

Sliding window
smart-slide neo

ROTO, G-U

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Material Properties

In compliance with the DIN EN ISO 1163 standard, aluplast uses the following uPVC moulding compound as material for the profile systems:

ISO 1163 - PVC-U, EDLP, 082-50-T28

Iso standard DIN EN ...	↑
PVC = polyvinyl chloride	↑
U = plasticiser-free (rigid)	↑
E = extrusion	↑
D = powder (Dryblend)	↑
L = light and weathering stabiliser	↑
P = impact-resistant modified	↑
082 = Vicat-softening temperature: 80 - 84 °C	↑
50 = impact strength: >40 kJ/m ²	↑
T28 = modulus of elasticity: 2500 - 3000 N/mm ² (tensile modulus = tension = T)	↑

The formulation used is free of cadmium and barium.
Other versions / consignments according to system description or on request.

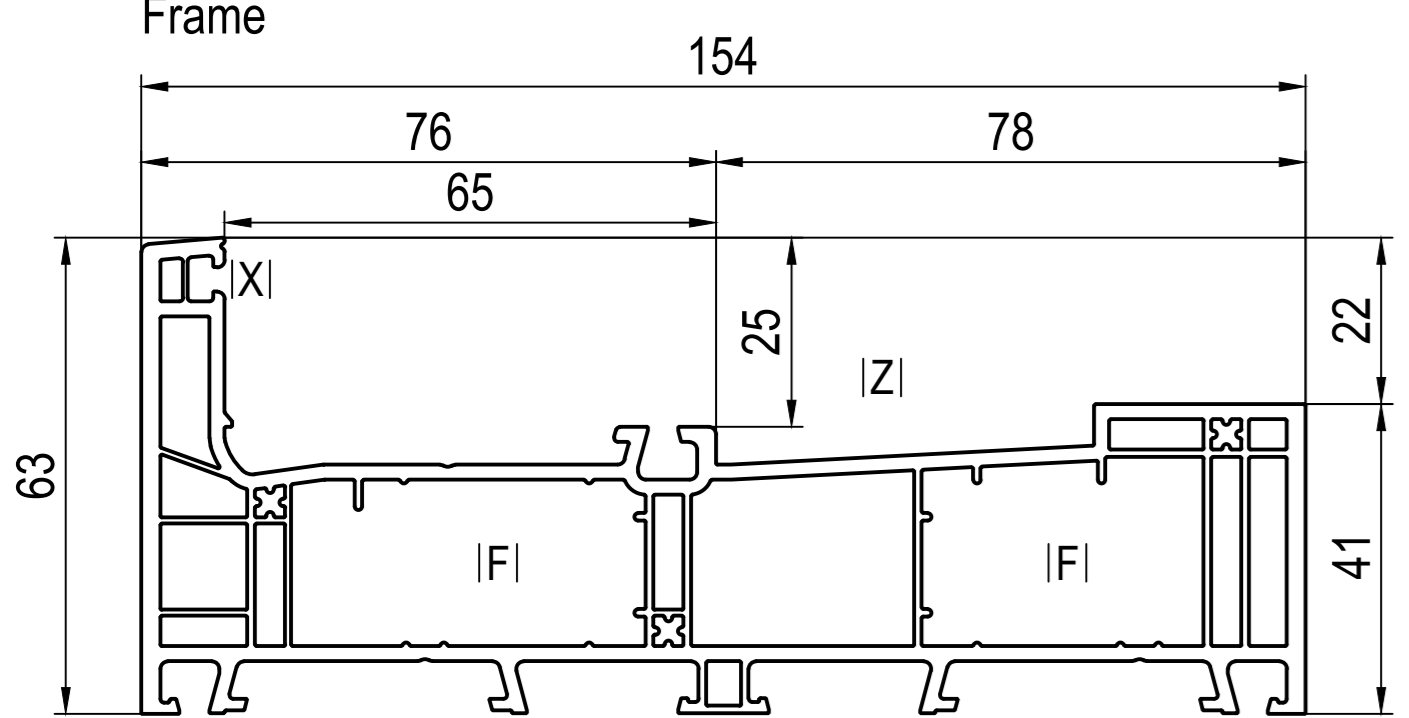
Characteristics CaZn (calcium zinc)

according to standard(s):	Description:	Unit:	Result:
DIN EN ISO 306	dimensional stability under heat Vicat-softening temperature VST/B 50	°C	80 ± 2
DIN EN ISO 179-1 / 1eA / 1eC / 1fC	double-v impact strength a_v (RAL-toughness) Charpy / test bar according to RAL	kJ/m ² at + 23° C	Ø ≥ 40 no value below 20
DIN EN ISO 178 / 527-1 and 527-2	flexural modulus E_f / tensile modulus E_t	N/mm ²	2800
DIN EN ISO 182-2 / DIN 53 381-1	stability time t_{St} pH-measurement methods, oil bath / conductivity measurement methods	minutes at + 200° C	40 ± 6

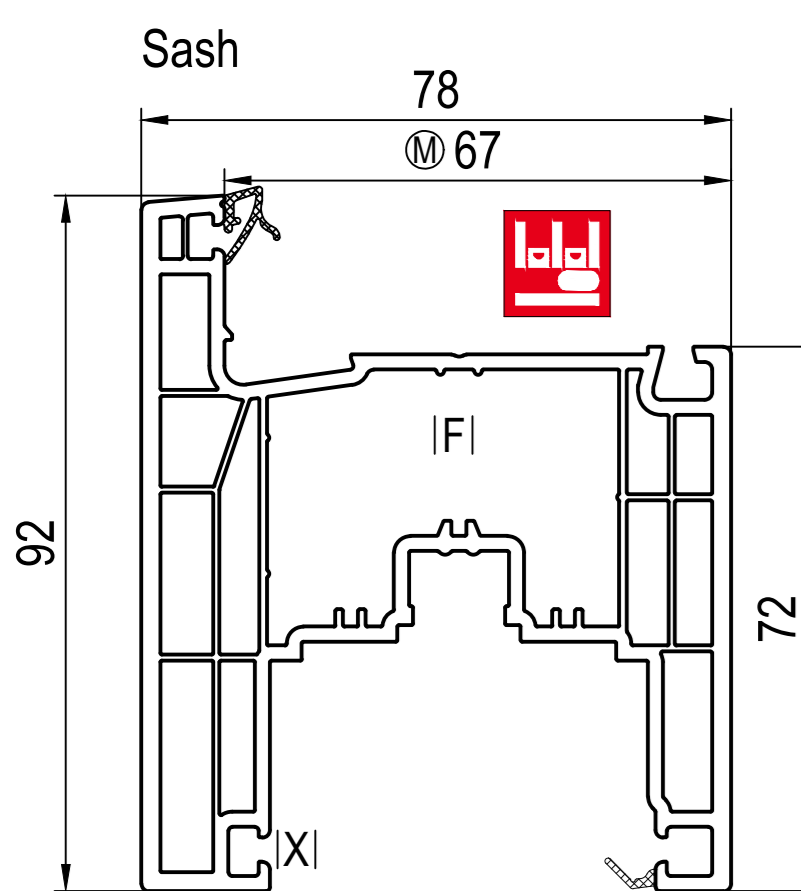
General characteristics of uPVC

according to standard(s)	Description:	Unit:	Result:
DIN 53752 Leitz-dilatometer	coefficient of linear expansion from - 30° to + 50° C	1/K	7 x 10 ⁻⁵
DIN 52612-1/-2/-3 guarded hot plate method	thermal conductivity λ (Lambda)	W/mK	0.16
DIN 4102-1	fire performance uPVC flat profiles	-	B1
DIN 4102-1	fire performance uPVC hollow chamber profiles	-	B2
DIN EN 13501-1	fire performance uPVC	-	E

Main Profiles

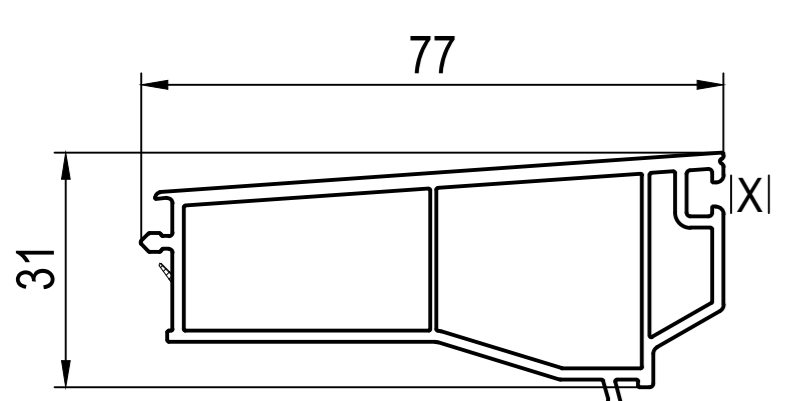


- 160091 (QL) AD
- IA 660301
- FI 229098, 229100, 229101
- O 660991
- Q 267291 -> 160091 + 160291
- XI 477025, 479025, 477015, 479015
- ZI 469293
- > Hautau, Maco, Winkhaus
- SI 267273, 267275, 267276
- > G-U, Roto
- SI 267293
- SI 267295, 267296 + ZI 466295

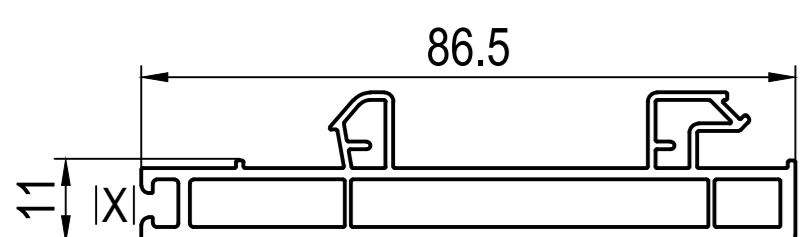


- 160x94 (QL) 67
- IA 685251, 680250, 655251, 650252, 620250, 650250
- FI 269294
- IJ 642261, 642262, 642263, 646265, 646266
- IXI 409284
- > Hautau, Maco, Winkhaus
- SI 267270
- > G-U, Roto
- SI 267290, 267292, 267297

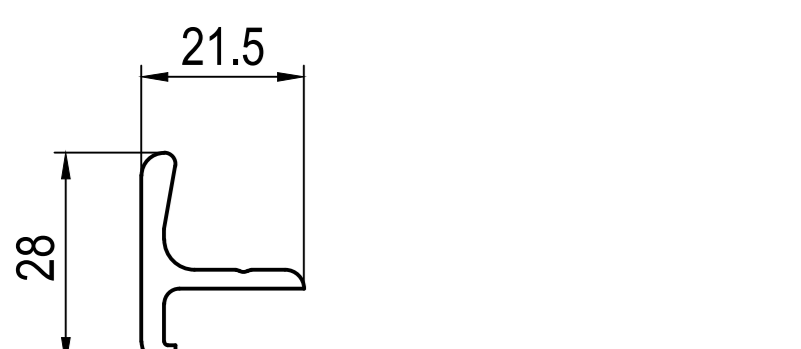
Additional Profiles



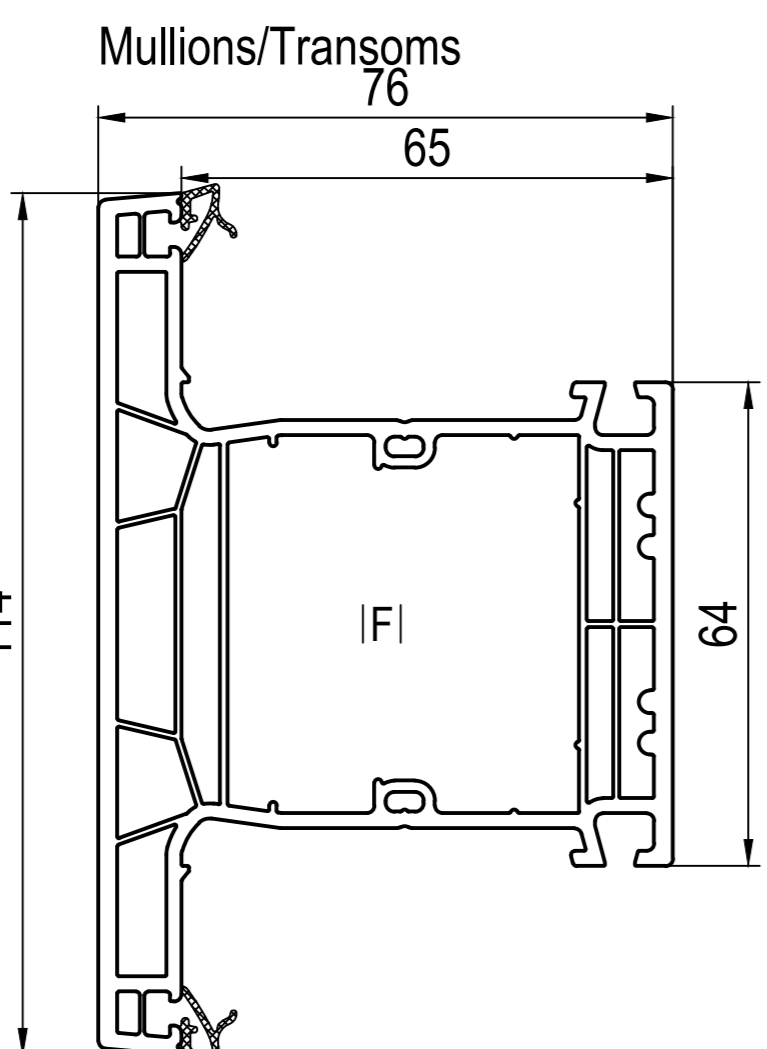
- 160291 (QL)
- > 160091, 160x41, 160x43
- Q 267291 -> 160091 + 160291
- IXI 407291, 409291



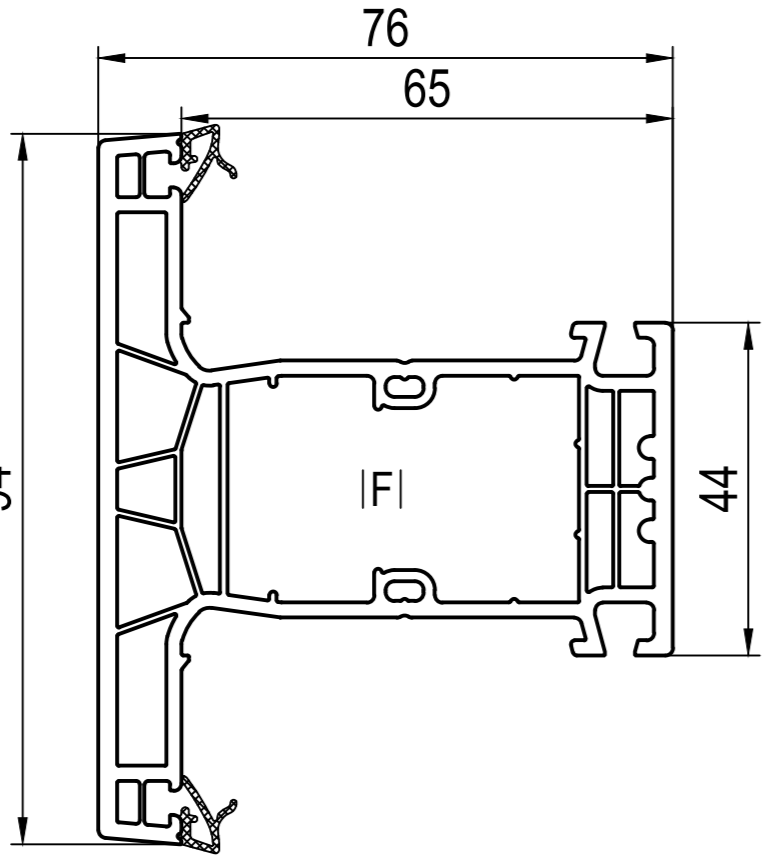
- 160294 (QL)
- > 160x94
- IXI 447340, 449340



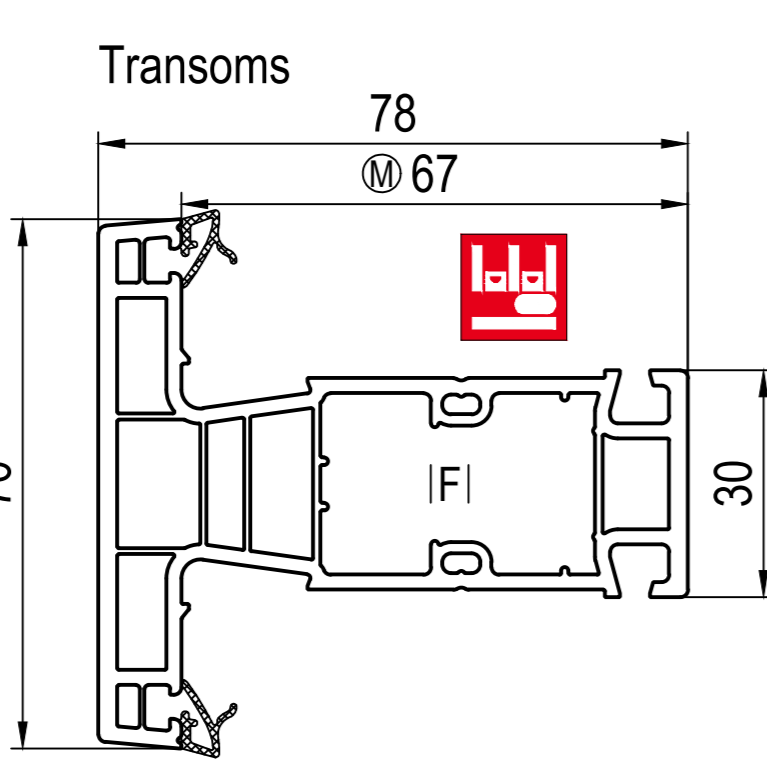
- 190231
- > 160x94 + IXI 409284



- 160x43 (QL) AD
- IA 660301
- DI 667043, 667143
- O 660950
- DI 667096 ~ 67 - Transoms
- IXI 457922, 459922
- DI 640046 ~ universal
- FI 269043, 269046



- 160x41 (QL) AD
- IA 660301
- DI 667041, 667141
- O 660950
- DI 677095 ~ 67 - Transoms
- IXI 457922, 459922
- DI 640046 ~ universal
- FI 269041, 269045



- 160x48 (QL) 67
- IA 685251, 680250, 655251, 650252, 620250, 650250
- DI 667048
- FI 249046
- IJ 642261, 642262, 642263, 646265, 646266

Accessories

- IAI Spacer
- > AD 8-52mm 8-54mm
- 160091, 160x43, 160x41
- 660301 red
- 10-54mm 10-20mm
- 160x94, 160x48
- 5 1 6 4
- 1mm 1mm
- 650250 red 620250 red
- 31-73 40-71
- 10-35mm 10-38mm
- 4 0
- 1mm 5mm
- 650252 red 655251 gn
- 55-73 55-73
- 10-44mm 10-48mm
- 4 0
- 1mm 5mm
- 680250 red 685251 gn
- 63-73 63-73

- DI Connector
- DI Connector without knobs
- Mullion -> 160x41
- > AD 160091, 160x43, 160x41
- DI - DI -
- 667141 667041
- O 660950 O 660950
- > 160x43 -> 160x41
- DI - DI -
- 667143 667043
- O 660950 O 660950
- > 160x48 -> 160x41
- DI - DI -
- 667048 667096
- O - O -
- IXI 457922, 459922
- universal -> Mullion
- 45x20x 1000mm
- DI 640046 P
- 1x -> 160x41
- 2x -> 160x43

- IJ Bonding of pane
- > 67 24-54mm
- 160x94, 160x48
- H [mm]
- 640033 red 3
- 640034 ye 4
- 640035 gn 5
- 642261 bl 642263 bl
- > 45kg > 45kg
- 3.5mm < 45kg < 45kg
- 642262 bl 646265 gr 646266 gr
- IKI Drain slot caps / Drainage profile
- Set 600290 ~ Ø5x35mm
- OI Auxiliary parts
- 660991 660950
- > 160091 -> DI 667041, 667043, 667141, 667143

- IXI Gaskets (...) Repair gaskets
- 409291 bl 409284 bl 449251 bl
- 407291 pw - 407291 pw -
- > 160291 -> 160x94 pw - pw
- 479025 bl 479015 bl 420250 wh
- 477025 pw 477015 pw 421250 br
- Standard -> 160091 (160x41, 160x43, 160x48, 160x94)
- 423250 oc 429250 bl
- 449340 bl 449042 bl 449343 bl
- 447340 pw 447042 pw 447343 pw
- Standard -> 160294 (160x94) -> 160294 (160x94)

- ZI Special accessories
- > G-U, Roto
- 466295 gr -> 160091

- IF Reinforcements (Ix/Iy)
- Frame 35 20
- FI 229098 s=2.5 (4.1/1.5) -> 160091
- Sash 45 30
- FI 269294 s=2.0 (7.1/2.9) -> 160x94
- Mullions/Transoms 45 48
- FI 269043 s=2.5 (12.9/13.4) -> 160x43
- FI 269046 s=1.5 (7.8/7.7) -> 160x43
- Transoms 34 21
- FI 249046 s=1.5 (2.0/0.6) -> 160x48
- FI 229100 s=1.25 (2.0/0.8) -> 160091
- FI 229101 s=1.5 (2.8/1.0) -> 160091
- FI 269041 s=1.5 (5.4/2.2) -> 160x41
- FI 269045 s=2.0 (8.4/3.0) -> 160x41

- QI Aluminium step protection
- 87.5
- 267291 (QL)
- > 160091 + 160291
- SL 107mm AU 213mm
- SI Aluminium profiles
- 267273 -> 160091
- SL 112mm AU 143mm GU 287mm
- 267270 -> 160x94
- SL 149mm AU 262mm GU 486mm
- 267276 -> 160091
- SL 116mm AU 147mm
- 267275 -> 160091
- SL 75mm AU 112mm

- > Hautau, Maco, Winkhaus
- SI 267273, 267275, 267276
- > G-U, Roto
- SI 267293
- SI 267295, 267296 + ZI 466295

- > G-U, Roto
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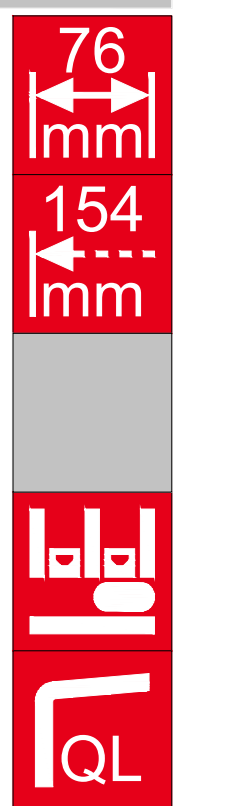
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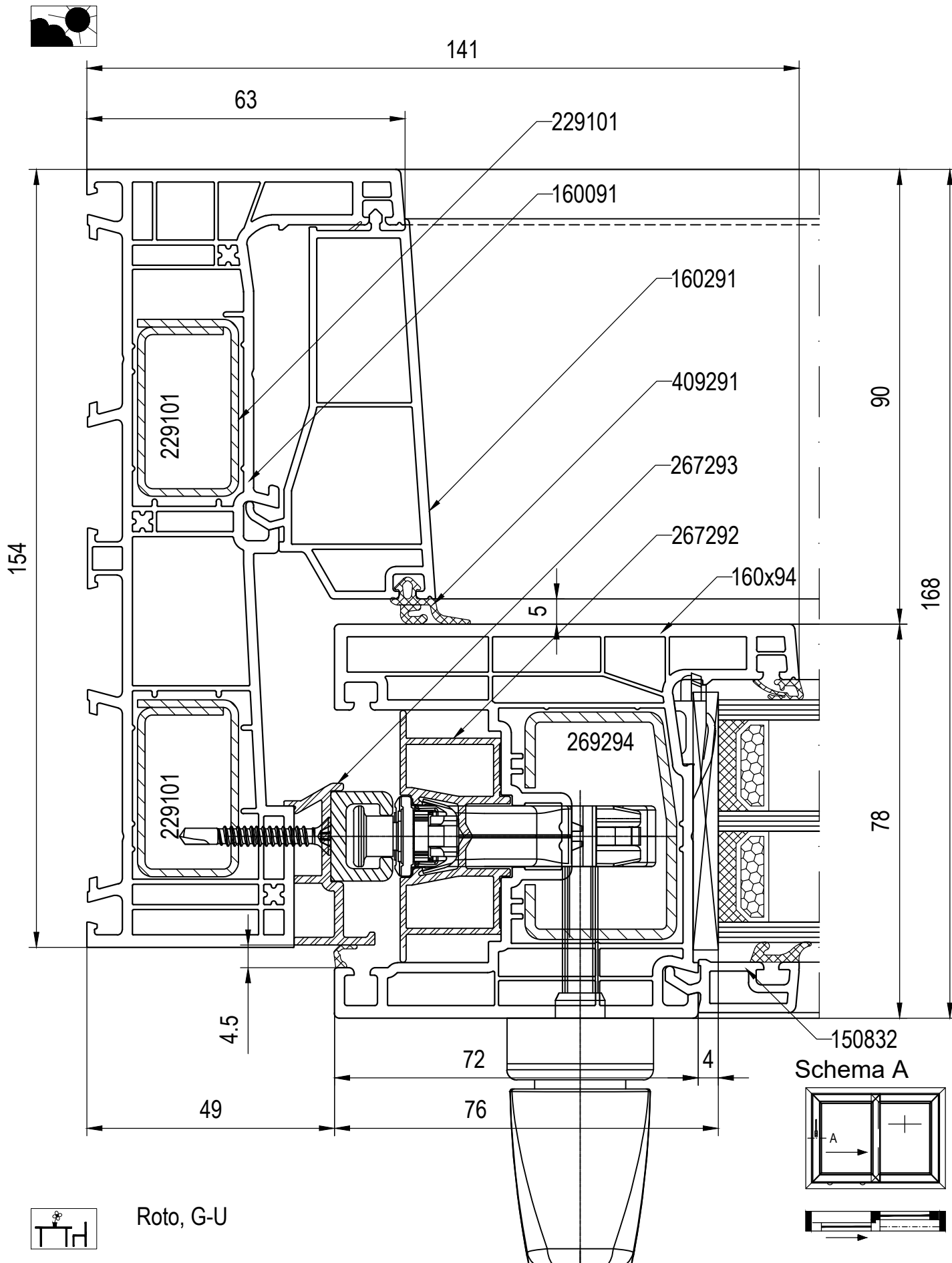
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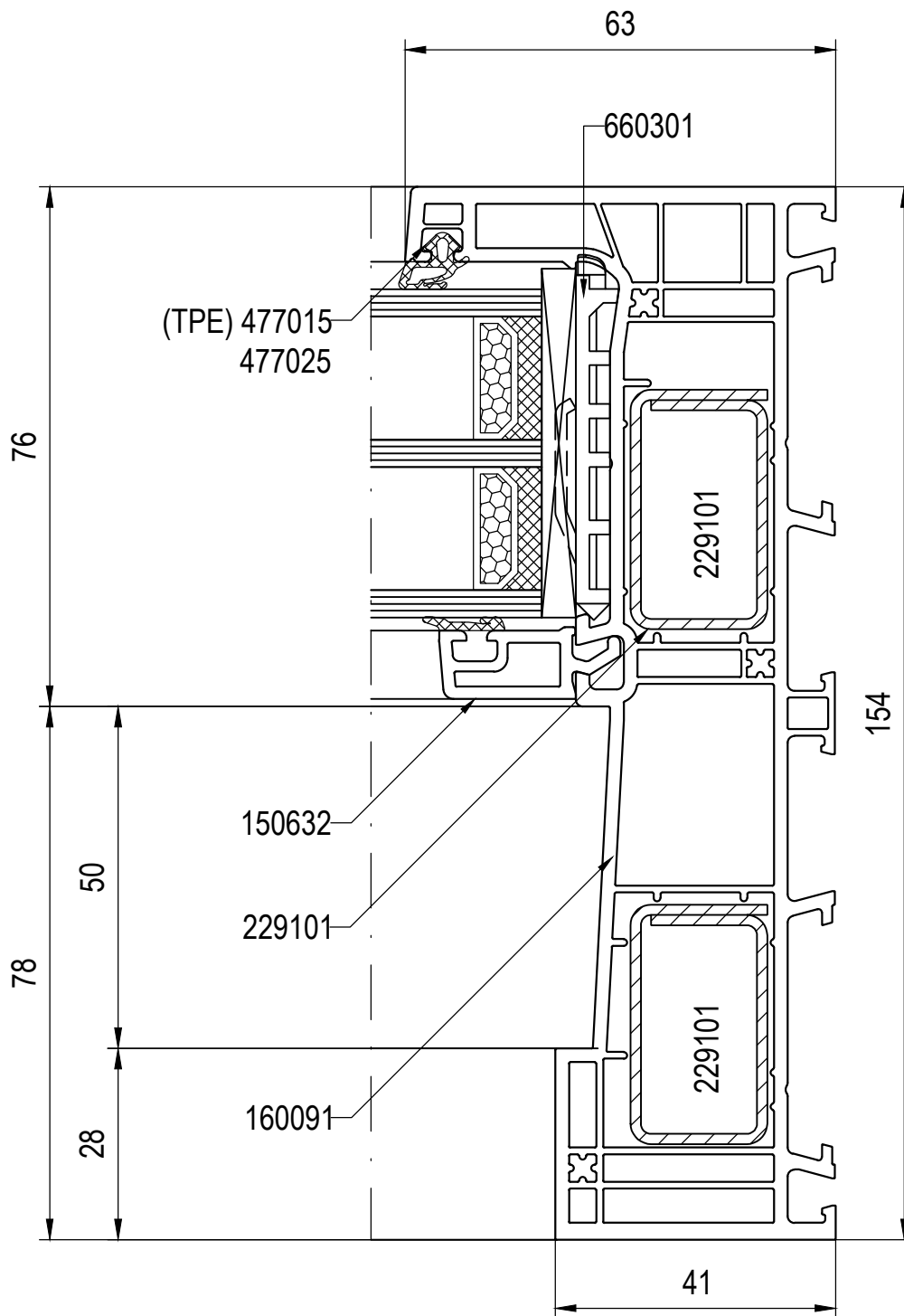
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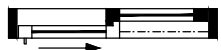
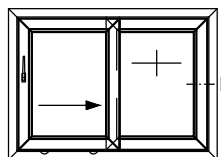
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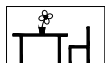
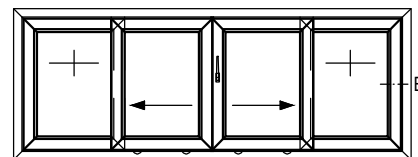


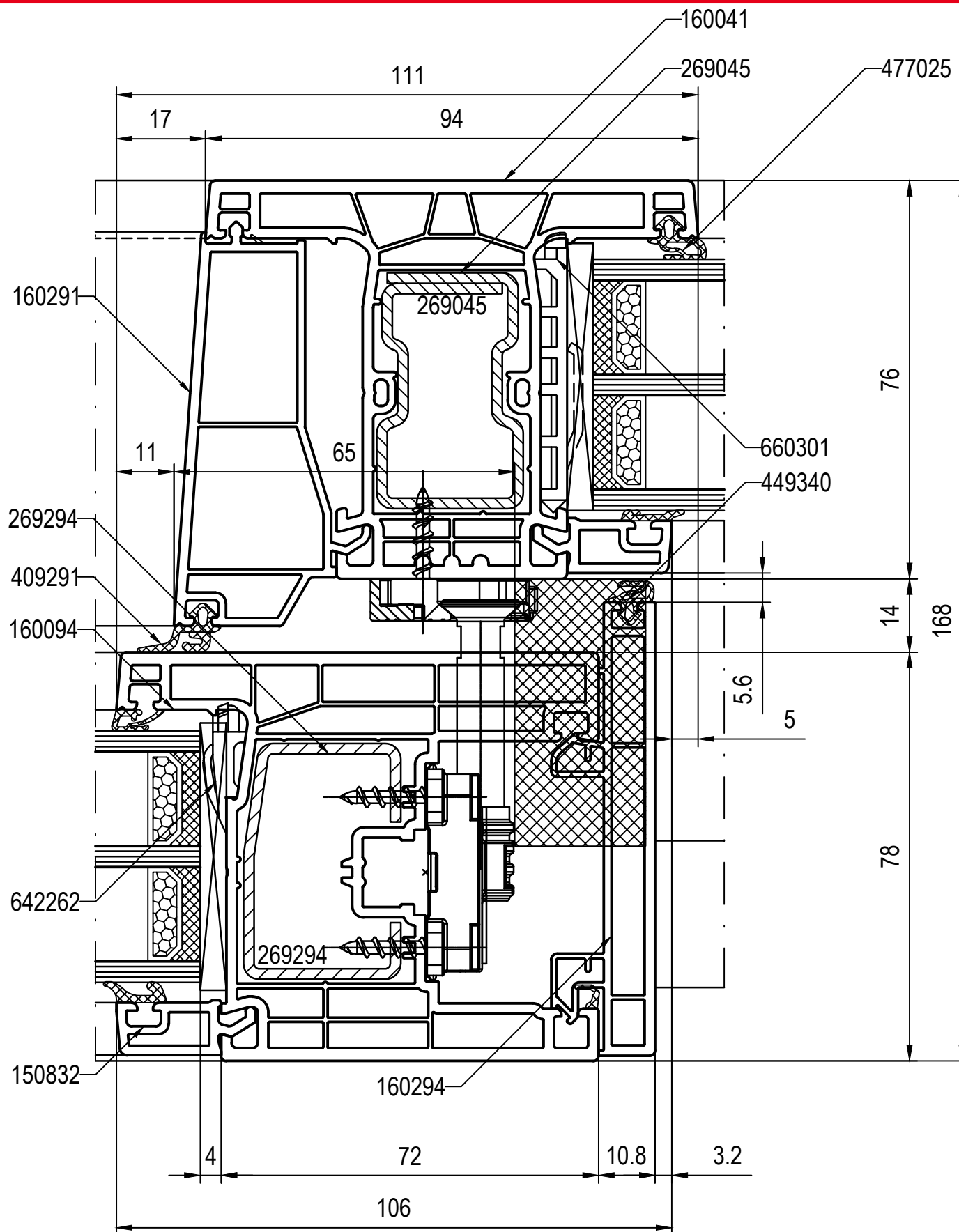


Schema A

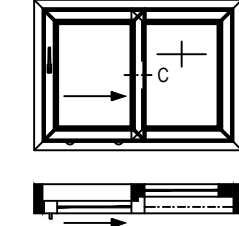


Schema C

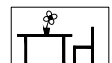
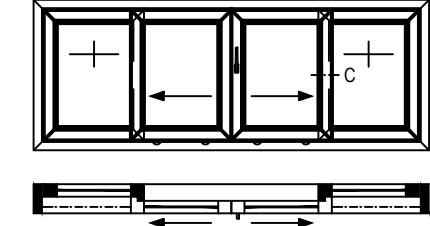




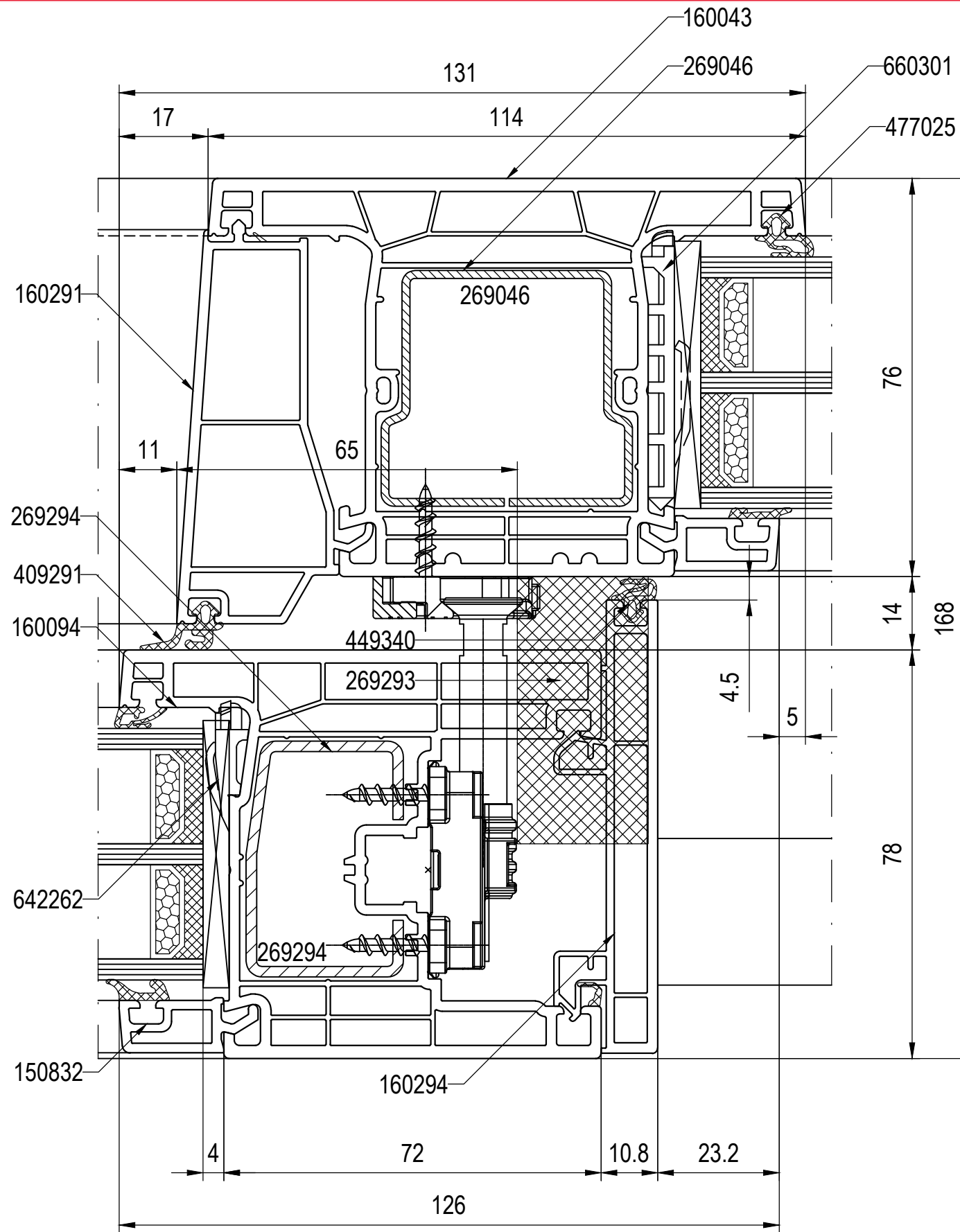
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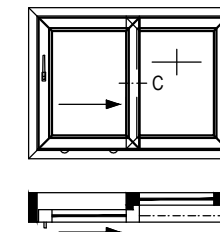
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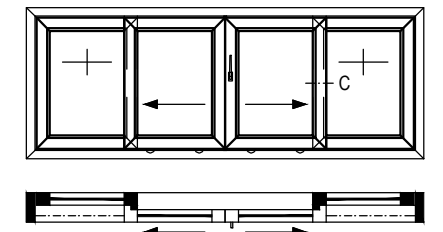
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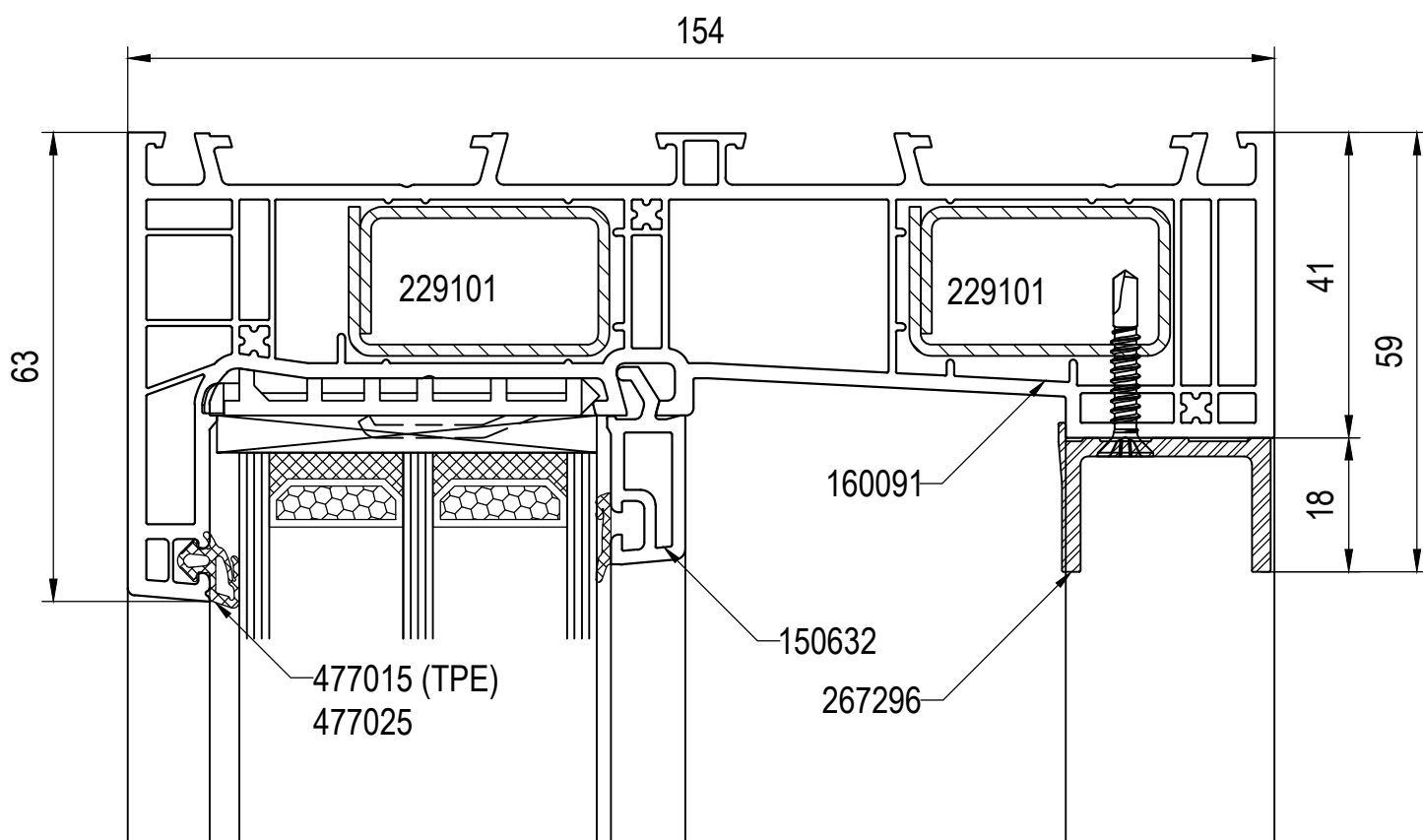
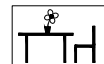
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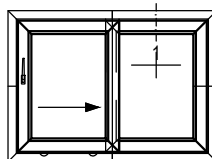
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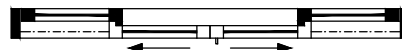
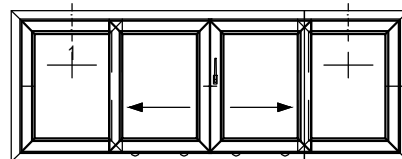
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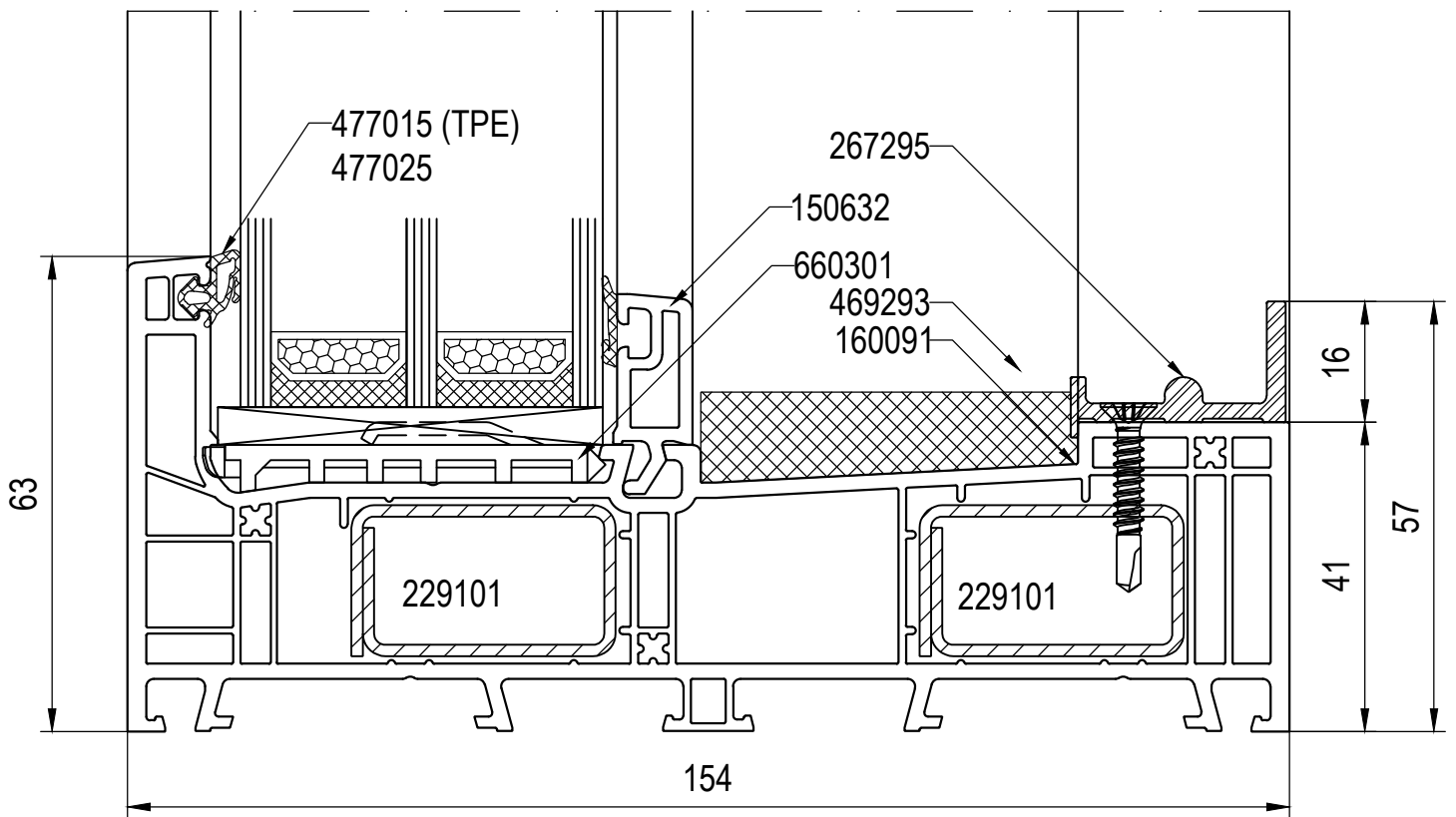
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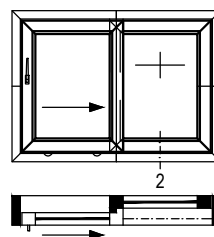
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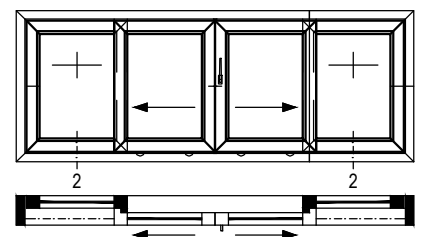
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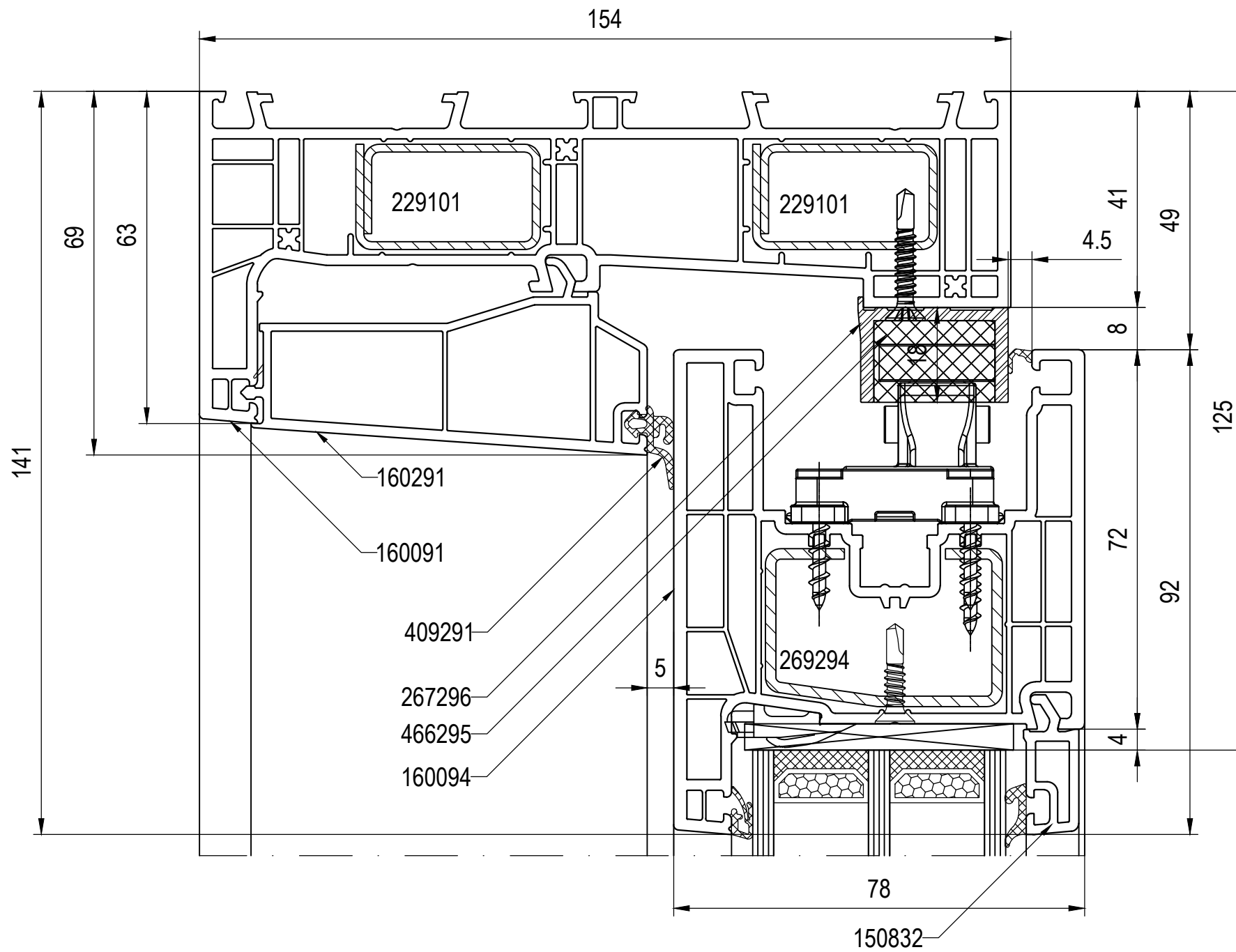
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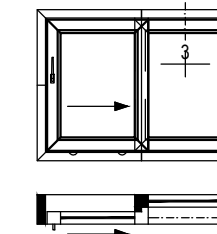
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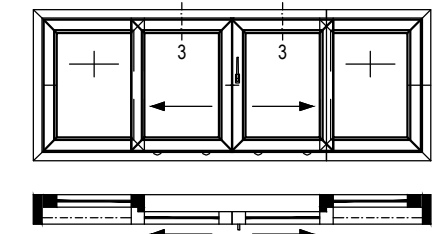
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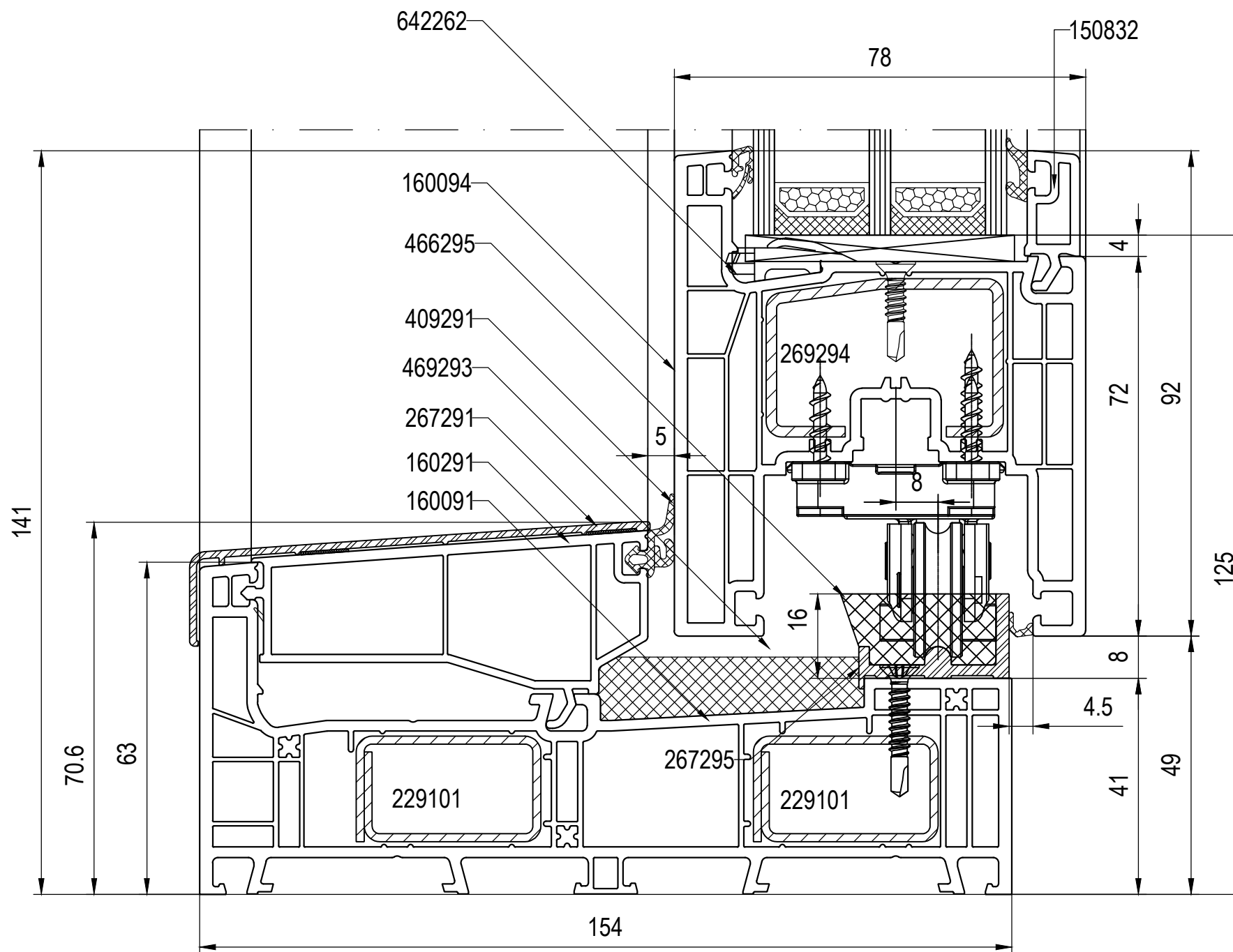
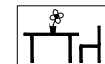
Schema A



