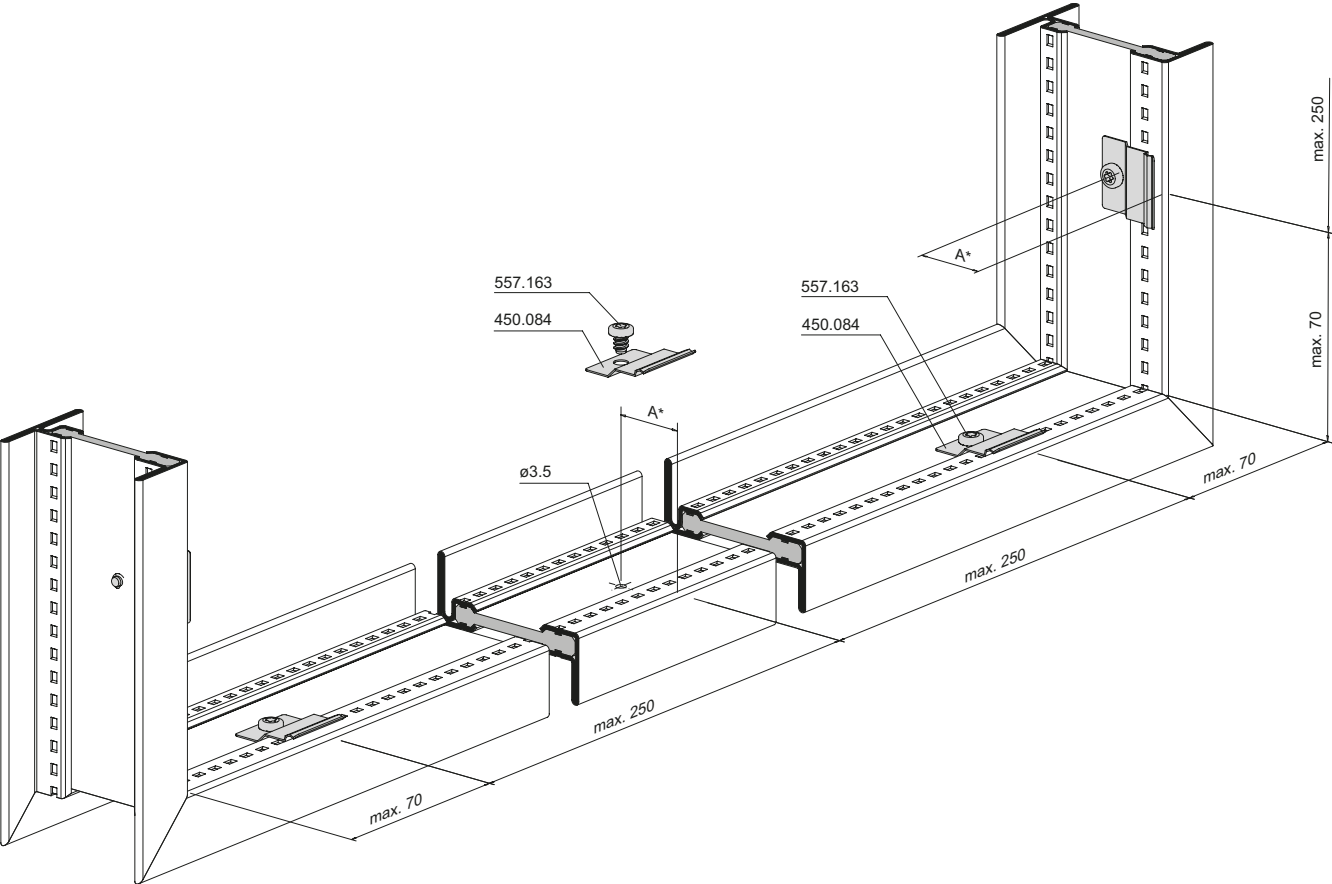
En ce qui concerne le dimensionnement et la formation des joints nous renvoyons aux norme DIN 18545 actuellement en vigueur, respectivement aux directives du fabricant de verre.

Referring to joint dimensioning and joint form we refer you to DIN standard 18545, respectively to the guidelines of glass manufacturer.

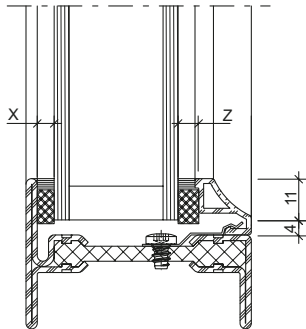
Einbau Befestigungsfeder 450.084

Montage ressort de fixation 450.084

Installation fastening spring
450.084



Bestimmung der Distanzbänder und des Falzspiels



X:
Distanzbanddicke =
Fugenbreite

Z:
Distanzbanddicke =
Fugenbreite + 1 mm

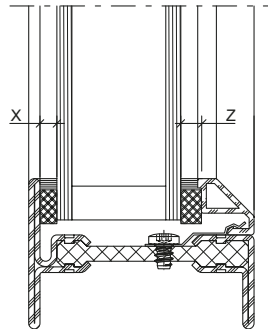
*Betreffend Fugendimensionierung
und Fugenausbildung verweisen wir
auf die gültigen DIN-Normen 18545,
resp. auf die Richtlinien der Glas-
hersteller.*

Glasbestellung

Glaslieferanten auf die minimale
Einstandtiefe hinweisen.
Randverbund möglichst klein.

*Bedingt durch verschiedene Toleranzen
Profile, Glasleisten, Anordnung
Befestigungsknöpfe, Distanzbänder
und Glaselemente) empfehlen wir, die
Wahl der Distanzbänder vorgängig an
einem Element zu prüfen.*

Détermination des bandes d'écartement et les jeu de feuillure



X:
Epaisseur de la bande d'écartement =
Largeur de joint

Z:
Epaisseur de la bande d'écartement =
Largeur de joint + 1 mm

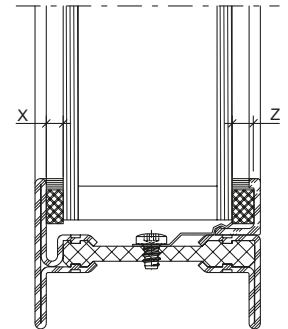
*En ce qui concerne le dimensionne-
ment et la formation des joints nous
renvoyons aux directives la norme
DIN 18545 actuellement en vigueur,
respectivement aux directives du
fabricant de verre.*

Commande de vitrage

Signaler la profondeur de prise en
feuillure minimale aux fournisseurs
de vitrage. Scellement le plus petit
possible.

*A cause des différentes tolérances
(profilés, parcloles, disposition boutons
de fixation, bandes de distance et
éléments vitrés) nous recommandons
d'effectuer un essai préalable avec la
bande de distance choisie sur un
élément.*

Determining packing strips and rebate allowance



X:
Thickness of packing strip =
Width of joint

Z:
Thickness of packing strip =
Width of joint + 1 mm

*Referring to joint dimensioning and
joint form we refer you to the current
DIN standard 18545, respectively to
the guidelines of glass manufacturer.*

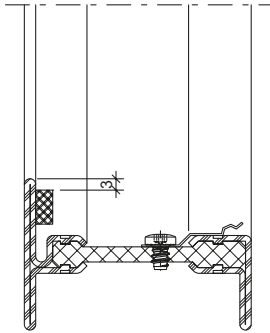
Glass order

Advise the glass supplier of the
minimum edge cover depth. Edge
seal as small as possible.

