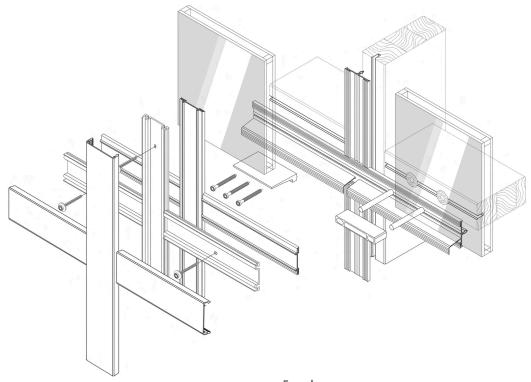


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1.1 System specifications



Facade gasket height 5 mm

System widths		50, 60, 80 mm
Air permeability EN 12152	2	AE
Water tightness	static	RE 1650 Pa
EN12154 / EN 13050	dynamic	250 Pa / 750 Pa
Resistance to wind	permitted	2,0 kN/m2
EN 13116	increased	3,0 kN/m2
Shock resistance		E5 / I5
Glass weight	≤ 670 kg	
Burglar resistance DIN EN	RC 2	

Facade				
inclination	up	to	20°,	

inclination up to 20°,	Roof
overlapping inner gaskets	≥ 2° inclination

60 mm	60 mm
AE	AE
RE 1650 Pa 250 Pa / 750 Pa	RE 1350 Pa*
2,0 kN/m2 3,0 kN/m2	2,0 kN/m2 3,0 kN/m2
E5 / I5	increased requirements according to Cahier 3228 du CSTB méthode d'essai de choc sur verrière weight 50 kg drop height 2,40 m
≤ 670 kg	≤ 670 kg
RC 2	

^{*}the test was carried out using a water volume of 3.4 l/(m2min) above the amount required by the standard

Thermal insulation

AVA H offers excellent thermal insulation frame heat transfer coefficients (Uf) as low as 0.60W/(m2K).

Strength Class &

1.2 Wood selection and requirements

The wooden substructure supports the glazing and must meet all structural and suitability requirements. The wood choice is on the client, architect, or processor.

All wood materials comply with the current Eurocode 5 standard (DIN EN 1995-1).

Minimum requirements for all wood materials:

- Softwood, strength class C24
- Laminated timber, strength class GL24h

Comparable hardwoods can also be used.

Wood Type	Modulus of Elasticity (E ₀ ,mean [kN/cm ²])
Spruce, Fir	C16 - 800
Pine, Larch	C24 - 1100
Douglas Fir, Southern Pine	C30 - 1200
Western Hemlock	C35 - 1300
Yellow Cedar	C40 - 1400
Oak, Teak, Keruing	D30 - 1100
Beech	D35 - 1200
Beech, Azalea, Intsia	D40 - 1300
Angelique (Basralocus)	D40 - 1300
Azobé (Bongossi)	D60 - 1700
Glued Laminated Timber (GLT)	C24 - GL24h - 1160
	C30 - GL28h - 1260
	C35 - GL32h - 1370
	C40 - GL36h - 1470
Laminated Veneer Lumber (LVL)	Kerto Q - 1000 - 1050
	Kerto S - 1380
	Kerto T - 1000
Multiplex Sheets (Plywood)	900 - 1600

Confirm exact values with the supplier and applicable standards.

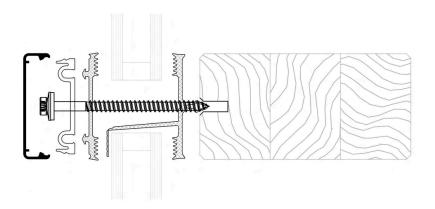
1

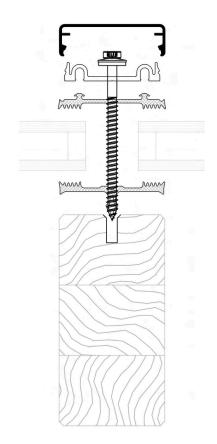
1.3 Profile design

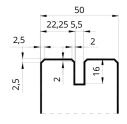
The inner gasket fits into the groove of the mullion and transom.

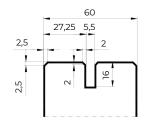
The outer gasket and pressure plate are screwed directly to the timber structure.

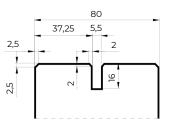
AVA H meets the highest technical and aesthetic standards.











The system can be found in 50, 60, 80 mm system widths.

1.3 Profile design

Aluminium profiles

The aluminium profiles are made from EN AW 6060 and EN AW 6063 according to DIN EN573-3, T66 according to DIN EN 755-2.

Coating the aluminium

In addition to anodic oxidation, with pretreatment, traditional coating techniques can be used - airdrying multi-layer coatings or thermosetting coatings. Discuss required actions with the coater.

Linear expansion of aluminium

Take into account the temperature-related linear expansion of the aluminium pressure plates and cover plates. Theoretical bar length ℓ to be reduced by:

$$\Delta \ell = \alpha T \cdot \Delta T \cdot \ell$$

Shorten the pressure plate by ≈ 2.5 mm per bar $\ell = 1000$ mm. Ensure the correct length of the outer gaskets.

Use a diameter of d = 9 mm for the holes to screw the pressure plates with visible screw connection in the roof area.

Thermal expansion parameters

 $\alpha T \approx 24 \cdot 10-6 1/K$

coefficient of thermal expansion for aluminium

T = 40 K

assumed temperature difference of aluminium depending on colour and solar radiation

ℓ = 1000 mm rod length

 $\Delta \ell \approx 1$ mm longitudinal/linear expansion

Linear expansion



ℓ = 1000 mm

 $\Delta \ell = 1 \text{ mm at } 40^{\circ}\text{C}$

Expansion references

Rod length & (mm)	Temperature difference ΔT	Linear expansion Δ ፂ (mm)
1000	40°C	1
3000	40°C	3
1000	60°C	1.5
3000	60°C	4.5
1000	100°C	2.5
3000	100°C	7.5

1.3 Profile design

Gaskets

AVAVERA gaskets are EPDM-based natural rubber and meet DIN 7863 for gasket profiles in windows and facades. Processor tests compatibility with contact media, particularly when using plastic glazing or non-AVAVERA products.

