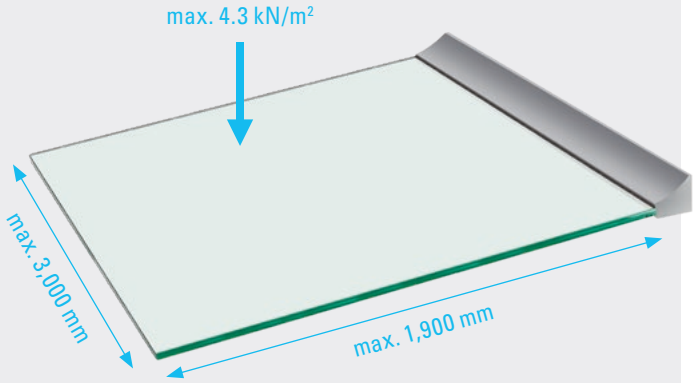
GLASSLINE

Planning manual

CANOPY *cloud*

All-glass canopy system

CANOPY *cloud*
All-glass canopy system



- ✔ **Projection up to 1,900 mm**
- ✔ **Glass width up to 3,000 mm**
- ✔ **Only linearly mounted**
- ✔ **For snow loads up to 4.3 kN/m² (corresponds to approx. 4.3 m new snow depth!)**
- ✔ **The simplest installation principle without drilling the glass**
- ✔ **LED lighting possible**
- ✔ **Glass stock program with 64 pane sizes**
- ✔ **Online configuration tool for fast requests and orders**

You can now configure **CANOPY** *cloud* online for a fast and precise request: www.glassline.de/canopy-configuration-tool

ETA — With European Technical Assessment (ETA)

CE

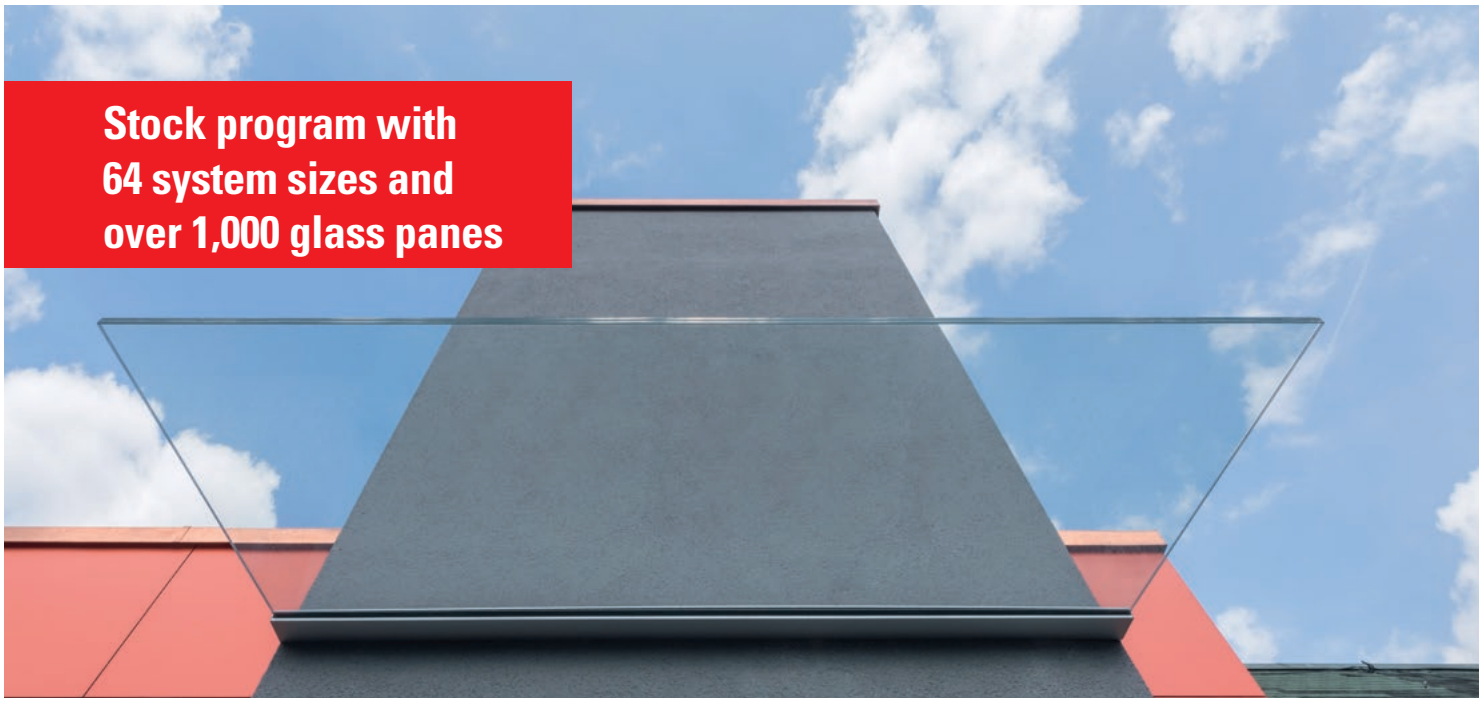
AbZ — With General Building Inspectorate Approval (AbZ)

With statics calculations

LGA tested — LGA-tested safety

KEINE ZIE ERFORDERLICH

MADE IN GERMANY



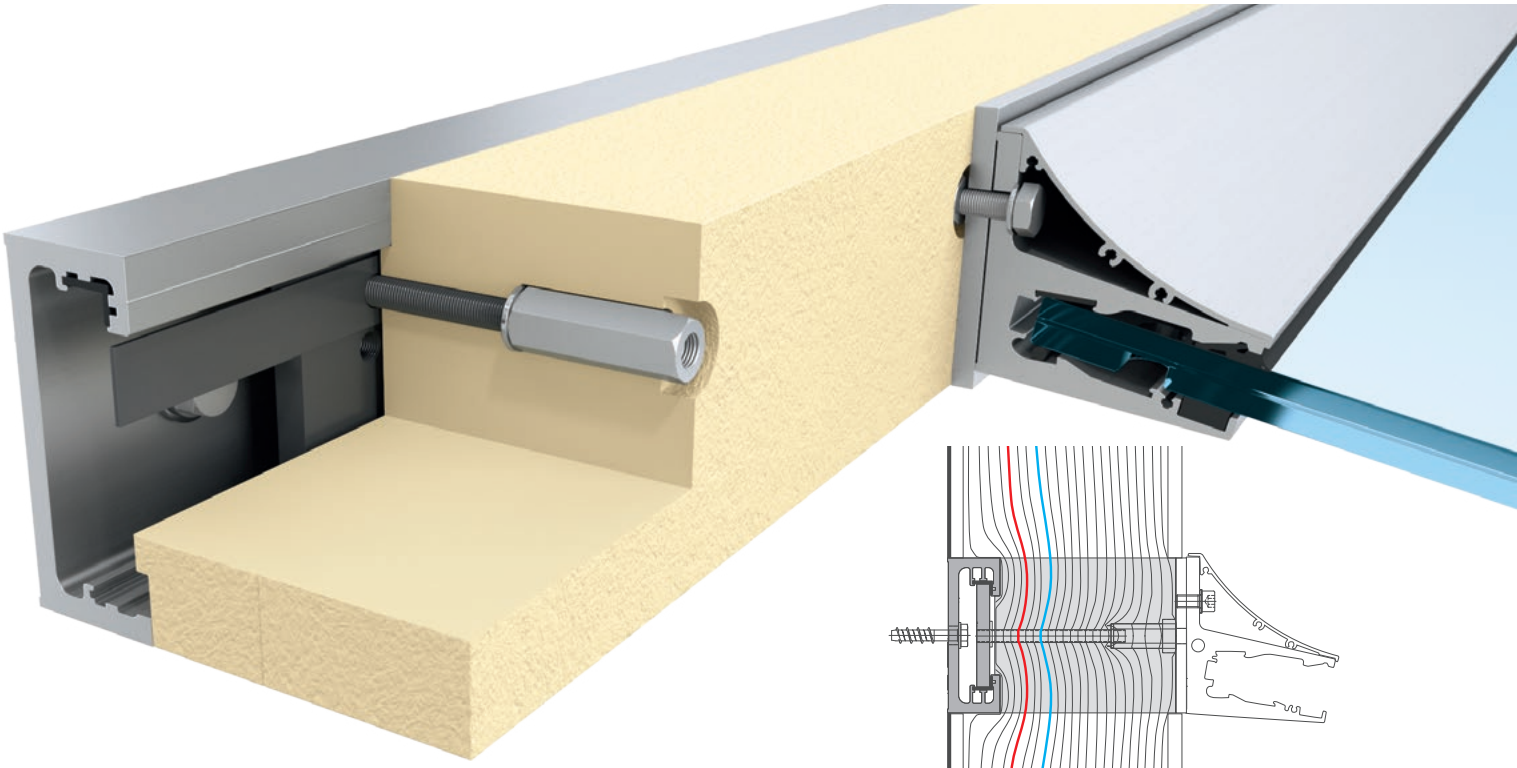
Content

CANOPY *cloud*

100% transparent, 100% simple assembly and 100% design-focussed.

The **CANOPY** *cloud* all-glass canopy system sets new standards for the trend topic "transparency in canopies". Glass canopies just don´t get more transparent than this.

Where other functional structures dominate the atmosphere of the entrance area with columns, braces and wall brackets, **CANOPY** *cloud* focuses on pure transparency:
As much as desired and as little as required.