*Owing to variations in the tolerances
(profiled sections, glazing beads,
layout of coupling studs, packing strips
and glazing) it is advisable to check
your choice of packing strips on an
infill panel beforehand.*

**Einbau Füllelemente
 mittels Nassverglasung
 (Versiegelung)**

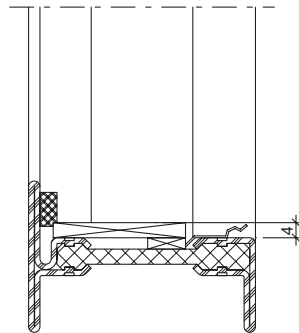
Ablaufschritte Glaseinbau



Distanzband auf Profillappen kleben
 Coller la bande d'écartement sur la
 battue du profilé
 Attach packing strip to section flange

**Montage éléments de remplissage
 avec vitrage au silicone**

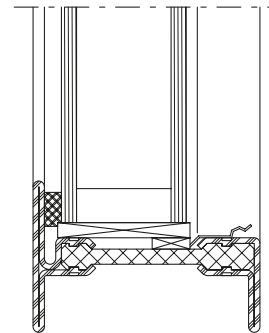
Procédure pour la pose des vitres



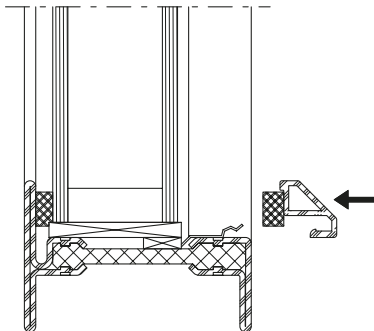
Glasklotz einsetzen
 Poser la cale
 Insert glazing block

**Installation infill elements with
 glazing with sealing compounds**

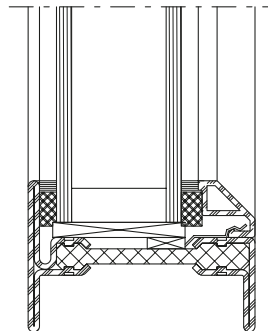
Steps in fitting glass panes



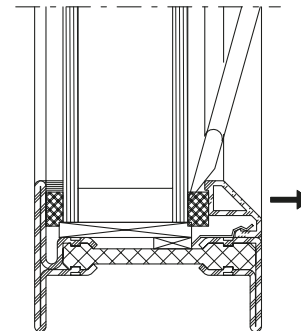
Glaselement einsetzen
 Poser l'élément de vitrage
 Insert glass pane



Glasleiste mit aufgeklebtem
 Distanzband montieren
 Clipser la parclose avec la bande
 d'écartement collée
 Clip the glazing bead with the
 glued-on packing strip on one side



Fugen innen und aussen versiegeln
 Sceller le joint intérieur et extérieur
 Seal the joint inside and outside



Demontage
 Silikonfuge auf ganzer Länge
 aufschneiden. Mit einem Kunststoff-
 keil die Glasleiste an einem Ende
 leicht vom Glas abstossen.

Démontage
 Couper le joint en silicone sur toute
 sa longueur. Repousser légèrement la
 parclose du verre à une extrémité avec
 une cale en plastique.

Dismantling
 Cut open silicon joint along entire
 length. Slightly lift the glazing bead
 from the glass at one end using a
 plastic wedge.

**Renoseal - dauerelastischer
Dichtstoff für Verglasungen mit
Janisol Arte**

Renoseal ist ein dauerelastischer Dichtstoff für Verglasungen, womit das Erscheinungsbild der freiliegenden Dreieck-Fase erstellt werden kann. Die Janisol Arte 2.0 Profilsérie wurde mit Renoseal geprüft um spezielle Anforderungen bei der Sanierung von Industrie- und Loftverglasungen sowie von denkmalgeschützten Fenstern erfüllen zu können.

Eigenschaften

- Durch die spezielle Viskositäts-einstellung hervorragend geeignet für Janisol Arte Verglasungen
- Geprüftes, dauerelastisches Verglasungssystem
- 7 Standardfarben erhältlich
- Ab 75 Kartuschen sind RAL/NCS Farben erhältlich
- Verträglich mit dem Isolierglas-Randverbund und den VSG-Folien
- Hervorragende Witterungsbeständigkeit

Normen

- EN 15651-2 G: CE-Kennzeichnung für Verglasungen
- EN 1991-1-1+C1/NB: Sicherheitsverglasung (SKG)
- EN 1026: Luftdurchlässigkeit (SKG-IKOB)
- EN 1027: Wasserdicht (SKG-IKOB)
- EN 12211: Widerstand gegen Windlast (SKG-IKOB)
- Nationale Verglasungsrichtlinien sind zu beachten

Verträglichkeit

Die Praxis- und Labortests von u.a. Henkel-Teroson haben bestätigt, dass Renoseal mit Isolierglas-Verbund verträglich ist. Für unbekannte Isoliergläser bitte Rücksprache mit dem technischen Service von Bloem Sealants oder mit ihrem Isolierglas-Lieferanten nehmen.

Einbau

Als Sicherung der Glaselemente wurden pro Glasscheibe vier Edelstahlwinkel pro Kante mittig eingebaut. Dimension: 13x10x1-30 mm resp. 10x10x1-30 mm. Siehe Prüfbericht Nr. 16-001525-PR12 (PB-A01-02de-01).

**Renoseal - produit d'étanchéité à
l'élasticité permanente pour les
vitrages avec Janisol Arte**

Renoseal est un produit d'étanchéité à l'élasticité permanente pour les vitrages qui permet de créer l'apparence d'un biseau triangulaire dégagé. La série de profilés Janisol Arte 2.0 a été testée avec Renoseal afin de satisfaire à des exigences spéciales de rénovation de vitrages industriels et de lofts ainsi que de fenêtres classées monument historique

Propriétés

- Excellent pour les vitrages Janisol Arte grâce au réglage spécial de la viscosité
- Système de vitrage contrôlé, à l'élasticité permanente
- 7 couleurs standard disponibles
- Des couleurs RAL/NCS sont disponibles à partir de 75 cartouches
- Compatible avec le scellement de verre isolant et les films VSG
- Excellente résistance aux intempéries

Normes

- EN 15651-2 G: marquage CE pour vitrages
- EN 1991-1-1+C1/NB: vitrage de sécurité (SKG)
- EN 1026: perméabilité à l'air (SKG-IKOB)
- EN 1027: étanchéité à l'eau (SKG-IKOB)
- EN 12211: résistance au vent (SKG-IKOB)
- Respecter les directives nationales pour les vitrages

Compatibilité

Les tests dans la pratique et en laboratoire, entre autres de Henkel-Teroson, ont confirmé que Renoseal est compatible avec du verre isolant composite. Pour les verres isolants inconnus, veuillez contacter le service technique de Bloem Sealants ou votre fournisseur de verre isolant.

Montage

Quatre équerres en acier inox par arête ont été montées de manière centrée pour chaque vitre comme fixation des éléments vitrés. Dimension: 13x10x1-30 mm ou 10x10x1-30 mm. Voir rapport d'essai n° 16-001525-PR12 (PB-A01-02-de-01).

**Renoseal – permanently elastic
sealing compound for glazing with
Janisol Arte**

Renoseal is a permanently elastic sealing compound for glazing which can be used to create the appearance of an exposed triangular chamfer. The Janisol Arte 2.0 profile series was tested with Renoseal in order to meet specific requirements for the renovation of industrial and loft glazing, as well as the windows of listed buildings.

Features

- Ideal for Janisol Arte glazing thanks to the special viscosity adjustment
- Tested, permanently elastic glazing system
- 7 standard colours available
- RAL/NCS colours are available from 75 cartridges
- Compatible with the insulating glass edge seal and the LSG foils
- Outstanding weathering resistance

Standards

- EN 15651-2 G: CE marking for glazing
- EN 1991-1-1+C1/NB: Security glazing (SKG)
- EN 1026: Air permeability (SKG-IKOB)
- EN 1027: Watertight (SKG-IKOB)
- EN 12211: Resistance to windload (SKG-IKOB)
- Observe the national glazing guidelines

Compatibility

The practical and laboratory tests by Henkel-Teroson, amongst others, have confirmed that Renoseal is compatible with insulating glass composites. For unknown insulating glass, please consult Technical Services at Bloem Sealants or your insulating glass supplier.

Installation

To secure the glazed units, four stainless steel brackets per edge were installed in the centre.

Dimensions: 13x10x1-30 mm and 10x10x1-30 mm.

See test report No. 16-001525-PR12 (PB-A01-02-de-01).

**Technische Daten bei
20°C und 60% (relative Feuchtigkeit)**

Verarbeitungstemperatur: +5°C bis 30°C
Temperaturbeständigkeit: -40°C bis 120°C
Dichte: 1,3 g/ml
Hautbildung: 25-30 min.
Volumenschwund (ISO 510563): < 3%
Härte (DIN 5305): ± 45 Shore-A
Durchhärtung 24 Stunden: 3 mm / 6 mm
Konsistenz (ISO 7390): Standfest
E-Module 100% (DIN 53504): 1,1 N/mm ²
Zugfestigkeit (DIN 53504): 1,377 N/mm ²
Bruchdehnung: 174%
Zulässige Gesamtverformung: 7,5%

Lagerung

Kühl und trocken lagern (5°C < 25°C).
Mindestens 9 Monate lagerstabil in
der Originalverpackung.

