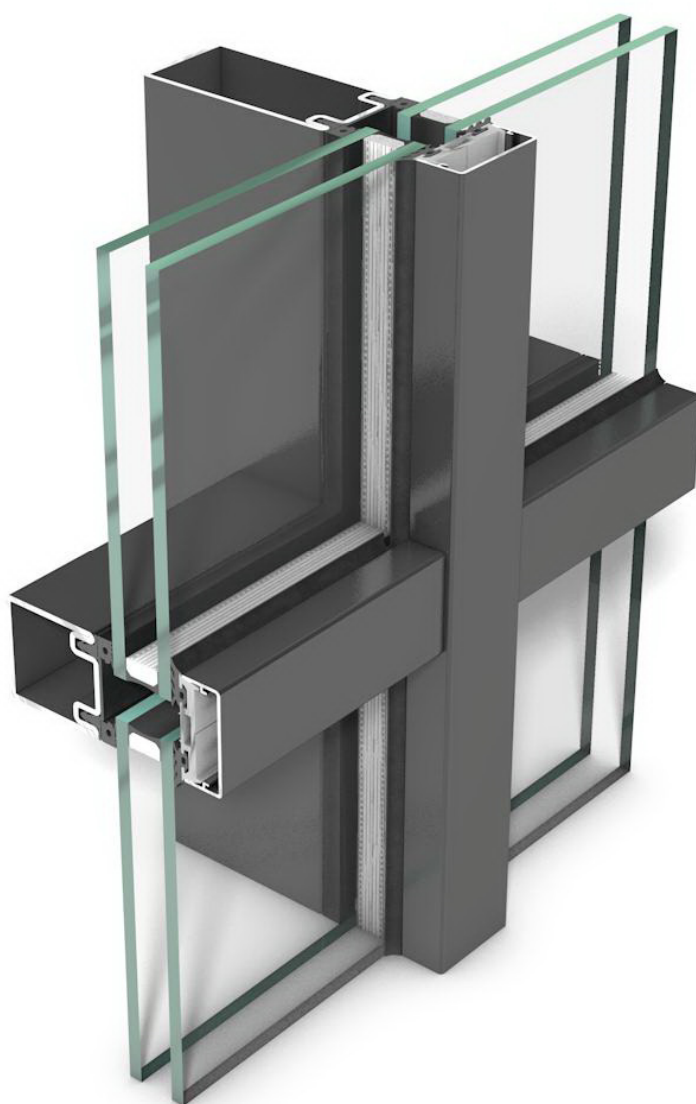




rp tec 45



RP-ISO-hermetic 45 N facade system planning and processing manual



- E.E. and we reserve the right to effect modification -

General information

RP Technik GmbH Profilsysteme supplies systems for the metal construction industry.

RP Systems are designed to be handled by specialist firms familiar with the generally accepted guidelines and rules of metal construction technology and glazing and who can be expected to be familiar with the applicable standards, specifications, and industry best practice.

For coatings, including pre-treatment, the procedures recommended by the coating industry must be observed. Details regarding possible applications and conditions should be discussed with the coating plant before coating.

All technical data, advice and recommendations are voluntary services and intended to provide without obligation proposals to planners and fabricators. The user must, however, examine and decide for himself whether the proposed products fully meet all requirements for his intended application in each individual case.

RP products are sold under registered trademark. They also form component parts of tested and approved assemblies. In the case of loss or damage resulting from the use of other products not only does the company deny all liability, but also all testing certificates applicable to the construction lose their validity.

With systems from stainless steel please observe that not all accessory parts are made from stainless steel. For use in highly corrosive environment these components must be protected by applying grease.

Special solutions must be carried out with great care since these are not covered by system tests. Equally, workshop made components must be controlled for completeness and function before installation.

Every care has been taken to ensure that the data, explanations and illustrations in the document is accurate and whilst the publishers would be grateful to learn of any error, they regret they can accept no responsibility. Nevertheless mistakes cannot be entirely excluded. For the use of the suggestions, drawings and data we cannot take any responsibility or liability. Please note also our sales and delivery terms.

Because of printing technology and/or illustration reasons, drawings may not always correspond to the stated scales and norm sizes.

RP Technik GmbH Profilsysteme reserves the right to undertake technical modifications without prior notice.

The publication of new documentation renders all previous versions invalid.

Edition 07-2007

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Steel - slim line - high strength

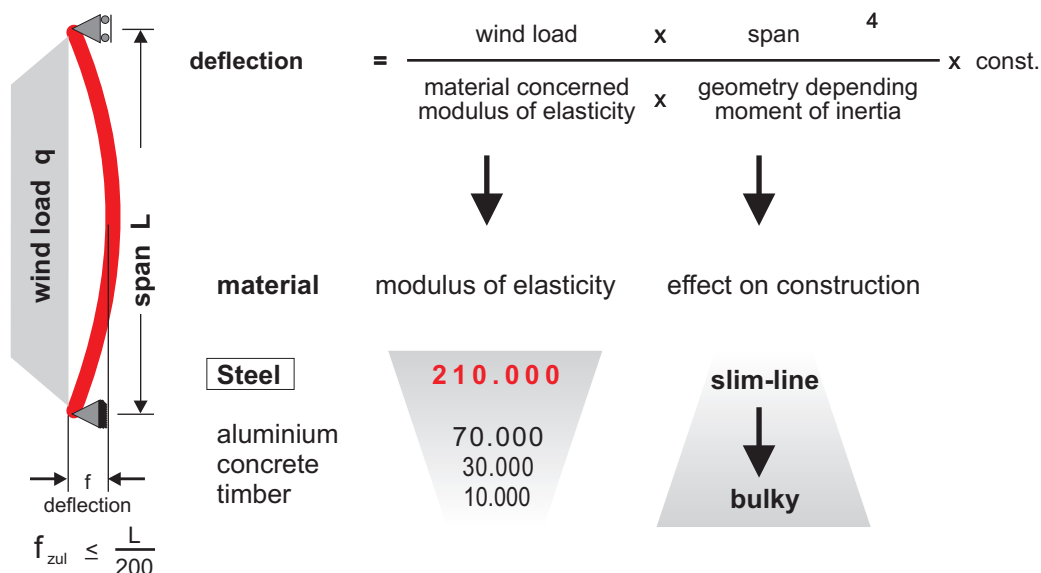
Its special properties make steel an ideal and at the same time environmentally friendly material.

Its high load capacity, durability, fire resistance properties and the maximum protection it offers against intrusion and vandalism are positive advantages for every-day use.

Slim-line constructions in steel and glass, the basis of modern architecture, never fail to impress.

This is why steel is preferred more and more to other materials by planning authorities and tender panels.

Steel makes it possible - Steel : the material of the future.



Ausschreibungstext

Leistungsbeschreibung für
RP-ISO-hermetic 45 N,
Thermisch getrenntes Fassadensystem

Stahl-Glas-Fassade als selbsttragende Pfosten-Riegel-Konstruktion, thermisch getrennt

Baurichtmass, BxH in mm:
Glasfassade bestehend aus Rasterfeldern, davon festverglast*,
..... mit Fenster*, mit Tür*
Herstellung gem. Zeichnung Nr.:
Einbauort:
Erzeugnis: Fassadensystem **RP-ISO-hermetic 45N** oder gleichwertig

Ausführung:

Pfosten und Riegel: Stahlprofile mit rechteckigem Querschnitt, beidseitig bandverzinkt,
Ansichtsbreite: 45 mm,
Profilbautiefe in mm: , Wanddicke: 2,5 mm
gem. Statik, 45 / 67,5 / 90 / 112,5 / 135 / 147 / 150 mm

Konstruktion mit durchgehenden vertikalen Pfosten und horizontal gestoßenen Riegeln,
.... als Steck-Schiebe-Verbindung, Riegelbefestigung über Bolzen, selbstverriegelnd,
.... als Schraub-Steck-Verbindung, Riegelbefestigung über Bolzen, Elementbauweise geschraubt,
.... als Schweißverbindung
Erzeugnis: Fassadensystem **RP-ISO-hermetic 45N** oder gleichwertig

Verglasung:

Glasdicke in mm:
Falztiefe für unbeschränkten Glaseinsatz 20 mm
Glastyp:
Verschraubung der Glashalteleisten erfolgt mit in Andruckdistanzhülsen
geführten Bohrschrauben mit definierten Andruck.

Abdichtung:

zwei Dichtungsebenen:
außen: in Glashalteleisten geführte EPDM-Systemdichtungen, Endabdichtungen und
Kreuzstoßüberdeckungen.
innen: vollflächige, in Nuten standsicher geführte EPDM-Dichtungen als
2. wasserführende Ebene, kaskadenförmig überlappt.

Oberflächenbehandlung:

Nassbeschichtung* / Pulverbeschichtung*
Farbton, innen: RAL Farbton, außen: RAL

Technische Anforderungen:

Luftdurchlässigkeit, DIN EN 12152*: Klasse..... (..... Pa)
geprüfte Anforderung: Klasse AE (750 Pa)
Schlagregendichtheit, DIN EN 12154*: Klasse..... (..... Pa), bzw. (..... Pa)
geprüfte Anforderung: Klasse R7 (600 Pa), bzw. RE 1200 (1200 Pa)
Widerstandsfähigkeit bei Windlast, DIN EN 13116*: p_{max} Pa, Sicherheitsprüfung bis Pa
geprüfte Anforderung: p_{max} 1375 Pa, Sicherheitsprüfung bis 2062 Pa
Pendelschlagversuch, DIN EN 14019*: Klasse / (Fallhöhe mm)
geprüfte Anforderung: Klasse E5 / I5 (Fallhöhe 950 mm)
Wärmeschutz, DIN EN ISO 10077-2*: U_f bis zu W/m²K
geprüfte Anforderung: U_f bis zu 1,4 W/m²K
Fassadensystem angearbeitet, farbbeschichtet liefern;
.... alle Pfosten setzen, Riegel durch Stecken und Schieben montieren*;
.... Elemente mit geschraubter Pfosten-Riegel-Verbindung*;
.... Elemente mit geschweißter Pfosten-Riegel-Verbindung*;
Verglasung und Füllelemente* einsetzen.

* Nichtzutreffendes bitte streichen

- E.E. and we reserve the right to effect modification -

Advantages at a glance

The facade system RP-ISO-hermetic 45N, with a face width of only **45 mm**, sets an architectural highlight on constructions. Due to its excellent statical properties, minimum workshop processing, single colour coating of transom and mullion profiles per bar, as well as simple mechanical assembly, it is also a highly economical system.

1. Advantage of a plug and push connection - no welding, just push

Connection of transom to mullion is done by a sliding transom holder which is located in the transom. By moving the glazing support the bolts on the transom holder grip into the prefabricated holes in the mullion. The pressure and connecting plate secures a stable connection of transom to mullion and mechanically fixes overlapping seals.

2. Advantage of screw connection - large units without welding

Mullion and transom are connected by screwing the transom holder to the mullion

3. Welding connection of mullion - transom

The RP-ISO-hermetic 45N system can also be assembled by welding with subsequent colour finishing on site.

4. Pane sizes

Large glass panes up to 600 kilos can be taken without additional measures, keeping the rebate depth of 20 mm.

With plug and screw connection pane weights of up to 200 kilos can be taken.

5. System security - tightness

The high system security against water penetration is given by the back sealing level which covers the profile and is guided in the profile grooves.

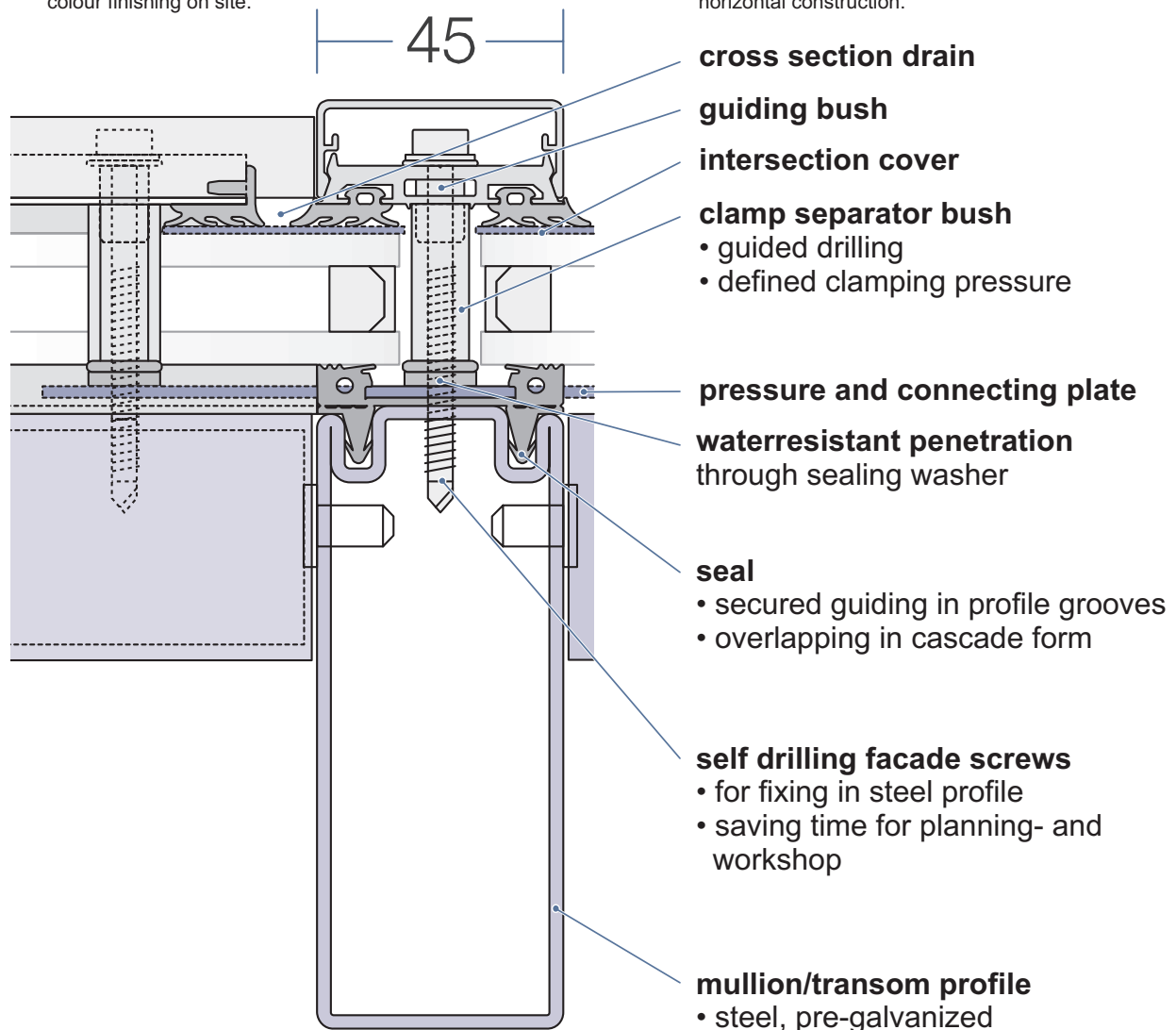
The system is tested with the european facade norm DIN EN 13830 and CE certified (test report 108 29688, ift Rosenheim).

6. Thermal insulation

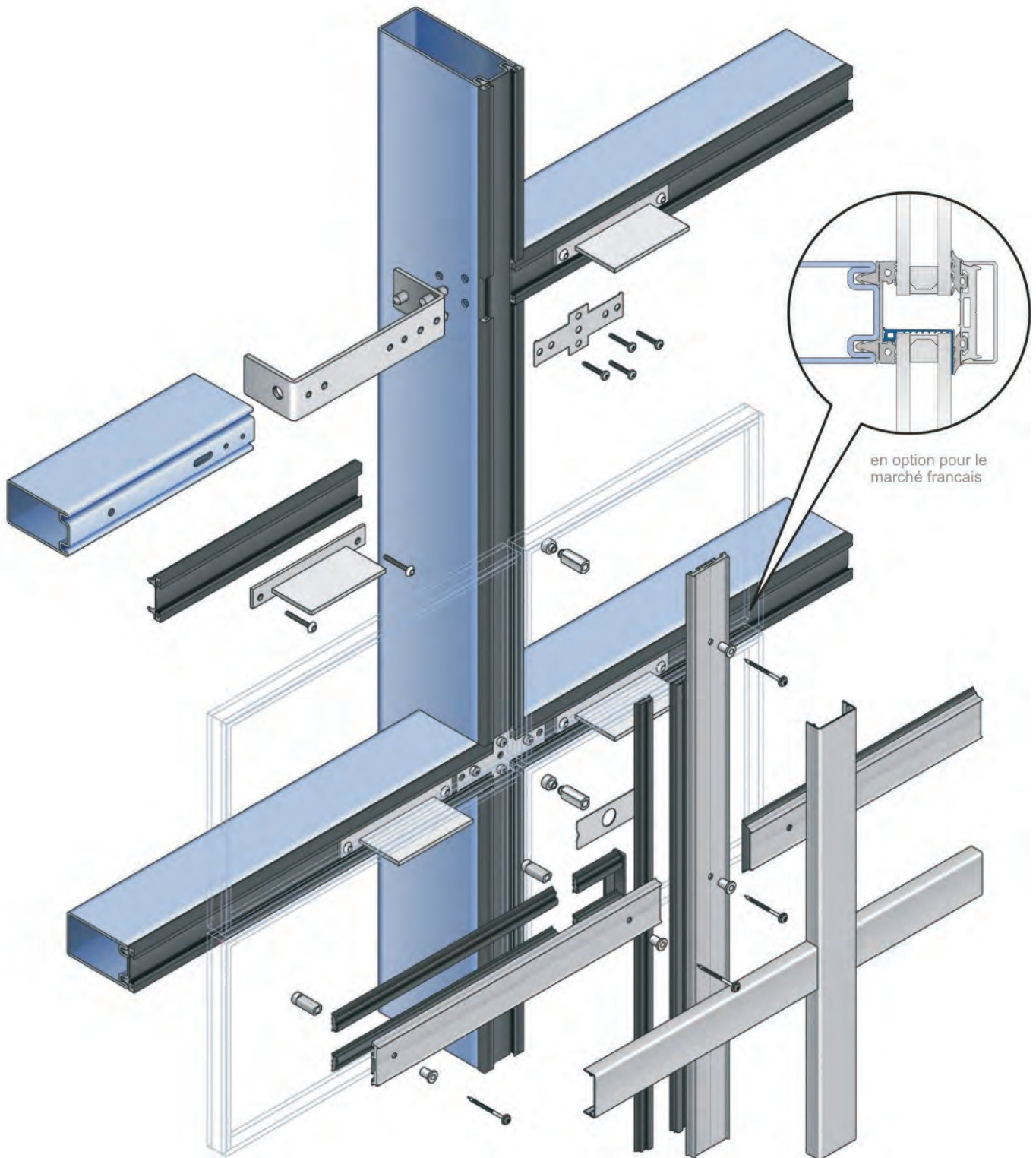
$U_r = 1,4 \text{ W/m}^2\text{K}$

7. Fire protection

G30 (E30) and F30 (Ei30) for vertical and horizontal construction.

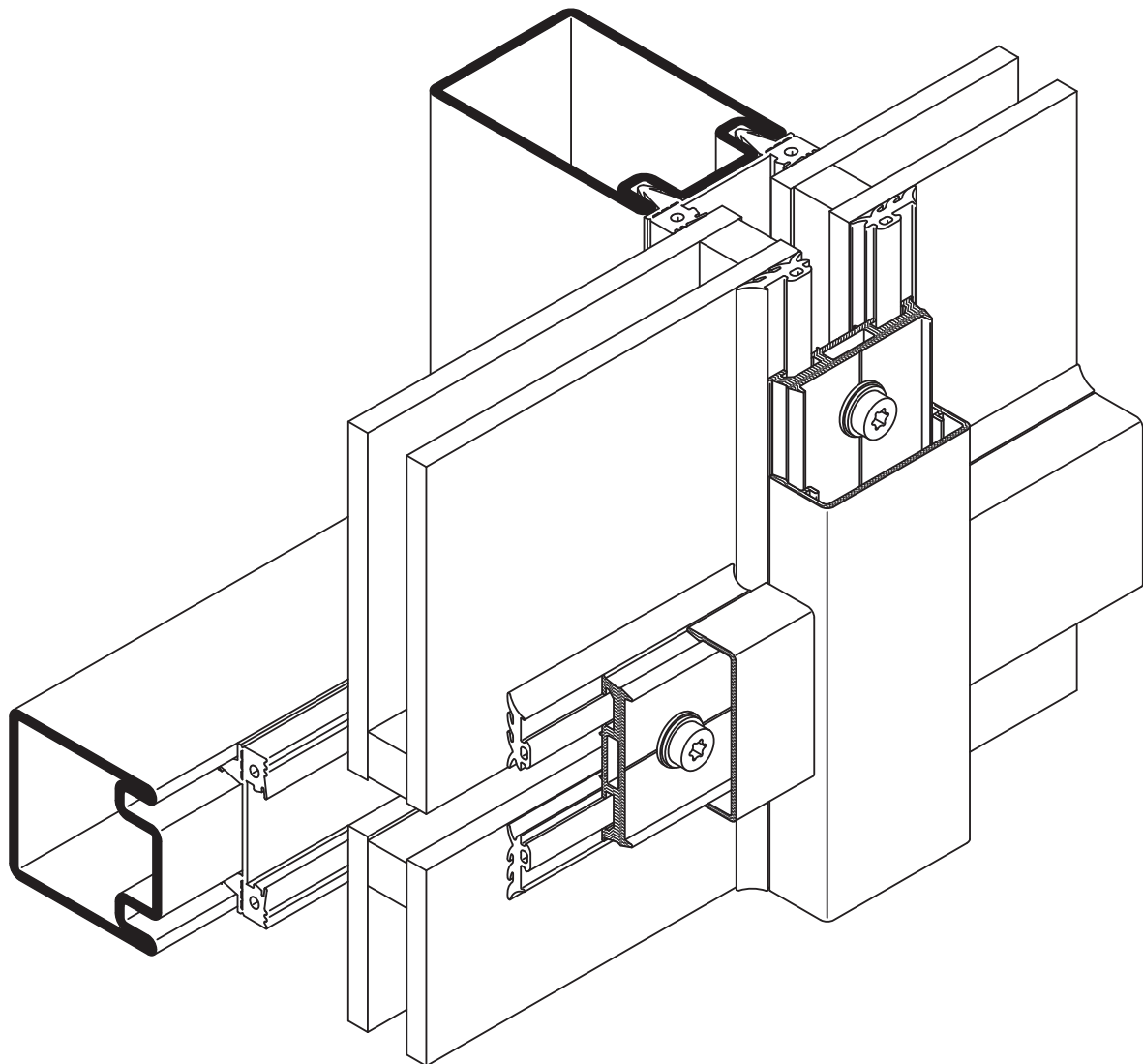


System design drawing



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Isometrics

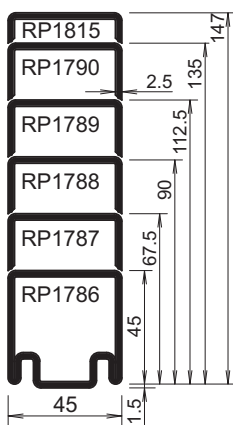


- E.E. and we reserve the right to effect modification -

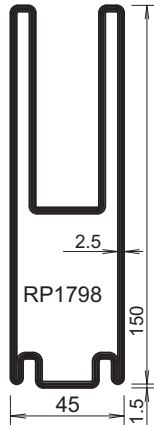
Part list

Facade System RP-ISO-hermetic 45 N

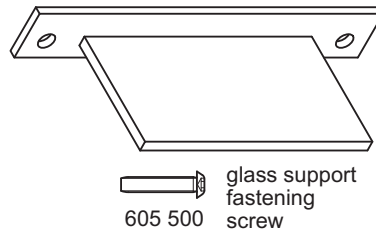
mullion and
transom profile



special profile



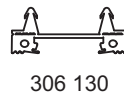
glass support



glass thickness

[mm]		
515 504	-	26
515 404	-	6
515 414	-	8
515 424	-	10
515 434	-	12
515 444	-	14
515 454	-	16
515 464	-	18
515 474	-	20
515 484	-	22
515 494	-	24
515 514	-	28
515 524	-	30
515 534	-	32
515 544	-	34
515 654	-	36
515 664	-	38
515 674	-	40
515 684	-	42
515 694	-	44
515 704	-	46

mullion and
transom seal

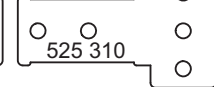


pressure- and connecting plates

intersection



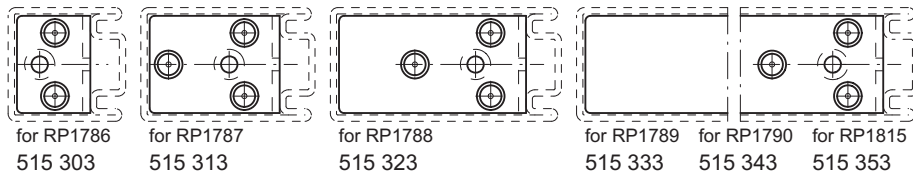
T-joint



fastening
screws



transom holder



screws for
ladder-type /
component
assembly

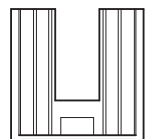


glazing beads / seals

aluminium



(cover caps $\geq 15\text{mm}$)



end seal
325 240
for 403 831, 403 840
403 851

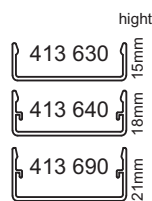
stainless steel



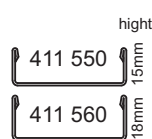
aluminium



cover caps
aluminium

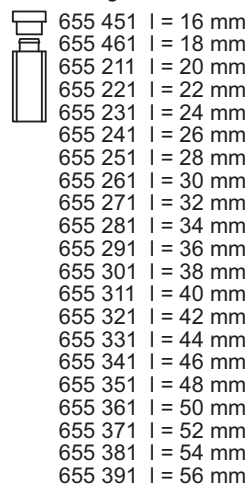


cover caps
stainless steel

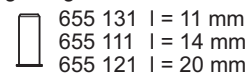


facade screws and
accessories

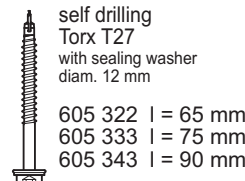
clamp separator bush
with sealing washer



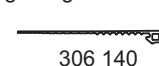
guiding bush



facade screw



additional rubber strip
glazing rebate



tools

punching tool transom
805 310

drilling template mullion
815 620

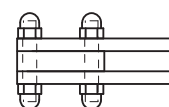
punching and cutting tool
805 330 transom seal
90 Grad

punching and cutting tool
805 152 transom seal
+/- 45 Grad

seal cutter
805 320 mullion seal
cut-out

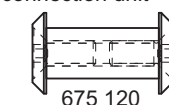
cutting template
805 340 mullion seal
cut-out

inserts for mullion

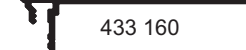


525 280 RP 1787
525 320 RP 1788
525 340 RP 1789
525 440 RP 1790

connection unit



adapter for membrane

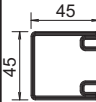
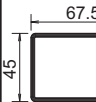
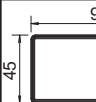
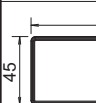
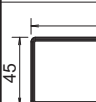
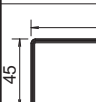
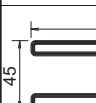


surface finish:

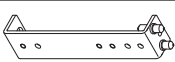
M 1:3 RP-Profiles: pre-galvanized. aluminium beads: anodisable

2-01

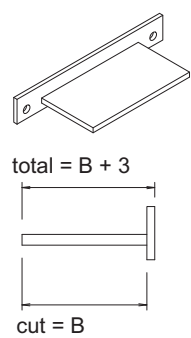
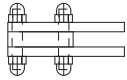
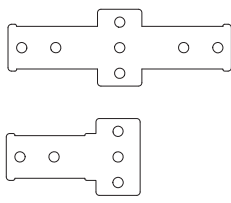
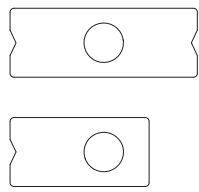
Part list

	part.no.	unit unit / bundle	item additional information
	RP 1786	6 m 24 bars/bundle	transom profile 45 mm depth, t = 2,5 mm pre-galvanized Iz 14,02 cm ⁴ Iy 14,64 cm ⁴ G 3,99 kg/m U 0,212 m ² /m
	RP 1787	6 m 24 bars/bundle	mullion- / transom profile 67,5 mm depth, t = 2,5 mm pre-galvanized Iz 38,16 cm ⁴ Iy 19,72 cm ⁴ G 4,88 kg/m U 0,257 m ² /m
	RP 1788	6 m 24 bars/bundle	mullion- / transom profile 90 mm depth, t = 2,5 mm pre-galvanized Iz 77,93 cm ⁴ Iy 24,81 cm ⁴ G 5,76 kg/m U 0,302 m ² /m
	RP 1789	6 m 24 bars/bundle	mullion- / transom profile 112,5 mm depth, t = 2,5 mm pre-galvanized Iz 136,22 cm ⁴ Iy 29,90 cm ⁴ G 6,65 kg/m U 0,347 m ² /m
	RP 1790	6 m 24 bars/bundle	mullion- / transom profile 135 mm depth, t = 2,5 mm pre-galvanized Iz 215,92 cm ⁴ Iy 34,99 cm ⁴ G 7,54 kg/m U 0,392 m ² /m
	RP 1815	6 m 24 bars/bundle	mullion- / transom profile 147 mm depth, t = 2,5 mm pre-galvanized Iz 268,17 cm ⁴ Iy 37,69 cm ⁴ G 8,01 kg/m U 0,416 m ² /m
	RP 1798	6 m 24 bars/bundle	mullion profile 150 mm depth, t = 2,5 mm pre-galvanized Iz 313,54 cm ⁴ Iy 45,81 cm ⁴ G 11,20 kg/m U 0,578 m ² /m
	300 381	100 m	seal, EPDM, black, self-adhesive for glazing bead 430 050
	300 560	100 m	seal, EPDM, black for glazing bead 403 831 / 403 840 / 403 851
	305 180	100 m	seal, EPDM, black for glazing bead 403 890
	306 130	25 m	mullion- / transom seal EPDM
	306 140	25 m	additional rubber strip (Bavette) EPDM
	325 240	1 pcs	end seal, EPDM, black for glazing beads: 403 831 / 403 840 / 403 851

Part list

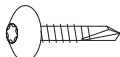
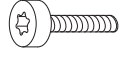
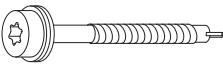
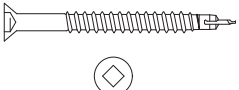
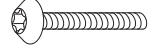
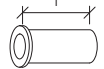
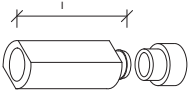
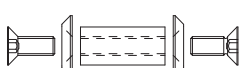
	part.no.	unit unit / bundle	item additional info
	403 831	6 m (1 x 6m)	glazing bead, aluminium AlMgSi0.5F22 (45 mm face width) G 0,54 kg/m U 0,137 m ² /m A 1,99 cm ²
	403 840	6 m (1 x 6m)	glazing bead, aluminium AlMgSi0.5F22 (45 mm face width) G 0,49 kg/m U 0,127 m ² /m A 1,81 cm ²
	403 851	6 m (1 x 6m)	glazing bead, aluminium AlMgSi0.5F22 (45 mm face width) G 1,05 kg/m U 0,199 m ² /m A 3,89 cm ²
	403 890	6 m (1 x 6m)	glazing bead, aluminium AlMgSi0.5F22 (45 mm face width) G 0,39 kg/m U 0,102 m ² /m A 1,44 cm ²
	411 550 411 560	12 m (2x6m) 12 m (2x6m)	cover cap, stainless steel 1.4401, 46 mm h = 15 mm sanded, 240 grain h = 18 mm sanded, 240 grain
	413 630 413 640 413 690	12 m (2x6m) 12 m (2x6m) 12 m (2x6m)	cover cap, aluminium AlMgSi0.5F22 h = 15 mm h = 18 mm h = 21 mm
	430 050	6 m (1 x 6m)	glazing bead, stainless steel 1.4401 (with cover caps 45 mm face width) G 0,81 kg/m U 0,141 m ² /m A 1,04 cm ²
	433 160	6 m (1 x 6m)	adapter for membrane aluminium
	515 303	20 pcs	transom holder, steel 2 bolts, steel galv. black 45 mm / RP 1786
	515 313	20 pcs	transom holder, steel 3 bolts, steel galv. black 67,5 mm / RP 1787
	515 323	20 pcs	transom holder, steel 3 bolts, steel galv. black 90 mm / RP 1788
	515 333	20 pcs	transom holder, steel 3 bolts, steel galv. black 112,5 mm / RP 1789
	515 343	20 pcs	transom holder, steel 3 bolts, steel galv. black 135 mm / RP 1790
	515 353	20 pcs	transom holder, steel 3 bolts, steel galv. black 147 mm / RP 1815

Part list

	part.no.	unit unit / bundle	item additional information
	515 404	20 pcs	glazing support, steel for glazing thickness 06 mm *, B = 09 mm
	515 414	20 pcs	08 mm *, B = 11 mm
	515 424	20 pcs	10 mm *, B = 13 mm
	515 434	20 pcs	12 mm *, B = 15 mm
	515 444	20 pcs	14 mm *, B = 17 mm
	515 454	20 pcs	16 mm *, B = 19 mm
	515 464	20 pcs	18 mm *, B = 21 mm
	515 474	20 pcs	20 mm *, B = 23 mm
	515 484	20 pcs	22 mm *, B = 25 mm
	515 494	20 pcs	24 mm *, B = 27 mm
	515 504	20 pcs	26 mm *, B = 29 mm
	515 514	20 pcs	28 mm *, B = 31 mm
	515 524	20 pcs	30 mm *, B = 33 mm
	515 534	20 pcs	32 mm *, B = 35 mm
	515 544	20 pcs	34 mm *, B = 37 mm
	515 654	20 pcs	36 mm *, B = 39 mm
	515 664	20 pcs	38 mm *, B = 41 mm
	515 674	20 pcs	40 mm *, B = 43 mm
	515 684	20 pcs	42 mm *, B = 45 mm
	515 694	20 pcs	44 mm *, B = 47 mm
	515 704	20 pcs	46 mm *, B = 49 mm
	525 280	1 pcs	RP-inserts, length = 500 mm, galv. without drilling holes for connection units
	525 320	1 pcs	for RP 1787
	525 340	1 pcs	for RP 1788
	525 440	1 pcs	for RP 1789
	on request	1 pcs	for RP 1790
	525 300	20 pcs	pressure- and connecting plates stainless steel intersection
	525 310	20 pcs	T-joint
	525 530	20 pcs	pressure- and connecting plate, stainless steel black, with self-adhesive foil on the back intersection
	525 540	20 pcs	T-joint