Isothermic profile

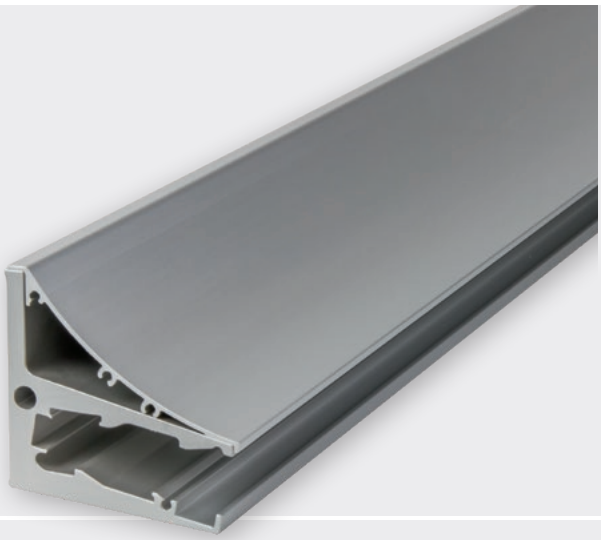
Safe attachment of CANOPY *cloud* to thermally insulated façades FIX"N SLIDE

- reduction of heat bridges
- secure mounting of add-on elements

The proven FIX"N SLIDE from GLASSLINE ensures securely fastened add-on elements on heat-insulated walls and facades. Thermal bridges are reduced. With few components and different insulation element sizes, any insulation thickness can easily be thermically and statically bridged.

Whether new or existing construction – FIX"N SLIDE acts as a rail for linear installation of every on-site situation.

System 1,100



Characteristics

- Material Aluminium
- Profile length max. 6,000 mm
- Glass length 600 - 3,000 mm
- Roof pitch 10°
- Profiletype 1

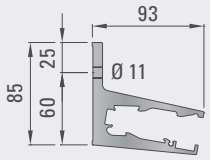
System 1,100

- Glass thickness: **LSG 16 mm**
  - max. reach 1,100 mm at 1.6 kN/m² load *
  - max. load 3.1 kN/m² * for 800 mm reach

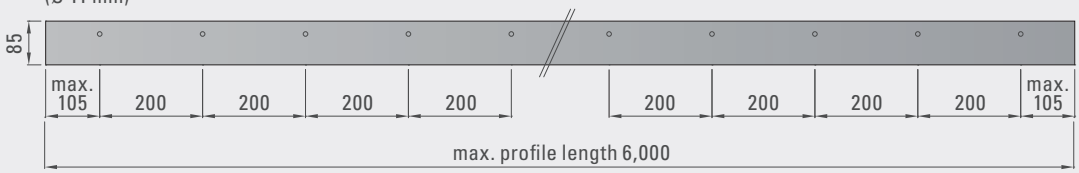
- Surfaces:
  - "Natural" untreated
  - Stainless steel look (E6EV1)
  - RAL or special colour powder-coated or anodised

* Maximum resulting characteristic area load from wind and snow, purs. DIN EN 1991-3 and -4

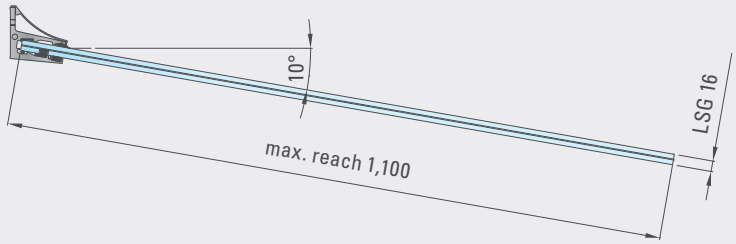
Profile dimensions



Drilling pattern
(Ø 11 mm)

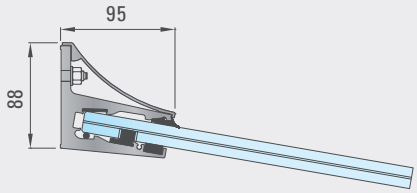


Special drilling on request!



Profile and glass joints can be executed independently

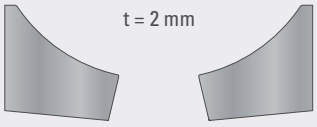
Facing cover



End cap

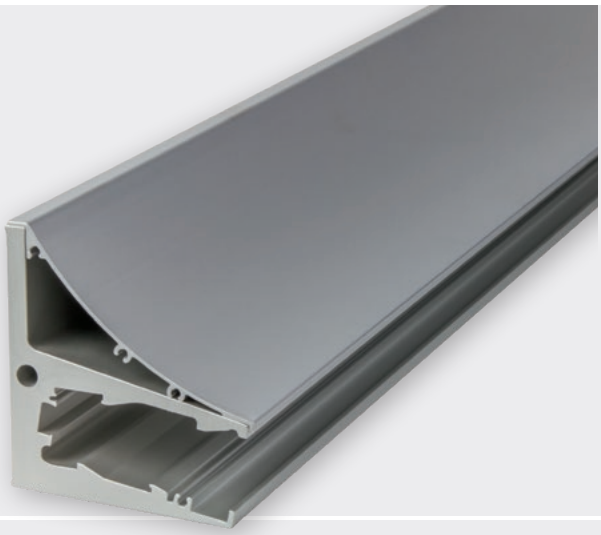
Screwed flashing

OPTIONAL: Additional, self-adhesive end cap to cover the screws, self-adhesive on one side



All intermediate formats and individual sizes for all systems are available.

System 1,300 | **System** 1,500



Characteristics

- Material Aluminium
- Profile length max. 6,000 mm
- Glass length 600 - 3,000 mm
- Roof pitch 10°
- Profiletype 3
- Surfaces:
  - "Natural" untreated
  - Stainless steel look (E6EV1)
  - RAL or special colour powder-coated or anodised

System 1,300

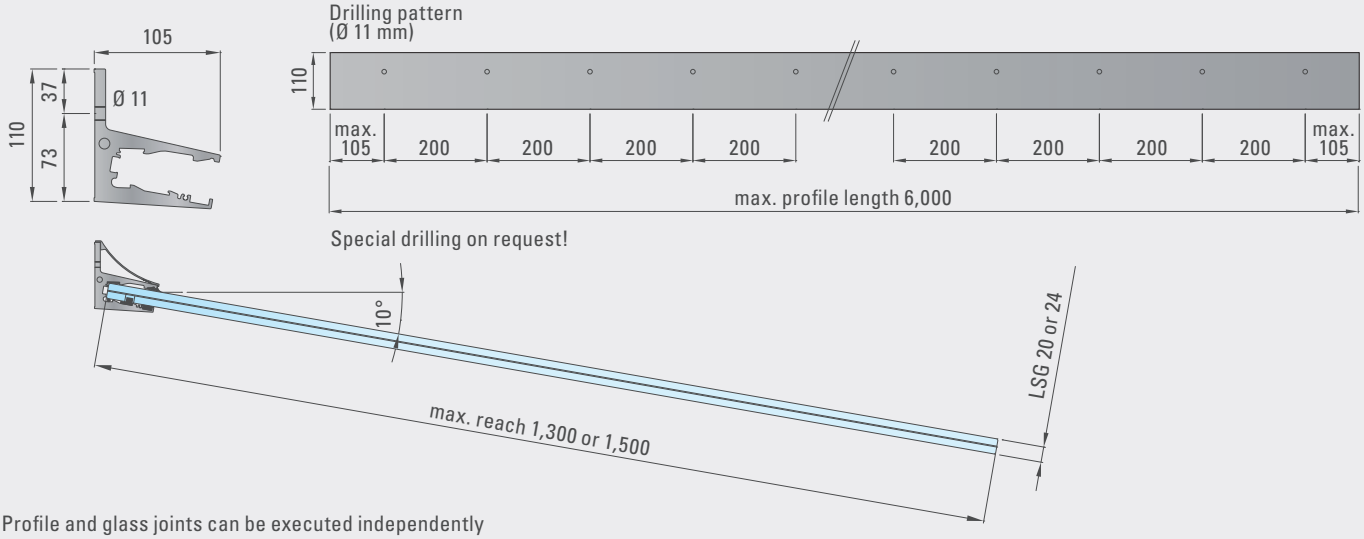
- Glass thickness: **LSG 20 mm**
  - max. reach 1,300 mm for 1.6 kN/m² load *
  - max. load 4.2 kN/m² * for 900 mm reach

System 1,500

- Glass thickness: **LSG 24 mm**
  - max. reach 1,500 mm for 1.6 kN/m² load *
  - max. load 4.2 kN/m² * for 1,050 mm reach

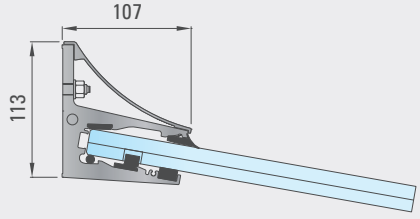
* Maximum resulting characteristic area load from wind and snow, purs. DIN EN 1991-3 and -4

Profile dimensions



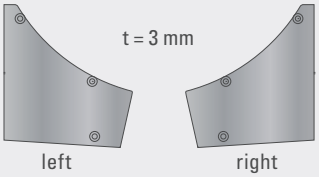
Profile and glass joints can be executed independently

Facing cover

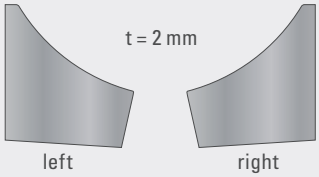


End cap

Screwed flashing



OPTIONAL: Additional, self-adhesive end cap to cover the screws, self-adhesive on one side



All intermediate formats and individual sizes for all systems are available.