Weitere Produktinformationen
erhalten Sie direkt beim Hersteller:
www.bloemsealants.com

Unsere Angaben beruhen auf Erfahrungen in Labor und Praxis. Die Anwendungsbedingungen, die auf unsere Angaben zurückzuführen sind, liegen ausserhalb unserer Kontrolle, wodurch ihre Veröffentlichung ohne Übernahme einer Haftung für Schäden und Verluste erfolgt. Der Verwender ist nicht von der Notwendigkeit entbunden, eigene Versuche für die vorgesehenen Anwendungen durchzuführen. Aufgrund der unterschiedlichen Materialien, Verarbeitungsmethoden und örtlichen Gegebenheiten auf die wir keinen Einfluss haben, kann keine Garantie übernommen werden. Wir empfehlen daher ausreichende Eigenversuche. Für unsere Empfehlungen und Gebrauchsvorschriften gelten die allgemeinen Bedingungen von Bloem Sealants BV. Änderungen vorbehalten.

**Caractéristiques techniques à
20 °C et 60 % de HR**

Température d'application: +5°C à 30°C
Résistance thermique: -40°C à 120°C
Densité: 1,3 g/ml
Formation de peau: 25 à 30 min.
Contraction du volume (ISO 510563): < 3%
Dureté (DIN 5305): ± 45 Shore-A
Trempe uniforme 24 heures: 3 mm / 6 mm
Consistance (ISO 7390): solide
Module élastique 100% (DIN 53504): 1,1 N/mm ²
Résistance à la traction (DIN 53504): 1,377 N/mm ²
Allongement à la rupture: 174%
Déformation totale autorisée: 7,5%

Stockage

Stocker au frais et au sec (5°C < 25°C).
Stable au stockage pendant au moins 9
mois dans l'emballage original.

De plus amples informations produit
sont disponibles auprès du fabricant:
www.bloemsealants.com

Nos informations se basent sur des expériences en laboratoire et dans la pratique. Les conditions d'application qui renvoient à nos informations sont indépendantes de notre contrôle, leur publication n'est donc soumise à aucune responsabilité en cas de dommage et de pertes. L'utilisateur n'est pas dispensé de la nécessité de réaliser ses propres tests pour les applications prévues. Nous déclinons toute garantie en raison des différents matériaux, méthodes d'usage et conditions locales sur lesquelles nous n'avons aucune influence. Nous recommandons donc de procéder à un nombre suffisant de tests. Les conditions générales de Bloem Sealants BV sont applicables pour nos recommandations et prescriptions d'utilisation. Sous réserve de modifications.

**Technical data at
20°C and 60% RH**

Fabrication temperature: +5°C to 30°C
Temperature resistance: -40°C to 120°
Density: 1.3 g/ml
Skin formation: 25-30 min.
Volume shrinkage (ISO 510563): < 3%
Hardness (DIN 5305): ± 45 Shore-A
Complete curing 24 hours: 3 mm / 6 mm
Consistency (ISO 7390): Stable
Modulus of elasticity 100% (DIN 53504): 1.1 N/mm ²
Tensile strength (DIN 53504): 1.377 N/mm ²
Elongation at break: 174%
Permissible total deformation: 7.5%

Storage

Store in a cool, dry place (5°C < 25°C).
Can be stored in the original packaging
for at least 9 months.

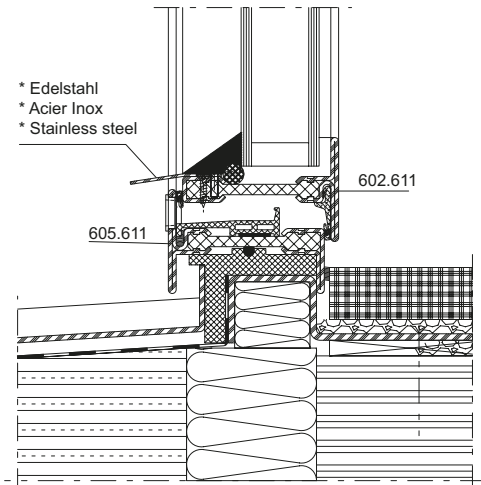
Further product information can be
obtained directly from the manu-
facturer: www.bloemsealants.com

Our specifications are based on laboratory and practical experience. The conditions of use, which are a result of our specifications, are beyond our control, and are published without assumption of liability for loss or damages. The user must carry out their own tests for the intended applications. Due to the different materials, fabrication methods and local conditions, over which we have no influence, no guarantee can be assumed. We therefore recommend that you carry out a sufficient number of your own tests. The general conditions of Bloem Sealants BV apply to our recommendations and instructions for use. Subject to change without notice.

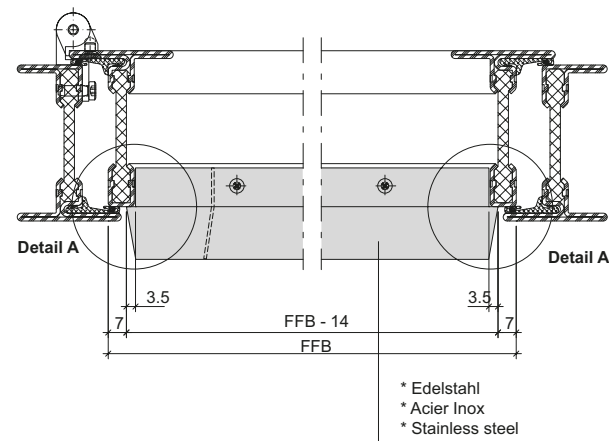
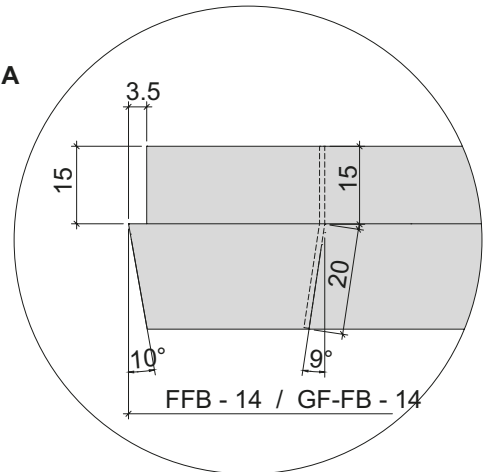
Optionale Wetterschenkel

Renvois d'eau en option

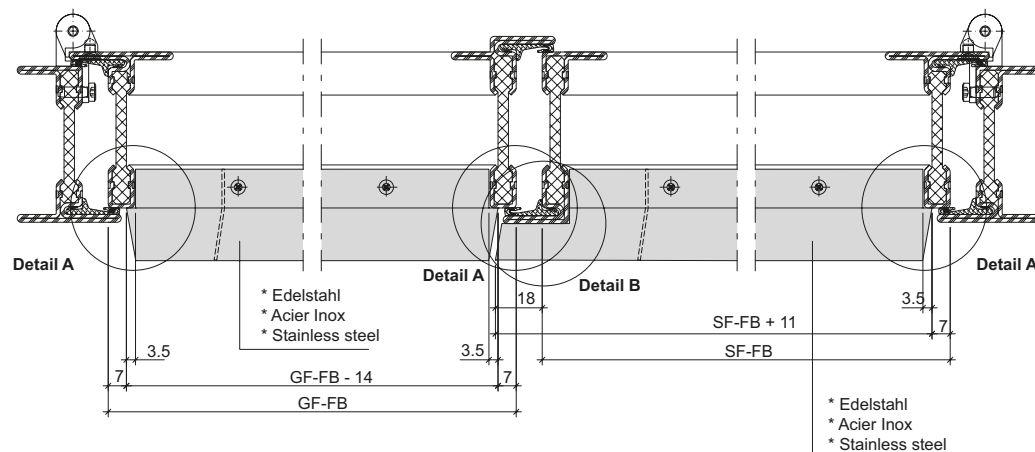
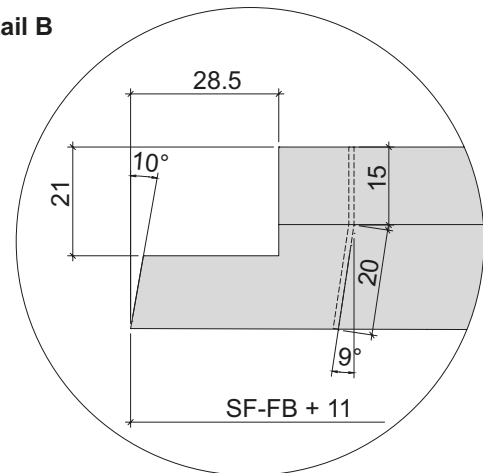
Optional drip bar