*) on request

Part list

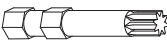
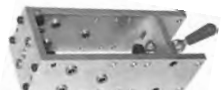
	part.no.	unit unit / bundle	item additional information
	605 100	50 pcs	fastening screw, Torx T25 for pressure- and connecting plate 525 300 / 525 310
	605 229	250 pcs	screw for ladder-type and component construction Torx T27, M 6 x 20, stainless steel A2 *)
	605 322 605 333 605 343	250 pcs 250 pcs 250 pcs	facade screw self-drilling 12 mm sealing washer, special screw Torx T27, stainless steel A2 *) 65 mm 75 mm 90 mm
	605 360 605 370 605 380	250 pcs 250 pcs 250 pcs	facade screw countersunk screw square socket 3, stainless steel A2 *) 51 mm 61 mm 81 mm
	605 500	250 pcs	fastening screw for glass support M 6 x 30, stainless steel A2 -80, DIN ISO 7380 *)
	655 111 655 121 655 131	250 pcs 250 pcs 250 pcs	guiding bush, PA *) l = 14 mm l = 20 mm l = 11 mm
	655 451 655 461 655 211 655 221 655 231 655 241 655 251 655 261 655 271 655 281 655 291 655 301 655 311 655 321 655 331 655 341 655 351	250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs 250 pcs	clamp separator bush (PA) with sealing washer (EPDM) *) l = 16 mm l = 18 mm l = 20 mm l = 22 mm l = 24 mm l = 26 mm l = 28 mm l = 30 mm l = 32 mm l = 34 mm l = 36 mm l = 38 mm l = 40 mm l = 42 mm l = 44 mm l = 46 mm l = 48 mm
	671 010	100 pcs	spring for cover sheets t = 2 mm (with standard rivet D = 4 mm, clamp length 2- 4 mm fixed, alu-rivet/stainless steel mandrel)
	675 120	2 pcs	connection part to fix mullion: 1 bolt, L = 44.5 mm, l = 20 mm, 2 supporting disks, l = 32 mm, 2 countersunk screws M10 x 25, A4

***)Attention: 100 pieces / PU valid from 01.07.2007**

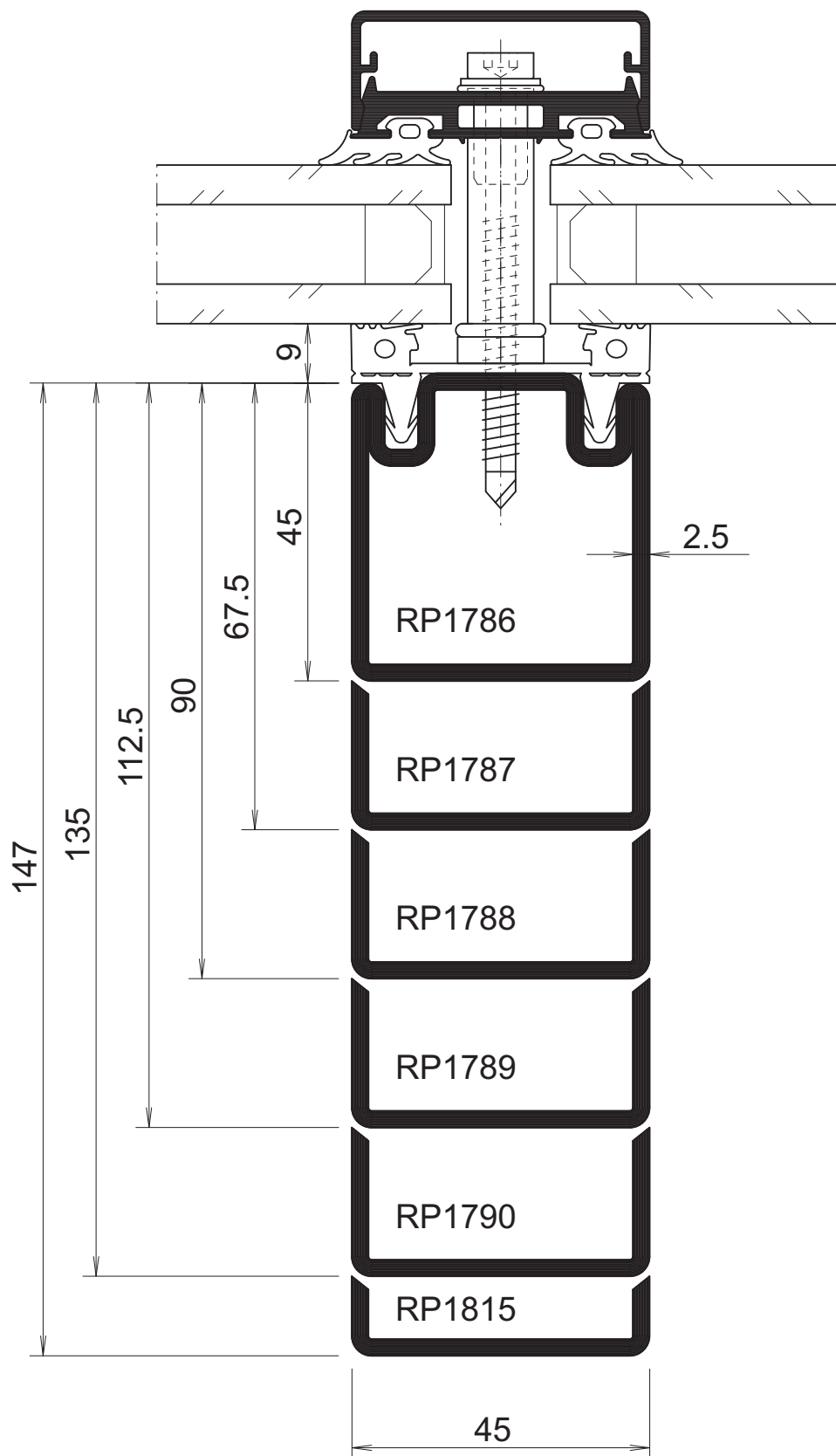
2-02-4

Part list

tools

	part.no.	unit	item additional information
	800 760	1 pc	hand cutter for cutting transom seals to required length, 90° stop
	805 152	1 pc	punching tools for transom seals, adjustable $\pm 45^\circ$ together with hand cutter part.no. 805 240
	805 200	1 pc	cut-out tool for transom seal, for making a manual slot hole, for welded glass support
	805 210 805 220	1 pc 1 pc	Torx Bit T27, für 1/4"-bush 25 mm 70 mm
	805 240	1 pc	hand cutter for cutting transom seals to required length after using transom seal cutter for cut outs part.no. 805 152
	805 311	1 pc	punching tools for transoms press force 5 to, height 300 mm hole lay-out 
	805 320	1 pc	mullion seal cutter grips into the transom holder drilling holes with screwed fixing into transom holder
	805 330	1 pc	punching and cutting tool for transom seals 90° cut fastened to drill holder
	805 340	1 pc	cutting template mullion seal to cut out mullion seal at intersections for welded connection and for screwed fixing into transom holder
	805 360	1 pc	punching tool 22 x 7 mm for plug-push-connection
	815 630	1 pc	Drilling template transom machining for transom hole lay-out for facade with 1 mm rebate between mullion-transom
	815 620	1 pc	drilling template for mullions

System sectional drawing of mullion

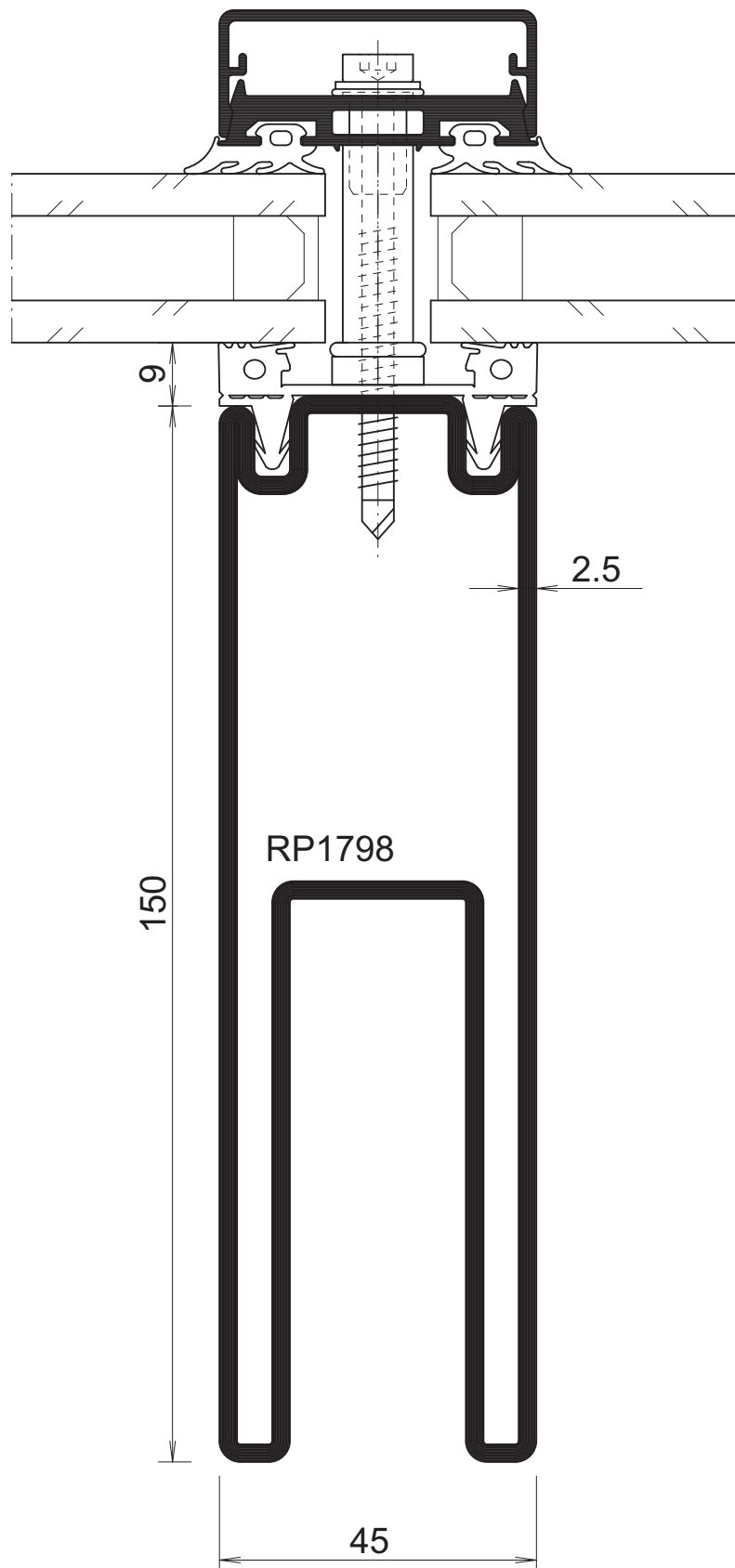


the rebate depth is 13,5 mm.
(over 3500 mm glass pane length: 15 mm)

M 1:1

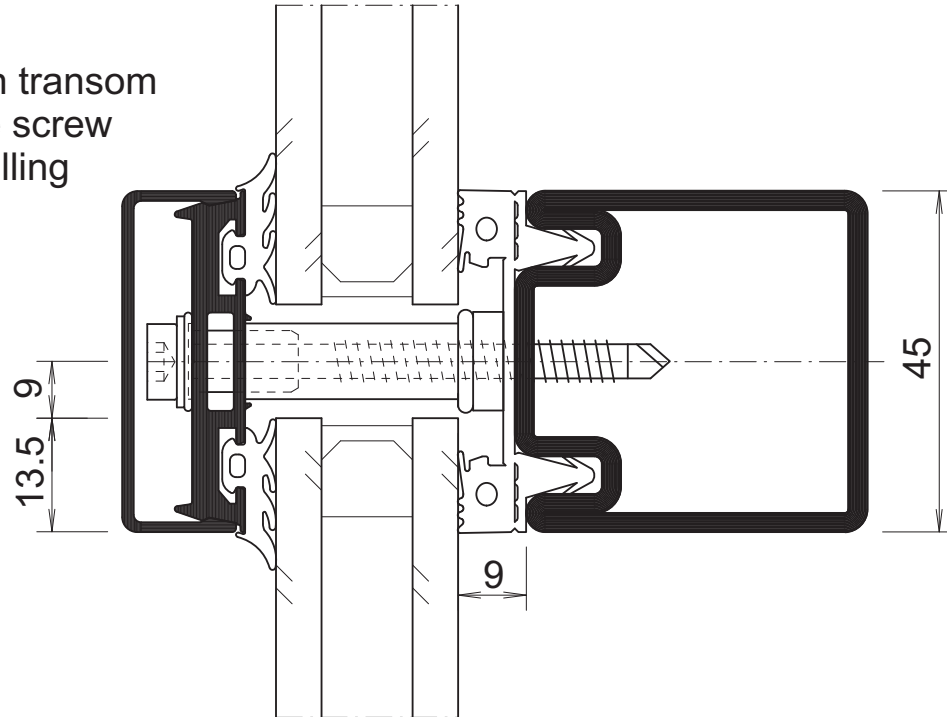
3-01

**Sectional drawing of mullion
special profile**

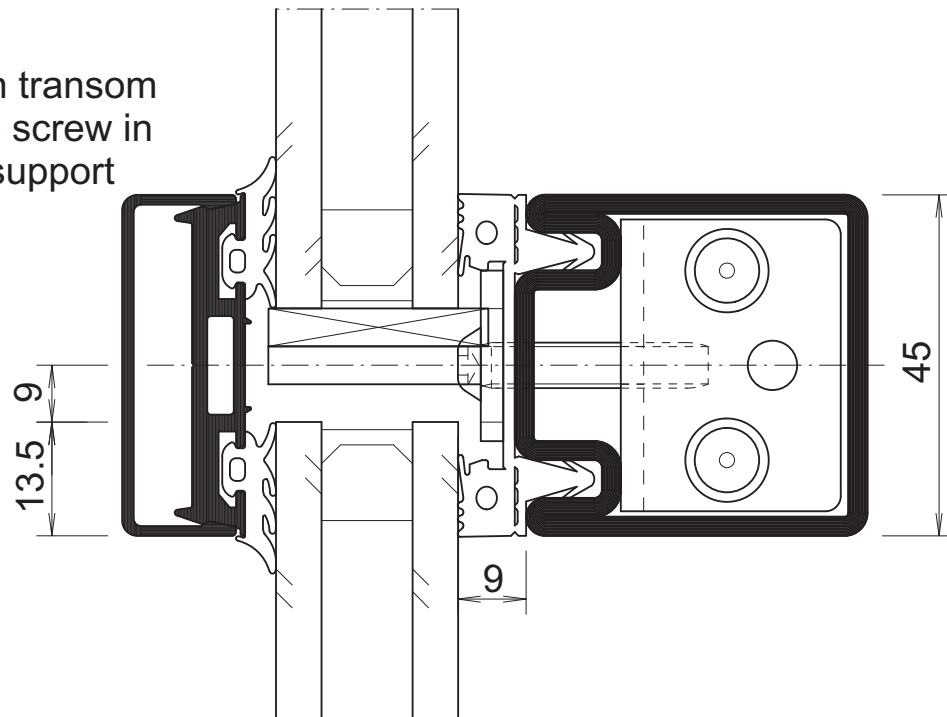


Sectional drawing of transom

section transom
 facade screw
 self-drilling



section transom
 facade screw in
 glass support

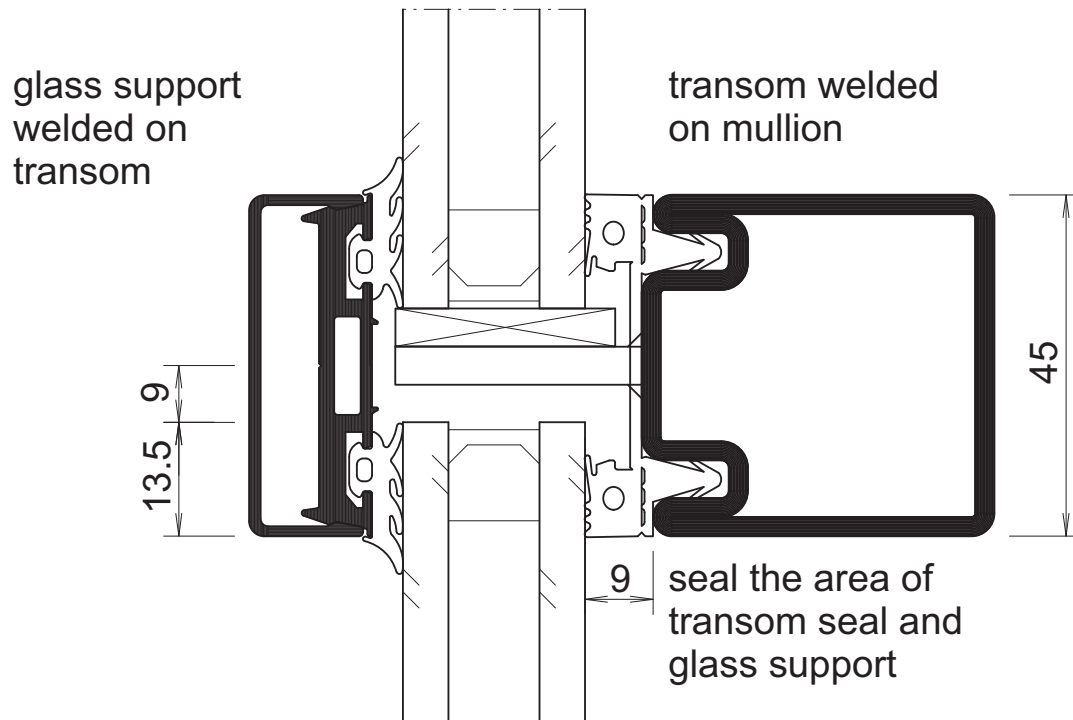


the rebate depth is 13,5 mm.
 (over 3500 mm glass pane length: 15 mm)

M 1:1

3-02

**Sectional drawing of transom
welded construction**



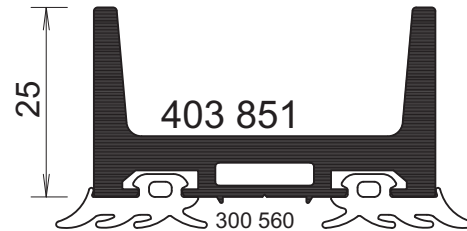
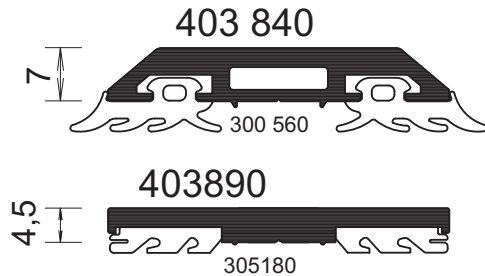
the rebate depth is 13,5 mm.
(over 3500 mm glass pane length: 15 mm)

M 1:1

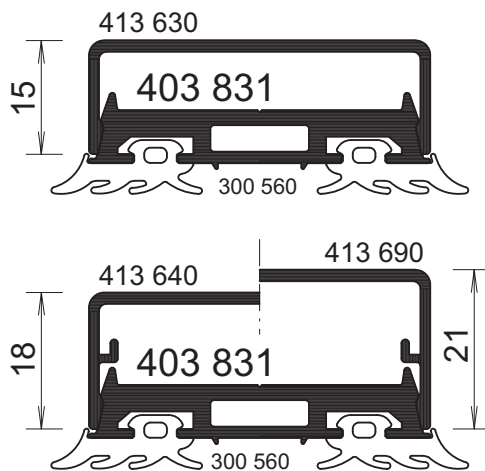
3-03

Glazing beads 45 mm

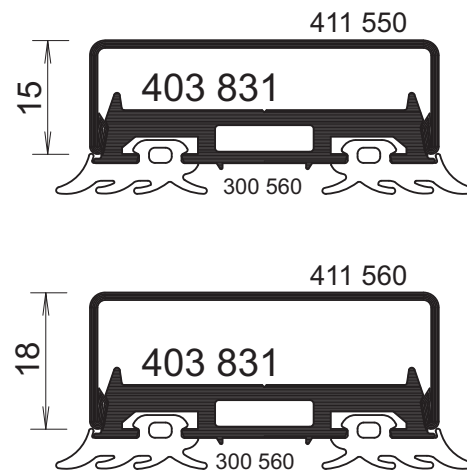
glazing beads - aluminium
without cover caps



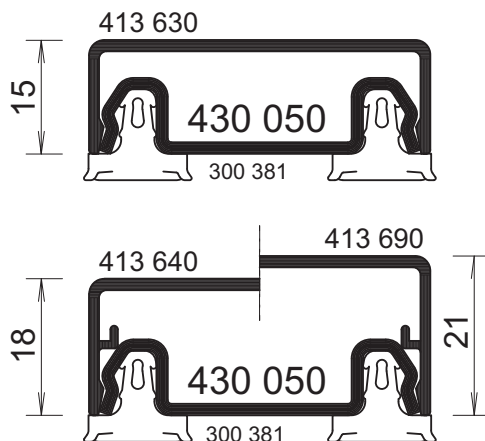
glazing bead - aluminium
with cover caps - aluminium



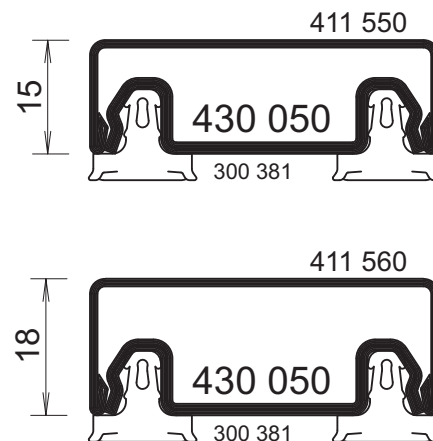
with cover caps - stainless steel
46 mm



glazing bead - stainless steel
with cover cap - aluminium



with cover cap - stainless steel
46 mm

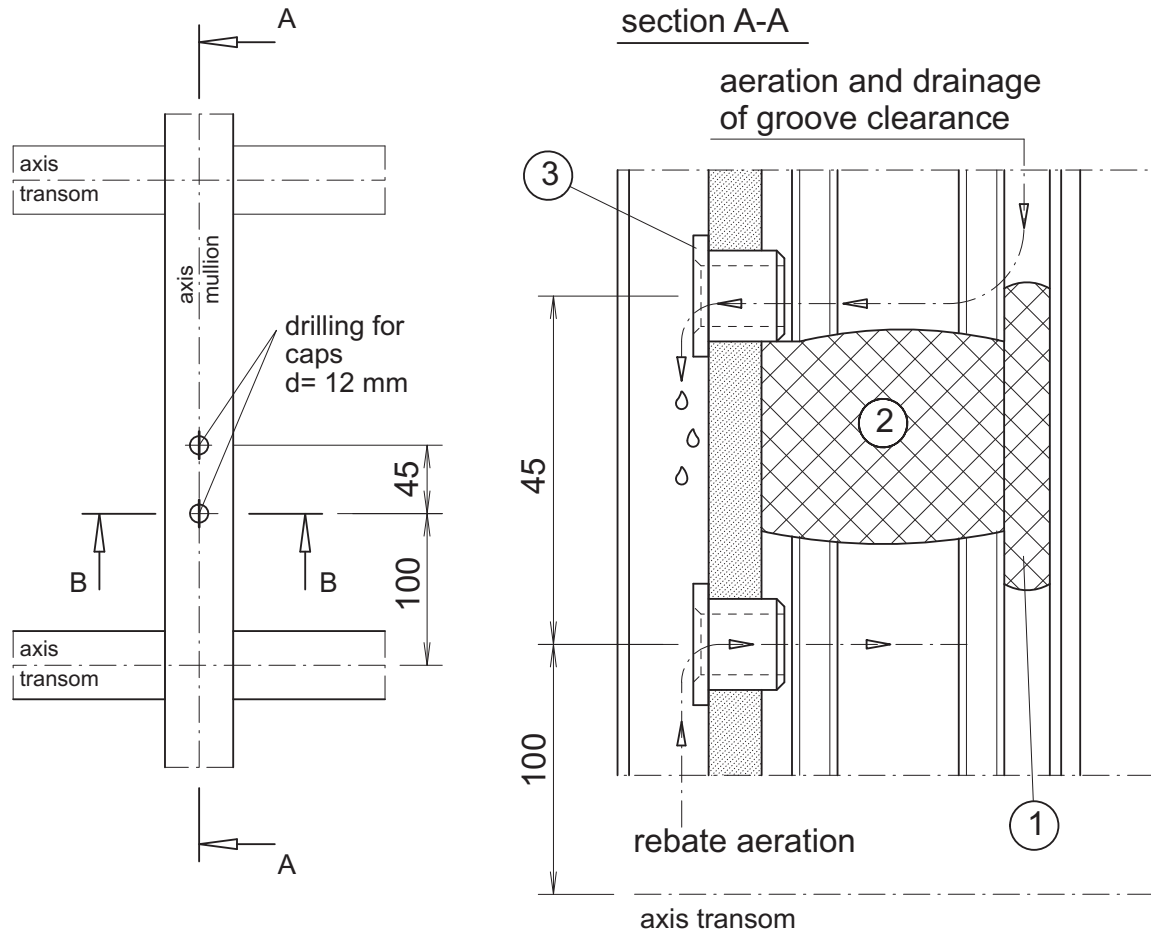


material
aluminium: AlMgSi05F22, anodisable
stainless steel: 1.4401, cover caps sanded with grain 240

M 1:1

3-04

**Aeration and drainage
with tall buildings**



pos. 1-3 on request

3-05

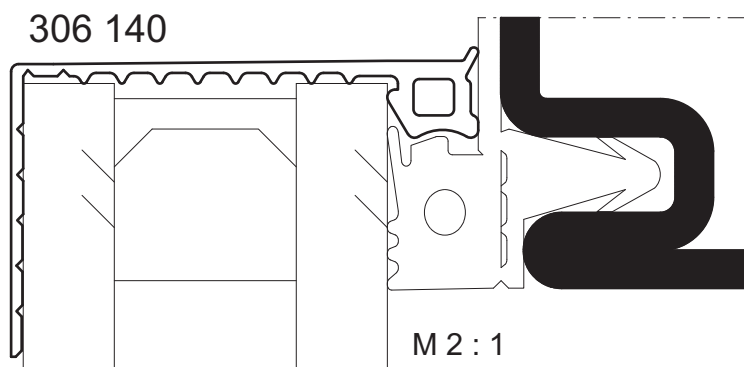
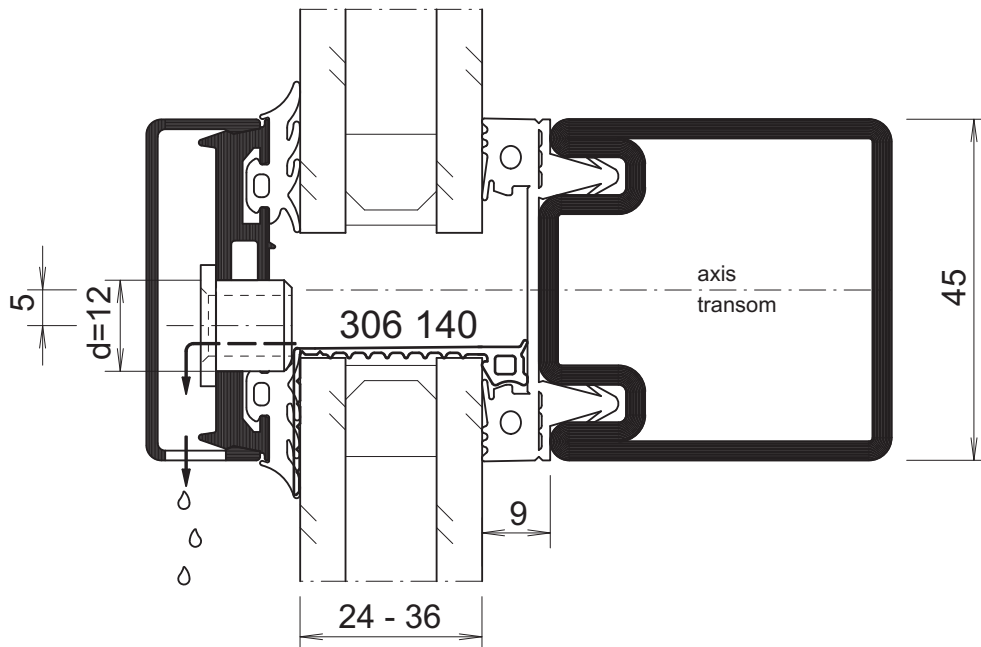
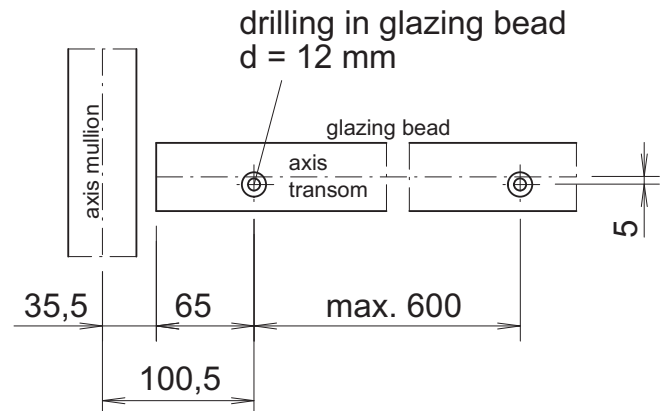
Mullion- / transom seal

additional rubber strip (Bavette)
special design for application in France

additional rubber strip (Bavette)
EPDM foil with clamping foot
for transom seal
306 140



overall length approx. 60 mm



Glazing charts



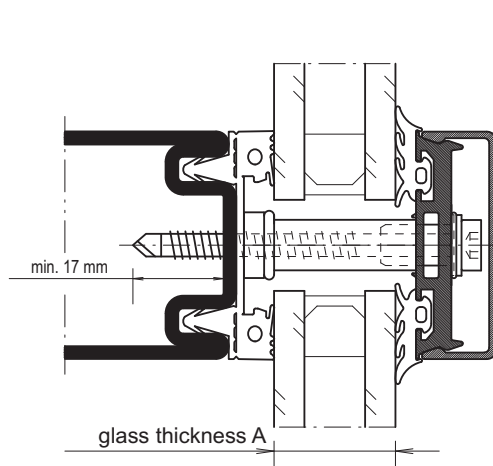
403 831



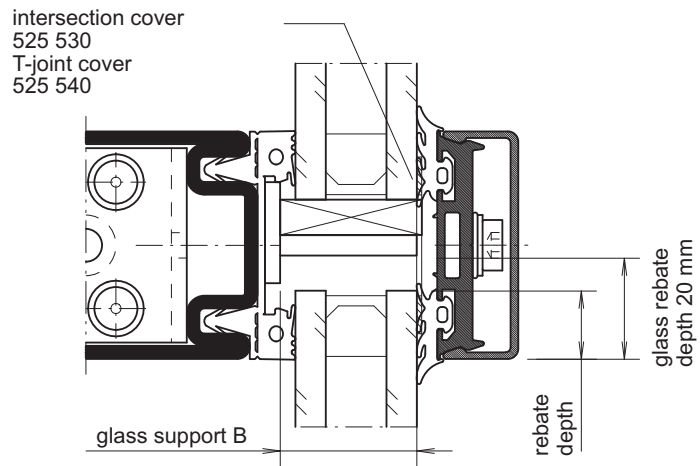
403 840



403 851



section transom
facade screw self drilling



section transom
with cover sheet

glass thickness A (mm)	clamp separator bush	guiding bush	facade screw self-drilling Torx T27	glass support (B) (mm)
6	655 451 (16 mm)	655111 (14 mm)	605 322 (65 mm)	515 404 (9 mm)
8	655 461 (18 mm)	-----	-----	515 414 (11 mm)
10	655 211 (20 mm)	-----	-----	515 424 (13 mm)
12	655 221 (22 mm)	-----	-----	515 434 (15 mm)
14	655 231 (24 mm)	655121 (20 mm)	-----	515 444 (17 mm)
16	655 241 (26 mm)	-----	-----	515 454 (19 mm)
18	655 251 (28 mm)	-----	-----	515 464 (21 mm)
20	655 261 (30 mm)	-----	-----	515 474 (23 mm)
22	655 271 (32 mm)	-----	-----	515 484 (25 mm)
24	655 281 (34 mm)	-----	-----	515 494 (27 mm)
26	655 291 (36 mm)	-----	605 333 (75 mm)	515 504 (29 mm)
28	655 301 (38 mm)	-----	-----	515 514 (31 mm)
30	655 311 (40 mm)	-----	-----	515 524 (33 mm)
32	655 321 (42 mm)	-----	-----	515 534 (35 mm)
34	655 331 (44 mm)	-----	-----	515 544 (37 mm)
36	655 341 (46 mm)	-----	605 343 (90 mm)	515 654 (39 mm)
38	655 351 (48 mm)	-----	-----	515 664 (41 mm)
40	655 361 (50 mm)	-----	-----	515 674 (43 mm)
42	655 371 (52 mm)	-----	-----	515 684 (45 mm)
44	655 381 (54 mm)	-----	-----	515 694 (47 mm)
46	655 391 (56 mm)	-----	-----	515 704 (49 mm)

the rebate depth is 13,5mm

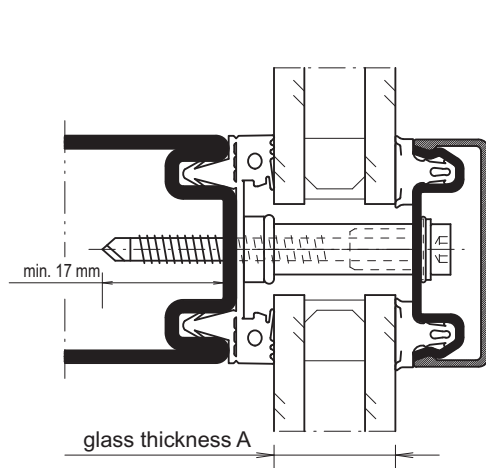
dimension size of glass pane:

width = center distance between mullion - 18 mm,
height = center distance between transom - 18 mm.