Weatherproof silicone

Use only tested sealants to seal the rebate area with weather silicone. Follow manufacturer's instructions and have trained personnel do the grouting. Certified specialist company would be the best choice. Refer to DIN 52460 and the IVD data sheets (Industrial Association for Sealants).

Ensure material compatibility, especially the glass edge seal and the backfilling of joints. Confirm compatibility in advance, in the case of self-cleaning glass.

Standards compliance

DIN7863 Elastomer seals
DIN52460 Sealing for glazing
IVDsheets Industrial guidelines

WP.01-05 Window&Facade Association

UV-resistance

Use highly elastic, weatherproof, UV-resistant sealants for a reliable joint. See UV resistance details with the manufacturer. Silicone sealants are the best for UV resistance, polysulphide are ideal for volatile argon fillings.

All system items are produced according to applicable standards.

See information sheets WP.01 - WP.05 from the Association of Window and Facade Producers (VFF).

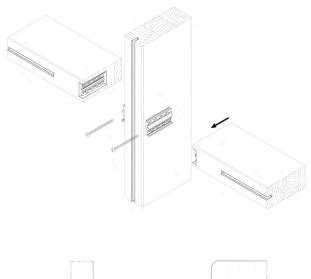
Maintenance checklist

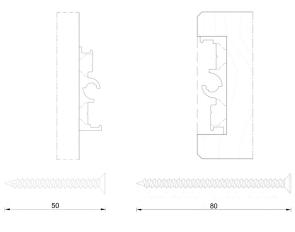
- Inspect all gaskets regularly for proper fit.
- Check for damage or wear on weather seals.
- Clean rebate area from debris.
- Verify proper installation of glass edge seals.
- Confirm compatibility when replacing the components.

2.1 Mullion transom connection

- Attach the connector parts to the mullion and transom, insert the transom to connect them. Secure the joint in all directions with a connecting screw.
- Notch the clamping foot of the transom inner gasket at the mullion-transom connection.
- Install the transom connector screws, avoid collision with pressure plate screws and glass support screws.
- Ensure that the centre groove in the transom begins approximately 80 mm from the transom end.
- Insert the transom from the inside to the outside.
- Place the front edge of the connector 6 mm behind the front edge of the mullion and transom. For hardwood or when placed close to the edge of the wood, pre-drill with Ø 3 mm.
- Mill a 12 12,5 mm deep recess on the front edge of the transom.

Milling dimensions: width x length x depth $40 \times (connector length + 6) \times 12-12.5 (mm)$





mullion assembly

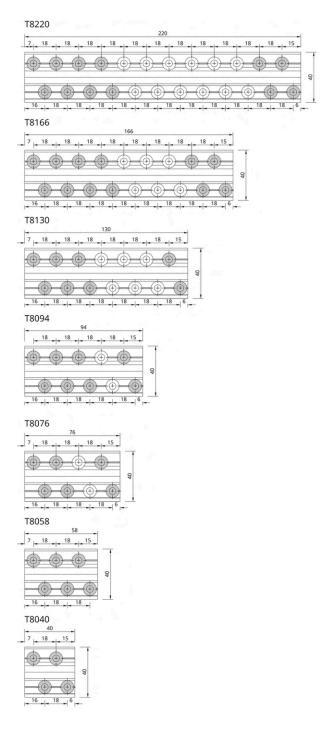
transom assembly

Place the mullion transom connectors as described.

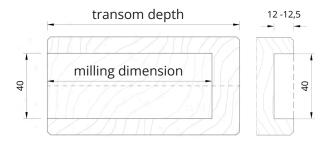
The load-bearing capacity and suitability must be statically verified on site.

2.2 Mullion transom connection types

Transom connector types differ from each other in terms of their length and load-bearing capacity. The number of screws varies depending on the connector type and screw connection variant.



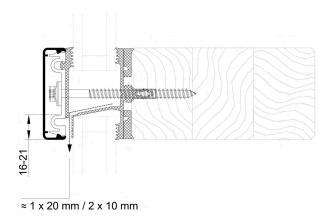
46
64
82
100
136
172
226



Vapour pressure equalisation in a mulliontransom facade is usually achieved through openings at the base, head and ridge.

The vapour pressure equalisation openings also help remove moisture. The inner gasket allows moisture to drain downwards. In facades, water flows into the mullion through the transom flap. Tested sealing systems with 1 or 2 drainage levels can be used.

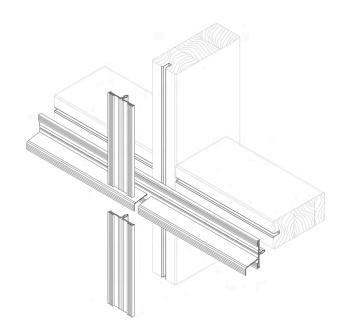
In sloped glazing with 2 drainage levels, the higher transom gasket overlaps the lower mullion/rafter gaskets. The moisture drains outside through the water-bearing level of the structure. Foils are placed under gaskets and kept in place permanently.