Detail A



Detail B

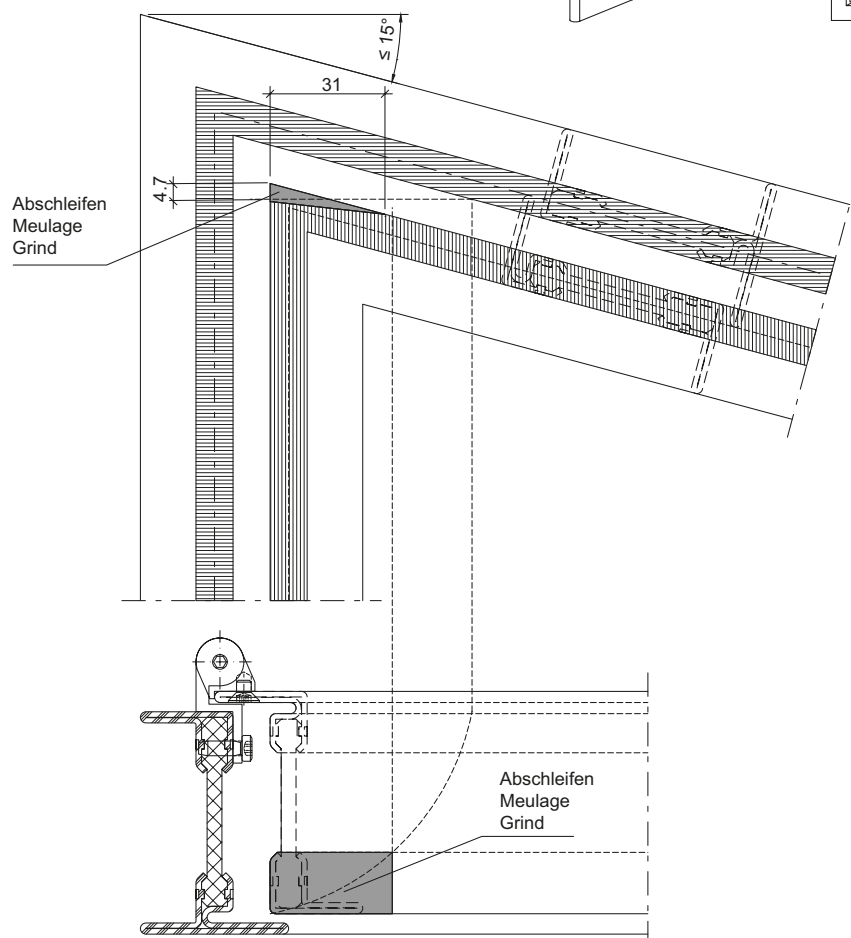
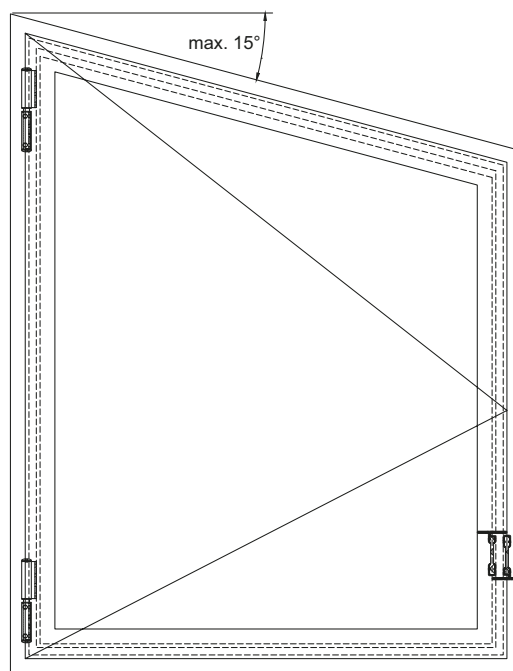
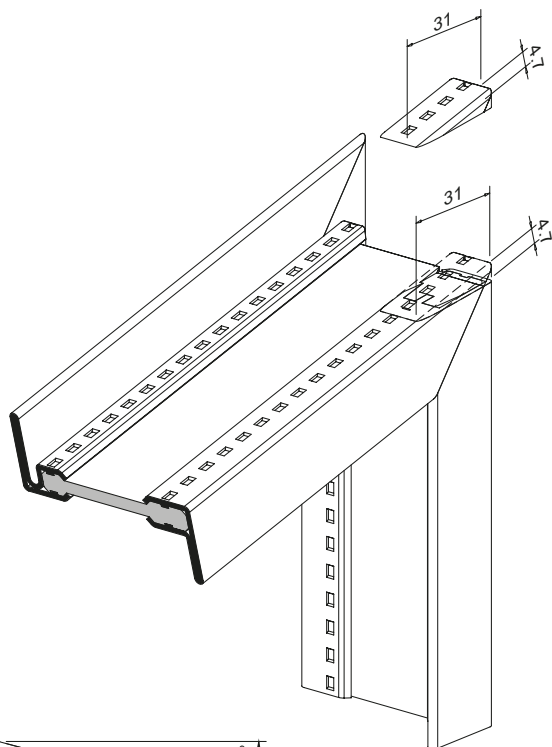


* Durch Metallbauer zu fertigen
* A fabriquer par le métallier
* To made by metal constructor

Atelierfenster

Fenêtre trapézoïdale

Studio window



Bogenfenster aus Janisol-Arte Profilen

Im Sinne einer Qualitätssteigerung stellen wir für Biegearbeiten spezielle Janisol Arte-Profile her:

Verarbeitungshinweise:

Profile beim Zuschnitt vorsichtig einspannen. Jansen-Ein Spann-Unterlage (499.294) verwenden. Spanndruck dosieren.

Der Profilquerschnitt kann sich je nach Biegeradius durch den Biegevorgang mehr oder weniger verkleinern und deformieren. Dies muss beim Zusammenfügen der gebogenen mit den geraden Profilen berücksichtigt werden. Die geeignete Kantenwahl (Bezugs-kante) ist vorgängig zu prüfen.

Schweissen/Verputzen:

Profilstoss mit Bogen und gerader Teil allseitig gut heften und wie üblich schweissen. Anschliessend Stossbereich sauber schleifen und verputzen. Allfällige Differenzen im Profilquerschnitt bei Nebenkanten ausgleichen resp. anpassen (siehe Skizze).

Oberflächenbehandlung (Einbrennlackierung/Pulverbeschichtung):

Die Oberflächenbehandlung von Bogenfenster mit Janisol Arte-Profilen mit speziellem Biege-Isoliersteg kann ohne spezielle Vorkehrungen wie übige Rahmenteile erfolgen.

Elemente im Ofen und beim Abkühlen so aufhängen resp. abstützen, dass ein Verziehen vermieden wird (nicht einseitig aufhängen, sondern Innen- und Aussen-Stahlschalen stützen).

Bei Verwendung von Klips-Glasleisten empfehlen wir die Glasleisten an den Enden mit je einer Schraube zu sichern.

Fenêtres cintrée avec profilés Janisol Arte

Nous fabriquons des profilés Janisol Arte spéciaux pour les travaux de cintrage afin d'accroître la qualité:

Indications d'usinage:

Serrer avec précaution les profilés lors de leur coupe. Utiliser le support Jansen pour le serrage (499.294). Doser la pression de serrage. Suivant le rayon de courbure, la section de profilé peut être plus ou moins réduite et déformée durant le cintrage. Ceci doit être pris en compte lors de l'assemblage des profilés cintrés avec ceux qui sont rectilignes. Le choix de l'arête appropriée (arête de référence) doit être préalablement contrôlée.

Soudage/ébarbage:

Pointer correctement de tous les côtés la jonction de profilés cintrés et la partie rectiligne et la souder comme cela est d'usage. Meuler et ébarber ensuite correctement la zone de la jonction. Égalisez ou ajustez toutes les différences éventuelles de la section de profilé sur les arêtes auxiliaires (voir schéma).

Traitement de surface

(laquage au four/laquage poudre):
Le traitement de surface d'une fenêtre cintrée avec profilés Janisol Arte possédant un isolateur de cintrage spécial peut être effectué comme pour les autres pièces de cadre sans mesures particulières.

Suspendre ou étayer les éléments dans le four et lors du refroidissement de manière à éviter toute déformation (ne pas suspendre d'un seul côté, mais étayer les demi-coques intérieures et extérieures).

En cas d'utilisation de parcloches clipsées, nous recommandons de les caler aux extrémités avec respectivement une vis.

Arched windows with Janisol Arte profiles

In order to improve quality, we fabricate special Janisol Arte profiles for profile bending:

Assembly instructions:

Carefully clamp the profiles when cutting. Use Jansen clamping support (499.294). Measure the clamping pressure.