GLASSLINE

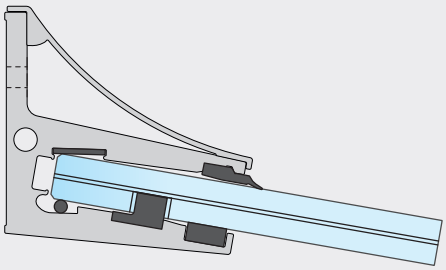
CANOPY *cloud*

ADVANTAGES OF OUR STOCK PROGRAM

- short delivery time & speedy availability
- favourable price
- completely picked and ready to go
- proven standard dimensions

Stock program

System 800 | **System** 900 | **System** 1,000 | **System** 1,100

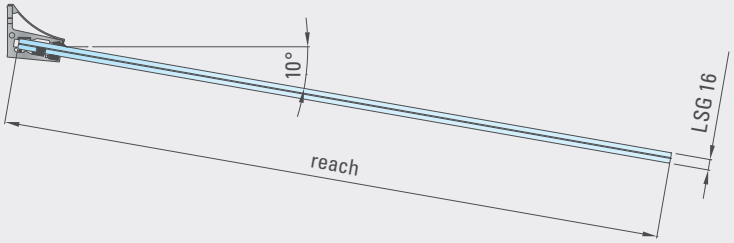


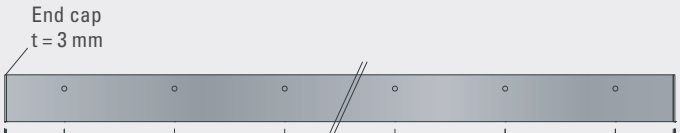
- Reach: 800 mm, 900 mm, 1,000 mm, 1,100 mm
- Glass thickness: LSG 16 mm
- Pitch: 10°
- Profiletype: 1
- Material: Aluminium

- Surfaces:
  - "Natural" untreated
  - E6EV1 anodised
  - Anthracite RAL 7016
  - White RAL 9016
  - Iron mica gray DB 703

Permissable effects from snow and wind pressure pursuant ETA-15/0838

- Reach **800 mm**: 3.1 kN/m²
- Reach **900 mm**: 2.6 kN/m²
- Reach **1,000 mm**: 2.0 kN/m²
- Reach **1,100 mm:** 1.6 kN/m²

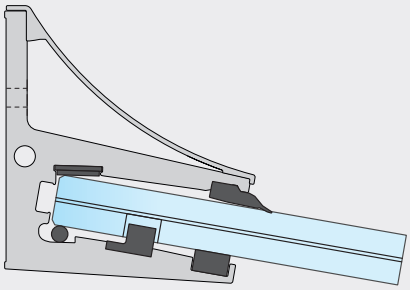




Glass dimensions	105	200	200	200	200	105
1,200 mm	canopy length 1,216					
1,400 mm	canopy length 1,416					
1,600 mm	canopy length 1,616					
1,800 mm	canopy length 1,816					
2,000 mm	canopy length 2,016					
2,200 mm	canopy length 2,216					
2,400 mm	canopy length 2,416					
2,600 mm	canopy length 2,416					
2,800 mm	canopy length 2,816					
3,000 mm	canopy length 3,016					

Glass joints (right and left) approx. 5 mm

System 1,200 | **System** 1,300

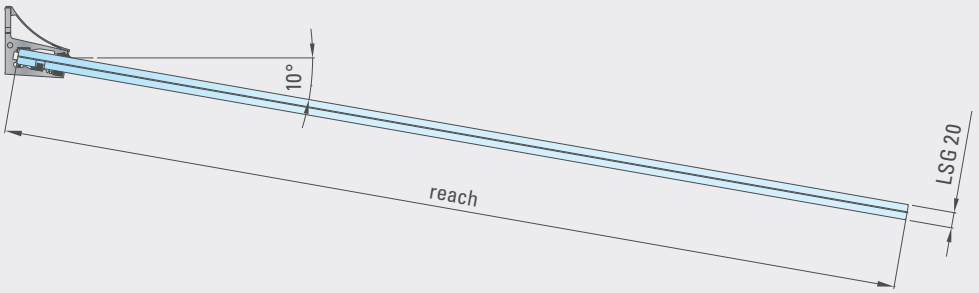


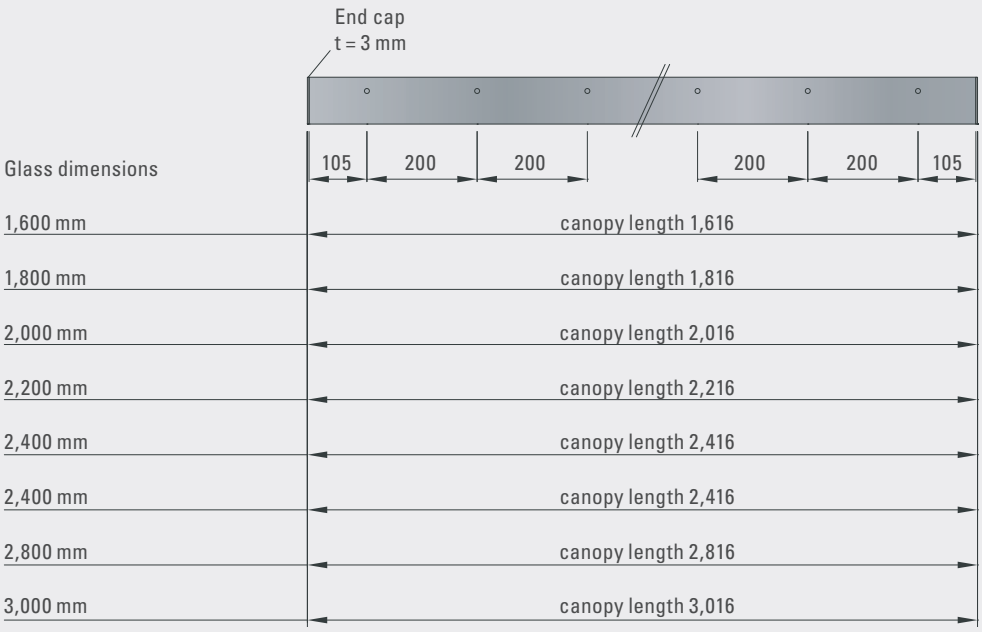
- reach: 1,200 mm, 1,300 mm
- Glass thickness: LSG 20 mm
- Pitch: 10°
- Profiletype: 3
- Material: Aluminium

- Surfaces:
  - "Natural" untreated
  - E6EV1 anodised
  - Anthracite RAL 7016
  - White RAL 9016
  - Iron mica gray DB 703

Permissable effects from snow and wind pressure pursuant ETA-15/0838

- Reach **1,200 mm**: 2.0 kN/m²
- Reach **1,300 mm**: 1.6 kN/m²





Glass joints (right and left) approx. 5 mm

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CANOPY *cloud*

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- short delivery time & speedy availability
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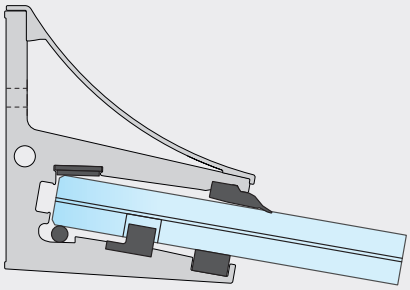
- completely picked and ready to go
- proven standard dimensions