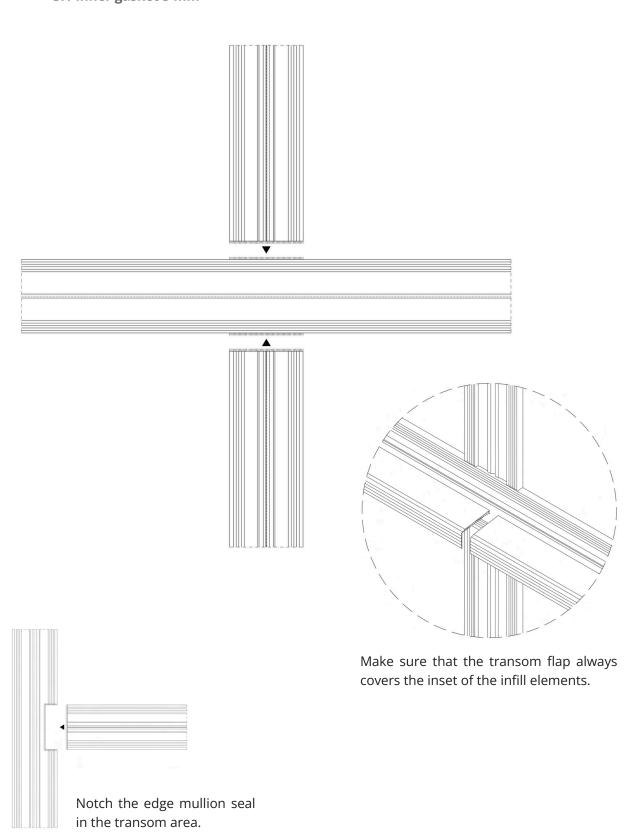
When the transom length is $\geq 2,00$ m, notch the lower sealing lips of the outer gasket (opening approx. 20 mm) for additional ventilation.

3.1 Inner gasket 5 mm

- Lay the horizontal transom gaskets continuously.
- At the mullion-transom joint, notch the clamping feet of the transom gasket over the length of the mullion width. Use AVAVERA notching pliers.
- For T-connectors, notch the clamping foot of the transom gasket over 80 mm per transom end (see "Mullion-transom connection").
- Butt the mullion gaskets against the transom gaskets.
- Use AVAVERA paste Z0094 for all gasket joints.
- Notch the transom gasket flaps at the mullion joint over a width of 10 mm to 15 mm.
- Remove the protruding transom flap at the perforation after glazing.
- Insert the inner transom gaskets into the notched mullion gaskets at the edge for proper drainage.

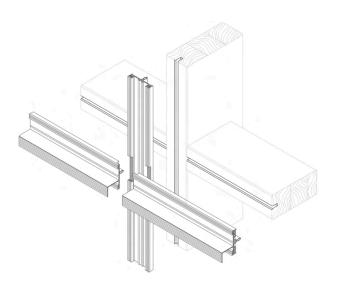


3.1 Inner gasket 5 mm



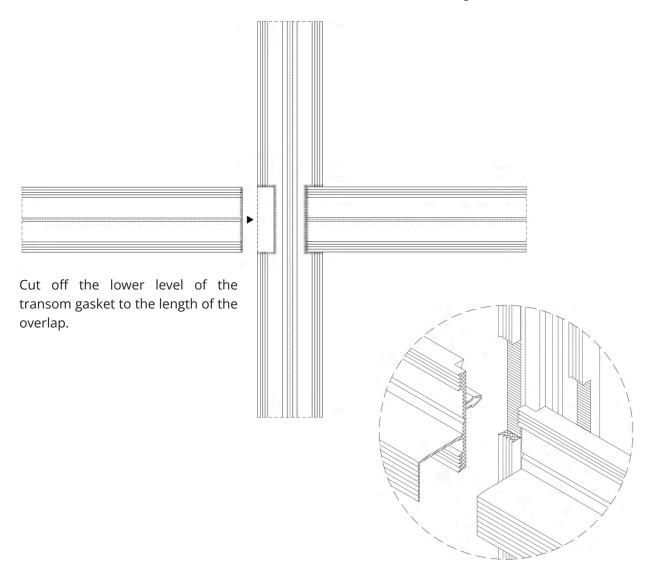
3.2 Inner gasket 10 mm

- Divide the height of 10 mm high gaskets for easier overlapping at the mullion-transom joint.
- Install the vertical mullion gaskets (2nd drainage level) continuously.
- Clip the transom gaskets into the mullion gaskets in an overlapping manner.
- Use AVAVERA paste Z0094 for all gasket joints.
- The transom gasket flap (1st drainage level) drains moisture into the mullions.
- The transom flap must cover the inset of the glass panes and filling elements.
- Remove the protruding transom flap at the perforation after glazing.



3.2 Inner gasket 10 mm

Cut off the upper level of the mullion gasket in the transom area to the width of the transom gasket.



Make sure that the transom flap always covers the inset 'e' of the infill elements (e.g. glass panes, panels).

Glass supports are chosen based on wood and glass specifications.

Install the glass supports following industry guidelines and the Institute for Window Technology standards.

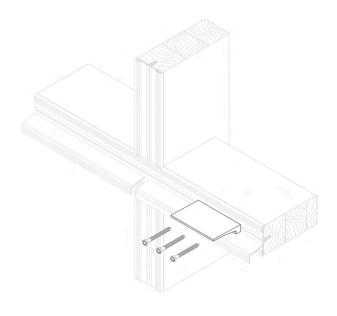
Glazing blocks must align with the edge bond of insulating glass, be durable and allow vapor pressure equalization and condensate drainage. They must also tolerate minor adjustments.

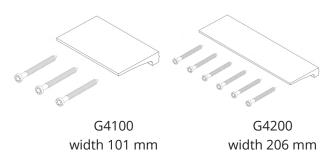
Increasing the glass inset improves the frame's heat transfer coefficient (Uf).