Depending on the bending radius, the profile cross section may be somewhat reduced or deformed due to the bending process. This must be taken into account when joining the arched profiles to the straight ones. Check in advance that the appropriate edge (reference edge) has been selected.

Welding/cleaning:

Securely tack the profile joint with arch and straight section on all sides and weld as usual. Then fully grind and clean the joint area. Offset or adjust any differences in the profile cross section for secondary edges (see diagram).

Surface treatment (enamelling/powder coating):

The surfaces of arched windows with Janisol Arte profiles with special bending isolators can be treated in the same way as conventional frame sections, without the need for special precautions.

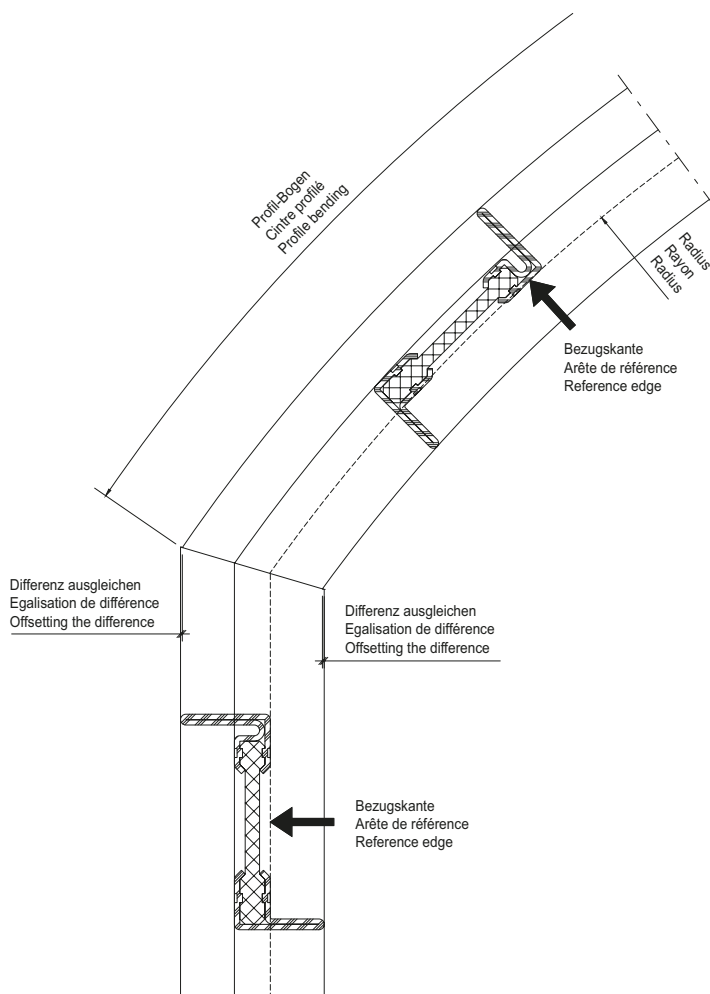
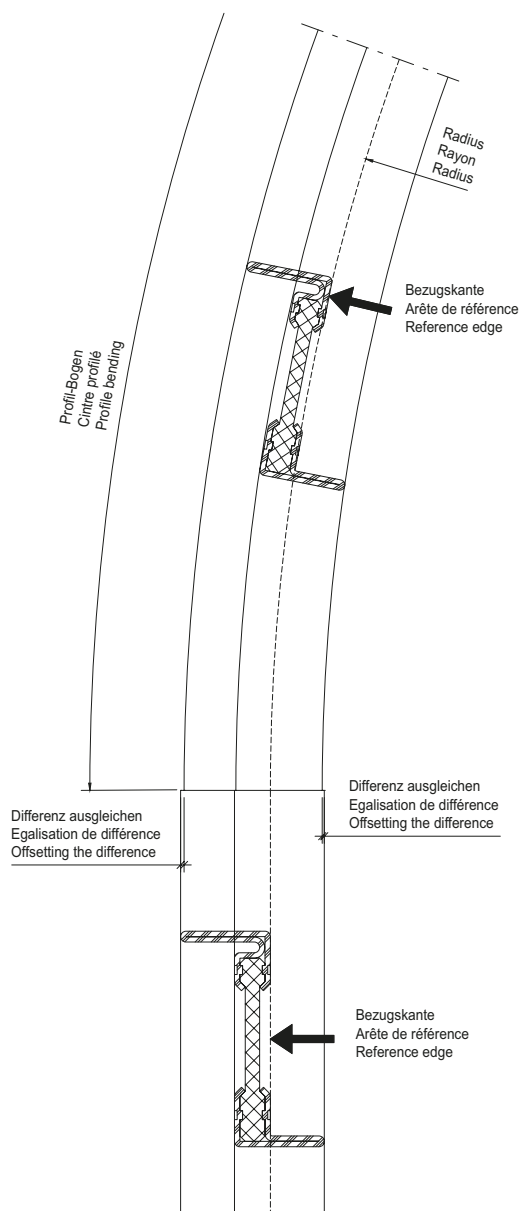
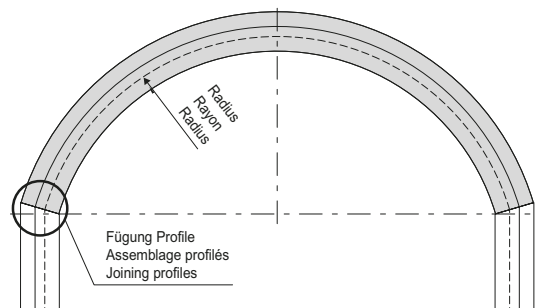
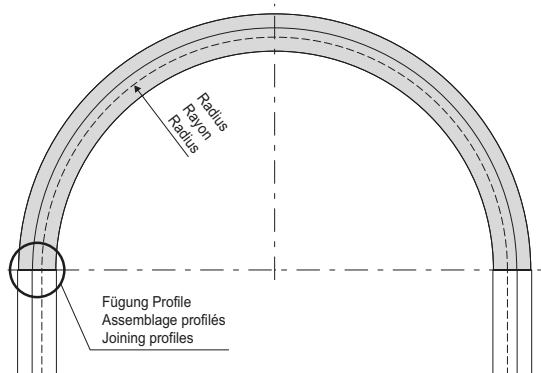
Suspend or support the units in the furnace and when cooling so that they do not warp (do not suspend from one side; support both inner and outer steel profiles).

When using clip-on glazing beads, we recommend securing the glazing beads at the ends with one screw in each case.

Bogenfenster
Blendrahmen/Festverglasung

Fenêtres cintrées
Cadre dormant/Vitrage fixe

Arched windows
Outer frame/Fixed glazing



Allgemeine Angaben über wetterfeste Stähle

Was sind wetterfeste Stähle?

Als wetterfeste Baustähle gelten nach üblichem Sprachgebrauch solche niedriglegierten Stahlsorten, die ohne Korrosionsschutz verwendet werden können, da sie an der Atmosphäre eine beständige Rostschicht bilden. Die geringen Legierungsgehalte von ca. 0,5% Kupfer, ca. 0,8% Chrom, ca. 0,5% Nickel und gegebenenfalls ca. 0,1% Phosphor sind die Grundlage dieser Beständigkeit gegen Witterungseinflüsse.

Dabei sind einige Voraussetzungen zu beachten:

- Die Atmosphäre darf keine sich bildende Deckschicht beeinträchtigenden Stoffe enthalten.
- Die Oberflächen der Werkstoffe müssen dem natürlichen Witterungswechsel ausgesetzt sein; der Fall von Dauerbefeuchtung darf nicht gegeben sein.
- Es können durch direkt oder indirekt benetzte Flächen Farbunterschiede entstehen.

Mechanismus der Deckschichtenbildung

Zahlreiche Bauteile aus leichtlegierten, wetterfesten Stählen haben inzwischen in langjähriger betrieblicher Anwendung den hohen Rostwiderstand dieser besonderen Stahlgruppe bewiesen. Durch den verdichteten Rost ist die Stahloberfläche weitgehend geschützt, so dass ein weiteres Abrosten der Oberfläche verhindert wird. Die Wetterfestigkeit der leichtlegierten Stähle lässt sich auf stabile Deckschichten zurückführen. Durch die Legierungselemente, insbesondere Kupfer, Chrom und Phosphor, bilden sich beim Rostvorgang unter der Einwirkung von Schwefeldioxid schwer lösliche basische Sulfate, Hydroxide und Phosphate. Diese bauen auf dem Metall eine kompakte und relativ fest haftende amorphe Rostschicht auf. Sie hemmen den weiteren Zutritt von Sauerstoff, Wasser und Schwefeldioxid zur Metallfläche. Im Rost unlegierter Stähle läuft unter der für das Rosten in Industrieluft mitverantwortlichen SO_2 -Einwirkung dagegen ein katalytischer

Informations générales sur les aciers patinables

Que sont les aciers patinables?