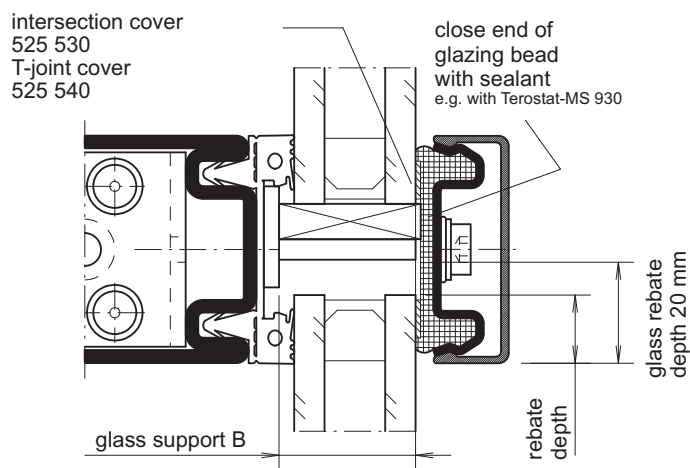
for glazing, together with general regulations
the following have to be considered:

DIN 18545, part1, glazing rebate
DIN 18361 VOB part C - glazing
DIN 52460 grooves and glass sealing
glazing regulations of the glass supplier

Glazing chart



section transom
facade screw self-drilling



section transom
with cover sheet

glass thickness A (mm)	clamp separator bush	guiding bush	facade screw self-drilling Torx T27	glass support (B) (mm)
8	655 461 (18 mm)	655111 (14 mm)	605 322 (65 mm)	515 414 (11 mm)
10	655 211 (20 mm)	-----	-----	515 424 (13 mm)
12	655 221 (22 mm)	-----	-----	515 434 (15 mm)
14	655 231 (24 mm)	-----	-----	515 444 (17 mm)
16	655 241 (26 mm)	-----	-----	515 454 (19 mm)
18	655 251 (28 mm)	655121 (20 mm)	-----	515 464 (21 mm)
20	655 261 (30 mm)	-----	-----	515 474 (23 mm)
22	655 271 (32 mm)	-----	-----	515 484 (25 mm)
24	655 281 (34 mm)	-----	-----	515 494 (27 mm)
26	655 291 (36 mm)	-----	-----	515 504 (29 mm)
28	655 301 (38 mm)	-----	-----	515 514 (31 mm)
30	655 311 (40 mm)	-----	-----	515 524 (33 mm)
32	655 321 (42 mm)	-----	605 333 (75 mm)	515 534 (35 mm)
34	655 331 (44 mm)	-----	-----	515 544 (37 mm)
36	655 341 (46 mm)	-----	-----	515 654 (39 mm)
38	655 351 (48 mm)	-----	-----	515 664 (41 mm)
40	655 361 (50 mm)	-----	-----	515 674 (43 mm)
42	655 371 (52 mm)	-----	605 343 (90 mm)	515 684 (45 mm)
44	655 381 (54 mm)	-----	-----	515 694 (47 mm)
46	655 391 (56 mm)	-----	-----	515 704 (49 mm)

the rebate depth is 13,5mm

dimension size of glass pane:

width = center distance between mullion - 18 mm,
height = center distance between transom - 18 mm.

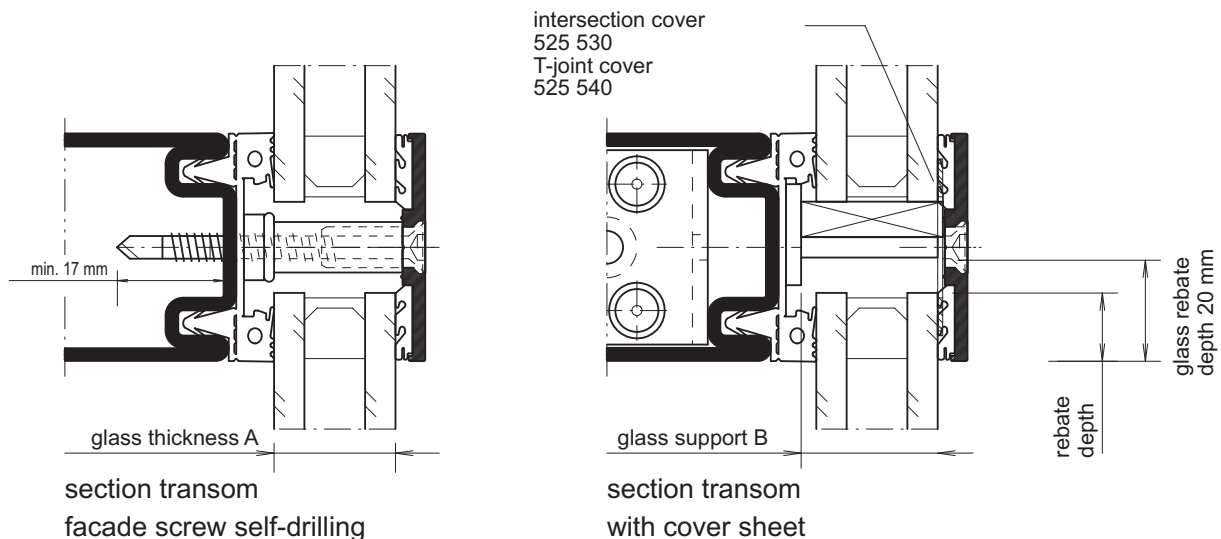
for glazing, together with general regulations
the following have to be considered:

DIN 18545, part1, glazing rebate
DIN 18361 VOB part C - glazing
DIN 52460 grooves and glass sealing
glazing regulations of the glass supplier

4-02

Glazing chart

403 890



glass thickness A (mm)	clamp separator bush	guiding bush	facade screw self-drilling square socket 3	glass support (B) (mm)
8	655 451 (16 mm)	655131 (11 mm)	605 360 (51 mm)	515 414 (11 mm)
10	655 461 (18 mm)		-----	515 424 (13 mm)
12	655 211 (20 mm)	655111 (14 mm)	-----	515 434 (15 mm)
14	655 221 (22 mm)	-----	-----	515 444 (17 mm)
16	655 231 (24 mm)	-----	-----	515 454 (19 mm)
18	655 241 (26 mm)	655121 (20 mm)	605 370 (61 mm)	515 464 (21 mm)
20	655 251 (28 mm)	-----	-----	515 474 (23 mm)
22	655 261 (30 mm)	-----	-----	515 484 (25 mm)
24	655 271 (32 mm)	-----	-----	515 494 (27 mm)
26	655 281 (34 mm)	-----	-----	515 504 (29 mm)
28*	655 291 (36 mm)	-----	605 380 (81 mm)	515 514 (31 mm)
30*	655 301 (38 mm)	-----	-----	515 524 (33 mm)
32*	655 311 (40 mm)	-----	-----	515 534 (35 mm)
34*	655 321 (42 mm)	-----	-----	515 544 (37 mm)
36	655 331 (44 mm)	-----	-----	515 654 (39 mm)
38	655 341 (46 mm)	-----	-----	515 664 (41 mm)
40	655 351 (48 mm)	-----	-----	515 674 (43 mm)
42	655 361 (50 mm)	-----	-----	515 684 (45 mm)
44	655 371 (52 mm)	-----	-----	515 694 (47 mm)
46	655 381 (54 mm)	-----	-----	515 704 (49 mm)

*) combination with special RP-inserts, on request

the rebate depth is 13,5mm

dimension size of glass pane:

width = center distance between mullion - 18 mm,
height = center distance between transom - 18 mm.

Not suitable for pitched roof glazing!

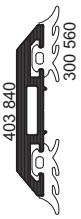
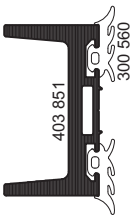
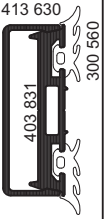
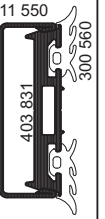
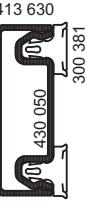
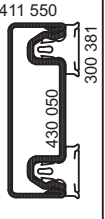
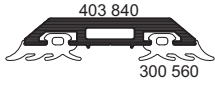
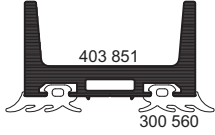
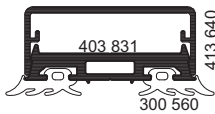
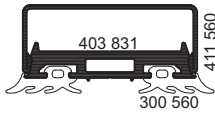
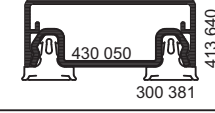
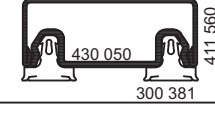
for glazing, together with general regulations
the following have to be considered:

DIN 18545, part1, glazing rebate
DIN 18361 VOB part C - glazing
DIN 52460 grooves and glass sealing
glazing regulations of the glass supplier

Screw fixation

Pressure plates are drilled and countersunk according to the drawing.
The electric drill must be set at a minimum of 1500 cycles/minute. Screw depth must be limited by depth stop. Varying screw depths must be equaled after visual control.

Production memo
deduction list - versions

transom mullion							
							
	<u>V 1</u> 5-01-01						
	<u>V 2</u> 5-01-02	<u>V 3</u> 5-01-03	<u>V 4</u> 5-01-04	<u>V 5</u> 5-01-05			<u>V 6</u> 5-01-06
	<u>V 7</u> 5-01-07		<u>V 8</u> 5-01-08				
	<u>V 9</u> 5-01-09			<u>V 10</u> 5-01-10			
					<u>V 11</u> 5-01-11		
						<u>V 12</u> 5-01-12	
							<u>V 13</u> 5-01-13

V 1 : version
5-01-01 : page-no.

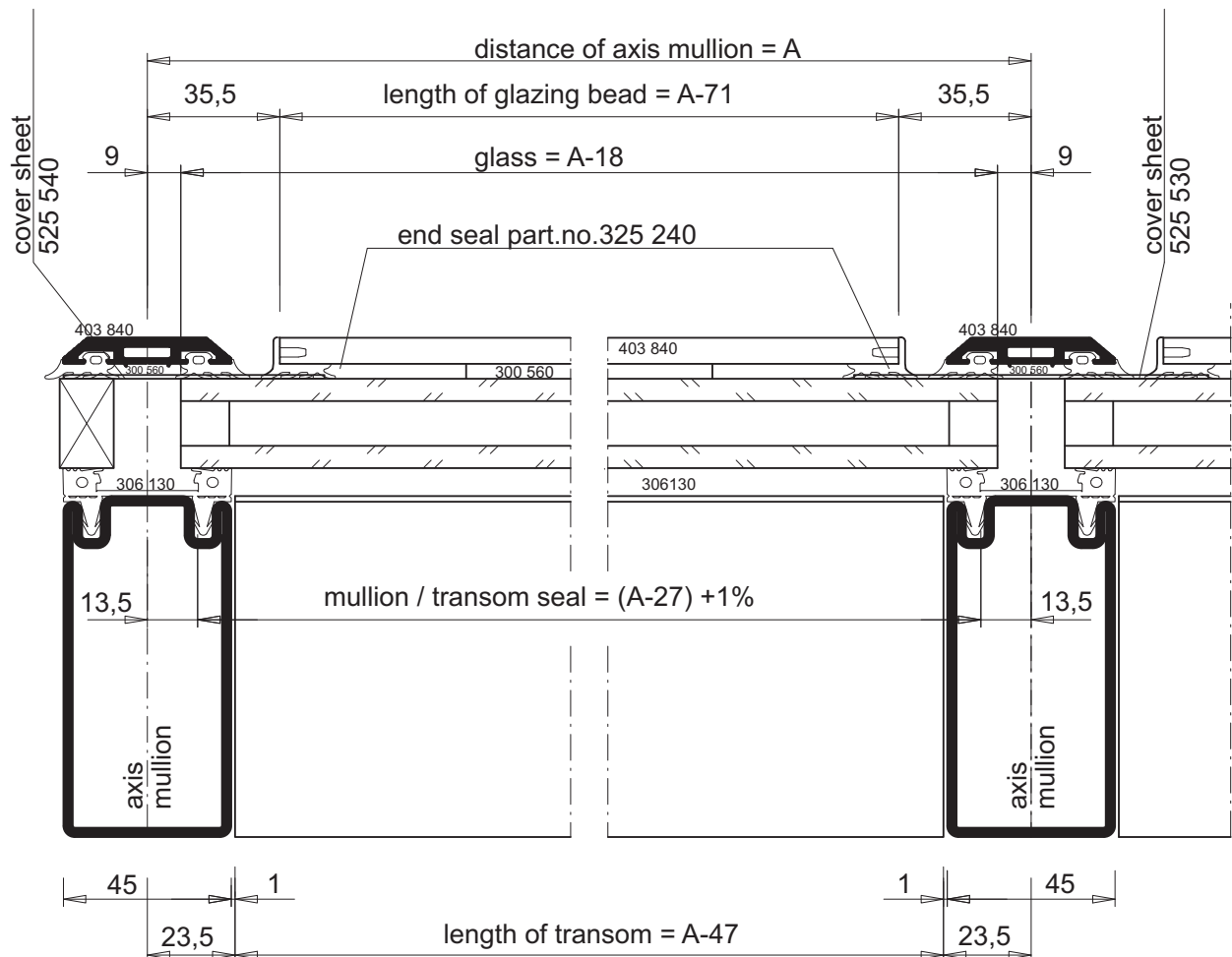
Production memo
deduction list

VERSION 1

glazing bead - mullion part.no. 403 840
glazing bead - transom part.no. 403 840

ATTENTION!

1.distance of axis min.460 mm
smaller distance - special design on request



material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401 , cover caps sanded with grain 240

M 1:2

5-01-01

- E.E. and we reserve the right to effect modifications -

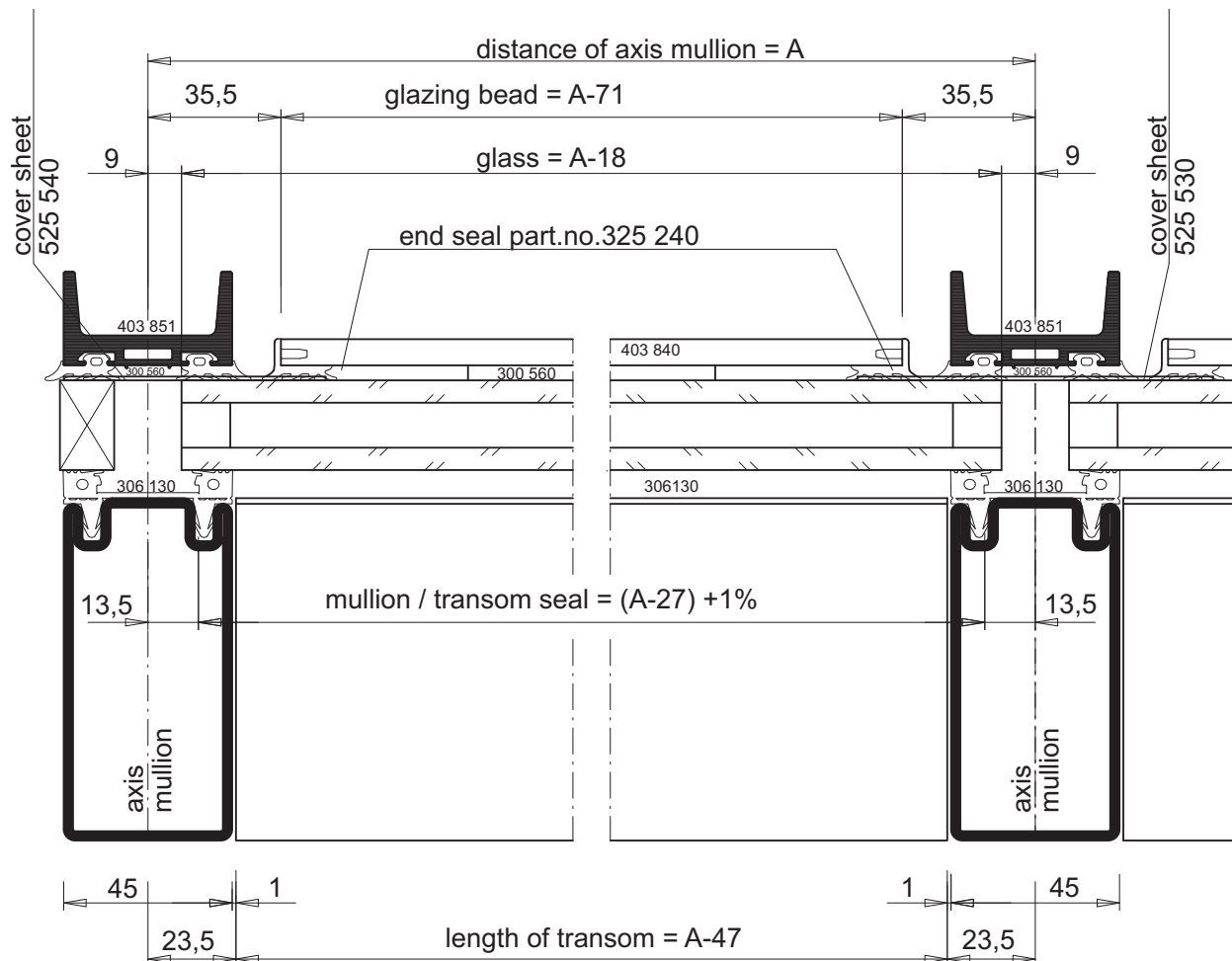
Production memo
deduction list

VERSION 2

glazing bead - mullion part.no. 403 851
glazing bead - transom part.no. 403 840

ATTENTION!

1. distance of axis min. 460 mm
smaller distance - special design on request



material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401, cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

5-01-02

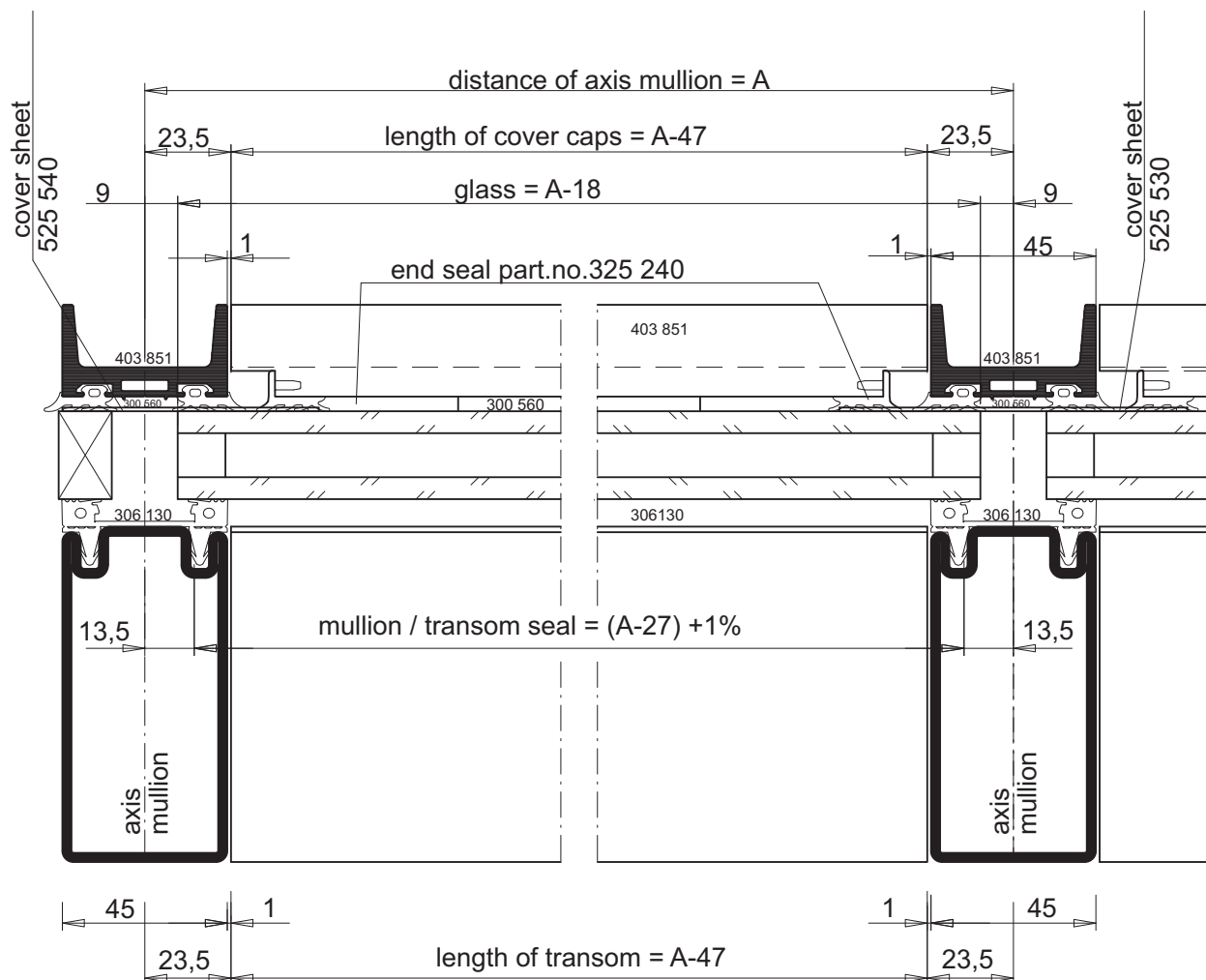
Production memo
deduction list

VERSION 3

glazing bead - mullion part.no. 403 851
glazing bead - transom part.no. 403 851

ATTENTION!

1.distance of axis min.460 mm
smaller distance - special design on request



material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401 , cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

5-01-03

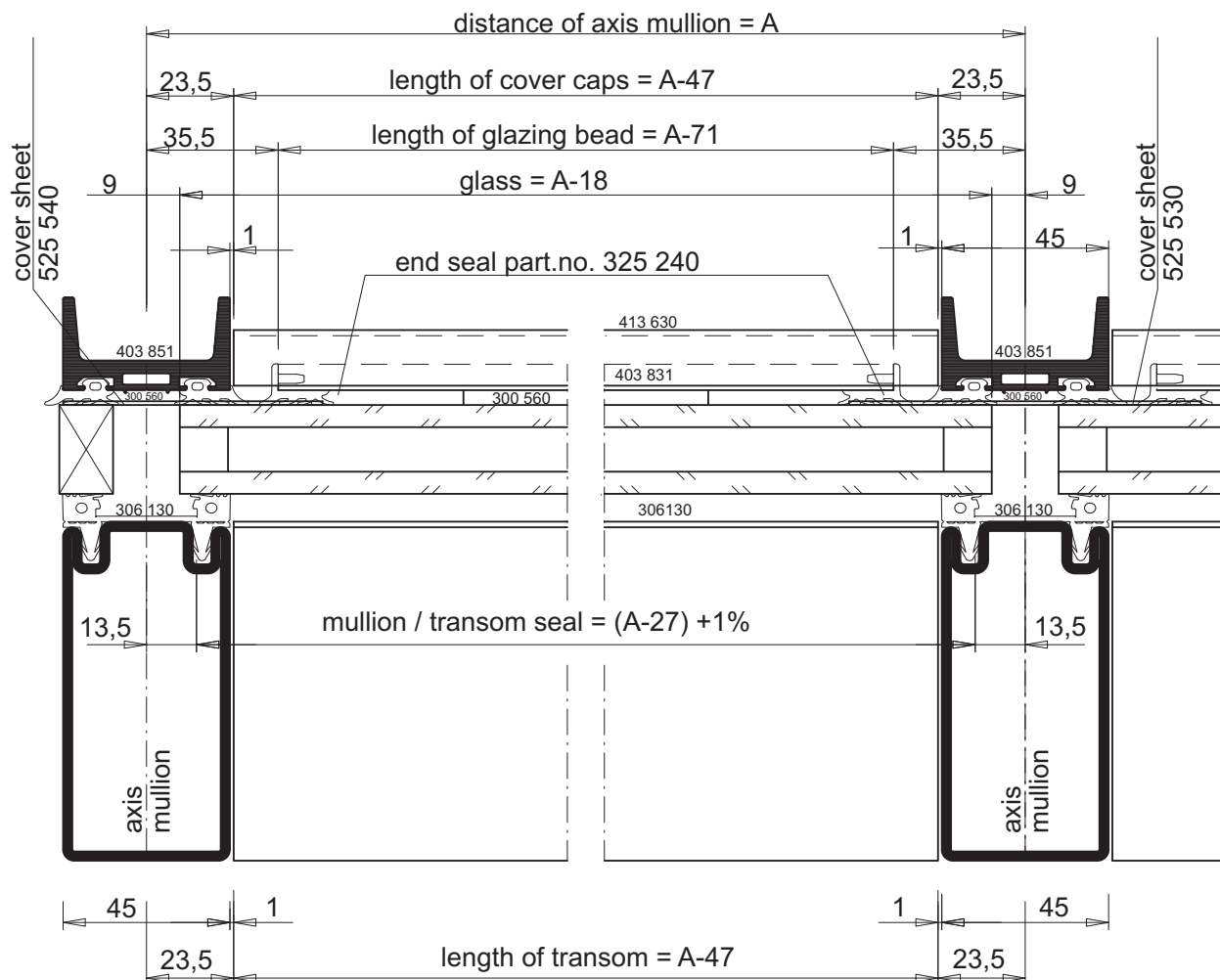
Production memo
deduction list

VERSION 4

glazing bead - mullion part.no. 403 851
glazing bead - transom part.no. 413 630
glazing bead - transom part.no. 403 831

ATTENTION!

1.distance of axis min.460 mm
smaller distance - special design on request



material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401 , cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

5-01-04

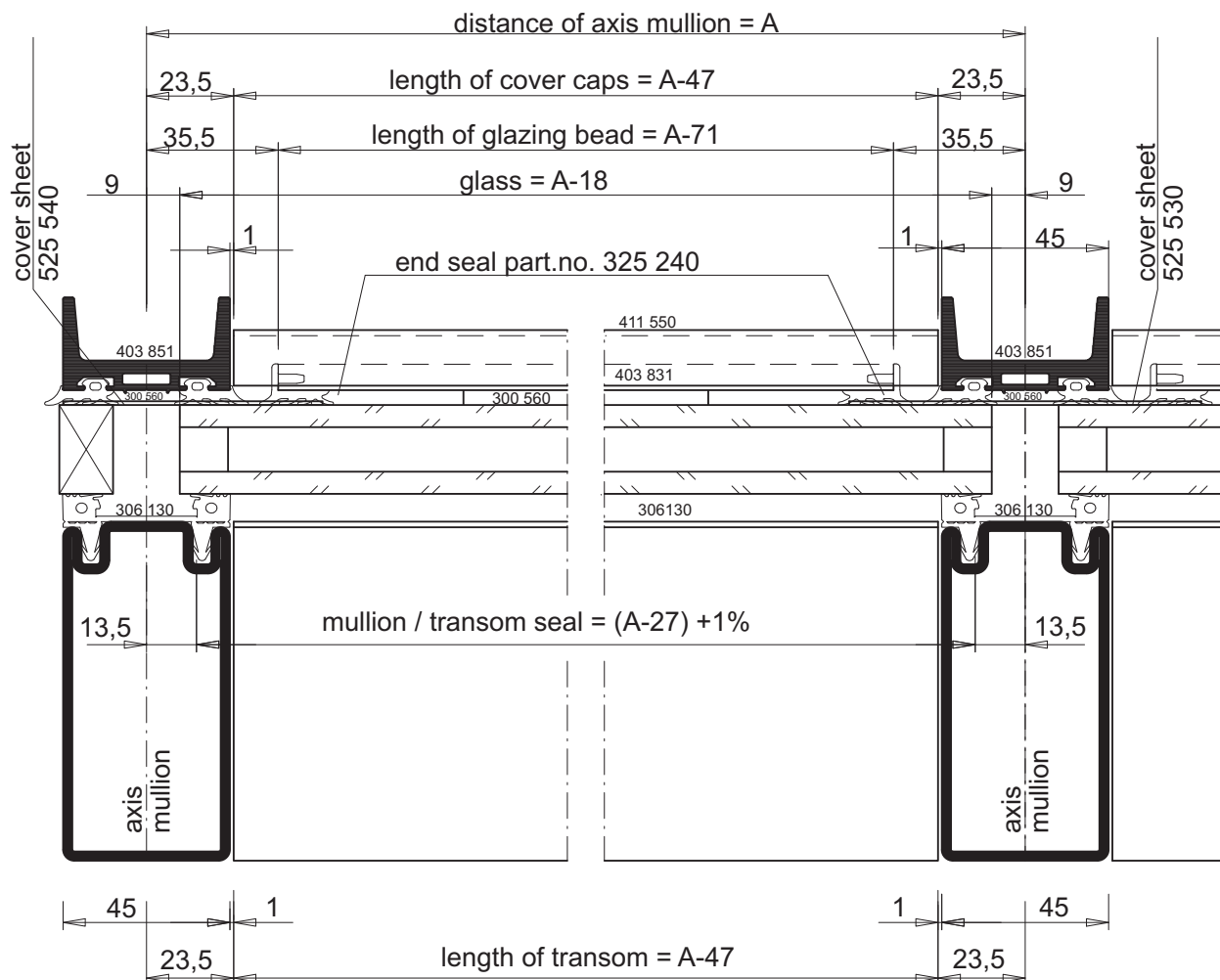
Production memo
deduction list

VERSION 5

glazing bead - mullion part.no. 403 851
glazing bead - transom part.no. 411 550
glazing bead - transom part.no. 403 831

ATTENTION!

1. distance of axis min. 460 mm
smaller distance - special design on request



material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401, cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

5-01-05

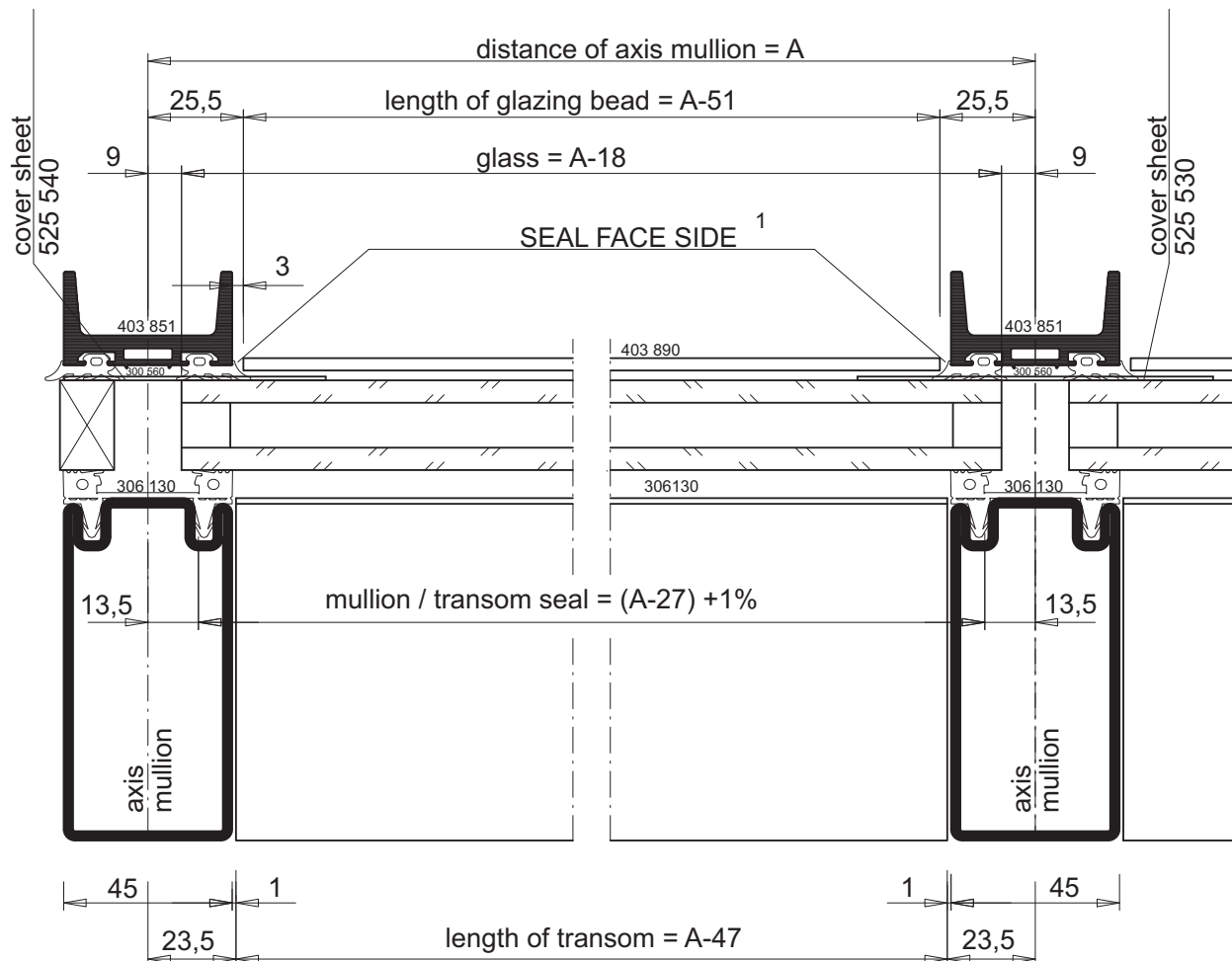
Production memo
deduction list

VERSION 6

glazing bead - mullion part.no. 403 851
glazing bead - transom part.no. 403 890

ATTENTION!