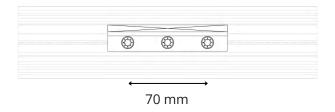
Commonly used:

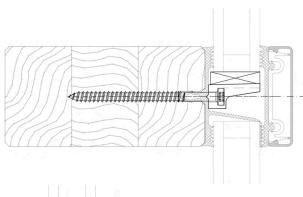
AVA H50 12 - 15 mm glass inset AVA H60 15 - 20 mm glass inset AVA H80 20 mm glass inset

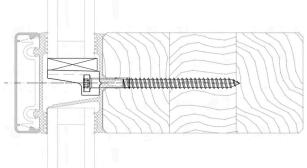
4.1 Installation of G4100 and G4200





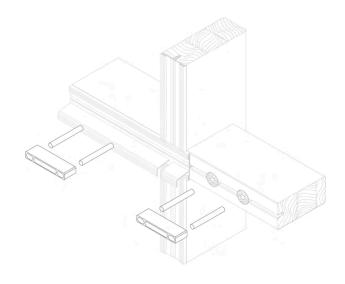


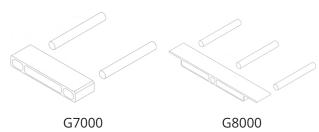


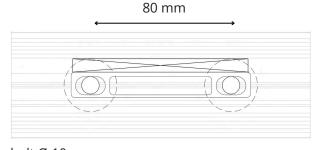


- Use only with 5 mm high inner seal.
- Place the glass supports 100 mm from the transom end to prevent any collision with the pressure plate screw connection.
- Screw directly into the transom, 35 mm apart, after pre-drilling holes Ø 3,5 - 5 mm (depending on wood type).
- Ensure that the screws are perpendicular to the transom.
- Cut the glass supports to match glass thickness.
- Place glazing blocks under the glass along the entire width of the supports.

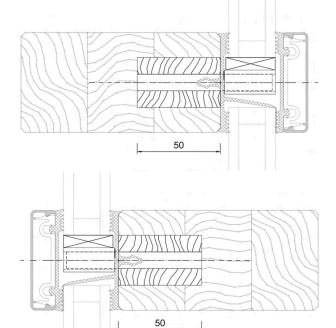
4.2 Installation of G7000 and G8000







bolt Ø 10 mm hardwood cylinder inside Ø 10 mm outside Ø 30 mm



- Adjust the bolt length to match glass thickness.
- Glue wooden cylinders (50 mm length, 30 mm width, 10 mm hole) into the transoms to secure the bolts.
- Drill 50 mm deep, 30 mm wide holes, 80 mm apart.
- Hammer bolts into the entire 50 mm cylinder depth.
- Press the glass support G7000 or G8000 onto the bolts.
- Avoid grooving the hardwood cylinders.
 Remove the sealing base in the area of cylinders.
- Place glazing blocks under the glass along the entire width of the supports.

4.3 Installation of outer gaskets

Outer sealing

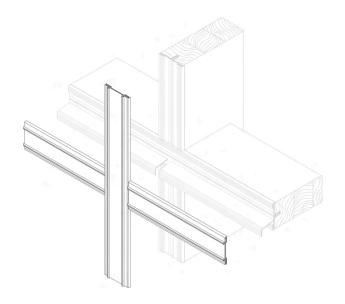
- holds the glass in place
- protects the rebate from moisture

Ensure that the outer gasket level is tight, apart from the openings for vapor pressure equalization and condensate drainage.

Sealing lips of different heights on the outer gasket compensate for the height difference caused by the transom flap.

Split gaskets of different heights balance filling elements up to 6 mm.

- Install the gaskets flush with a slight oversize, considering the system situation.
- Cut the transom flap at the tear-off grooves to match the glass thickness so that it is concealed under the outer gasket.



mullion outer gasket continuous transom outer gasket butted



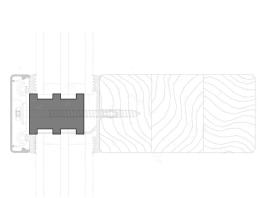
4.3 Installation of outer gaskets

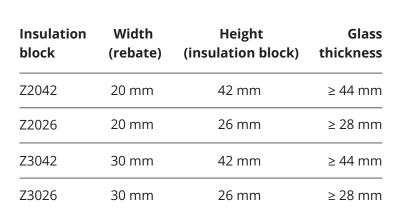
Using slab insulation

Insulation blocks come with a permanent HOTMELT adhesive.

Glue the block directly to the pressure plate or place it in the rebate space and press into position.

Always use 2-piece outer gaskets with slab insulation blocks.





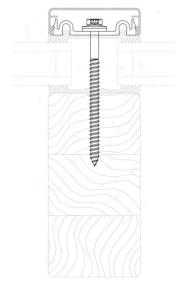
4.4 Installation of pressure plates and cover plates

- Fix the pressure plates to the wooden profile using AVAVERA stainless steel system screws, meeting DIN EN 10088 standards. The screw connection type determines the use of 4 mm high vulcanized EPDM sealing washers.
- Distance the screws max. a = 250 mm.
- Make sure the edge distance of the first screw is 30 mm \leq a \leq 80 mm.

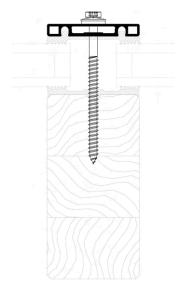
The clamp connection only experiences tensile stress. The allowed tensile force is determined by the general building inspectorate approvals or Eurocode 5 (DIN EN 1995-2).

• Use a standard drill driver with a depth stop for the screw connection. Set the depth to compress the gasket by 1,5 - 1,8 mm.