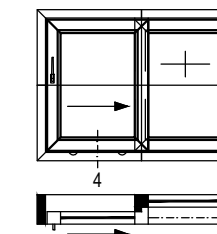
Schema C



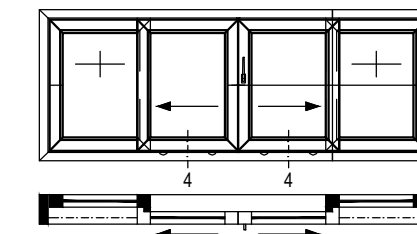
Roto, G-U



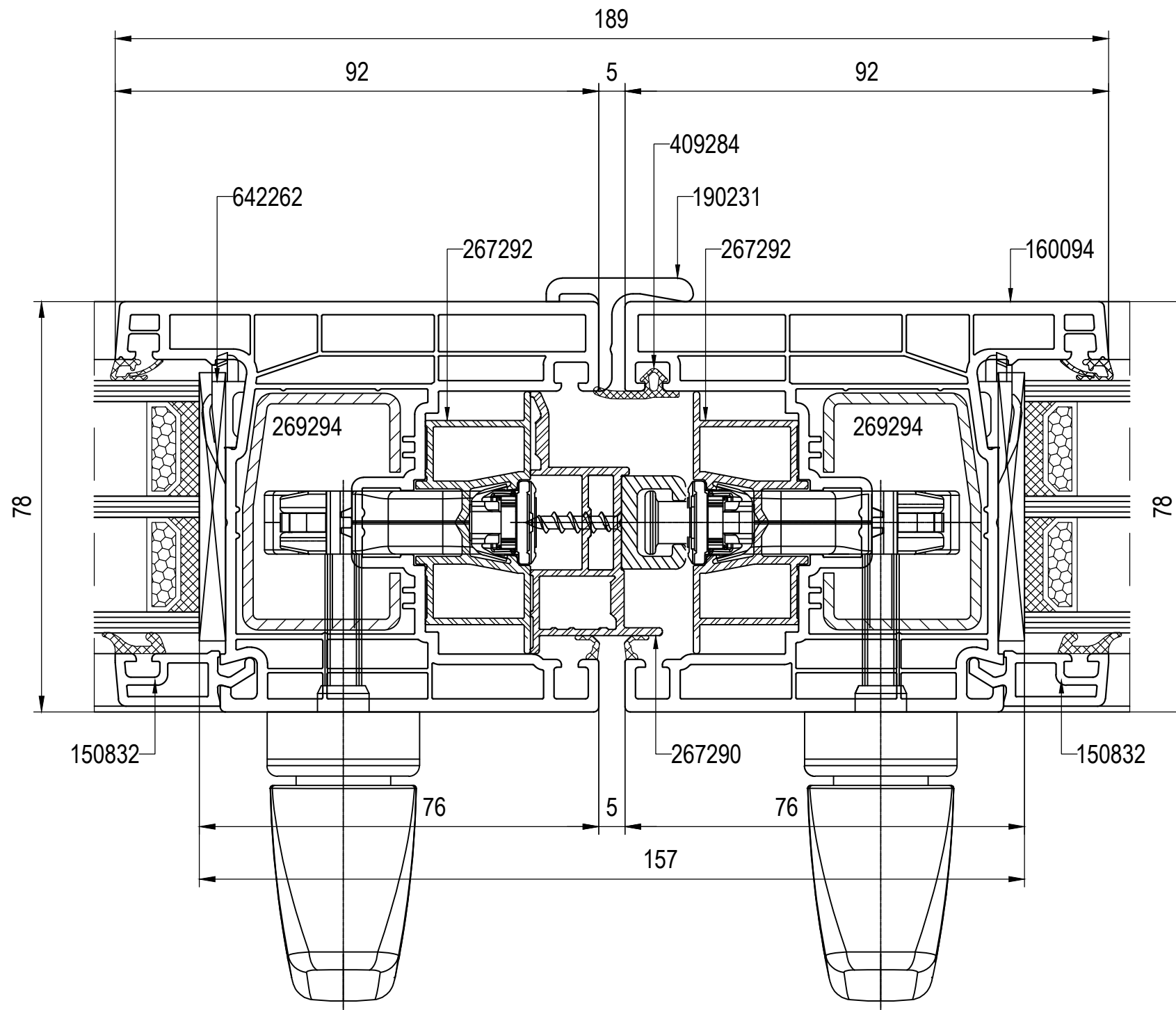
Schema A



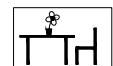
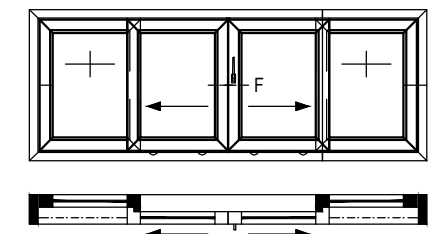
Schema C



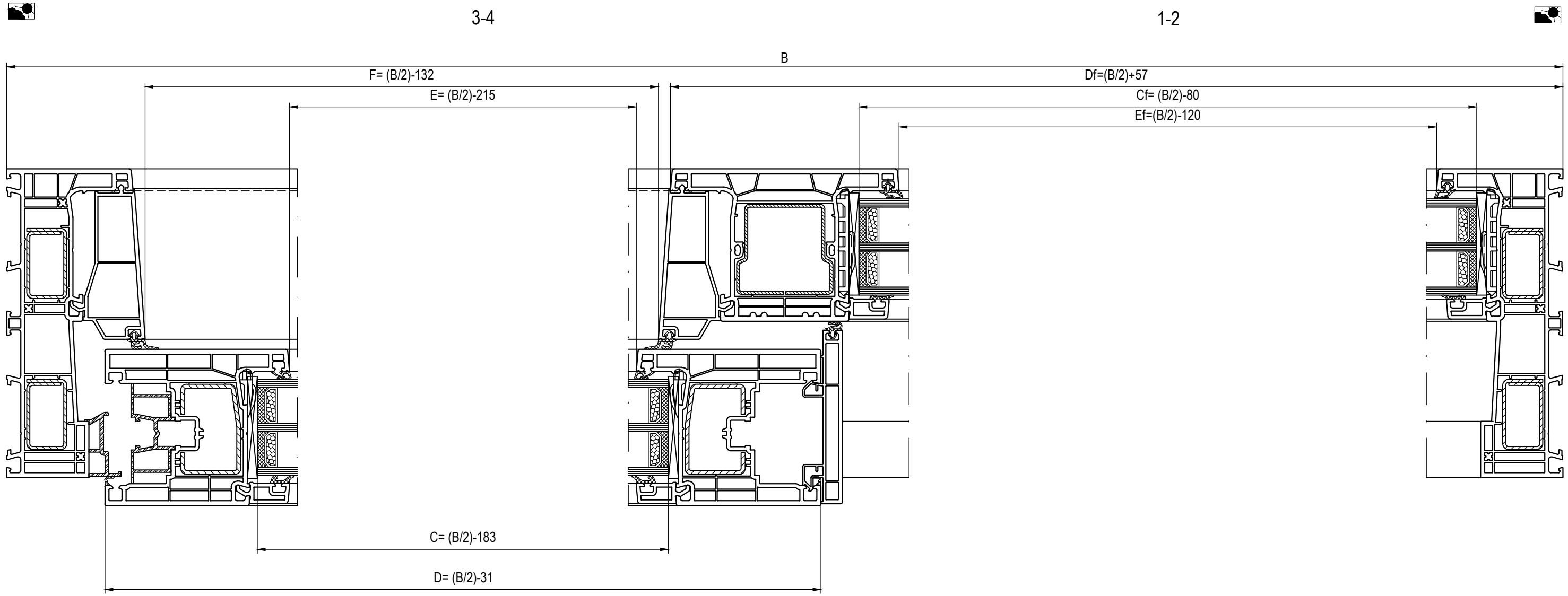
Roto, G-U



Schema C



Roto, G-U



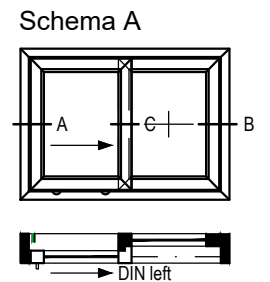
Left cross section: Sliding sash, inside

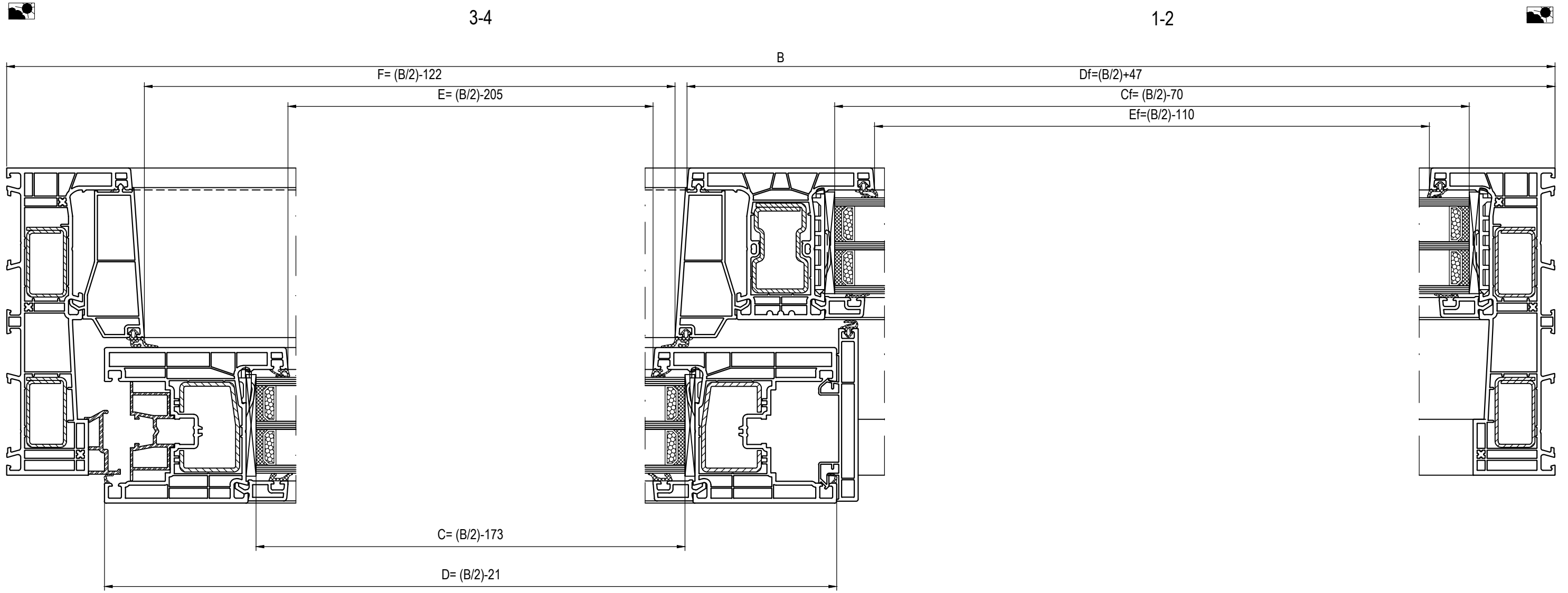
Cross section: Interlock

Right cross section: Fixed sash, outside

Horizontal deduction dimensions	Widths
Schema A	
B= B	Element ¹⁾
C= (B/2)-183	Glass
D= (B/2)-31	Sash ¹⁾
E= (B/2)-215	Clear width sliding sash
F= (B/2)-132	Clearance
Cf= (B/2)-80	Glass fixed sash
Df= (B/2)+57	Fixed sash
Ef= (B/2)-120	Clear width fixed sash
¹⁾ Add weld burn-off!	

Roto, G-U





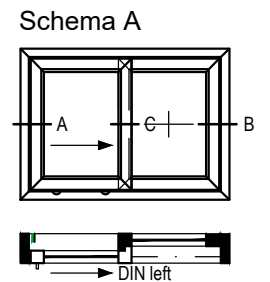
Left cross section: Sliding sash, inside

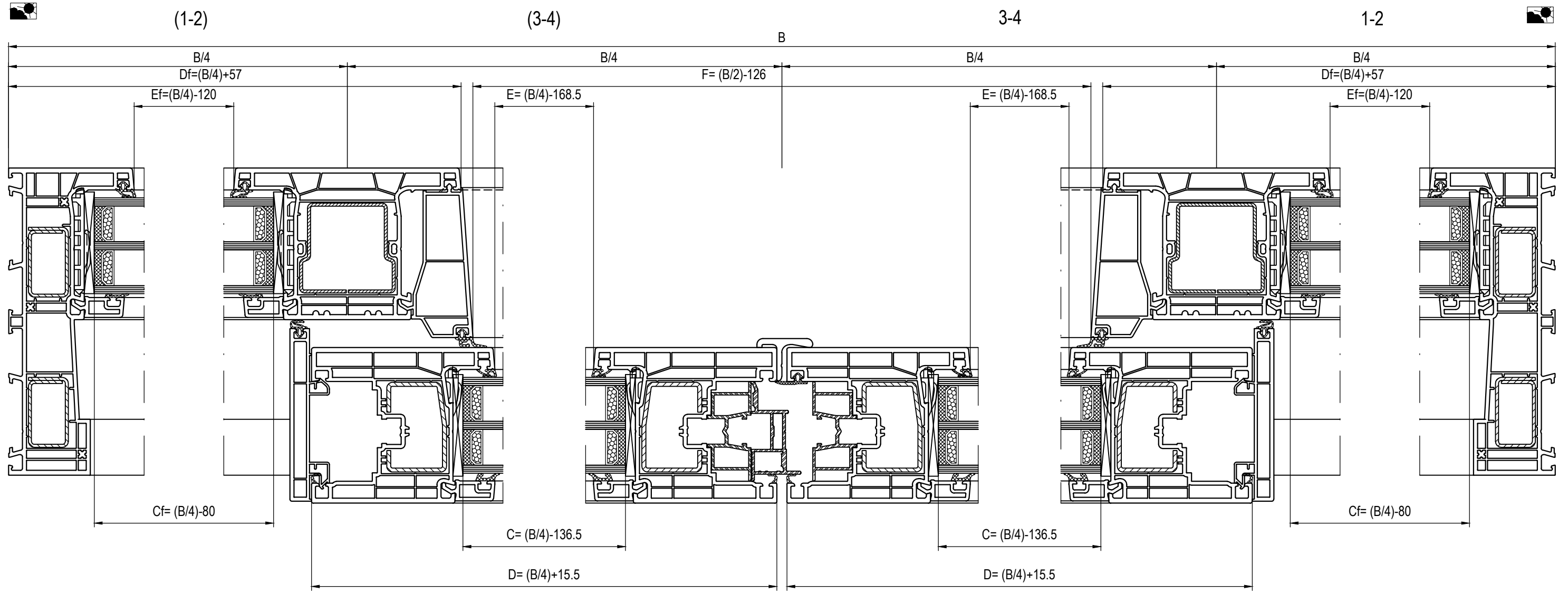
Cross section: Interlock

Right cross section: Fixed sash, outside

Horizontal deduction dimensions	Widths
Schema A	
B= B	Element ¹⁾
C= (B/2)-173	Glass
D= (B/2)-21	Sash ¹⁾
E= (B/2)-205	Clear width sliding sash
F= (B/2)-122	Clearance
Cf= (B/2)-70	Glass fixed sash
Df= (B/2)+47	Fixed sash
Ef= (B/2)-110	Clear width fixed sash
¹⁾ Add weld burn-off!	

Roto, G-U

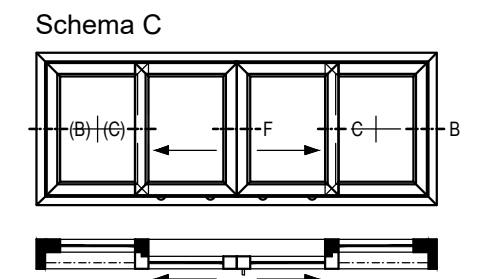


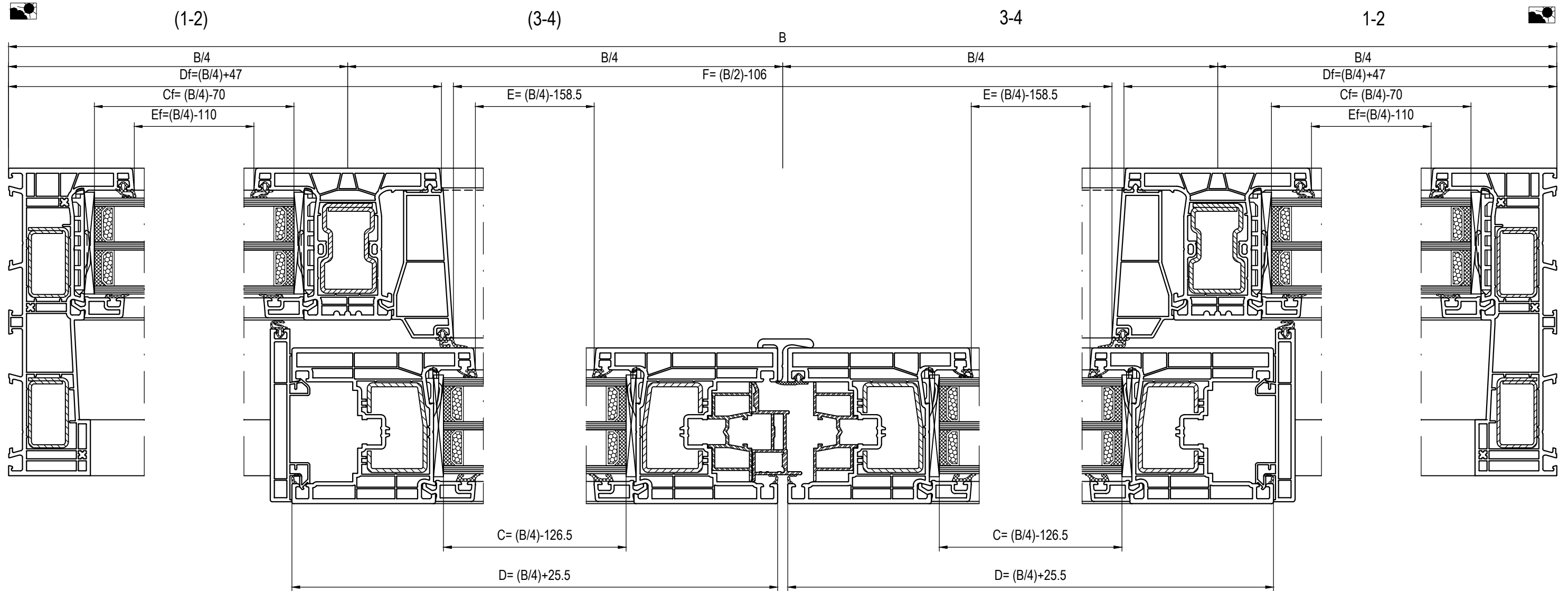


Left cross section: Fixed sash, outside Cross section: Interlock Cross section: central joint Cross section: Interlock Right cross section: Fixed sash, outside

Horizontal deduction dimensions	Widths
Schema C	
B= B	Element 1)
C= (B/4)-136.5	Glass
D= (B/4)+15.5	Sash 1)
E= (B/4)-168.5	Clear width sliding sash
F= (B/2)-126	Clearance
Cf= (B/4)-80	Glass fixed sash
Df= (B/4)+57	Fixed sash
Ef= (B/4)-120	Clear width fixed sash
1) Add weld burn-off!	

Roto, G-U

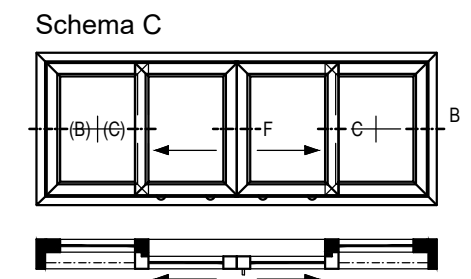


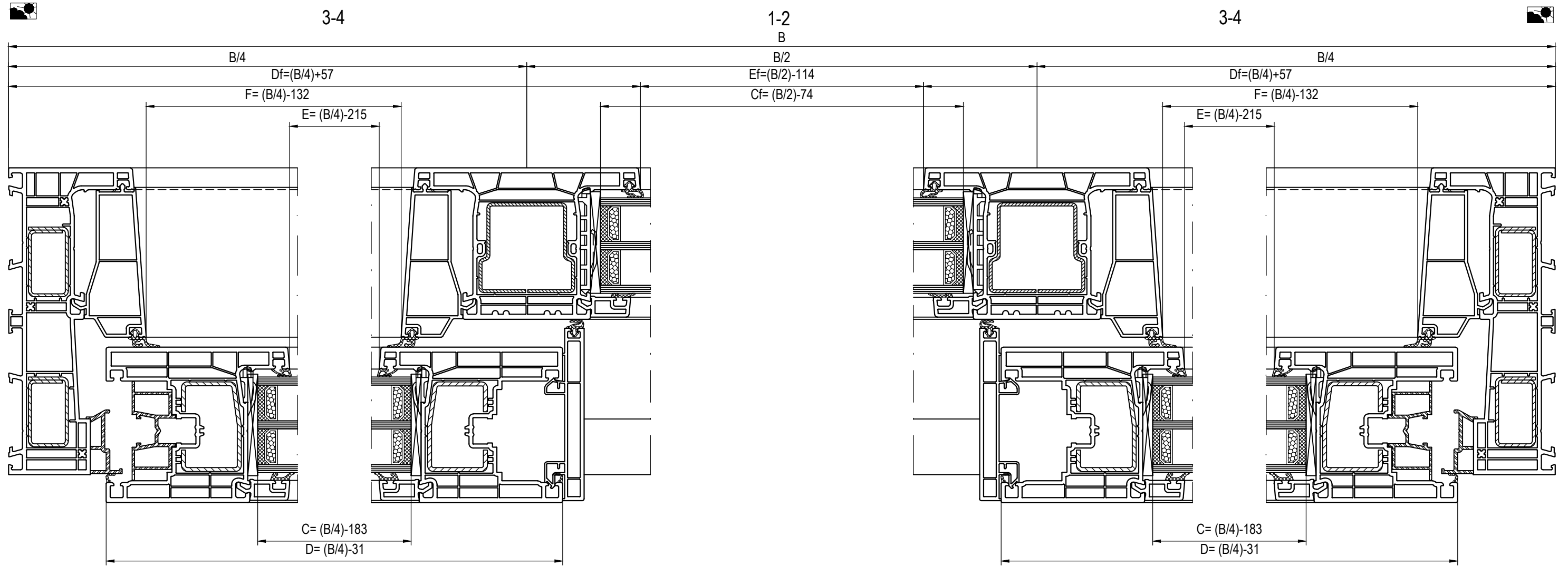


Left cross section: Fixed sash, outside Cross section: Interlock Cross section: central joint Cross section: Interlock Right cross section: Fixed sash, outside

Horizontal deduction dimensions	Widths
Schema C	
B= B	Element ¹⁾
C= (B/4)-126.5	Glass
D= (B/4)+25.5	Sash ¹⁾
E= (B/4)-158.5	Clear width sliding sash
F= (B/2)-106	Clearance
Cf= (B/4)-70	Glass fixed sash
Df= (B/4)+47	Fixed sash
Ef= (B/4)-110	Clear width fixed sash
¹⁾ Add weld burn-off!	

Roto, G-U





Left cross section: Sliding sash, inside

Cross section: Interlock

Central cross section: Fixed sash, outside

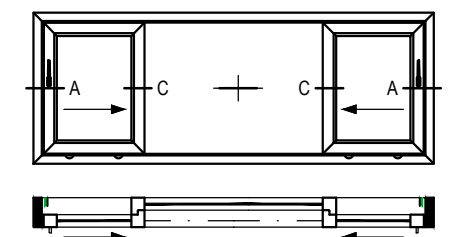
Cross section: Interlock

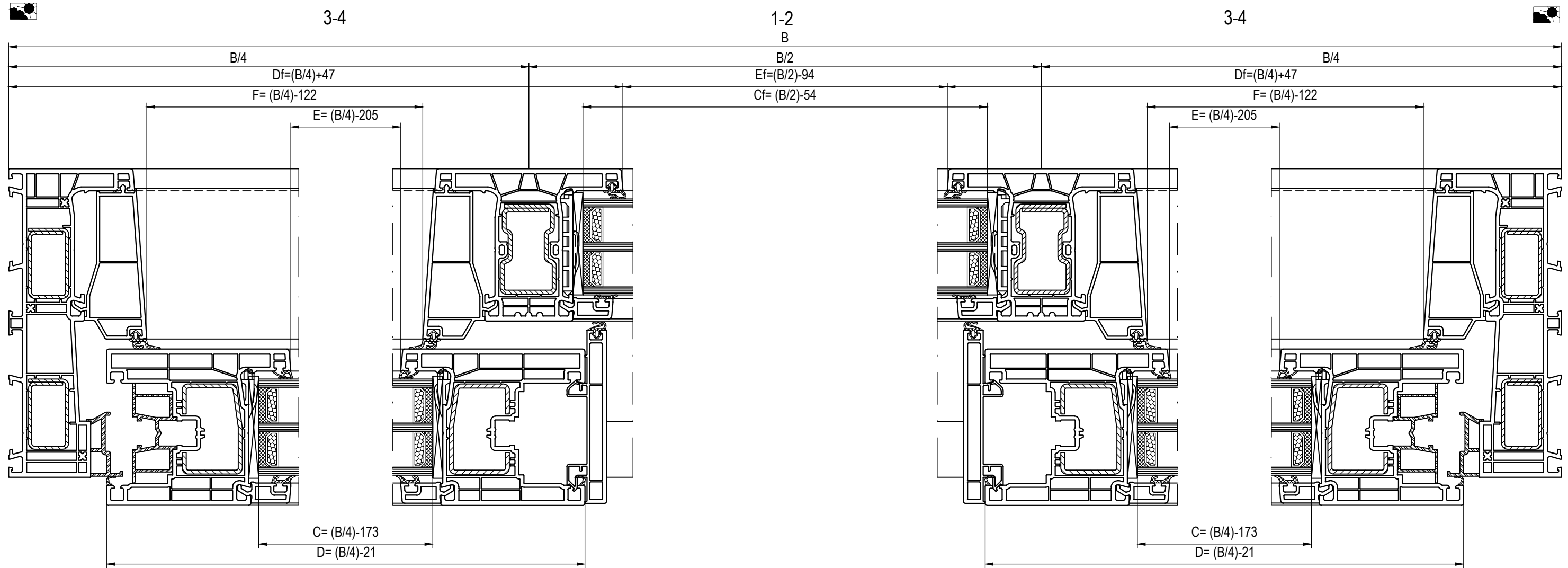
Left cross section: Sliding sash, inside

Horizontal deduction dimensions	Widths
Schema K	
B= B	Element ¹⁾
C= (B/4)-183	Glass
D= (B/4)-31	Sash ¹⁾
E= (B/4)-215	Clear width sliding sash
F= (B/2)-132	Clearance
Cf= (B/4)-74	Glass fixed sash
Df= (B/4)+57	Fixed sash
Ef= (B/4)-114	Clear width fixed sash
¹⁾ Add weld burn-off!	

Roto, G-U

Schema K





Left cross section: Sliding sash, inside

Cross section: Interlock

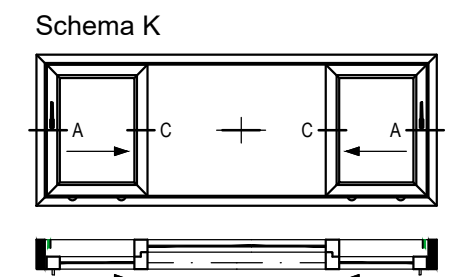
Central cross section: Fixed sash, outside

Cross section: Interlock

Left cross section: Sliding sash, inside

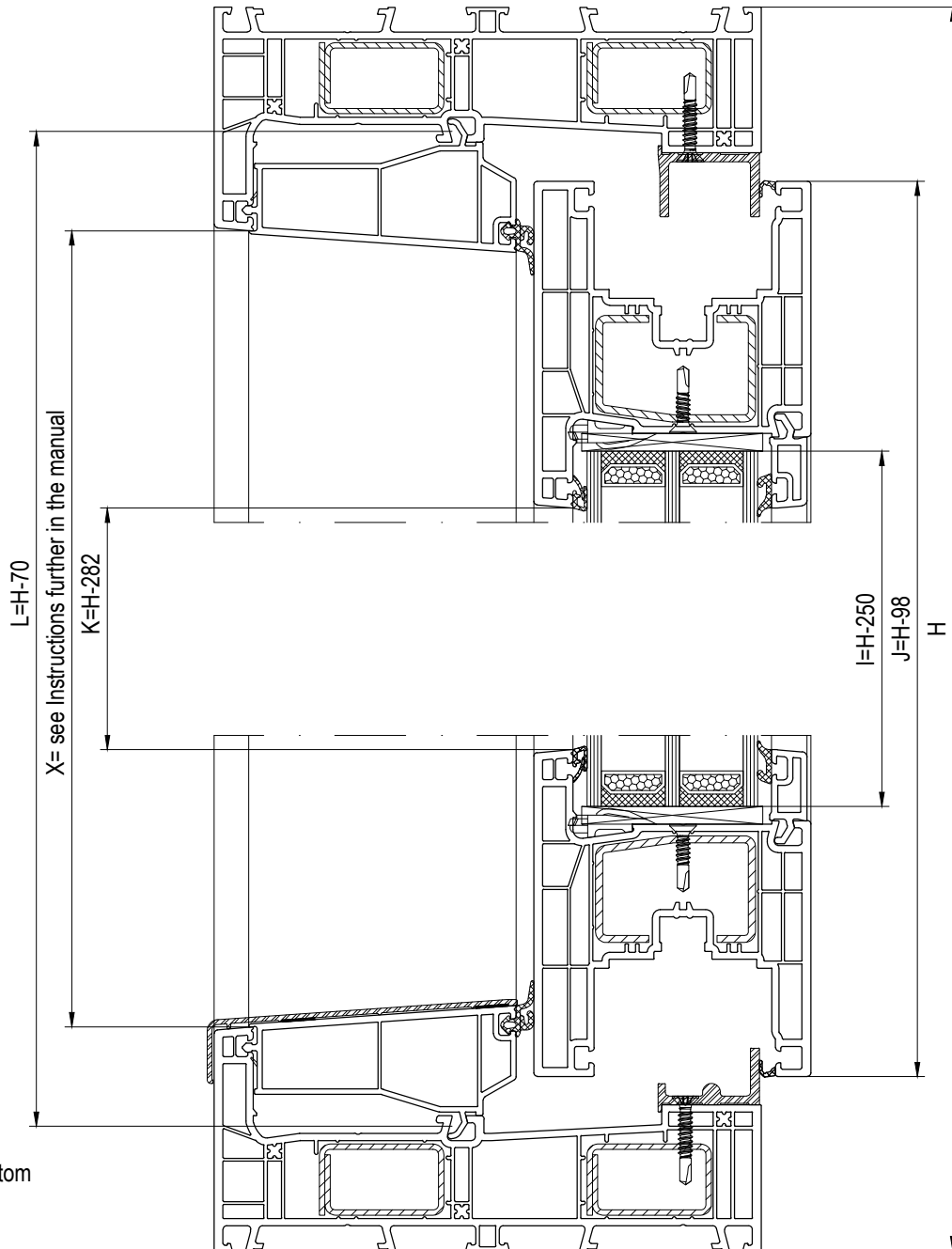
Horizontal deduction dimensions	Widths
Schema K	
B= B	Element ¹⁾
C= (B/4)-173	Glass
D= (B/4)-21	Sash ¹⁾
E= (B/4)-205	Clear width sliding sash
F= (B/2)-122	Clearance
Cf= (B/4)-54	Glass fixed sash
Df= (B/4)+47	Fixed sash
Ef= (B/4)-94	Clear width fixed sash
¹⁾ Add weld burn-off!	

Roto, G-U





Cross section, top



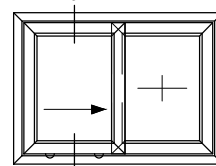
Cross section, bottom



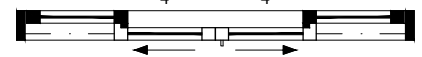
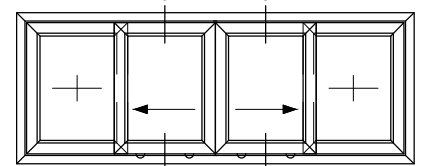
Vertical deduction dimensions	Heights
H= H	Element 1)
I= H-250	Glass
J= H-98	Sash 1)
K= H-282	Clear height between sashes
L= H-70	Mullion
X= see Manual	Cover profile
1) Add weld burn-off!	

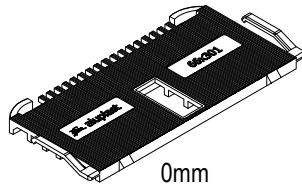
Roto, G-U

Schema A / K



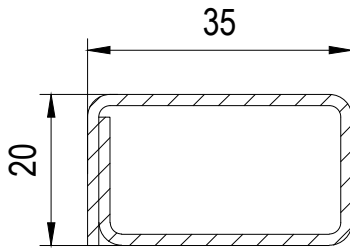
Schema C



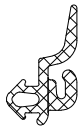


0mm

660301 red glazing block



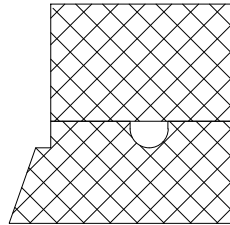
229101 s=1.5mm 2,5*
Reinforcements



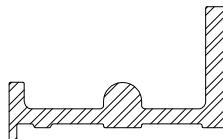
409291 Cover profile gasket



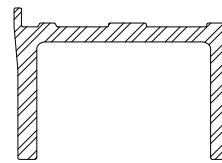
477015 Frame gasket (TPE)
477025 Frame gasket



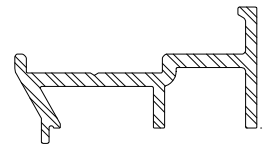
160291 Cover profile



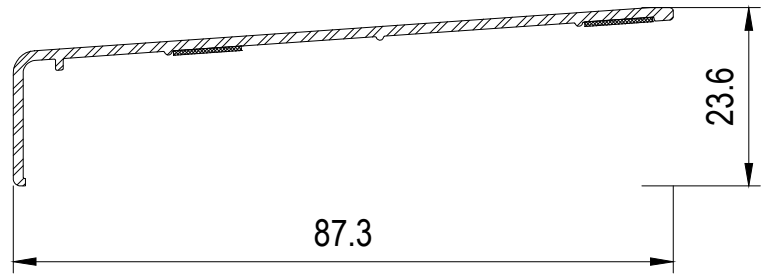
267295 Runner rail



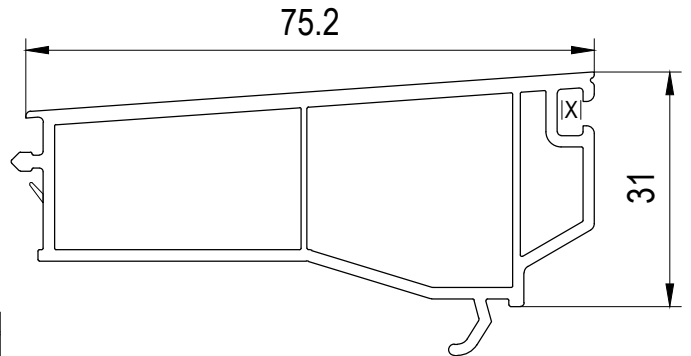
267296 Rail (top)



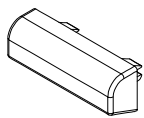
267293 Build-up profile



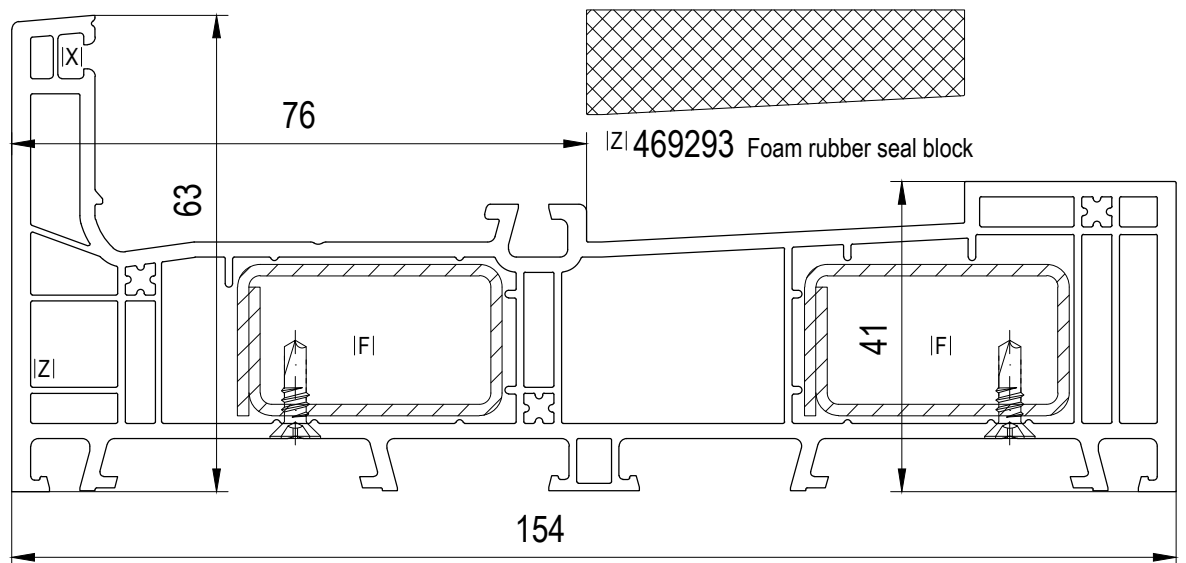
267291 Aluminium step protection



160091 Frame



600290 Drain slot cap



I|J| Bonding of pane
24-54mm

or |A| Spacer

|A| 16-54mm
5 6
1

|A| 16-20mm
4

|A| 16-35mm
4

... refer to chapter 03 A

|A| 16-38mm
0

|A| 16-44mm
4

|A| 16-48mm
0

3.5mm
I|J| 642262 bl
Bonding of pane

H [mm]
I|J| 640033 red 3
I|J| 640034 ye 4
I|J| 640035 gn 5

-1mm
|A| 650250 red
Spacer

1mm
|A| 620250 red

1mm
|A| 650252 red

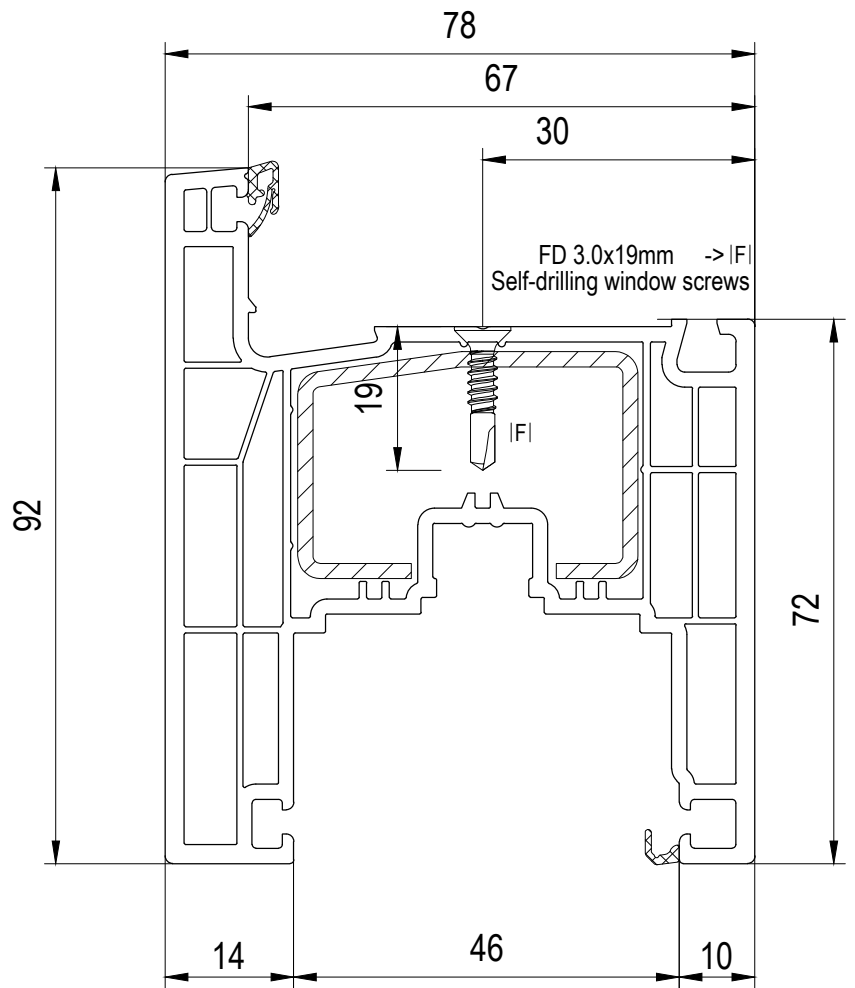
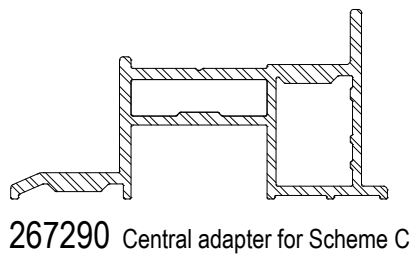
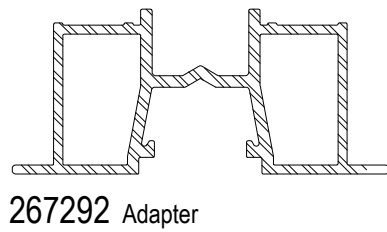
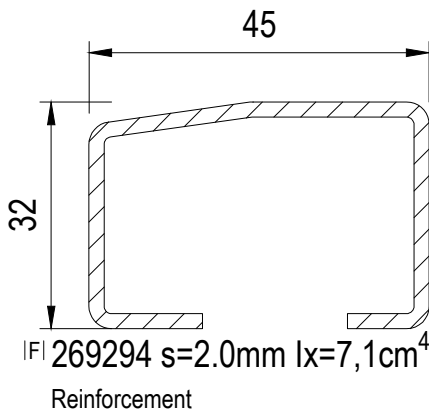
5mm
|A| 655251 gn

1mm
|A| 680250 red

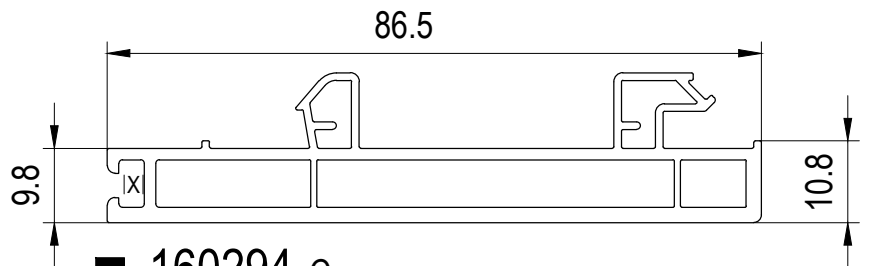
5mm
|A| 685251 gn

Bonding of pane
-> kg
I|J| 642261 bl >45
I|J| 646265 gr <45

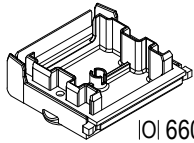
Bonding of pane
-> kg
I|J| 642263 bl >45
I|J| 646266 gr <45