Stock program

System 1,500

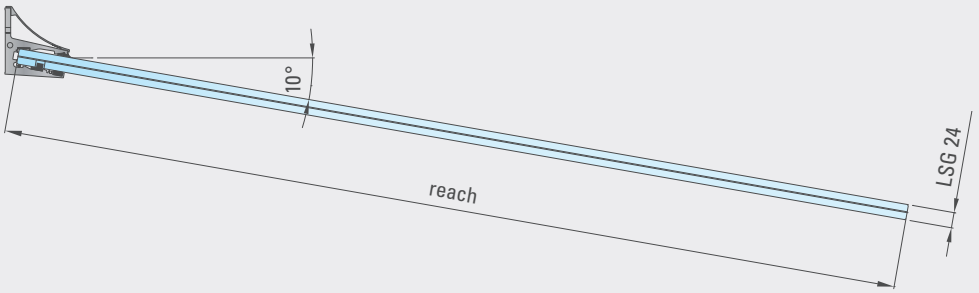


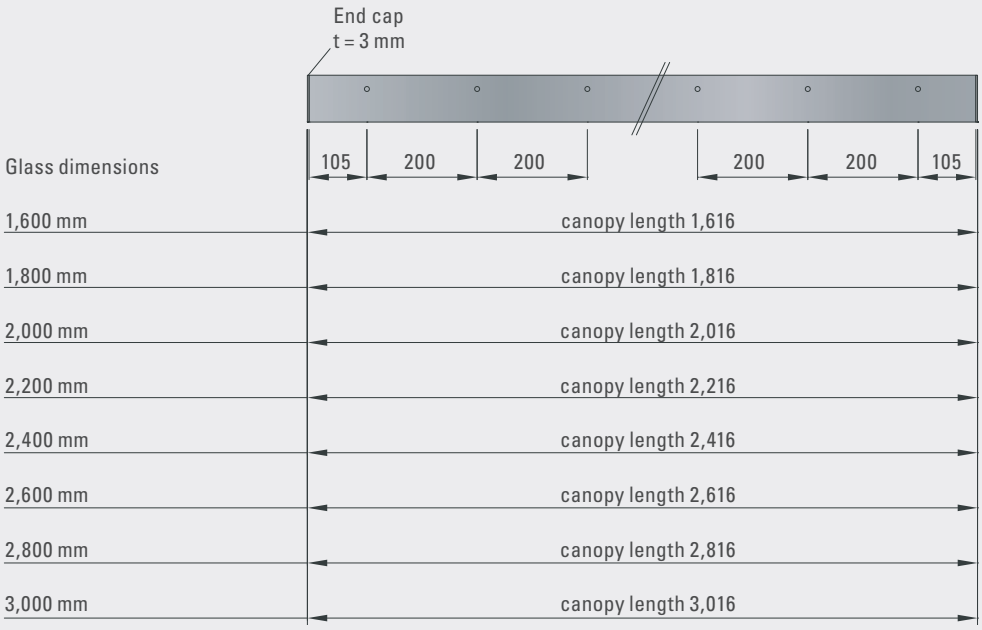
- Reach: 1,500 mm
- Glass thickness: LSG 24 mm
- Pitch: 10°
- Profiletype: 5
- Material: Aluminium

- Surfaces:
  - "Natural" untreated
  - E6EV1 anodised
  - Anthracite RAL 7016
  - White RAL 9016
  - Iron mica gray DB 703

Permissable effects from snow and wind pressure pursuant ETA-15/0838

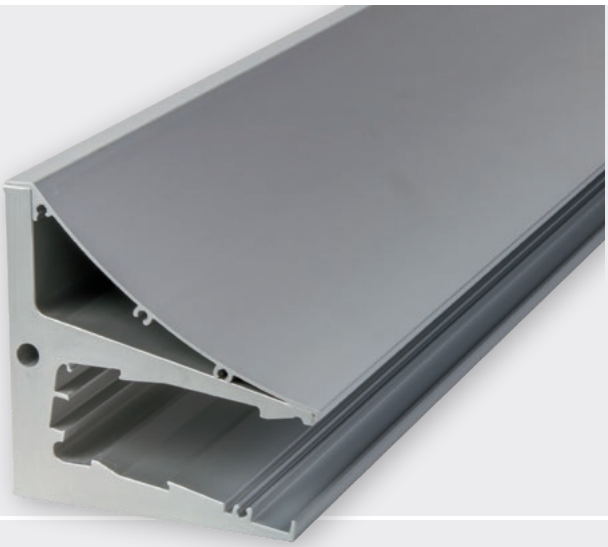
- Reach **1,500 mm**: 1.6 kN/m²





Glass joints (right and left) approx. 5 mm

System 1,700 individual
System 1,900 individual



Characteristics

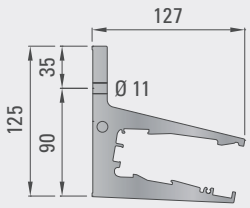
- Material Aluminium
- Profile length max. 6,000 mm
- Glass length 600 - 3,000 mm
- Roof pitch 10°
- Profiletype 5
- Surfaces:
  - "Natural" untreated
  - Stainless steel look (E6EV1)
  - RAL or special colour powder-coated or anodised

System 1,700 individual
- Glass thickness: **LSG 26 mm**
  - max. reach 1,700 mm for 1.6 kN/m² load *
  - max. load 4.3 kN/m² * for 1,150 mm reach

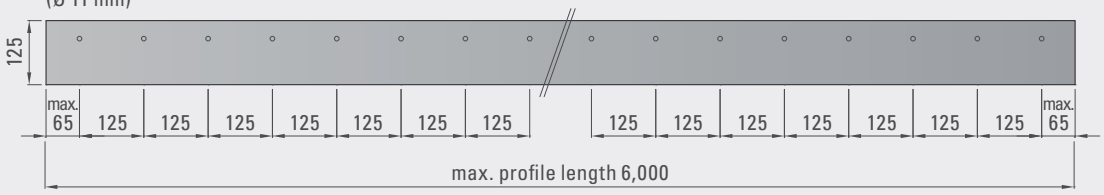
System 1,900 individual
- Glass thickness: **LSG 30 mm**
  - max. reach 1,900 mm for 1.6 kN/m² load *
  - max. load 4.3 kN/m² * for 1,350 mm reach

* Maximum resulting characteristic area load from wind and snow, purs. DIN EN 1991-3 and -4

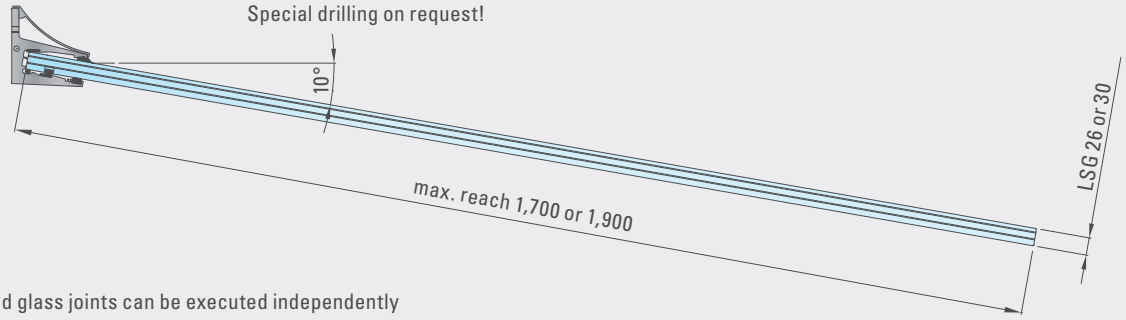
Profile dimensions



Drilling pattern
(Ø 11 mm)

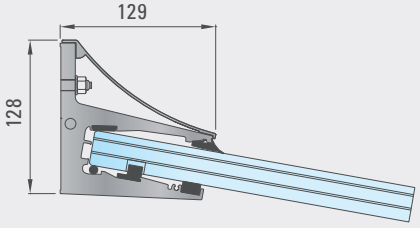


Special drilling on request!



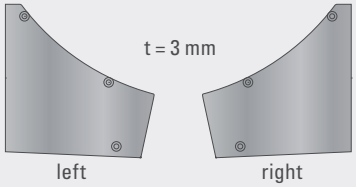
Profile and glass joints can be executed independently

Facing cover

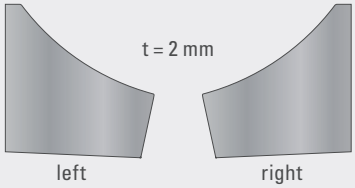


End cap

Screwed flashing



OPTIONAL: Additional, self-adhesive end cap to cover the screws, self-adhesive on one side



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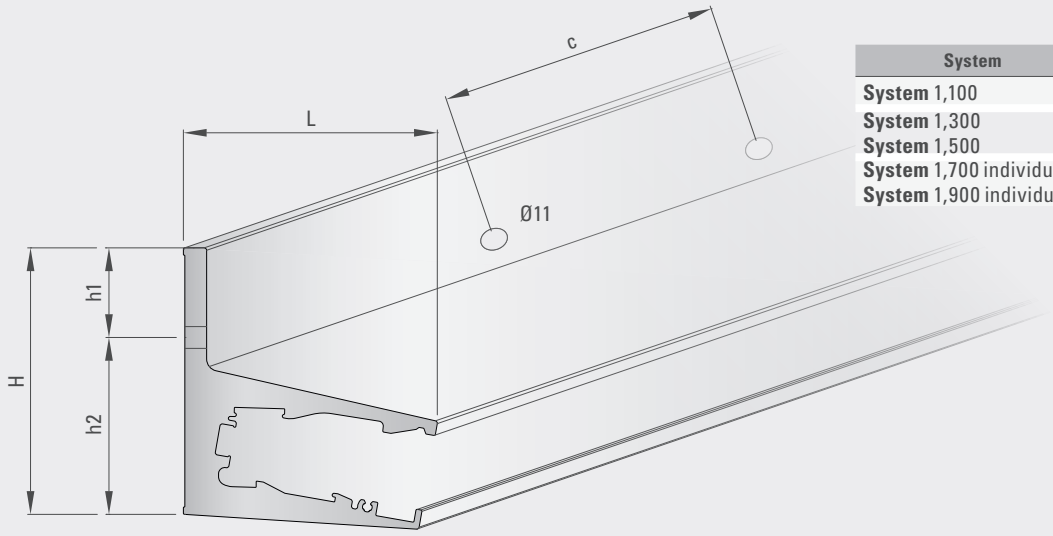
System dimensions

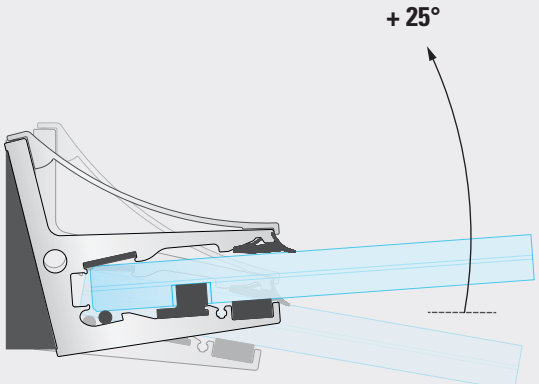


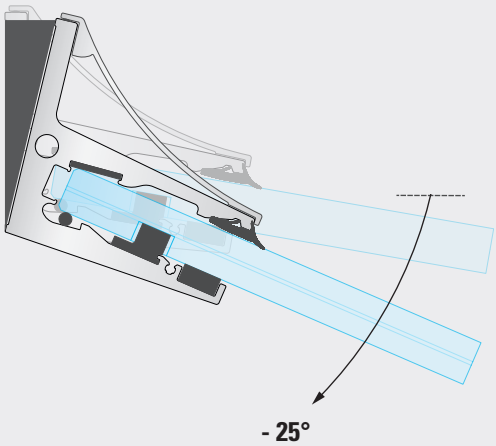
System	H	h1	h2	L	c
System 1,100	85	25	60	93	200
System 1,300 **System** 1,500	110	37	73	105	200
System 1,700 individual **System** 1,900 individual	125	35	90	127	125

in mm

Adjustment of the inclination

By adding shims to the profile, it is possible to create a pitch that deviates by +/- 25° from the horizontal.