A drill driver with adjustable torque can be an alternative. Required torque is around 5Nm and may vary due to wood material and screw-in depth differences. Test the setting and compression on a sample first.



concealed screw connection

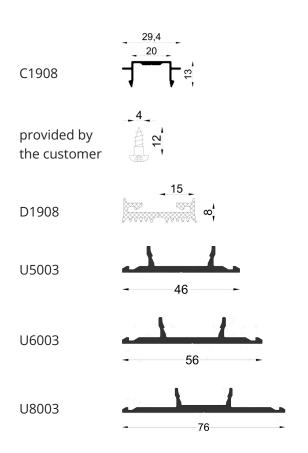


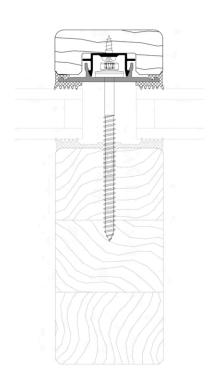
visible screw connection

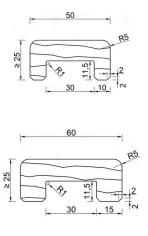
4.4 Installation of pressure plates and cover plates

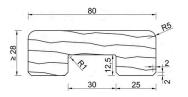
Wooden cover plates

- Screw the pressure plate with two-piece outer gasket D1908 to the system.
- Attach the cover plate C1908 (80 mm long) app. every 300 mm along the centre of the wooden cover plate using 3 screws. Timber and screws are provided by the customer.
- Clip it onto the pressure plate.
- Make sure the fixing screws are offset. So that they do not collide with the pressure plate system screws.
- Additional fastening may be needed over time due to the natural properties of wood.









4

4.5 Calculation of screw length

					√11111111111111111111111111111111111
	System width 50	0 / 60 mm	System widt	h 80 mm	screw length
	S0014	3 mm	S0014	3 mm	
	S0011 (*)	1,5 mm	S0011 (*)	1,5 mm	
	P6059 (*) (2,5) 8 mm) mm
		1,5) 6 mm			
	U5009 / U6009	2,5 mm	U8009	3,5 mm	
	U5003 / U6003	2,5 mm	U8003	3,5 mm	
	D5050		D8050	5 mm	+
	D6050 D6054	5 mm			
			D1925		
30-120	D1925 D1928	5 mm	D1923	5 mm) mm
	D1928	4 mm	D1936	6 mm	·
	D1934	8 mm	D1940	10 mm	
₩ ₩ 14	D1908	4 mm	D1908	4 mm	+
	Glass thickness				⟩ mm
	D5202	.	D8202		+
∅	D6202	5 mm	D8204	5 mm	
	D6206	10 mm			/ mm
	D6207	10 111111			+
9		effective screw-in ally sufficient for	depth e many static application	s)	16 mm + e
الحقي الم					=
	rs for visibly countersu				
ine mm specifica	ations in () are decisive	ior calculating the s	crew length.		
					screw length in mm
					Solow telletil III IIIII

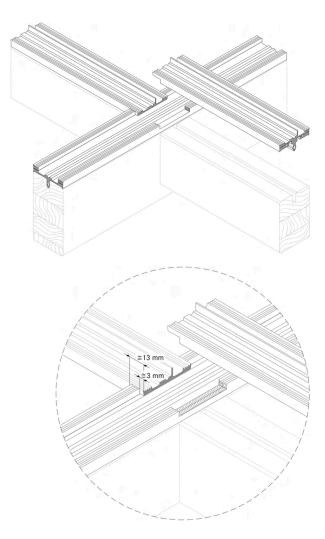
(round up the result to the nearest ten)

5.1 Installation of inner gaskets

For roof glazing, a special gasket design allows stepped drainage in 2 levels, with 10 mm high gaskets laid overlapping.

Transom gaskets are designed to create a condensate channel that drains into the rafters at the overlap.

- Divide the height of 10 mm high gaskets to allow easy overlap at critical transom joints.
- Lay the transom gaskets continuously.
- Seal all gasket joints.
- On the transom gasket, remove the lower perforated part and the clamping foot to approx. 15 mm.
- Remove the upper perforated part of the rafter gasket.
- Coat contact surfaces with AVAVERA paste Z0094 before inserting the gaskets. Avoid unevenness in the glass support surface.



transom gasket length = transom length + ~ 13 mm on each side

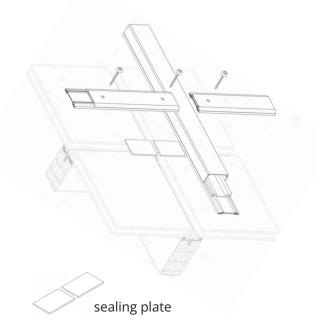
5.2 Installation of outer gaskets EPDM

Vertical glazing installation principle applies.

- Do not use split gaskets for transom sealing in the roof. Use split gaskets in rafters only with an insulation block. Check for tightness.
- Install self-adhesive sealing plates for the intersection joints. Glue these plates to the outside of glass edges, parallel to the rafter axis.
- Do not use butyl tapes as continuous sealing tapes between glass and outer gaskets.
- Lay rafter gaskets continuously and transom gaskets butted.
- Install gasket joints flush with a slight oversize.

Note

- Horizontal pressure plates block rainwater and dirt flow.
- Use cover plates and pressure plates with sloping edges to reduce water build-up in front of the aluminium profile.
- Shorten the cover plates and pressure plates of the transoms by 5 mm in the joint area for better drainage.
- Fit gasket joints flush with a slight oversize.
- Seal the open ends of the transom aluminium profiles.



- Glue the sealing plates in the centre of the transom axis.
- For 15 mm glass insets, start the first transom pressure plate screw 50 mm from the profile end.

Vertical glazing installation principle applies.

The outer gasket in the rafter area is designed like a standard roof with a slope up to 15°.

- Use split gaskets in rafters only with an insulation block. Check for tightness.
- In roofs with a ≥ 2° slope, avoid pressure plates in the transoms for proper drainage.
 Seal the rebate spaces with weatherproof silicone.
- Use only tested sealants for transom rebates.
- Install an outer sealing level with pressure profiles at the high point or ridge area of the sloped glazing.

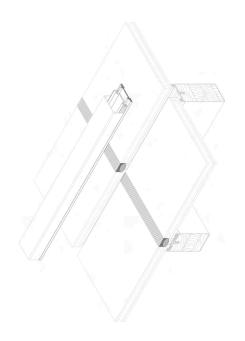
Note

Consider the expansion factor of aluminium profiles in the roof area due to high heat absorption.