■ 160x94 Sash

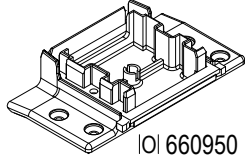


■ 160294 Cover



|OI 660950

|DI 667143 Interconnects

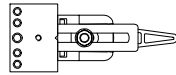


|OI 660950

|DI 667043

|DI Connector

|DI Connector without sticks



|OI 660950 -> |DI |DI

Mounting accessories

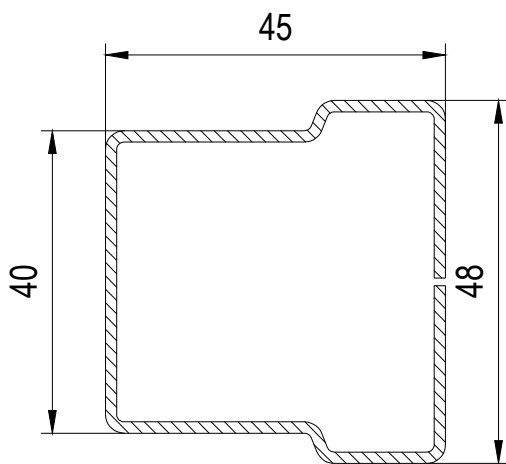
|AI ... refer to chapter 03 A

|AI 14-52mm



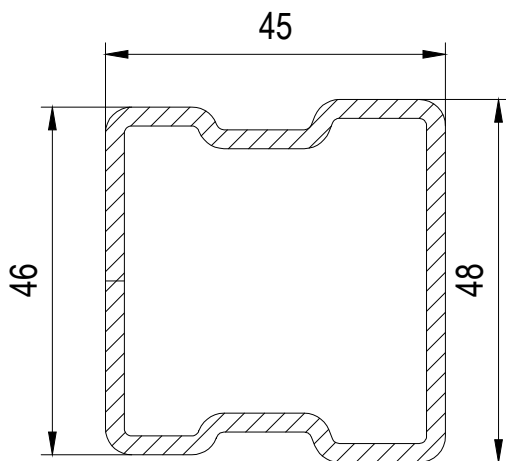
0mm

|AI 660301 red
Spacer



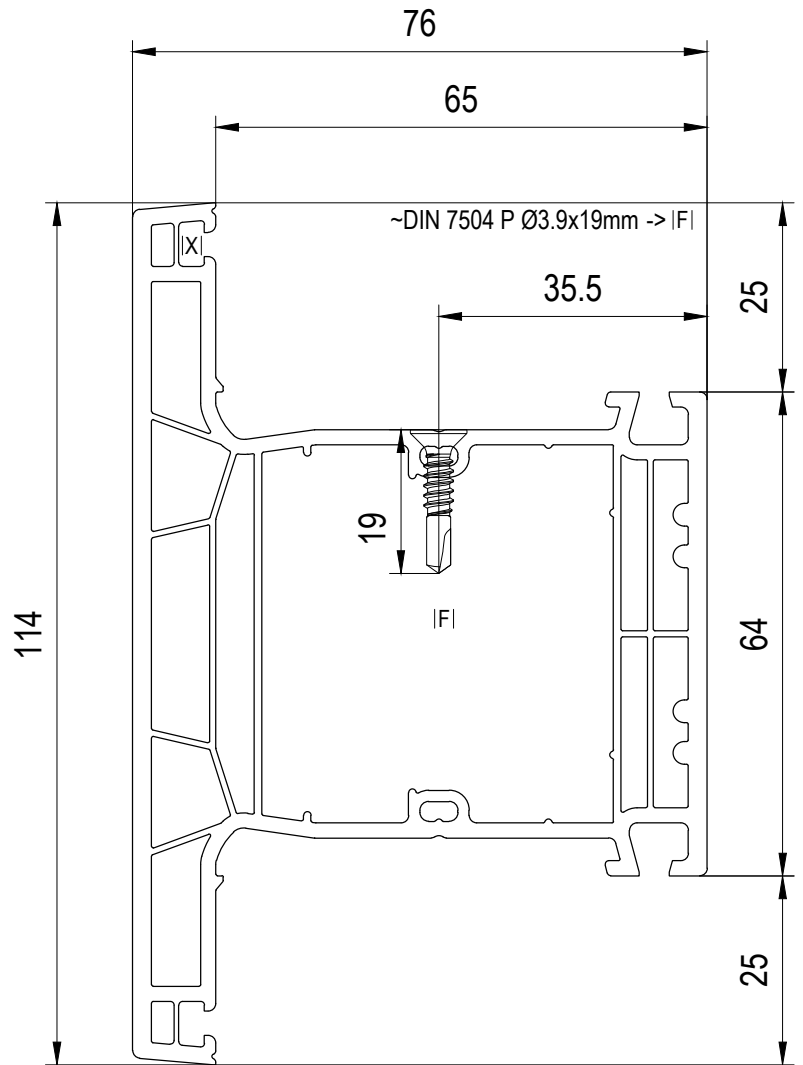
|FI 269046 s=1.5mm 7,8

Reinforcements



|FI 269043 s=2.5mm 12,9*

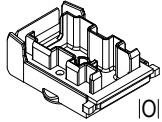
Reinforcements



■ 160x43

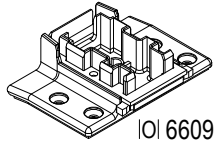


|XI 477025 gasket (mullions / frame)



|OI 660950

ØI 667141

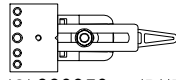


|OI 660950

ØI 667041

DI Connector

DI Connector without sticks



|OI 660950 -> |DI |ØI

Mounting accessories

|AI ... refer to chapter 03 A

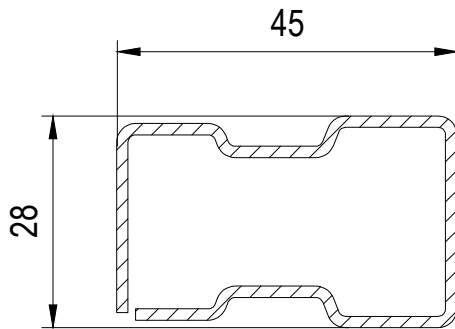
14-52mm



0mm

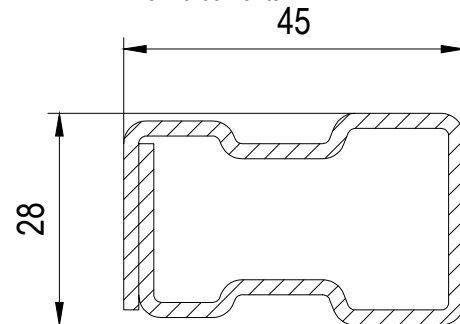
|AI 660301 red

Spacer



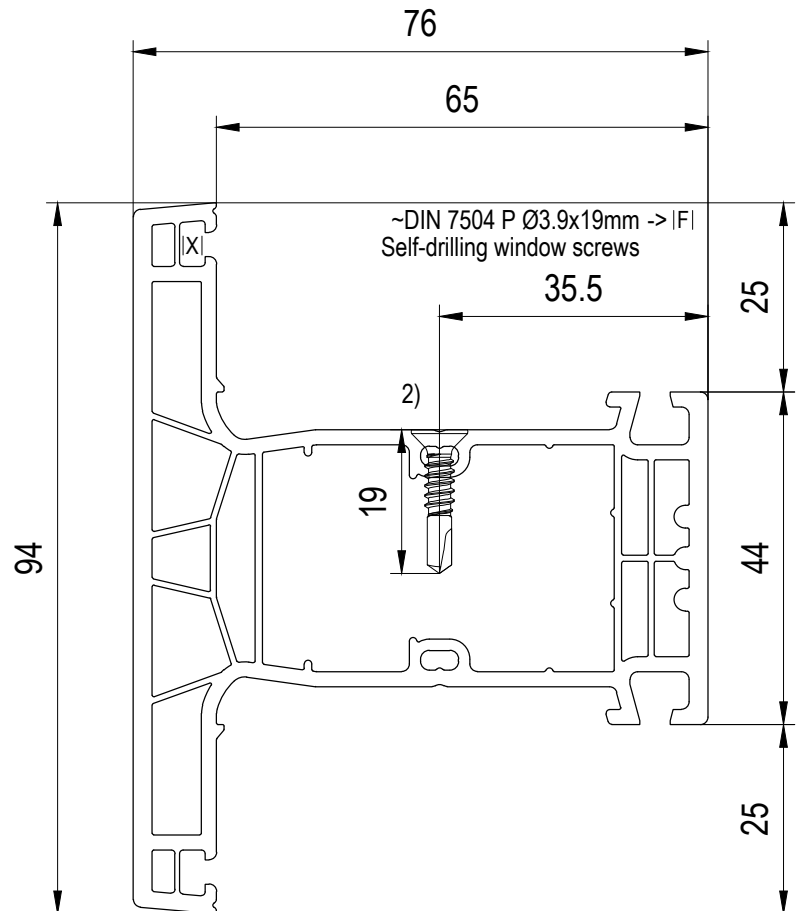
|FI 269041 s=1.5 mm 5,4*

Reinforcements



|FI 269045 s=2.0mm 8,4*

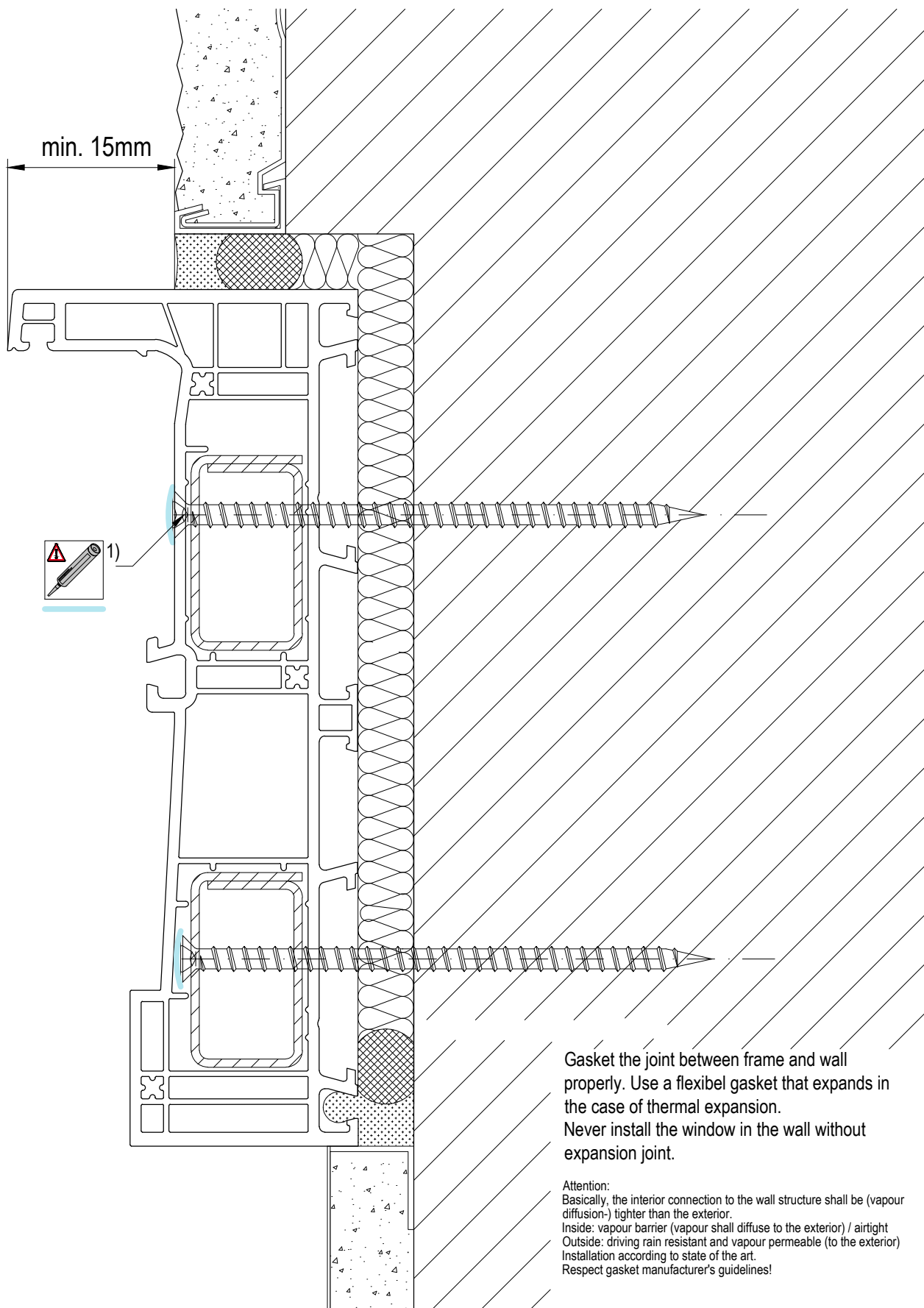
Reinforcements

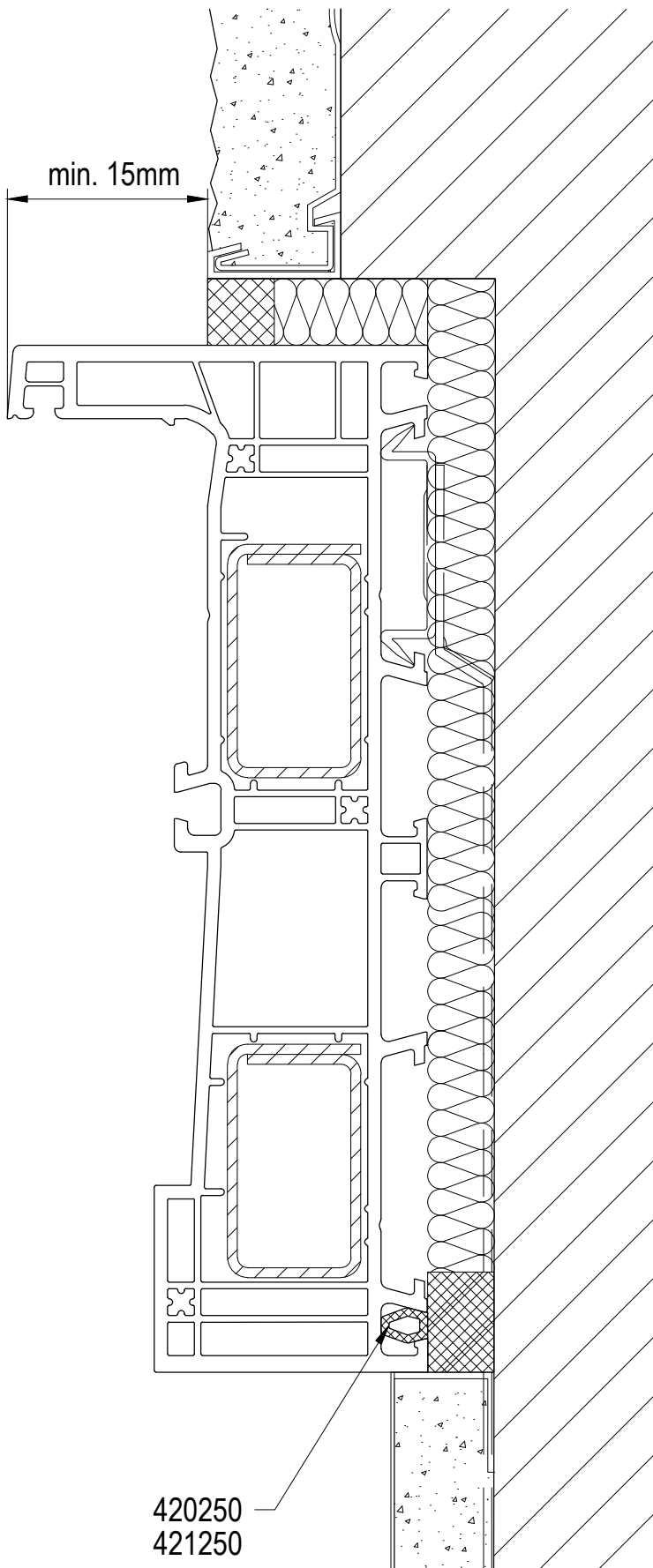


■ 160x41

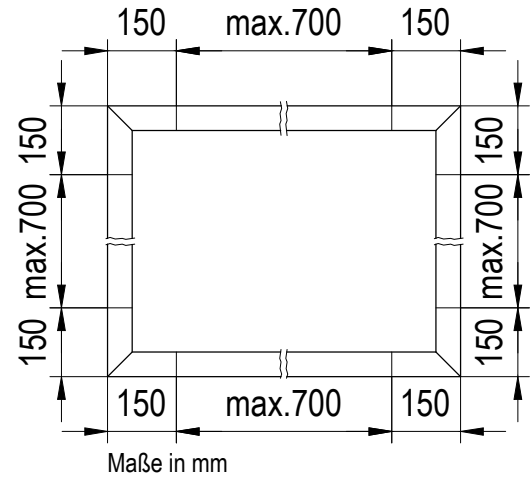


|XI 477025 gasket (mullions / frame)

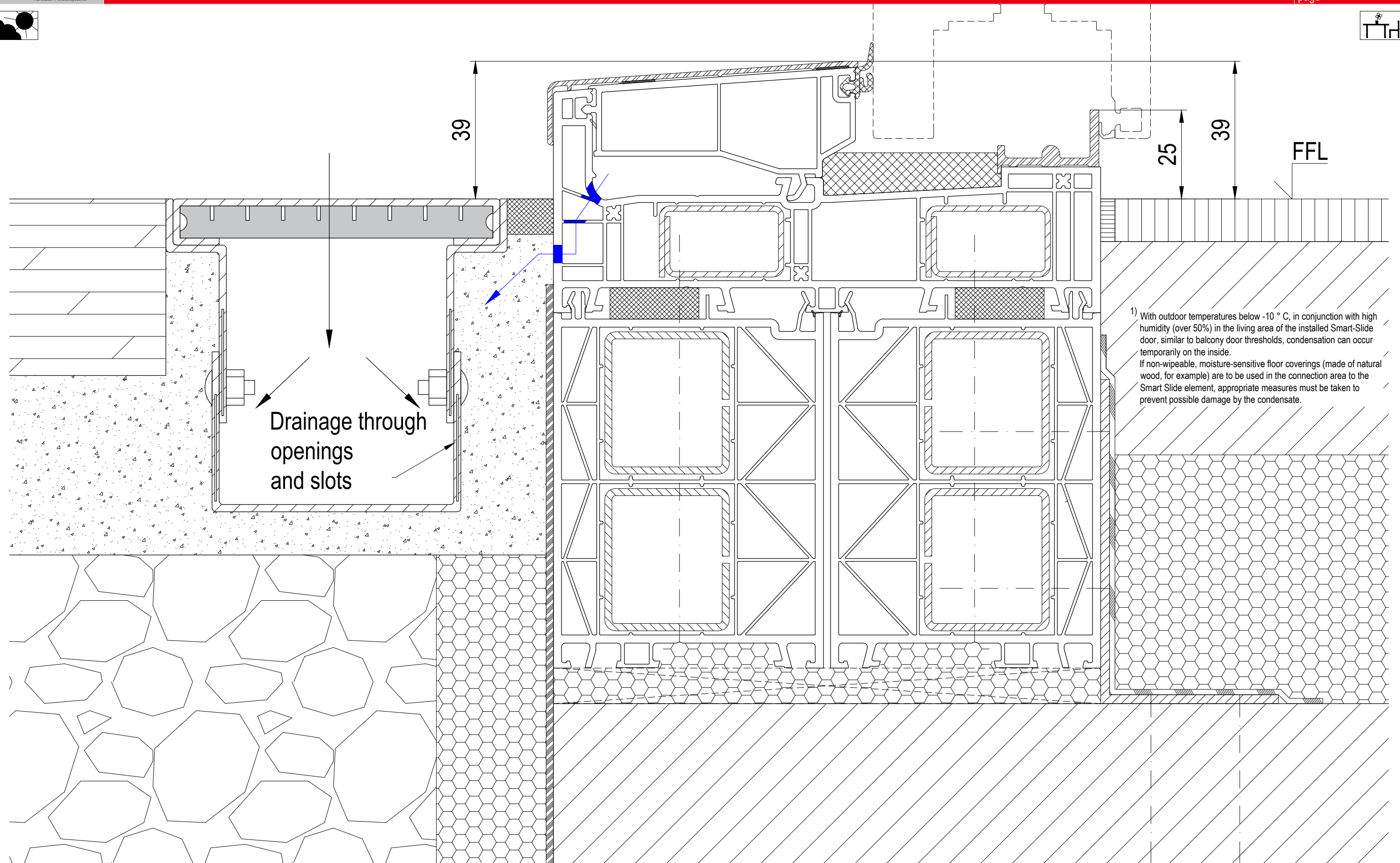


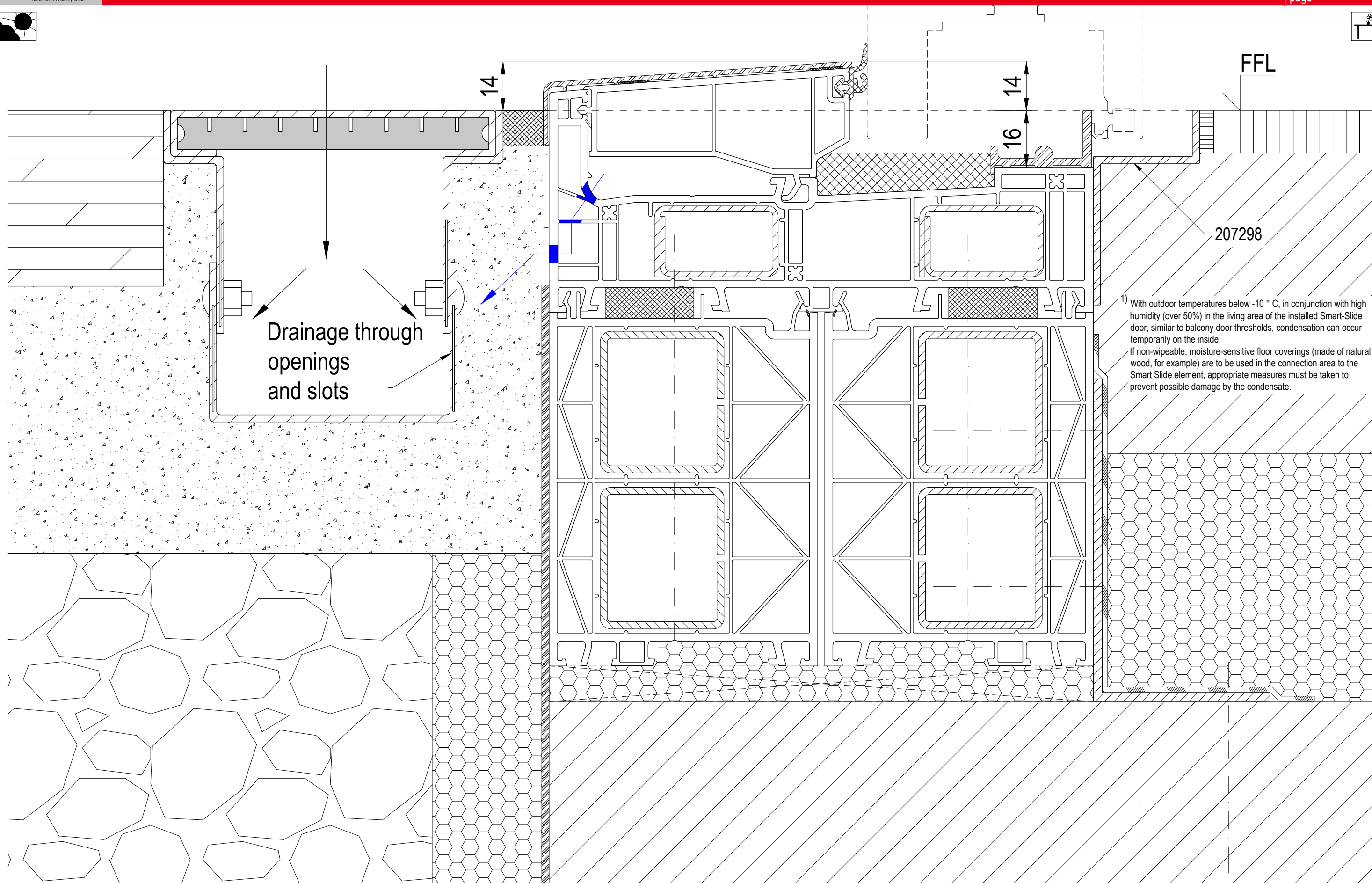


Use special wall anchors, strip iron or tubular frame dowels to fix the frame to the masonry. The distance between the fixing points shall not exceed 700mm.



420250
421250

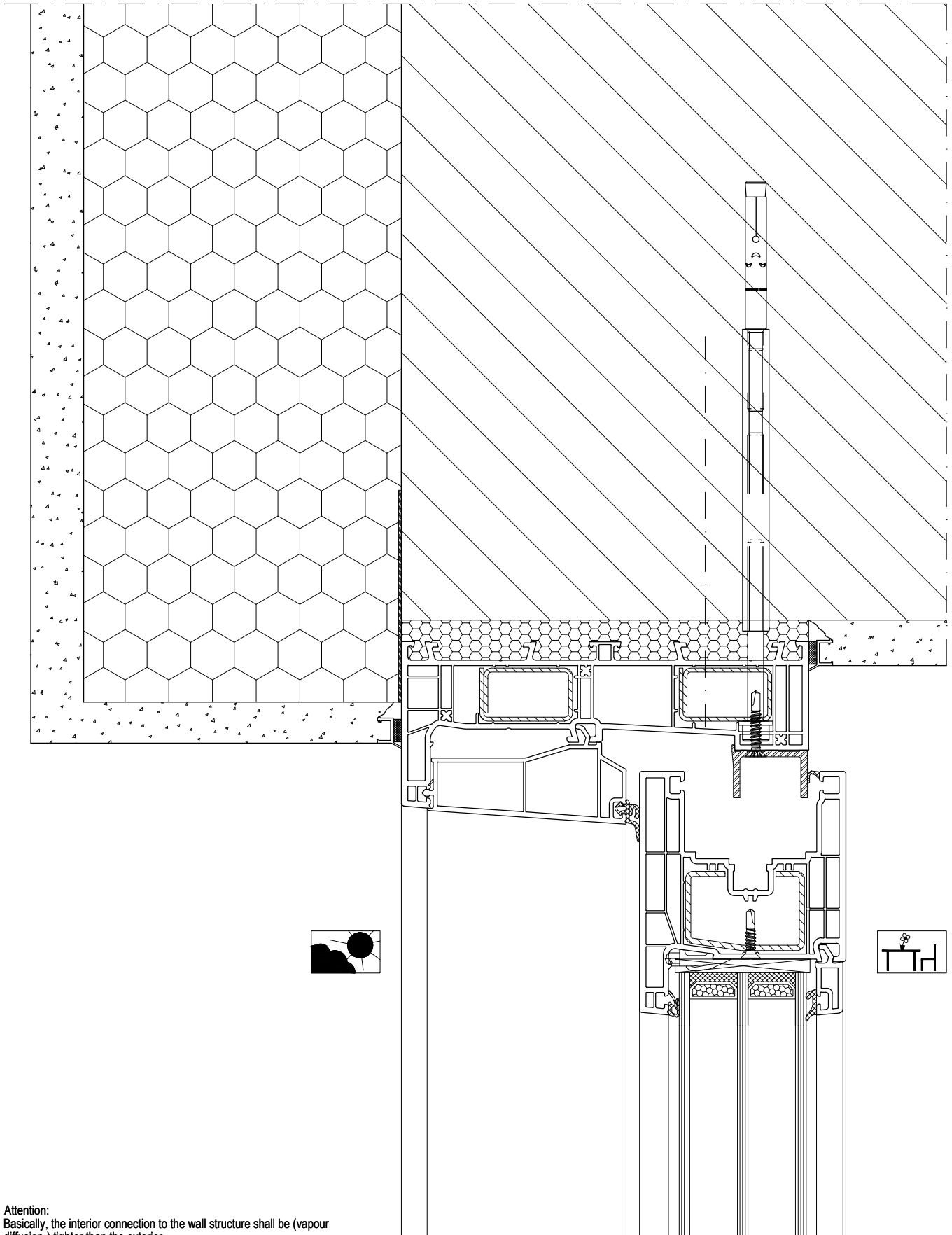




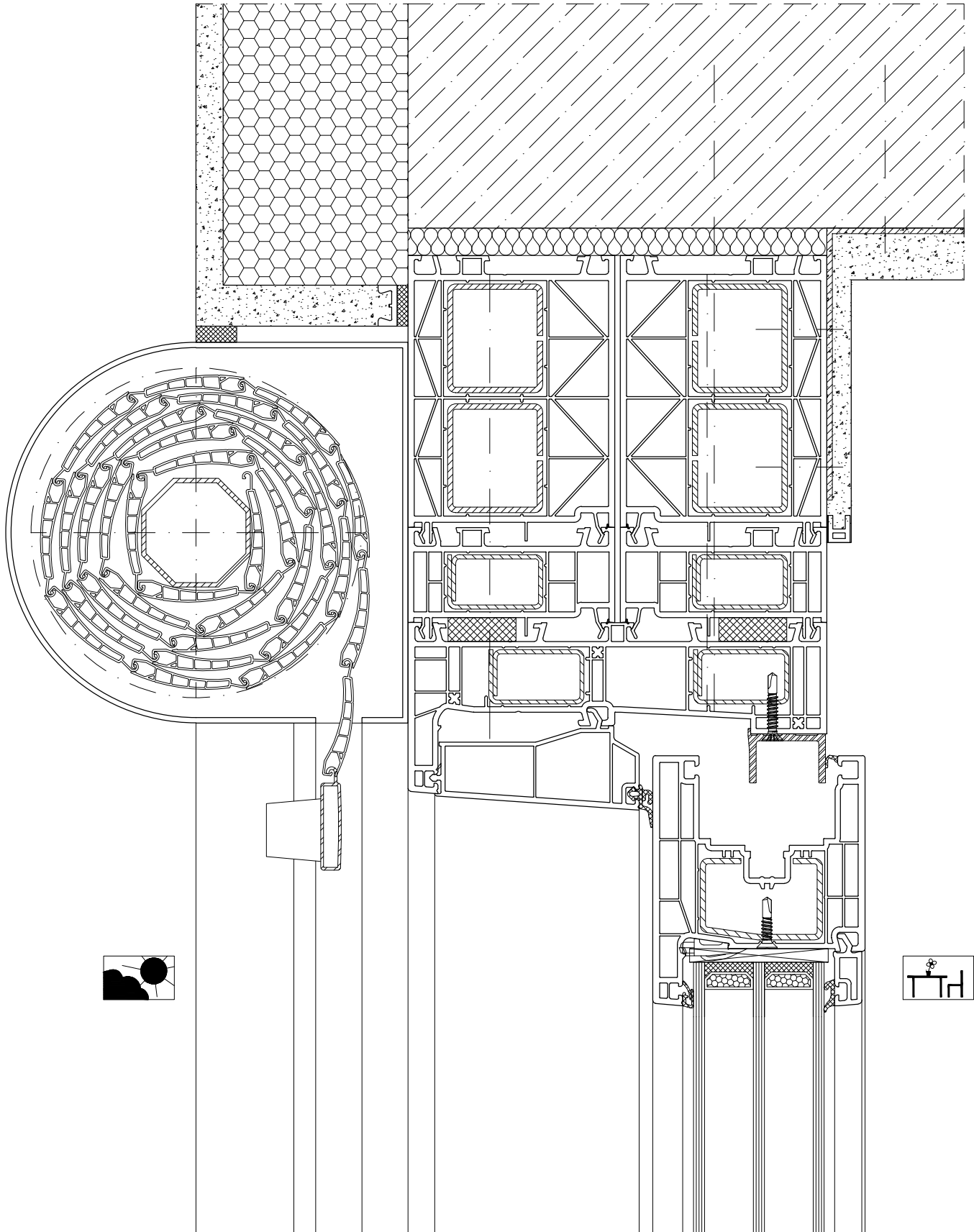
Drainage through
openings
and slots

207298

1) With outdoor temperatures below -10 ° C, in conjunction with high humidity (over 50%) in the living area of the installed Smart-Slide door, similar to balcony door thresholds, condensation can occur temporarily on the inside.
If non-wipeable, moisture-sensitive floor coverings (made of natural wood, for example) are to be used in the connection area to the Smart Slide element, appropriate measures must be taken to prevent possible damage by the condensate.



Attention:
Basically, the interior connection to the wall structure shall be (vapour diffusion-) tighter than the exterior.
Inside: vapour barrier (vapour shall diffuse to the exterior) / airtight
Outside: driving rain resistant and vapour permeable (to the exterior)
Installation according to state of the art.
Respect gasket manufacturer's guidelines!

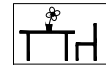
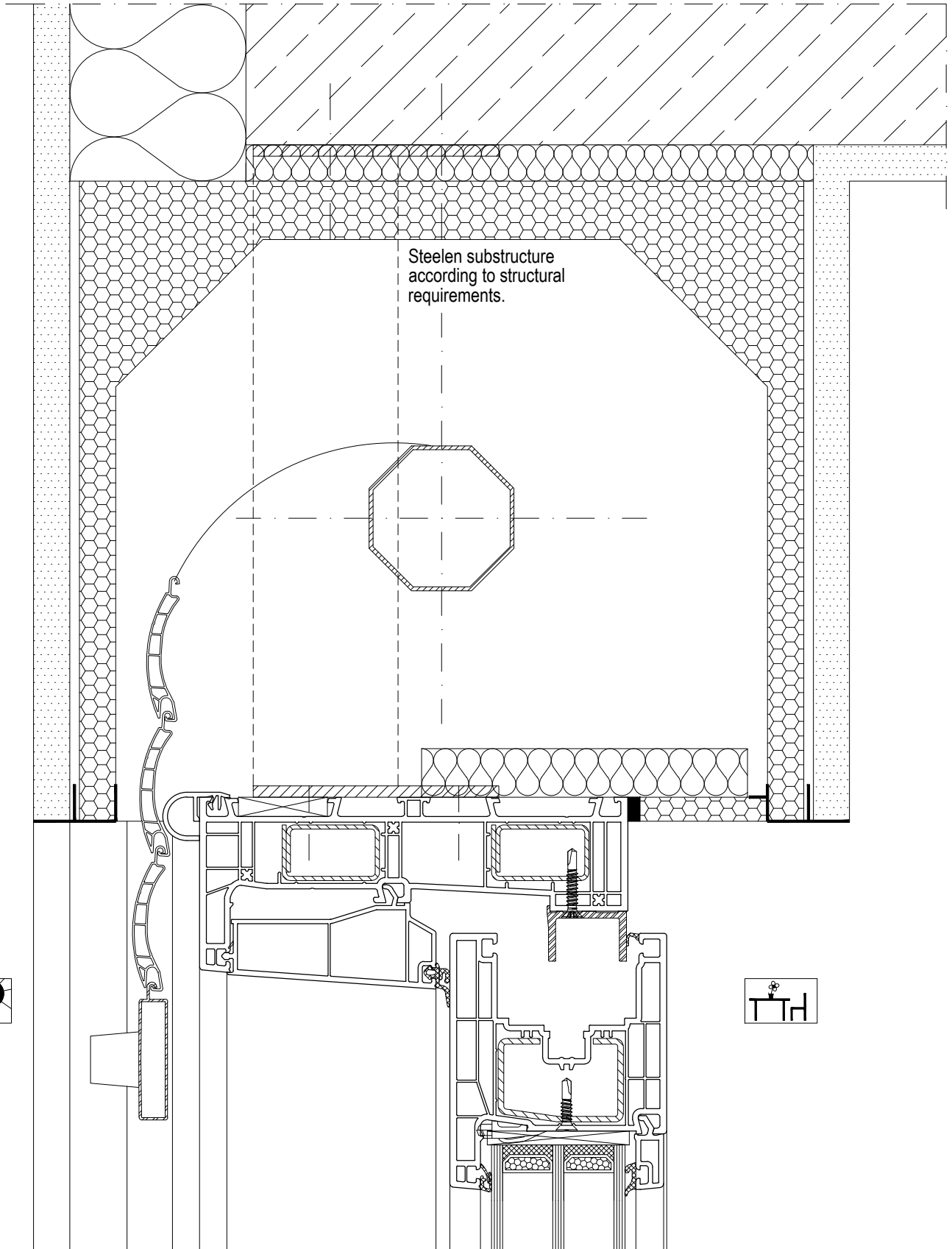


Attention:
Basically, the interior connection to the wall structure shall be (vapour diffusion-) tighter than the exterior.
Inside: vapour barrier (vapour shall diffuse to the exterior) / airtight
Outside: driving rain resistant and vapour permeable (to the exterior)
Installation according to state of the art.
Respect gasket manufacturer's guidelines!

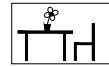
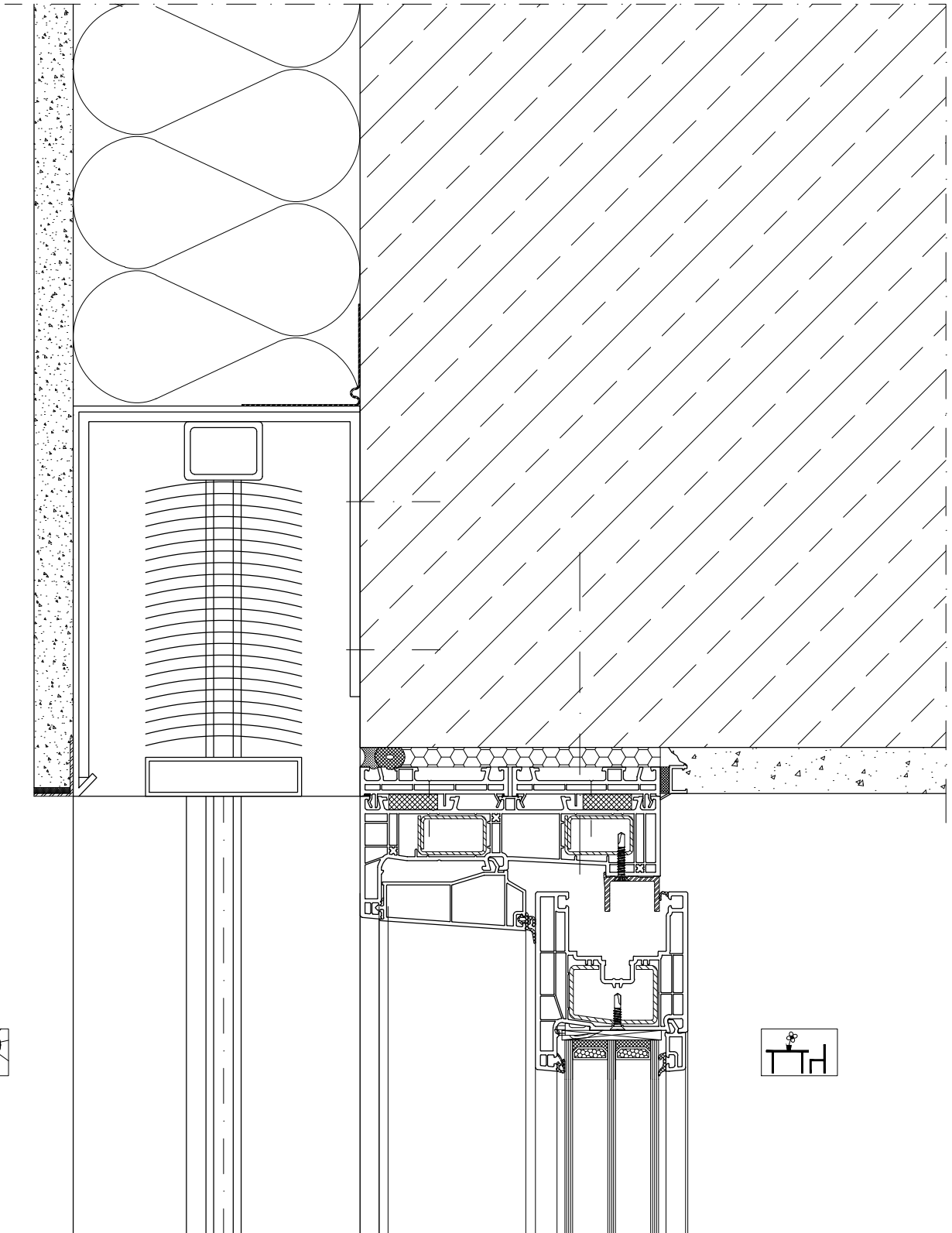
scale

1:2

03_Z_01_smart-slide neo*
May be subject to change and errors
excepted! en

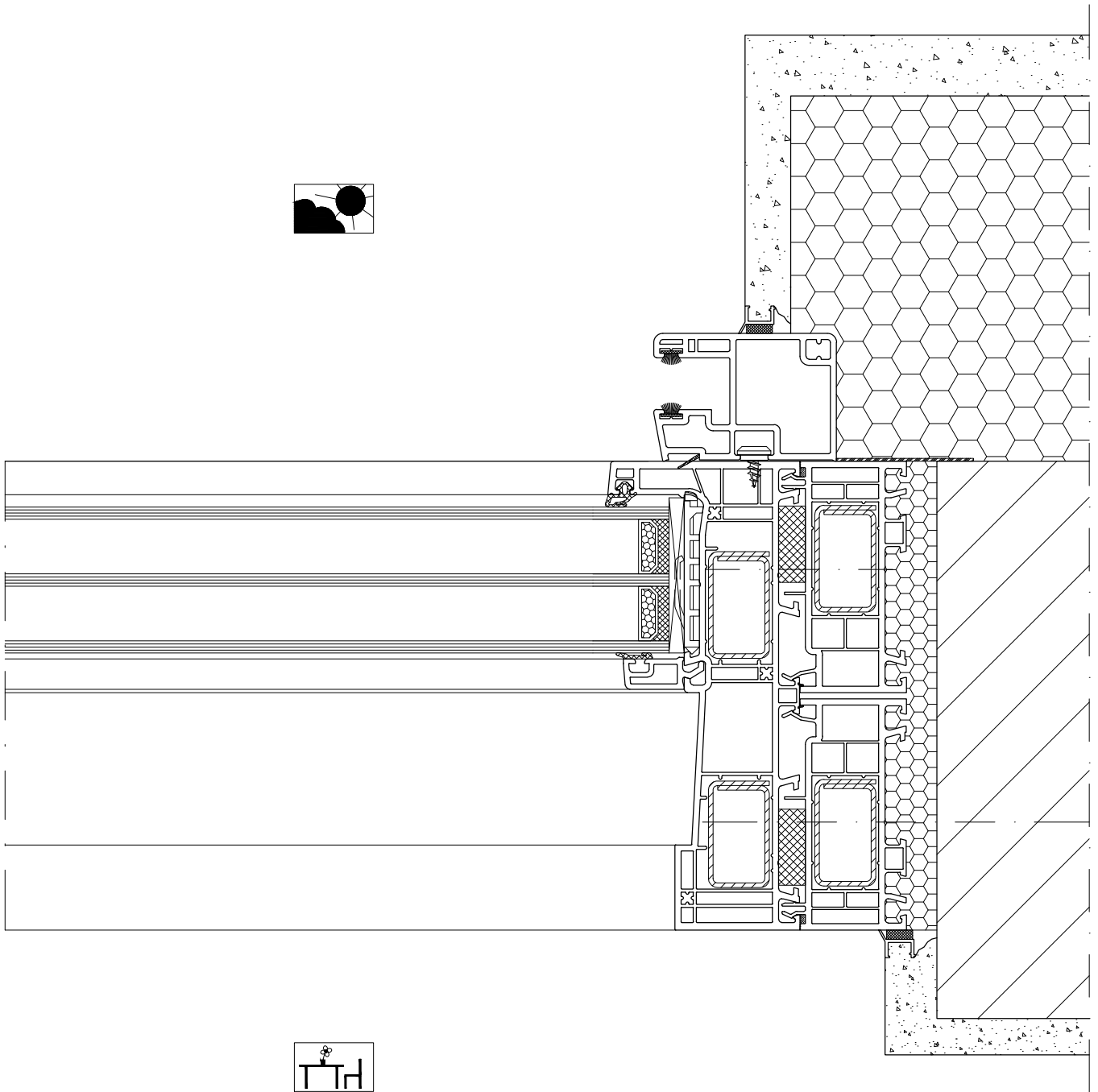


Attention:
Basically, the interior connection to the wall structure shall be (vapour diffusion-) tighter than the exterior.
Inside: vapour barrier (vapour shall diffuse to the exterior) / airtight
Outside: driving rain resistant and vapour permeable (to the exterior)
Installation according to state of the art.
Respect gasket manufacturer's guidelines!



Attention:
Basically, the interior connection to the wall structure shall be (vapour diffusion-) tighter than the exterior.
Inside: vapour barrier (vapour shall diffuse to the exterior) / airtight
Outside: driving rain resistant and vapour permeable (to the exterior)
Installation according to state of the art.
Respect gasket manufacturer's guidelines!

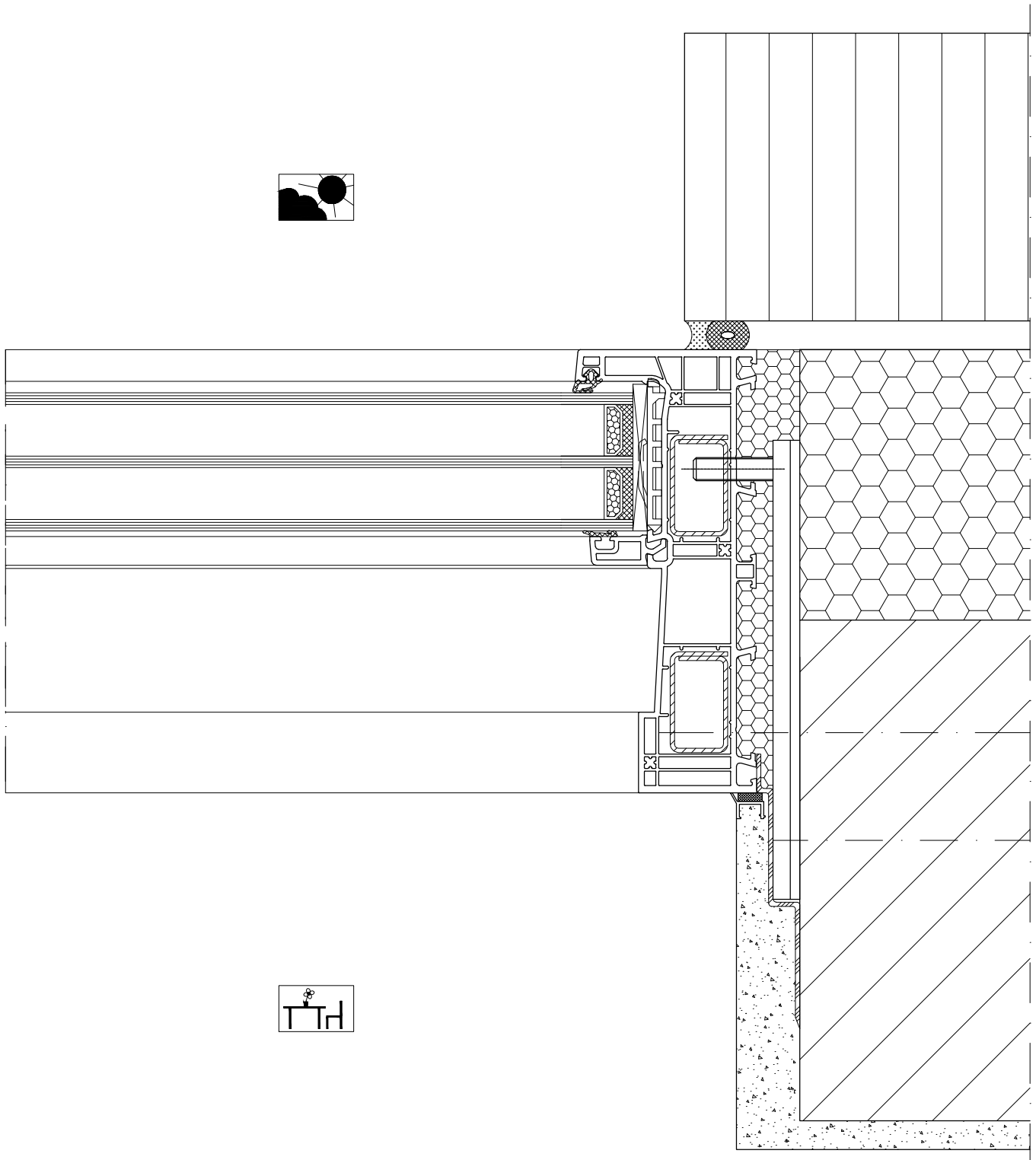
scale 1:~
03_Z_01_smart-slide neo*
May be subject to change and errors
excepted! en



Attention:
Basically, the interior connection to the wall structure shall be (vapour diffusion-) tighter than the exterior.
Inside: vapour barrier (vapour shall diffuse to the exterior) / airtight
Outside: driving rain resistant and vapour permeable (to the exterior)
Installation according to state of the art.
Respect gasket manufacturer's guidelines!

scale

03_Z_01_smart-slide neo*
May be subject to change and errors
excepted! en

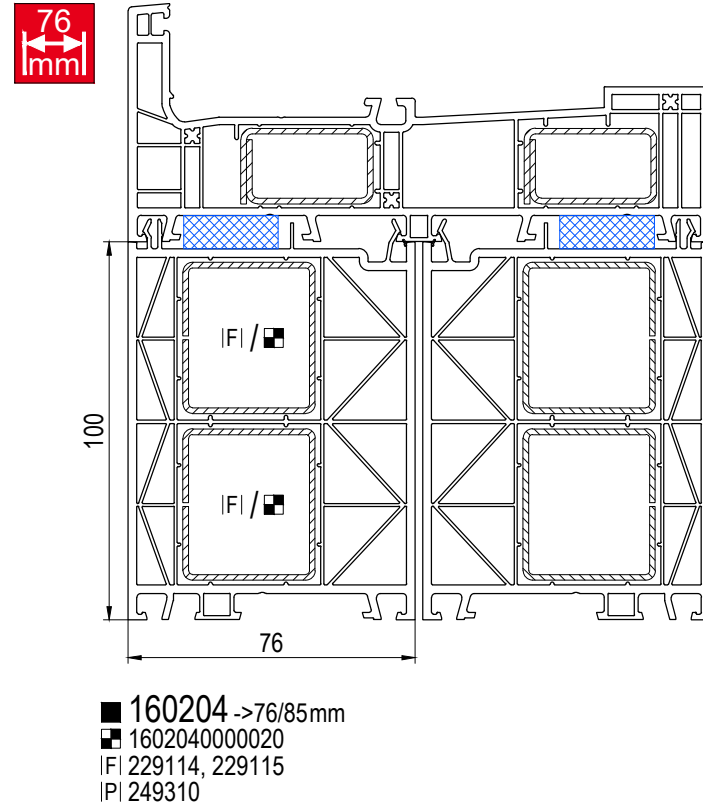
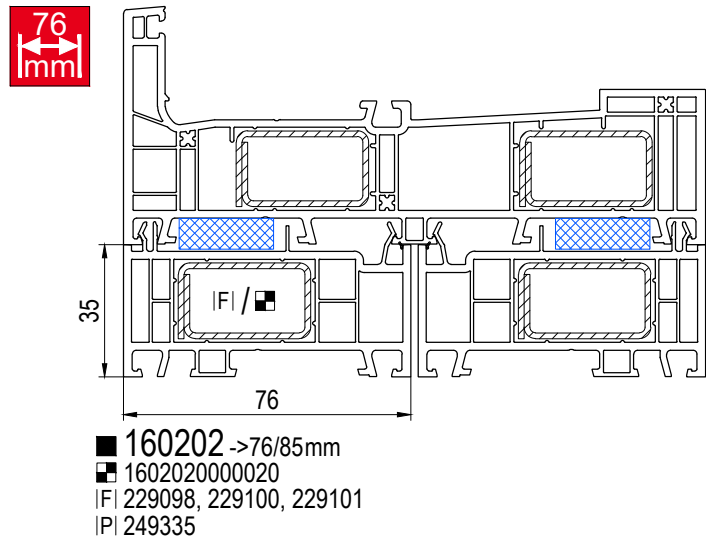
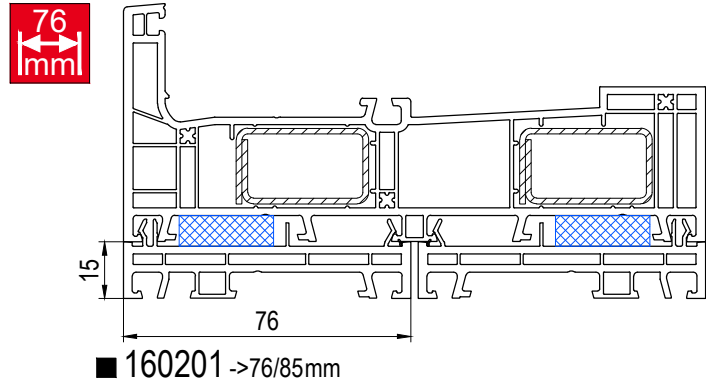


Attention:
Basically, the interior connection to the wall structure shall be (vapour diffusion-) tighter than the exterior.
Inside: vapour barrier (vapour shall diffuse to the exterior) / airtight
Outside: driving rain resistant and vapour permeable (to the exterior)
Installation according to state of the art.
Respect gasket manufacturer's guidelines!