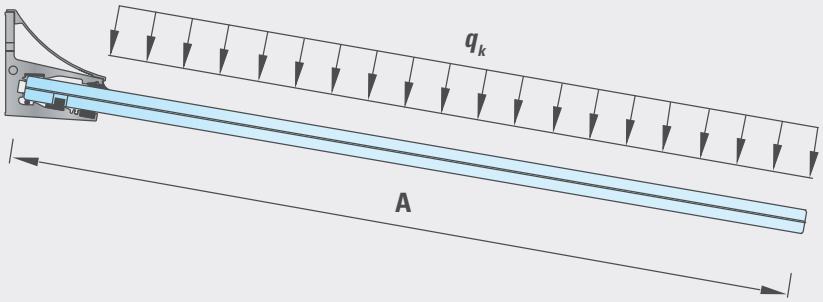


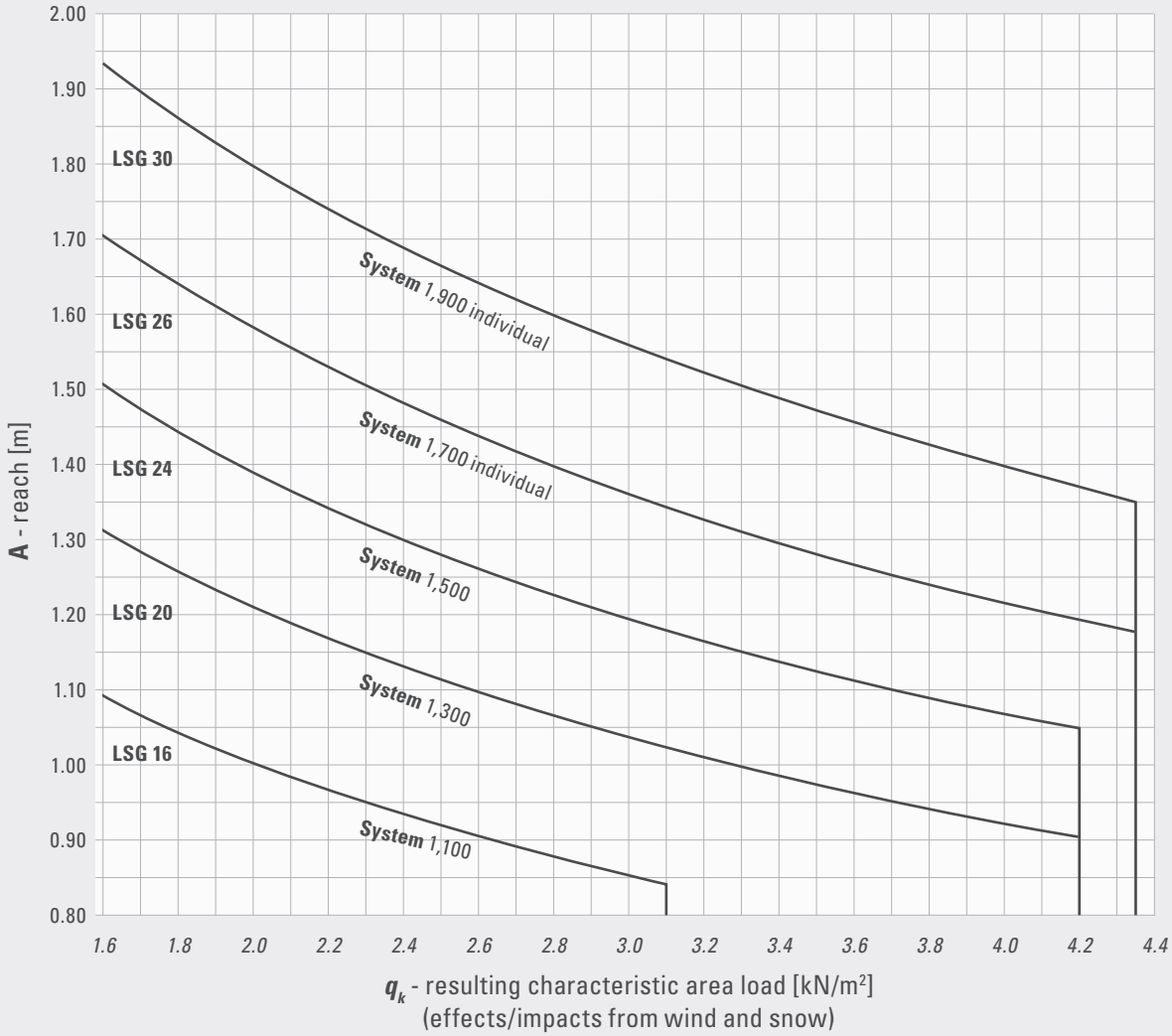

14

Technical specifications (PURS. ETA-15/0838)

Glass reaches

with the associated resulting characteristic area loads





Calculating the characteristic area loads q_k from wind and snow

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CANOPY *cloud*

Downward loads from snow and wind (pressure) ($q_k > 0$): $q_k = s + 0.6 \cdot w_e$ or $q_k = 0.5 \cdot s + w_e$
(the larger value is decisive: downward loads s and w are to be set as positive values)

Upward loads from wind (suction) ($q_k < 0$): $q_k = w_e$
(downward load w is to be set as a negative value)

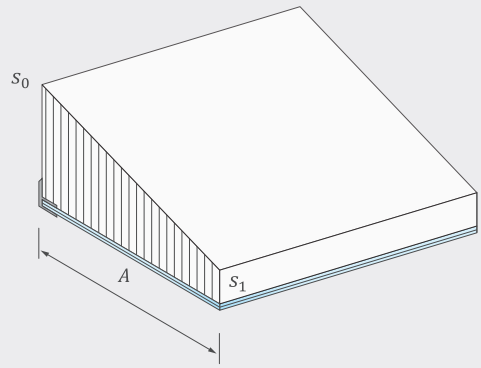
Wind and snow loads(w_e, s) must be determined purs. DIN EN 1991-1-3 or DIN EN 1991-1-4.

Determining the uniform snow load (purs. ETA-15/0838)

Snow load (s) purs. DIN EN 1991-1-3, Para. 5.3.6, Height differences on roofs.
(Laterally open canopies accessible for snow removal)

Uniform area load from snow:

$$s = \frac{s_0 + s_1}{2{,}02}$$



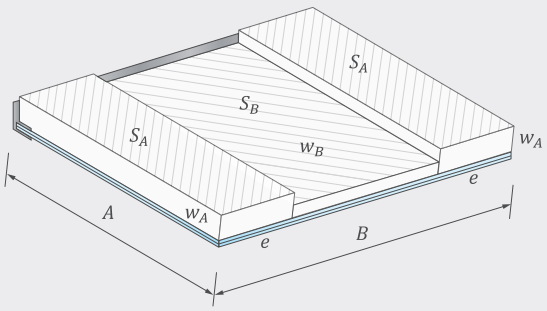
s_0 - Snow on the building
s_1 - Snow at the exposed/open edge

Determining the uniform wind load (purs. ETA-15/0838)

Wind load (w_e) purs. DIN EN 1991-1-4/NA, Annex NA.V, Pressure coefficients for canopies

Uniform area load from wind:

$$w_e = 1.1 \frac{2 \cdot w_A \cdot S_A + w_B \cdot S_B}{S_A + S_b}$$



w_A - Wind load area A (edge area)
w_B - Wind load area B (middle area)
S_A - Surface area A: $S_A = e \cdot A$
e = $A/4$ or $B/2$; the smaller value is decisive
S_B - Surface area B: $S_B = A \cdot B - 2 \cdot S_A$

For canopies with the ratio width to reach $B : A \leq 1.5:1$ is to be assumed as the wind load of the area A for the complete canopy: $w = w_A$

Alternatively, the maximum load components can be assumed to be uniform: ($w_e = w_{e.max}$; $s = s_{max}$)