1. distance of axis min. 460 mm
smaller distance - special design on request



1) - e.g. with Terostat-MS 930

material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401, cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

5-01-06

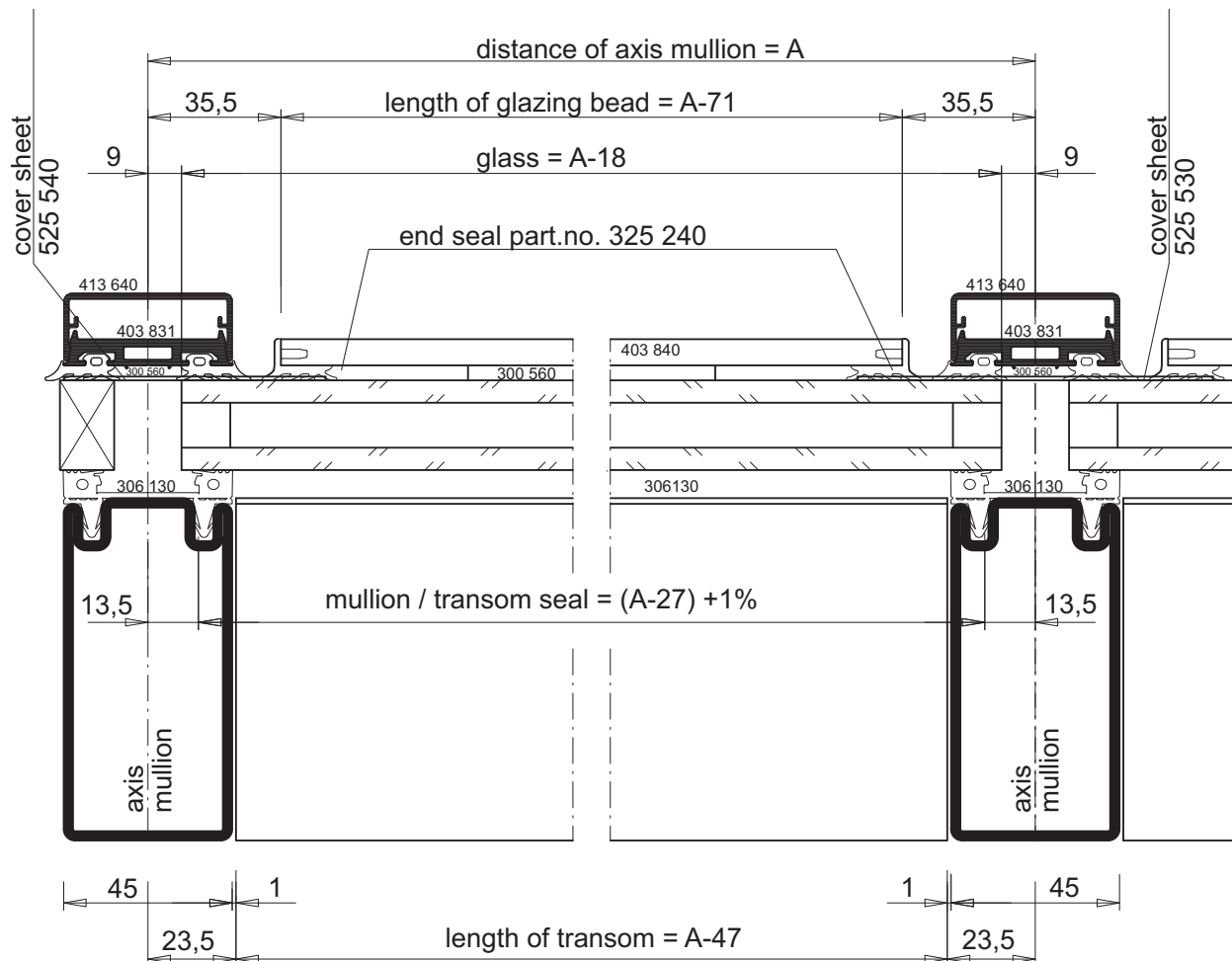
Production memo
deduction list

VERSION 7

cover cap - mullion part.no. 413 640
glazing bead - mullion part.no. 403 831
glazing bead - transom part.no. 403 840

ATTENTION!

1.distance of axis min.460 mm
smaller distance - special design on request



material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401 , cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

5-01-07

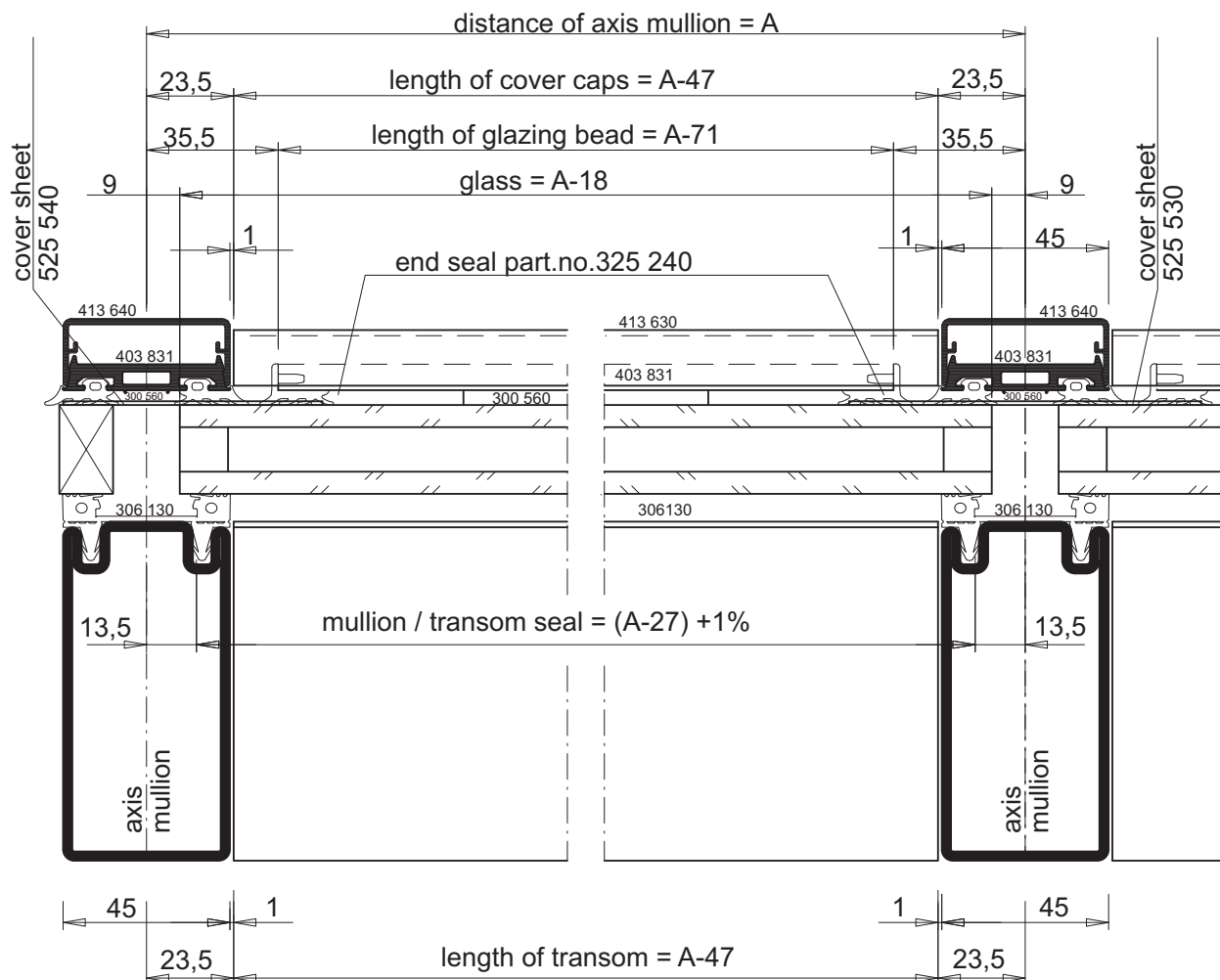
Production memo
deduction list

VERSION 8

cover cap - mullion part.no. 413 640
cover cap - transom part.no. 413 630
glazing bead - mullion part.no. 403 831
glazing bead - transom part.no. 403 831

ATTENTION!

1.distance of axis min.460 mm
smaller distance - special design on request



material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401 , cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

5-01-08

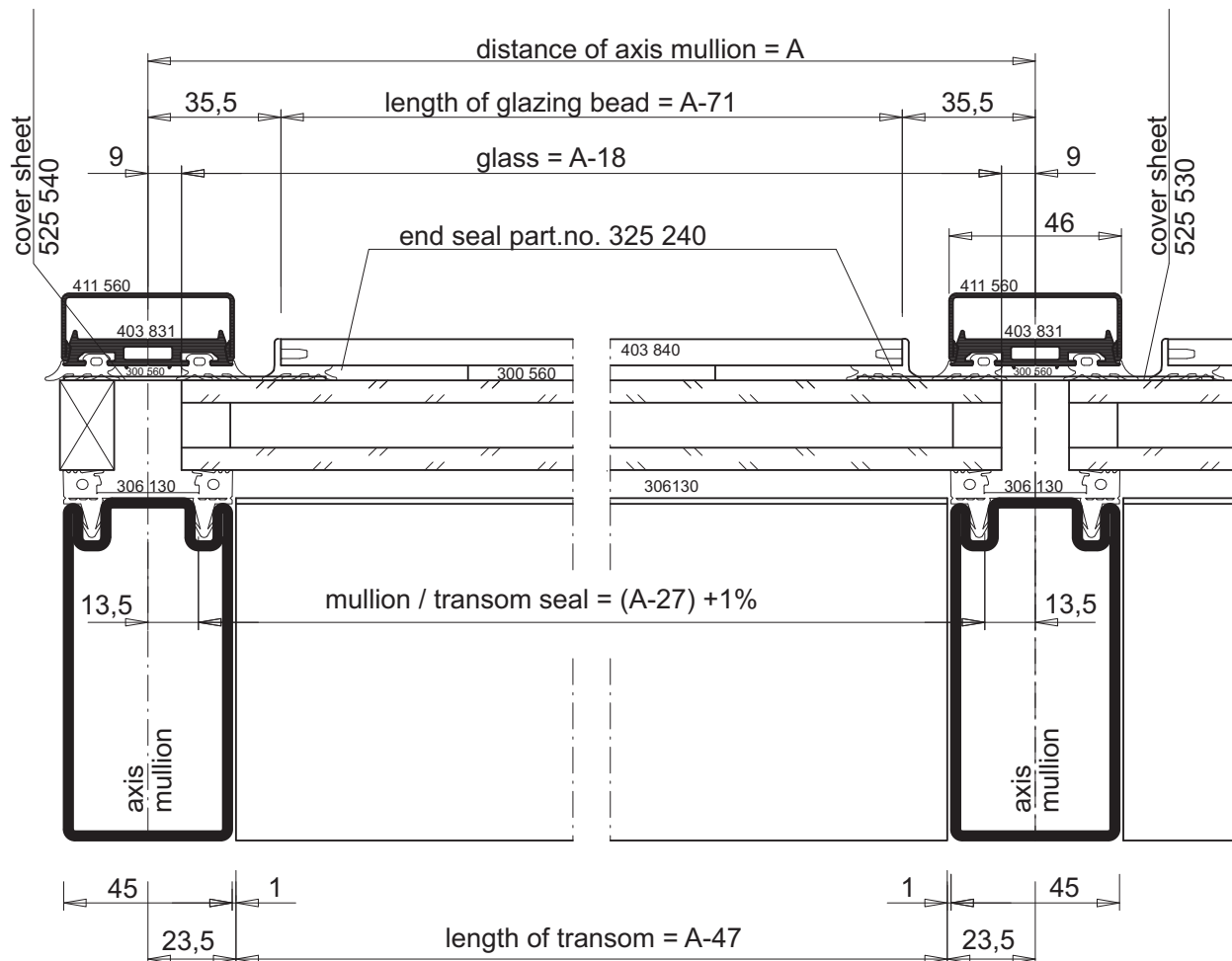
Production memo
deduction list

VERSION 9

cover cap - mullion part.no. 411 560
glazing bead - mullion part.no. 403 831
glazing bead - transom part.no. 403 840

ATTENTION!

1. distance of axis min. 460 mm
smaller distance - special design on request



material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401, cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

5-01-09

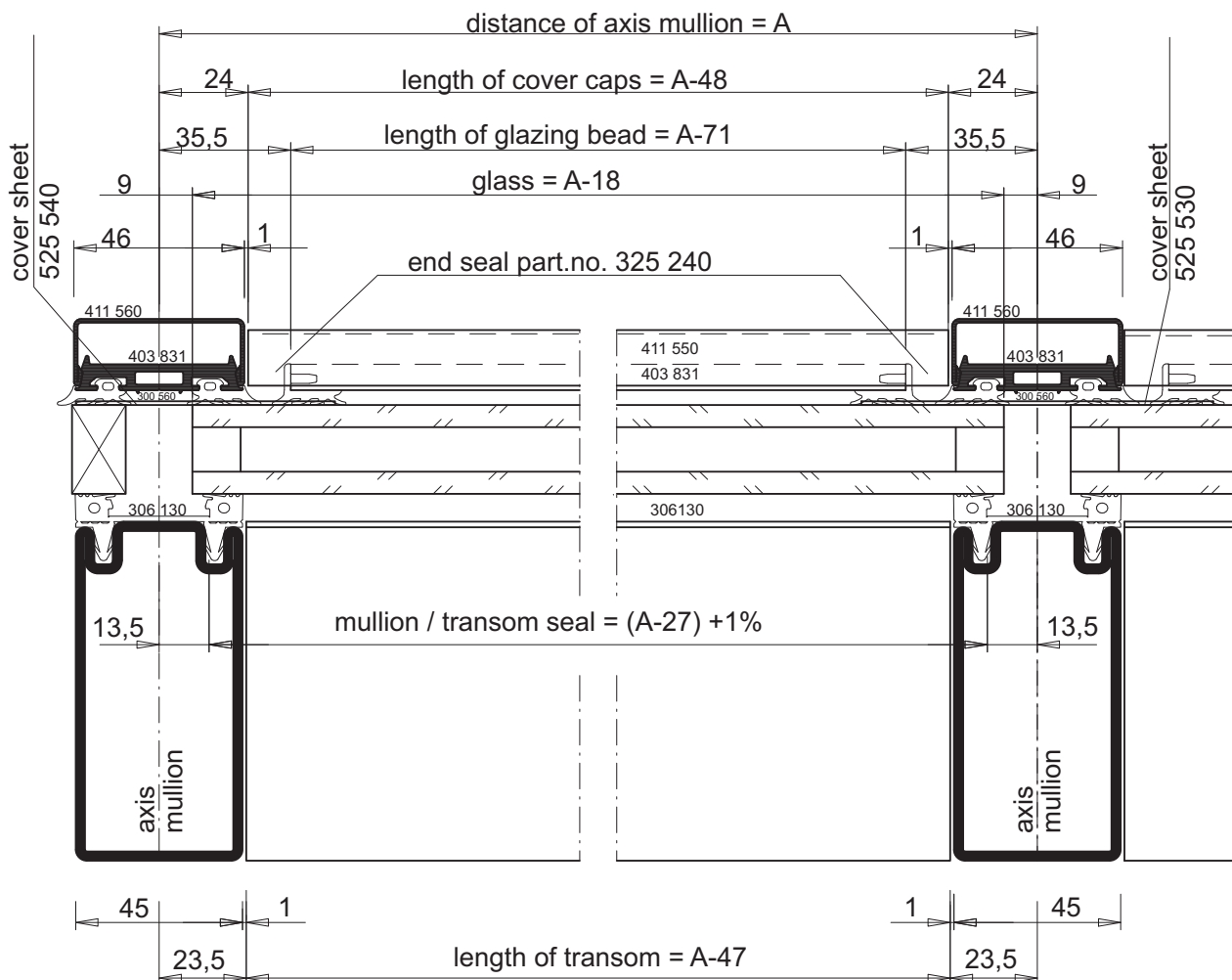
Production memo deduction list

VERSION 10

cover cap - mullion part.no. 411 560
cover cap - transom part.no. 411 550
glazing bead - mullion part.no. 403 831
glazing bead - transom part.no. 403 831

ATTENTION!

- 1.distance of axis min.460 mm
smaller distance - special design on request



material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401 , cover caps sanded with grain 240

M 1:2

5-01-10

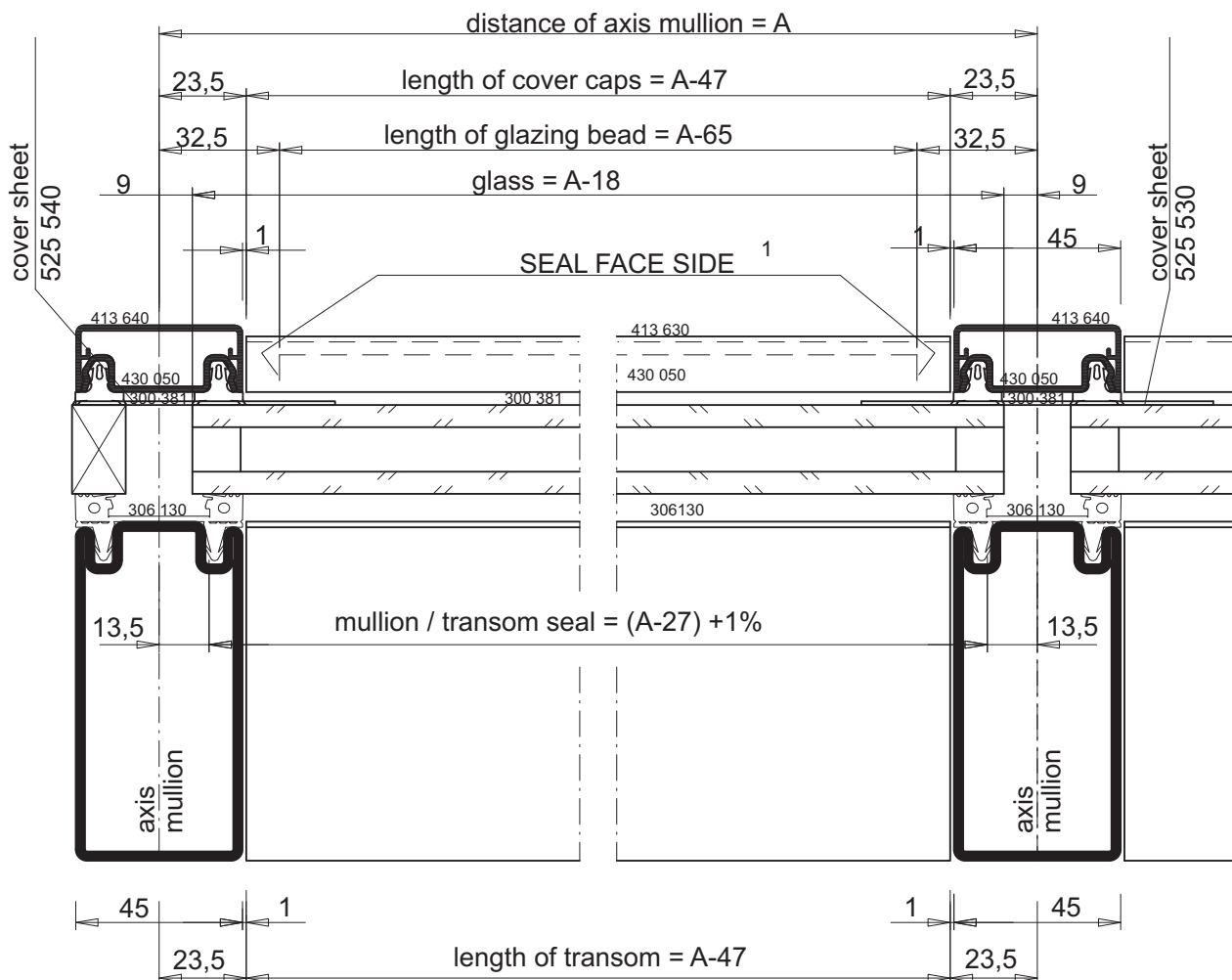
Production memo
deduction list

VERSION 11

cover cap - mullion part.no. 413 640
cover cap - transom part.no. 413 630
glazing bead - mullion part.no. 430 050
glazing bead - transom part.no. 430 050

ATTENTION!

1. distance of axis min. 460 mm
smaller distance - special design on request



1) - e.g. with Terostat-MS 930

material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401, cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

5-01-11

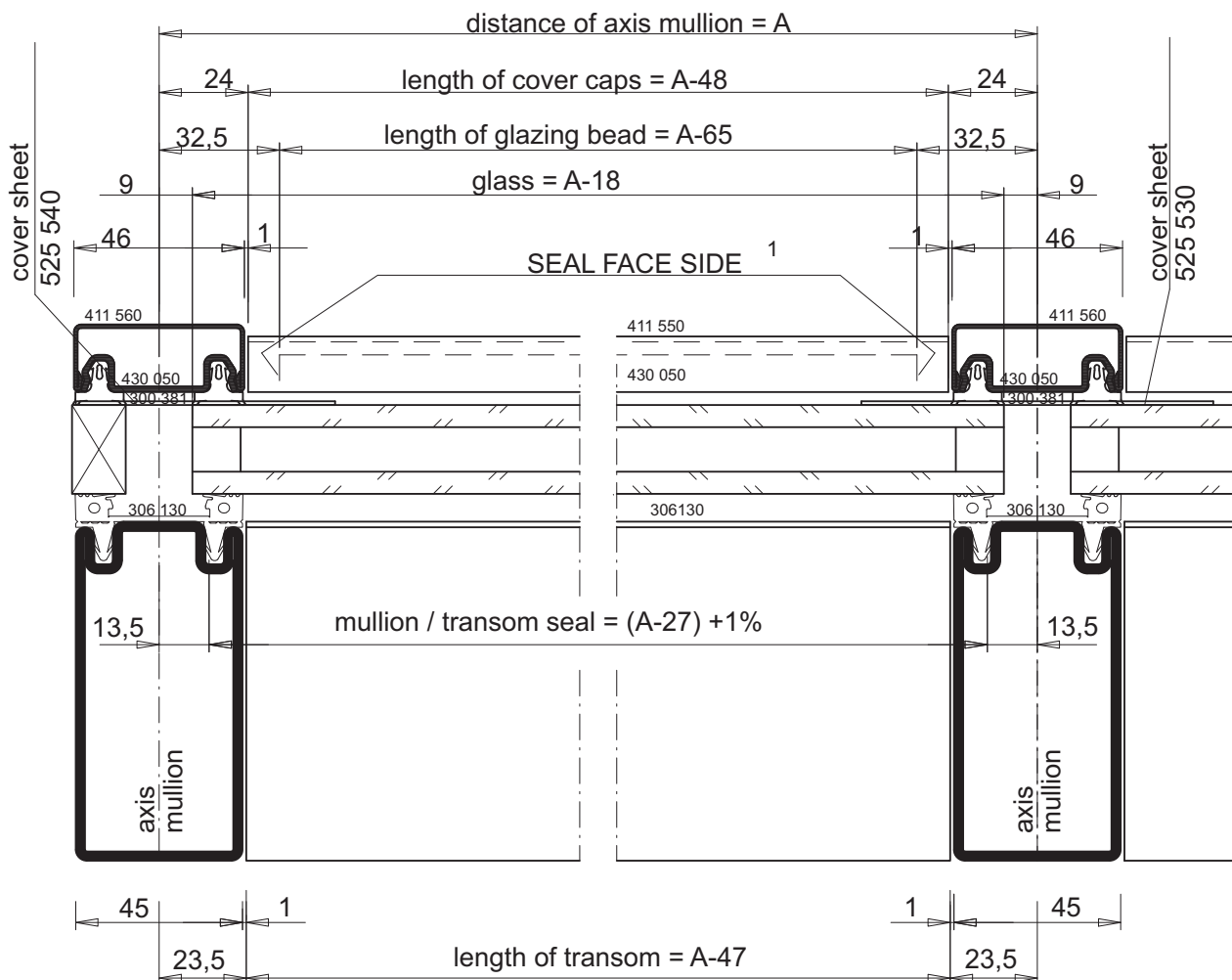
Production memo
deduction list

VERSION 12

cover cap - mullion part.no.. 411 560
cover cap - transom part.no. 411 550
glazing bead - mullion part.no. 430 050
glazing bead - transom part.no. 430 050

ATTENTION!

1.distance of axis min.460 mm
smaller distance - special design on request



1)- e.g. with Terostat-MS 930

material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401 , cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

5-01-12

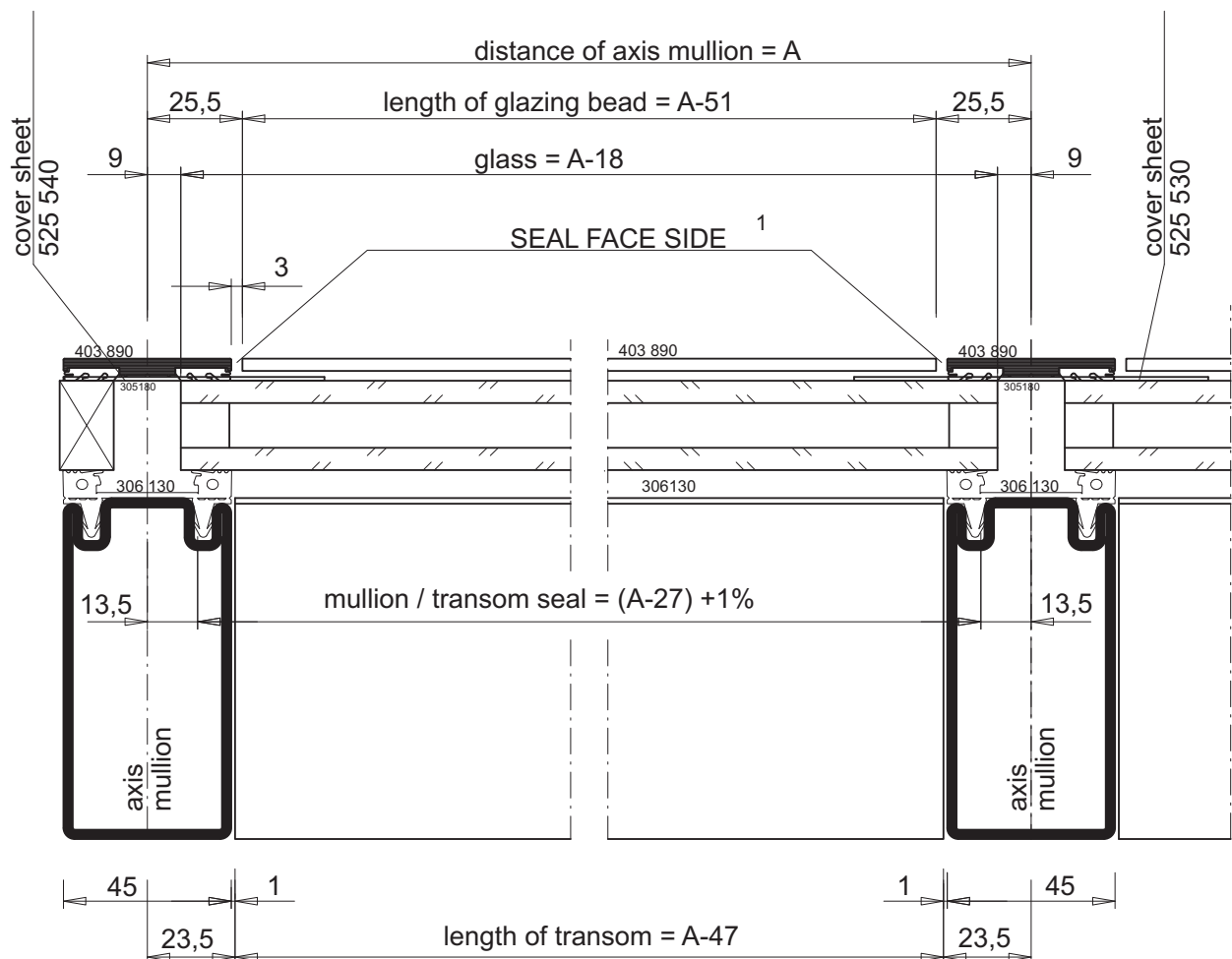
Production memo
deduction list

VERSION 13

glazing bead - mullion part.no. 403 890
glazing bead - transom part.no. 403 890

ATTENTION!

1. distance of axis min. 460 mm
smaller distance - special design on request



1) - e.g. with Terostat-MS 930

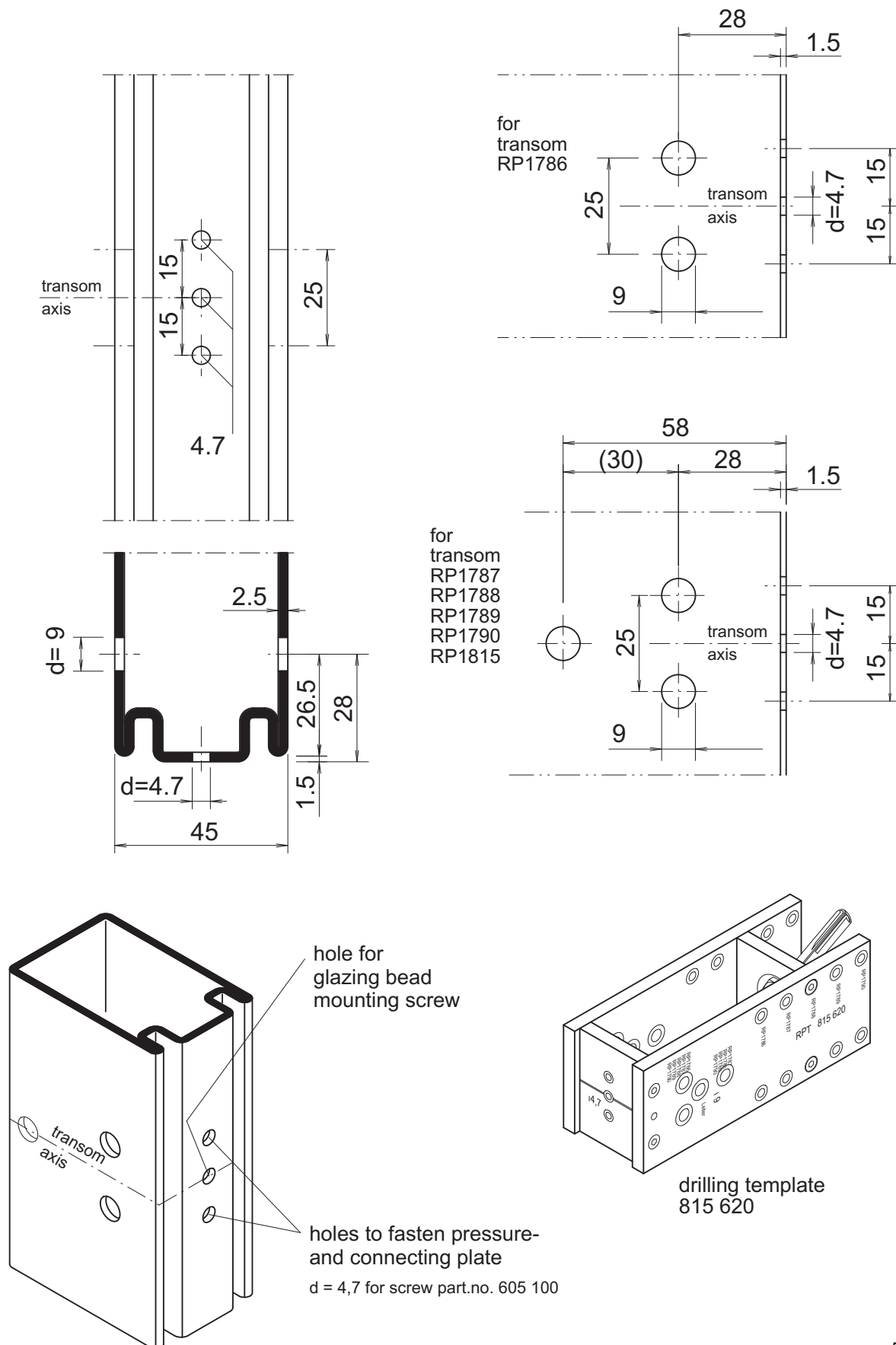
material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401, cover caps sanded with grain 240

M 1:2

- E.E. and we reserve the right to effect modifications -

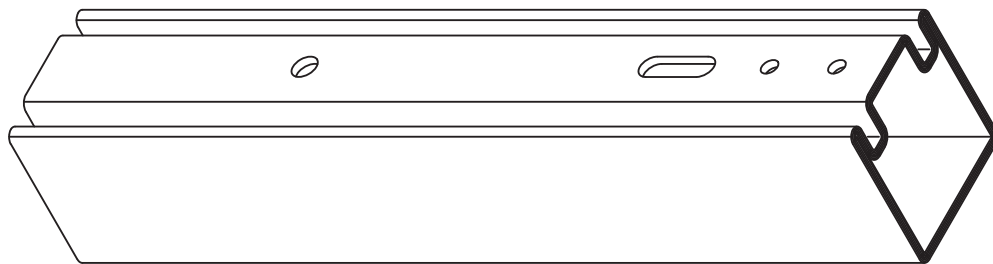
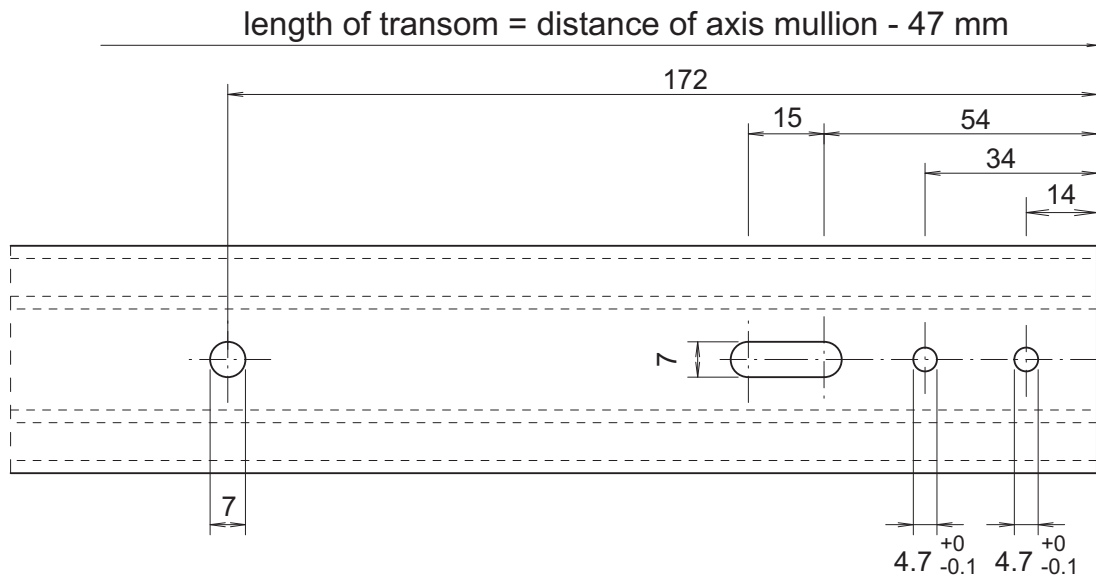
5-01-13