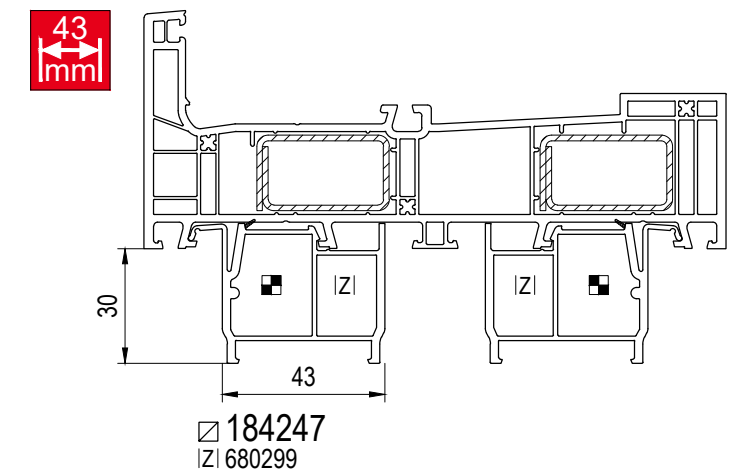
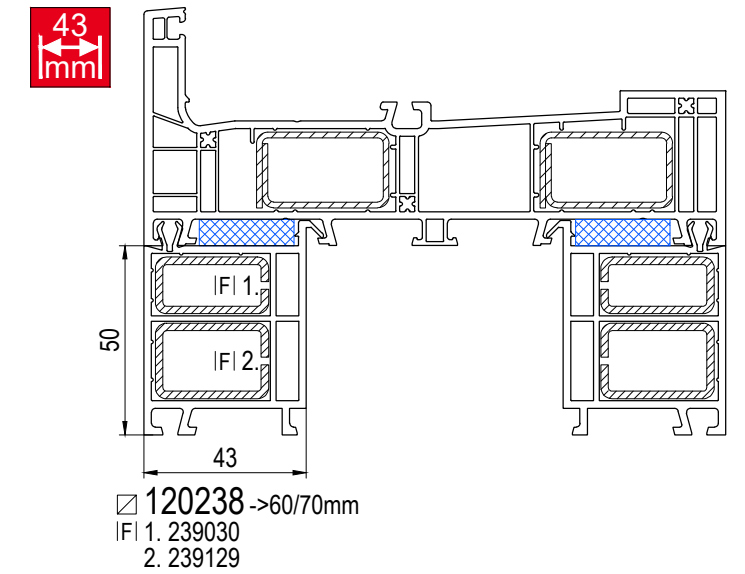
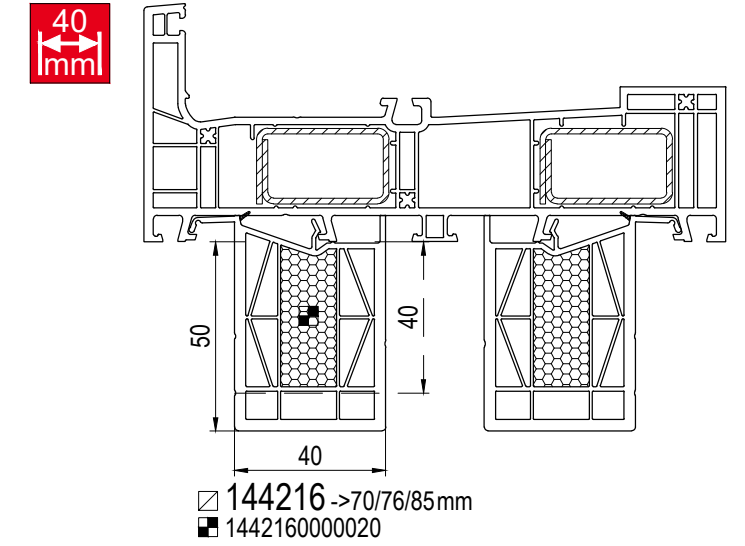
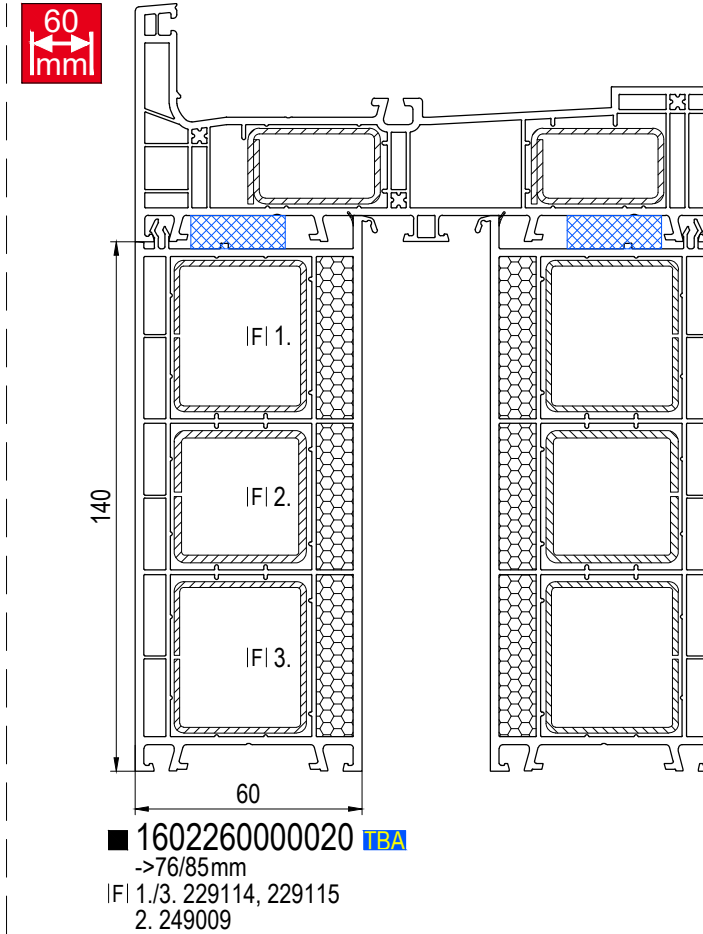
scale

03_Z_01_smart-slide neo*
May be subject to change and errors
excepted! en

Extensions



Sill connectors



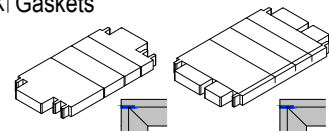
Accessories

-> Couplings see plan:

Accessories

-> Extension profile

IXI Gaskets



742299 bl
->70mm
IXI 644299

782299 bl
->85mm
IXI 644299

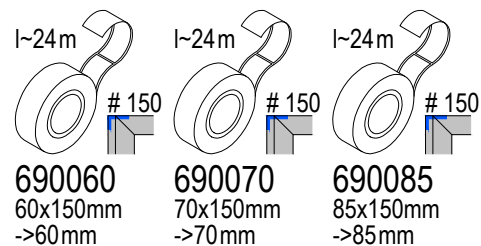
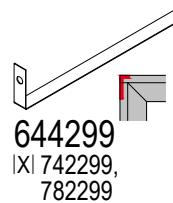
429320 bl
General

420250 wh
421250 br
423250 oc
General

IFI Reinforcements

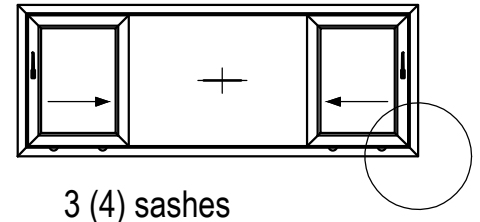
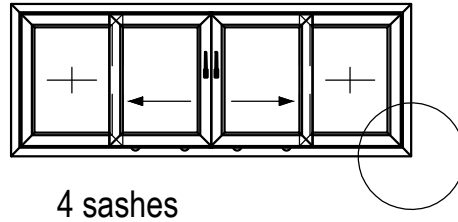
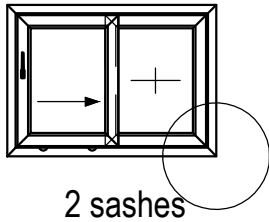
see plan:
Reinforcements

IXI Installation / mounting anchor



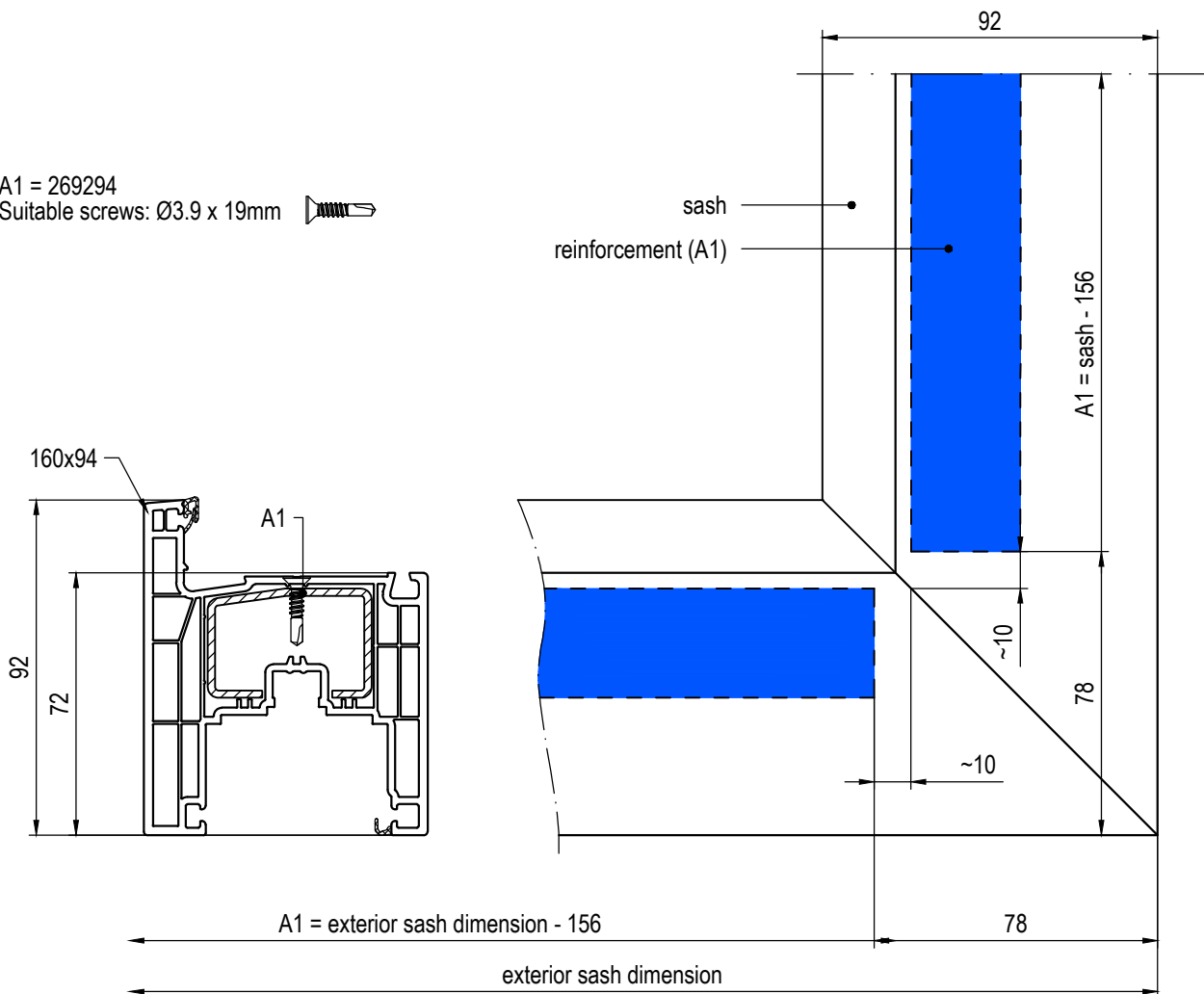
Individual Processing: Accessories Reinforcements

The frame and sash profiles have been developed especially for this system. Brush gaskets all around the sash profiles guarantee impermeability. Bogies in the bottom part of the sliding sashes ensure easy sliding of the sashes. Different sliding window designs can be fabricated. Due to reinforced sash and frame profiles, and special profiles in the central area, the system achieves very good static properties.



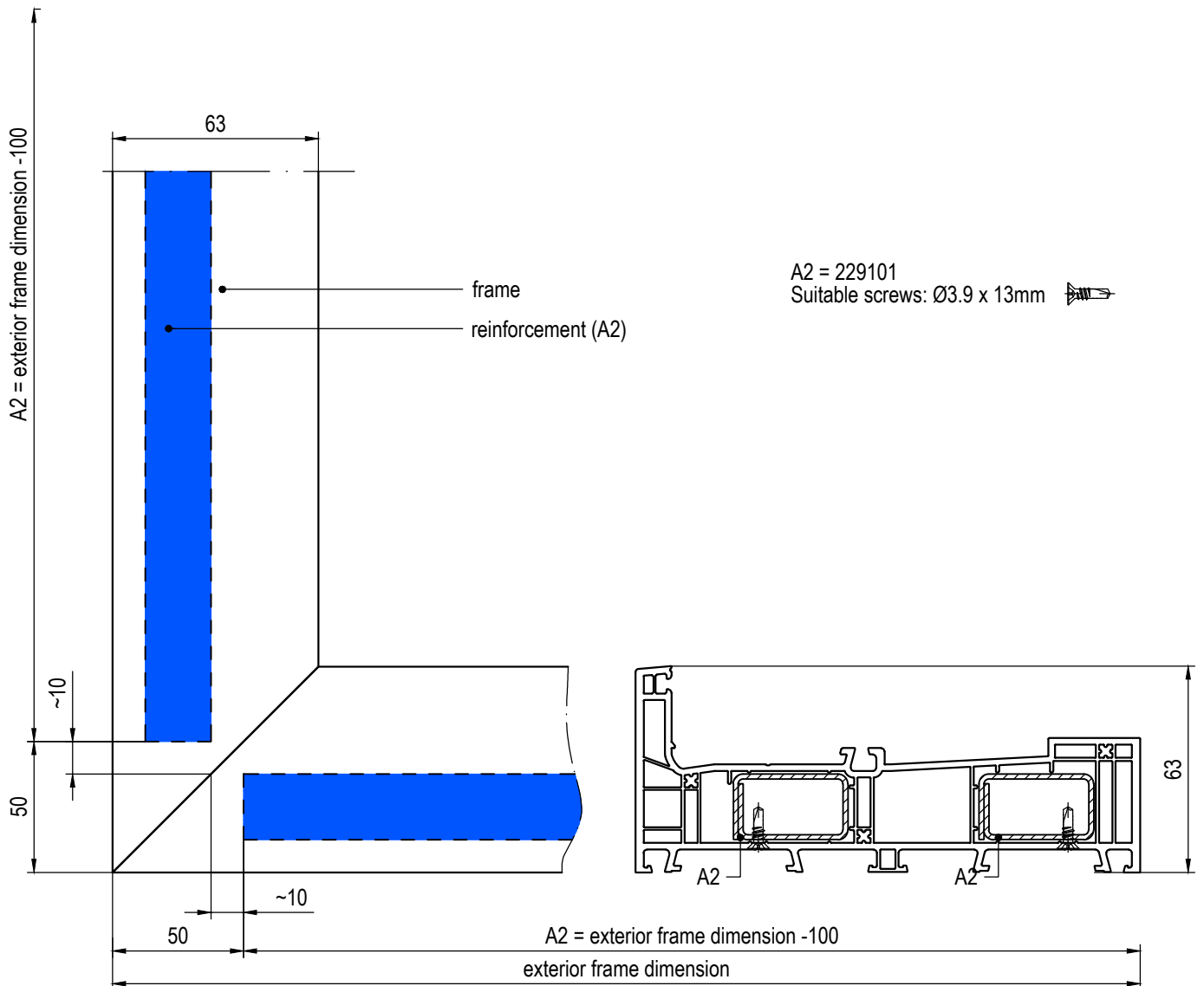
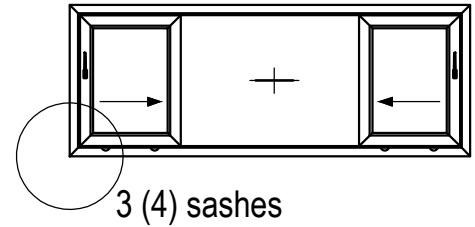
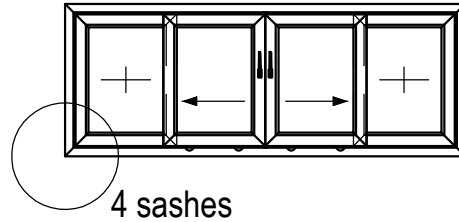
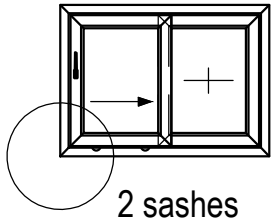
A1 = 269294

Suitable screws: Ø3.9 x 19mm

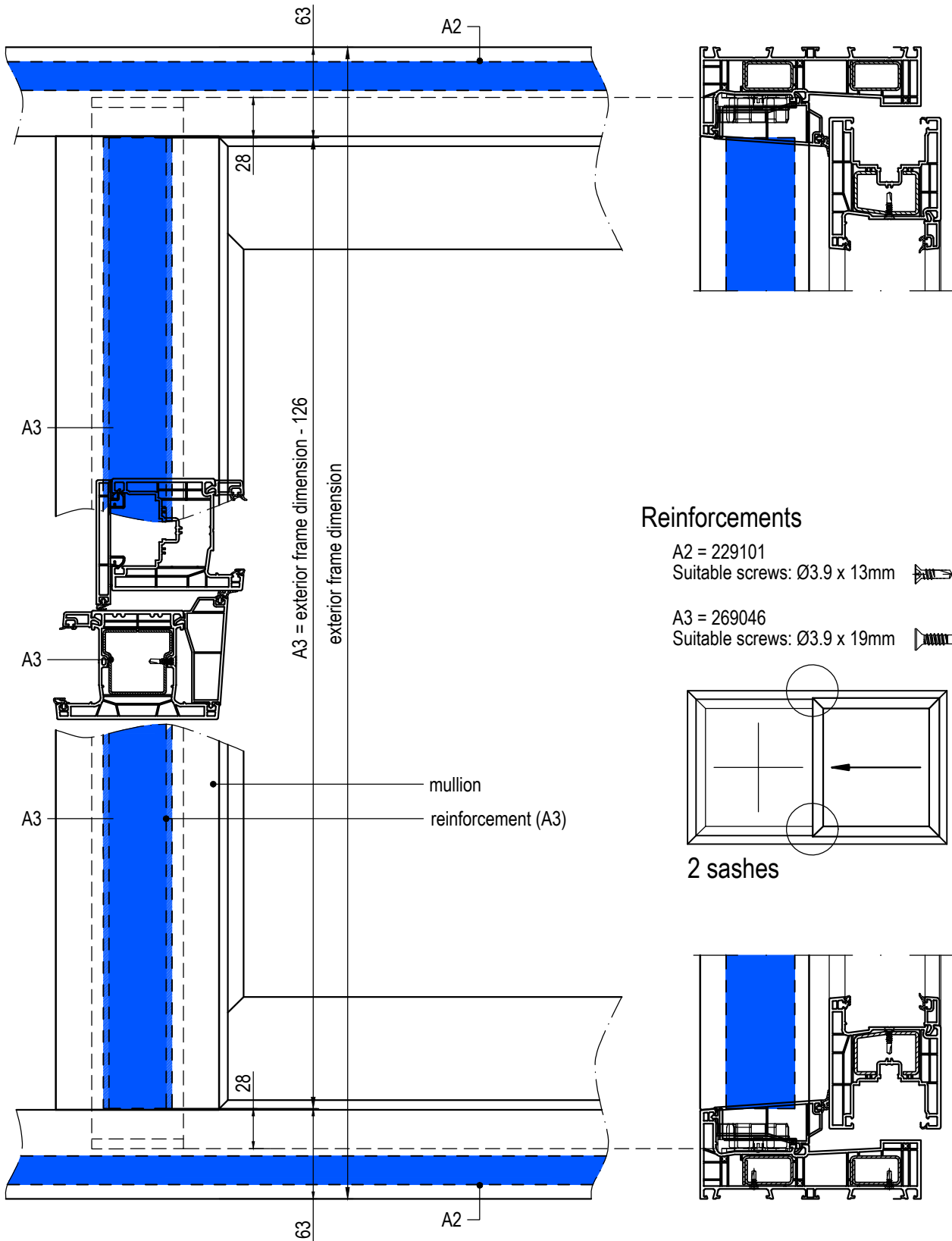


Individual Processing: Accessories Reinforcement deduction measures

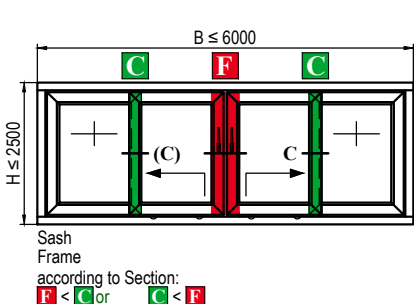
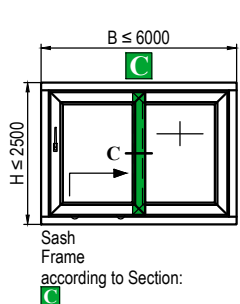
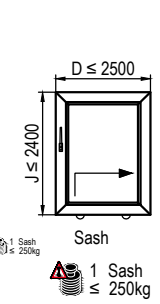
Do not mitre-cut the reinforcements but cut them to length at a 90° angle.
Use screws to fix the reinforcement to the plastic profiles.



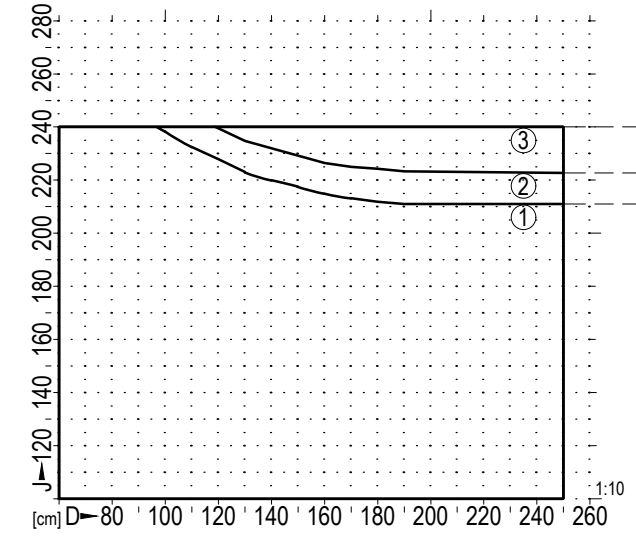
Individual Processing: Accessories



Resistance to wind load EN 12210
Class **B2 C1**

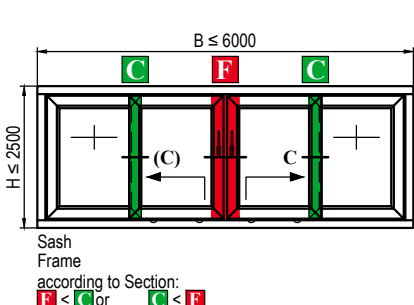
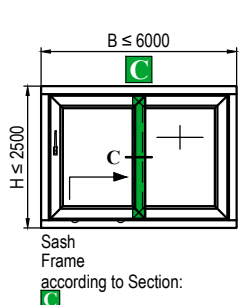
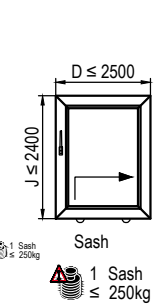


Glass thickness [mm] (t+t₂...) t_z = 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 ...
Theoretical pane weight [kg/m²] ~ 2.5 x t_z = 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 ...

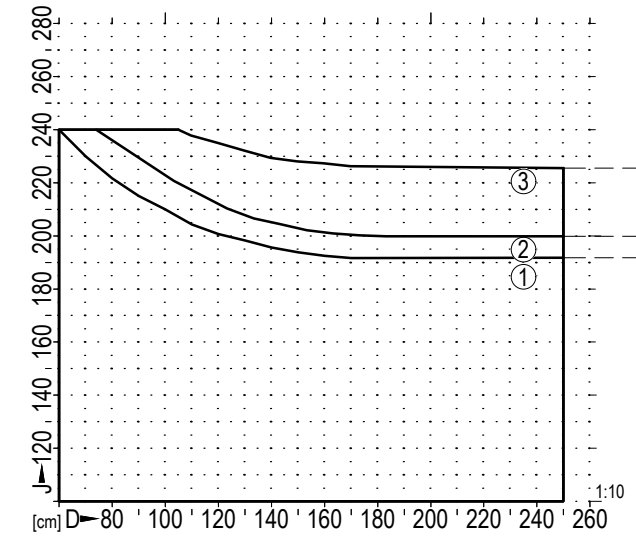


lx [cm4]	Section	IFI Reinforcements
③ 20cm ⁴	C	1x IFI 269043 +1x IFI 269294
② 15.5cm ⁴	C	1x IFI 269045 +1x IFI 269294
② 14.9cm ⁴	C	1x IFI 269046 +1x IFI 269294
① 12.5cm ⁴	C	1x IFI 269041 +1x IFI 269294

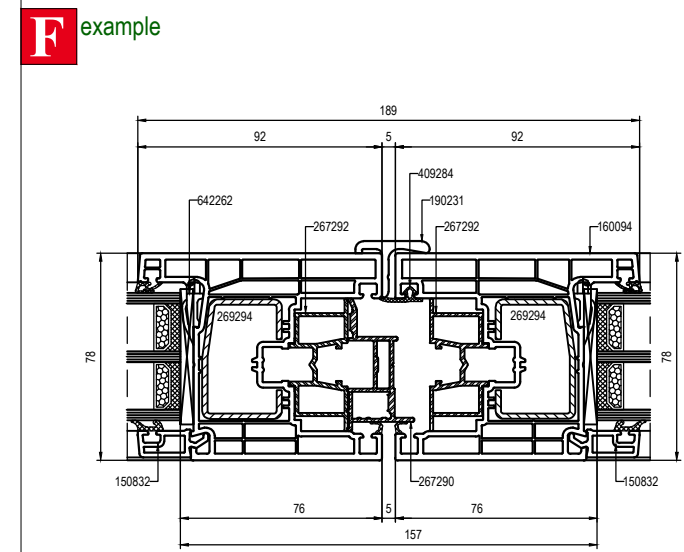
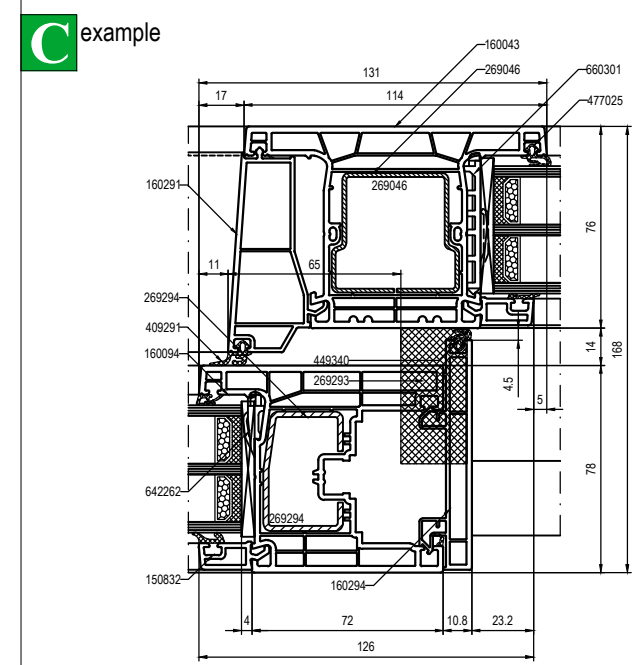
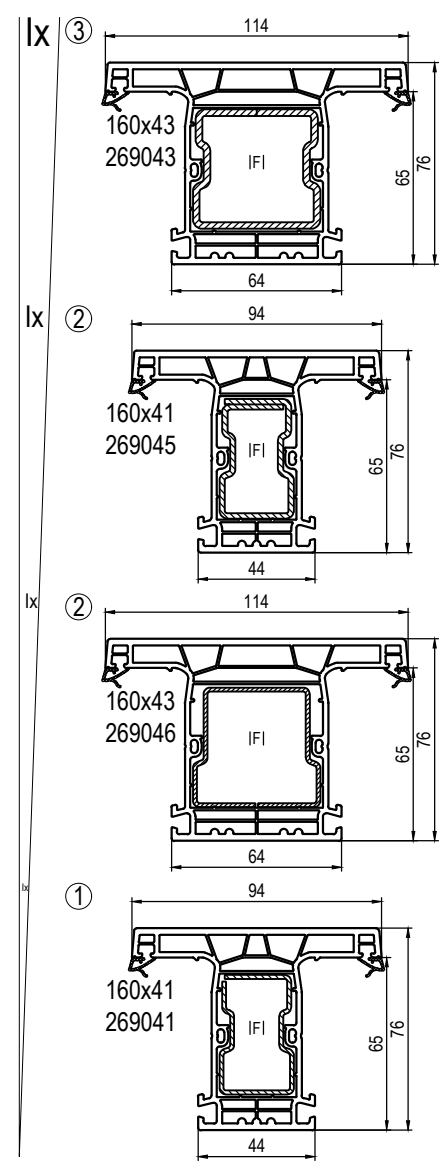
Resistance to wind load EN 12210
Class **B3 C2**



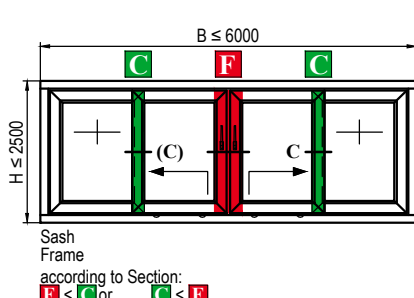
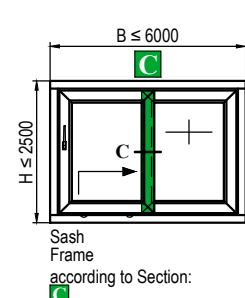
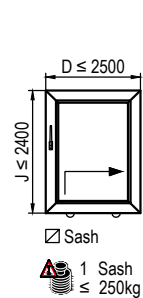
Glass thickness [mm] (t+t₂...) t_z = 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 ...
Theoretical pane weight [kg/m²] ~ 2.5 x t_z = 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 ...



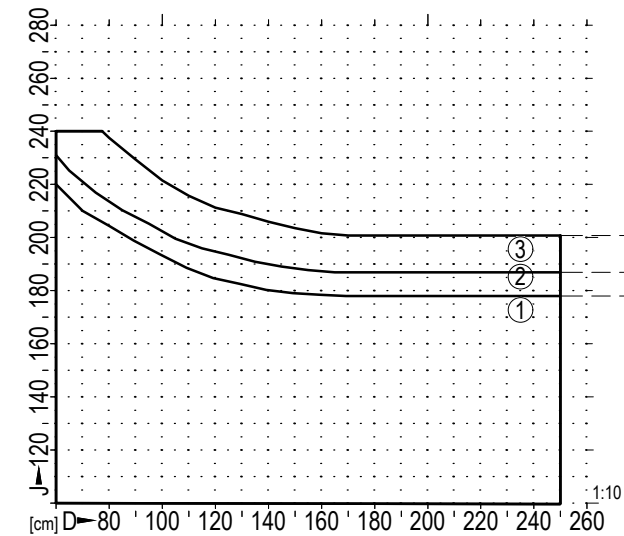
lx [cm4]	Section	IFI Reinforcements
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② 15.5cm ⁴	C	1x IFI 269045 +1x IFI 269294
② 14.9cm ⁴	C	1x IFI 269046 +1x IFI 269294
① 12.5cm ⁴	C	1x IFI 269041 +1x IFI 269294



Resistance to wind load	EN 12210
Class	B4 C3

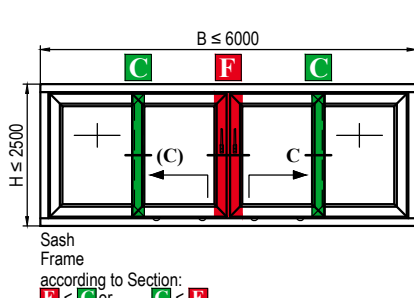
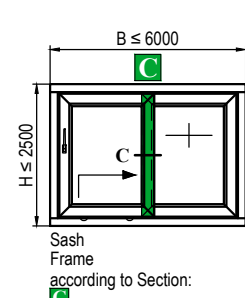
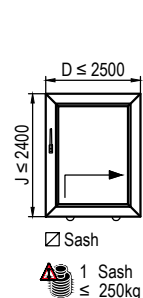


Glass thickness [mm]	(t+t ₂ ...) t ₂ = 4 6 8 10 12 14 16 18 20 22 ...
Theoretical pane weight [kg/m ²]	~ 2.5 x t ₂ = 10 15 20 25 30 35 40 45 50 55 ...

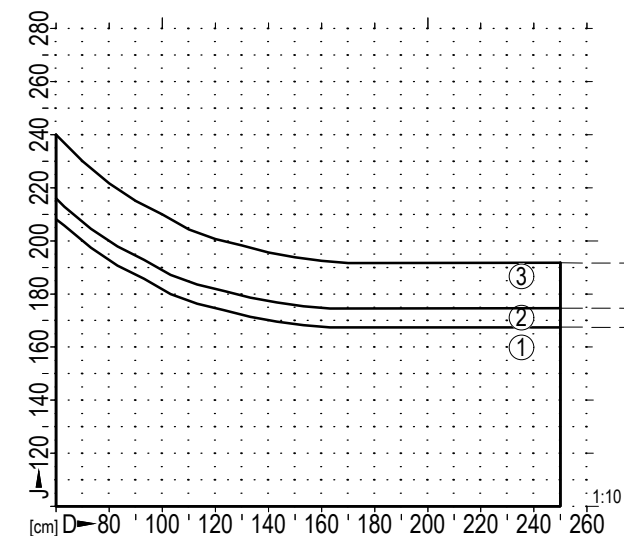


lx [cm4]	Section	IFI Reinforcements
③ 20cm ⁴	C	1x IFI 269043 +1x IFI 269294
② 15.5cm ⁴	C	1x IFI 269045 +1x IFI 269294
② 14.9cm ⁴	C	1x IFI 269046 +1x IFI 269294
① 12.5cm ⁴	C	1x IFI 269041 +1x IFI 269294

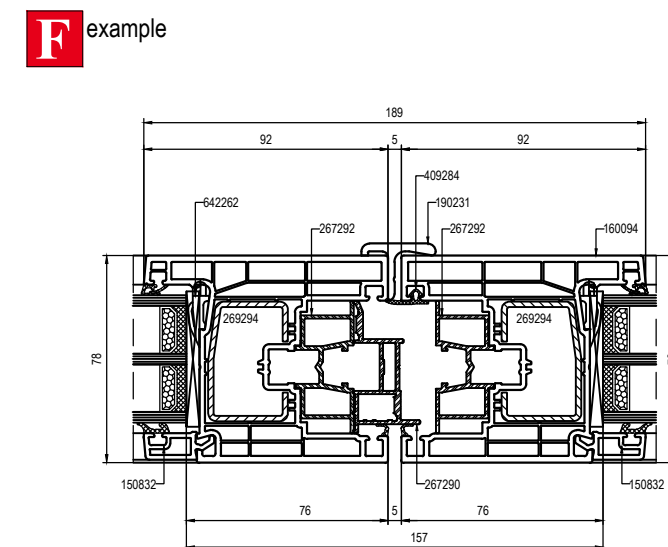
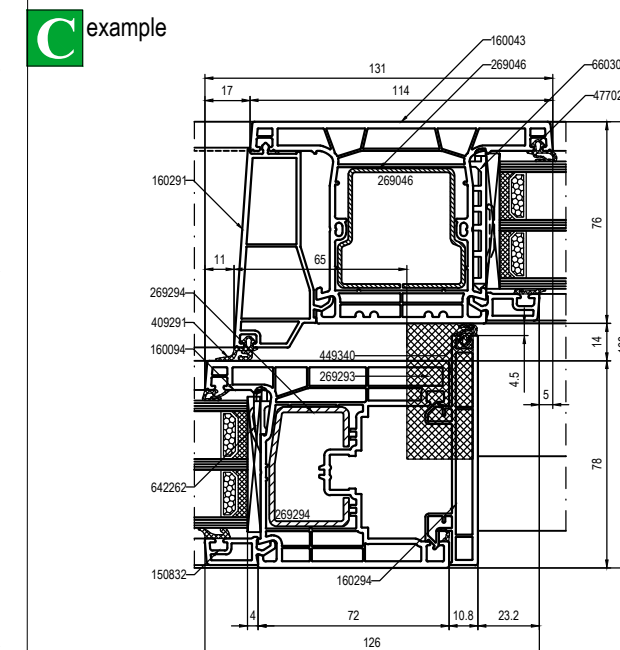
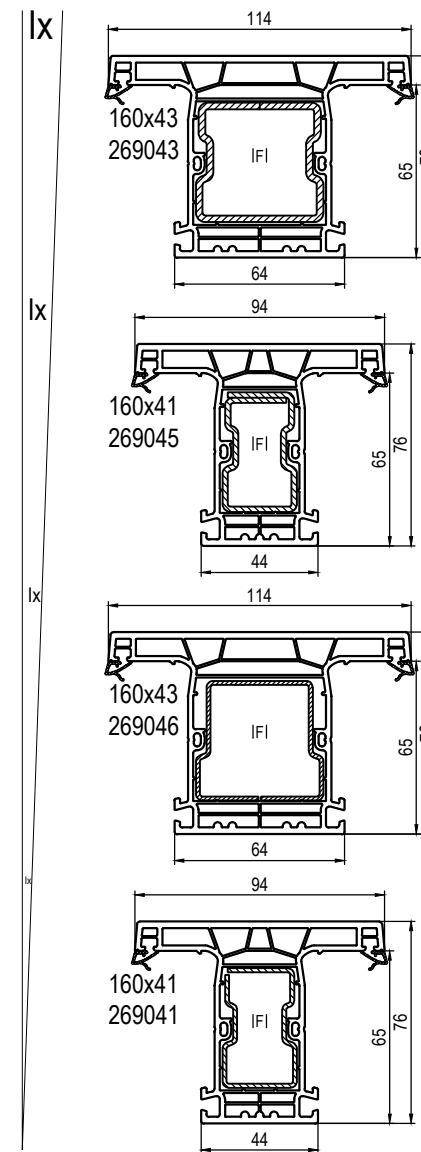
Resistance to wind load	EN 12210
Class	B5 C4



Glazing thickness [mm]	d = ... 20 22 24 26 28 30 32 34 36 ...
Theoretical pane weight [kg/m ²]	~ 2.5 x d = ... 50 55 60 65 70 75 80 85 90 ...



lx [cm4]	Section	IFI Reinforcements
③ 20cm ⁴	C	1x IFI 269043 +1x IFI 269294
② 15.5cm ⁴	C	1x IFI 269045 +1x IFI 269294
② 14.9cm ⁴	C	1x IFI 269046 +1x IFI 269294
① 12.5cm ⁴	C	1x IFI 269041 +1x IFI 269294



chapter	09 Individual Handling	page	02
09C		Resistance to wind load	EN 12210
		Class	B4 C3
		Class	B5 C4

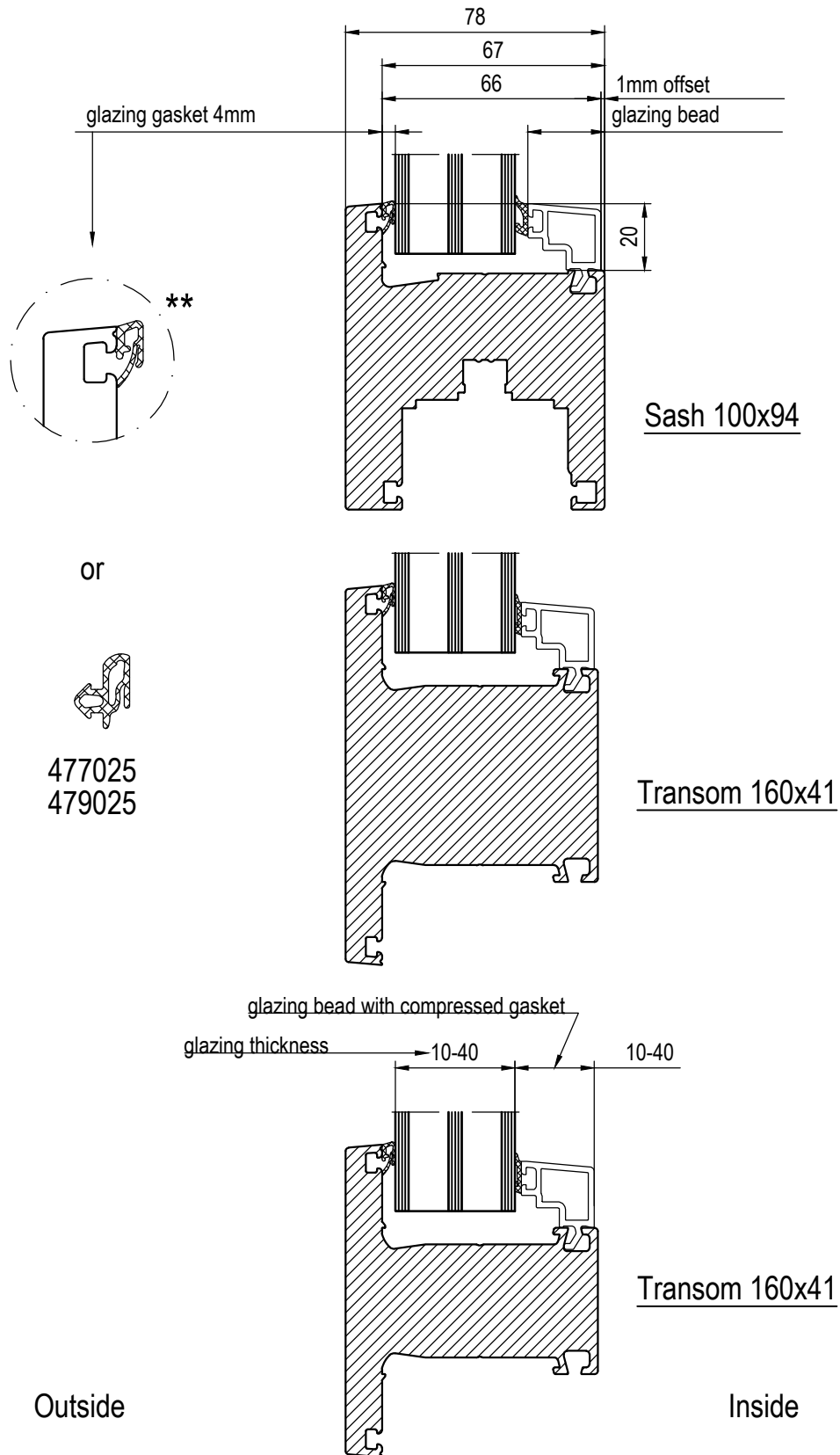


www.aluplast.net

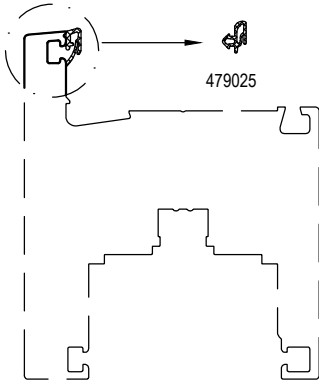
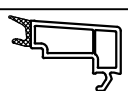
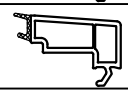
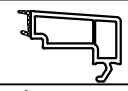
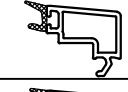
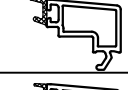
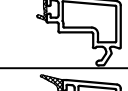
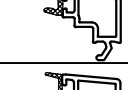
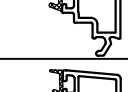
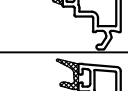
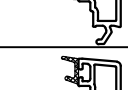
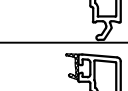

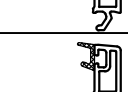
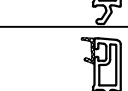


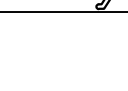
smart-slide neo

Glazing beads in the sash 100x91 / transom 160x41 / 160x41

Note:
Glazing rebate dimensions and glazing beads as in the IDEAL energeto neo system.

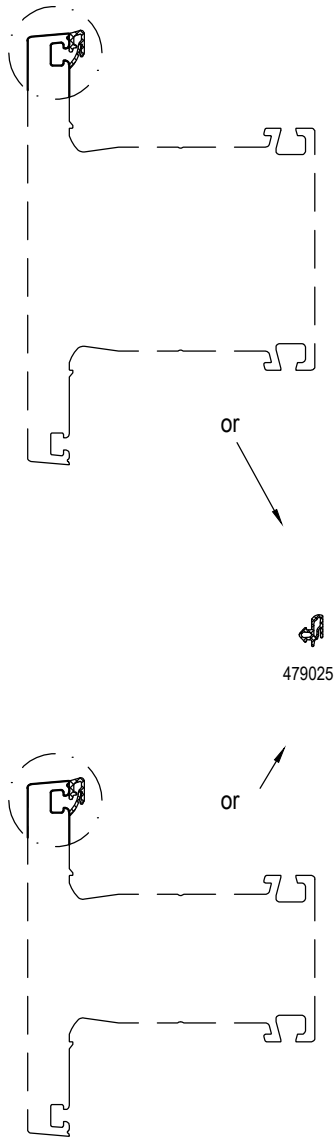



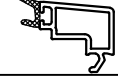
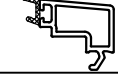
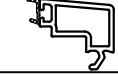










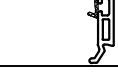


The glazing beads on the fixframe should be tempered and glued if the risk of high temperatures and high UV-radiation could be expected.

glazing gasket in sash outside	glazing thickness in [mm]	glazing bead with compressed gasket inside	design
	22	 150736 bl 150766 pw	Qube-line
	24	 150836 bl 150866 pw	Qube-line
	26	 150636 bl 150666 pw	Qube-line
	28	 150735 bl 150765 pw	Qube-line
	30	 150835 bl 150865 pw	Qube-line
	32	 150635 bl 150665 pw	Qube-line
	34	 150734 bl 150764 pw	Qube-line
	36	 150834 bl 150864 pw	Qube-line
	38	 150634 bl 150664 pw	Qube-line
	40	 150733 bl 150763 pw	Qube-line
	42	 150833 bl 150863 pw	Qube-line
	44	 150633 bl 150663 pw	Qube-line
	46	 150732 bl 150762 pw	Qube-line
	48	 150832 bl 150862 pw	Qube-line
	50	 150632 bl 150662 pw	Qube-line
	52	 150831 bl 150861 pw	Qube-line
54*	 150631 bl 150661 pw	Qube-line	

bl = black gasket
pw = papyrus-white gasket

*Attention! This glass thickness is only possible in sash, order max. 52 mm for fixed glass.

glazing gasket in sash outside	glazing thickness in [mm]	glazing bead with compressed gasket inside	design
	20*	 150736 bl 150766 pw	Qube-line
	22	 150836 bl 150866 pw	Qube-line
	24	 150636 bl 150666 pw	Qube-line
	26	 150735 bl 150765 pw	Qube-line
	28	 150835 bl 150865 pw	Qube-line
	30	 150635 bl 150665 pw	Qube-line
	32	 150734 bl 150764 pw	Qube-line
	34	 150834 bl 150864 pw	Qube-line
	36	 150634 bl 150664 pw	Qube-line
	38	 150733 bl 150763 pw	Qube-line
	40	 150833 bl 150863 pw	Qube-line
	42	 150633 bl 150663 pw	Qube-line
	44	 150732 bl 150762 pw	Qube-line
	46	 150832 bl 150862 pw	Qube-line
	48	 150632 bl 150662 pw	Qube-line
	50	 150831 bl 150861 pw	Qube-line
52	 150631 bl 150661 pw	Qube-line	

bl = black gasket
pw = papyrus-white gasket

*Attention! For this glass thickness there is no Cube-line glazing bead for sashes!

09 H Mechanical Connections

Note: Choose the compatible connector and the corresponding drilling jig or drilling pattern from chapter 02 D (Main Profiles) Mullions / Transoms.

09 H 1 Mechanical Mullion and Transom Connections

Mullion and transom profiles are counter-milled (unless they get welded with the other profiles) and screwed to the frame / sash profile or mullion / transom profile with special zinc-diecast connectors.

Use all the screws shown in the assembly drawings for all connection.