Glass pane models

Polygonal glass plates, curved edges and cutouts
purs. AbZ and ETA-15/0838

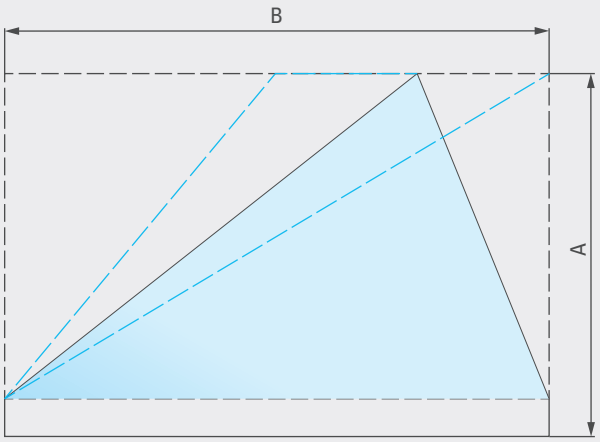


Fig. 1

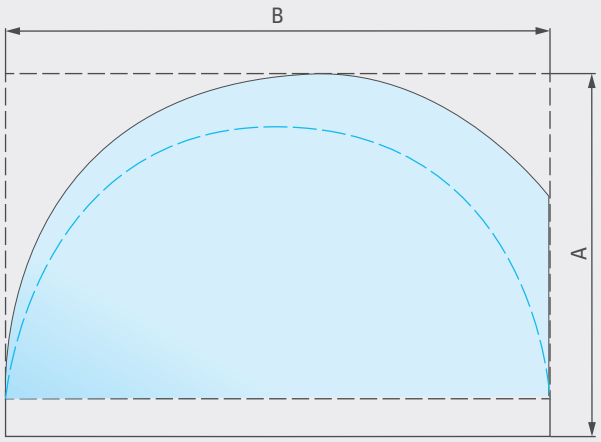


Fig. 2

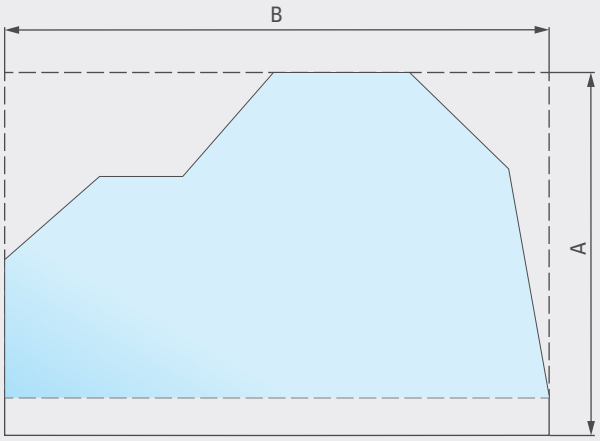


Fig. 3

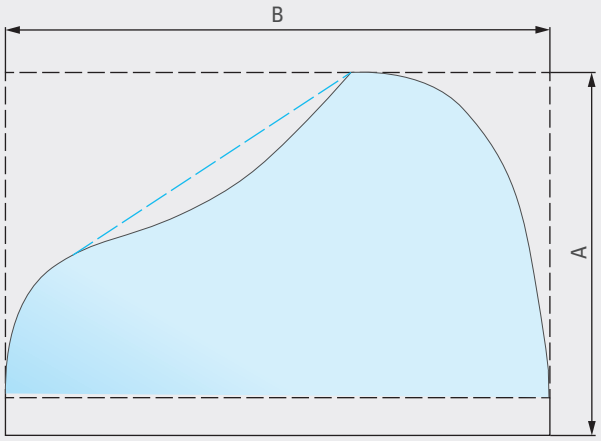


Fig. 4

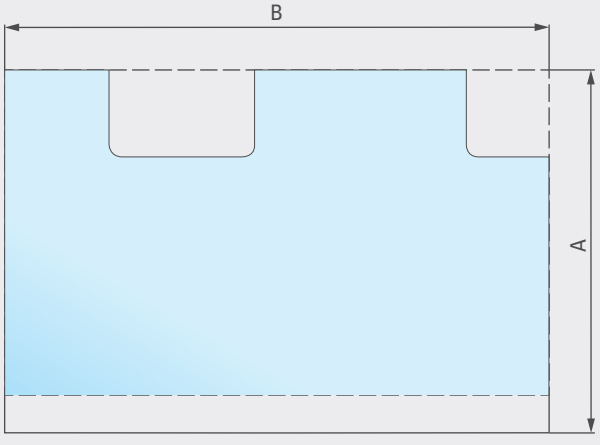


Fig. 5

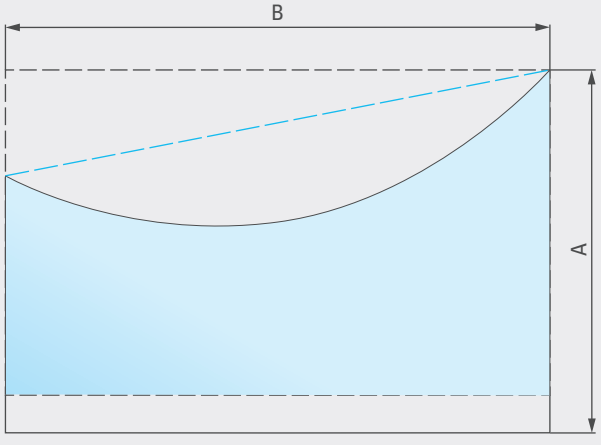
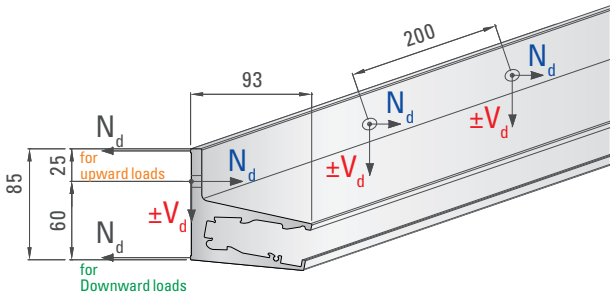


Fig. 6

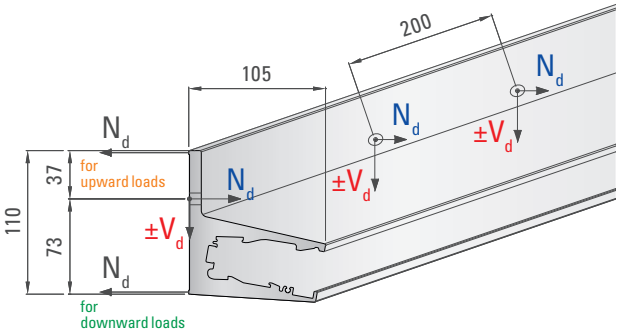
Bearing forces

Resulting calculated bearing forces
per attachment element purs. ETA-15/0838



System 1,100 Glass thickness **LSG 16** (LSG-STG 2x8 mm with SGP 1.52 mm), Profiletype 1

Resulting characteristic area loads q_k [kN/m²] (effects/impacts from wind and snow)																		
A [mm]	**Upward loads**				**Downward loads**													
	-2.00	***-1.50***	***-1.00***	***-0.80***	***0.60***	***0.80***	***1.00***	***1.20***	***1.40***	***1.60***	***1.8***	***2.00***	***2.20***	***2.40***	***2.60***	***2.80***	***3.00***	***3.10***
Design values of the horizontal bearing forces per attachment element N_d [kN]																		
1100	14.30	10.18	6.05	4.40	3.06	3.69	4.33	4.97	5.60	6.24	-	-	-	-	-	-	-	-
1000	11.82	8.41	5.00	3.64	2.53	3.05	3.58	4.11	4.63	5.16	5.68	6.21	-	-	-	-	-	-
900	9.57	6.81	4.05	2.95	2.05	2.47	2.90	3.33	3.75	4.18	4.60	5.03	5.46	5.88	6.31	-	-	-
800	7.56	5.38	3.20	2.33	1.62	1.95	2.29	2.63	2.96	3.30	3.64	3.97	4.31	4.65	4.99	5.32	5.66	5.83
700	5.79	4.12	2.45	1.78	1.24	1.50	1.75	2.01	2.27	2.53	2.79	3.04	3.30	3.56	3.82	4.07	4.33	4.46
Design values of the vertical bearing forces per attachment element V_d [kN]																		
1100	-0.57	-0.41	-0.24	-0.18	0.32	0.38	0.45	0.51	0.58	0.65	-	-	-	-	-	-	-	-
1000	-0.52	-0.37	-0.22	-0.16	0.29	0.35	0.41	0.47	0.53	0.59	0.65	0.71	-	-	-	-	-	-
900	-0.47	-0.33	-0.20	-0.14	0.26	0.31	0.37	0.42	0.48	0.53	0.58	0.64	0.69	0.75	0.80	-	-	-
800	-0.42	-0.30	-0.18	-0.13	0.23	0.28	0.33	0.37	0.42	0.47	0.52	0.57	0.61	0.66	0.71	0.76	0.81	0.83
700	-0.36	-0.26	-0.15	-0.11	0.20	0.24	0.29	0.33	0.37	0.41	0.45	0.50	0.54	0.58	0.62	0.66	0.71	0.73



System 1,300 Glass thickness **LSG 20** (LSG-STG 2x10 mm with SGP 1.52 mm), Profiletype 3