Use single-piece pressure plates with caution. If used, drill Ø 9 mm holes for screws.

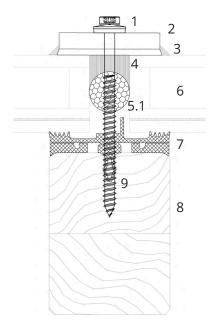
For larger spans and rafters, use concealed screw connections for pressure plates. Seal unused holes.

In roof areas where materials with different expansion coefficients meet, like eaves, install aluminium sheets with expansion joints to prevent cracking.



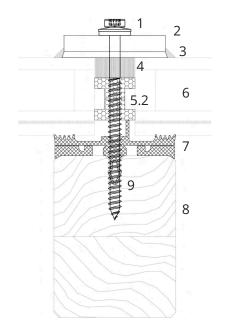
- Use highly elastic, weatherproof, UV-resistant sealants for a reliable joint. See UV resistance details with the manufacturer. Silicone sealants are the best for UV resistance, polysulphide are ideal for volatile argon fillings.
- If silicone joint has no additional mechanical fastening, support the glass at certain points with hold-down clamps.
- The hold-down clamps are stainless steel with silicone washers, screwed like pressure plates. Seal them with silicone sealant. Design depends on glass dimensions.

Transom sloped glazing ≥ 2° inclination with weatherproof silicone and round section rope seal



- 1 hold-down clamp
- 2 silicone washer
- 3 silicone sealant / seal around the clamp
- 4 weatherproof silicone seal
- 5.1 round section rope seal

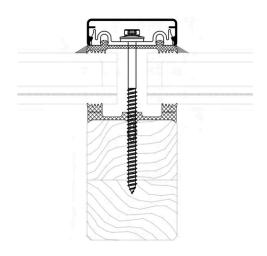
Transom sloped glazing ≥ 2° inclination with weatherproof silicone and slab insulation



- 5.2 slab insulation
- 6 glass / filling element
- 7 inner gasket 10 mm transom
- 8 timber profile
- 9 system screw fittings

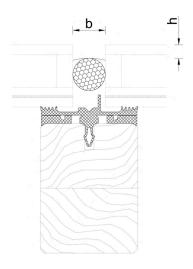
- Use PE round cords or AVAVERA slab insulation blocks as backfill material.
- Apply silicone sealant before placing rafter gaskets and pressure plates/cover plates.
- Once the silicone cures, seal and screw in the rafters.
- Seal the mullion-transom joints.
- Ensure that the transom area joint is fully cured before applying the second layer.

Rafter with pressure plate

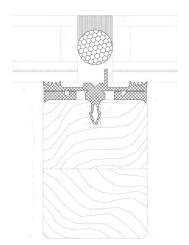


Joint design width x height = 20 mm x 10 mm

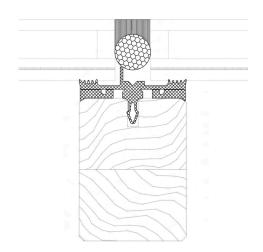
b: h = 2: 1-3.5: 1 Check and adjust if needed.



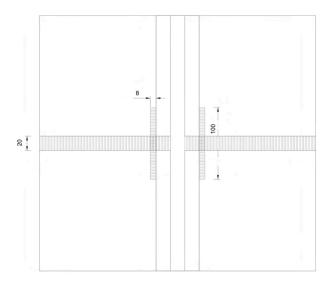
Transom with weatherproof silicone seal + round section rope seal



Transom with weatherproof silicone and round section rope seal



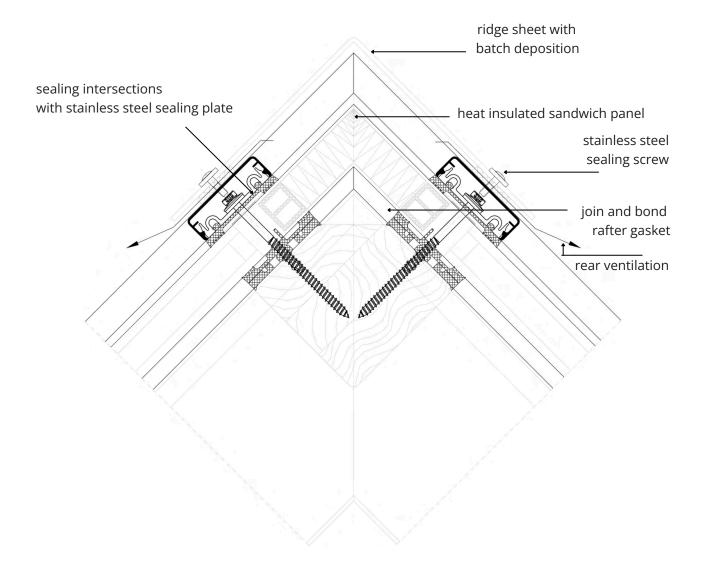
- Check silicone sealant and contact surfaces for compatibility.
- Clean the surfaces according to manufacturer instructions.
- Fill the joints only with non-water absorbent, closed-cell PE profiles to avoid damage to the edge seal.
- Ensure that the glazing rebate allows for vapour pressure equalisation and drainage.
- Prime metal components according to manufacturer instructions.
- Spray sealant into joints without leaving blowholes. Mask nearby components if needed.
- Smooth the joints using conventional tools.
 Remove adhesive tape while the sealant is still wet.
- When using multiple reactive sealants, allow the first to fully cure before applying the next.



Ridge design

Ensure that the rafter clamping and strips are pulled under the ridge cap.

Glazing at an angle of 10° from vertical position must conform to a glass structure for overhead glazing.



Eaves with glass roof connection Design with stepped glazing

The construction design varies based on transom, rain gutter option, and choice of stepped glass or pressure plate. Guarantee proper drainage of condensation and moisture at the eaves.