09 H 2 Cleaning and Care after the installation

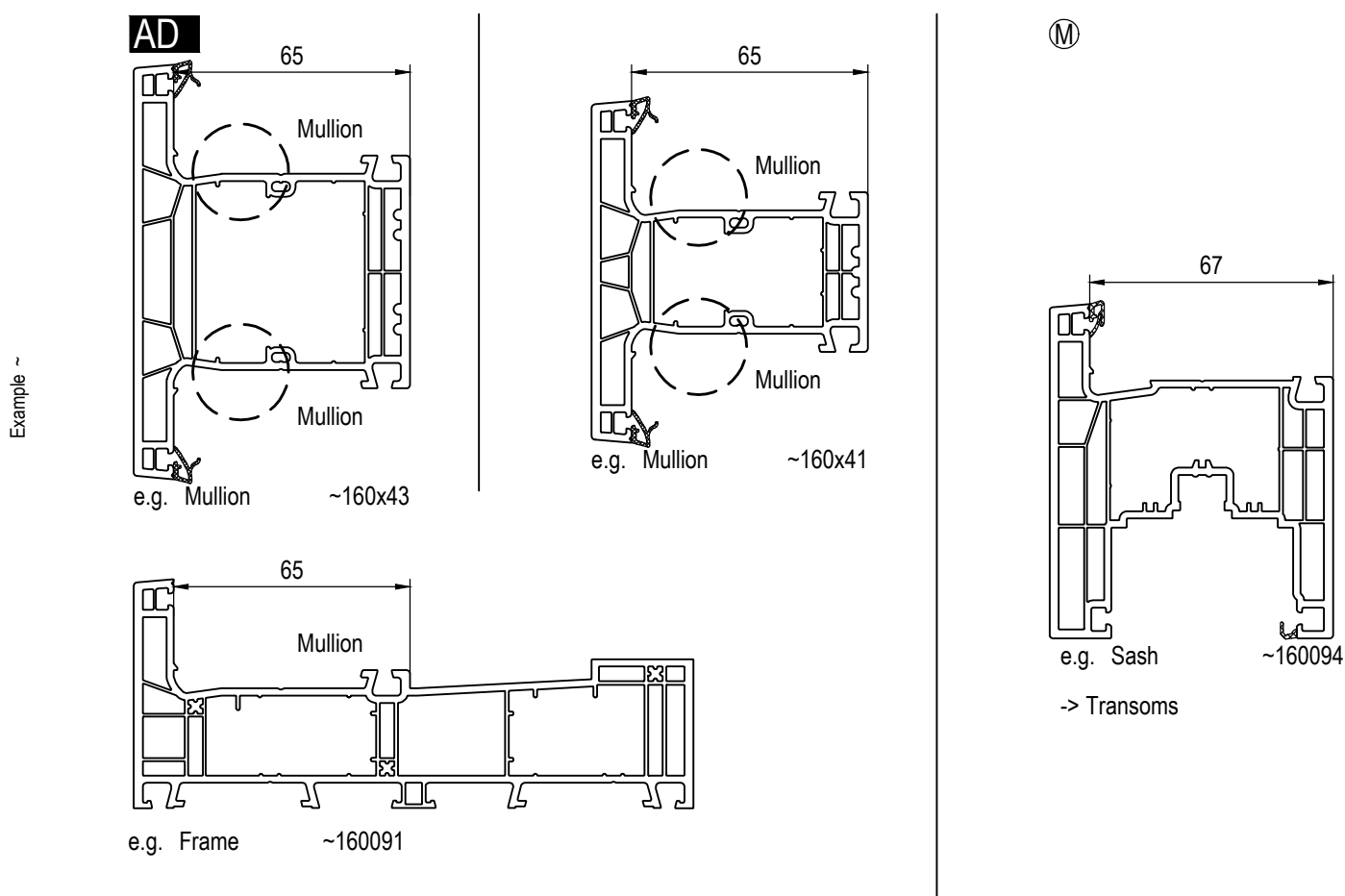
Refer to Chapter 10 R Cleaning, 10 S Maintenance, and 10 T Ventilation.

It is normal that windows get soiled during the window manufacturing process, for example when installing the hardware (grease) or due to ancillary marks (do not use felt markers as they often leave stubborn stains and therefore are not recommended for marking). Plastic window profiles can be cleaned easily using water and commercially-available mild cleansing agents (e.g. washing-up liquid, curd soap, soft soap). Solvents or abrasive cleansing agents must not be used.

We recommend using the aluplast PVC window cleaner, item number 699919 (for laminated profiles: 699920). The cleansing agent has been developed especially for surfaces of white colour or wood texture design. It keeps the recently cleaned profiles or windows clean for a considerably longer time. The cleansing agent is suitable only for profile surfaces. Do not apply on other surfaces.

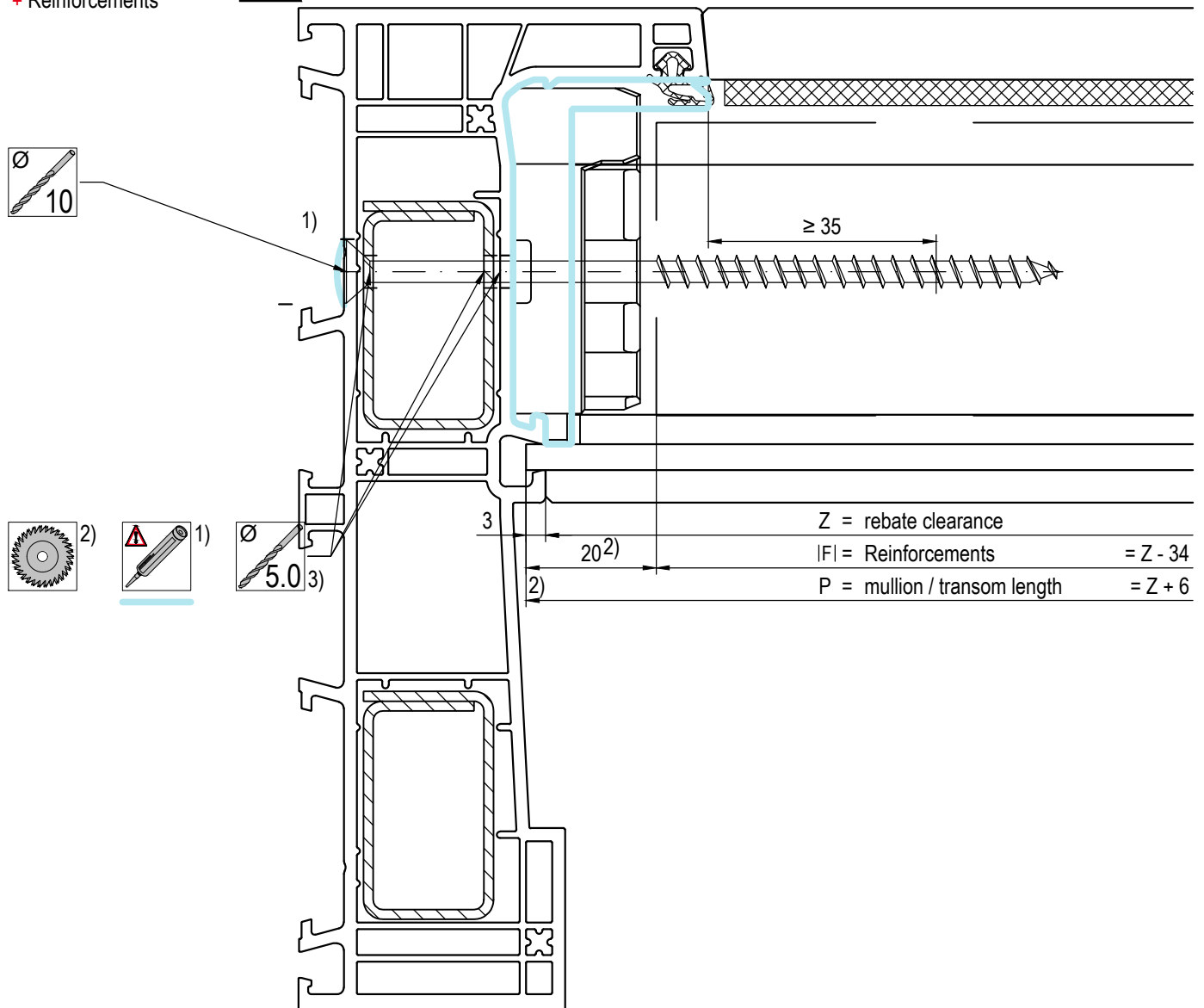
Apply the cleansing agent with a dry, clean cloth. Remove heavy soiling applying soft pressure. Wipe the profile surfaces with a damp cloth. Shake the bottle well before using the cleansing agent.

Profiles with wood texture design are resistant to corrosive agents as hard plaster, chlorinated lime and cement. Do not treat these profiles with alcohol, nitrocellulose lacquer, lacquer diluents, and organic solvents.



example
160091 Frame
+ Reinforcements

example
AD

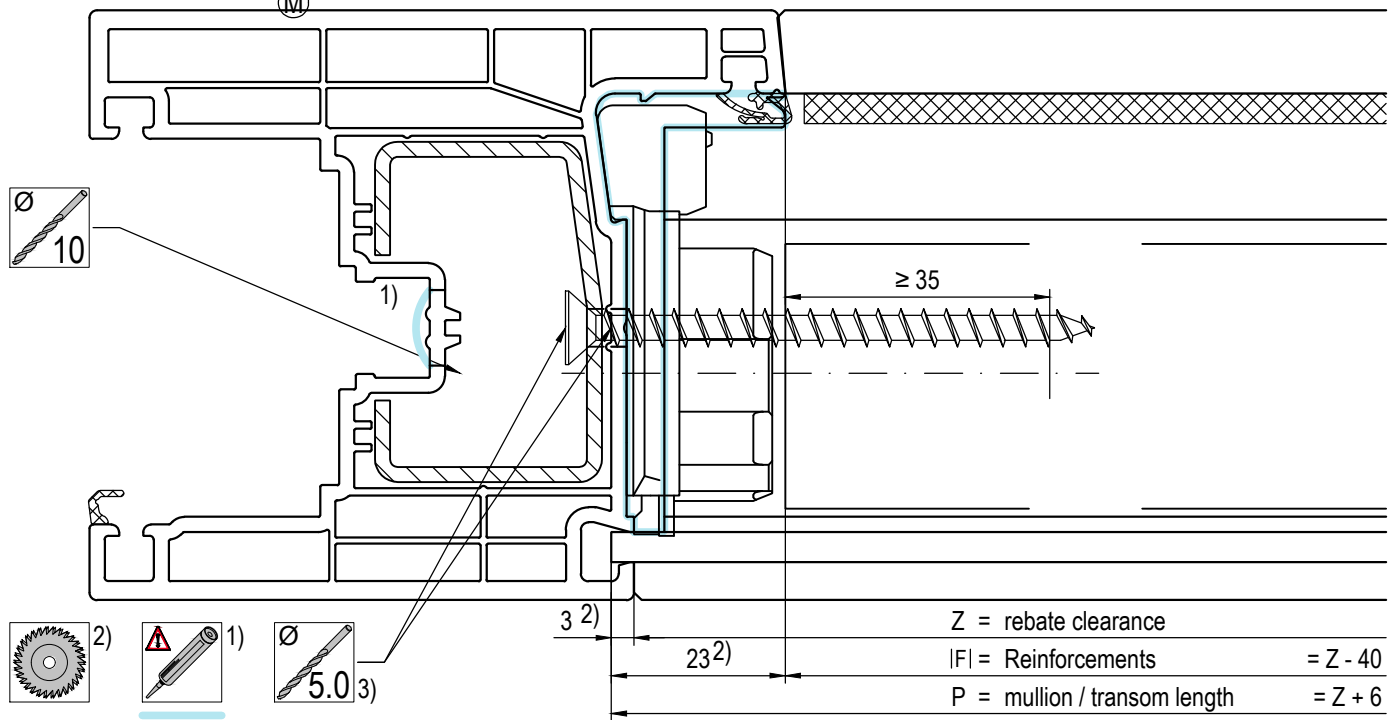


Mullion on frame/mullion: The screw shall project the profile edge by approximately 35mm. Drill a $\varnothing 5\text{mm}$ hole through the reinforcement. In the case of reinforced frames and mullions we recommended drilling a $\varnothing 10\text{mm}$ blind hole (depends on screw head or in the case of connectors with sticks).

- 1) gasket all drill holes (or screws / washers) after screwing!
- 2) Milling patterns available only upon request. Contact the application engineering department (AWT).
- 3) Bore up to $\varnothing 6\text{mm}$ possible with machining BAZ.

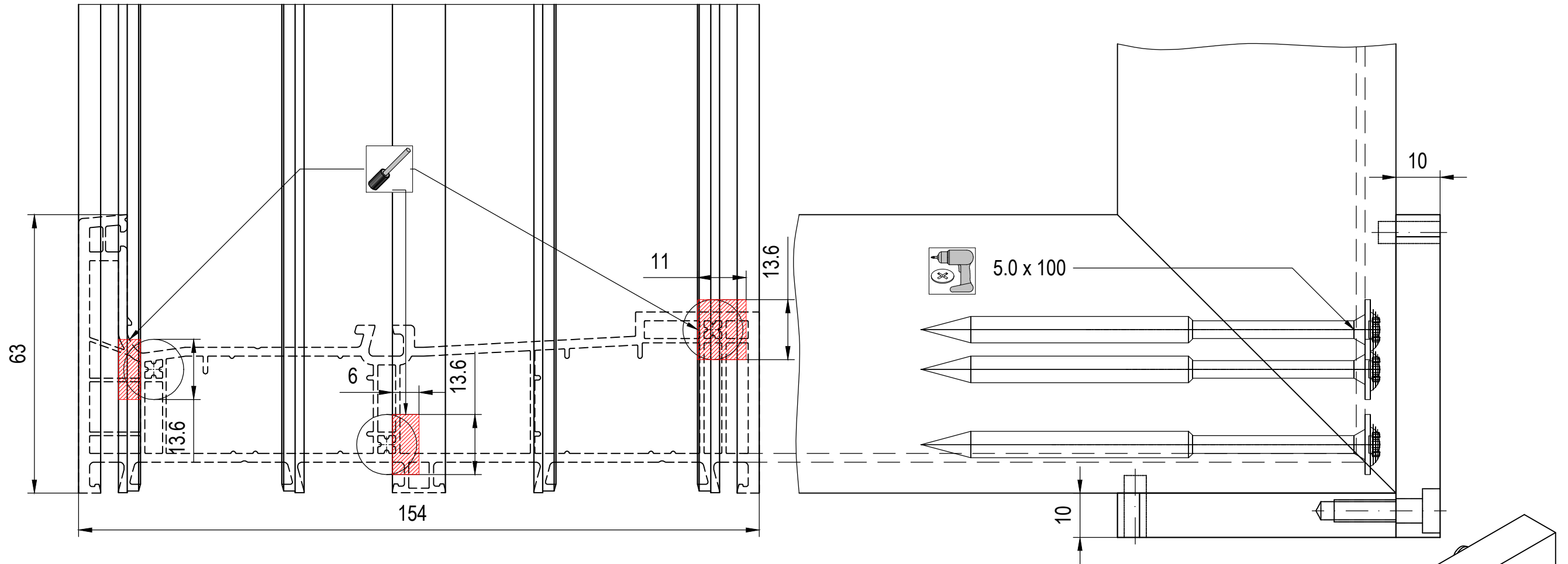
example
160094 Sash

example
(M)

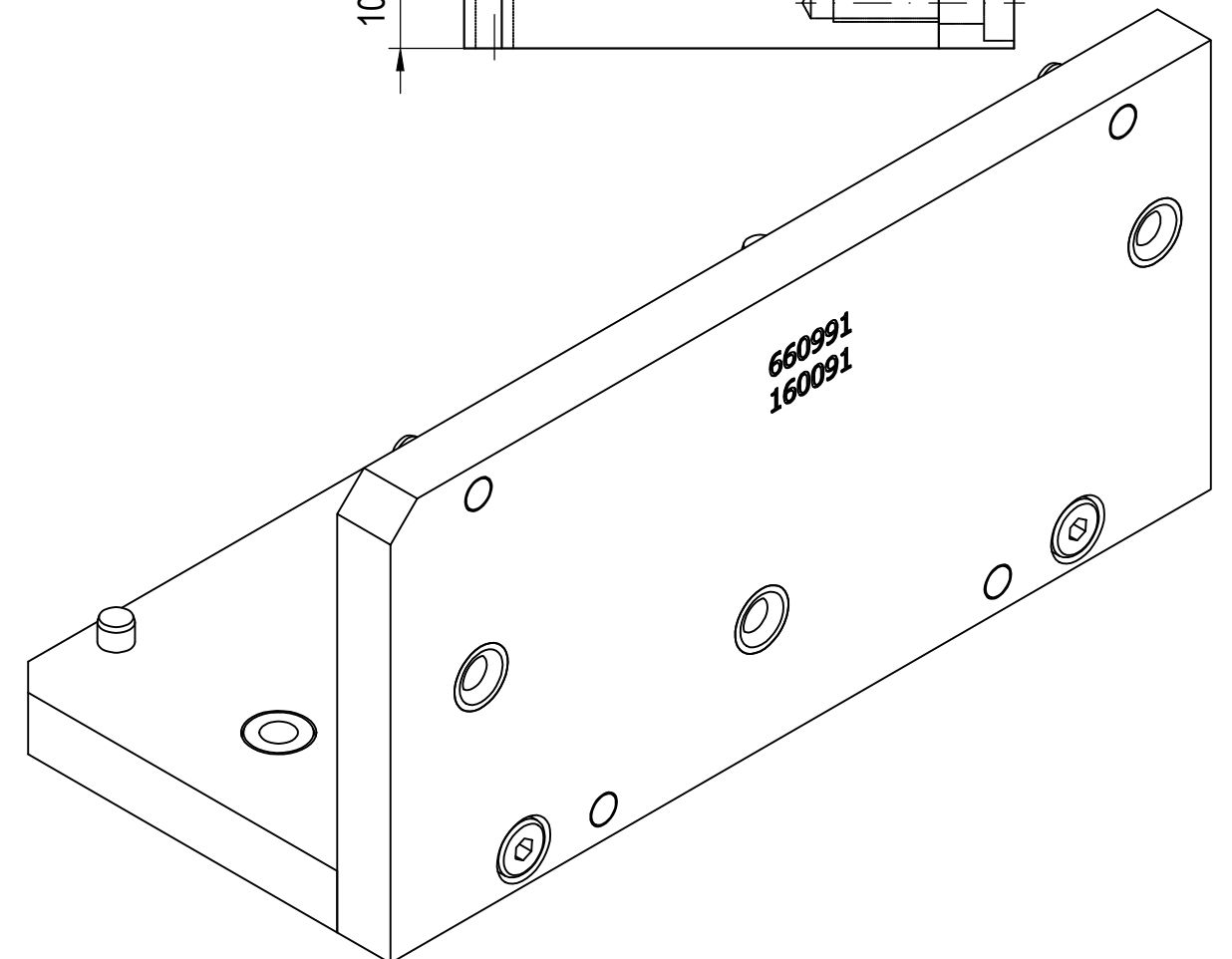
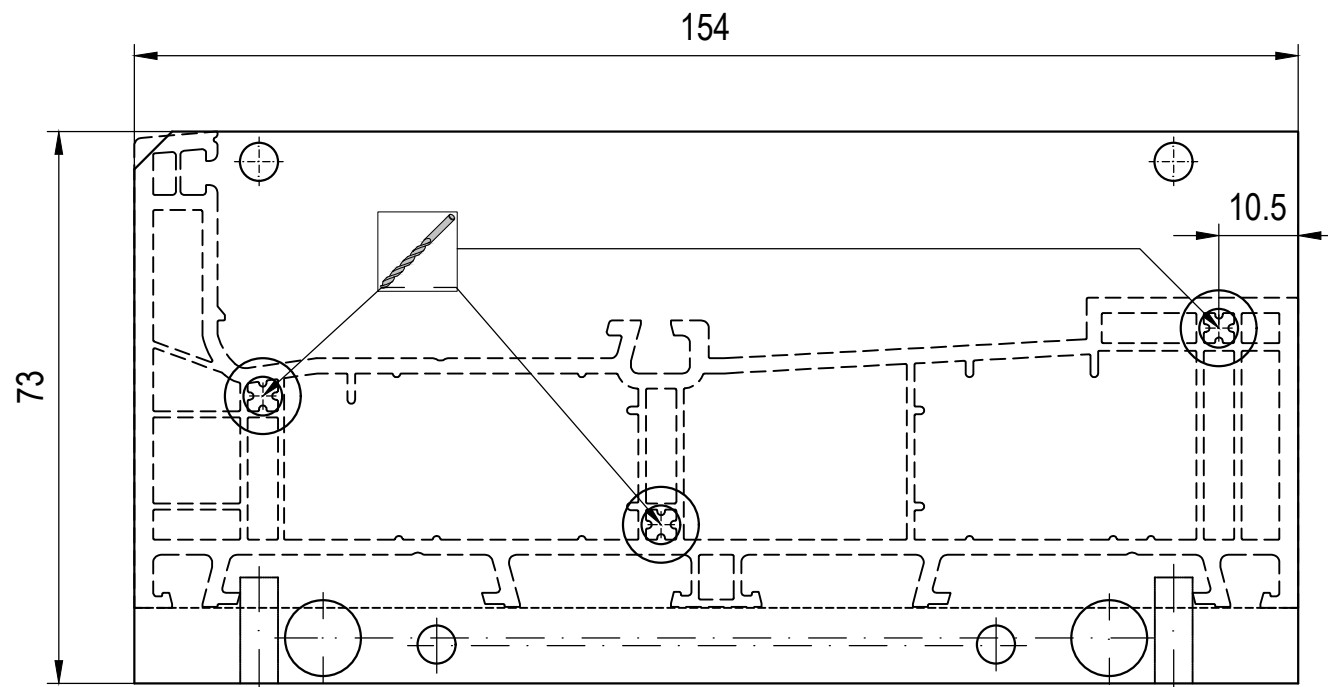


Transom on sash/transom: The screw shall project the profile edge by approximately 35mm. In the case of reinforced sashes and transoms it is recommended to drill a $\varnothing 10$ mm blind hole (depends on screw head or in the case of connectors with sticks) and a $\varnothing 5$ mm hole through the steel. (comparable with drilling in the frame).

- 1) gasket all drill holes (or screws / washers) after screwing!
- 2) Milling patterns available only upon request. Contact the application engineering department (AWT).
- 3) Bore up to $\varnothing 6$ mm possible with machining BAZ.

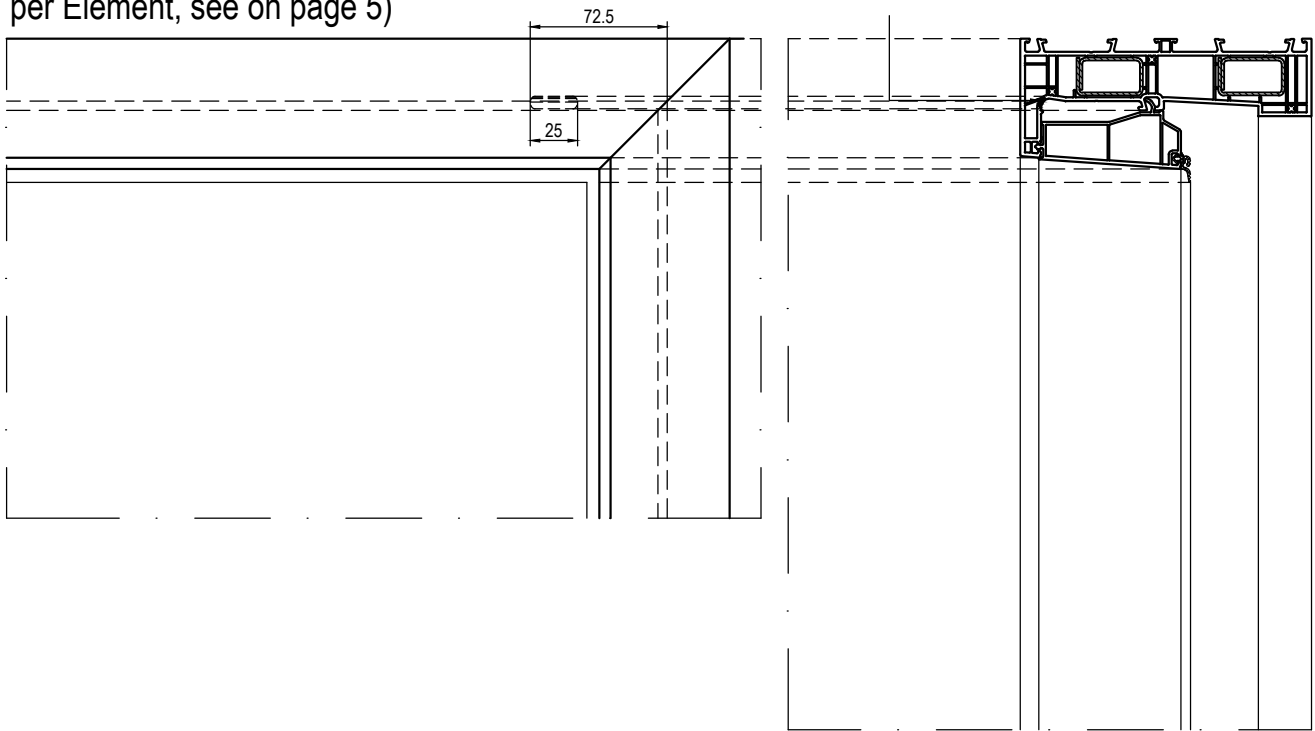


Attention! From 3.0 m width also this mechanical connection necessary. Welded connection is always necessary!

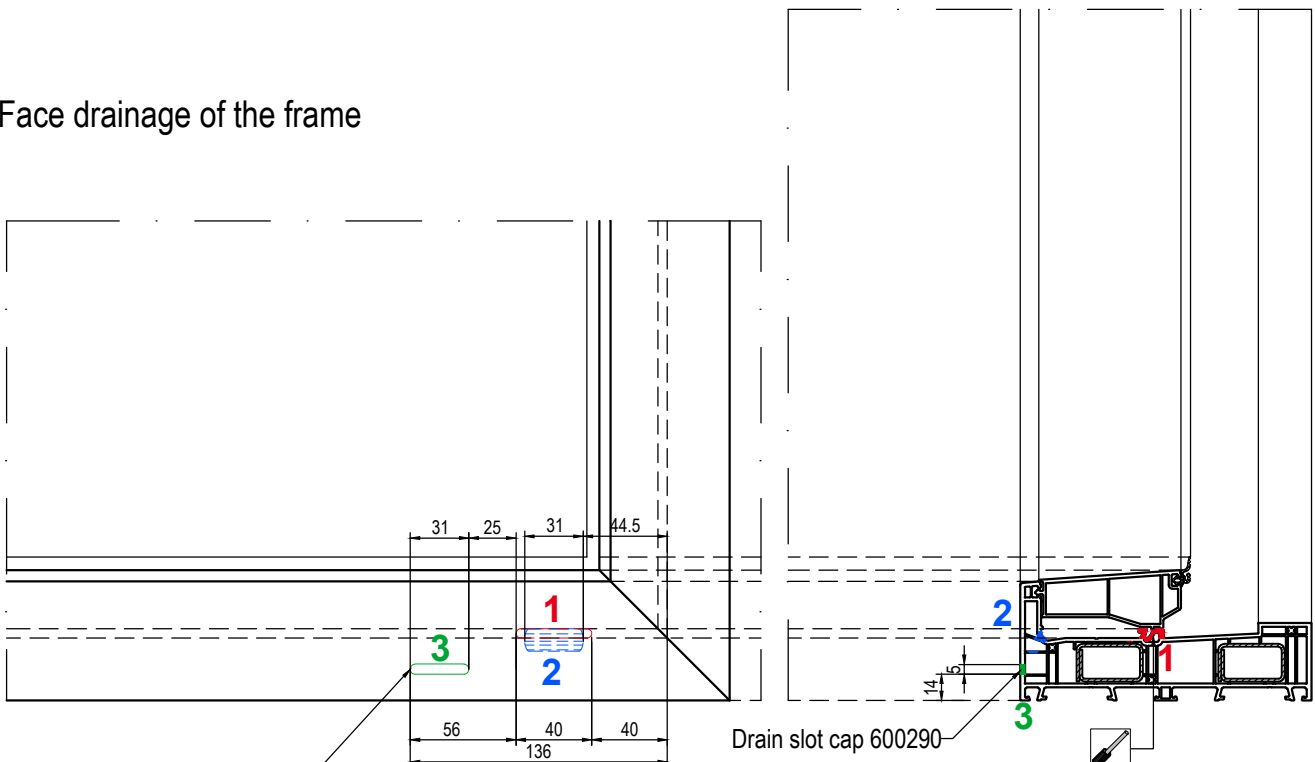


Air equalization of the frame
(only 2 drainage openings necessary on frame
per Element, see on page 5)

Standard:
Milled opening
Ø5mm x 25mm



Face drainage of the frame



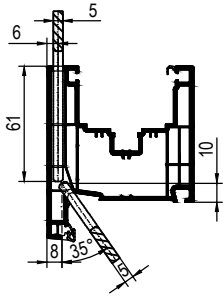
Standard:
Milled opening to the front
Ø5mm x 31mm

Standard:
Drainage opening of 160091 frame

For further information, refer to chapter 08 D "Drainage and Air Equalisation" in the "General Processing" manual.

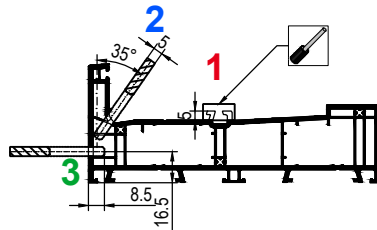
Milling measures

Milling also of colour products:
Milled opening to the front
Ø5mm x 25mm + 1x Ø5mm



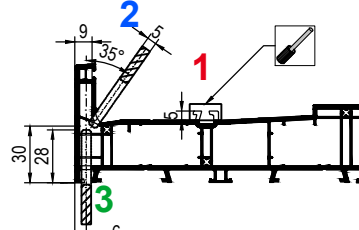
Sash 160x94

Standard:
Milled opening to the front
Ø5mm x 31mm



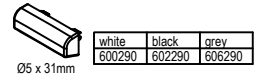
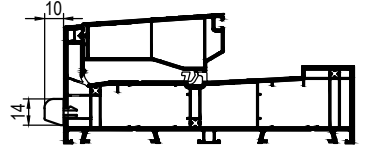
Frame 160x91

Alternative:
Milled opening in the bottom
Ø5mm x 25mm



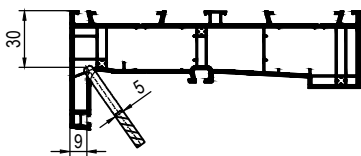
Frame 160x91

Compatible drain slot cap:
cap:
(Ø5mm x 31mm)



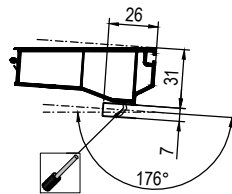
Frame 160x91

Air equalisation of frame:
Milled opening on top
Ø 5 mm



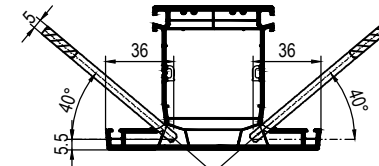
Frame 160x91

Drainage:
Milling in the length
of 40mm



Cover 160291

Air equalisation for color products:
Milled opening Ø 5 mm

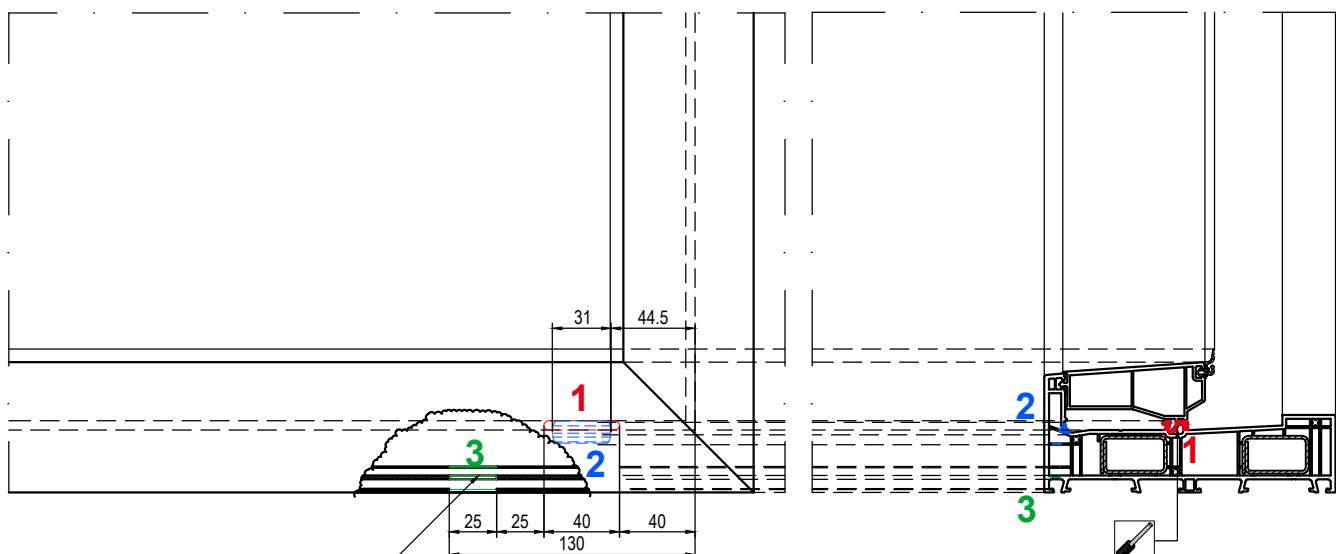


Air equalisation of color mullion
(Ø 5.0 mm)

Mullion 160043

Concealed drainage of the frame and air equalisation

Alternative

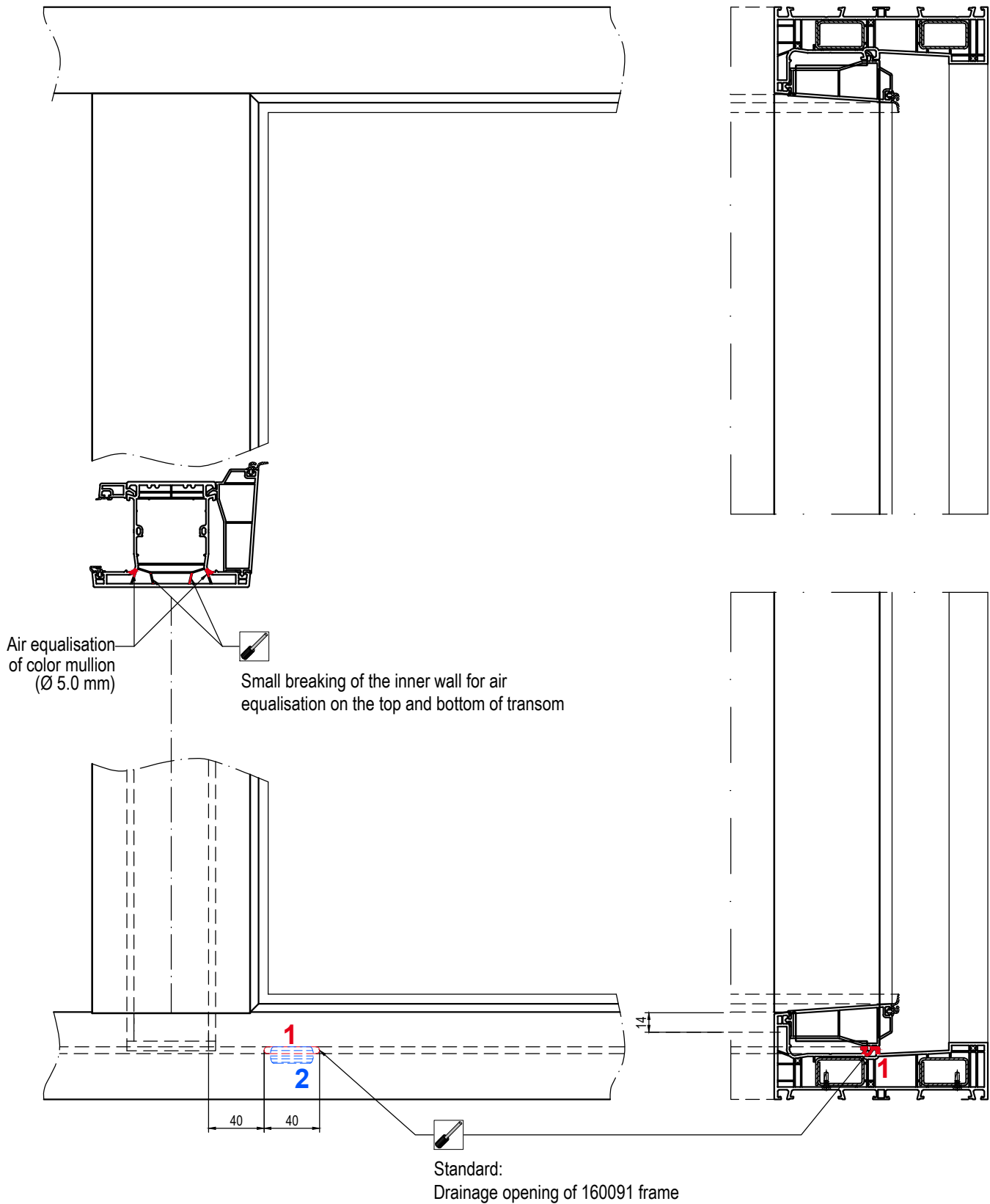


Alternative:
Milled opening to the bottom
Ø5mm x 25mm

Standard:
Drainage opening of 160091 frame

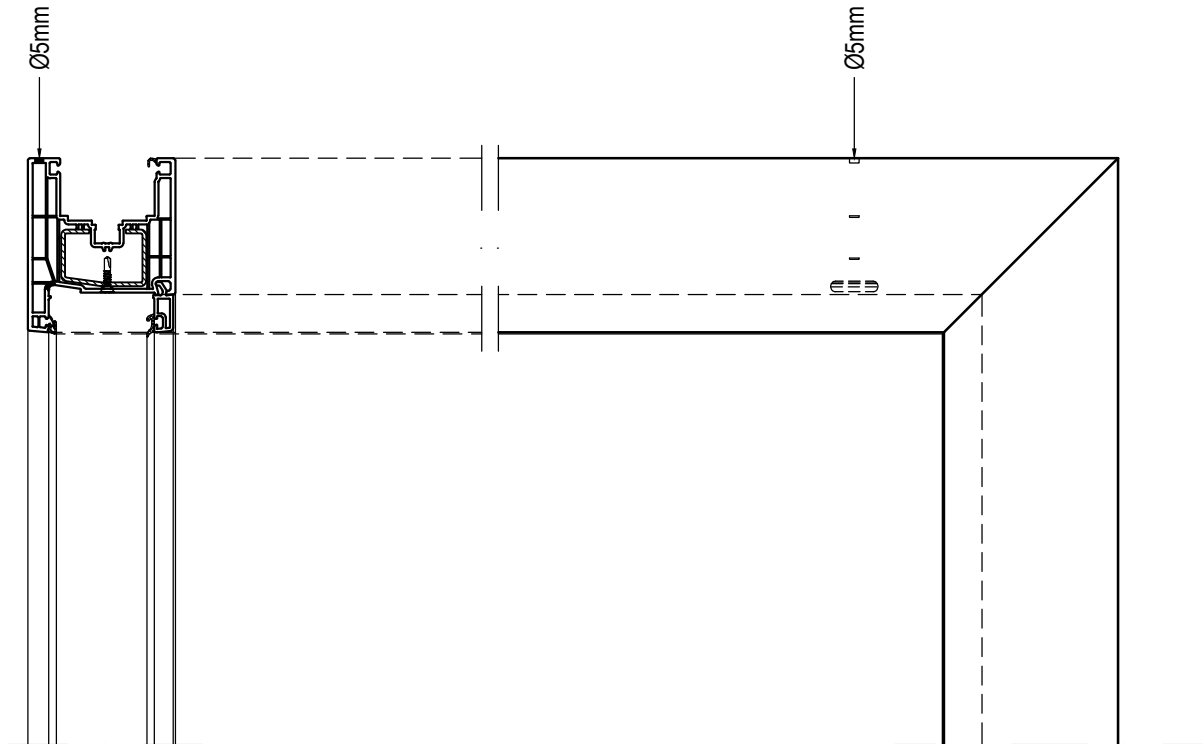
For further information, refer to chapter 08 D "Drainage and Air Equalisation" in the "General Processing" manual.

Air equalization of the mullion

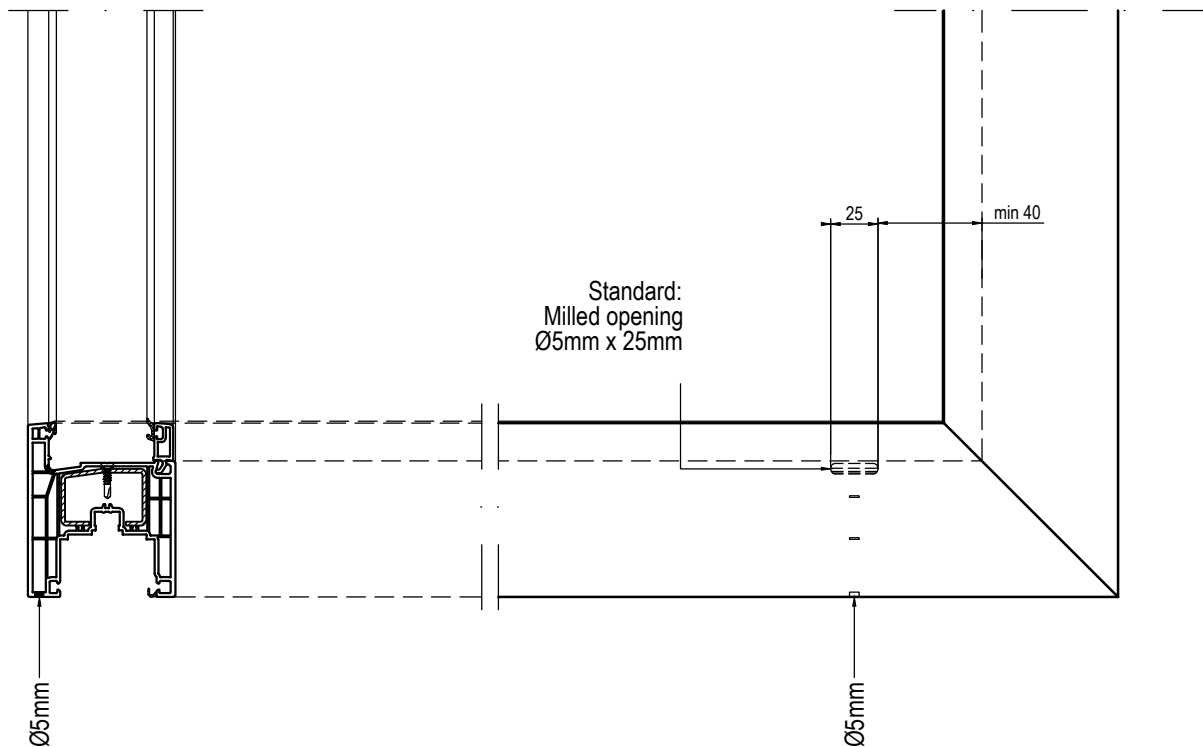


For further information, refer to chapter 08 D "Drainage and Air Equalisation" in the "General Processing" manual.

Air equalization of the sash



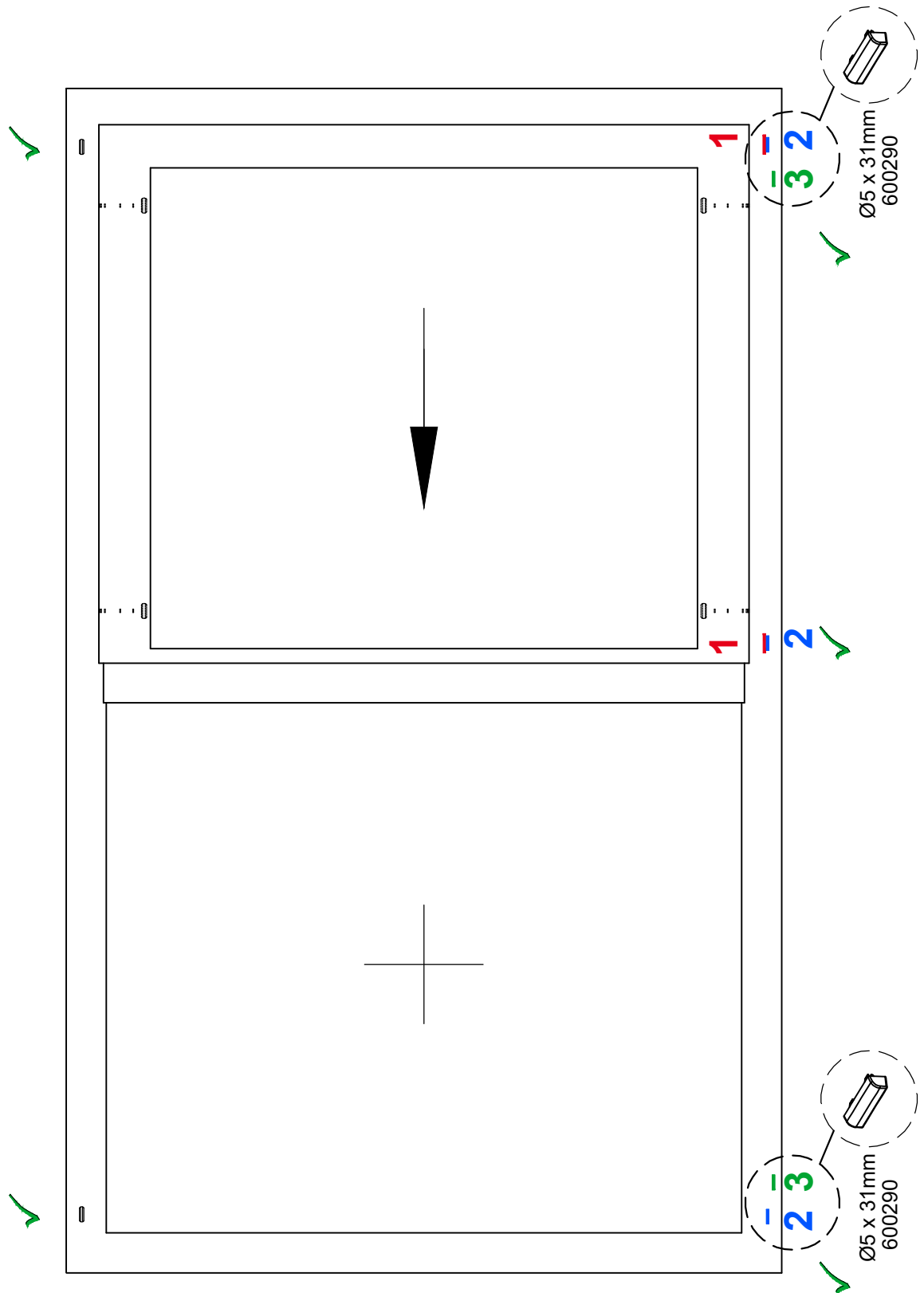
Concealed drainage of the sash to the bottom



For further information, refer to chapter 08 D "Drainage and Air Equalisation" in the "General Processing" manual.

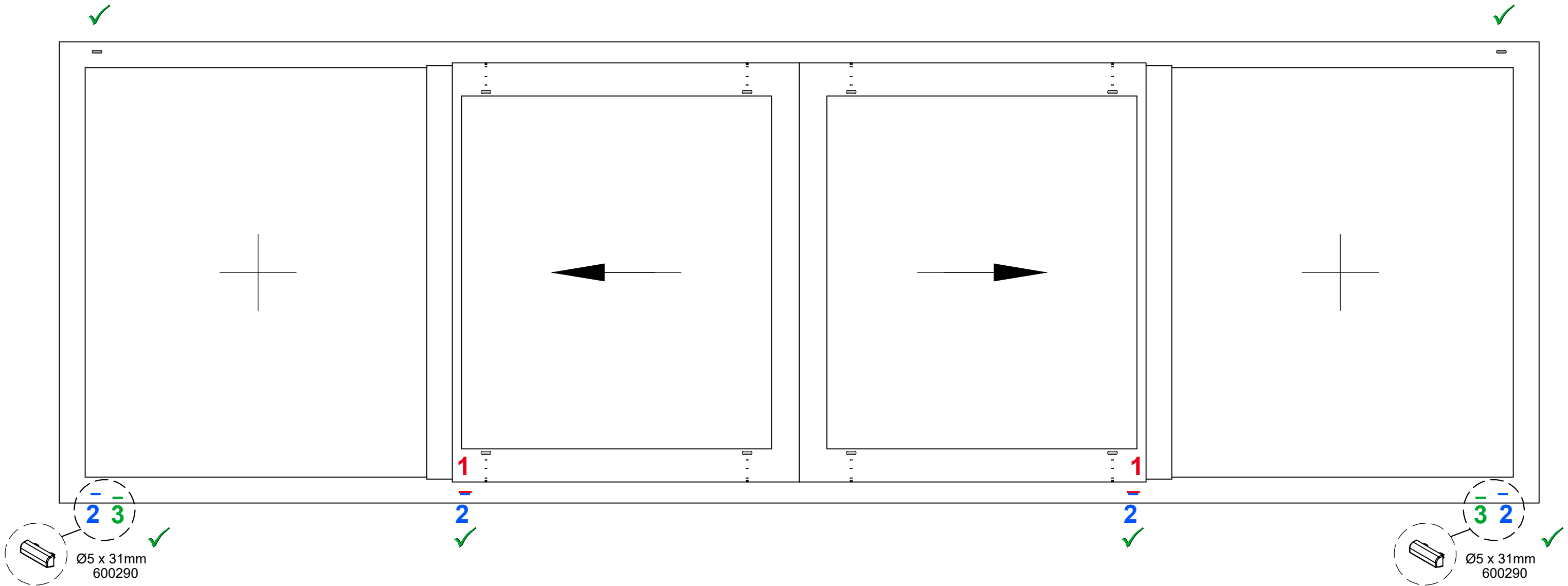
Overview of drainage and air equalisation

Standard (only 2 drainage openings necessary on frame per Element, left and right at the bottom)

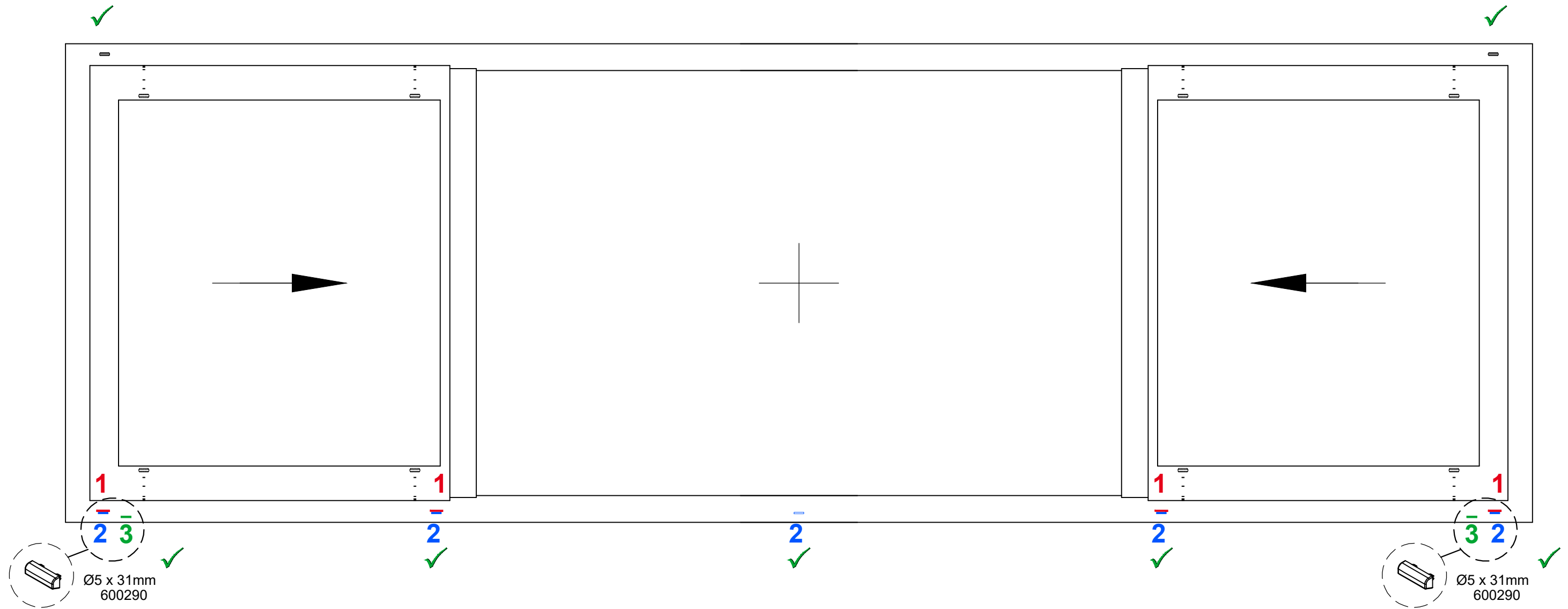


For further information, refer to chapter 08 D "Drainage and Air Equalisation" in the "General Processing" manual.