Dans le langage courant, les types d'acier faiblement alliés pouvant être utilisés sans protection anticorrosion en raison de leur capacité à former une couche de rouille durable à l'atmosphère sont considérés comme des aciers de construction patinables. Les faibles teneurs en alliage d'env. 0,5% de cuivre, env. 0,8% de chrome, env. 0,5% de nickel et éventuellement env. 0,1% de phosphore représentent le fondement de cette résistance aux influences climatiques.

Quelques conditions doivent cependant être respectées

- L'atmosphère ne doit comprendre aucune substance compromettant la formation d'une couche de protection.
- La surface des matériaux doit être soumise aux changements climatiques naturels; elle ne doit pas être soumise à une humidité permanente.
- Des différences de couleur peuvent apparaître en raison de surfaces humidifiées directement ou indirectement

Mécanisme de la formation d'une couche protectrice

De nombreux composants en aciers patinables et faiblement alliés ont entre-temps prouvé la grande résistance à la rouille de ce groupe d'aciers particulier au cours de longues années d'une utilisation pratique. Grâce à la rouille compactante, la surface de l'acier est en grande partie protégée, ce qui empêche qu'elle dérouille encore plus. La patinabilité des aciers faiblement alliés peut être attribuée à des couches de protection stables. Grâce aux éléments d'alliage, en particulier le cuivre, le chrome et le phosphore, des sulfates basiques, des hydroxides et des phosphates difficilement solubles se forment sous l'effet de dioxyde de soufre durant le processus de rouille. Ces derniers forment sur le métal une couche de rouille amorphe compacte et relativement adhérente. Ils freinent l'accès de l'oxygène, de l'eau et du dioxyde de soufre à la surface du métal. Dans la rouille des aciers non alliés a

General information on weathering steels

What are weathering steels?

According to general language use, low-alloy steels of this kind which can be used without corrosion protection are viewed as weathering structural steels, as they form a resistant layer of rust when exposed to the atmosphere. The low alloy content of approx. 0.5% copper, approx. 0.8% chrome, approx. 0.5% nickel and, where required, approx. 0.1% phosphorus forms the basis of this resistance to weathering influences.

Several requirements must be met here:

- The atmosphere must not contain any substances which will damage the top layer that forms.
- The surfaces of the materials must be exposed to the natural changes in the weather; there must not be permanent humidification.
- There may be colour differences as a result of directly or indirectly moistened surfaces.

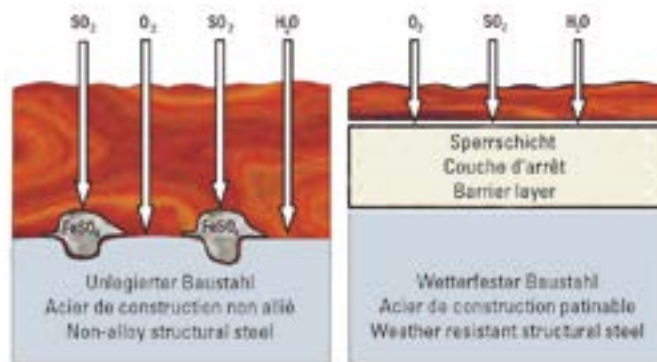
How the top layer forms

Numerous components made from low-alloy, weathering steels have demonstrated the high rust resistance of this particular group of steels during long-term use. Thanks to the condensed rust, the steel surface is protected to a large extent, such that further rusting of the surface is prevented. The weathering resistance of the low-alloy steels can be attributed to stable top layers. Due to the alloying elements (in particular copper, chrome and phosphorus), alkaline sulphates, hydroxides and phosphates, which do not dissolve easily, form during the rusting process under the effect of sulphur dioxide. These form a compact and relatively fixed, amorphous layer of rust on the metal. They prevent further ingress of oxygen, water and sulphur dioxide on the metal surface. In contrast to the SO_2 effect which is partially responsible for the rust in industrial air, a catalytic process takes place in the

Vorgang ab, bei dem H^+ Ionen frei werden, die ein weiteres Auflösen des Eisens bewirken.

lieu par contre un processus catalytique sous l'action du SO_2 participant à la formation de la rouille dans l'air industriel et au cours duquel des ions H^+ , libérés, provoquent une dissolution supplémentaire du fer.

rusting of non-alloy steels, whereby H^+ ions become free, further dissolving the iron.



Zeitlicher Ablauf der Deckschichtenbildung

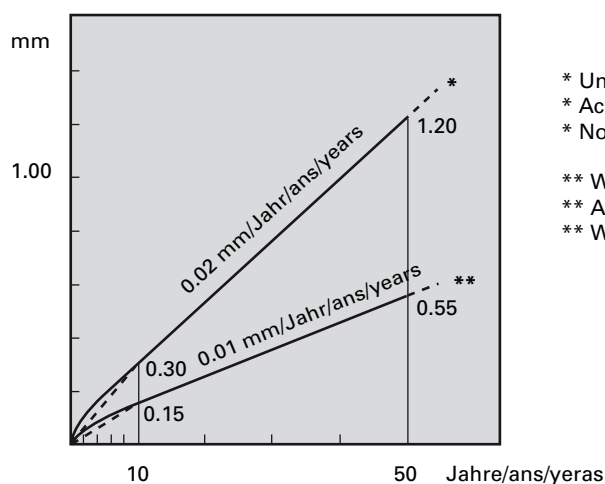
Die Erfahrung zeigt, dass der Prozess der Deckschichtenbildung nach etwa zwei bis drei Jahren abgeschlossen ist. Zeichnet man den Abwitterungsverlauf grafisch auf, dann erkennt man, dass nach einer anfänglich normalen Rostgeschwindigkeit der Kurvenverlauf langsam abflacht und damit von einer Gewichtsabnahme kaum noch gesprochen werden kann. Messungen haben gezeigt, dass der Gesamtdickenverlust bei günstigen Einbaubedingungen nach 25 Jahren etwa 0,05 mm betragen hat. Davon dient etwa die Hälfte zum Aufbau der Schutzschicht, während die andere Hälfte in Form von lockeren Oxiden durch Witterungseinflüsse abgetragen wird.

Déroulement dans le temps de la formation d'une couche de protection

L'expérience montre que le processus de formation de couche de protection est terminé au bout de deux à trois ans. Si l'on convertit l'effet des intempéries en graphique, il est possible de voir qu'après une vitesse de formation de rouille normale au début, la courbe s'aplatit lentement et l'on peut donc à peine parler de perte de poids. Des mesures ont montré que la perte totale d'épaisseur quand les conditions de montage étaient bonnes n'est que d'environ 0,05 mm au bout de 25 ans. La moitié a servi à la formation de la couche protectrice alors que la seconde moitié est enlevée sous forme d'oxydes lâches sous l'effet des influences climatiques.

Timeframe of the top layer formation

Experience shows that the process of the top layer formation is complete after around two to three years. If you plot this weathering process in a graph, you can see that, after an initially normal rusting speed, the curve progression slowly levels off and weight loss can hardly be seen anymore. Measurements have shown that the total thickness loss after 25 years is around 0.05 mm with favourable exposure conditions. Of this amount, around half is used to build up the protective layer, while the other half is worn away in the form of loose oxides due to weathering effects.



- * Unlegierter Baustahl
- * Acier de construction non allié
- * Non-alloy structural steel
- ** Wetterfester Baustahl
- ** Acier de construction patinable
- ** Weather resistant structural steel

Die Verwendung von wetterfesten Jansen-Profilstahlrohren

Ästhetische Aspekte

Dem Architekten und planenden Ingenieur steht mit wetterfestem Stahl ein natürlicher Stoff für die Gestaltung zur Verfügung, der durch den Wechsel der Farbtönungen und -schattierungen während des Rostprozesses und bei tageszeitlichen Änderungen des Lichtes lebt und damit ein anderes Verhalten als mancher künstlicher Werkstoff zeigt.

Die schützende Korrosionsschicht von wetterfestem Stahl verändert ihre Farbe im Laufe der Zeit von hellbraun, braun bis annähernd schwarz und erinnert in ihrem Farbcharakter an Bronze oder Kupfer. Die Schönheit der Bauten aus früheren Epochen liegt zu einem grossen Teil darin, dass sie sich durch ihre Patina in Natur und Landschaft einfügen.