Mullion machining



Transom machining

1 mm rebate between mullion - transom

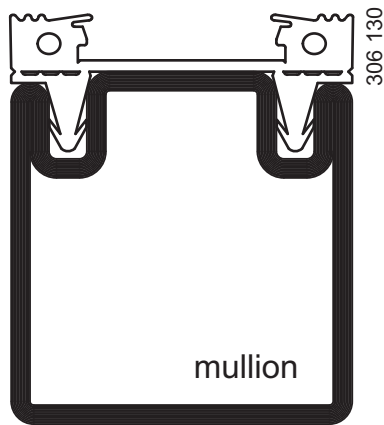
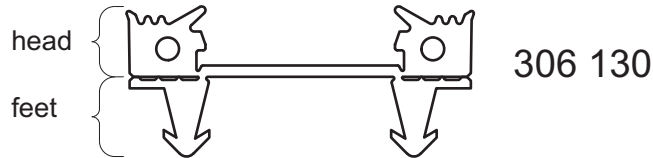


punching tool for transoms
805 311

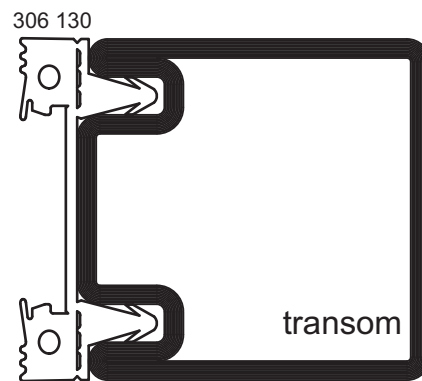


drilling template for transoms
815 630

Mullion- / transom seal
combination seal - one seal for mullion and transom

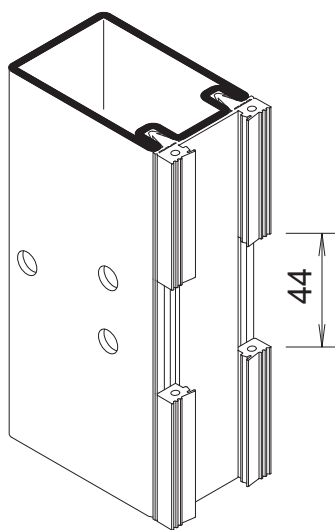


as mullion seal

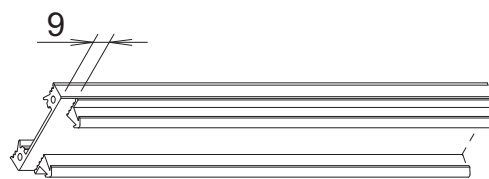


as transom seal

machining for seal overlapping in cascade form



mullion
cut-out the head

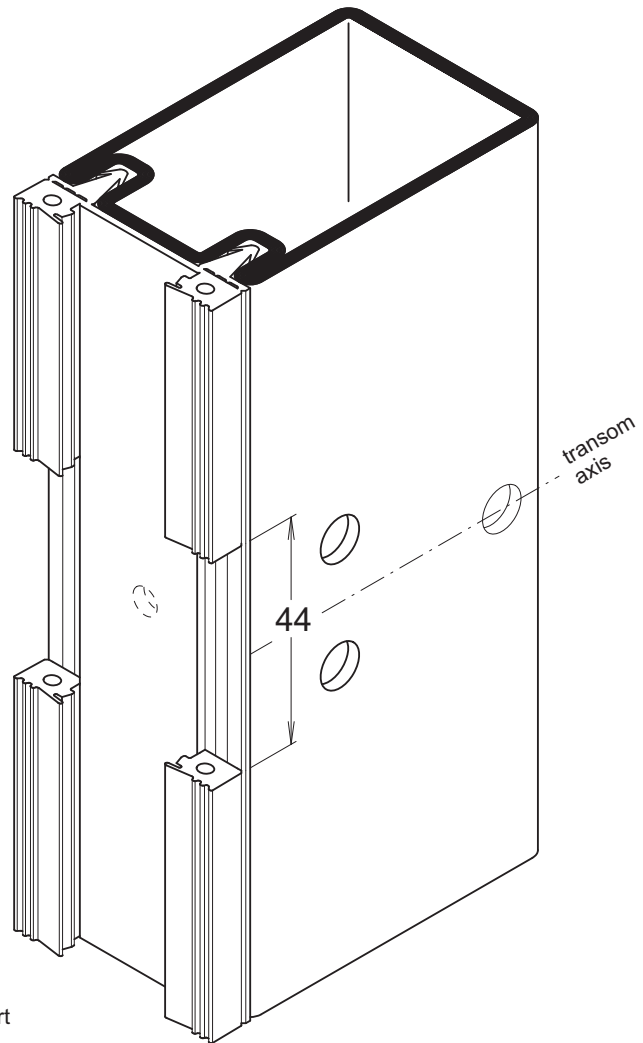
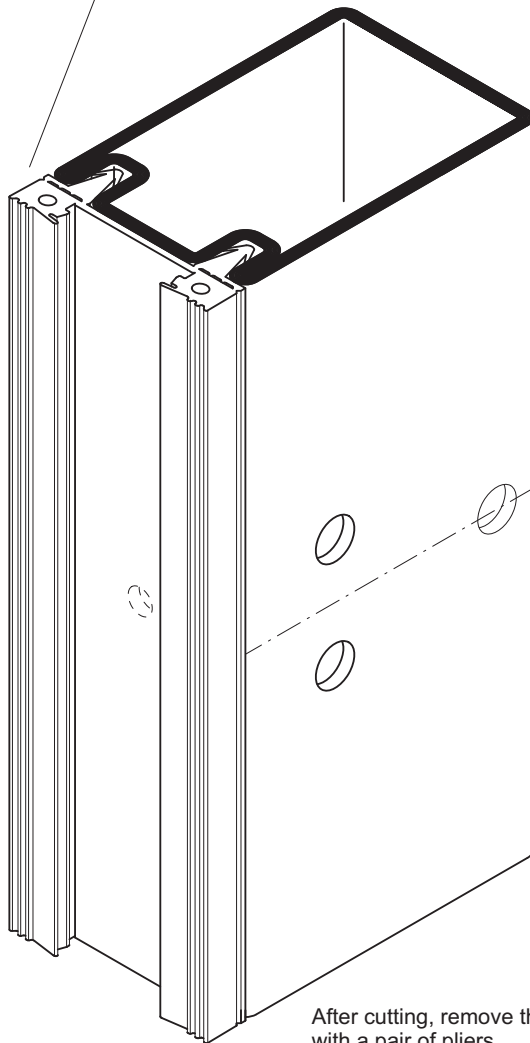


transom
cut-out the base

Mullion seal
cutting, mounting, cut-outs

306 130

seal length = mullion length + 1%



After cutting, remove the cut part
with a pair of pliers.
Hold down the seal to avoid damaging.



mullion seal cutter
805 320

place cutter in the mullion holes
for mounting the transom and
cut-out the transom seal



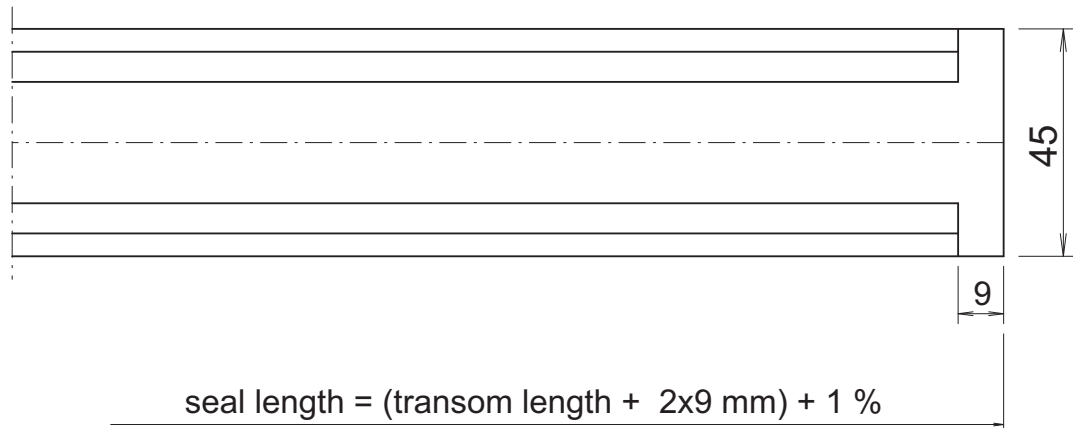
cutting template mullion seal
805 340

for mounted transoms

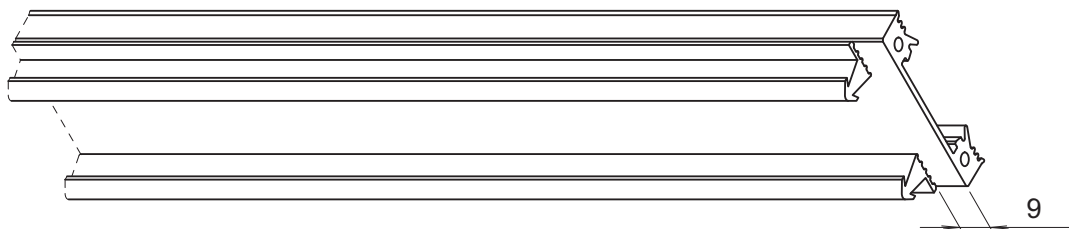
Transom seal

1. step: cutting and mounting

seal
306 130



end of seal after machining



punching template
transom seal
90° edge
805 330

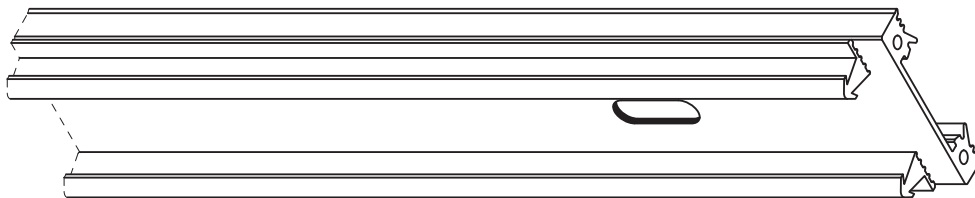
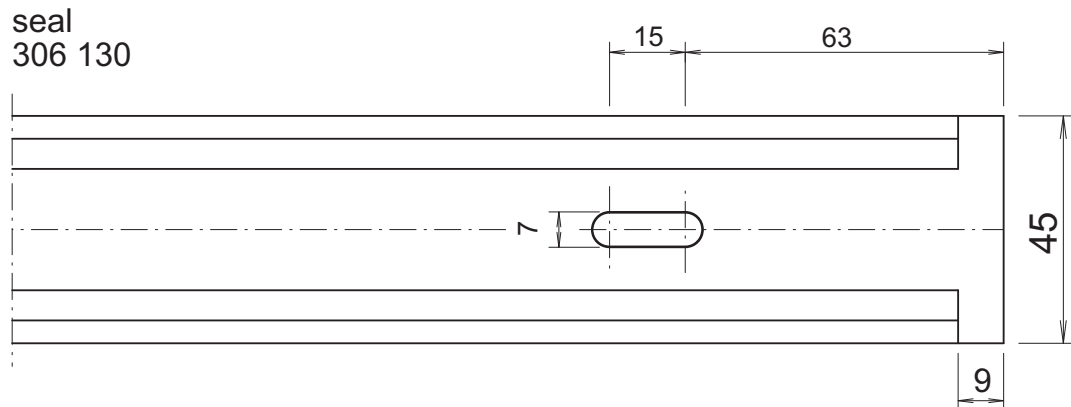
or



punching template transom seal
+/- 45° adjustable
805 152
and
length hand cutter transom seal
805 240

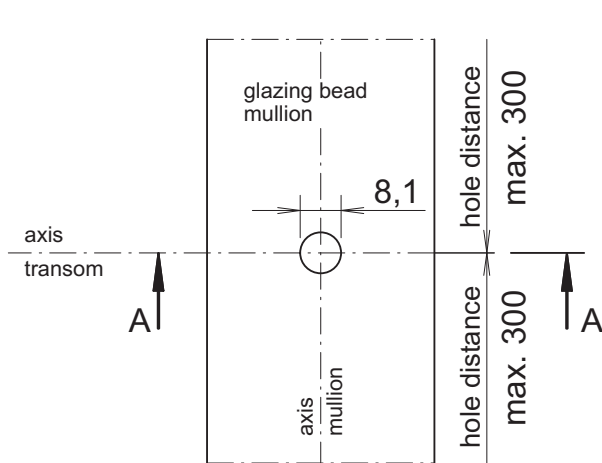


Transom seal
2. step: slot hole cut-out

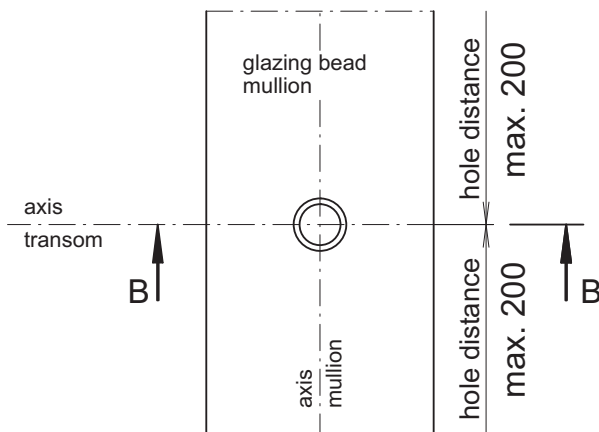
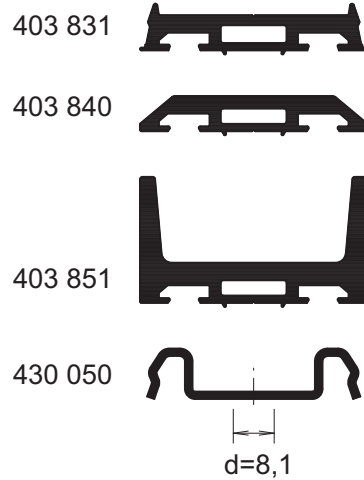


transom seal cutter for
 manual cutting of slot holes
 805 360

Machining glazing beads mullion



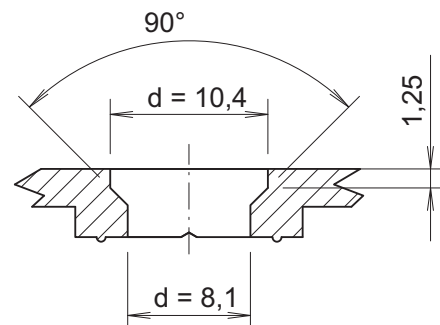
section A-A



section B-B



detail Z (M 2:1)

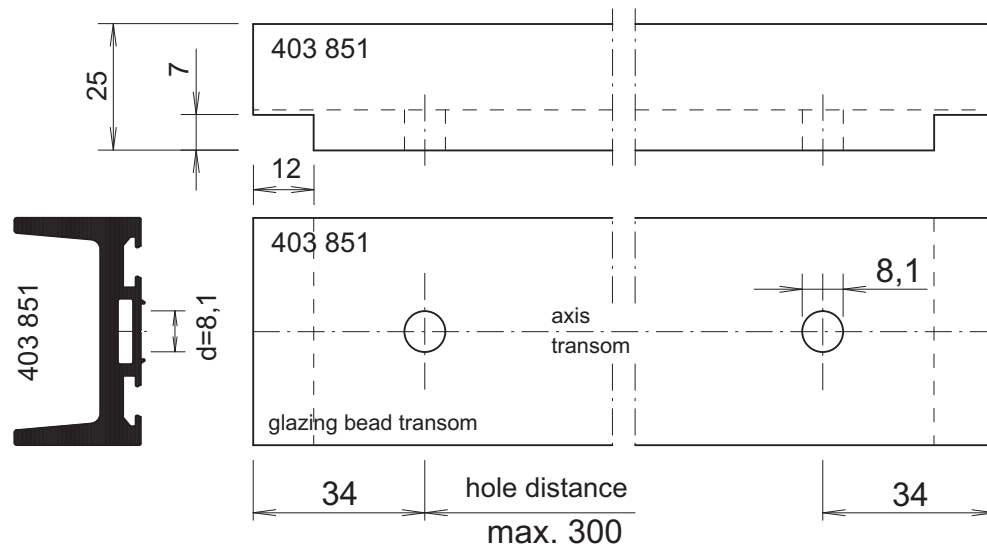
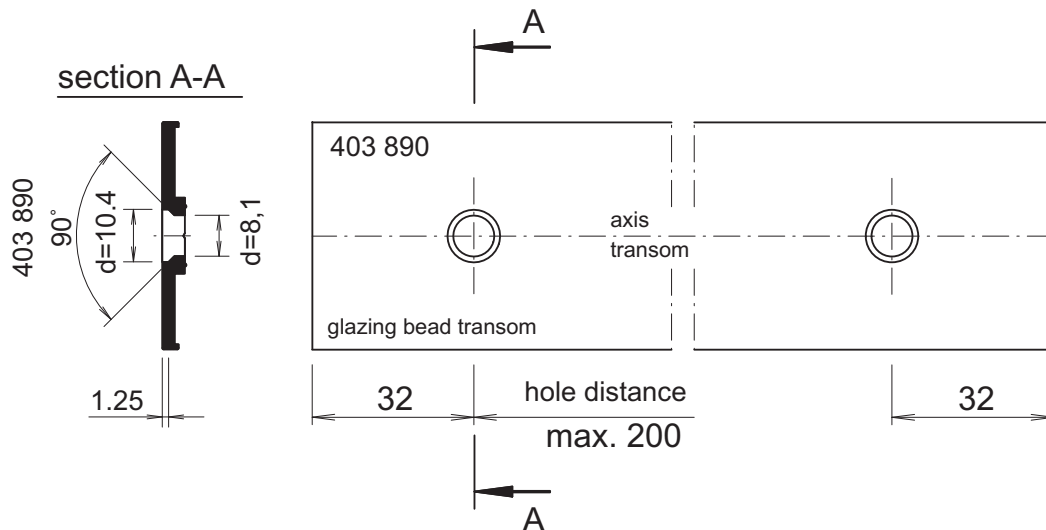
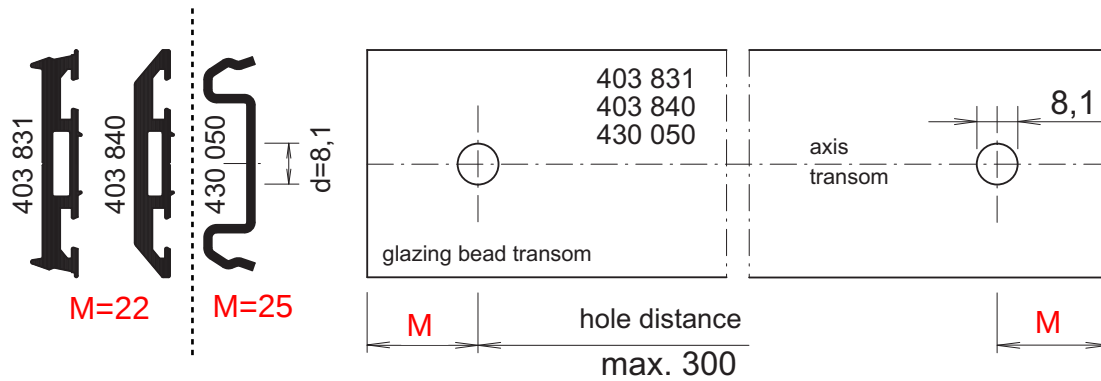


material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401 , cover caps sanded with grain 240

- E.E. and we reserve the right to effect modifications -

5-05-1

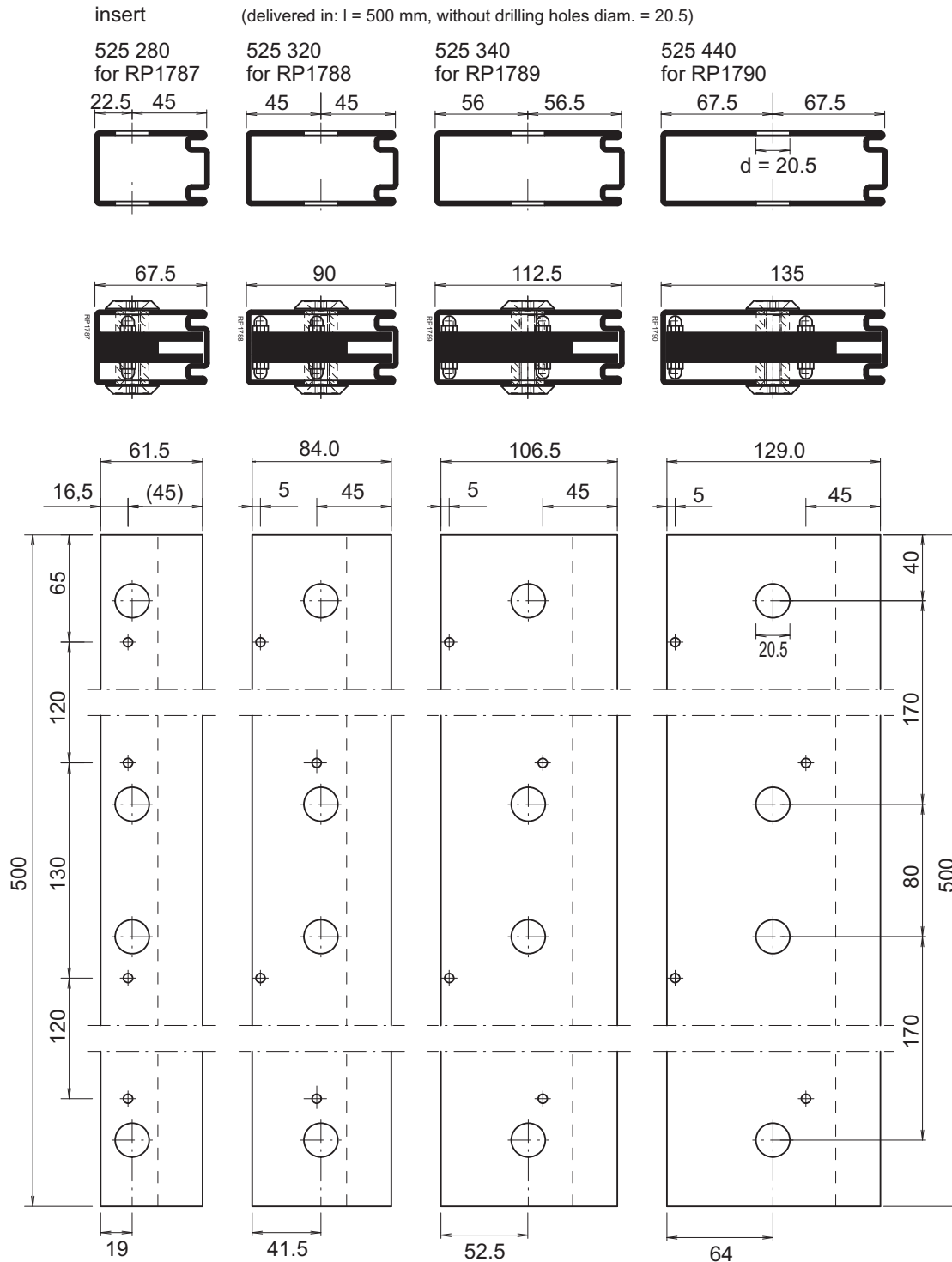
Machining glazing bead transom



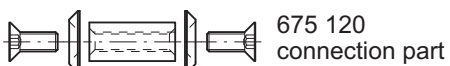
material
aluminium: AlMgSi05F22 - anodisable
stainless steel: 1.4401 , cover caps sanded with grain 240

Inserts

example for mullion joint



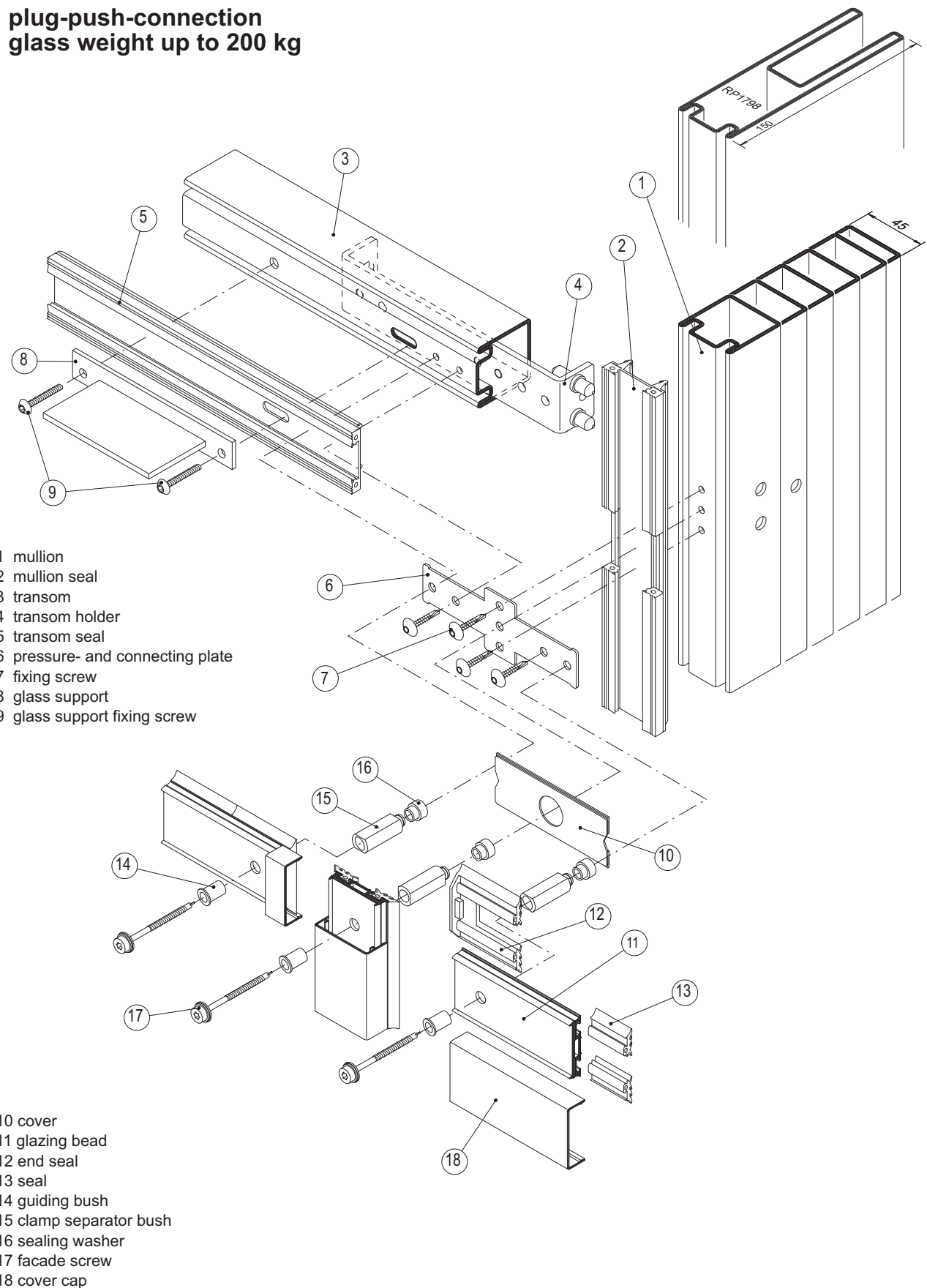
The inserts and the connection with the connection parts (number and distances) must be proven through a stress analysis. The given measures are for an example only.



The inserts can be used without further machining for transom connections, because they do not collide with the bolts of the transom holder.

Installation process

plug-push-connection
glass weight up to 200 kg



- 10 cover
- 11 glazing bead
- 12 end seal
- 13 seal
- 14 guiding bush
- 15 clamp separator bush
- 16 sealing washer
- 17 facade screw
- 18 cover cap

illustration without filling

6-01

Installation process

screw-plug-connection
glass weights up to 200 kg

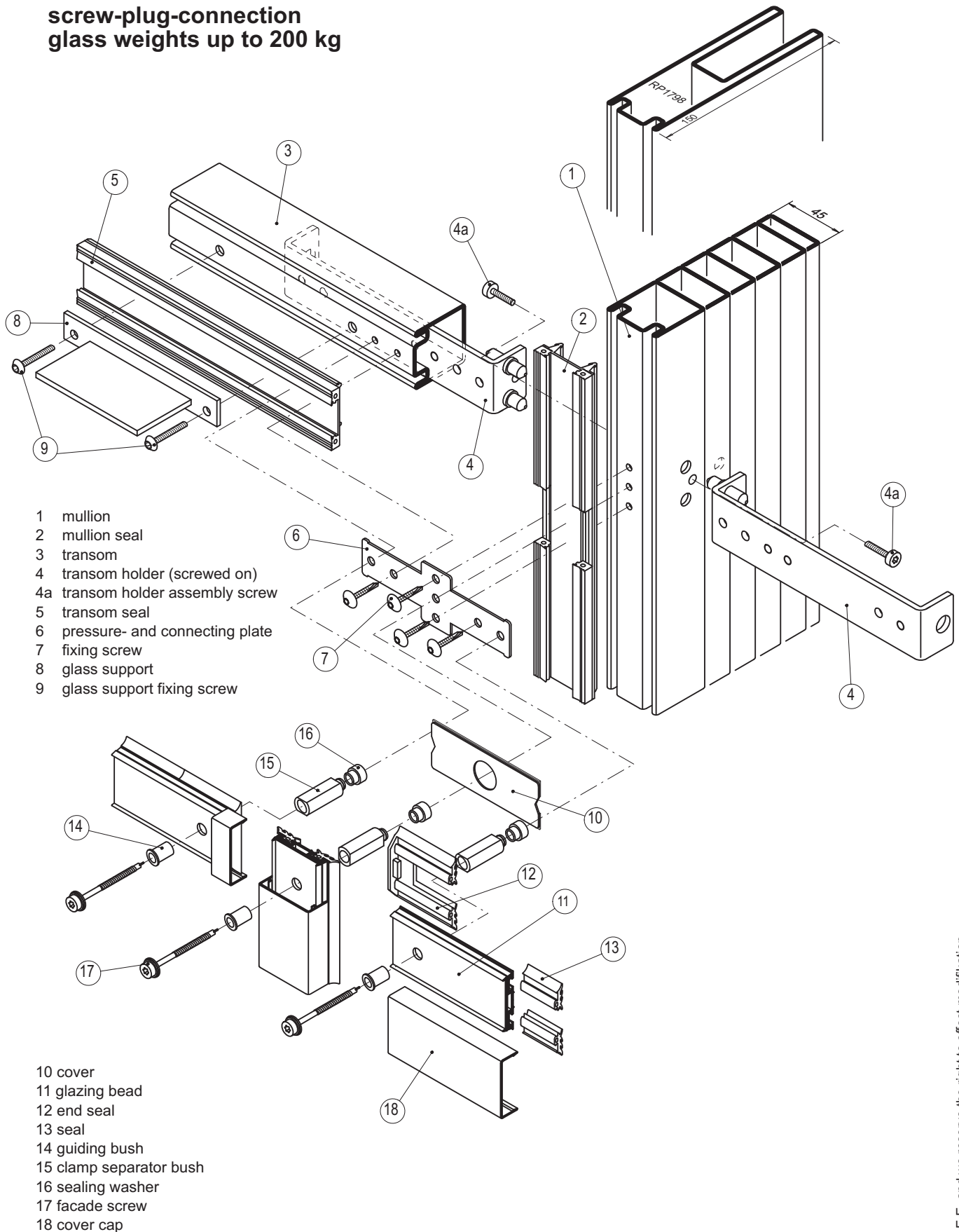
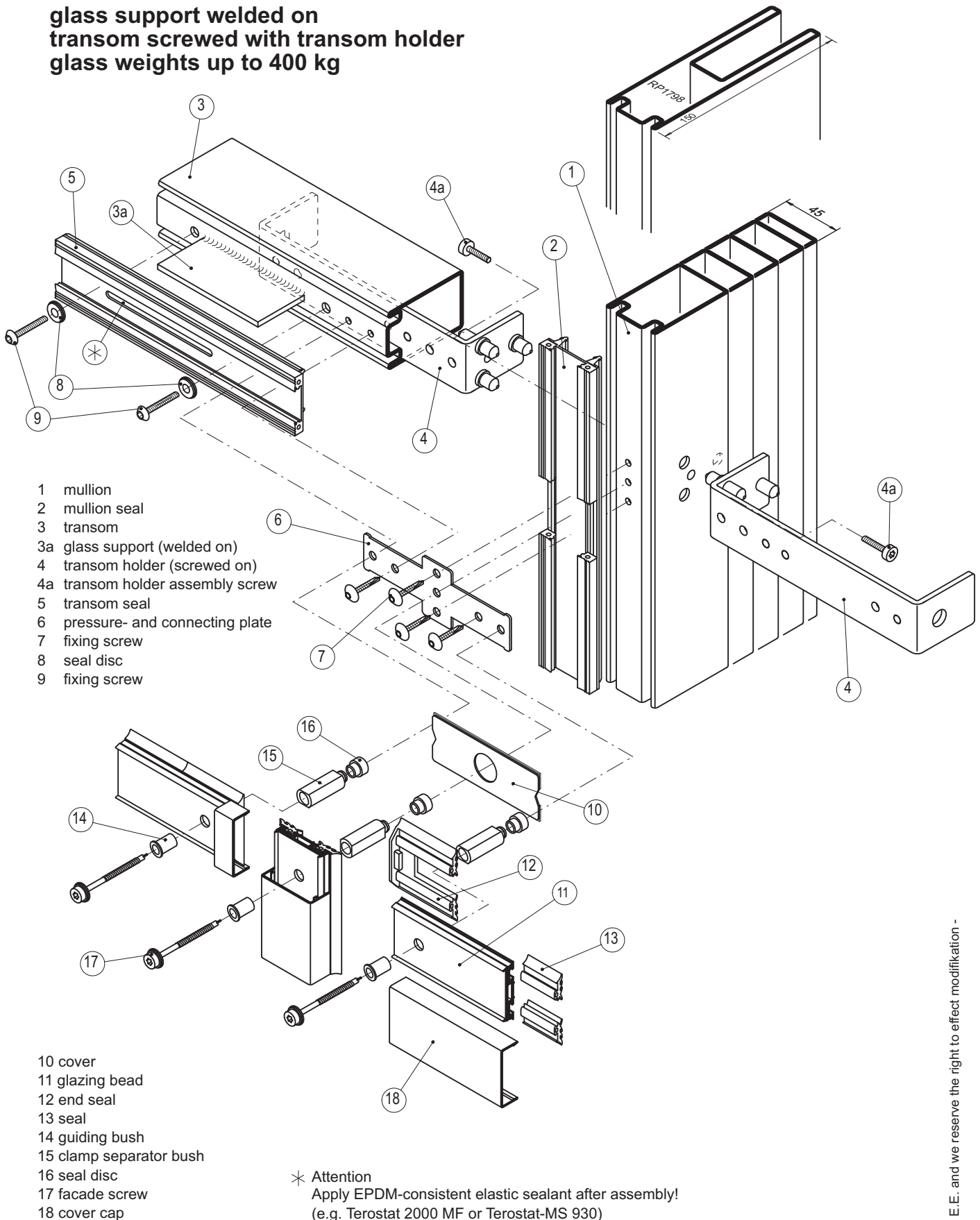


illustration without filling

6-01-1

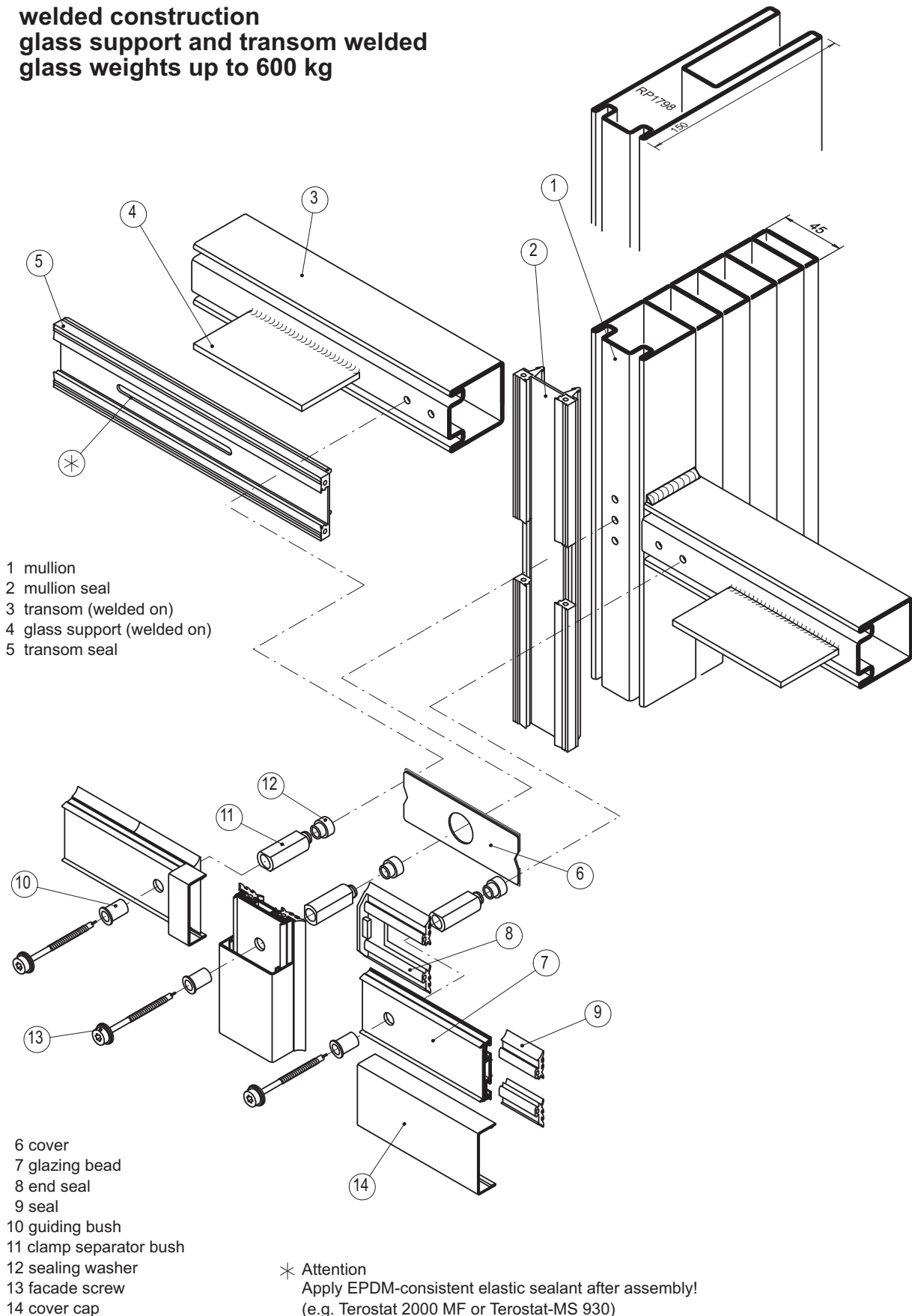
Installation process

glass support welded on
transom screwed with transom holder
glass weights up to 400 kg