Overview of drainage and air equalisation



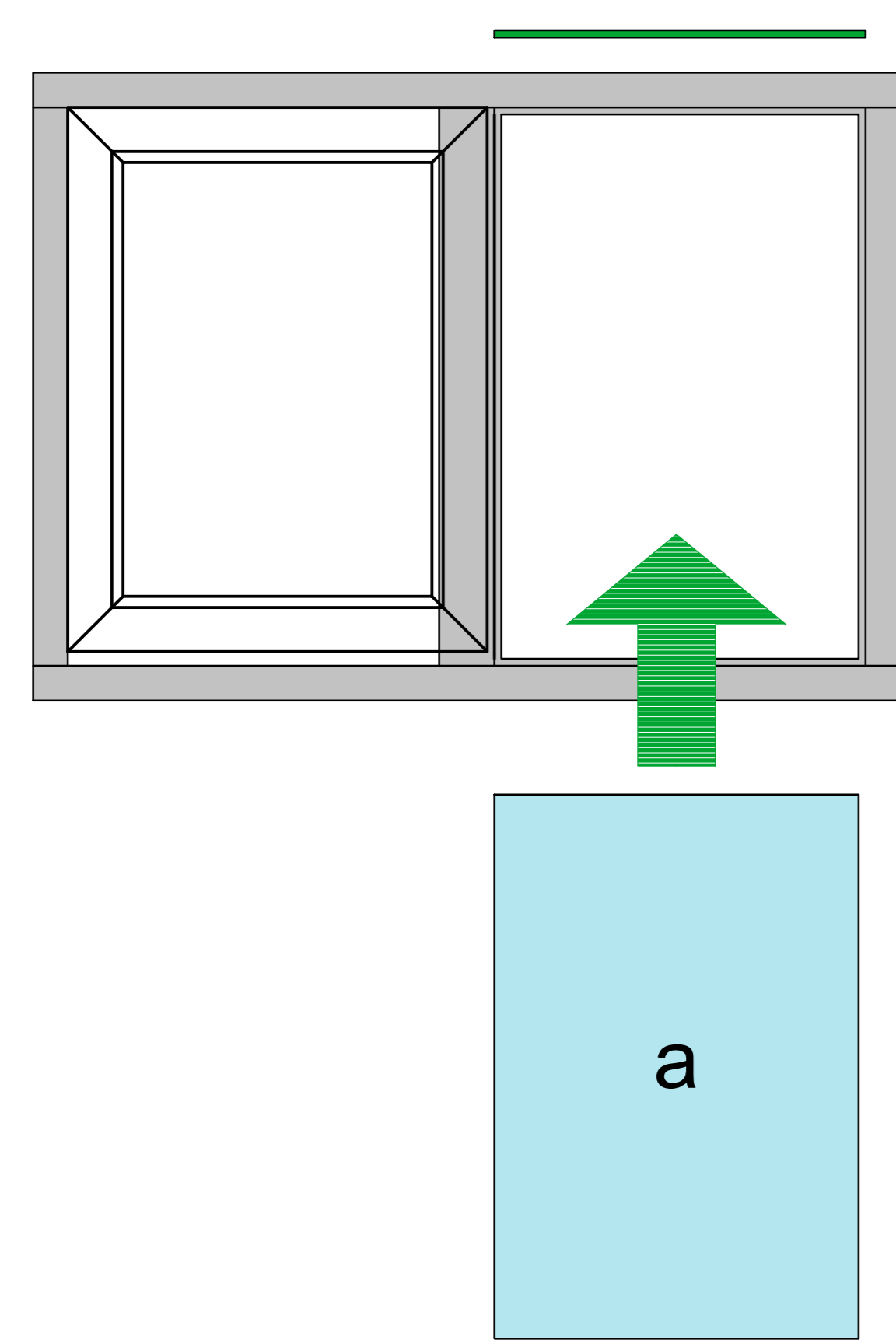
Overview of drainage and air equalisation



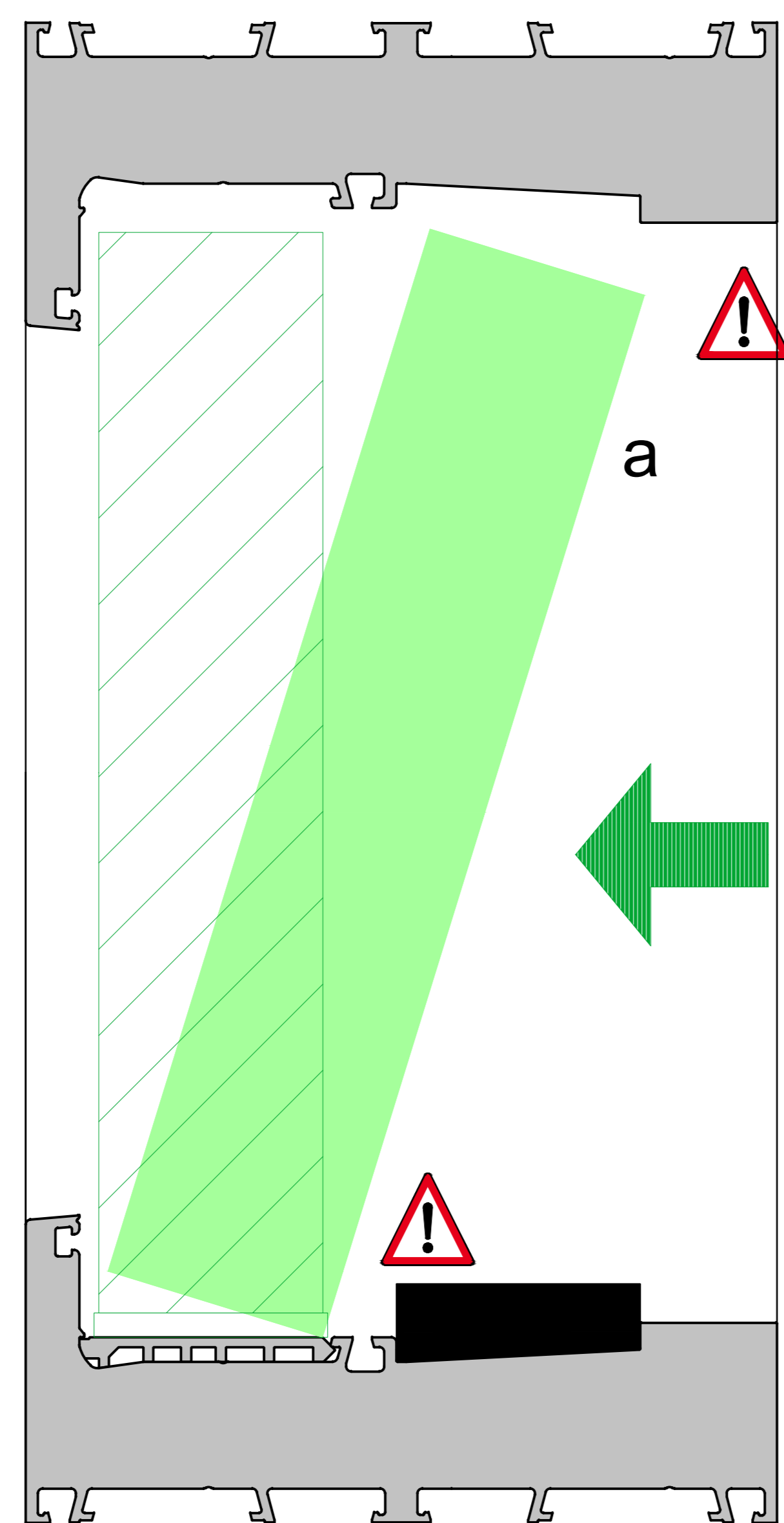
Mounting

of the fix glass

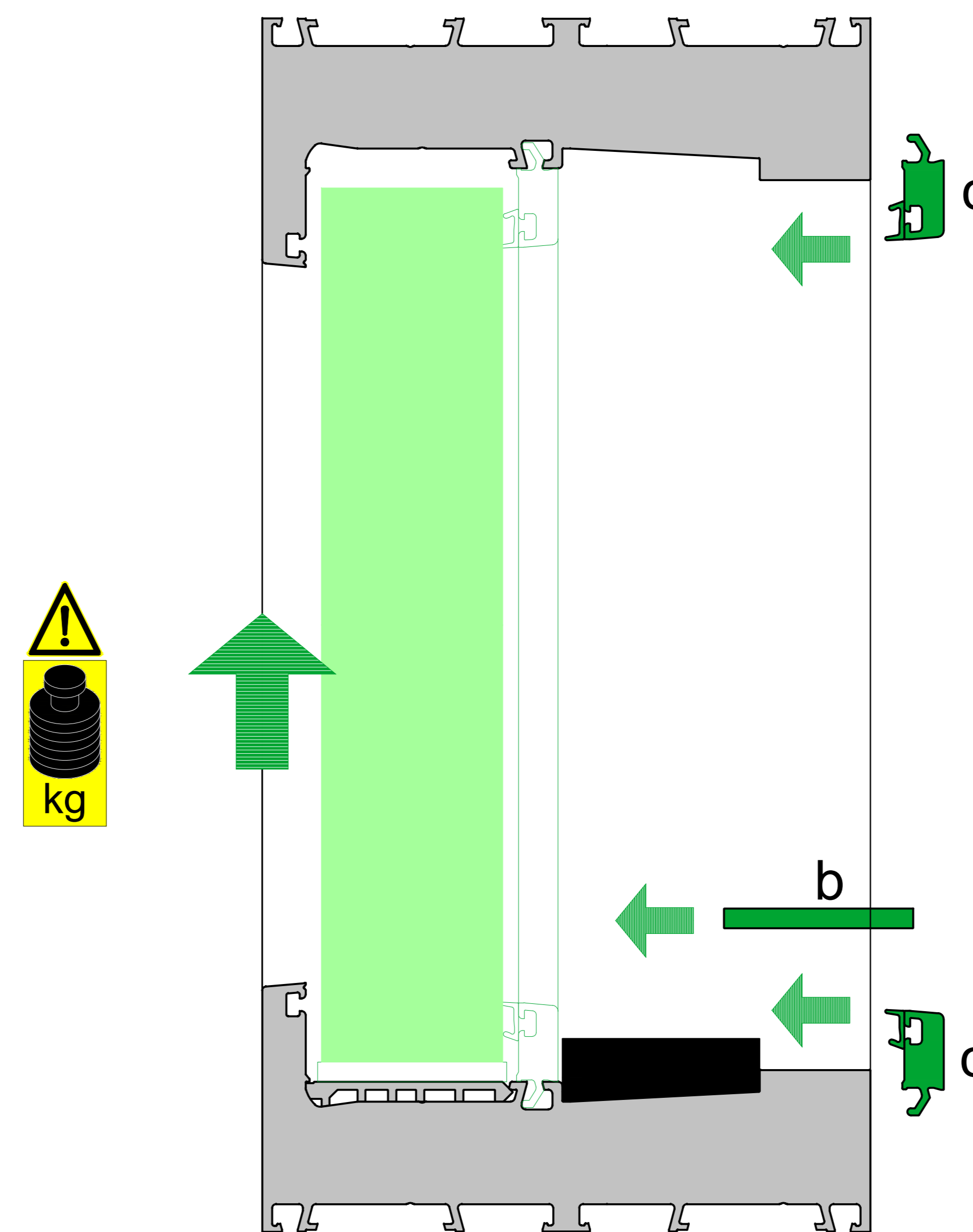
Mounting



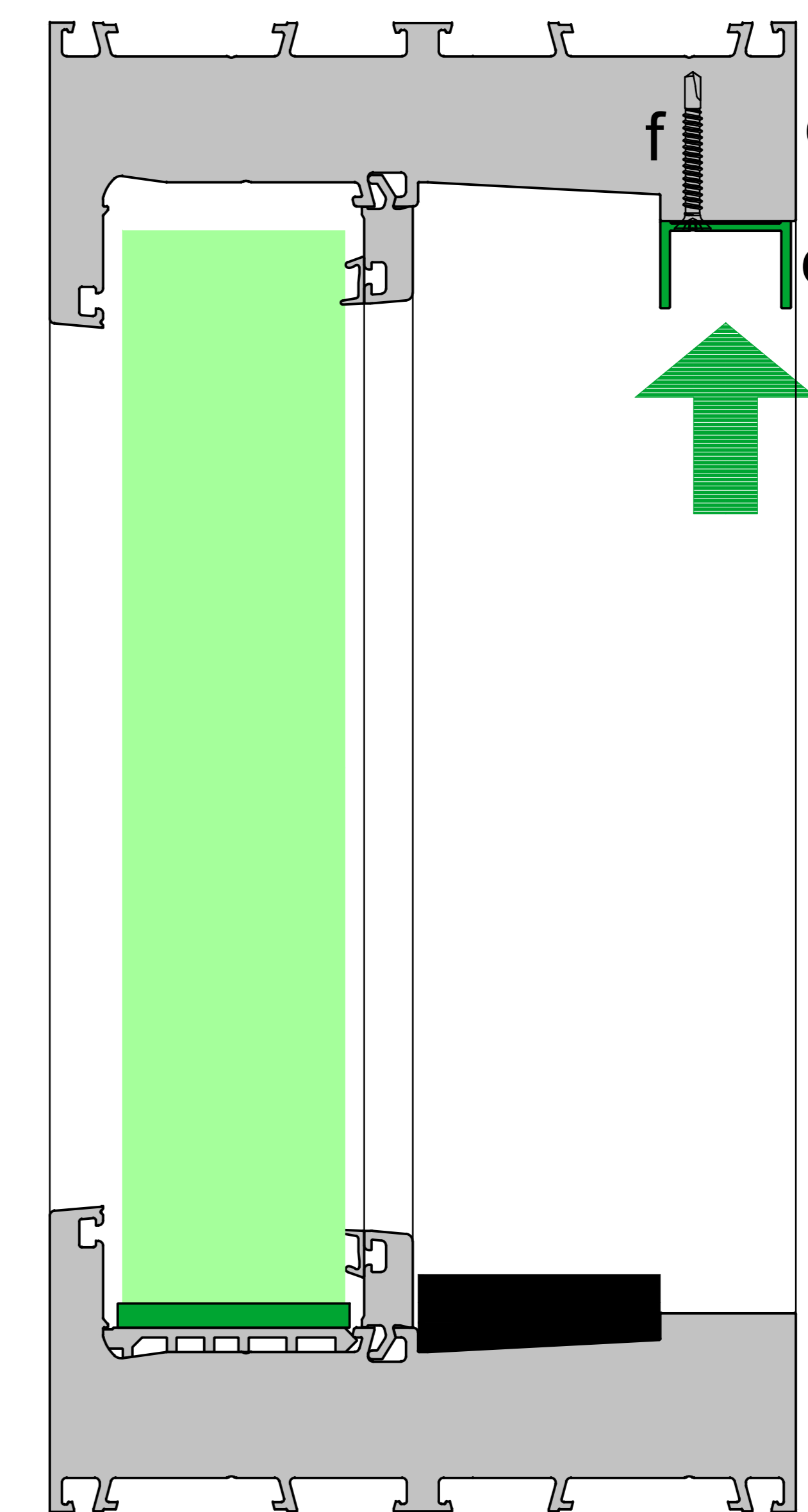
1. Position the tilted fix glass (a) without the glazing beads (b) and without glazing bloks.(c)



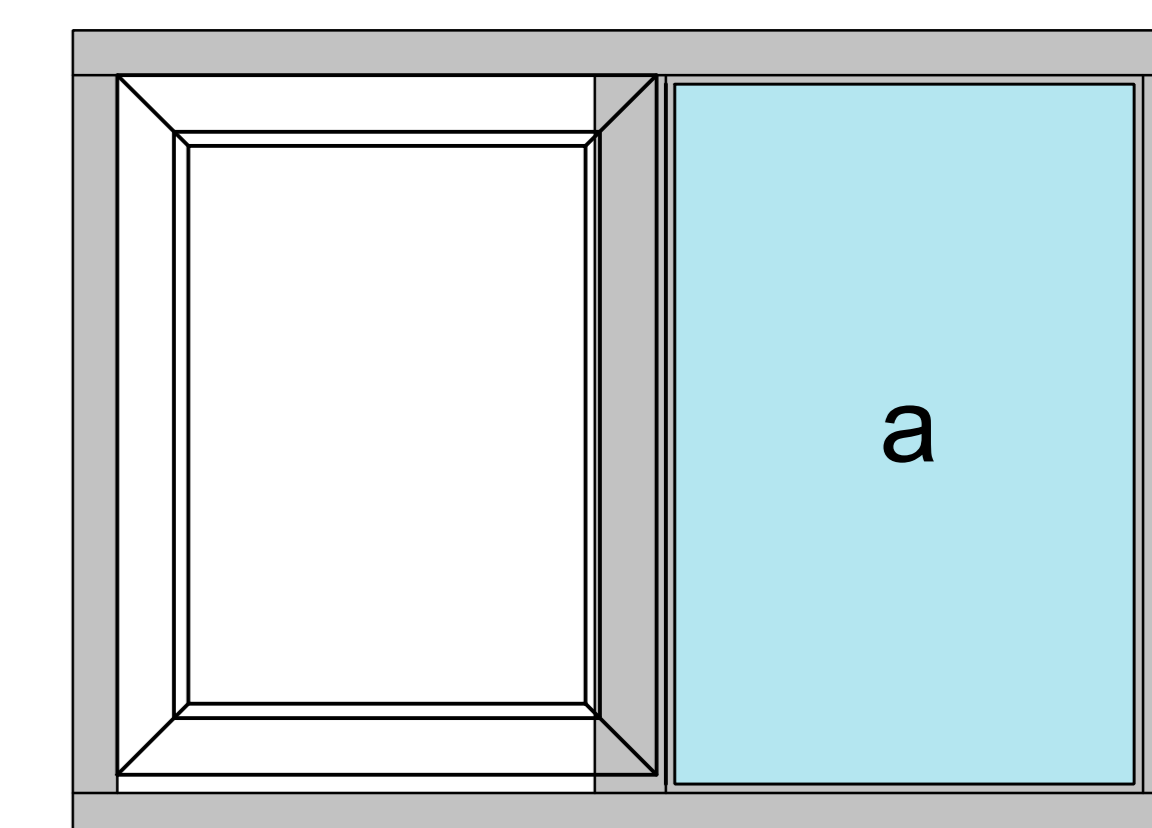
2. Place the glazing beads (c) Place the glazing bloks under and on the sides glass (b)



3. Place the half guide rail (d) in the frame (e) and fix it with screws, for Example 3.9x25mm (f).



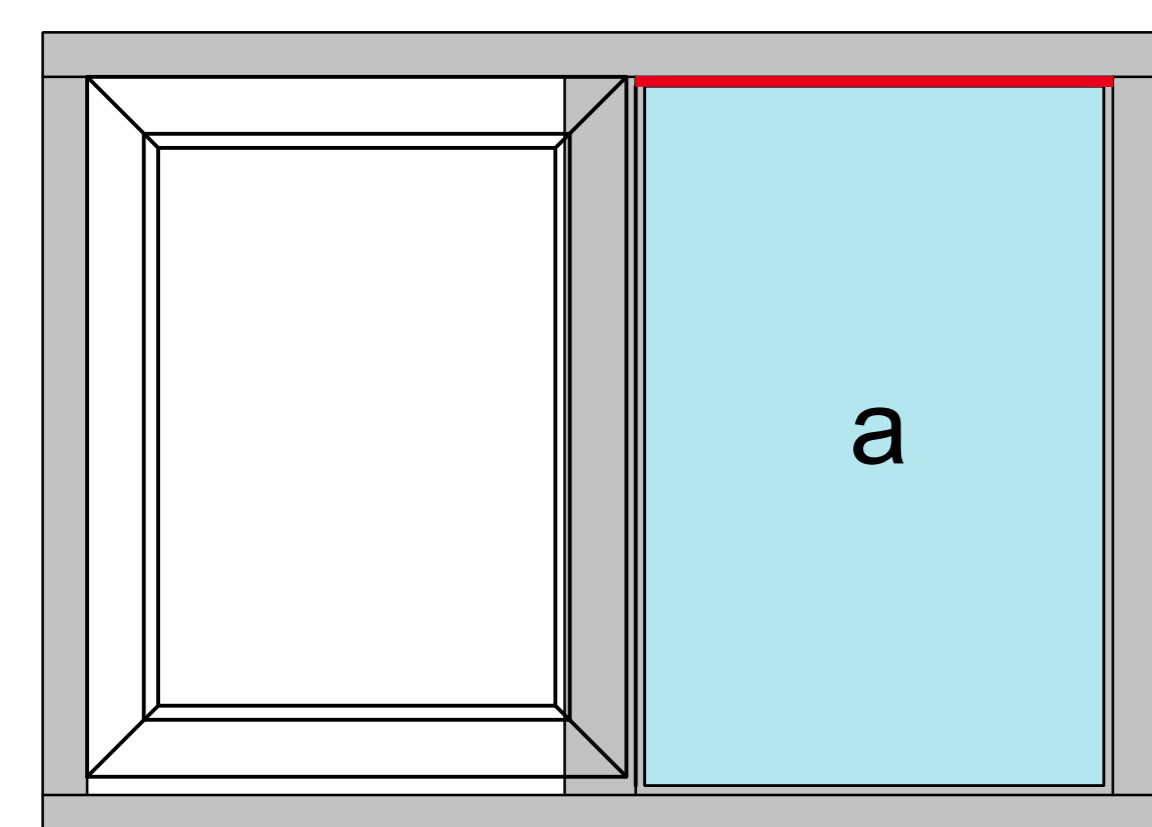
4.



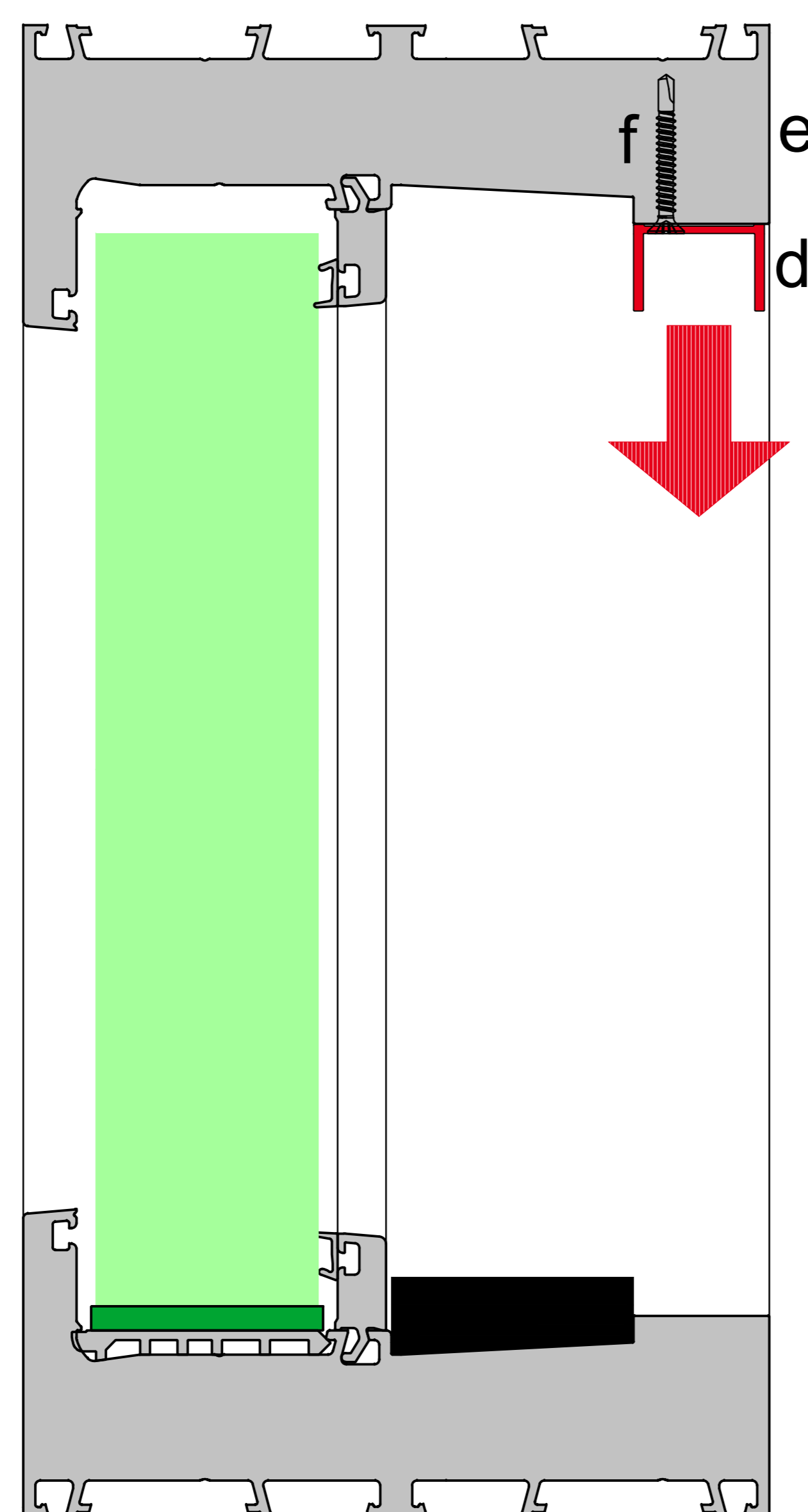
Dismounting

of the fix glass

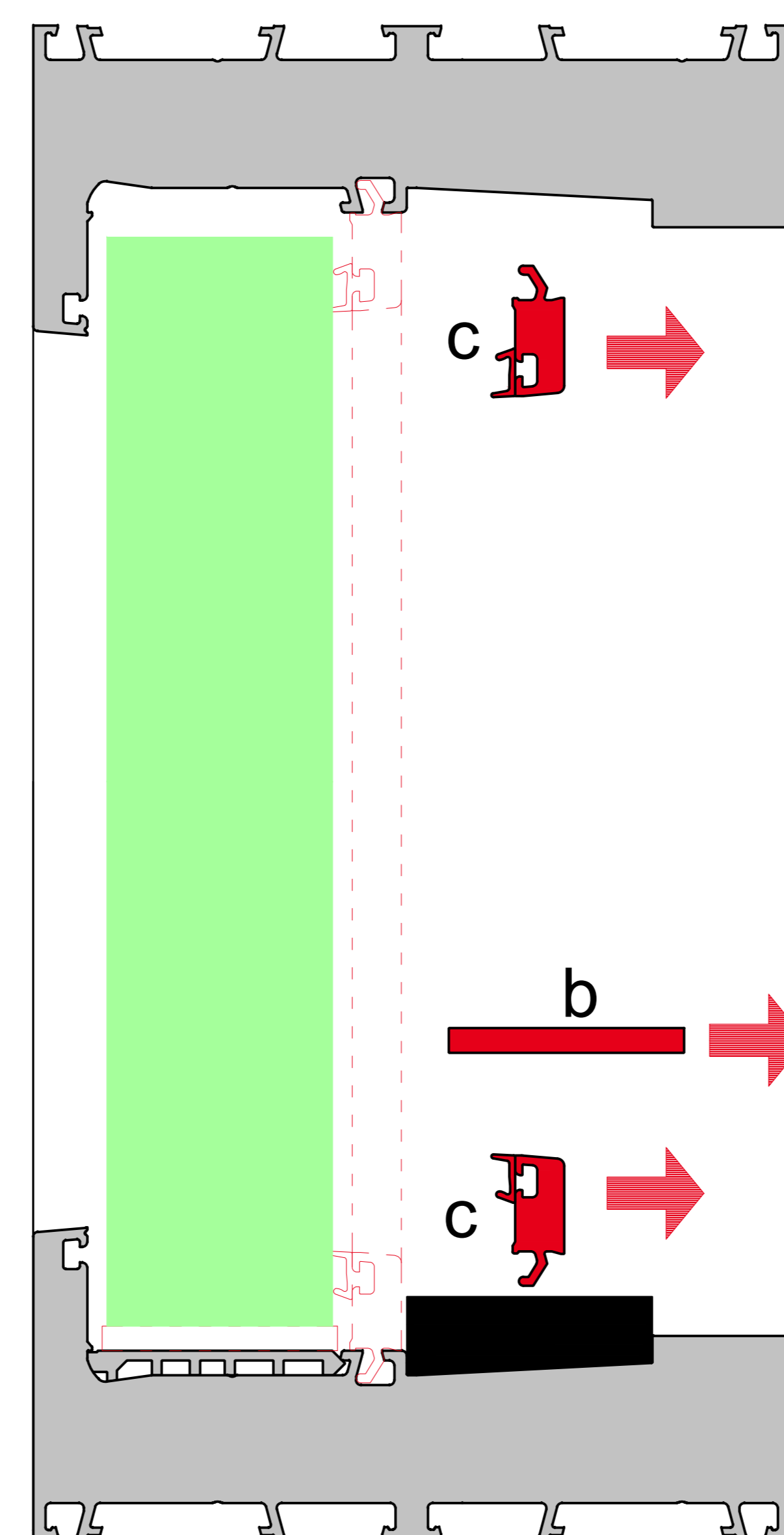
Dismounting



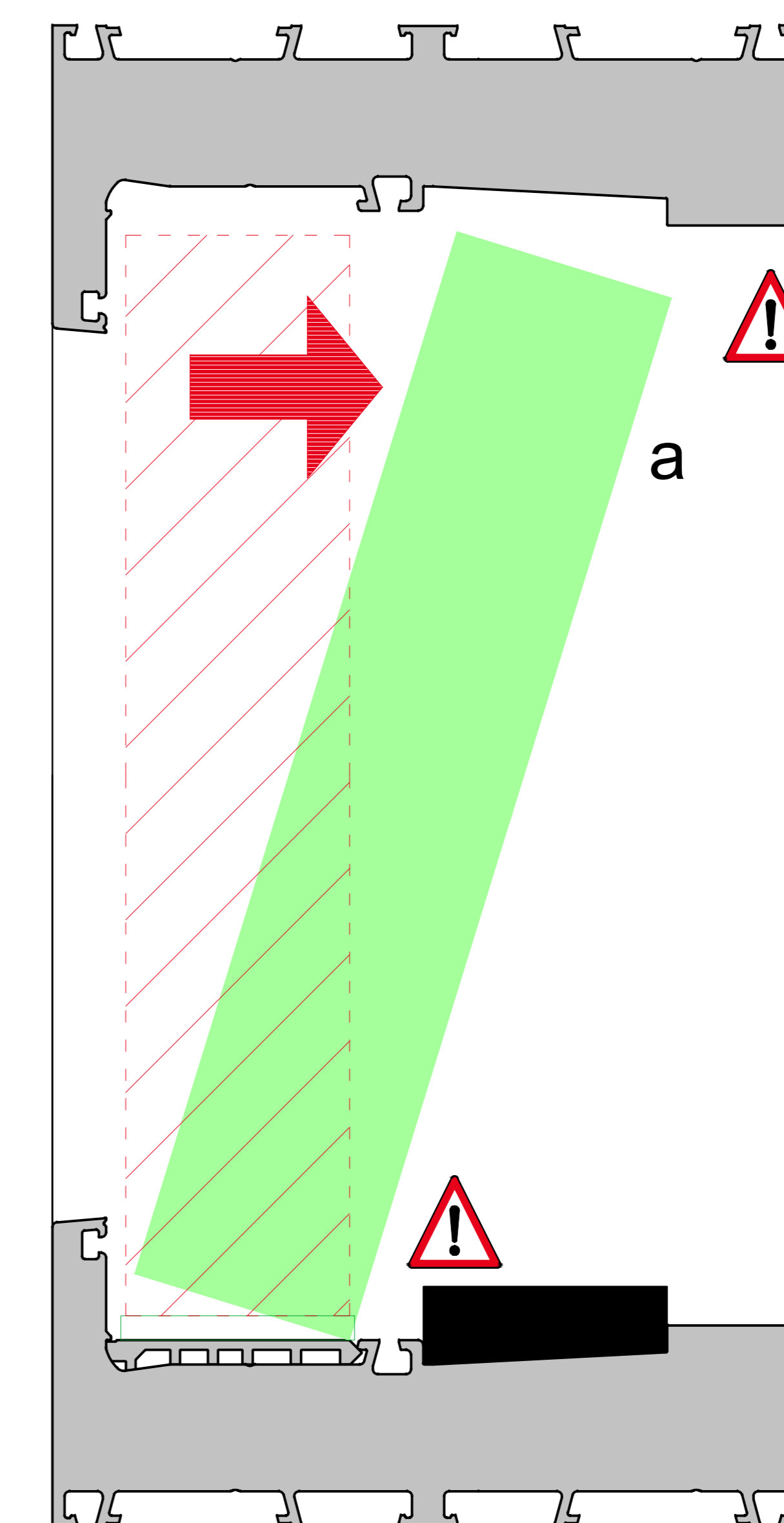
1. Remove the screws (f), replace the guide rail (d)



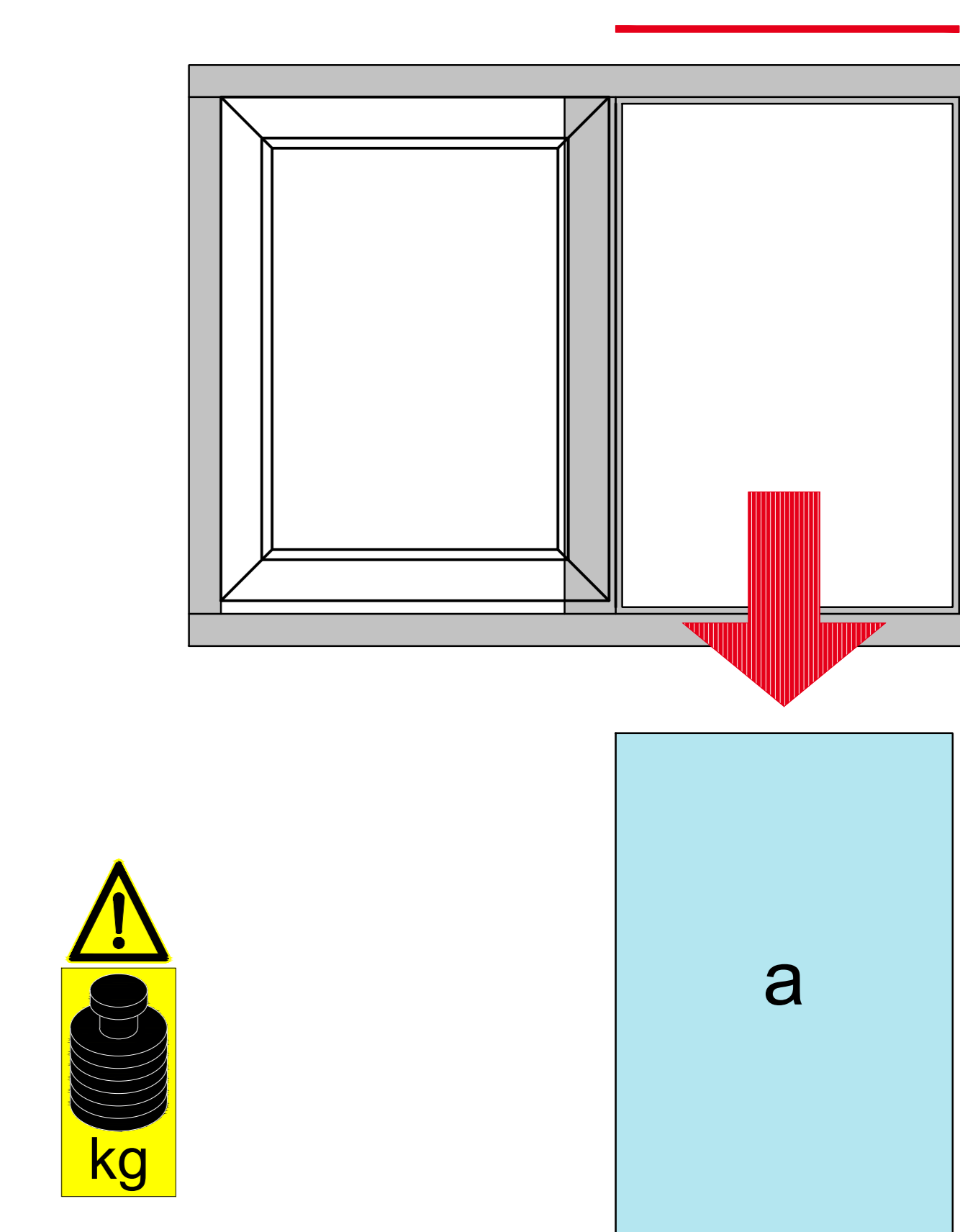
2. replace the glazing beads (c) replace the glazing bloks under and on the sides glass (b)



3. Tilt the fix glass (a)



4.



Mounting of the Sliding Sash

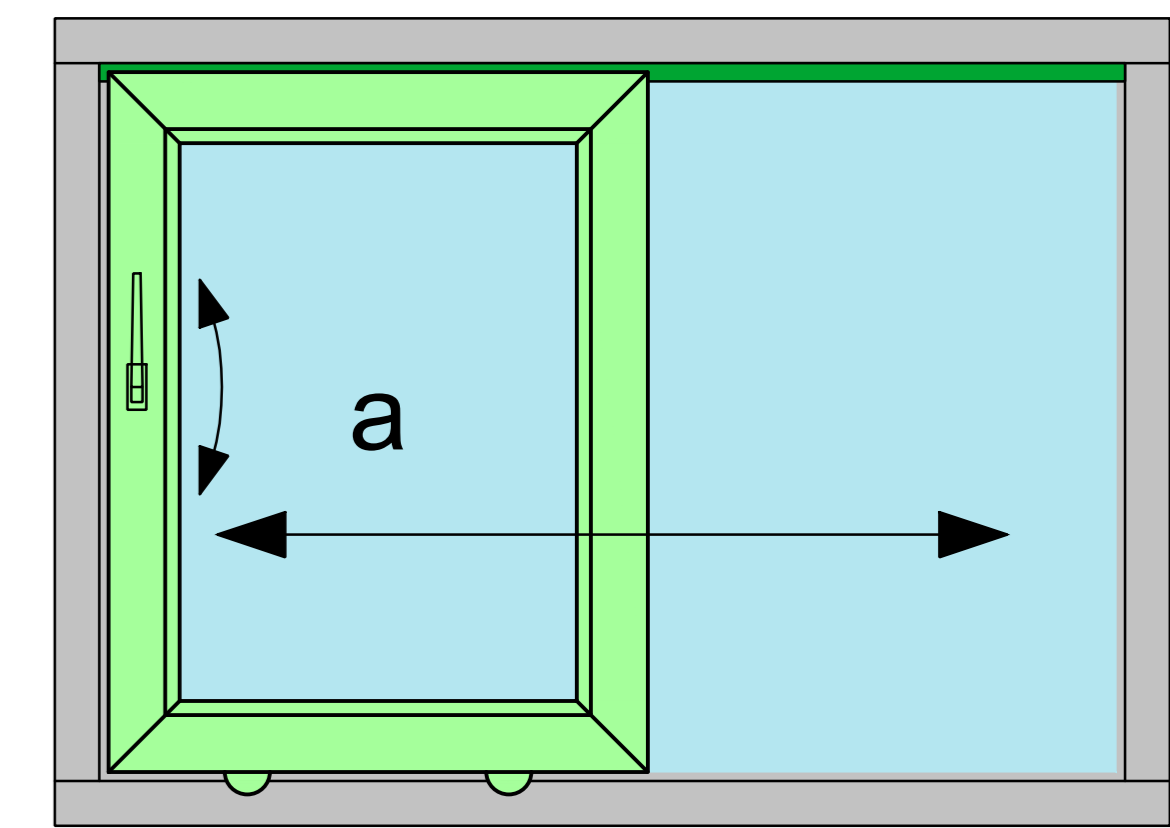
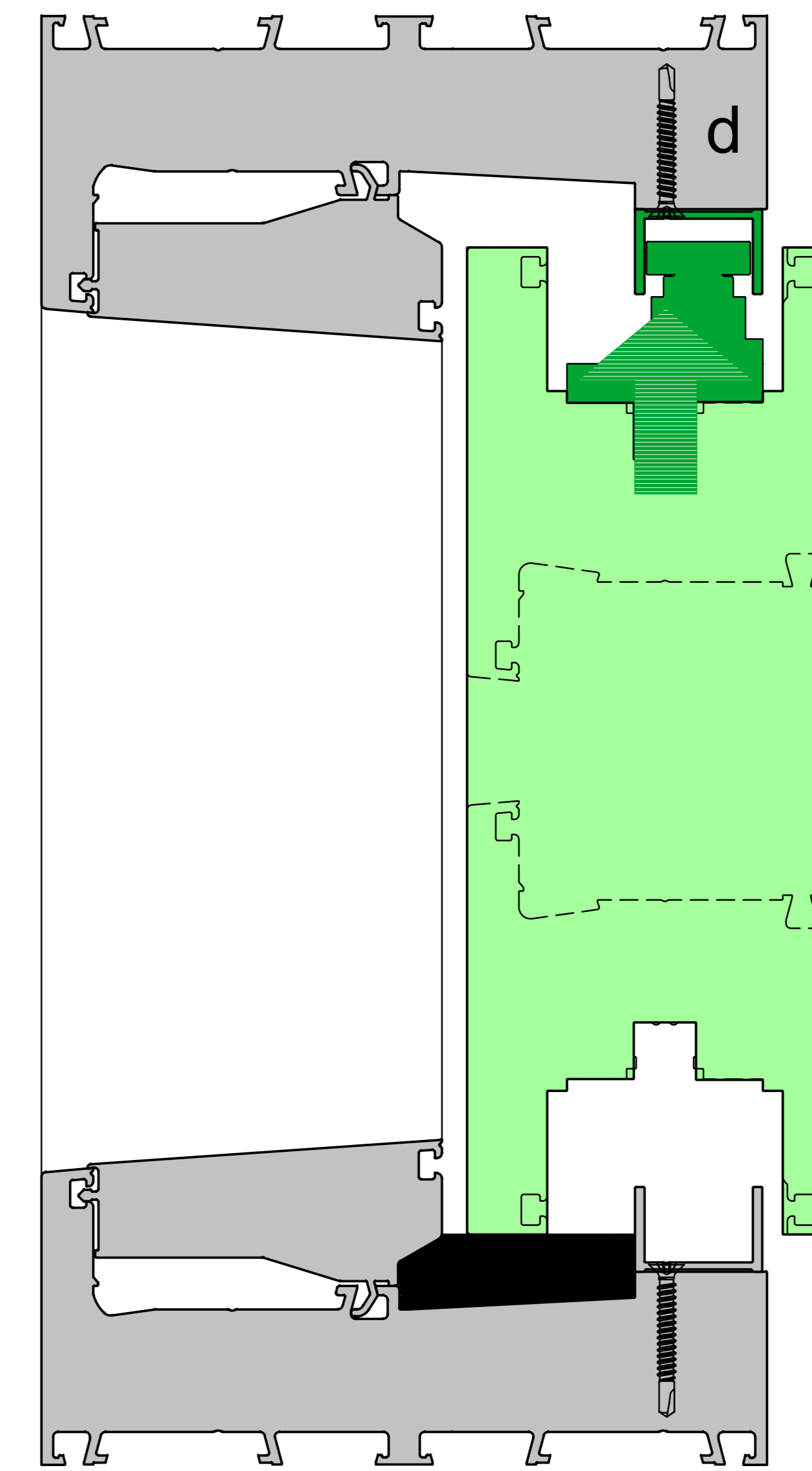
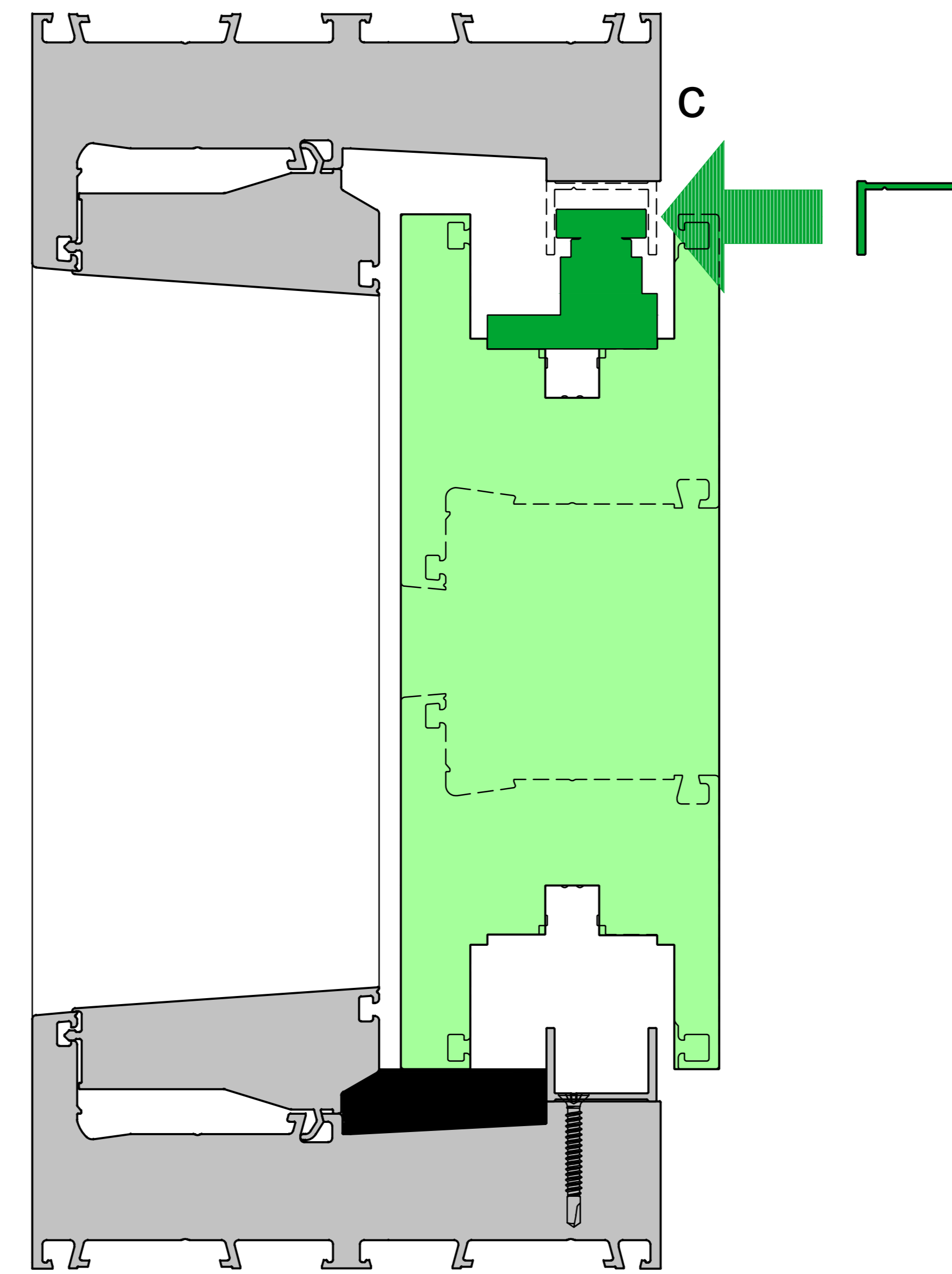
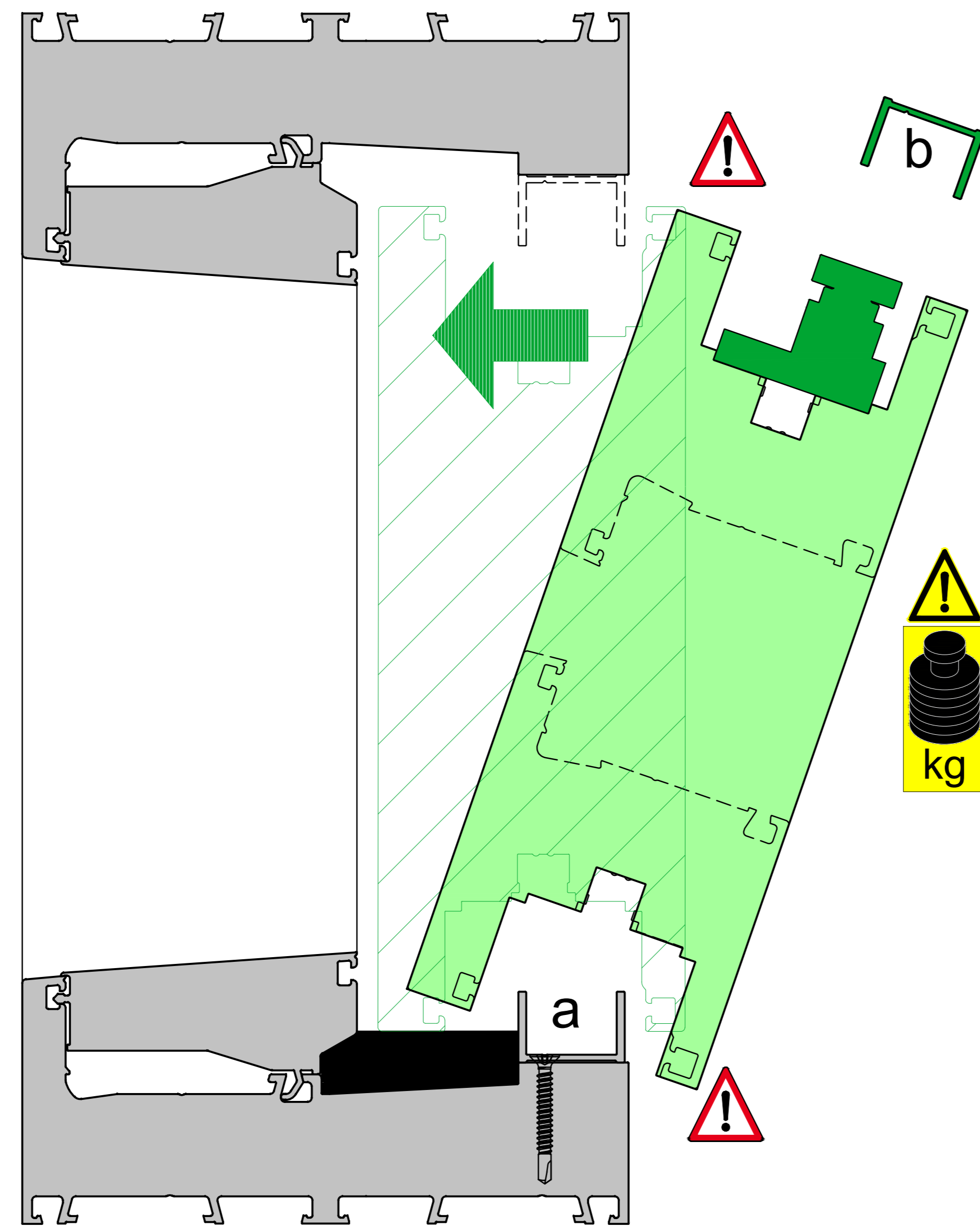
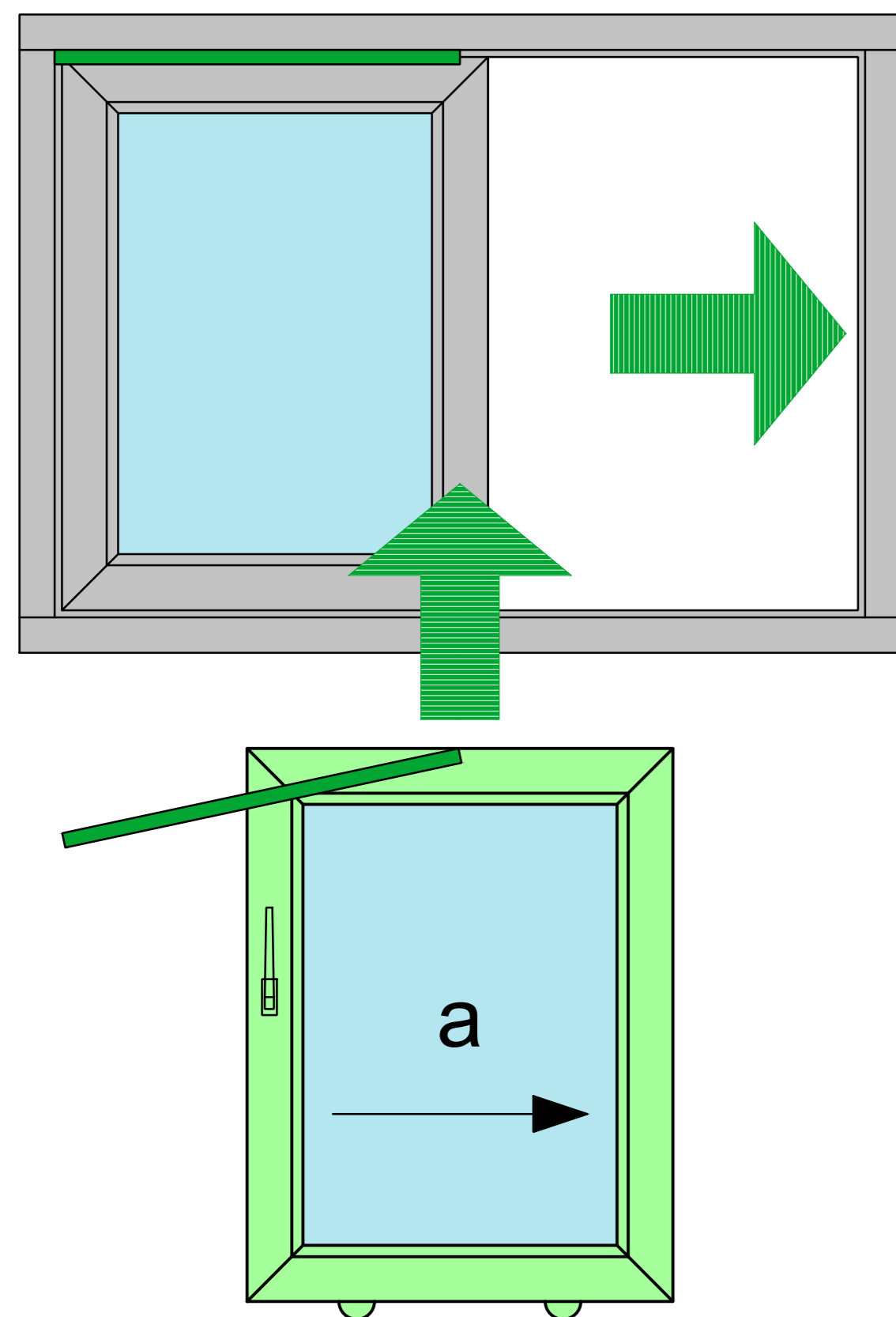
Mounting