Konstruktionshinweise

Für den Konstrukteur ist es wichtig zu wissen, dass zur Bildung der Schutzschicht ein ständiger Wechsel von Trockenheit und Feuchtigkeit notwendig ist. In andauernd feuchter oder gar ausgesprochen nasser Umgebung kann sich diese Deckschicht nicht bilden. Es ist dafür zu sorgen, dass das Regenwasser überall ungehindert abfließen kann, Spalten und feuchte Ecken sind zu vermeiden. Während des zur Deckschichtenbildung erforderlichen Zeitraumes enthält das ablaufende Regenwasser einen Teil der entstandenen Korrosionsprodukte. Es ist darauf zu achten, dass verfärbtes Regenwasser nicht zur Streifen- oder Fleckenbildung an benachbarten Bauteilen führt.

Verarbeitung

Wetterfeste Jansen-Profilstahlrohre können ohne Schwierigkeiten verarbeitet werden. Für das Zuschneiden, Ausklinken und Schlitzen können übliche Werkzeuge und Maschinen verwendet werden. Es gilt jedoch einige Besonderheiten zu berücksichtigen:

Utilisation de tubes profilés en acier patinables Jansen

Aspects esthétiques

Pour leur conception, l'architecte et l'ingénieur concepteur disposent avec l'acier patinable d'un matériau naturel qui vit en raison du changement de nuances et d'ombrage de couleur pendant le processus de rouille et au fil des différentes lumières au cours de la journée et qui donc montre un autre comportement que les matériaux artificiels.

La couche de corrosion protectrice sur l'acier patinable change de couleur au cours du temps de marron clair à marron jusqu'à presque noir et cette couleur fait penser par ses caractéristiques au bronze ou au cuivre. La beauté des bâtiments datant d'époques plus reculées consiste en grande partie dans le fait qu'ils s'intègrent dans la nature et le paysage grâce à leur patine.

Remarques relatives à la construction

Pour le projeteur, il est important de savoir qu'un changement permanent entre sécheresse et humidité est nécessaire à la formation de la couche de protection. Cette couche de protection ne peut se former dans un environnement humide en permanence ou même carrément mouillé. S'assurer que l'eau de pluie peut s'écouler partout sans être gênée, éviter les fentes et les coins humides. Durant le temps nécessaire à la formation de la couche de protection, l'eau de pluie qui s'écoule contient une partie des produits de corrosion qui ont été générés. Veiller à ce que de l'eau de pluie colorée ne provoque pas de rayures ou de tâches sur les composants voisins.

Usinage

Les tubes profilés en acier patinables Jansen peuvent être usinés sans problème. Les outils et les machines usuels peuvent être utilisés pour le débitage, l'entaillage et le rainurage. Il est cependant nécessaire de tenir compte de quelques particularités:

Use of Jansen hollow weathering steel profiles

Aesthetic aspects

For architects and planning engineers, weathering steel is a natural design material which comes alive through the changes in colour and shading during the rusting process and daytime changes in the light and hence demonstrates a different behaviour to some man-made materials.

The protective corrosion layer of weathering steel changes colour over time from light brown to brown to almost black, and is reminiscent in its colour characteristics of bronze or copper. The beauty of the buildings from earlier periods lies largely in the fact that they are able to blend in with their natural surroundings and the landscape due to their patina.

Design information

It is important for the designer to know that a continuous change between dry and humid conditions is necessary for the protective layer to form. This top layer cannot form in constantly damp or even wet conditions. It must hence be ensured that the rain water can run off everywhere unhindered; gaps and damp corners are to be avoided. During the time required for the top layer to form, the rain water running off contains part of the resultant corrosion product. It must be ensured that discoloured rain water does not cause streaking or spotting on neighbouring building components.

Fabrication

Jansen hollow weathering steel profiles can be fabricated without difficulty. Standard tools and machinery can be used for cutting, notching and creating slots. Certain factors must be considered, however:

Schweißen

Eine bewährte Eigenschaft von wetterfestem Baustahl ist die zuverlässige Schweißbarkeit. Es können die üblichen Schweißverfahren angewendet werden. Entsprechende Drähte sowie Elektroden mit gleicher Analyse sind im Handel bei folgenden Herstellern erhältlich:

- Böhler Welding	NiCu1
- Linde Group	Ni1Cu
- Oerlikon	Carbofil NiCu

Nieten und Schrauben

Verbindungselemente wie Schrauben, Nieten und Zubehör müssen so ausgewählt werden, dass die Bildung elektrochemischer Lokalelemente, die die Deckschicht auf dem wetterfesten Stahl schädigen können, vermieden werden. Am besten geeignet sind Verbindungselemente aus Chromnickelstahl oder verzinktem Stahl. Solche Verbindungen sind in vielen Dimensionen und Ausführungen im Handel erhältlich.

Oberflächenbehandlung

Zur Erzielung einer regelmässigen Patina sind die Rahmenelemente durch metallisch blanke Sandstrahlung oder mechanischer Bearbeitung wie z.B. Exzentrerschleifer zu reinigen. Sicherlich müssen jegliche Fett- und Ölreste sowie andere Verarbeitungsspuren wie z.B. Beschriftungen mit Fett oder Filzstiften beseitigt werden.

Vorkorrosion

Es besteht die Möglichkeit, die Fensterelemente vorgängig für längere Zeit im Freien zu lagern und regelmässig mit Wasser zu besprühen oder die Behandlung mit dem JANox Schnellroster (450.107). Um ein einheitliches Korrosionsbild zu bekommen, muss die gereinigte Oberfläche gleichmässig mittels Sprühflasche oder Schaumstoffroller benetzt werden. Der Schnellroster benötigt eine Einwirkdauer von ca. 45 Minuten. Je nach gewünschtem Rosteffekt sind 2-3 Schichten nötig. Nach der Behandlung sollte die Oberfläche mit Wasser abgewaschen werden, um Rückstände des Schnellrosters zu vermeiden. Anschliessend benötigt die Rostschicht min. 24 Stunden um sich zu verfestigen.

Soudage

Une propriété éprouvée d'un acier de construction patinable est sa fiabilité à pouvoir être soudé. Les procédés de soudage usuels peuvent être utilisés. Les fils et les électrodes de même analyse sont disponibles dans le commerce chez les fabricants suivants:

- Böhler Welding	NiCu1
- Linde Group	Ni1Cu
- Oerlikon	Carbofil NiCu

Rivets et vis

Les éléments d'assemblage tels que vis, rivet et accessoires doivent être choisis de manière à éviter la formation de piles locales électrochimiques qui pourraient endommager la couche de protection sur l'acier patinable. Les éléments d'assemblage les mieux appropriés sont en acier chrome-nickel ou galvanisé. De tels assemblages sont disponibles dans le commerce dans de nombreuses dimensions et exécutions.

Traitement de surface

Pour obtenir une patine homogène, les éléments de cadre doivent être nettoyés par sablage pour obtenir du métal nu ou être traités mécaniquement avec par exemple une ponceuse excentrique. Tout reste de graisse ou d'huile ainsi que toutes les autres traces d'usinage telles que marquages avec de la graisse ou des crayons feutres doit être éliminé.

Pré-corrosion

Il est possible de soumettre à l'avance les éléments de fenêtre à un stockage en extérieur durant un temps prolongé et de les asperger régulièrement d'eau ou de les traiter avec le rouilleur rapide JANox (450.107). Pour obtenir une apparence uniforme de la corrosion, la surface nettoyée doit être humidifiée de manière homogène au moyen d'une bombe aérosols ou d'un rouleau en mousse. Le rouilleur rapide nécessite env. 45 minutes pour agir. 2 à 3 couches sont nécessaires pour obtenir l'effet de rouille désiré. La surface doit être lavée avec de l'eau après le traitement afin d'éviter tout résidu du rouilleur rapide. La couche de rouille a besoin ensuite d'au moins 24 heures pour se solidifier.

Welding

A proven property of weathering structural steel is its reliable weldability. Standard welding procedures can be used. Corresponding wires and electrodes with the same specification are commercially available from the following manufacturers:

- Böhler Welding	NiCu1
- Linde Group	Ni1Cu
- Oerlikon	Carbofil NiCu

Rivets and screws

Connecting units such as screws, rivets and accessories must be selected such that the formation of local electrochemical elements which may damage the top layer on the weathering steel is avoided. Connecting units made from chrome-nickel steel or galvanised steel are best suited for this. Connections of this type are commercially available in many dimensions and designs.

Surface treatment

To achieve a regular patina, the frame units must be cleaned by means of sandblasting down to the bare metal or mechanical processing with a random orbital sander, for example. Of course, any residual grease or oil as well as other traces of fabrication, such as markings made using grease or felt-tip pens, must be removed.