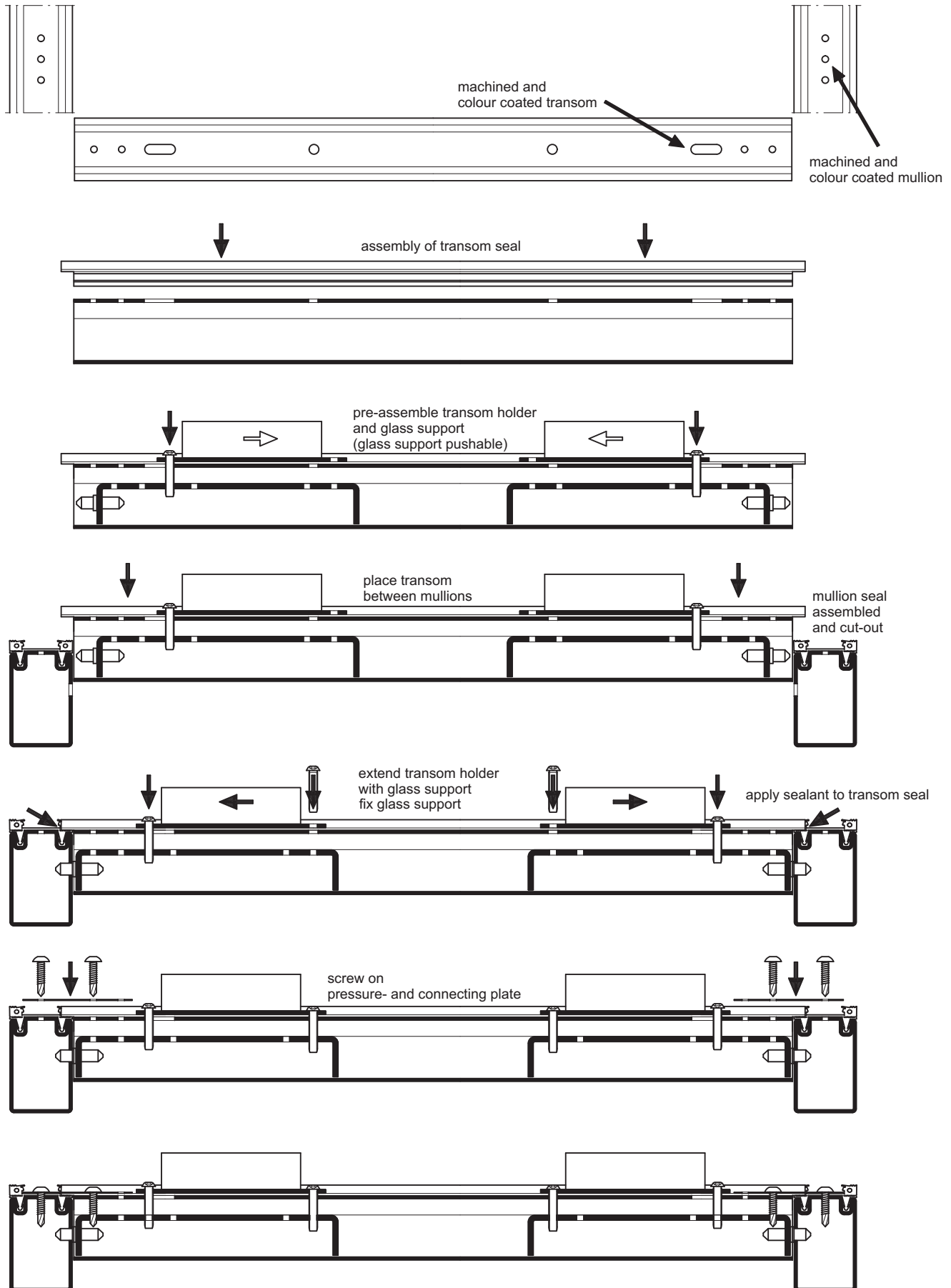


Installation process

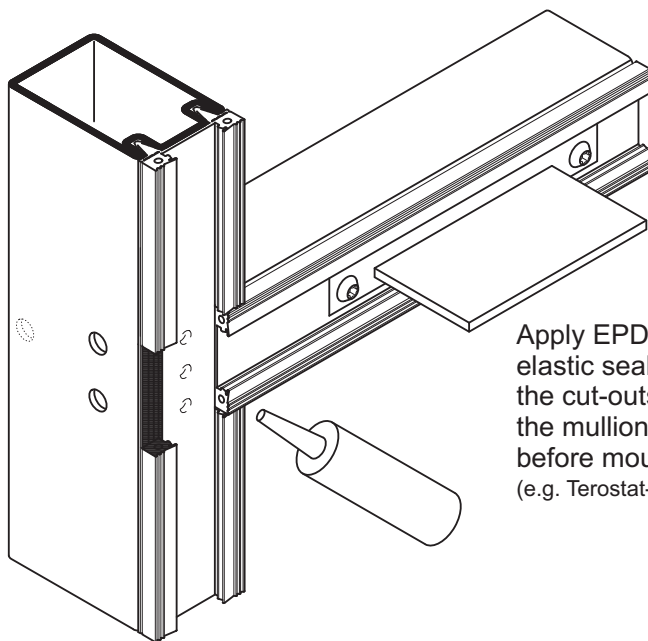
welded construction
glass support and transom welded
glass weights up to 600 kg



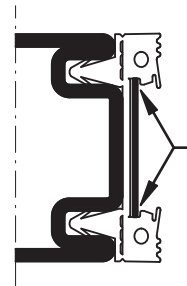
Transom and glass support assembly



Transom assembly
sealing mullion- / transom seal

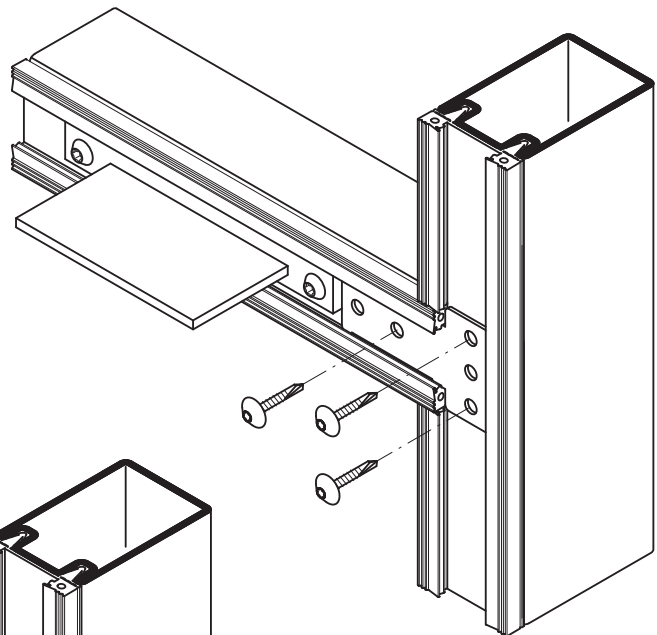
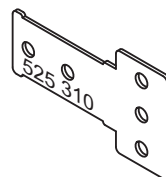


Apply EPDM-consistent
elastic sealant on
the cut-outs of
the mullion seal
before mounting.
(e.g. Terostat-MS 930)

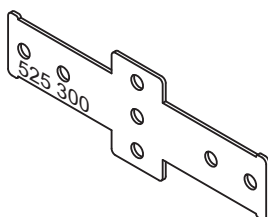


put pressure- and
connecting plates
in transom seal

T-joint



intersection

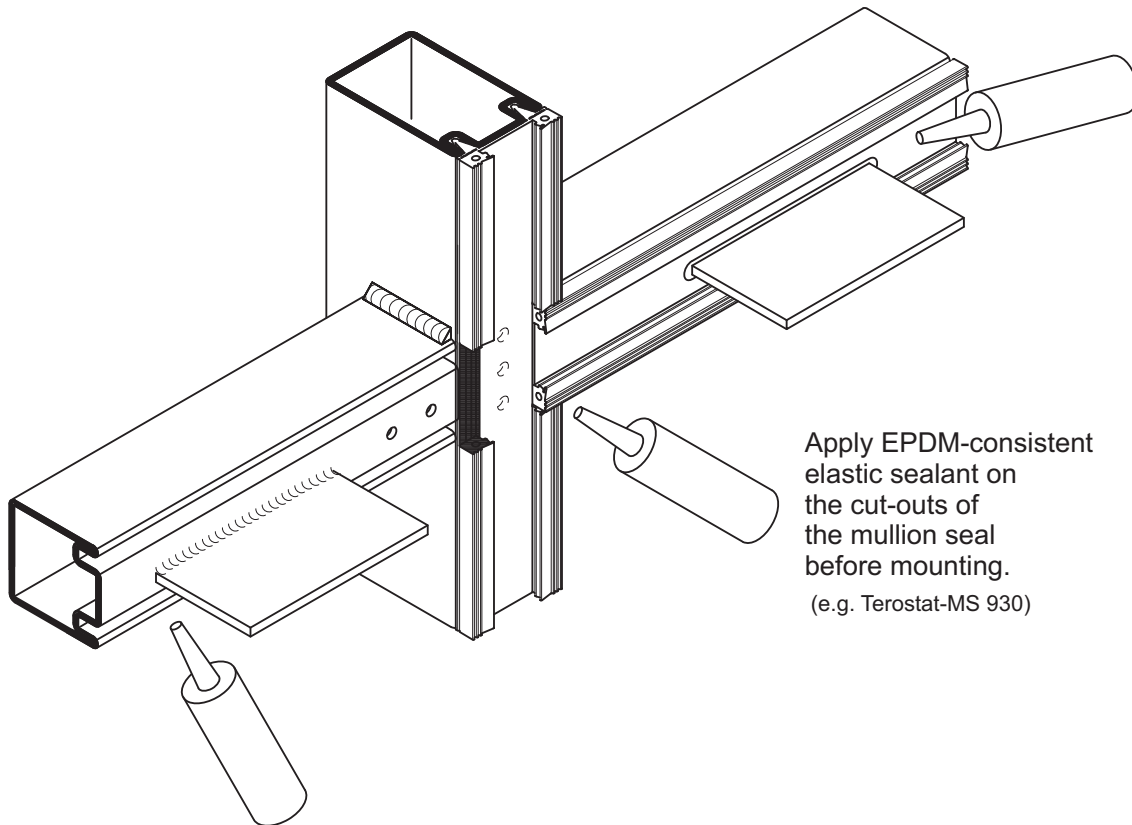


Fix pressure- and connecting plates
with screws part.no. 605 100

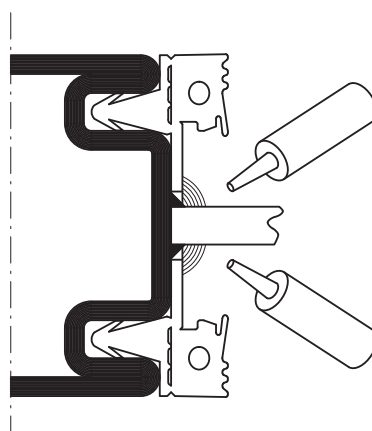
- E.E. and we reserve the right to effect modification -

Assembly

sealing mullion- / transom seal
on welded construction



Apply EPDM-consistent
elastic sealant on
the cut-outs of
the mullion seal
before mounting.
(e.g. Terostat-MS 930)



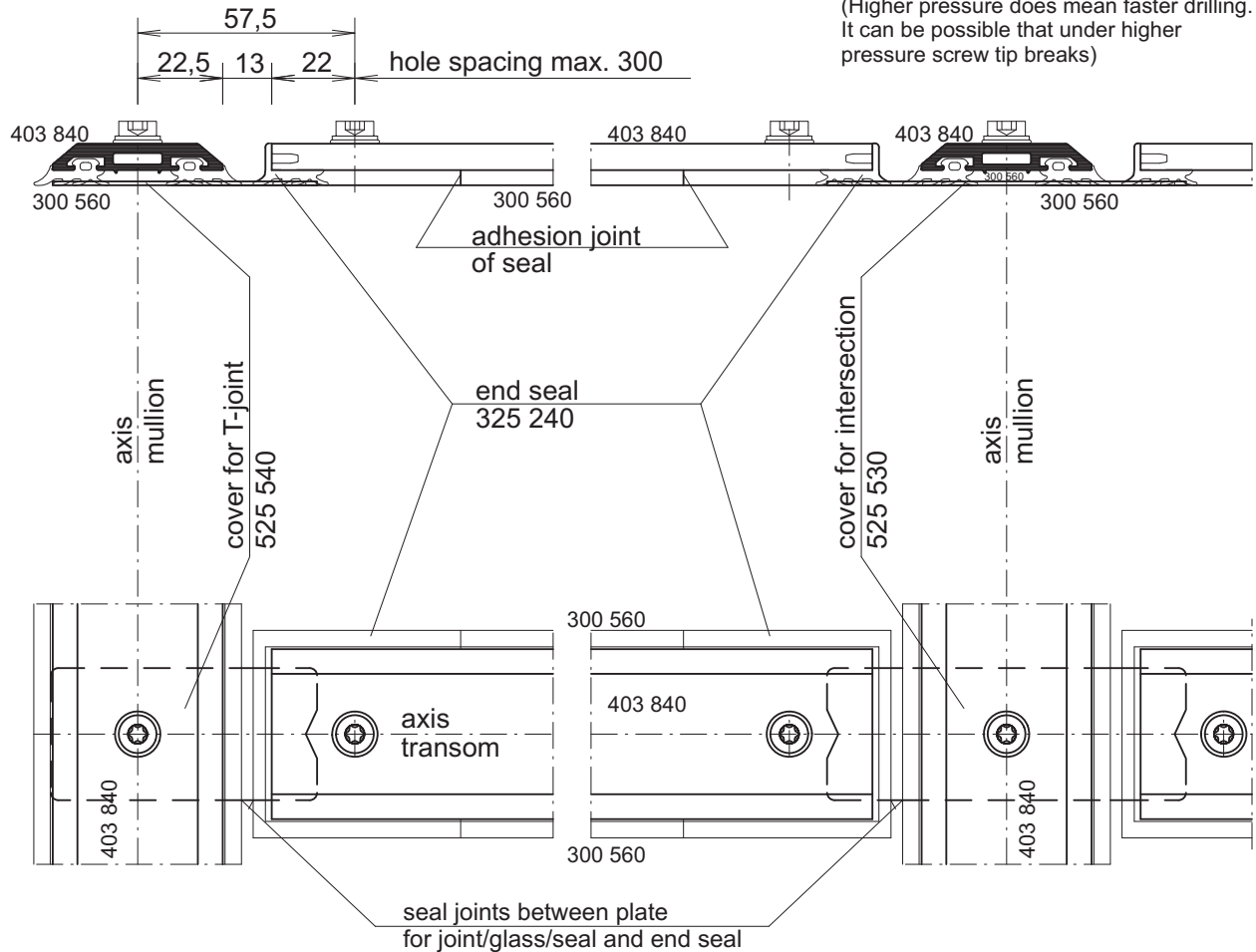
Apply EPDM-consistent
elastic sealant into
the released area at
the glazing support.
(e.g. Terostat-MS 930)

**Machining - intersection and T-joint cover
glazing bead 403 840**

Recommendation to
handle screws:

min. rpm at max. load:
> U/min. 1500

Pressure on screws less than 30 kg.
(Higher pressure does mean faster drilling.
It can be possible that under higher
pressure screw tip breaks)

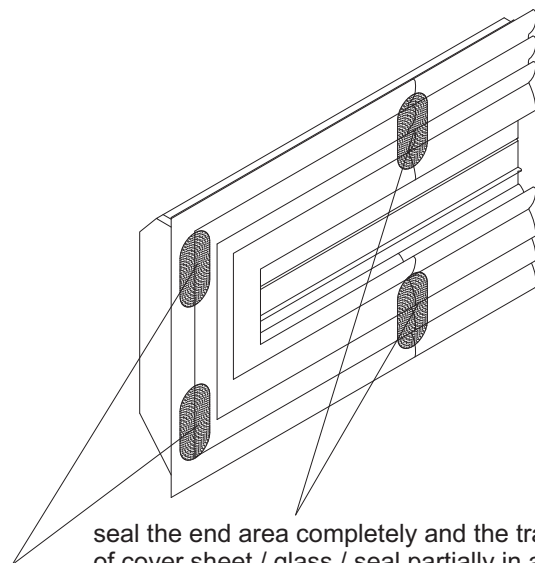


Apply the intersection cover with
the self-adhesive film on the back-side
centered on to the glass panes.

With multi-faceted facades,
the cover has to be bent
into the right form.

Seal end seal (part.no. 325 240) with
glazing seal (part.no 300 560) in a
permanent elastic and EPDM-compatible way.

(e.g. with Terostat-MS 9360).



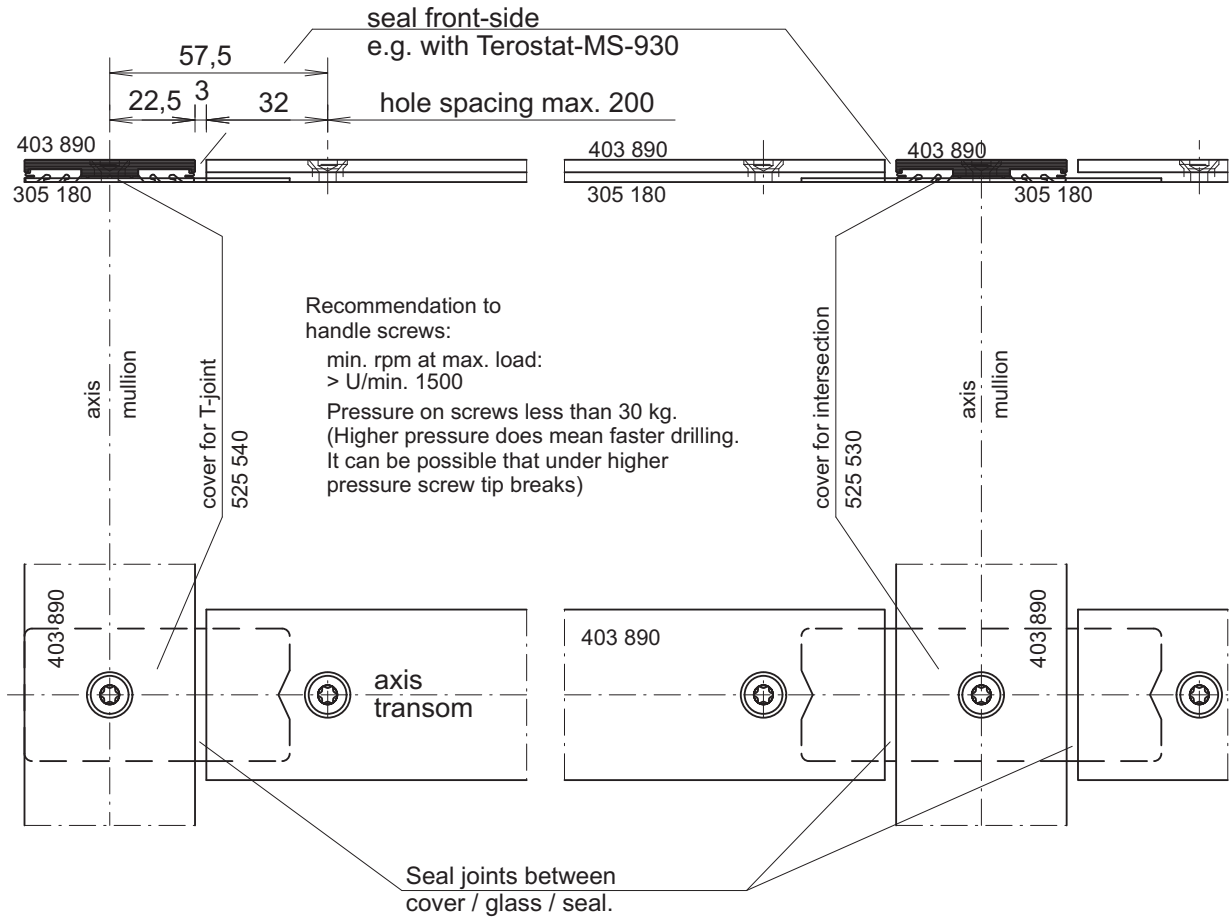
seal the end area completely and the transitions
of cover sheet / glass / seal partially in a
permanent elastic and EPDM-compatible way.

(e.g. with Terostat-MS 930)

M 1:2

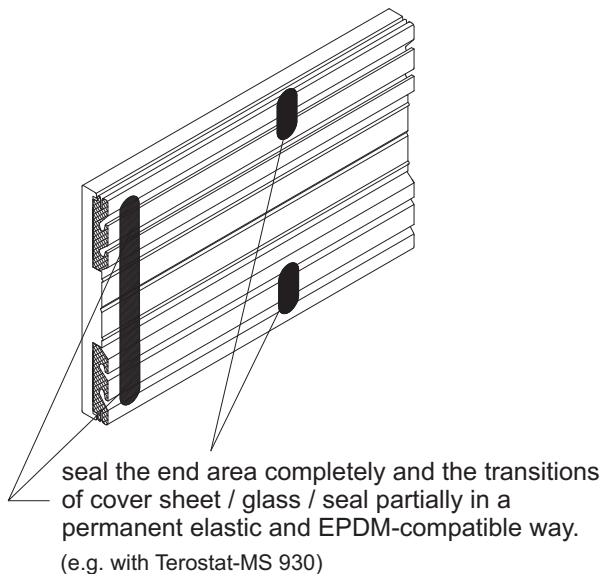
6-05-1

Machining - intersection and T-joint cover glazing bead 403 890

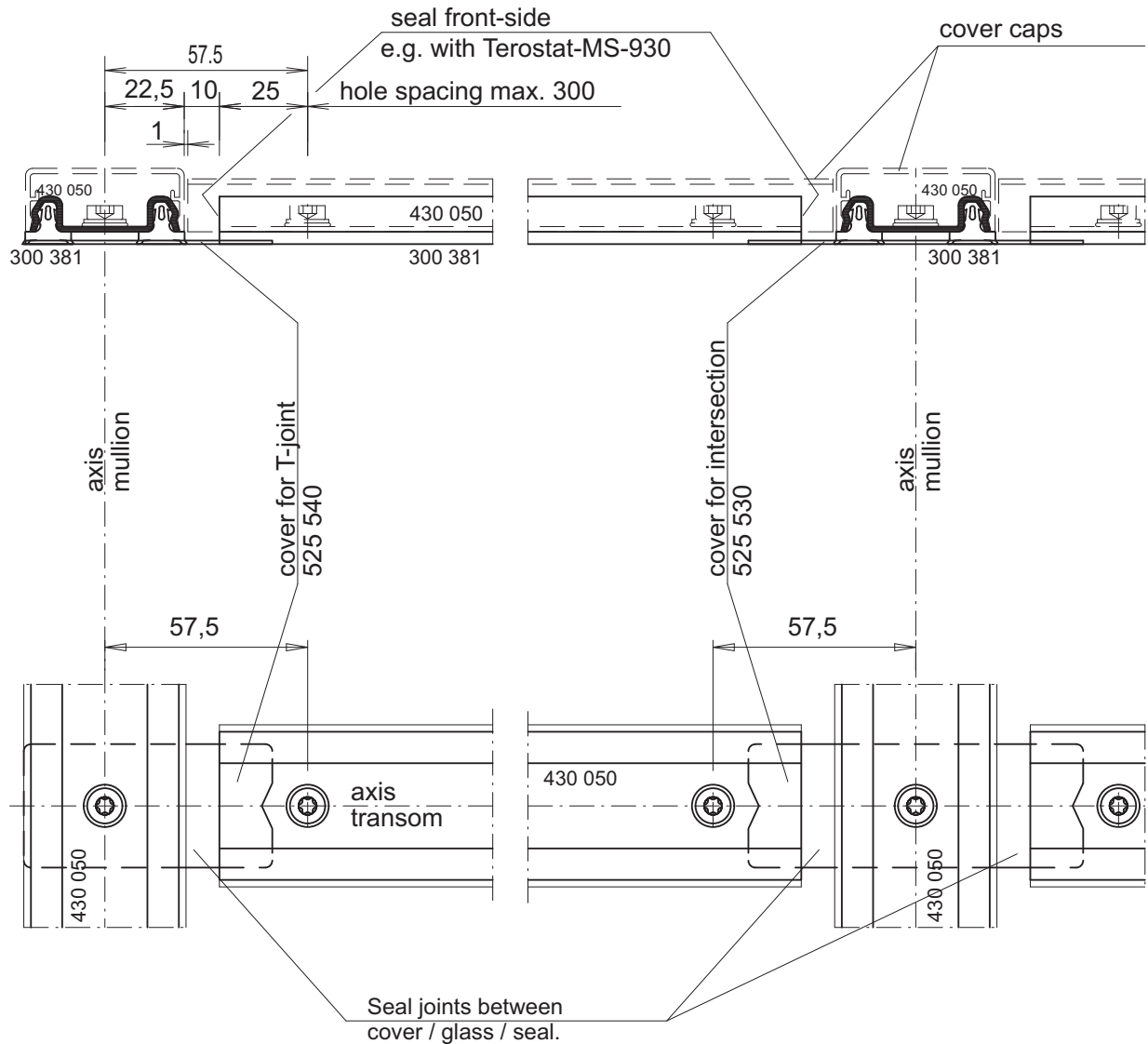


Apply the intersection cover with the self-adhesive film on the back-side centered on to the glass panes.

With multi-faceted facades, the cover has to be bent into the right form.



Machining - intersection and T-joint cover
glazing bead 430 050



Apply the intersection cover with
the self-adhesive film on the back-side
centered on to the glass panes.

With multi-faceted facades,
the cover has to be bent
into the right form.

Recommendation to
handle screws:

min. rpm at max. load:
> U/min. 1500

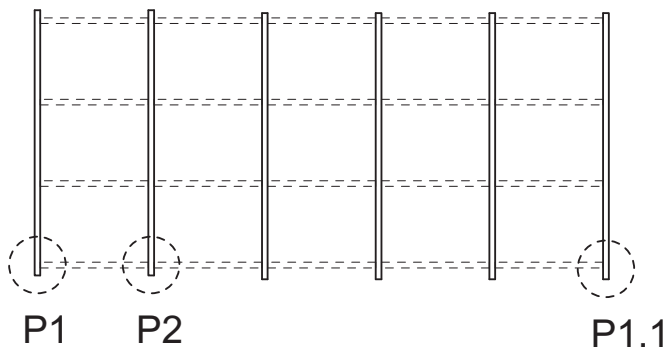
Pressure on screws less than 30 kg.
(Higher pressure does mean faster drilling.
It can be possible that under higher
pressure screw tip breaks)

Assembly

assembly variations
plug-push-connection
screw-plug-connection

mullion-transom assembly

see page: 6-06-1

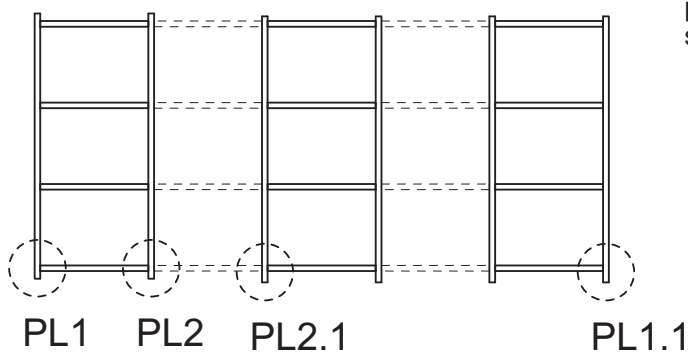


plug-push-connection

Set mullions at required distance. Fix mullions.
Place transom between the mullions.

“ladder-type” assembly

see page: 6-06-2

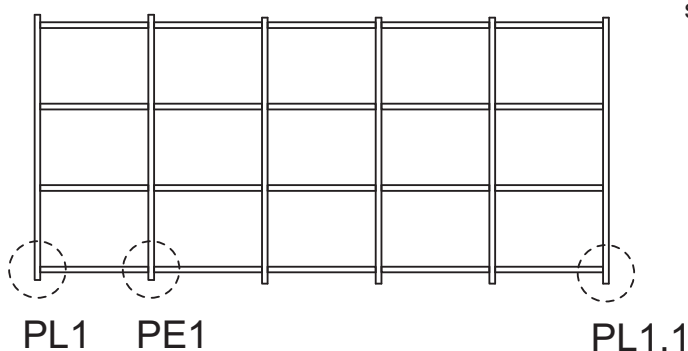


plug-push-connection
screw-plug-connection

Pre-fabricate the components in the workshop. Place components at required distance. Fix components.
Place the transom between the pre-fabricated components.

component assembly

see pages: 6-06-3 , 6-06-2



screw-plug-connection

Pre-fabricate complete components in the workshop. Install components.