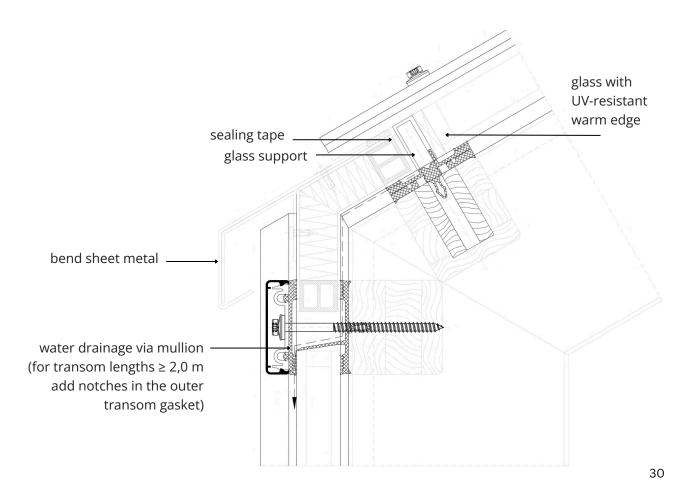
Use UV-resistant edge seal for stepped glazing. Silicone-based seals may need extra sealing around the edges.

Thermal calculations indicate a slight shift in the isotherms on stepped glass panes compared to covered glass edges.

Stepped glass panes must be statically designed based on their reduced wind suction resistance.

Use toughened glass (TVG, ESG) for the outer stepped glass pane to handle extra thermal loads.

For shallow roof slopes, use stepped glass panes to ensure free water flow at the eaves.

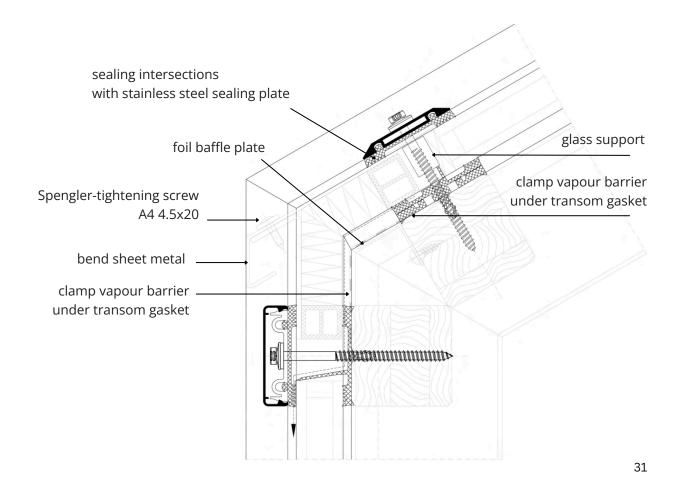


Eaves with glass roof connection Design with cover plates

- Ensure precise outer sealing on the glass roof.
- Combine stainless steel sealing plates with a four-sided pressure plate cover for high safety.
- Ensure continuous inner sealing for reliable condensate drainage.
- Shorten transom pressure plates by 5 mm in the joint area for water drainage and heat expansion.
- Fit gasket joints flush with a slight oversize.
- Seal the open ends of the transom pressure plates.

Note:

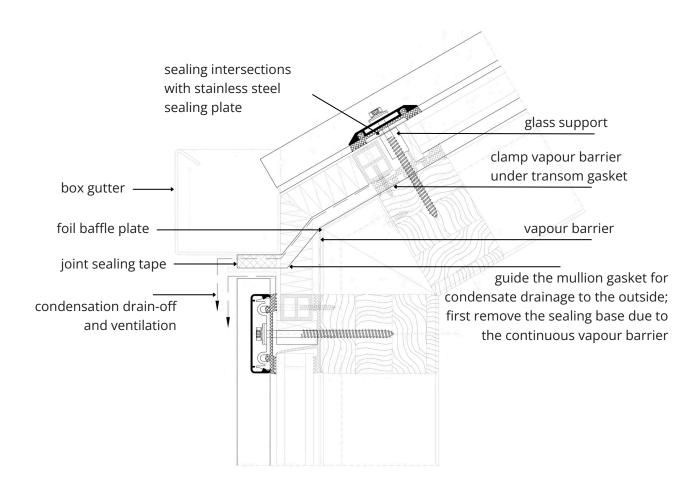
For longer system lengths and rafters, use pressure plates with concealed screw connections to reduce thermal stress. Seal any unused holes.



Eaves with glass roof connection Design with rain gutter

The rain gutter must be load-bearing and capable to prevent deformation from its weight, water or ice which could apply direct load on the glazing.

The vapor barrier over the foil baffle plate drains condensation, in addition to the gutter-shaped rafter gasket which directs water outside.

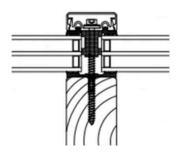


According to Building Energy Act (GEG) and DIN 4108, facades must meet minimum thermal insulation standards to ensure:

- a healthy indoor climate for residents
- protection of the building from climaterelated moisture damage
- reduced energy use for heating and cooling
- lower costs and improved climate protection

Better insulation reduces the energy consumption and lowers environmental impact of pollutants and CO2.

AVAVERA timber facades offer excellent Uf values.