1. Position the tilted sliding sash (a) without the already inserted half of guide rail (b), then set the sash upright.

2. Move the sliding sash on the other halfside of product. Insert the second half of guide rail into frame (c).

3. Fix the guide rail with screws, for Example 3.9 x 25 mm (d).

4. Check the sliding sash's (a) functionality.



Dismounting of the Sliding Sash

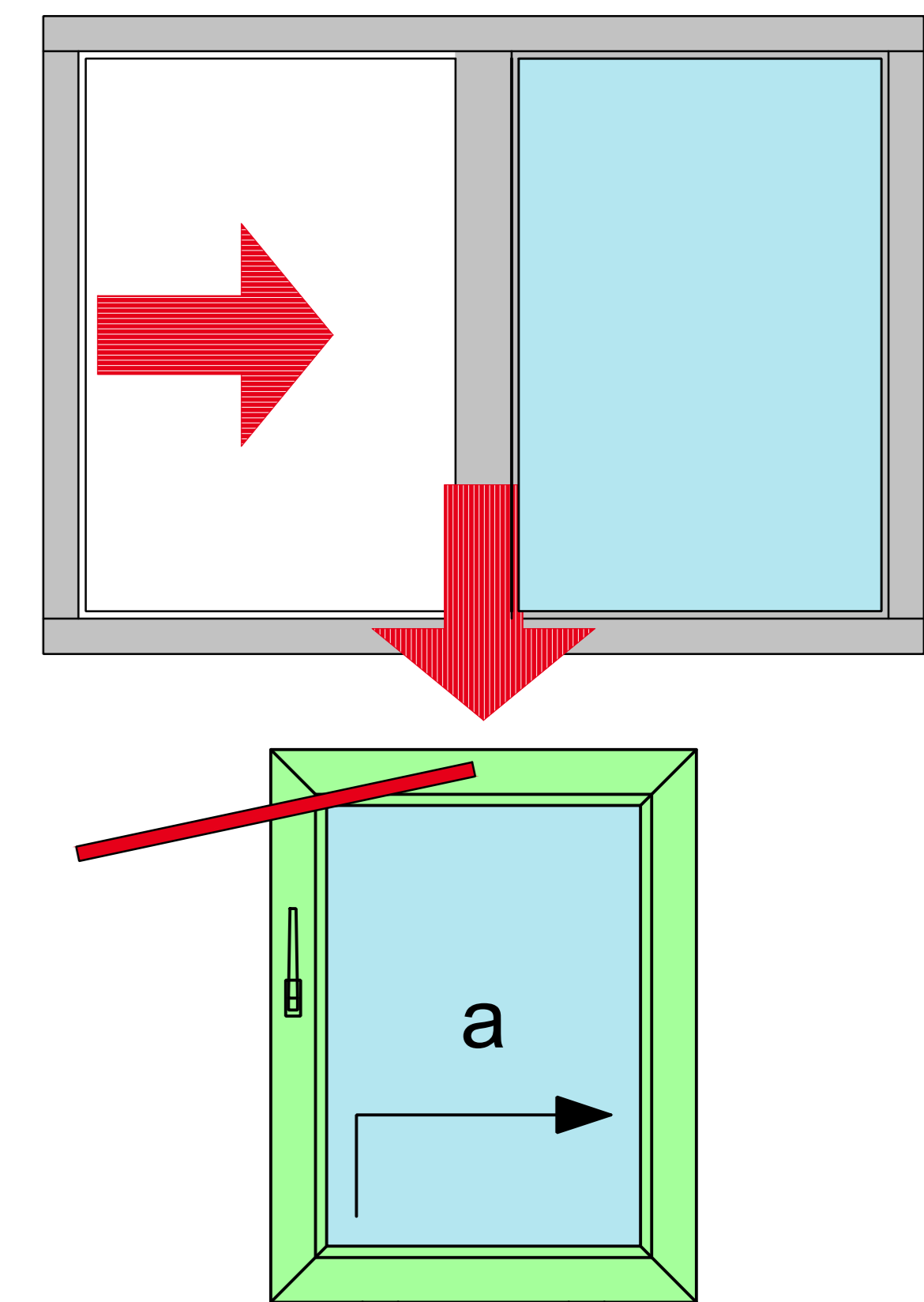
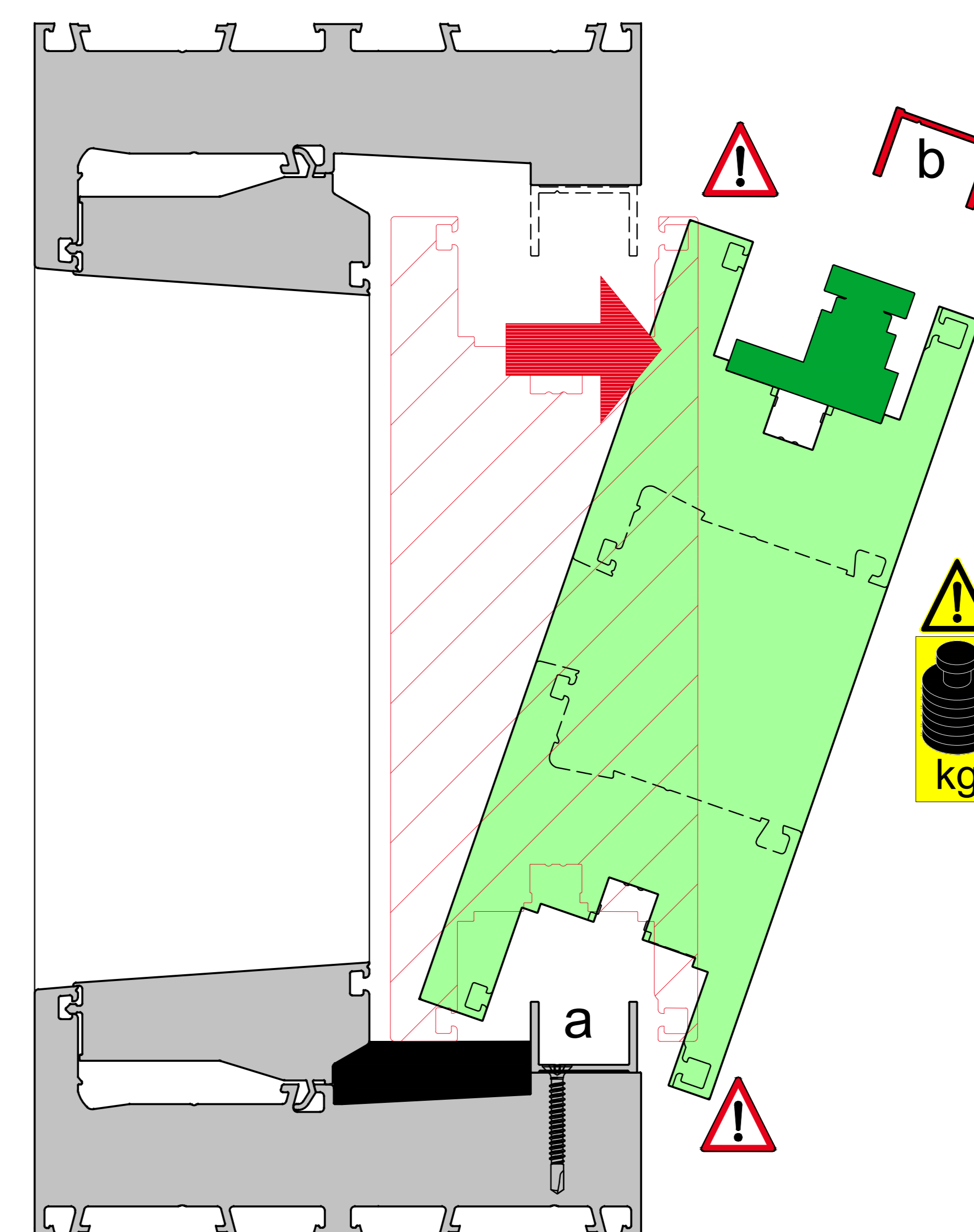
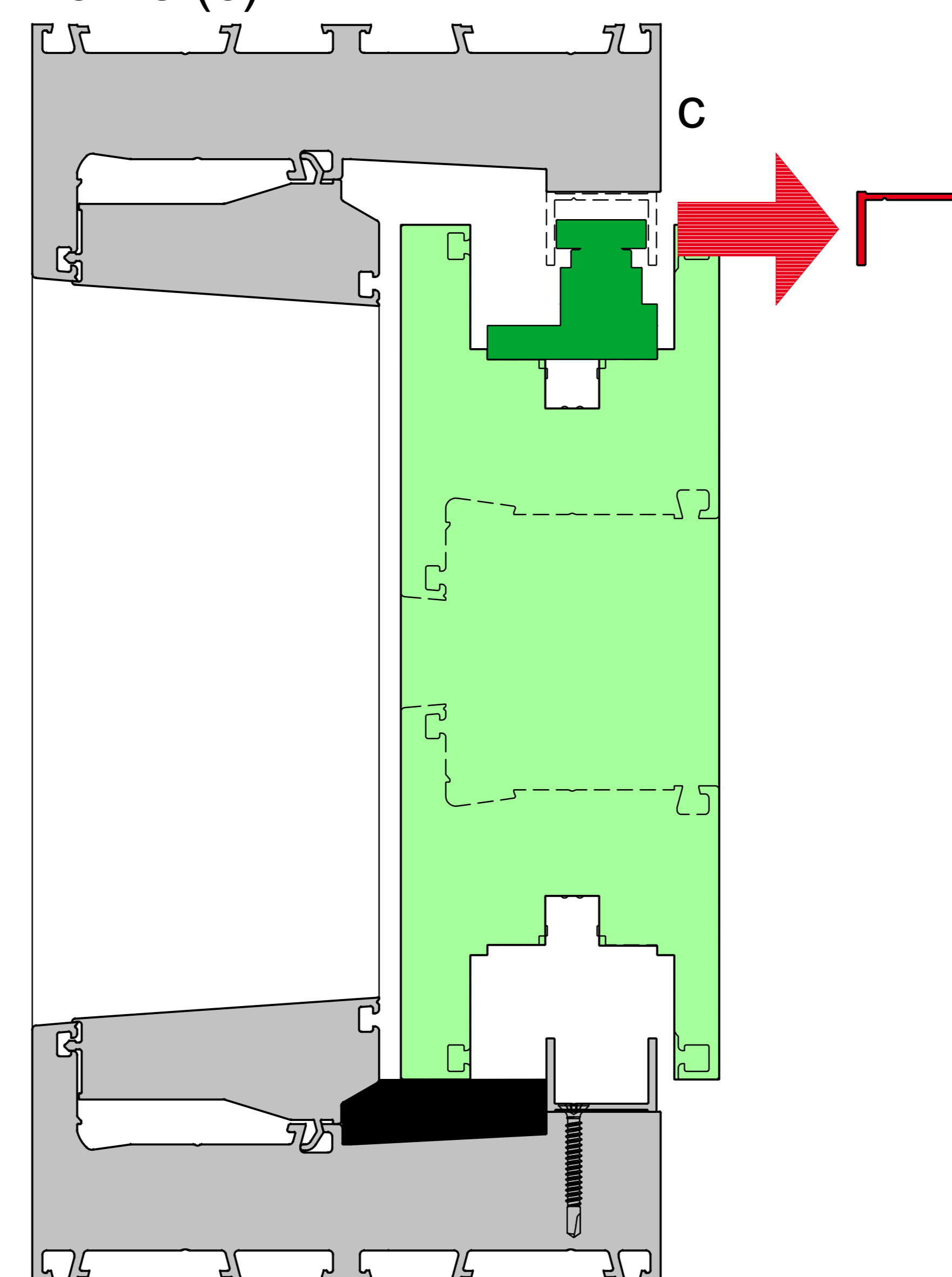
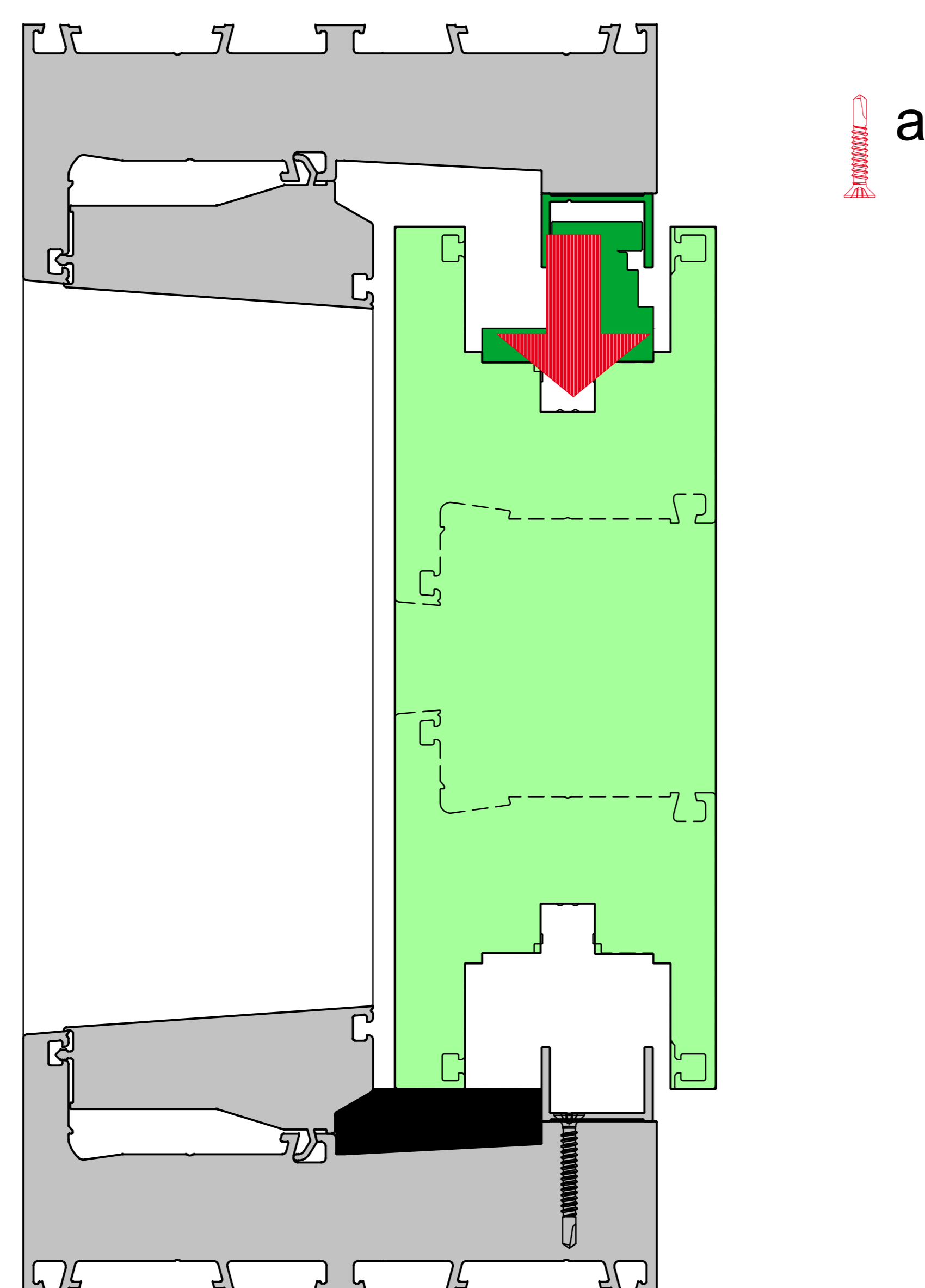
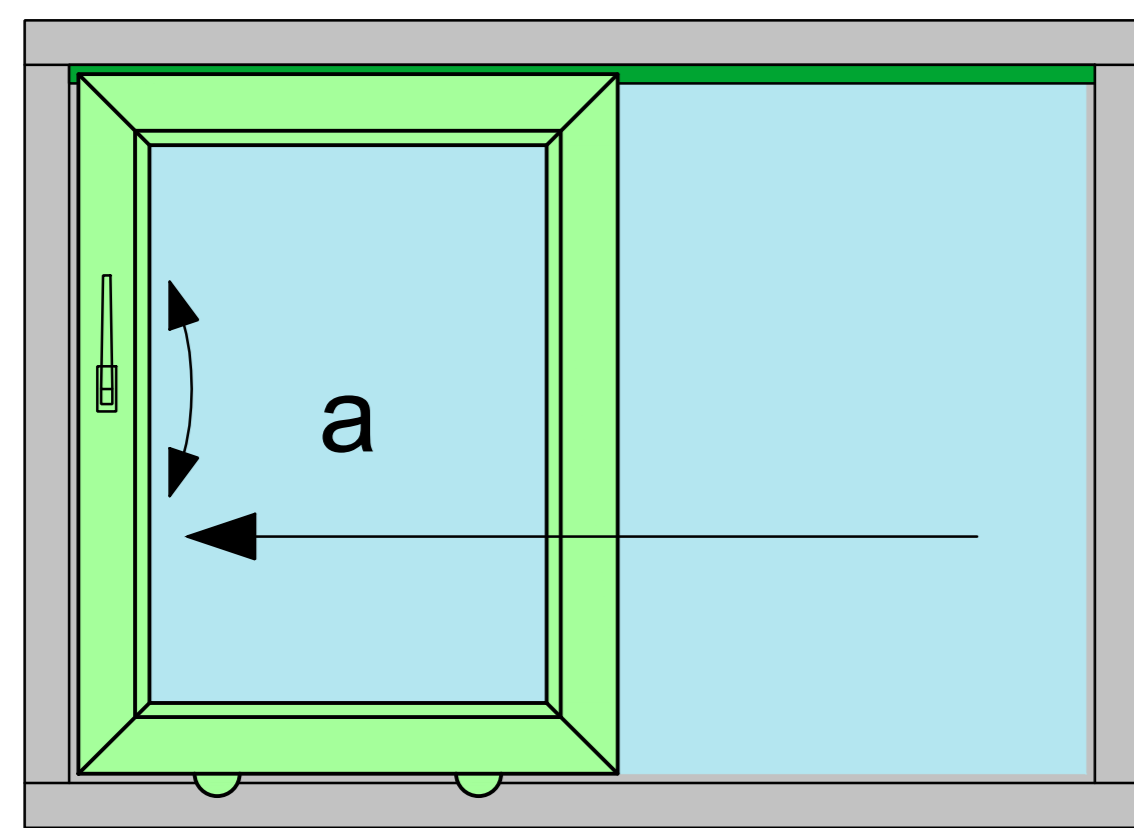
Dismounting

1. Remove the screws (a) carefully.

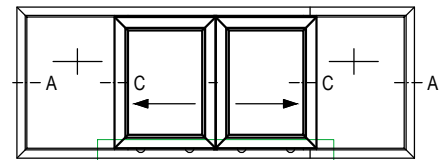
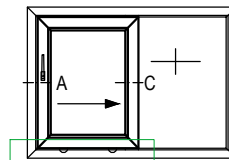
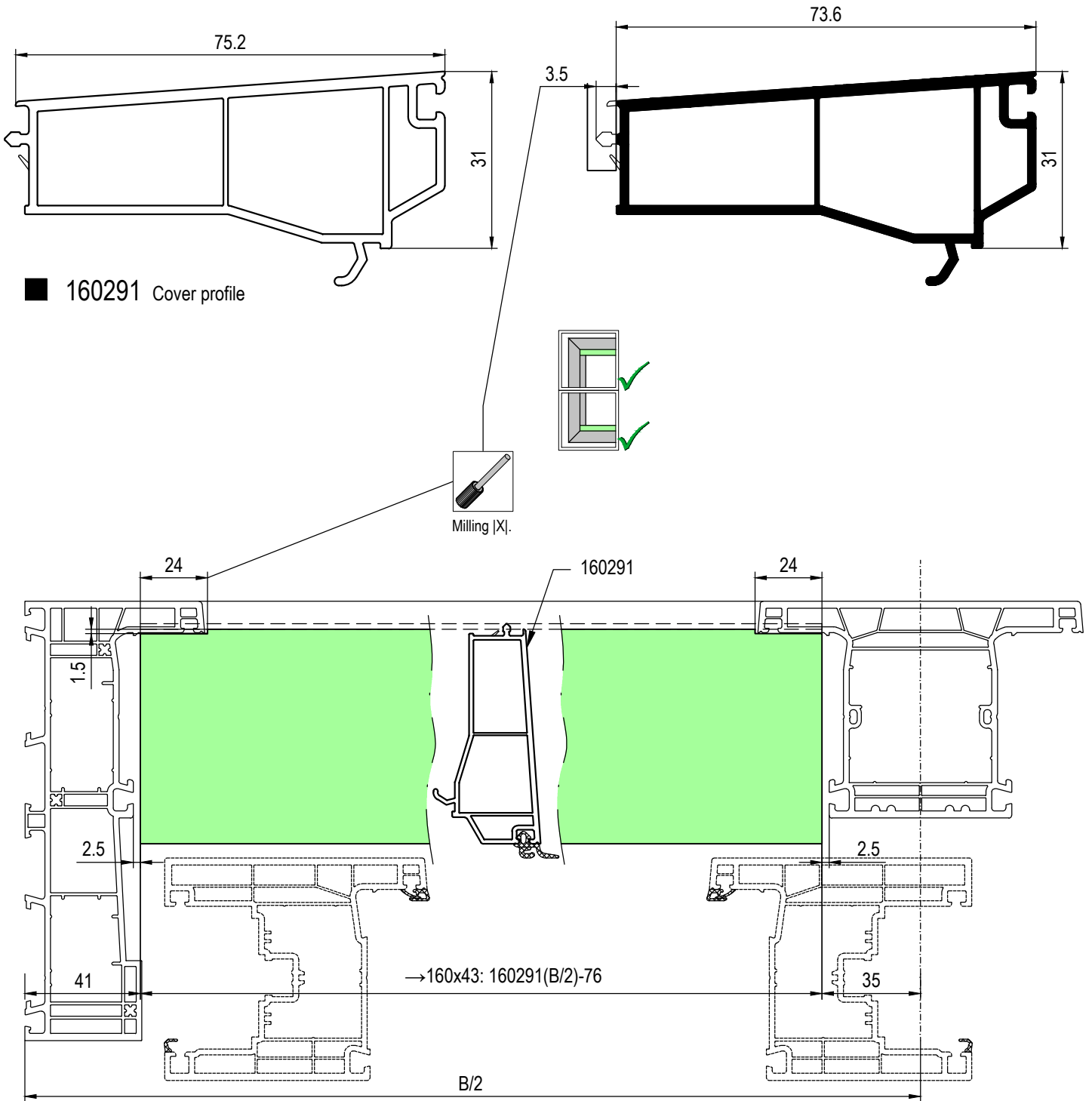
2. Move the sliding sash to the fixed side of product. Remove the one half of guide rail from frame (c).

3. Move the sliding sash (a) back in position and tilt it.

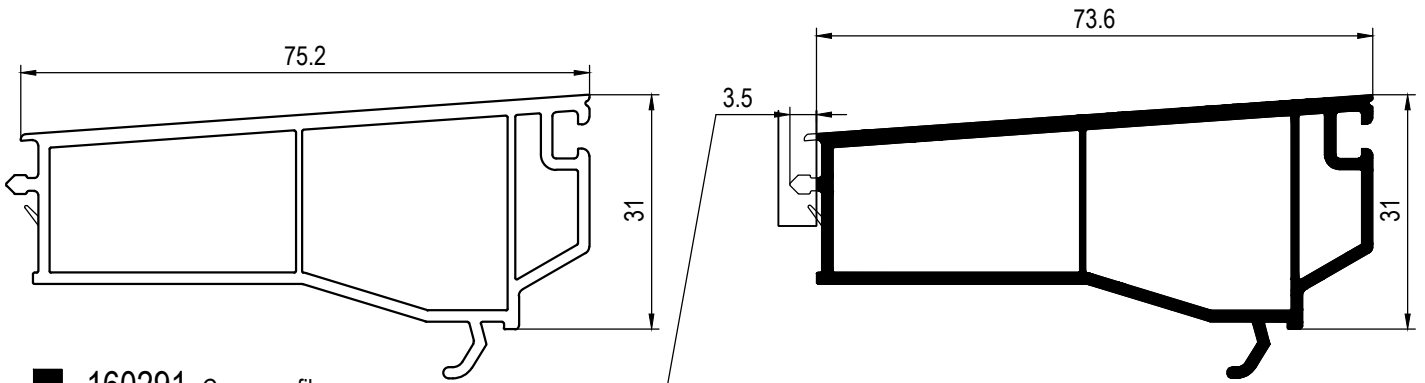
4.



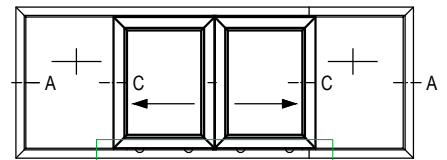
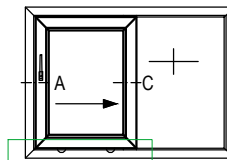
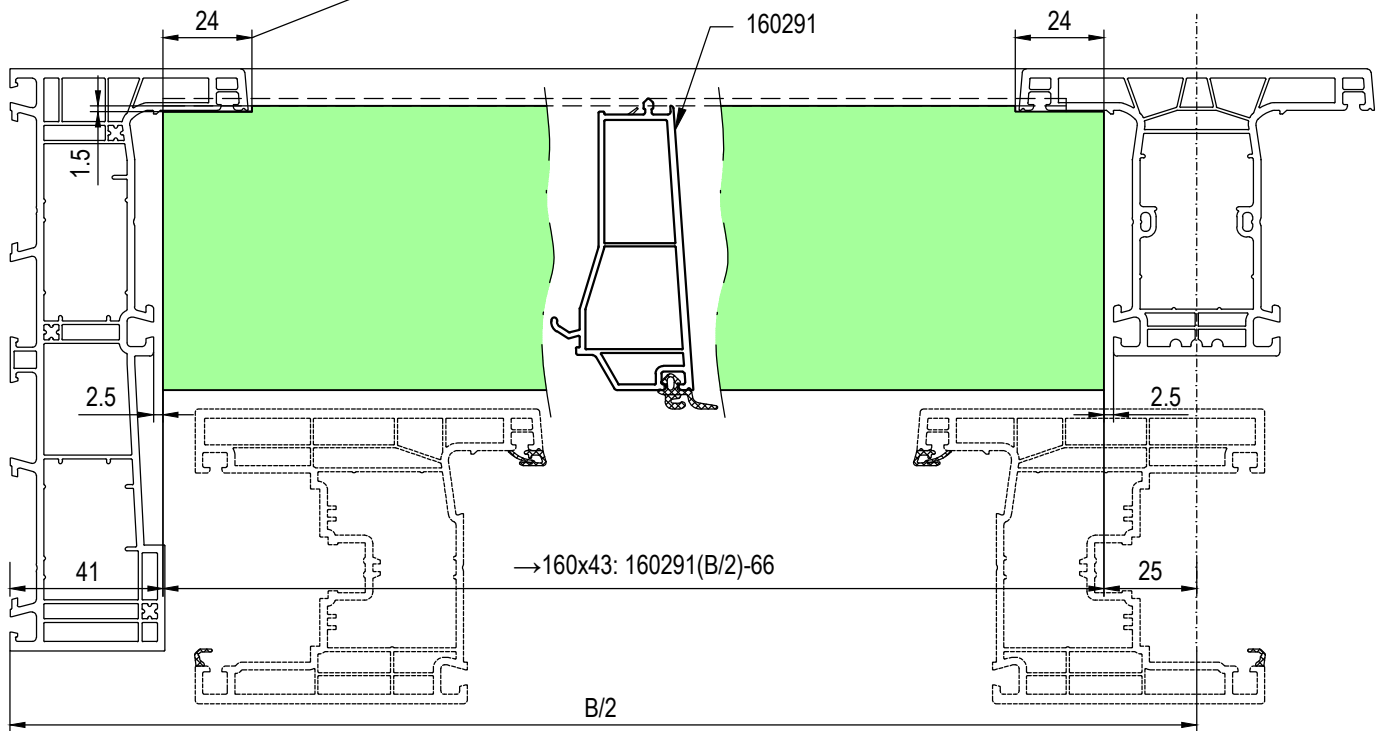
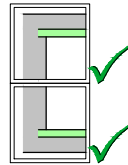
Milling measures + sawing measures



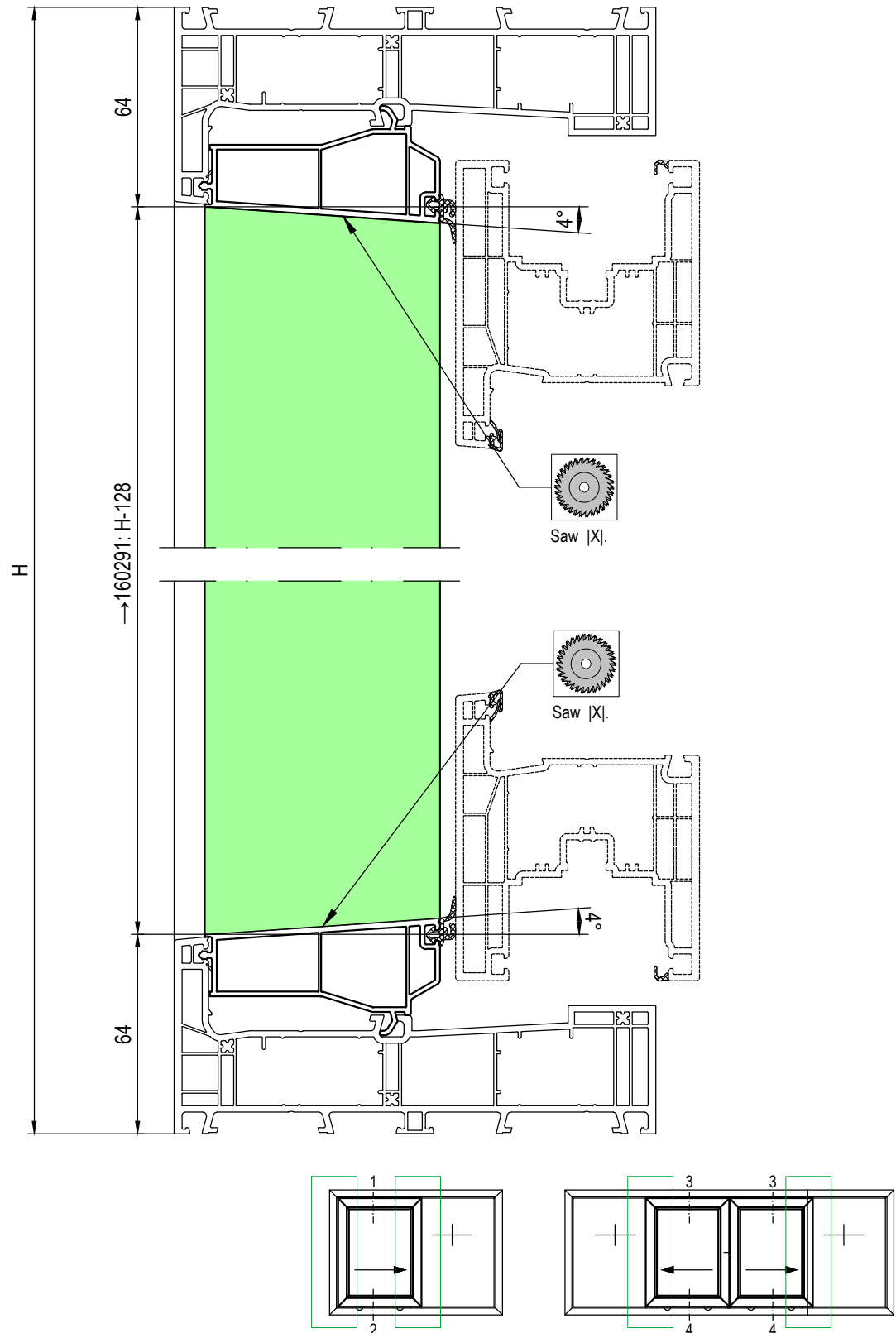
Milling measures + sawing measures



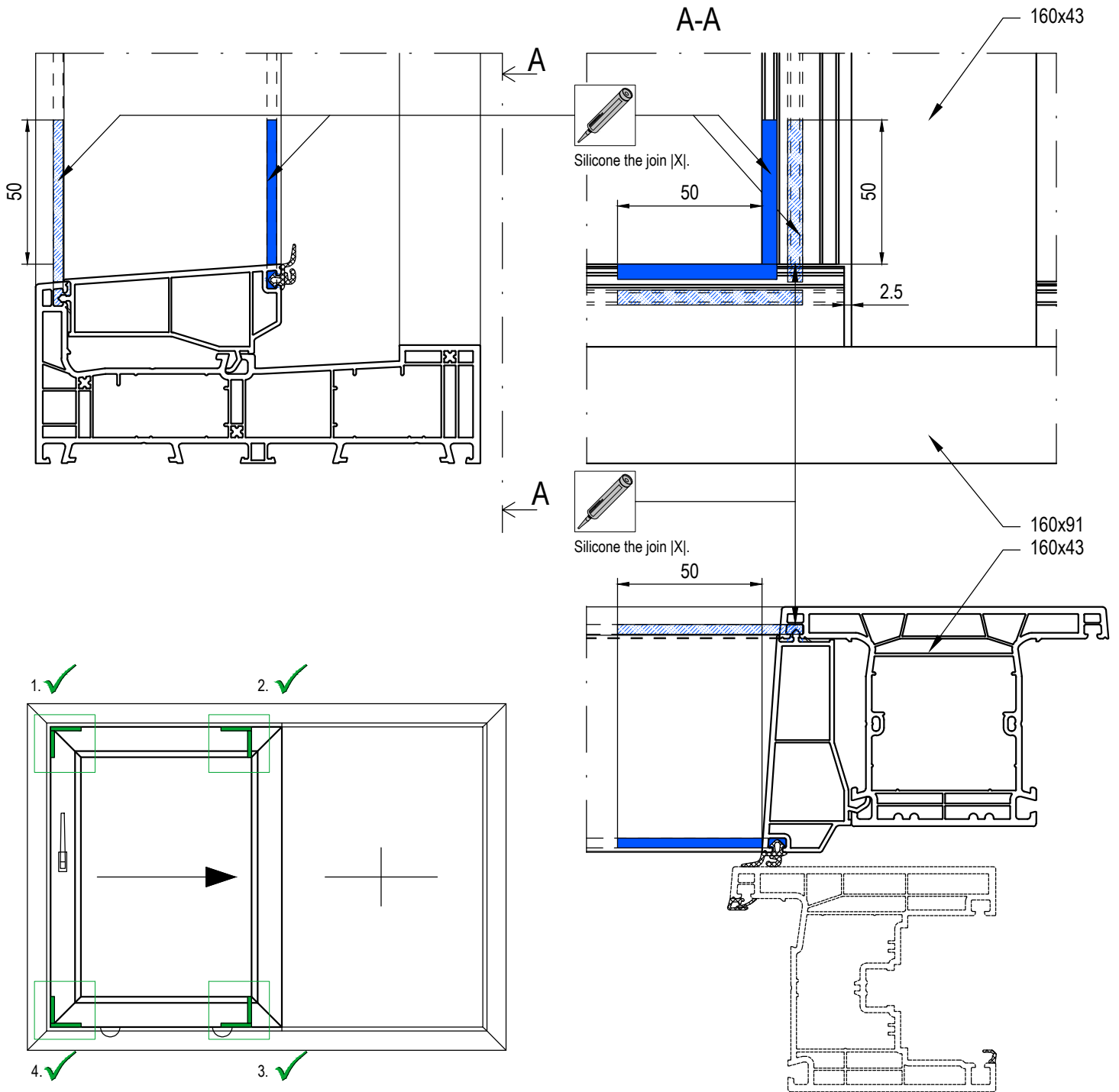
■ 160291 Cover profile



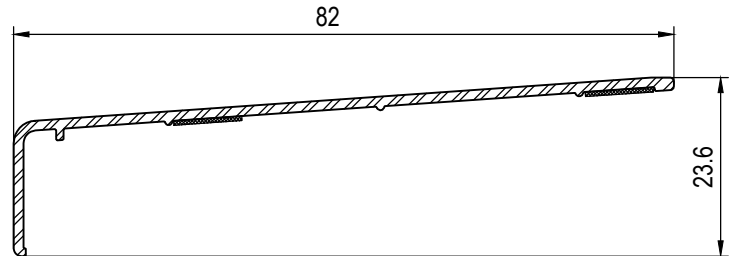
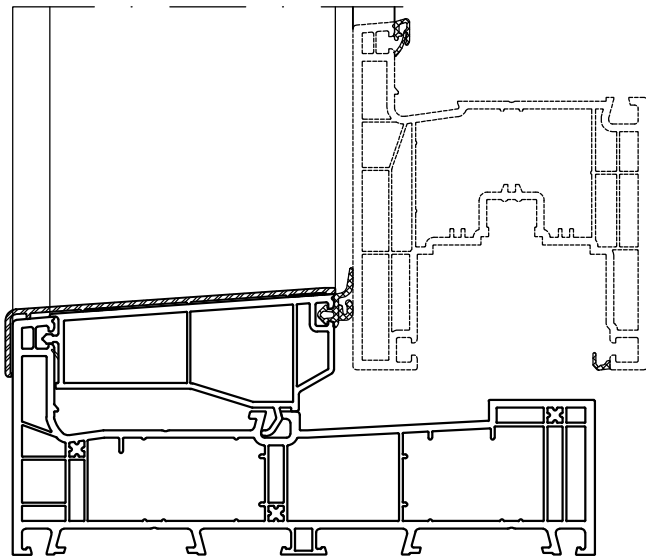
Sawing measures



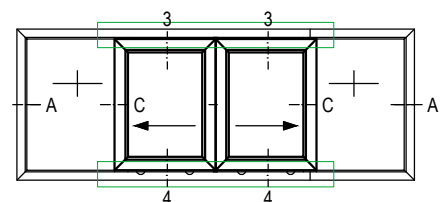
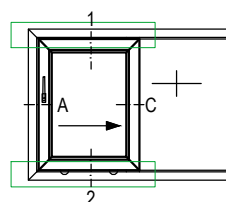
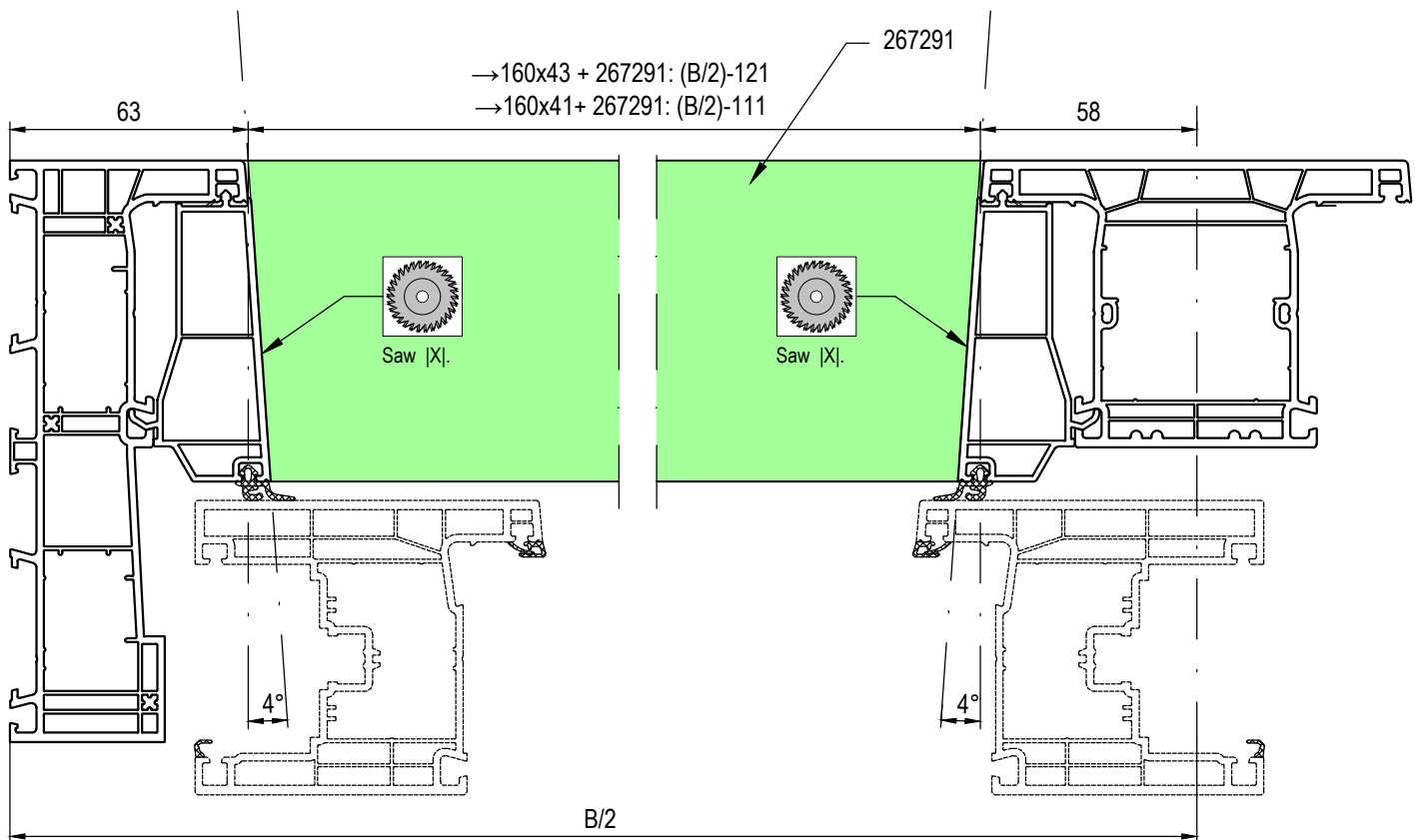
Siliconeing measures