Assembly

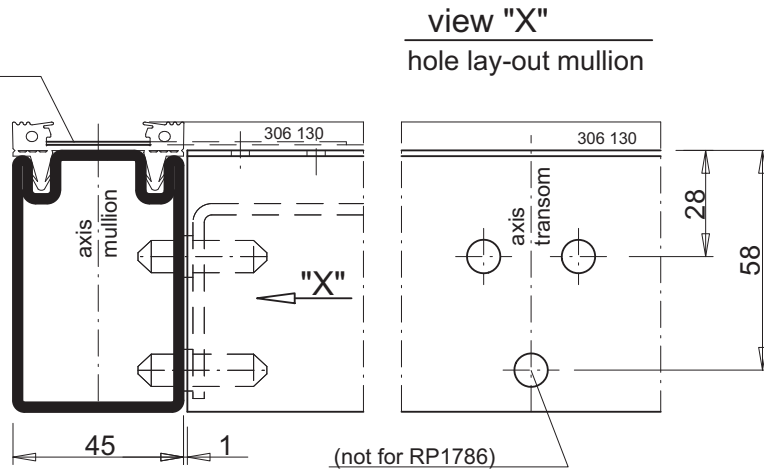
plug-push-connection

mullion-transom-assembly

detail P1

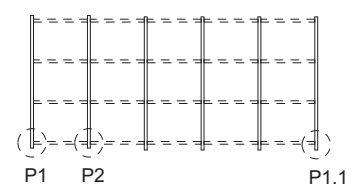
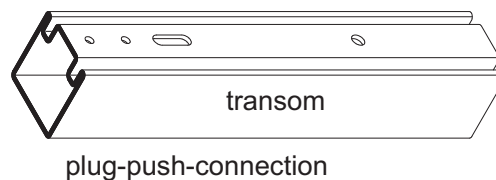
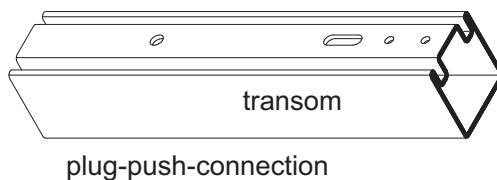
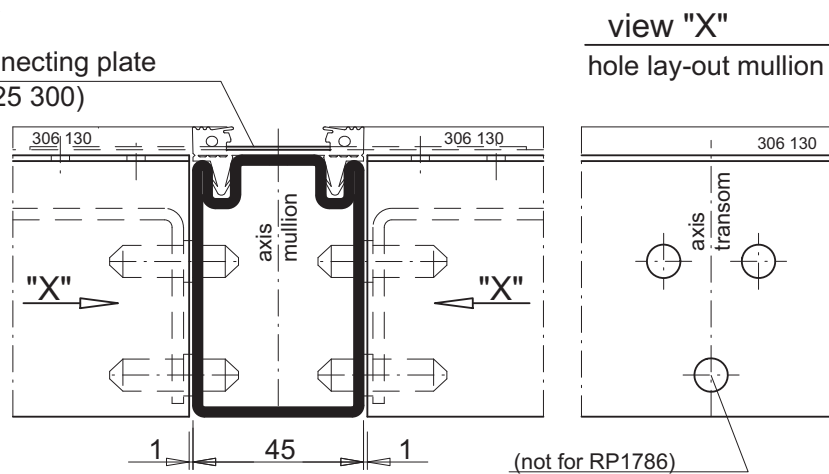
detail P1.1 - mirror-inverted

pressure- and connecting plate
for T-joint (525 310)



detail P2

pressure- and connecting plate
for intersection (525 300)



Assembly

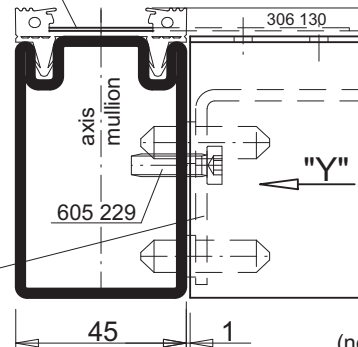
“ladder-type” assembly (PL1 and PL2) component assembly (PL1)

detail PL1

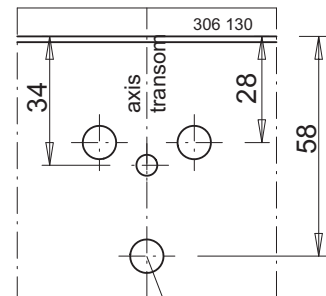
detail PL1.1 - mirror-inverted

pressure- and connecting plate
for T-joint (525 310)

Mount transom holder in
the workshop!



view "Y" hole-lay-out mullion



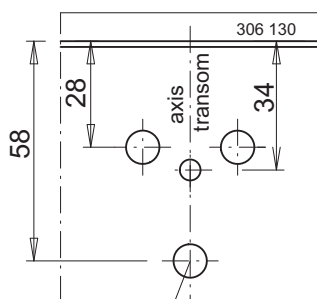
(not for RP1786)

screw-plug-connection

detail PL2

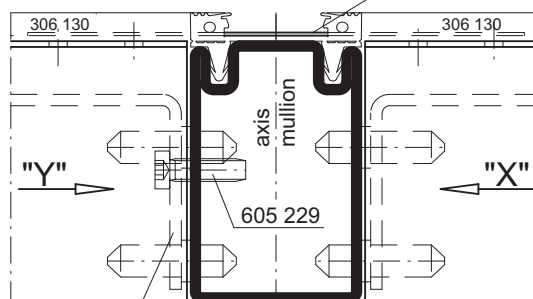
detail PL2.1 - mirror-inverted

view "Y" hole lay-out mullion

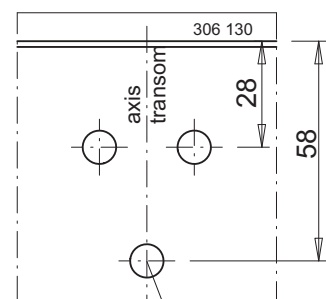


(not for RP1786)

pressure- and connecting plate
for intersection (525 300)

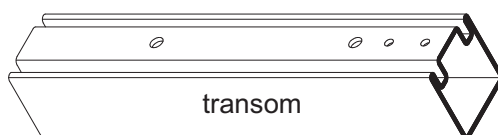


view "X" hole lay-out mullion

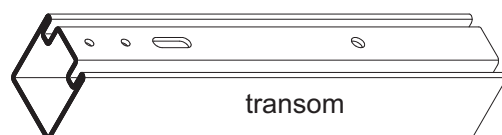


(not for RP1786)

Mount transom holder
in the workshop!



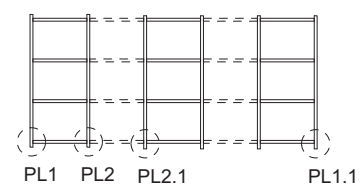
screw-plug-connection



plug-push-connection

Attention!

In combination with RP-inserts:
mount screw 605 229 (M6 x20)
with washer or use M6 x15.



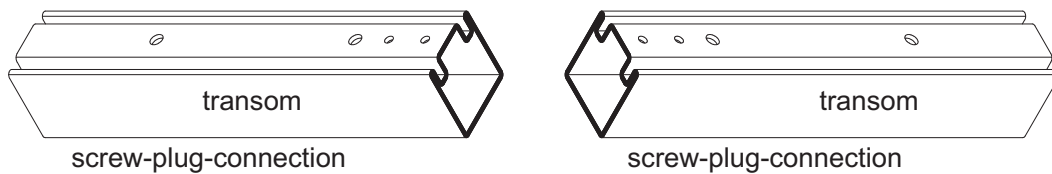
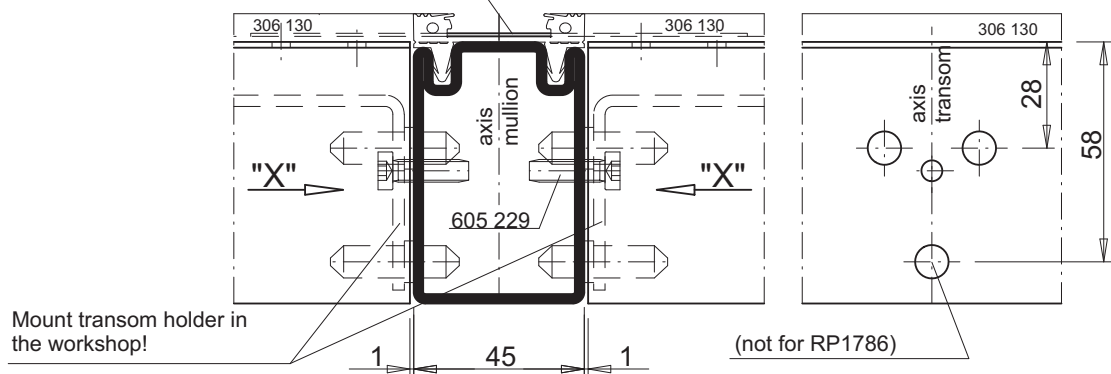
Assembly
screw-plug-connection
component assembly

detail PE1

detail PL1 (PL1.1) page 6-06-2

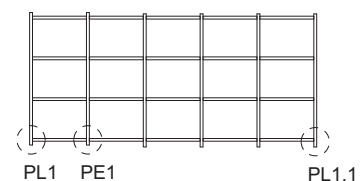
pressure- and connecting plate
for intersection (525 300)

view "X"
hole lay-out mullion



Attention!

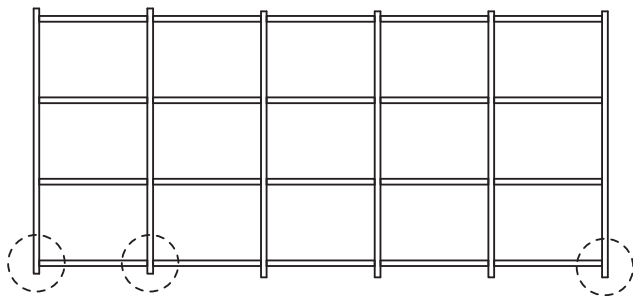
In combination with RP-inserts:
mount screw 605 229 (M6 x20)
with washer or use M6 x15.



Assembly
assembly variations
welded construction

component assembly

see page: 6-07-1



PES1 PES2

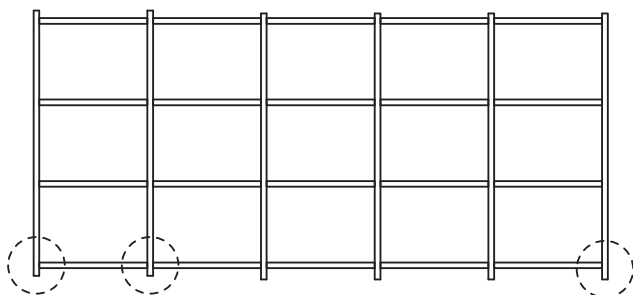
PES1.1

glass support welded
transom screwed with transom holder
screw-plug-connection

Pre-fabricate complete
components in the workshop.
Install components.

component assembly

see page: 6-07-2



PS1 PS1

PS1.1

glass support welded
transom welded

Pre-fabricate complete
components in the workshop.
Install components.

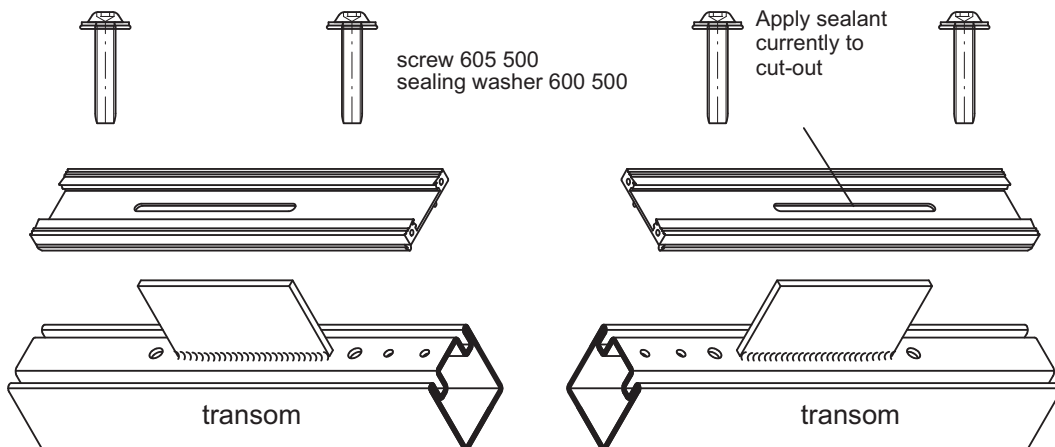
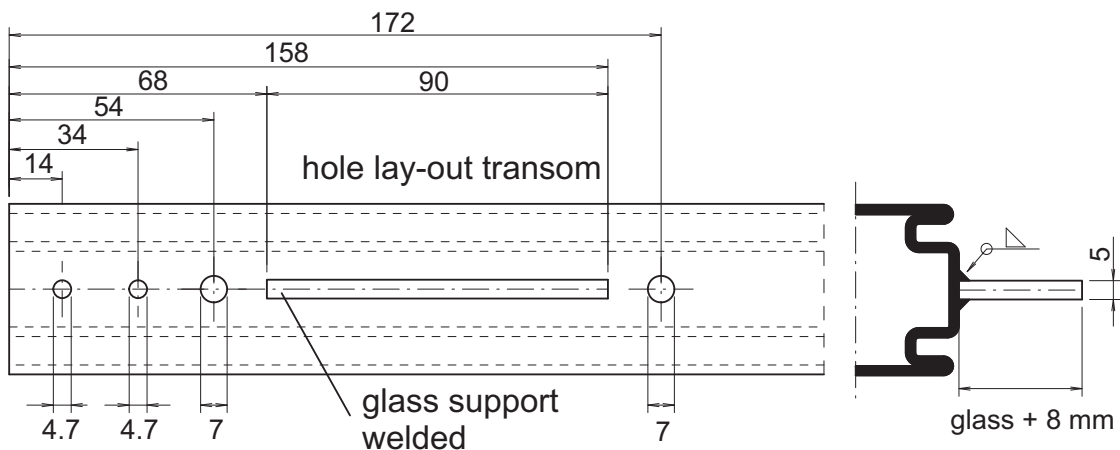
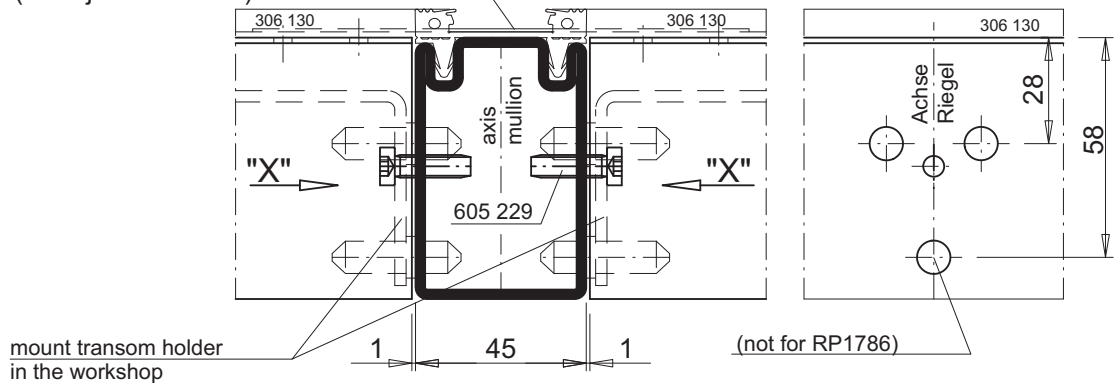
Assembly

plug-push-connection / component assembly
glass support welded
transom screwed with transom holder

detail PES2

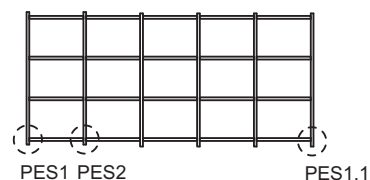
pressure- and connecting plate
for intersection (525 300)
(for T-joint 525 310)

view "X"
hole lay-out mullion



Attention!

In combination with RP-inserts:
mount screw 605 229 (M6 x20)
with washer or use M6 x15.



M 1:2

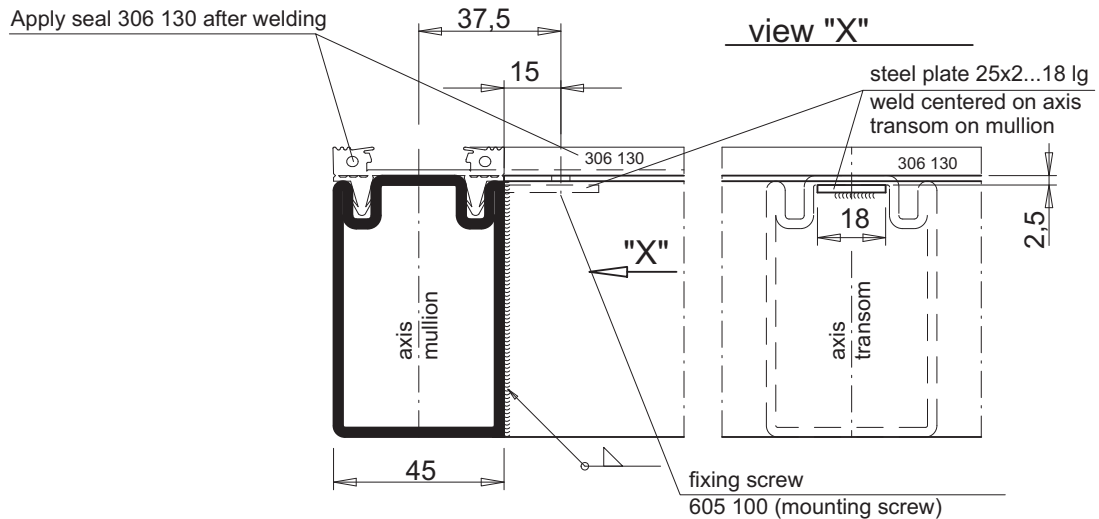
6-07-1

Assembly

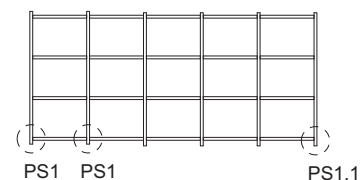
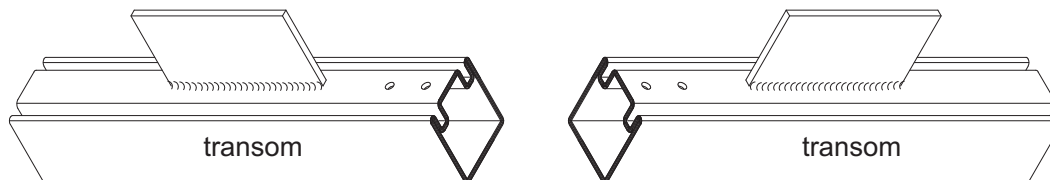
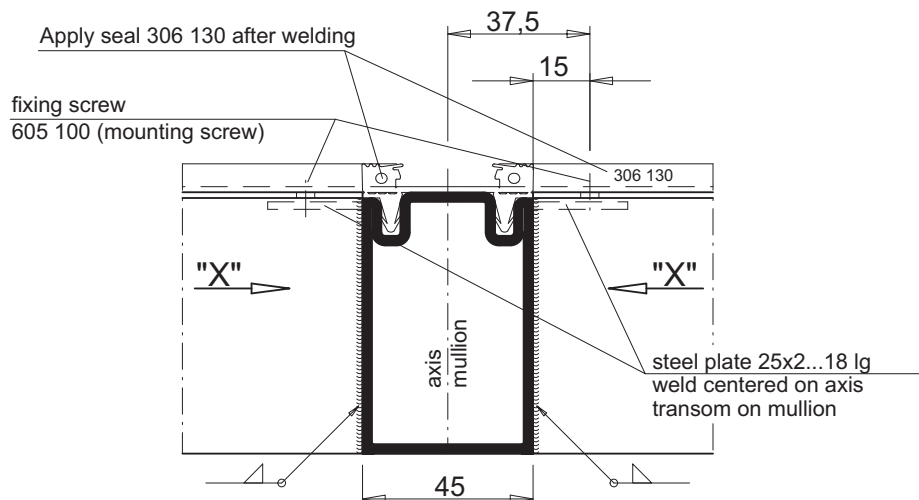
welded construction - component assembly

detail PS1

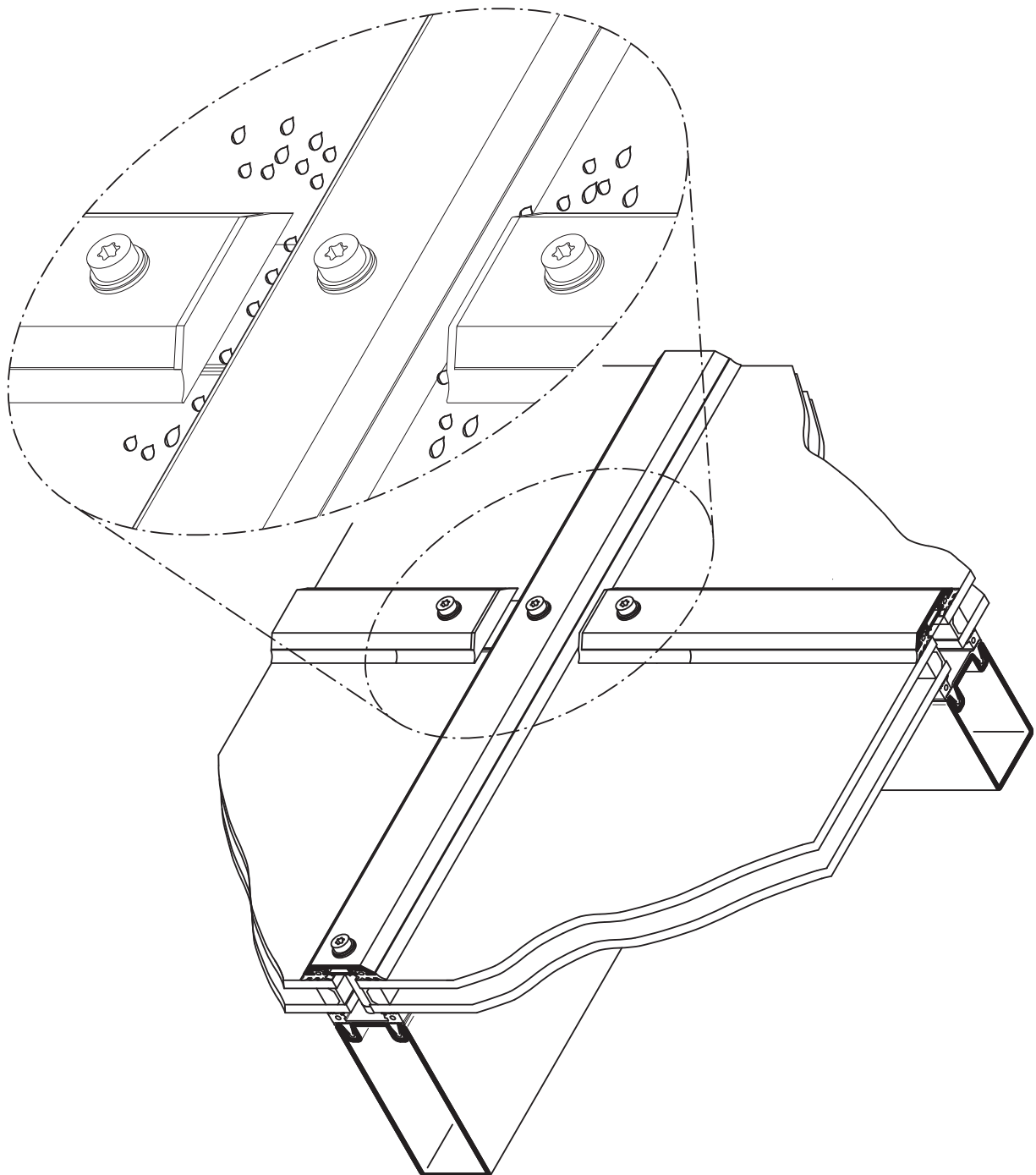
detail PS1.1 - mirror-inverted



detail PS2

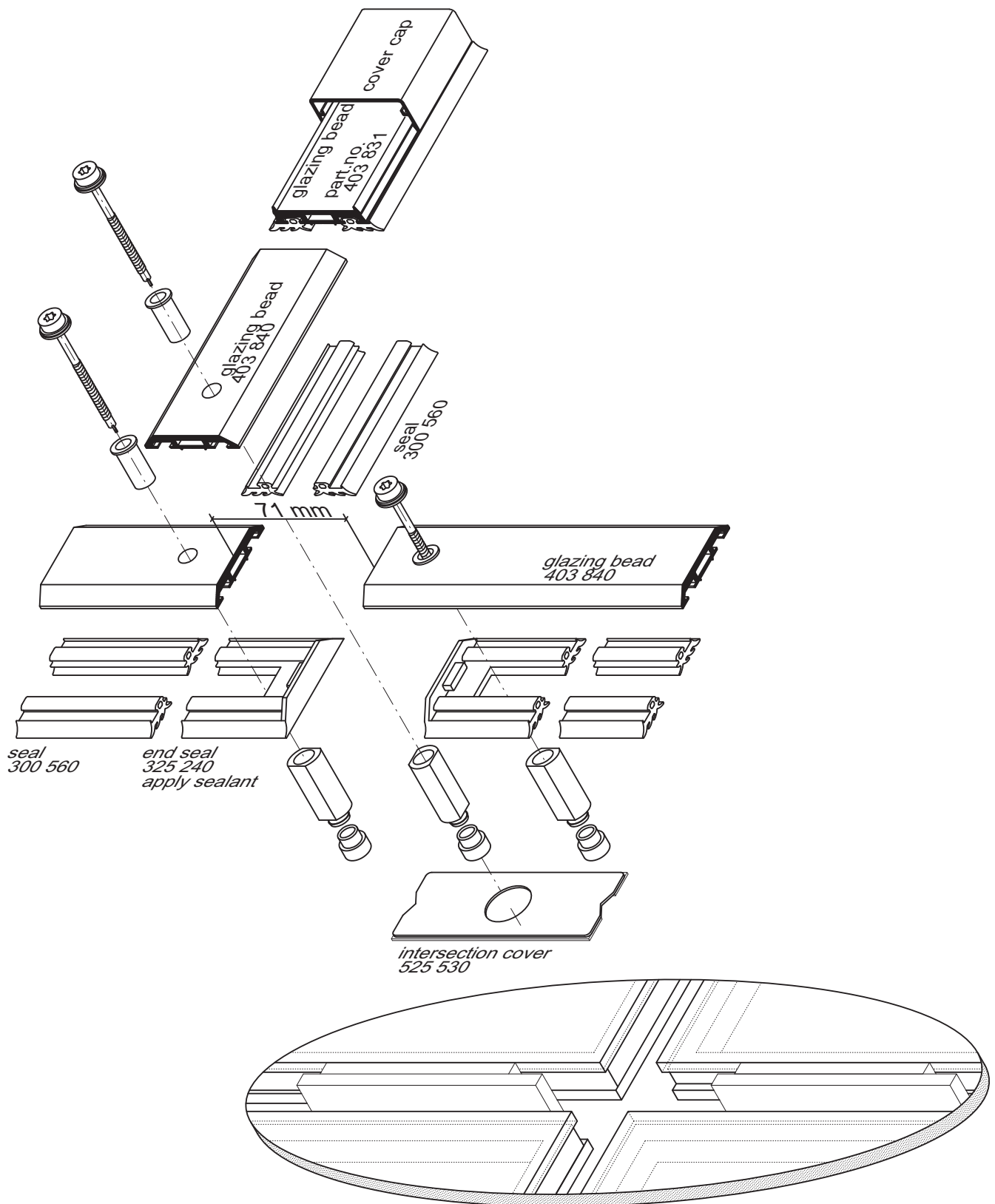


Pitched roof glazing



- E.E. and we reserve the right to effect modifications -

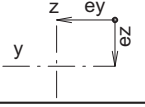
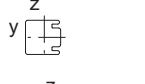
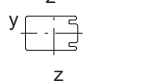
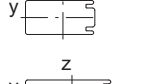
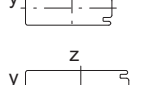
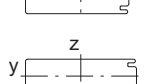
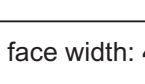
Pitched roof glazing
detail joint of glazing beads



- E.E. and we reserve the right to effect modifications -

6-08-1

Profile data

	profile	T mm	s mm	A cm ²	U m ² /m	G kg/m	ey cm	ez cm	ly cm ⁴	Wy cm ³	iy cm	Iz cm ⁴	Wz cm ³	iz cm
	RP1786	45	2.5	5.09	0.212	3.99	2.15	2.25	14.64	6.50	1.69	14.02	5.61	1.66
	RP1787	67.5	2.5	6.22	0.257	4.88	3.15	2.25	19.72	8.77	1.78	38.16	10.18	2.48
	RP1788	90	2.5	7.34	0.302	5.76	4.19	2.25	24.81	11.03	1.84	77.93	15.72	3.26
	RP1789	112.5	2.5	8.47	0.347	6.65	5.26	2.25	29.90	13.29	1.88	136.22	22.17	4.01
	RP1790	135	2.5	9.59	0.392	7.54	6.33	2.25	34.99	15.55	1.91	215.92	29.51	4.74
	RP1815	147	2.5	10.20	0.415	8.01	6.91	2.25	37.70	16.76	1.92	268.17	33.79	5.13
	RP1798	150	2.5	14.06	0.579	11.0	7.76	2.25	45.82	20,36	1.79	313.54	40.39	4.68

face width: **45 mm**

material: 1.0038
surface: pre-galvanized
Z 275-M-A-C

beads		part.no.	T mm	h mm	A cm ²	U m ² /m	G kg/m
aluminium AlMgSi0.5 F22		403 831	9.3	7	1.99	0.137	0.54
		403 840	7	7	1.81	0.127	0.49
		403 851	25	8	3.89	0.199	1.05
		403 890	3.3	4.5	1.44	0.102	0.39
		413 630	15		1.05	0.144	0.28
		413 640	18		1.22	0.172	0.33
		413 690	21		1.28	0.184	0.35
enodizable							
stainless steel 1.4401	 ¹⁾	430 050	10	1.5	1.04	0.141	0.81
	 ²⁾ 46	411 550	15	1	0.81	0.148	0.64
	 ²⁾ 46	411 560	18	1	0.87	0.160	0.68

face width: **45 mm**

T = depth

s = wall thickness

A = cross sectional area

U = peripheral area

G = weight

h = height in the middle

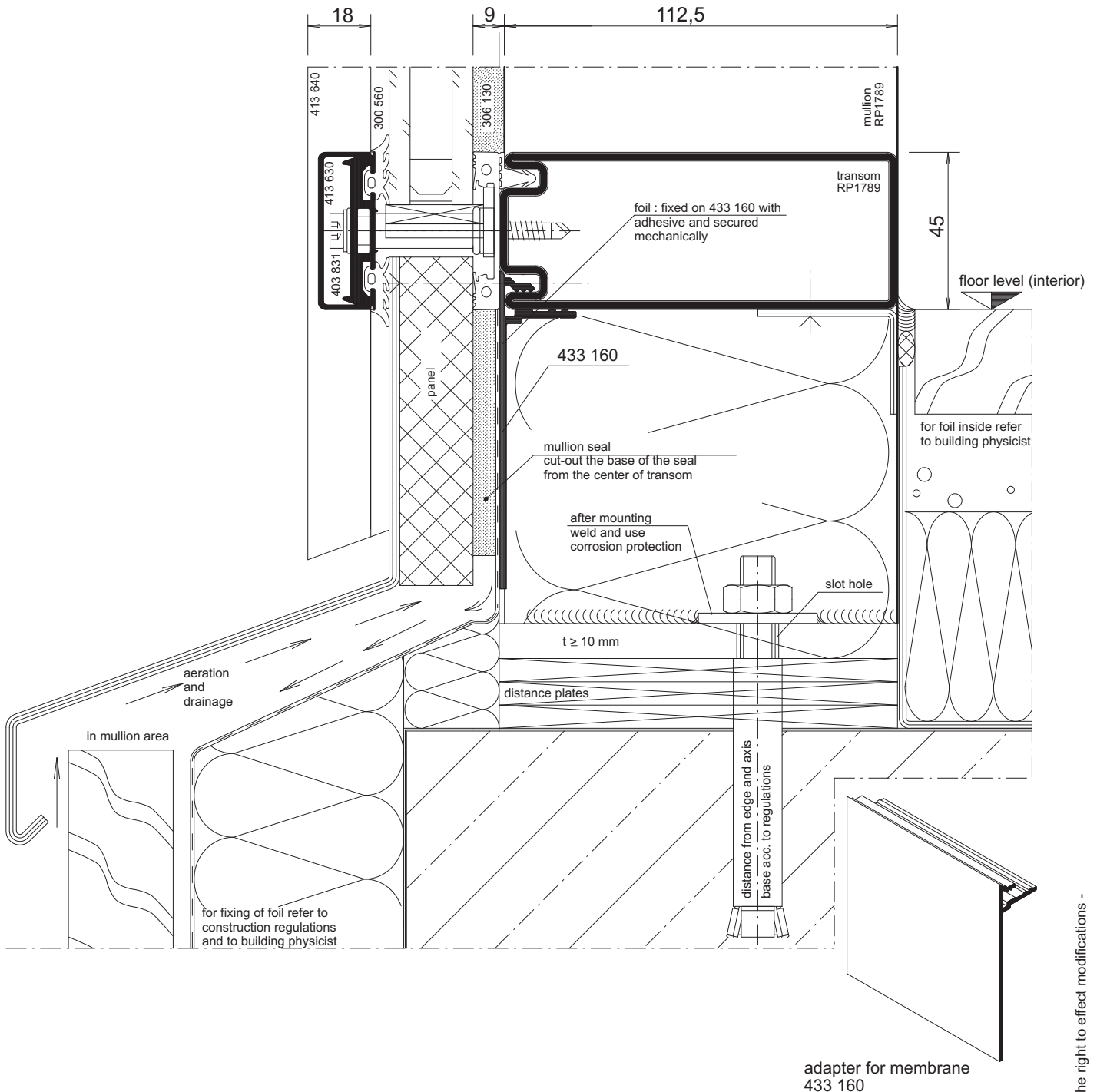
e = gravity center axis

I = moment of inertia

W = section modulus

i = radius of gyration

Mounting example
base with base plate



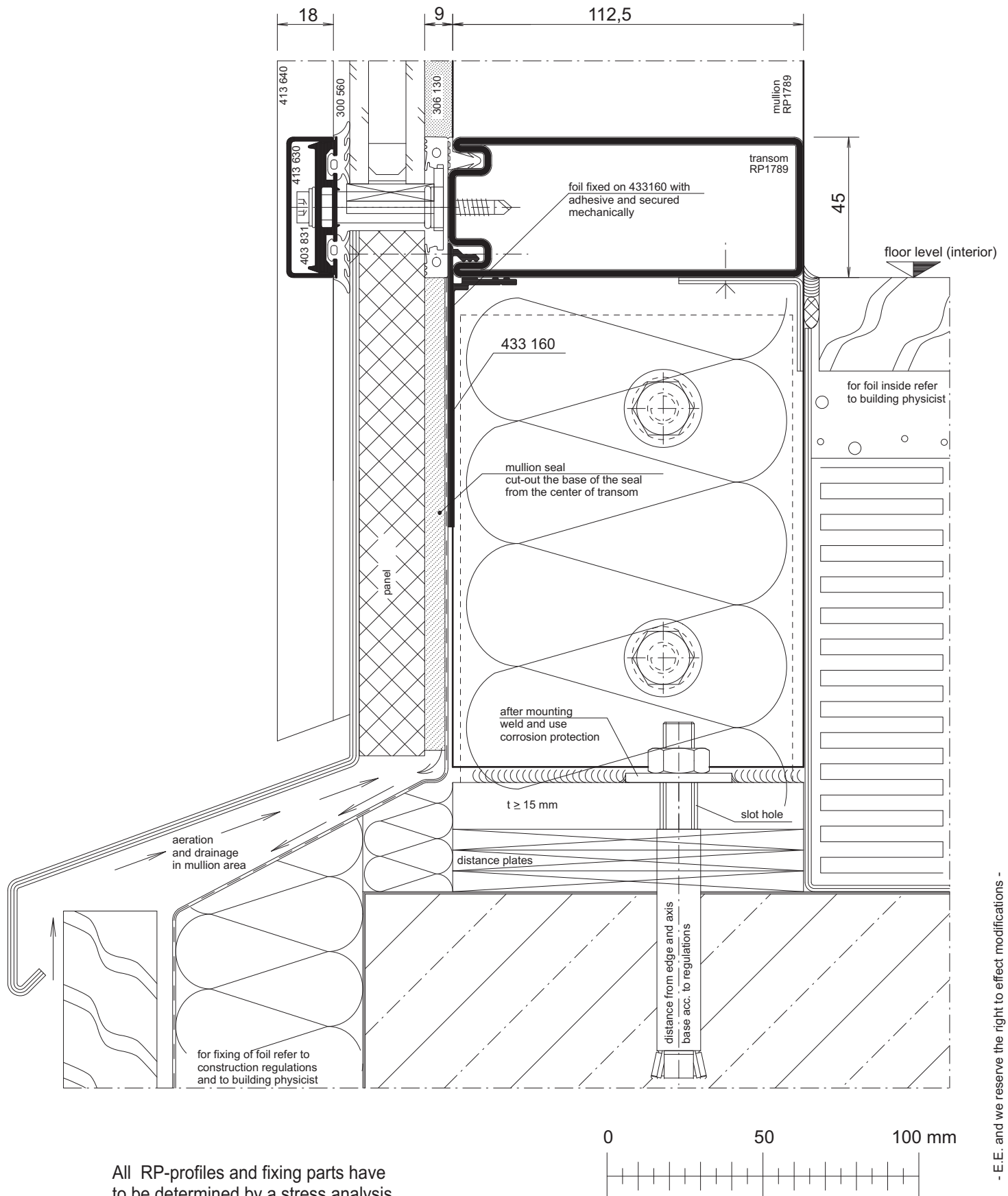
All RP-profiles and fixing parts have to be determined by a stress analysis.