AVA H 50 glass inset 15 mm

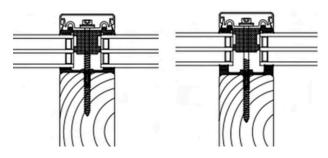
values without screw influence*

5 mm inner gasket

Glass thickness	Uf (W/m2·K)	with insulator	Uf (W/m2 ⋅K) wi	thout insulator	
(mm)	D1	934	D5050	D1934	
24	(Z2026)	0,925	1,468	1,241	
26	(Z2026)	0,900	1,454	1,224	
28	(Z2026)	0,868	1,431	1,197	
30	(Z2026)	0,843	1,412	1,174	
32	(Z2026)	0,828	1,402	1,160	
34	(Z2026)	0,807	1,385	1,142	
36	(Z2026)	0,797	1,374	1,128	
38	(Z2042)	0,688	1,361	1,113	
40	(Z2042)	0,663	1,345	1,095	
44	(Z2042)	0,629	1,324	1,070	
48	(Z2042)	0,605	1,306	1,050	
52	(Z2042)	0,587	1,292	1,033	
56	(Z2042)	0,574	1,277	1,015	

^{*} screw influence per piece 0.00322 W/K, for system 50 mm and screw spacing 250 mm

^{= + 0.26} W/(m2-K) screw influence according to Ebök (12.2008)



AVA H 60 glass inset 15 mm

values without screw influence*

5 mm inner gasket

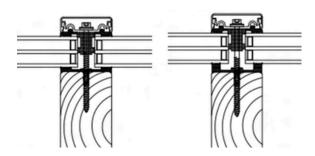
10 mm inner gasket

Glass thickness (mm)	Uf (W/r with ins D19	ulator	-	m2 ·K) insulator D1934	Uf (W/r with ins D193	ulator	Uf (W/ without D6050	-
24	(Z3026)	0,903	1,561	1,252	(Z3026)	0,916	1,697	1,381
26	(Z3026)	0,881	1,551	1,239	(Z3026)	0,897	1,684	1,365
28	(Z3026)	0,855	1,535	1,218	(Z3026)	0,874	1,664	1,342
30	(Z3026)	0,833	1,520	1,200	(Z3026)	0,856	1,645	1,321
32	(Z3026)	0,820	1,512	1,189	(Z3026)	0,848	1,635	1,309
34	(Z3026)	0,805	1,501	1,175	(Z3042)	0,713	1,620	1,292
36	(Z3026)	0,797	1,492	1,164	(Z3042)	0,693	1,608	1,279
38	(Z3042)	0,669	1,484	1,153	(Z3042)	0,675	1,596	1,264
40	(Z3042)	0,650	1,471	1,138	(Z3042)	0,655	1,581	1,248
44	(Z3042)	0,621	1,455	1,118	(Z3042)	0,630	1,559	1,225
48	(Z3042)	0,600	1,441	1,101	(Z3042)	0,613	1,541	1,205
52	(Z3042)	0,585	1,431	1,088	(Z3042)	0,602	1,526	1,188
56	(Z3042)	0,577	1,420	1,075	(Z3042)	0,593	1,512	1,173

suitable for passive house

^{*} screw influence per piece 0.00322 W/K, for system 60 mm and screw spacing 250 mm

^{= + 0,21} W/(m2·K) screw influence according to Ebök (12.2008)



AVA H 60 glass inset 20 mm

values without screw influence*

5 mm inner gasket

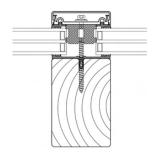
10 mm inner gasket

Glass thickness	with ins	Uf (W/m2 ·K) with insulator D1934		Uf (W/m2 ·K) without insulator D6050 D1934		Uf (W/m2 ·K) with insulator		Uf (W/m2 ·K) without insulator	
(mm)	D193			D1934	D1934		D6050	D1934	
24	(Z3026)	0,902	1,305	1,164	(Z2026)	0,909	1,413	1,252	
26	(Z2026)	0,875	1,285	1,138	(Z2026)	0,885	1,390	1,228	
28	(Z2026)	0,843	1,259	1,110	(Z2026)	0,855	1,361	1,198	
30	(Z2026)	0,816	1,236	1,084	(Z2026)	0,832	1,334	1,170	
32	(Z2026)	0,797	1,221	1,067	(Z2026)	0,817	1,316	1,151	
34	(Z2026)	0,776	1,201	1,047	(Z2042)	0,717	1,294	1,128	
36	(Z2026)	0,759	1,186	1,029	(Z2042)	0,696	1,276	1,109	
38	(Z2042)	0,695	1,161	1,013	(Z2042)	0,675	1,258	1,091	
40	(Z2042)	0,650	1,142	0,993	(Z2042)	0,652	1,237	1,069	
44	(Z2042)	0,615	1,126	0,965	(Z2042)	0,621	1,206	1,037	
48	(Z2042)	0,588	1,103	0,940	(Z2042)	0,597	1,179	1,010	
52	(Z2042)	0,566	1,085	0,919	(Z2042)	0,580	1,156	0,986	
56	(Z2042)	0,549	1,067	0,899	(Z2042)	0,564	1,135	0,964	
									

suitable for passive house

^{*} screw influence per piece 0.00322 W/K, for system 60 mm and screw spacing 250 mm

^{= + 0,21} W/(m2·K) screw influence according to Ebök (12.2008)



AVA H 80 glass inset 20 mm

values without screw influence*

5 mm inner gasket

Glass thickness (mm)	Uf (W/m2 ·K) with insulator D1934		Uf (W/m2 ·K) without insulator	
			D8050	D1934
	(2xZ2026)	0,880	1,439	1,241
26	(2xZ2026)	0,857	1,426	1,224
28	(2xZ2026)	0,831	1,409	1,197
30	(2xZ2026)	0,809	1,393	1,174
32	(2xZ2026)	0,795	1,383	1,160
34	(2xZ2026)	0,778	1,371	1,142
36	(2xZ2026)	0,767	1,361	1,128
38	(2xZ2026)	0,757	1,350	1,113
40	(2xZ2042)	0,637	1,338	1,095
44	(2xZ2042)	0,608	1,320	1,070
48	(2xZ2042)	0,587	1,305	1,050
52	(2xZ2042)	0,570	1,292	1,033
56	(2xZ2042)	0,560	1,280	1,025

^{*} screw influence per piece 0.00322 W/K, for system 80 mm and screw spacing 250 mm

^{= + 0.16} W/(m2-K) screw influence according to Ebök (12.2008)