Resulting characteristic area loads q_k [kN/m²] (effects/impacts from wind and snow)																		
A [mm]	**Upward loads**				**Downward loads**													
	-2.40	*-2.10*	*-1.60*	*-1.20*	*1.20*	*1.40*	*1.60*	*1.8*	*2.00*	*2.40*	*2.60*	*2.80*	*3.00*	*3.20*	*3.40*	*3.60*	*3.80*	*4.20*
Design values of the horizontal bearing forces per attachment element N_d [kN]																		
1300	-	13.17	9.44	6.46	5.98	6.70	7.42	-	-	-	-	-	-	-	-	-	-	-
1100	11.03	9.43	6.76	4.63	4.28	4.80	5.32	5.83	6.35	7.39	7.91	-	-	-	-	-	-	-
1000	9.12	7.79	5.59	3.82	3.54	3.96	4.39	4.82	5.25	6.11	6.54	6.96	7.39	7.82	8.25	8.68	-	-
900	7.39	6.31	4.53	3.10	2.86	3.21	3.56	3.91	4.25	4.95	5.29	5.64	5.99	6.34	6.68	7.03	7.38	8.07
800	5.84	4.99	3.58	2.45	2.26	2.54	2.81	3.09	3.36	3.91	4.18	4.46	4.73	5.01	5.28	5.55	5.83	6.38
Design values of the vertical bearing forces per attachment element V_d [kN]																		
1300	-	-0.69	-0.49	-0.34	0.64	0.72	0.80	-	-	-	-	-	-	-	-	-	-	-
1100	-0.68	-0.58	-0.42	-0.29	0.54	0.61	0.68	0.74	0.81	0.94	1.01	-	-	-	-	-	-	-
1000	-0.62	-0.53	-0.38	-0.26	0.50	0.56	0.62	0.68	0.74	0.86	0.92	0.98	1.04	1.10	1.16	1.22	-	-
900	-0.56	-0.48	-0.34	-0.23	0.45	0.50	0.55	0.61	0.66	0.77	0.82	0.88	0.93	0.99	1.04	1.09	1.15	1.26
800	-0.50	-0.42	-0.30	-0.21	0.40	0.44	0.49	0.54	0.59	0.68	0.73	0.78	0.83	0.88	0.92	0.97	1.02	1.12

System 1,500 Glass thickness **LSG 24** (LSG-STG 2x12 mm with SGP 1.52 mm), Profiletype 3

Resulting characteristic area loads q_k [kN/m²] (effects/impacts from wind and snow)																		
A [mm]	**Upward loads**				**Downward loads**													
	-2.40	*-2.20*	*-1.60*	*-1.20*	*1.20*	*1.40*	*1.60*	*1.8*	*2.00*	*2.40*	*2.60*	*2.80*	*3.00*	*3.20*	*3.40*	*3.60*	*3.80*	*4.20*
Design values of the horizontal bearing forces per attachment element N_d [kN]																		
1500	-	18.20	12.24	8.27	8.17	9.14	10.10	-	-	-	-	-	-	-	-	-	-	-
1300	15.16	13.67	9.20	6.21	6.14	6.86	7.59	8.31	9.04	10.48	-	-	-	-	-	-	-	-
1100	10.85	9.79	6.58	4.45	4.39	4.91	5.43	5.95	6.47	7.51	8.02	8.54	9.06	9.58	10.10	10.62	11.14	-
1050	9.89	8.92	6.00	4.05	4.00	4.48	4.95	5.42	5.89	6.84	7.31	7.78	8.26	8.73	9.20	9.67	10.15	11.09
900	7.27	6.55	4.41	2.98	2.94	3.29	3.64	3.98	4.33	5.02	5.37	5.72	6.07	6.41	6.76	7.11	7.45	8.15
Design values of the vertical bearing forces per attachment element V_d [kN]																		
1500	-	-0.83	-0.56	-0.38	0.76	0.85	0.94	-	-	-	-	-	-	-	-	-	-	-
1300	-0.79	-0.72	-0.48	-0.33	0.66	0.74	0.82	0.90	0.97	1.13	-	-	-	-	-	-	-	-
1100	-0.67	-0.61	-0.41	-0.28	0.56	0.63	0.69	0.76	0.82	0.96	1.02	1.09	1.15	1.22	1.29	1.35	1.42	-
1050	-0.64	-0.58	-0.39	-0.26	0.53	0.60	0.66	0.72	0.79	0.91	0.97	1.04	1.10	1.16	1.23	1.29	1.35	1.48
900	-0.55	-0.50	-0.33	-0.23	0.46	0.51	0.57	0.62	0.67	0.78	0.84	0.89	0.94	1.00	1.05	1.11	1.16	1.27

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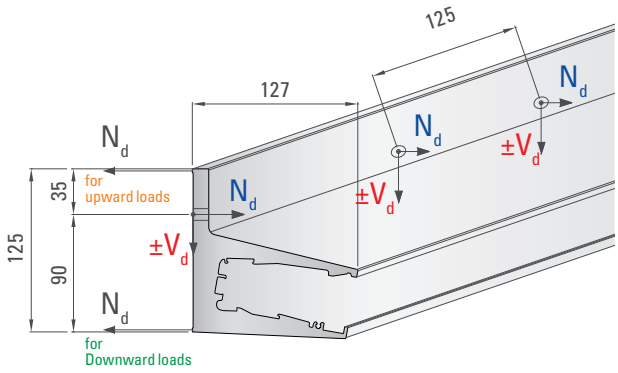
CANOPY *cloud*

Bearing forces

Resulting calculated bearing forces
per attachment element purs. ETA-15/0838



System 1,700 individual Glass thickness **LSG 26** (LSG-STG 6+10+10 mm with SGP 1.52 mm), Profiletype 5

Resulting characteristic area loads q_k [kN/m²] (effects/impacts from wind and snow)																		
A	**Upward loads**				**Downward loads**													
[mm]	*-3.25*	*-2.30*	*-1.60*	*-1.30*	*1.20*	*1.40*	*1.60*	*1.8*	*2.00*	*2.30*	*2.60*	*2.80*	*3.00*	*3.20*	*3.40*	*3.60*	*3.80*	*4.35*
Design values of the horizontal bearing forces per attachment element N_d [kN]																		
1700	-	-	9.88	7.34	5.56	6.18	6.80	-	-	-	-	-	-	-	-	-	-	-
1500	-	12.30	7.69	5.71	4.33	4.81	5.30	5.78	6.27	6.99	-	-	-	-	-	-	-	-
1300	13.95	9.24	5.78	4.29	3.25	3.61	3.98	4.34	4.71	5.25	5.80	6.16	6.53	6.89	-	-	-	-
1175	11.39	7.55	4.72	3.51	2.66	2.95	3.25	3.55	3.85	4.29	4.74	5.04	5.33	5.63	5.93	6.23	6.52	7.34
900	6.68	4.43	2.77	2.06	1.56	1.73	1.91	2.08	2.26	2.52	2.78	2.95	3.13	3.30	3.48	3.65	3.83	4.31
Design values of the vertical bearing forces per attachment element V_d [kN]																		
1700	-	-	-0.37	-0.28	0.57	0.63	0.70	-	-	-	-	-	-	-	-	-	-	-
1500	-	-0.53	-0.33	-0.24	0.50	0.56	0.61	0.67	0.73	0.81	-	-	-	-	-	-	-	-
1300	-0.69	-0.46	-0.28	-0.21	0.44	0.48	0.53	0.58	0.63	0.70	0.78	0.83	0.87	0.92	-	-	-	-
1175	-0.62	-0.41	-0.26	-0.19	0.39	0.44	0.48	0.53	0.57	0.64	0.70	0.75	0.79	0.83	0.88	0.92	0.97	1.09
900	-0.48	-0.32	-0.20	-0.15	0.30	0.33	0.37	0.40	0.44	0.49	0.54	0.57	0.60	0.64	0.67	0.71	0.74	0.83

System 1,900 individual Glass thickness **LSG 30** (LSG-STG 6+12+12 mm with SGP 1.52 mm), Profiletype 5

Resulting characteristic area loads q_k [kN/m²] (effects/impacts from wind and snow)																		
A	**Upward loads**				**Downward loads**													
[mm]	*-3.25*	*-2.60*	*-1.60*	*-1.20*	*1.20*	*1.40*	*1.60*	*1.8*	*2.00*	*2.35*	*2.60*	*2.80*	*3.00*	*3.30*	*3.50*	*3.70*	*4.00*	*4.35*
Design values of the horizontal bearing forces per attachment element N_d [kN]																		
1900	-	-	11.63	7.40	7.29	8.07	8.85	-	-	-	-	-	-	-	-	-	-	-
1700	-	17.78	9.31	5.93	5.84	6.46	7.08	7.71	8.33	9.42	-	-	-	-	-	-	-	-
1500	18.13	13.84	7.25	4.61	4.55	5.03	5.52	6.00	6.49	7.33	7.94	8.43	8.91	9.64	-	-	-	-
1350	14.68	11.21	5.87	3.74	3.68	4.08	4.47	4.86	5.25	5.94	6.43	6.82	7.22	7.81	8.20	8.59	9.18	9.87
1100	9.75	7.44	3.90	2.48	2.44	2.71	2.97	3.23	3.49	3.94	4.27	4.53	4.79	5.18	5.44	5.70	6.10	6.55
Design values of the vertical bearing forces per attachment element V_d [kN]																		
1900	-	-	-0.39	-0.25	0.67	0.74	0.81	-	-	-	-	-	-	-	-	-	-	-
1700	-	-0.67	-0.35	-0.22	0.60	0.66	0.73	0.79	0.85	0.96	-	-	-	-	-	-	-	-
1500	-0.77	-0.59	-0.31	-0.20	0.53	0.58	0.64	0.70	0.75	0.85	0.92	0.98	1.03	1.12	-	-	-	-
1350	-0.70	-0.53	-0.28	-0.18	0.47	0.53	0.58	0.63	0.68	0.77	0.83	0.88	0.93	1.01	1.06	1.11	1.18	1.27
1100	-0.57	-0.43	-0.23	-0.14	0.39	0.43	0.47	0.51	0.55	0.62	0.68	0.72	0.76	0.82	0.86	0.90	0.96	1.04