- E.E. and we reserve the right to effect modifications -

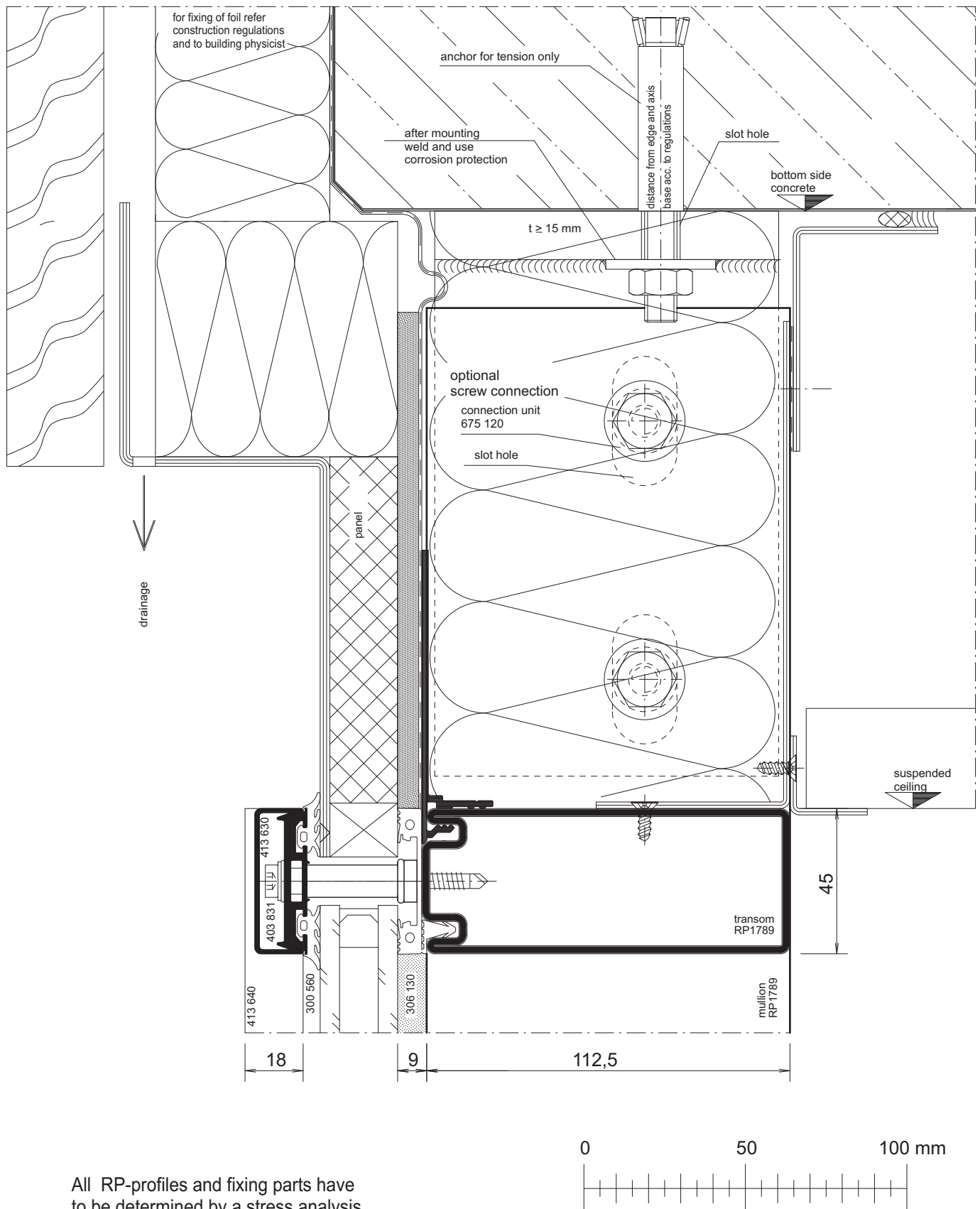
Facade System
RP-ISO-hermetic 45 N

Mounting example base with insert



E.E. and we reserve the right to effect modifications -

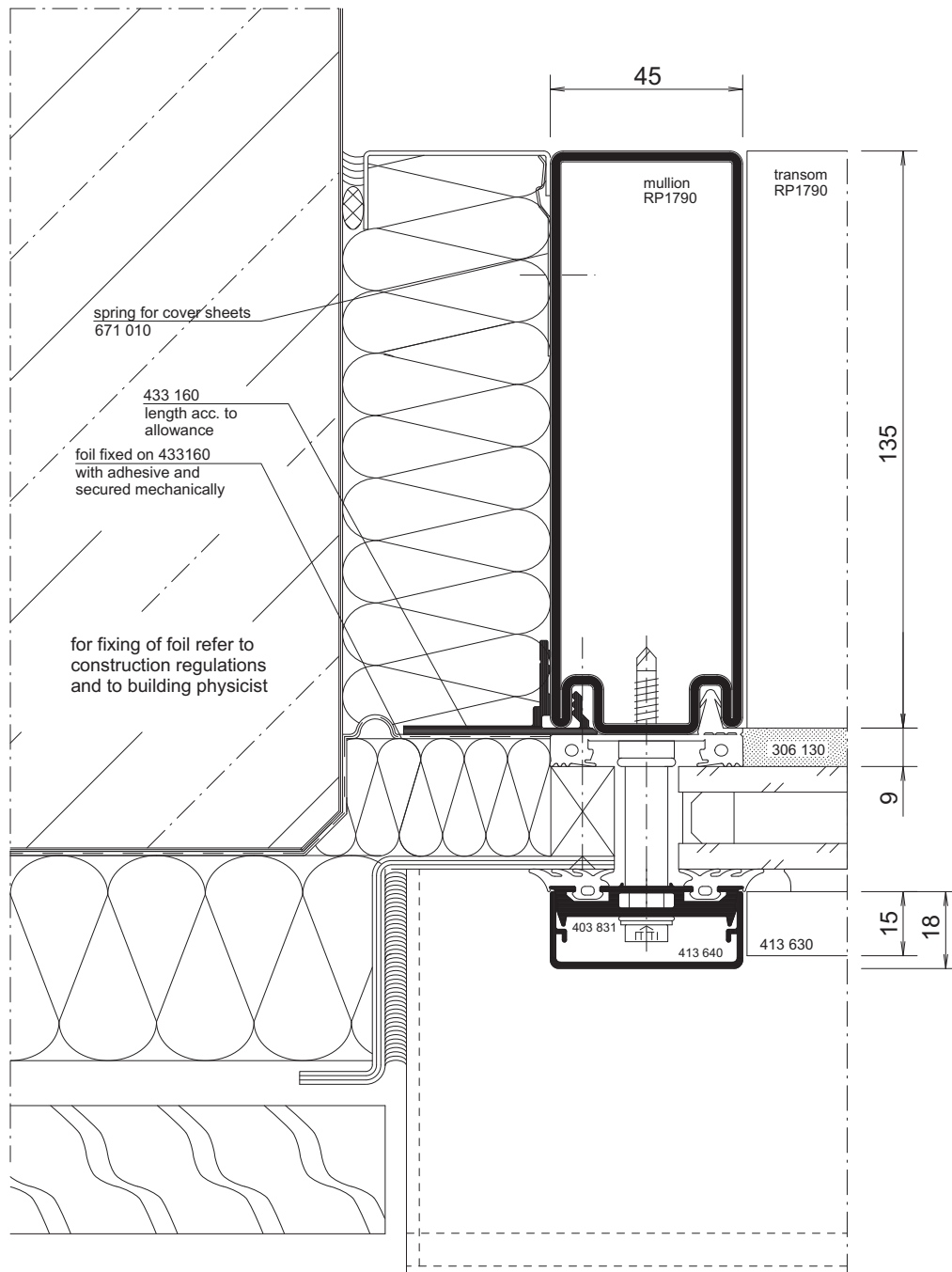
Mounting example
top with insert



All RP-profiles and fixing parts have to be determined by a stress analysis.

- E.E. and we reserve the right to effect modifications -

Mounting example **joint to wall**



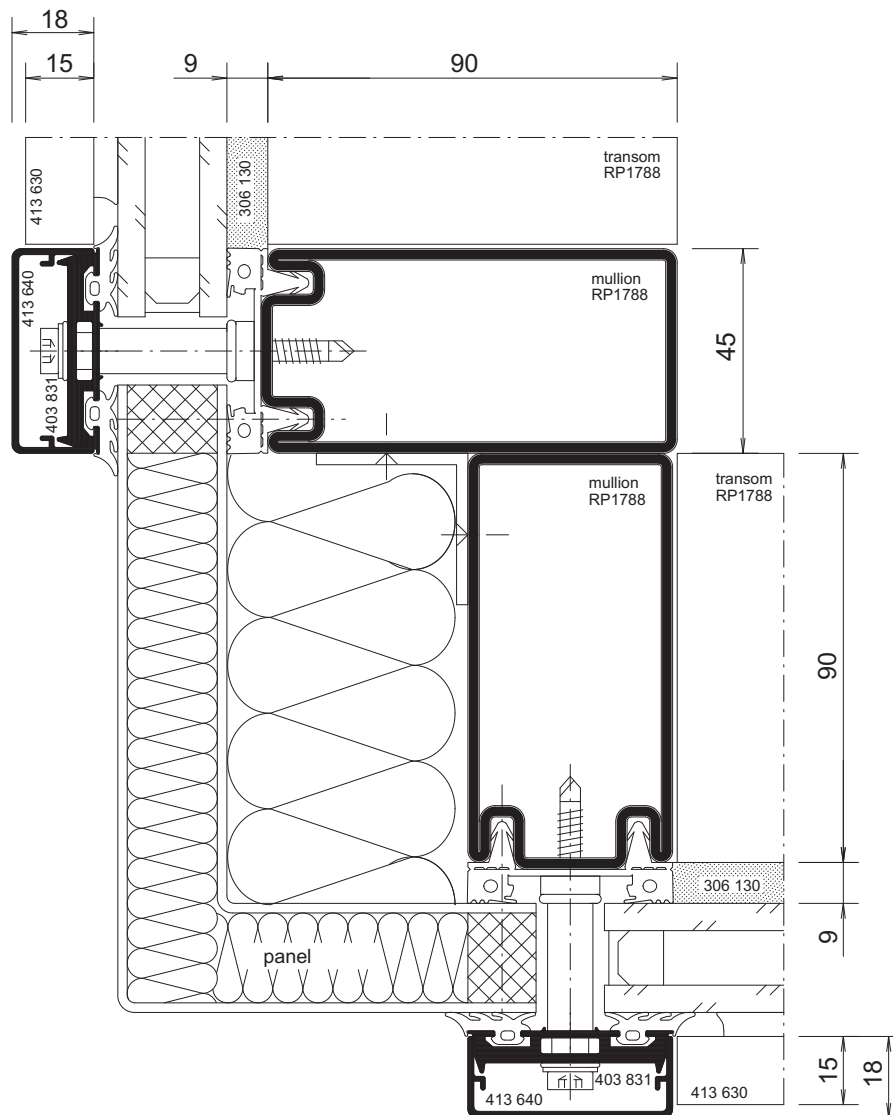
All RP-profiles and fixing parts have
to be determined by a stress analysis.



- E.E. and we reserve the right to effect modifications -

9-04

Mounting example
90° angle

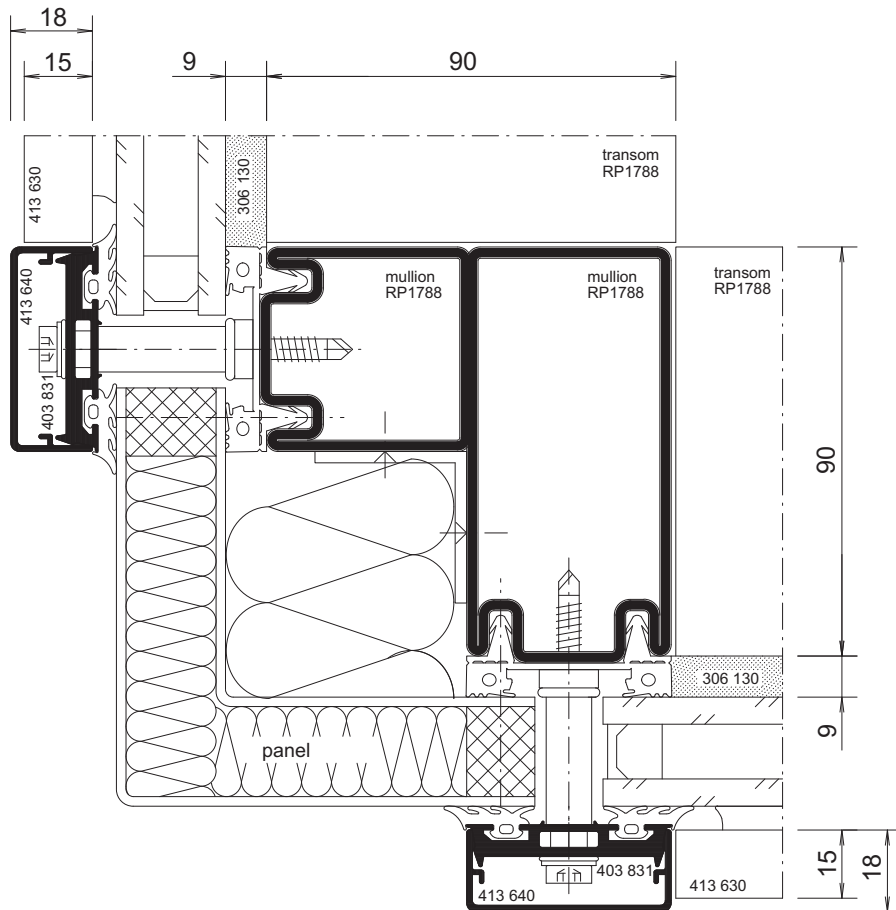


All RP-profiles and fixing parts have
to be determined by a stress analysis.

- E.E. and we reserve the right to effect modifications -

9-05

Mounting example
90° edge - alternative



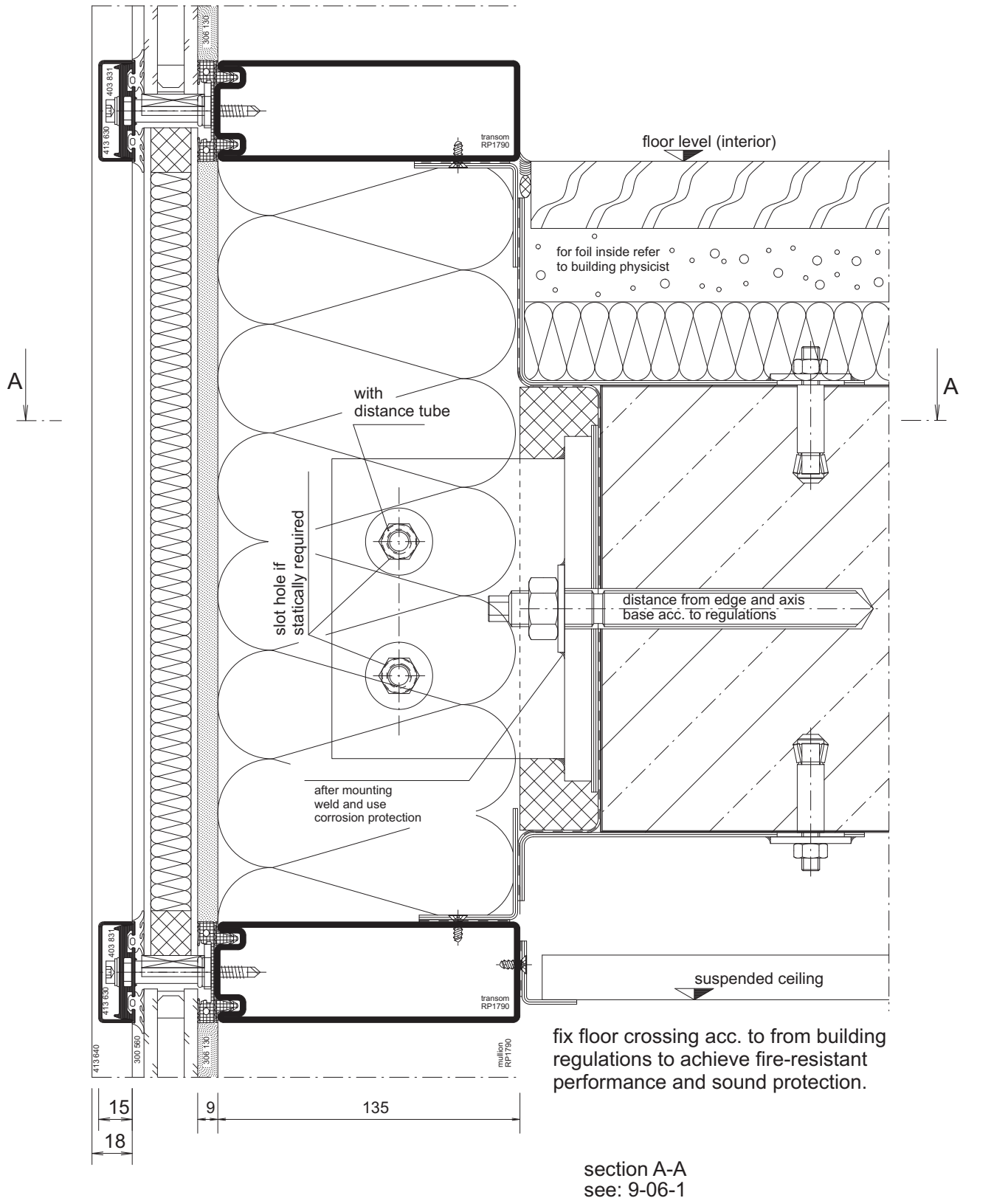
All RP-profiles and fixing parts have
to be determined by a stress analysis.



- E.E. and we reserve the right to effect modifications -

9-05-1

**Mounting example
joint to ceiling**

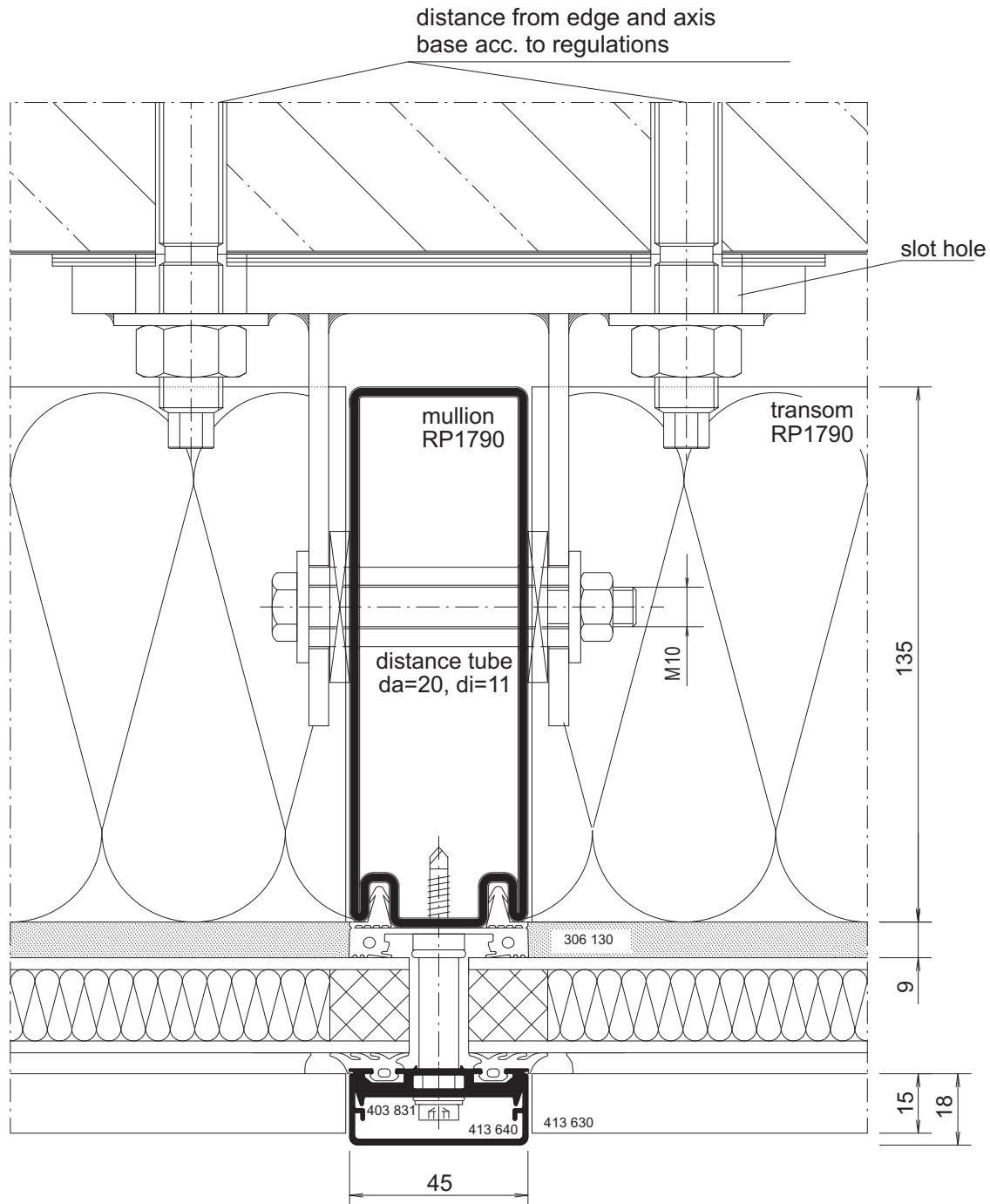


All RP-profiles and fixing parts have to be determined by a stress analysis.



9-06

Mounting example
joint to ceiling - joint A-A



fix floor crossing acc. to from building
regulations to achieve fire-resistant
performance and sound protection.

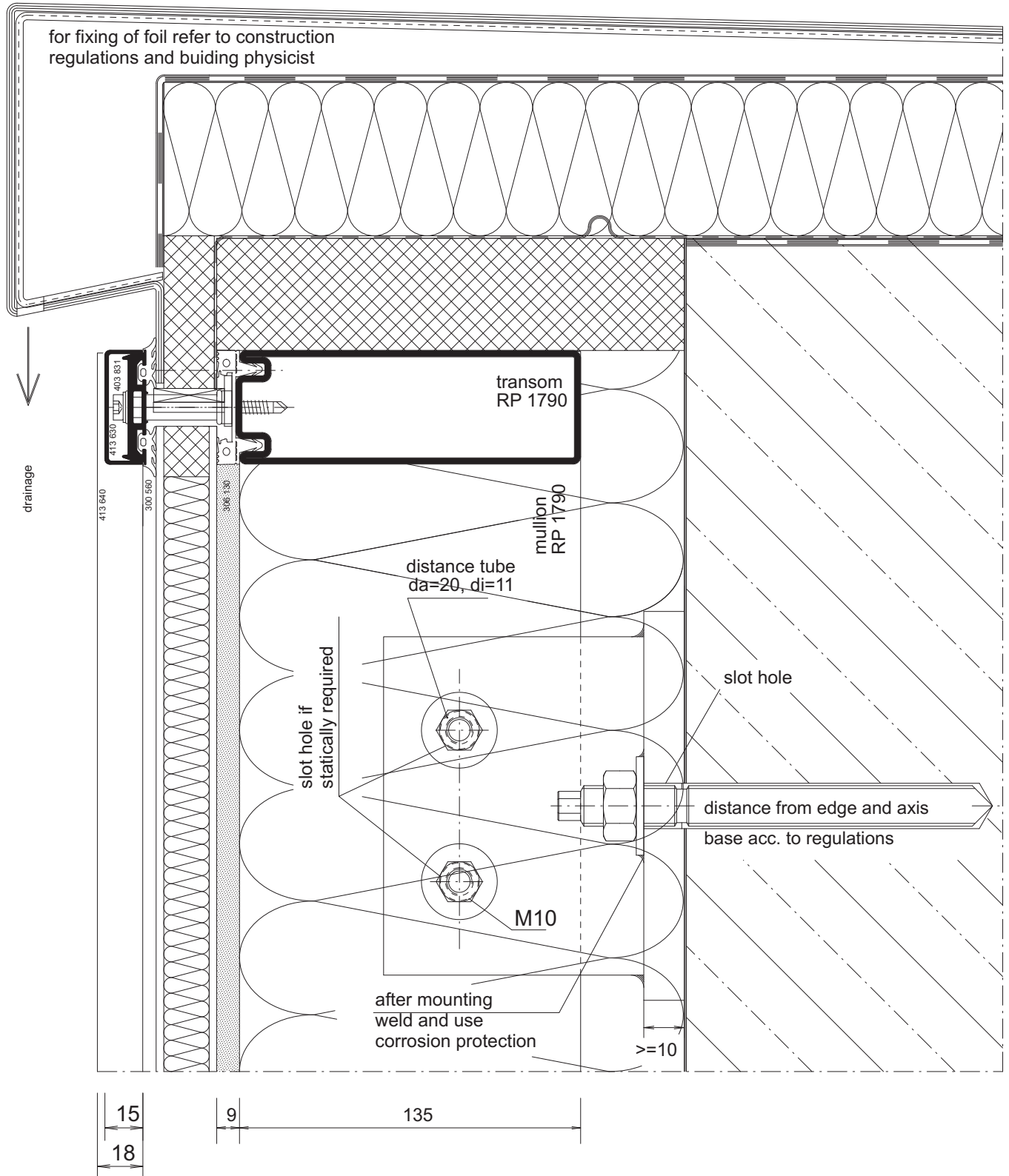
All RP-profiles and fixing parts have
to be determined by a stress analysis.



M 1:2

9-06-1

Mounting example
joint to roof / attica

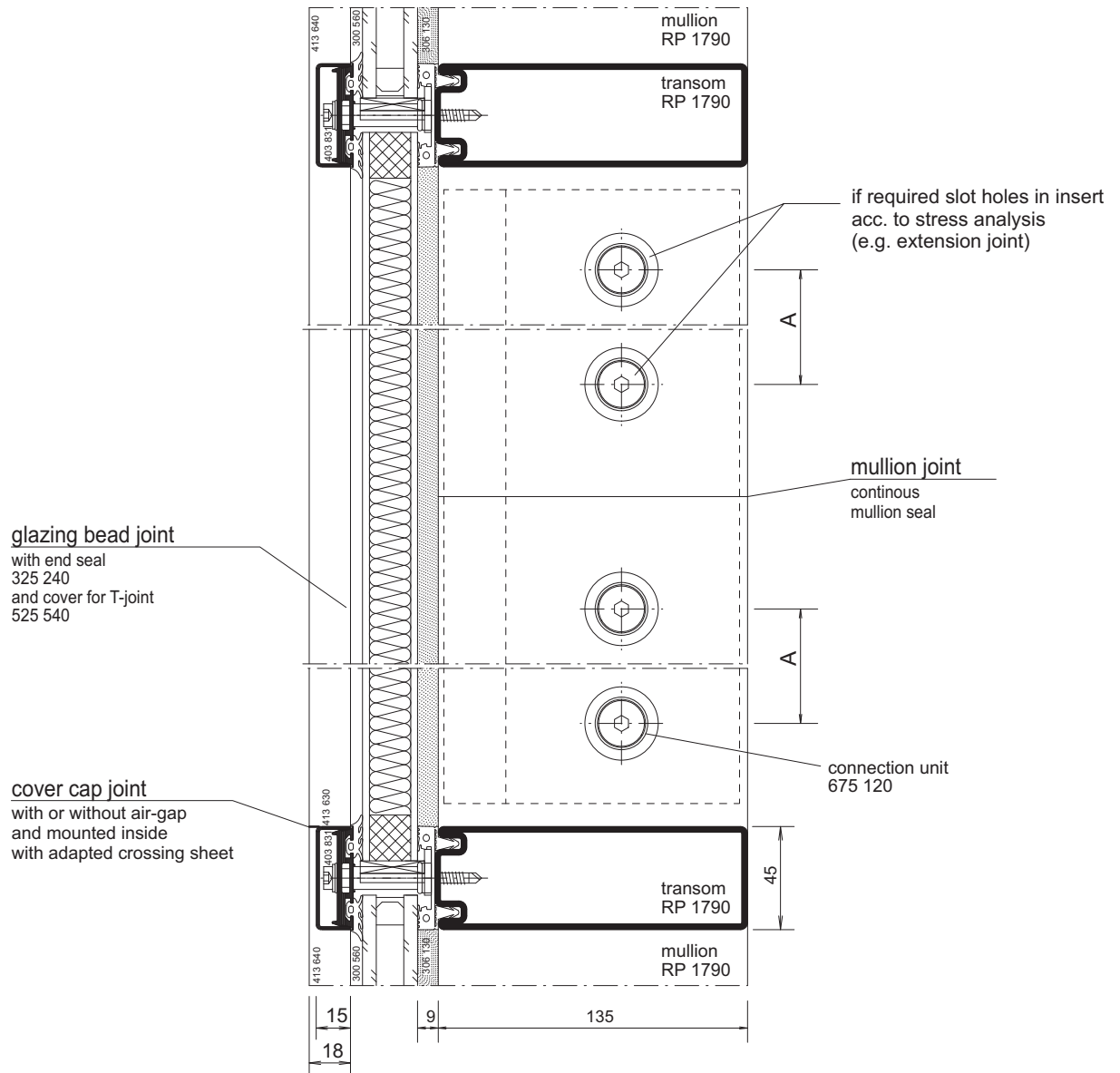


All RP-profiles and fixing parts have to be determined by a stress analysis.



- E.E. and we reserve the right to effect modifications -

**Mounting example
mullion facade joint with insert**



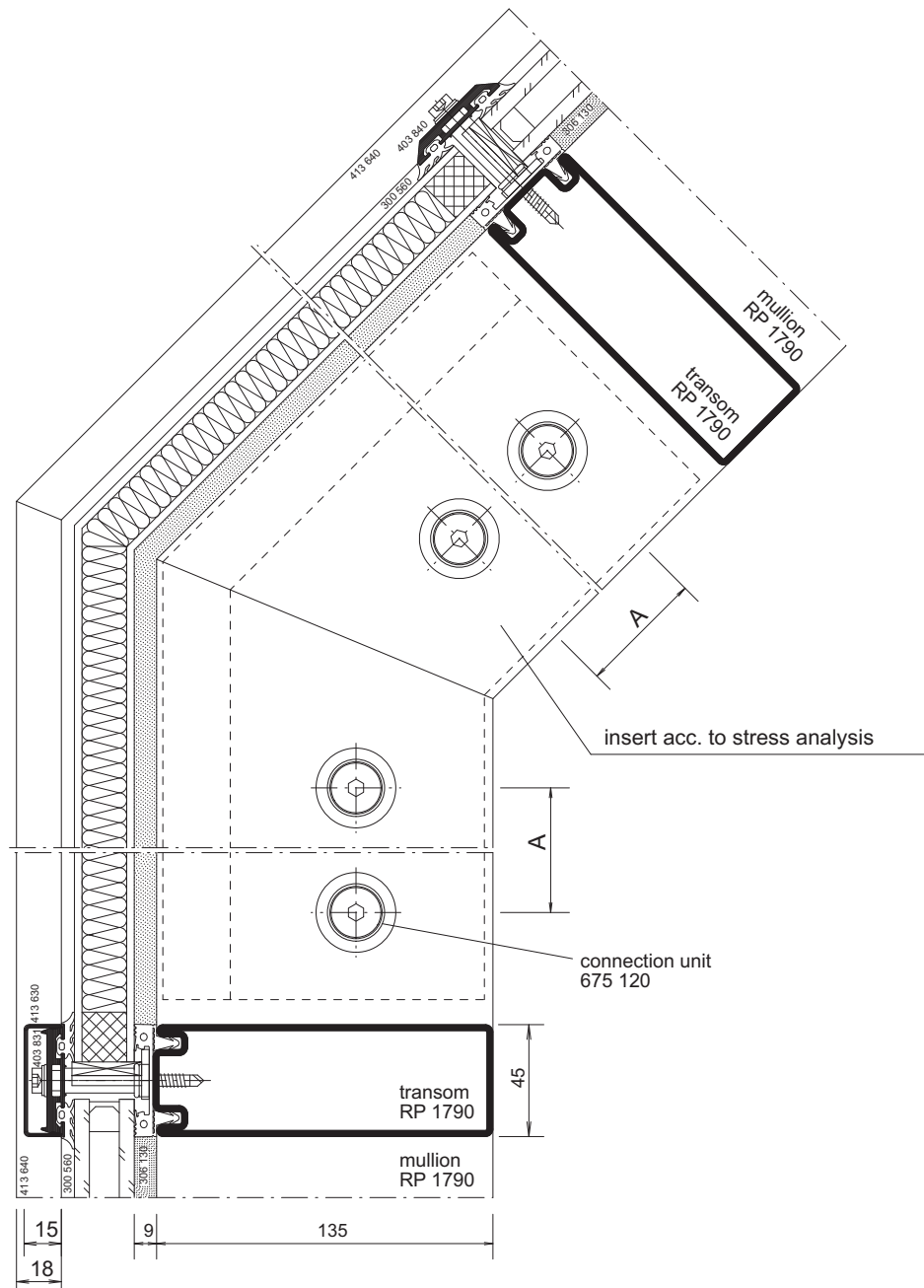
Dimensions acc. to a stress analysis

All RP-profiles and fixing parts have to be determined by a stress analysis.



Mounting example

mullion facade / roof with insert
bending resistance joint



Dimensions acc. to a stress analysis

All RP-profiles and fixing parts have
to be determined by a stress analysis.