Pre-corrosion

There is the option to store the window units in the open for a long time in advance and regularly spray them with water or treat them with JANox rapid rusting agent (450.107). In order to obtain uniform corrosion, the cleaned surface must be moistened uniformly by means of a spray bottle or foam roller. The rapid rusting agent requires around 45 minutes to take effect. 2-3 coats are necessary, depending on the desired rust effect. Following treatment, the surface should be washed with water in order to get rid of any residual rapid rusting agent. The layer of rust then requires a minimum of 24 hours to harden.

Wichtig:

Für die Bearbeitung separaten Behälter benutzen. Es dürfen keine Fremdkörper in den JANox Behälter gelangen. Dies könnte die Wirkung negativ beeinträchtigen! Restflüssigkeit kann ohne Einschränkung entsorgt werden.

Bei der Verarbeitung mit JANox persönliche Schutzausrüstung, wie geschlossene Brille und Gummihandschuhe, tragen.

Oberflächenbehandlung
Rauminnenseite

Auf der Rauminnenseite empfiehlt sich ein Oberflächenschutz um unregelmäßige Korrosionsstellen zu vermeiden. Hier sollten die Elementteile folgender Oberflächenbehandlung unterzogen werden:

- Die Elemente metallisch blank mit mineralischem Strahlmittel feiner Körnung sandstrahlen
- Die Aussenseite mit geeignetem Abdeckband abdecken
- Auf der Innenseite den beliebigen Korrosionsschutz oder Farbe auftragen

Abdichten, Verkitten und Versiegeln

Wetterfester Baustahl verträgt sich gut mit den im Bauwesen üblicherweise verwendeten Dichtungsmaterialien. Alle losen Rostpartikel bei den Haftstellen von angerosteten oder vorkorrodieren Elementen müssen entfernt werden.

Important:

Utiliser un conteneur séparé pour le traitement. Aucun corps étranger ne doit parvenir dans le conteneur JANox. Cela pourrait influencer négativement sur le résultat! L'eau résiduelle peut être éliminée sans restriction.

Pour l'usinage avec JANox, porter un équipement de protection personnelle tel que lunettes fermées et gants en caoutchouc.

Traitement de surface côté intérieur

Il est recommandé d'appliquer une protection de surface côté intérieur afin d'éviter les traces de corrosion irrégulières. Les pièces d'élément doivent dans ce cas être soumises au traitement de surface suivant:

- Soumettre les éléments à un sablage avec un agent de grenaillage minéral à grain fin jusqu'à ce que le métal soit à nu
- Recouvrir le côté extérieur avec une bande appropriée
- Appliquer la protection anticorrosion ou la peinture sur le côté intérieur

Étanchéifier, mastiquer et sceller

L'acier de construction patinable est tout à fait compatible avec les matériaux d'étanchéité usuels dans la construction de bâtiments. Toutes les particules de rouille non fixées sur les points d'adhérence d'éléments qui ont commencé à rouiller ou qui sont pré-corrodés doivent être éliminées.

Important:

Use separate containers for the processing. There must be no foreign matter in the JANox containers. This could have a negative impact on the effect. Residual liquid can be disposed of without restrictions.

When working with JANox, wear personal protective equipment such as close-fitting goggles and rubber gloves.

Treatment of the surface on the inside of the room

It is recommended to apply surface protection on the inside of the room in order to avoid irregular corrosion areas. The unit parts should be given the following surface treatment:

- Sandblast the units down to the bare metal using a mineral abrasive with fine granulation
- Cover the outside with a suitable cover tape
- Apply the desired amount of corrosion protection or colour to the inside.

Sealing and puttying

Weathering structural steel is compatible with the sealing materials commonly used in construction. All loose rust particles in the tack welds of slightly rusty or pre-corroded units must be removed.

**Beschlageinbau
und Montage
Janisol Arte 2.0**

Code A = Änderungen
Code E = Ergänzungen
Code R = Redaktionelle Korrektur
Code T = Technische Korrektur

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**Montage des ferrures
et usinage
Janisol Arte 2.0**

Code A = Modifications
Code E = Compléments
Code R = Correction rédactionnelle
Code T = Correction technique

Date d'impression 09/2022
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**Installation of fittings
and assembly
Janisol Arte 2.0**

Code A = Modifications
Code E = Supplements
Code R = Editorial correction
Code T = Technical correction

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Seite	Code	Datum	Erläuterung
Page	Code	Date	Explication
Page	Code	Date	Explanation

Grafische Planungsdaten wie z.B. Anwendungsbeispiele, Konstruktionsdetails, Anschlüsse am Bau, die in unseren physischen oder elektronischen Dokumentationsunterlagen enthalten sind, sind schematische Darstellungen. Gleiches gilt für digitale Medien wie CAD Dateien oder BIM Modelle.

Sie sollen den ausführenden Metallbauer und/oder Fachplaner bei der Planung und Ausführung eines Projektes unterstützen. Sie sind im konkreten Anwendungsfall durch den ausführenden Metallbauer und/oder Fachplaner auf die Verwendbarkeit im konkreten betroffenen Projekt hinsichtlich rechtlichen/regulatorischen aber auch technischen objektspezifischen Anforderungen zu überprüfen und ggfs. eigenverantwortlich anzupassen.

Bei der Überprüfung, der spezifischen Planung und der Umsetzung sind die objektspezifischen Rahmenbedingungen (Material der Bausubstanz, Dimension des Einbauelements, Farbe, Exposition, Lasteinwirkung, etc.) sowie der geltende Stand der Technik einschliesslich aller anwendbaren Normen und technischen Richtlinien eigenverantwortlich zu beachten.

Falls das vorliegende Dokument Differenzen zur aktuellen deutschen Version (Artikel Nr. K1018518) aufweist, gilt in jedem Fall der deutsche Originaltext in der jeweils geltenden Fassung im Jansen Docu Center.

Alle Ausführungen dieser Dokumentation haben wir sorgfältig und nach bestem Wissen zusammengestellt. Wir können aber keine Verantwortung für die Benutzung der vermittelten Vorschläge und Daten übernehmen. Wir behalten uns technische Änderungen ohne Vorankündigung vor.

Les données de planification graphiques, comme les exemples d'application, détails de construction et raccords au bâtiment, fournies dans notre documentation physique et numérique sont des représentations schématiques. Il en va de même pour les médias numériques comme les fichiers CAD ou modèles BIM.

Leur but est de faciliter la planification et réalisation d'un projet par les constructeurs métalliques et/ou concepteurs. Concrètement, elles doivent être vérifiées par le constructeur métallique et/ou le concepteur et, le cas échéant, modifiées de son propre chef pour s'assurer qu'elles concordent avec le projet concerné et qu'elles répondent aux exigences techniques spécifiques ainsi qu'aux dispositions légales et réglementaires.

Lors de la vérification, de la planification spécifique et de la mise en œuvre, il y a lieu de tenir compte des conditions spécifiques à l'objet (matériaux du bâtiment, dimension de l'élément d'insert, couleur, exposition, effet de charge, etc.) ainsi que de l'état actuel de la technique, y compris toutes les normes et directives techniques applicables.

En cas de divergence entre le présent document et la version allemande (no d'article K1018518), c'est dans tous les cas le texte original allemand qui prévaut dans sa version actuelle disponible dans le Jansen Docu Center.

Nous avons apporté le plus grand soin à l'élaboration de cette documentation. Cependant, nous déclinons toute responsabilité pour l'utilisation faite de nos propositions et de nos données. Nous nous réservons le droit de procéder à des modifications techniques sans préavis.

Graphical planning data such as application examples, construction details, connections on site that are contained in our physical or electronic documentation components are schematic representations. The same applies to digital media such as CAD files or BIM models.

They are intended to support the metal worker and/or design engineer in planning and executing projects. In the specific case of application they are to be checked by the metal worker and/or design engineer in terms of their usability in the specific project concerned with regard to legal/regulatory and technical property-specific requirements and adjusted if necessary at the latter's own responsibility.

The property-specific underlying conditions (construction material, dimensions of installation element, colour, exposure, load effect etc.) and current state of the art including all applicable norms and technical guidelines are to be taken into consideration at the metal worker and/or design engineer's own responsibility during the review, specific planning and implementation.

If there are any differences between this document and the current German version (item number K1018518), the latest version of the original German text in the Jansen Docu Center shall prevail.

All the information contained in this documentation is given to the best of our knowledge and ability. However, we decline all responsibility for the use made of these suggestions and data. We reserve the right to effect technical modifications without prior warning.

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