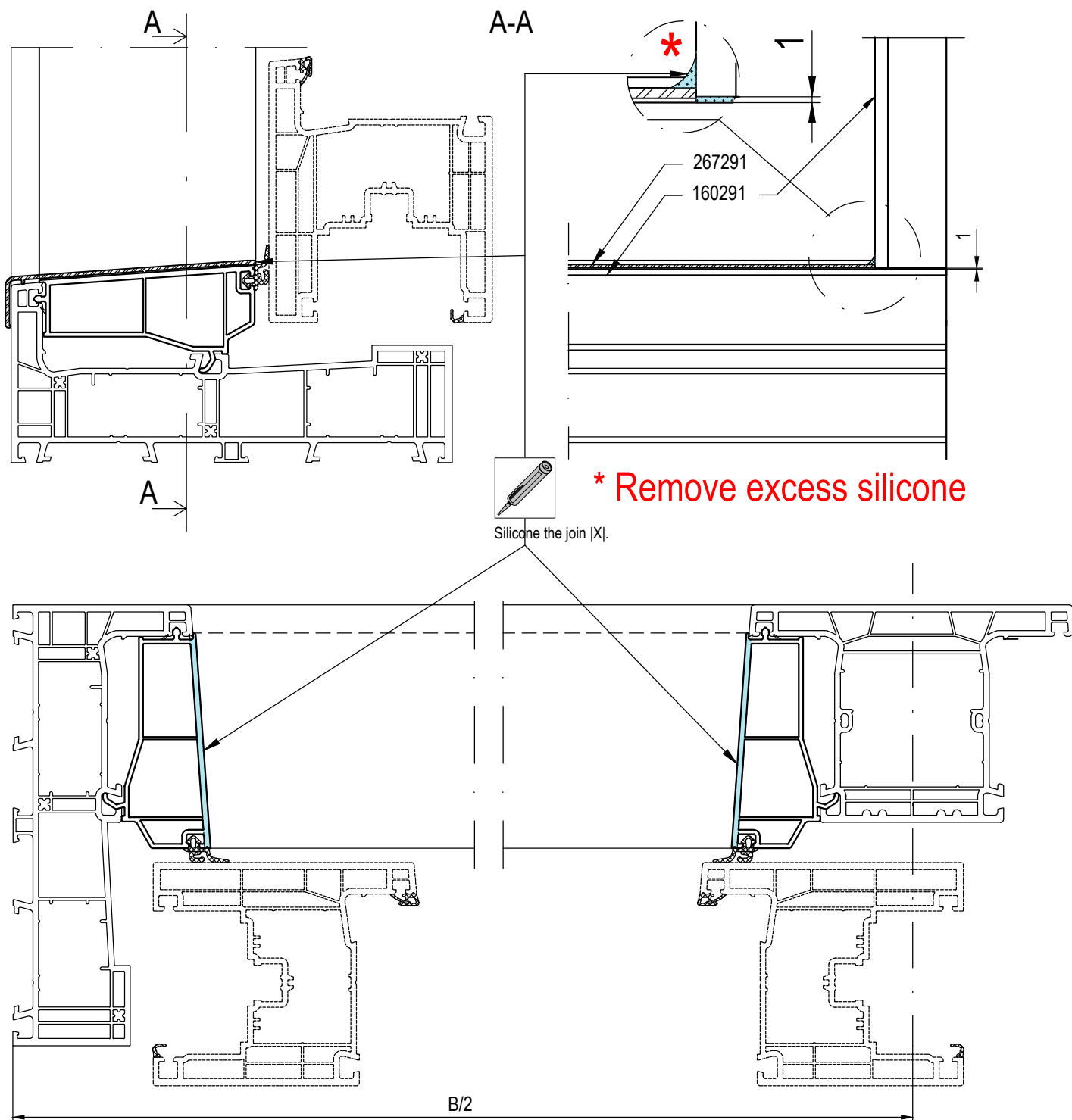
Sawing measures



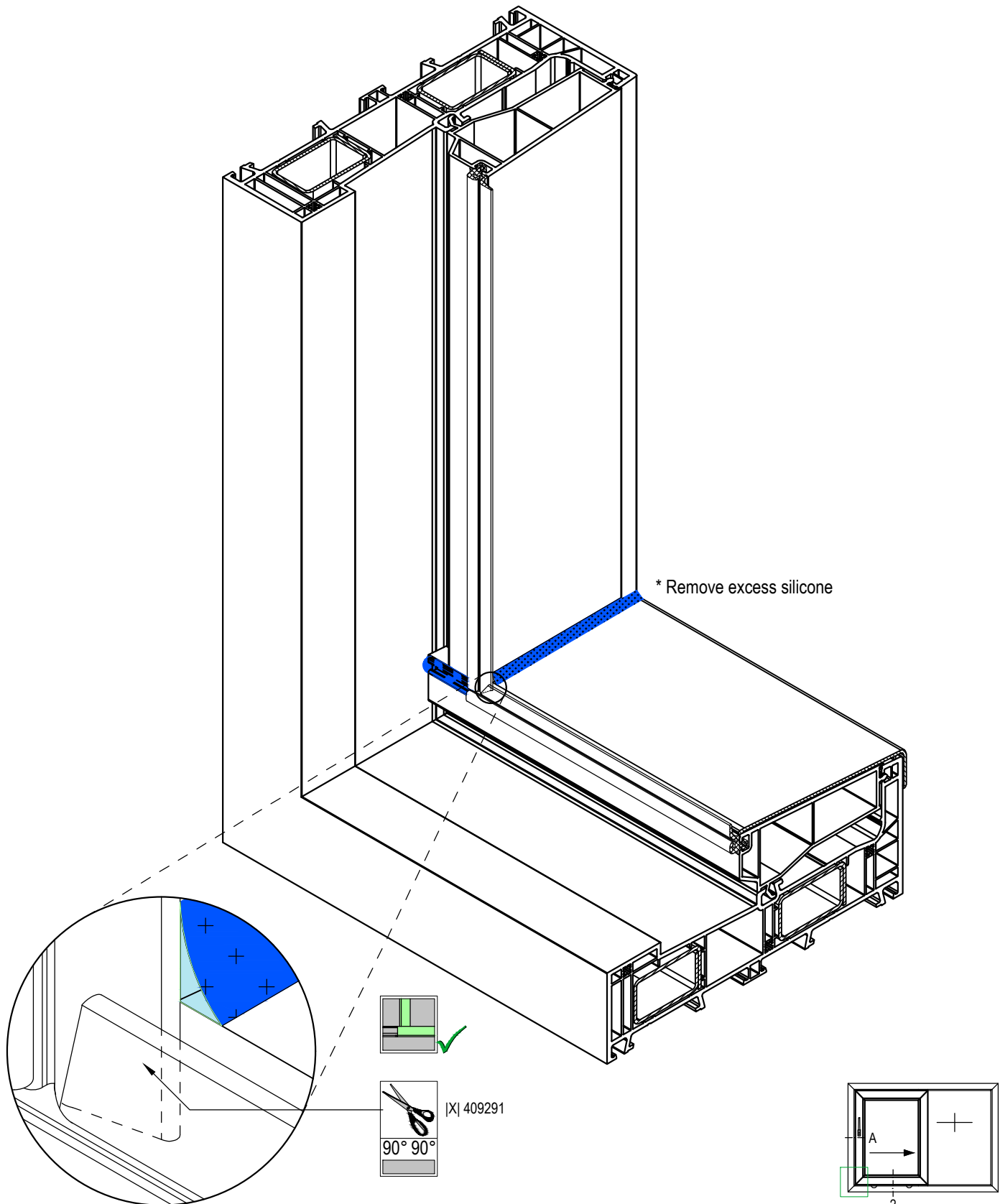
■ 267291 Aluminium step protection (optional)
->160291



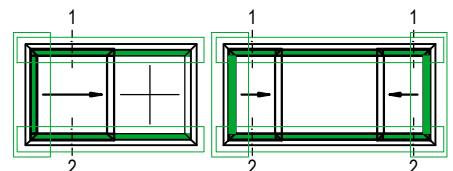
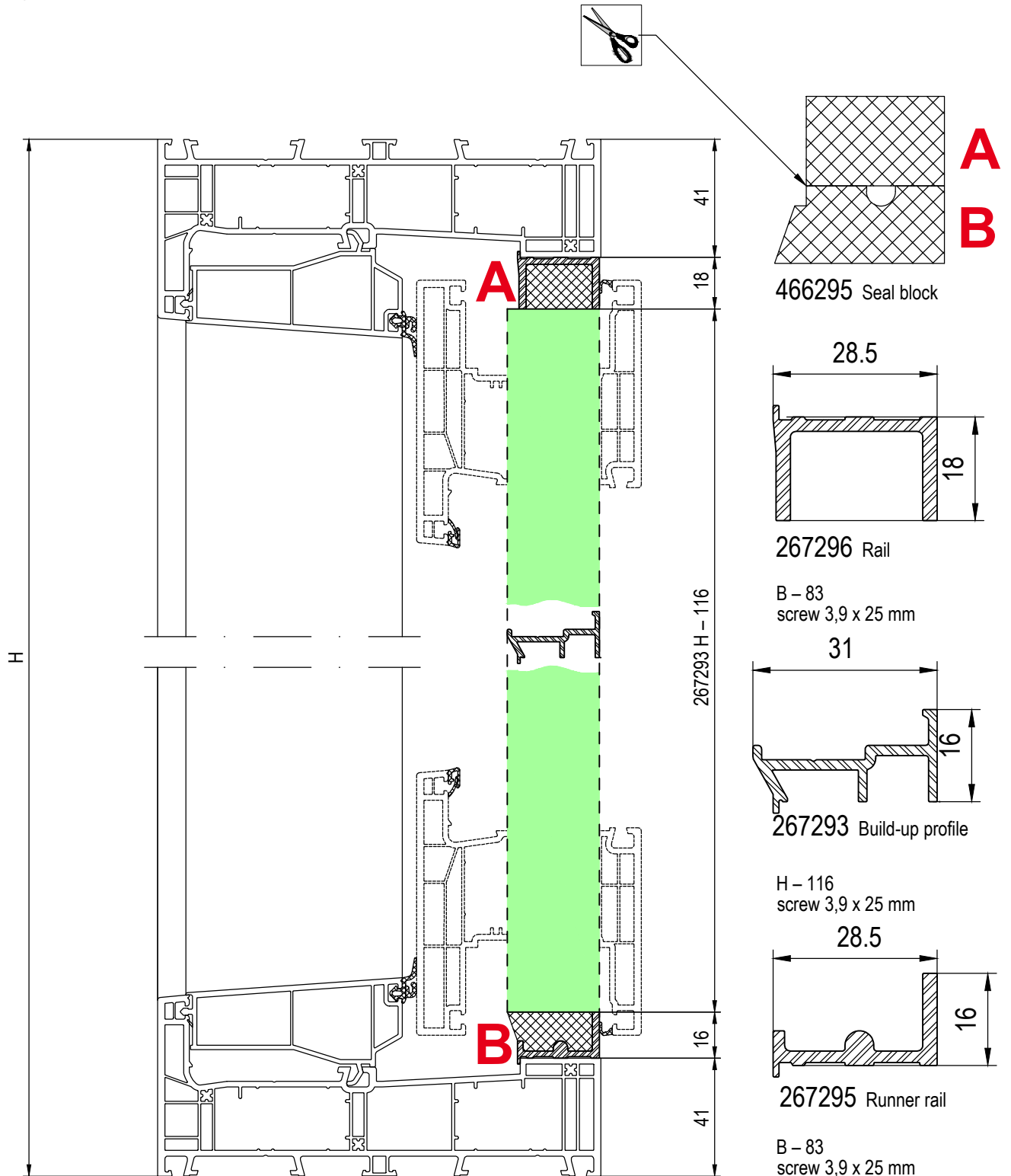
Siliconeing measures



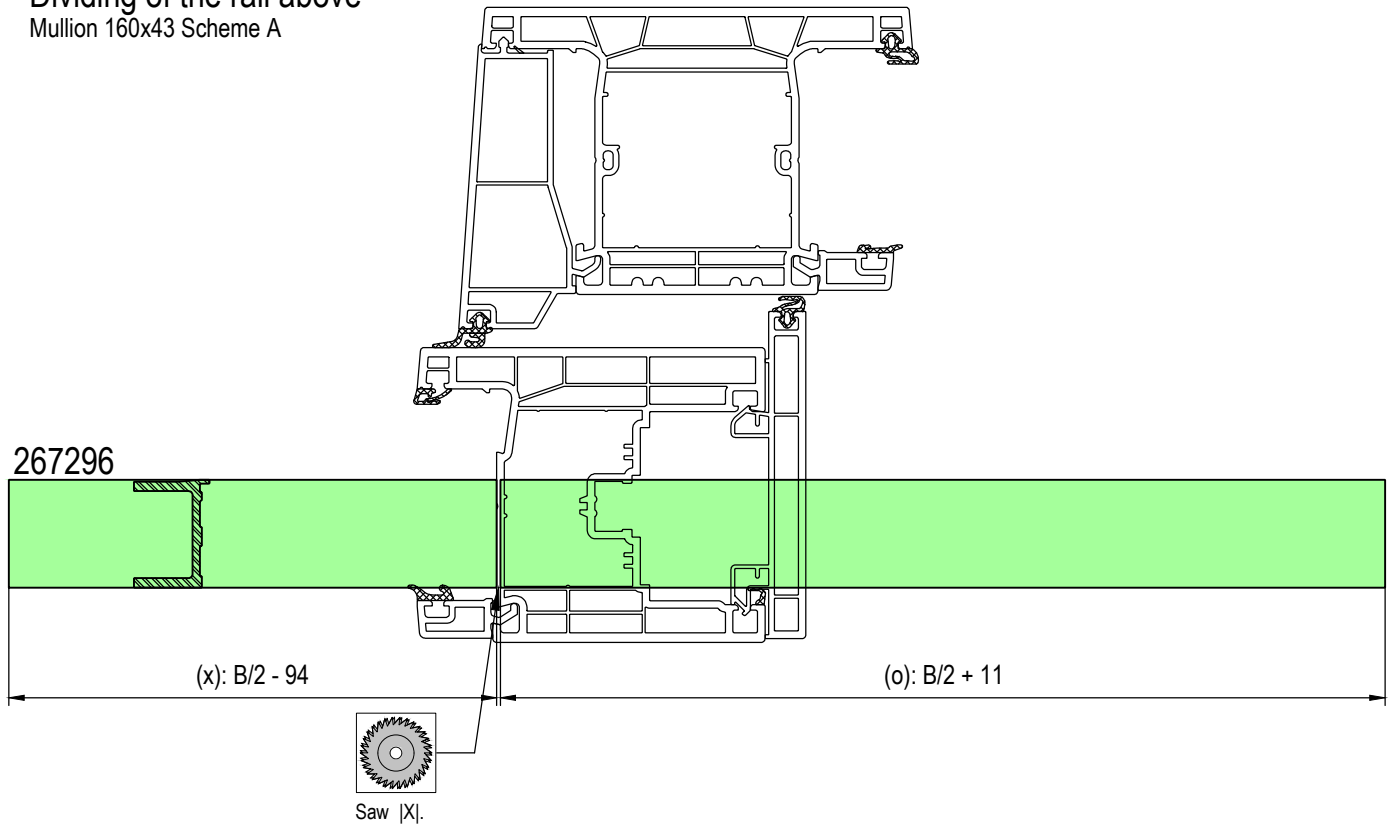
Glueing measures + siliconeing measures



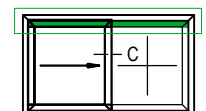
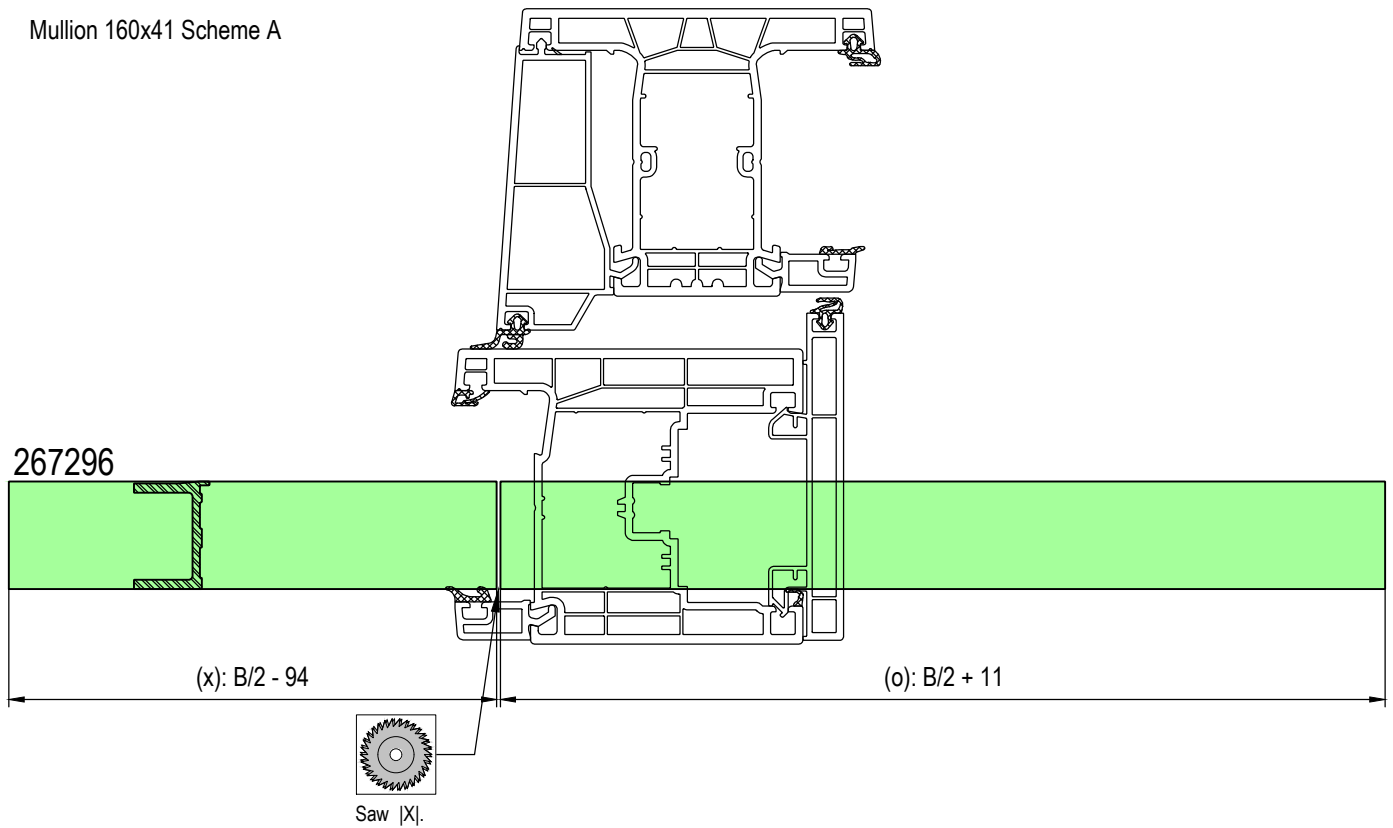
Sawing measures



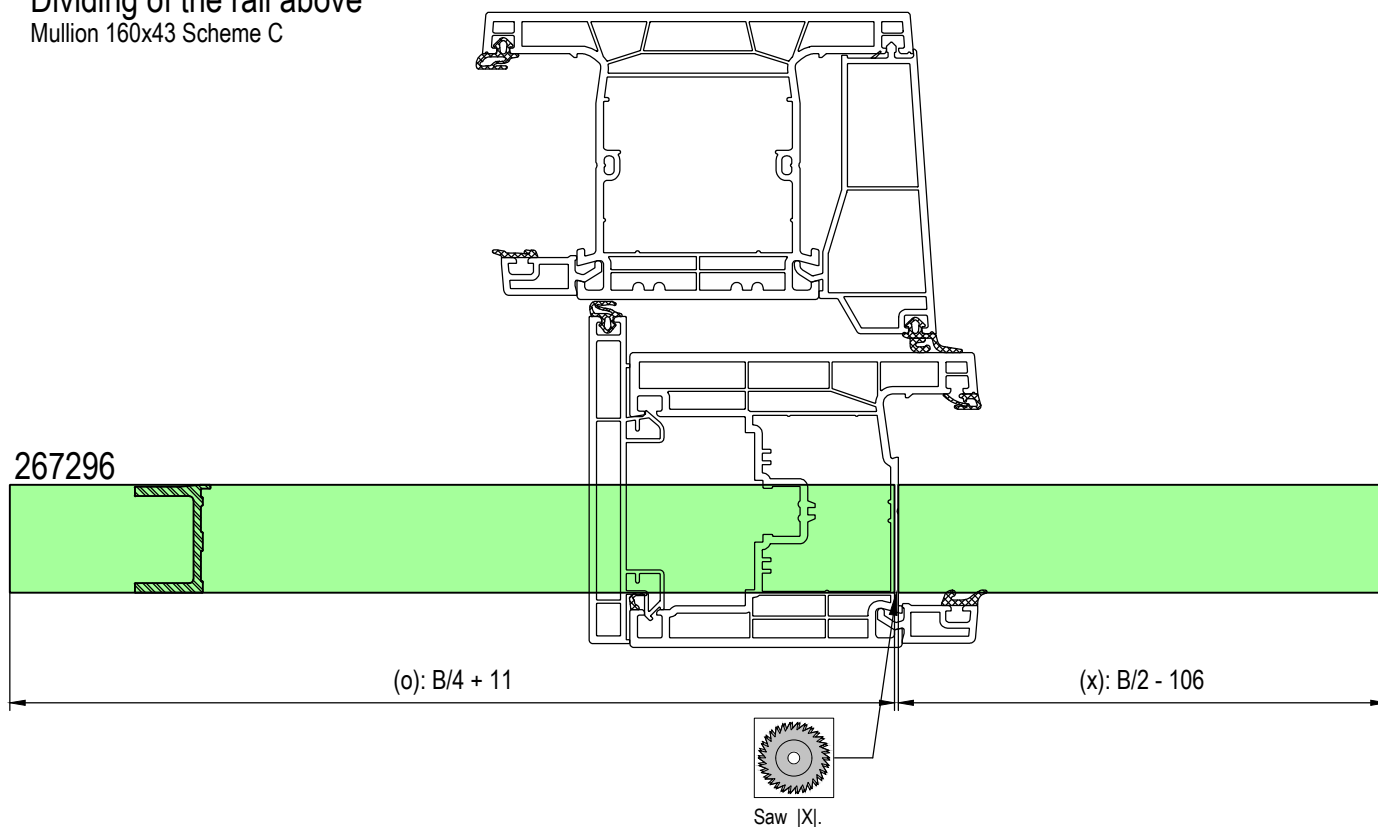
Dividing of the rail above
Mullion 160x43 Scheme A



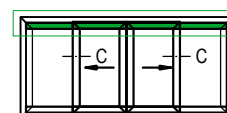
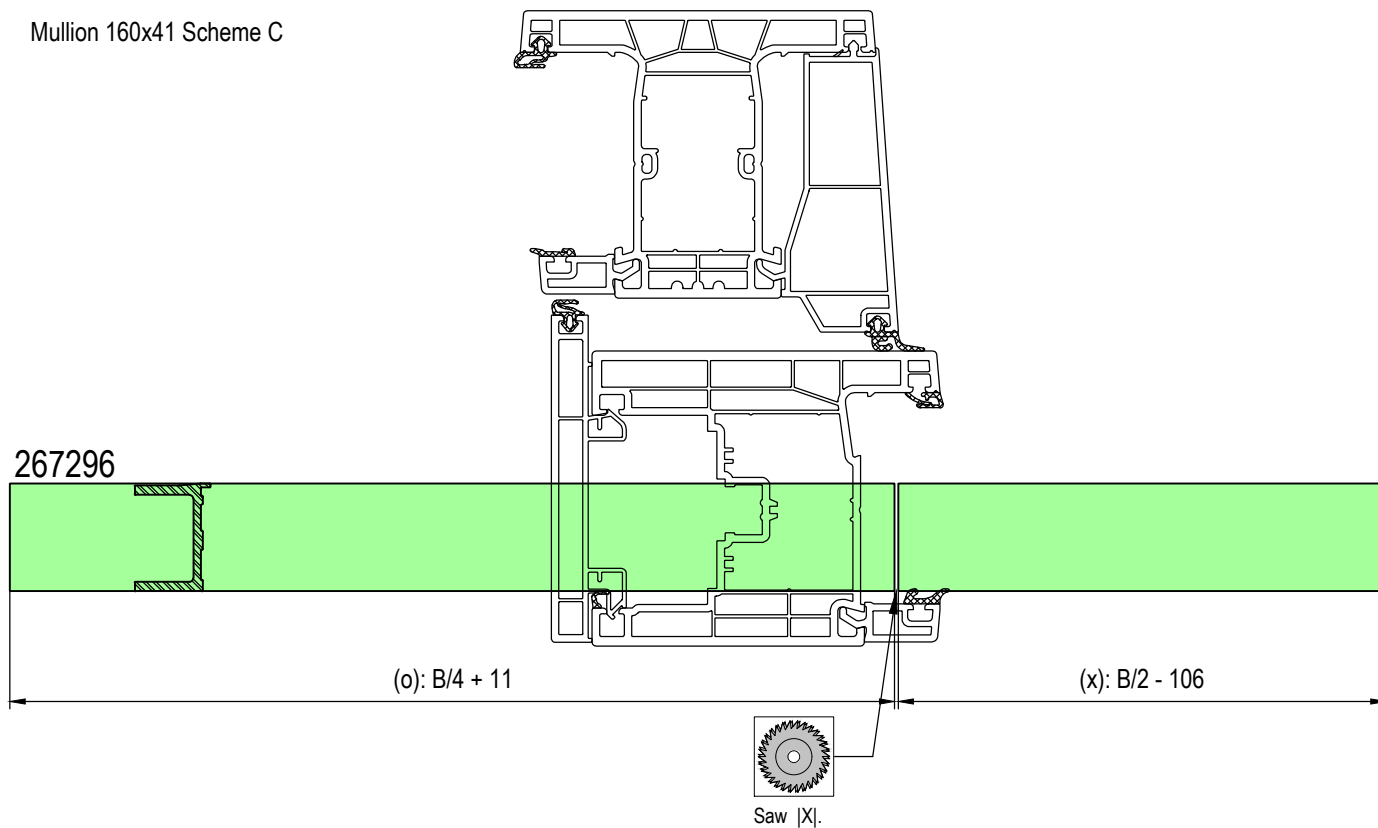
Mullion 160x41 Scheme A



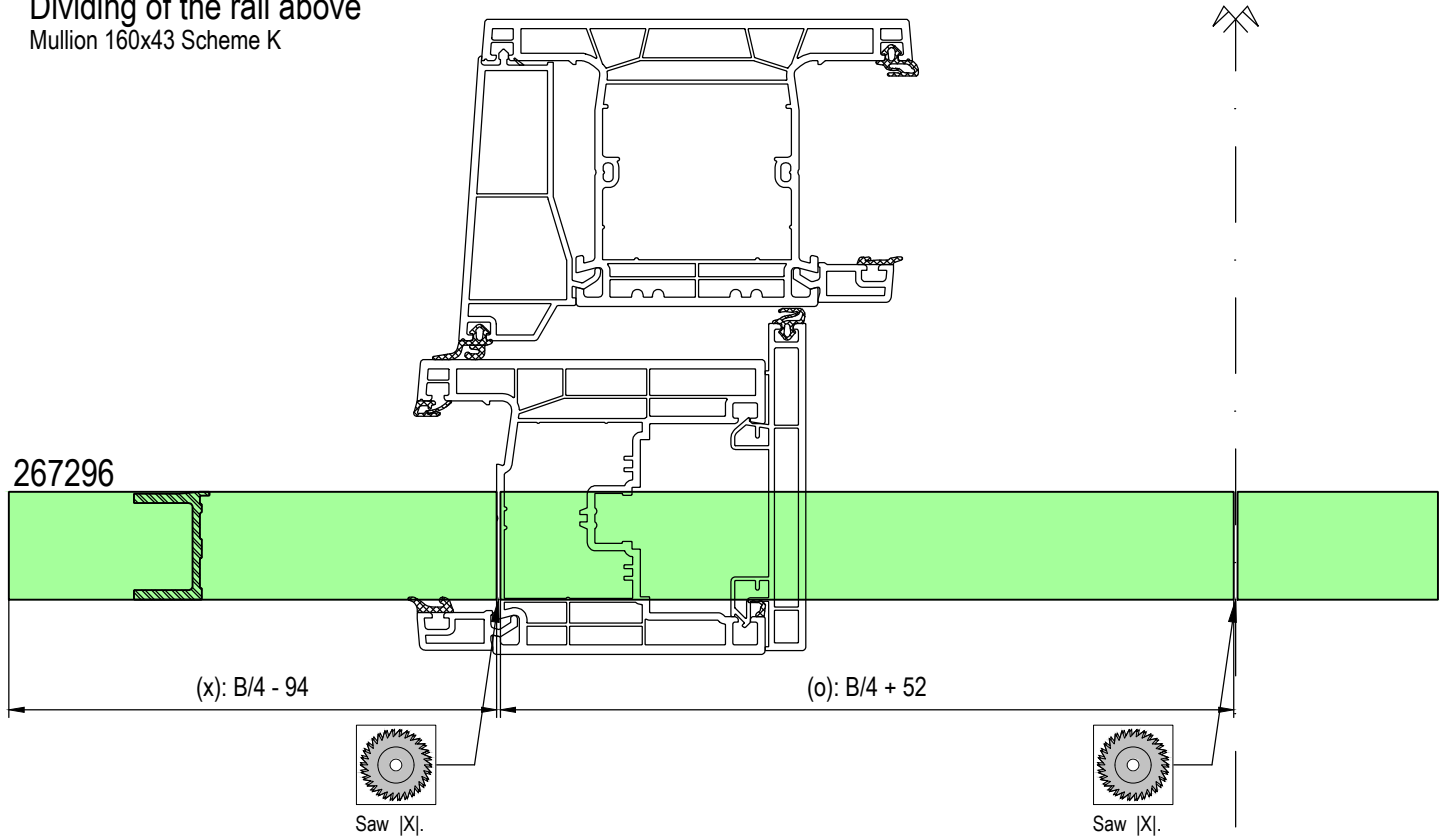
Dividing of the rail above
Mullion 160x43 Scheme C



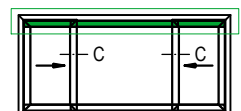
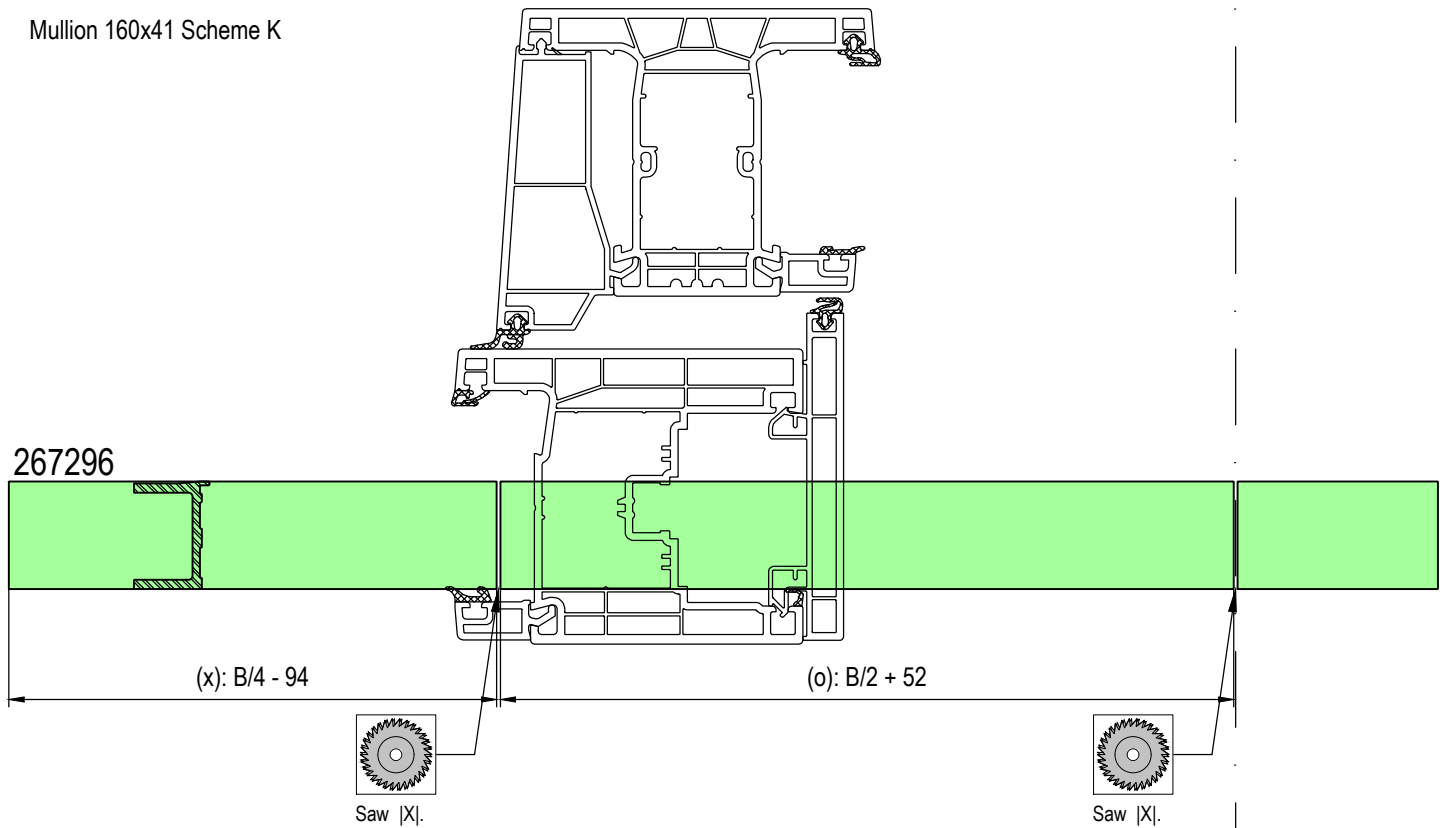
Mullion 160x41 Scheme C

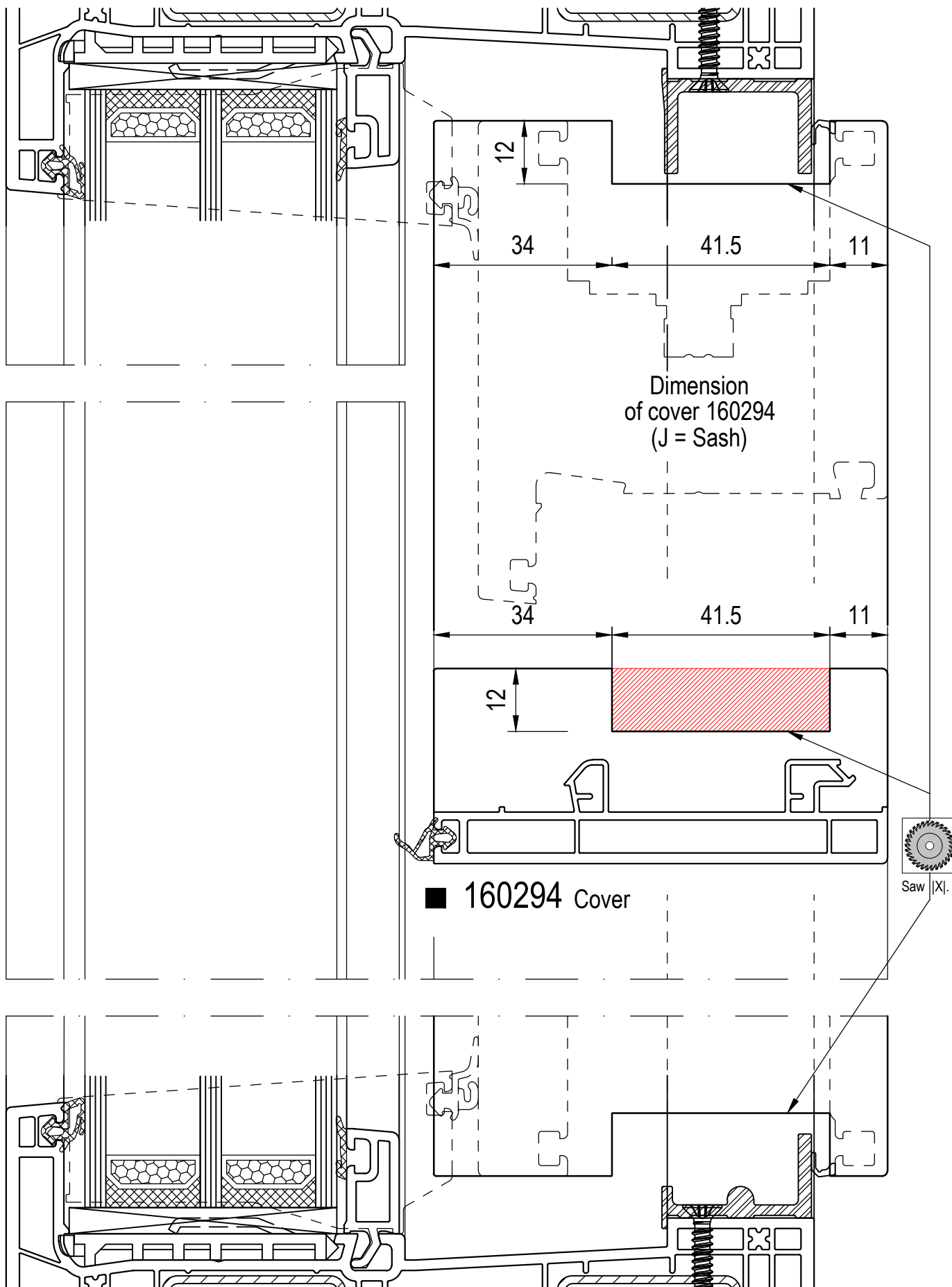


Dividing of the rail above
Mullion 160x43 Scheme K



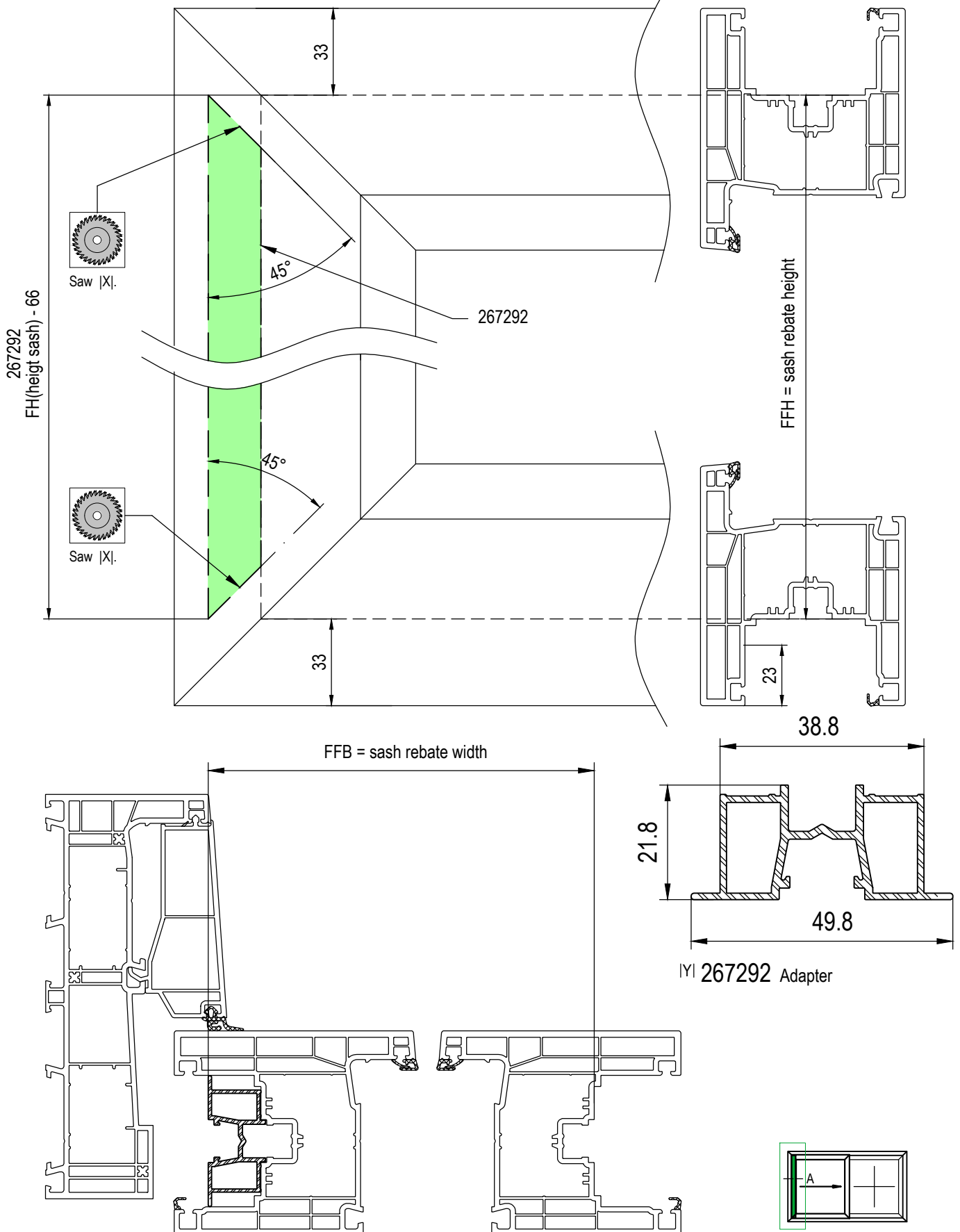
Mullion 160x41 Scheme K





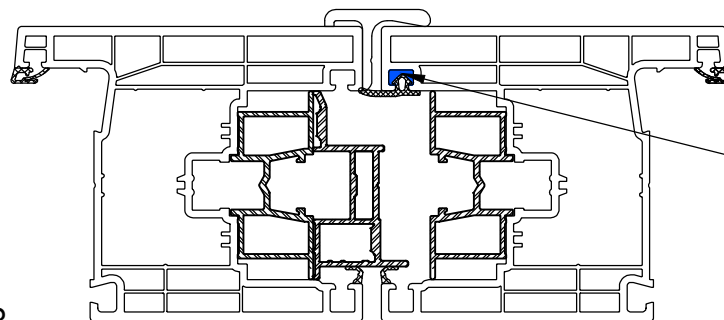
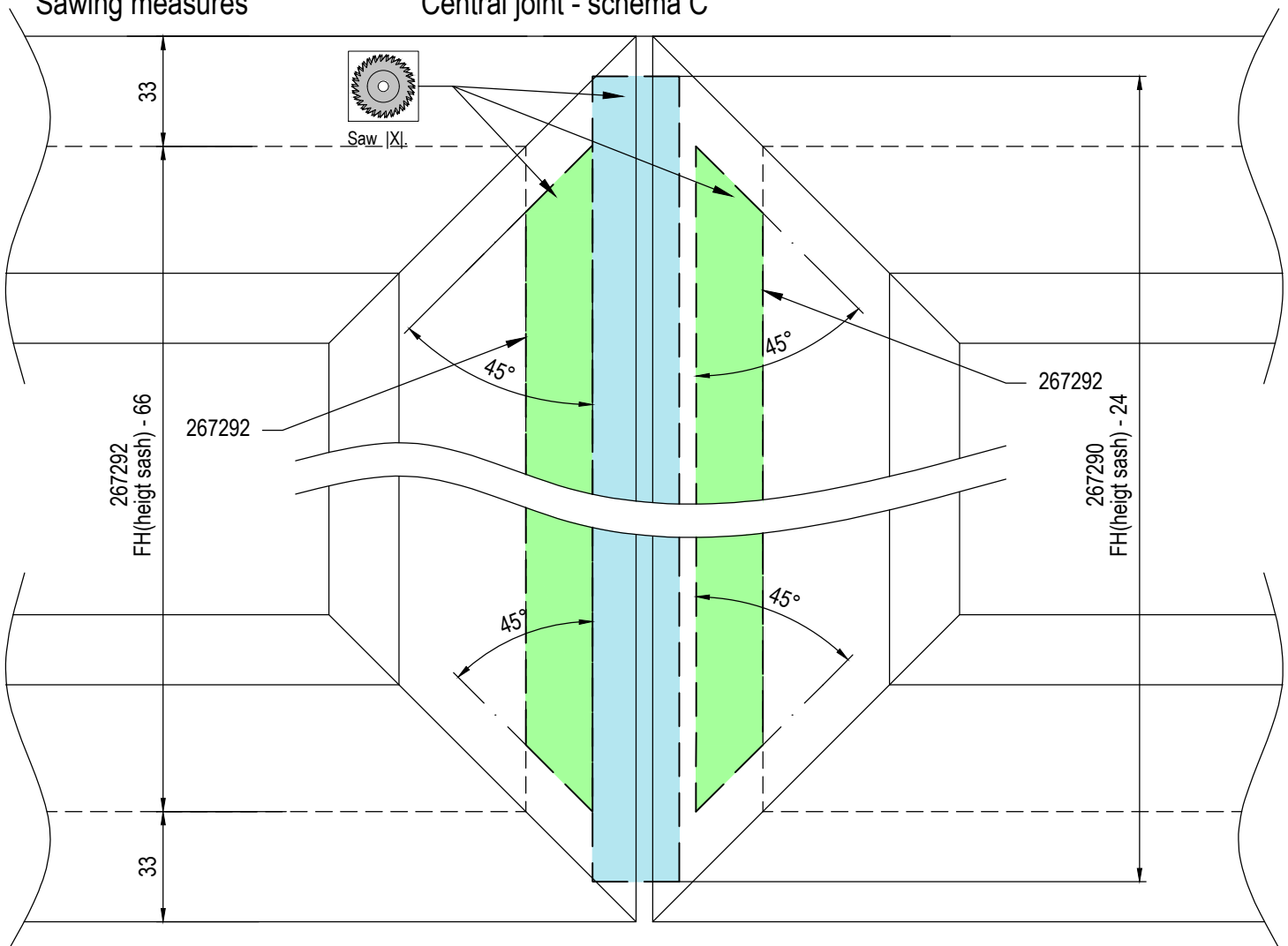
Seeing measures

Sliding sash, inside - schema A

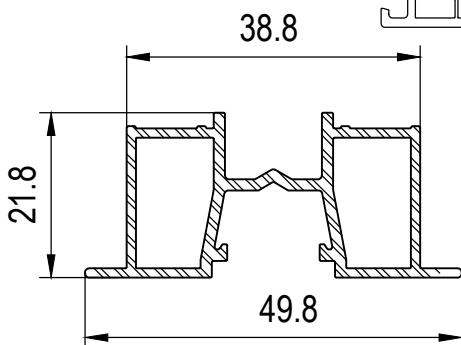


Sawing measures

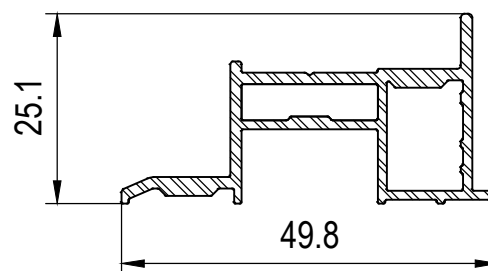
Central joint - schema C



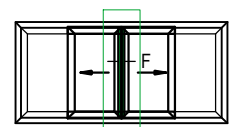
Silicone 50 mm on top and bottom



YI 267292 Adapter

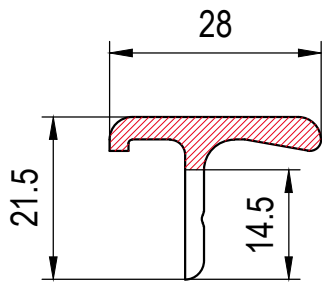
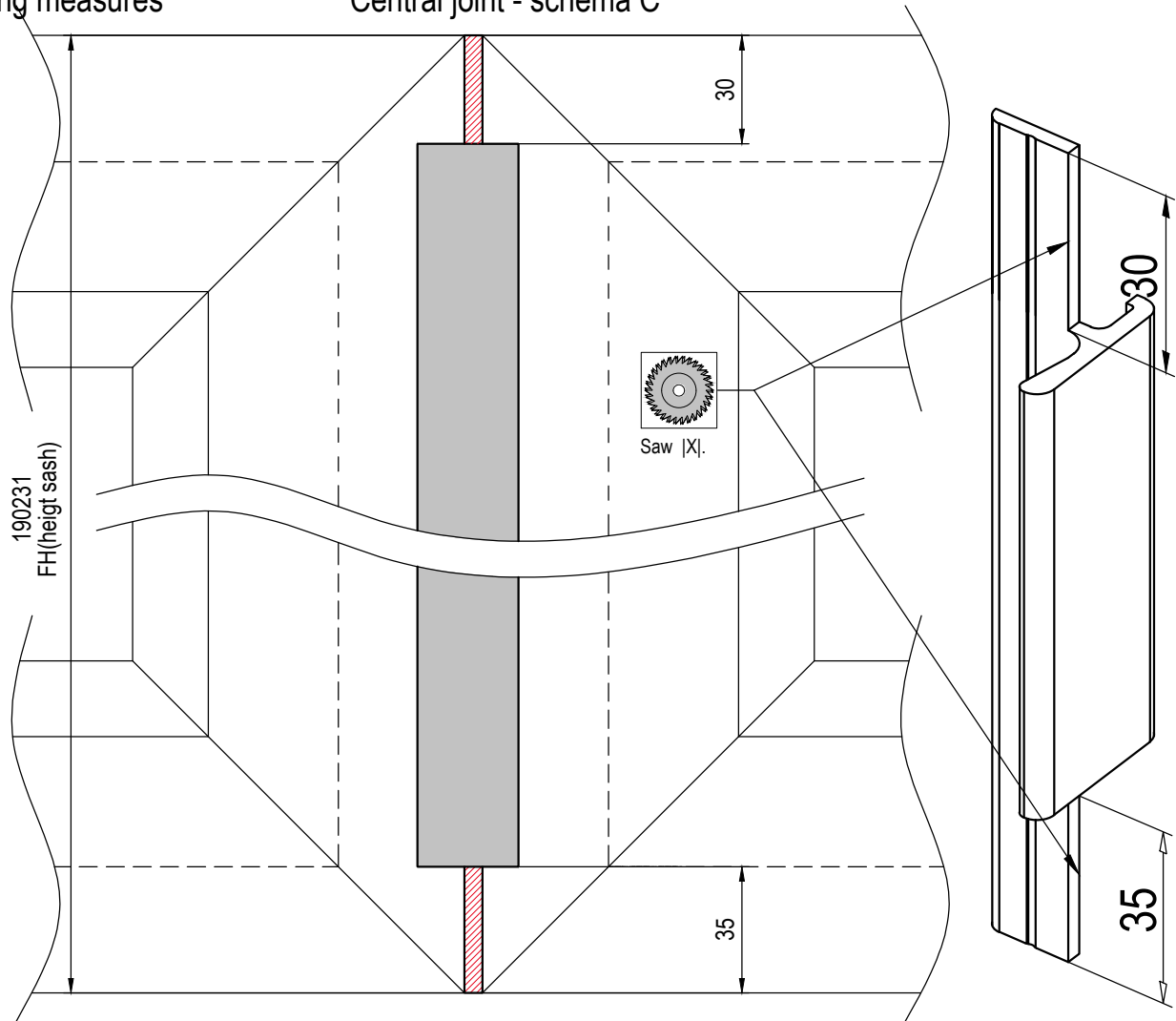


YI 267290 Adapter



Sawing measures

Central joint - schema C



■ 190231 Overlay profile
-> Scheme C