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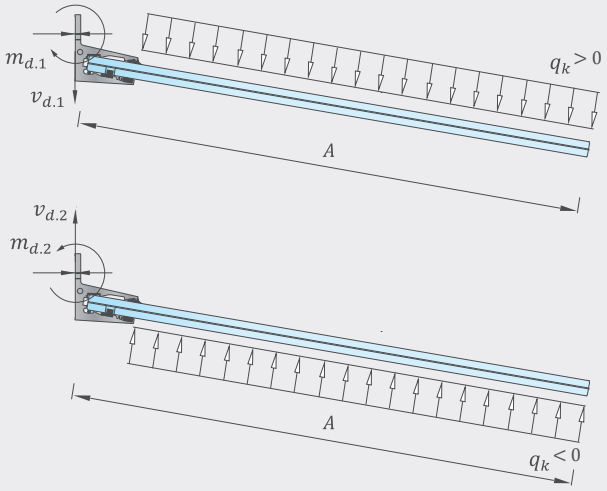
CANOPY *cloud*

Design values of the bearing forces

Linear bearing torque/moment m_d and linear bearing force v_d (e.g. for calculation of substructure)



Linear bearing torque:

$$m_{d.1} = (\gamma_Q \cdot q_k + \gamma_{G.sup} \cdot g) \cdot \frac{A^2}{2}$$ under downward load ($q_k > 0$)

$$m_{d.2} = (\gamma_Q \cdot q_k - \gamma_{G.inf} \cdot g) \cdot \frac{A^2}{2}$$ under upward load ($q_k < 0$)[1)]

Linear bearing force:

$$v_{d.1} = (\gamma_Q \cdot q_k + \gamma_{G.sup} \cdot g) \cdot A$$ unter downward load ($q_k > 0$)

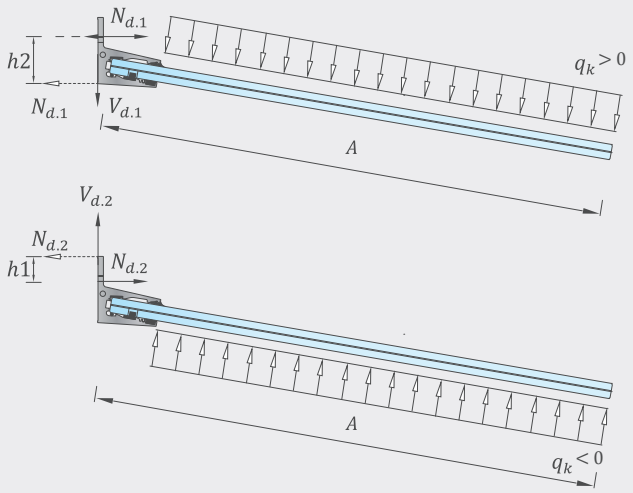
$$v_{d.2} = (\gamma_Q \cdot q_k - \gamma_{G.inf} \cdot g) \cdot A$$ unter upward load ($q_k < 0$)[1)]

[1)] The "upward load" load case ($q_k < 0$) is not relevant if the glass weight is greater than the area load.

- q_k - The resulting characteristic area load [kN/m²]: q_k = s + 0,6 · w or q_k = 0,5 · s + w
- g - The characteristic glass weight [kN/m²]: g = D / 1000· ρ_{glass}
  ρ_{glass} = 25 kN/m³, D - glass thickness [mm] (only glass)
- γ_Q - Partial safety factor for variable effects/impacts (γ_Q = 1.50)
- $\gamma_{G.sup}$ - Partial safety factor for unfavourable permanent effects/impacts ($\gamma_{G.sup}$ = 1.35)
- $\gamma_{G.inf}$ - Partial safety factor for favourable permanent effects/impacts ($\gamma_{G.inf}$ = 1.00)
- A - Overhang

Linear bearing torque N_d and V_d per fastener under downward and upward loads:

(e.g. layout of fasteners)



Tensile force in the support: $N_{d.1} = m_{d.1} \cdot C/(h2 - \Delta h)$ under downward load ($q_k > 0$)

$N_{d.2} = m_{d.2} \cdot C/(h1 - \Delta h)$ under upward load ($q_k < 0$)

Shear force in the support: $V_{d.1} = v_{d.1} \cdot C$ under downward load ($q_k > 0$)

$V_{d.2} = v_{d.2} \cdot C$ under upward load ($q_k < 0$)

$m_{d.1}, m_{d.2}$	-	Linear bearing torque (page 18)
$v_{d.1}, v_{d.2}$	-	Linear bearing force (page 18)
C	-	between fasteners (Profiles 1 and 3: C = 200 mm, Profile 5: C = 125 mm)
$h1$	-	Cantilever up: distance between mounting axis and upper mounting rail edge [mm]
$h2$	-	Cantilever down: distance between mounting axis and lower mounting rail edge [mm]
Δh	-	Cantilever arm reduction (Δh= 3 mm for mounting rails of all types)

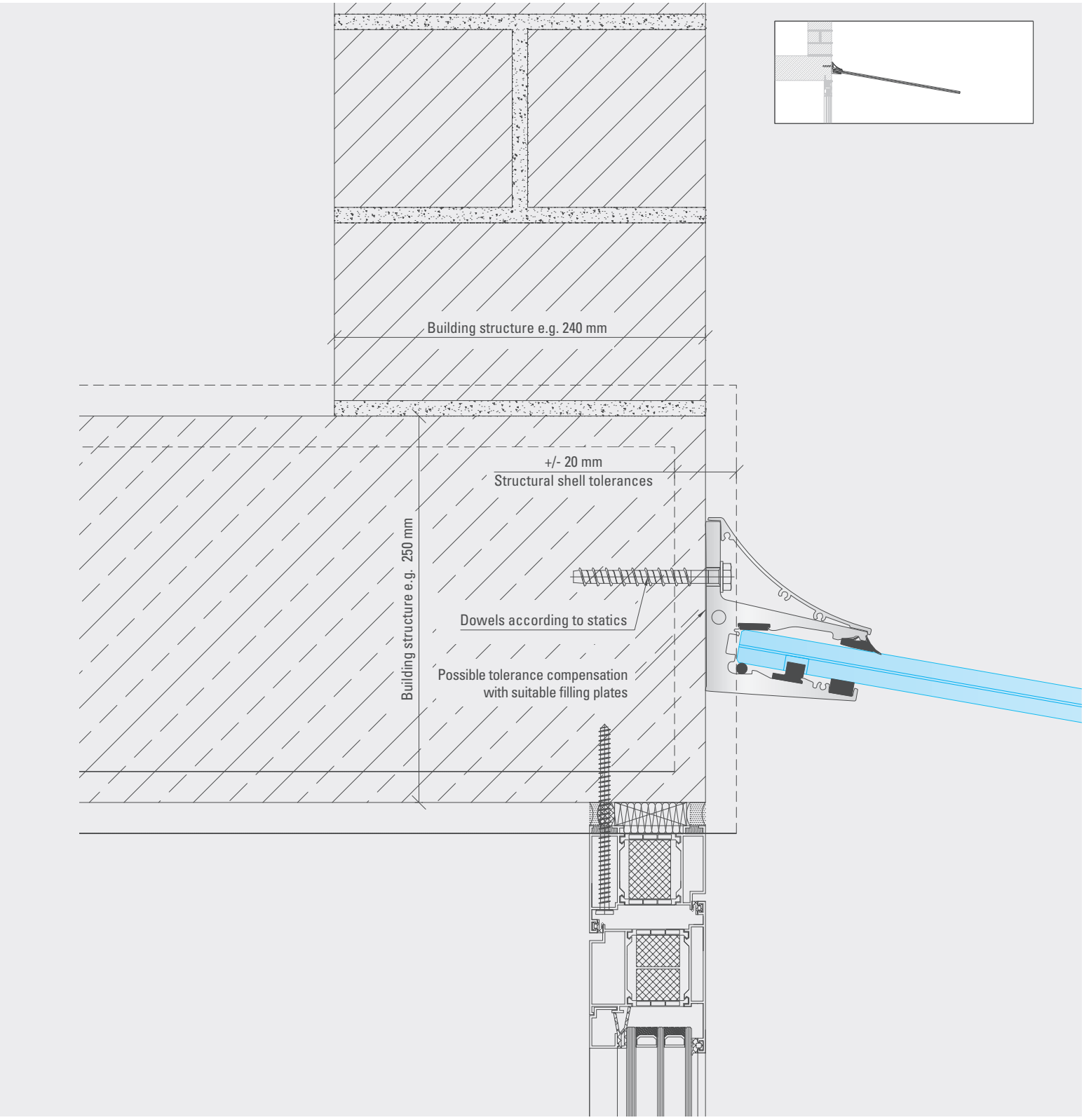
The calculated values of the tensile and shear forces (N_d and V_d) are given on pages 16 to 18 for the various canopy types and stepwise for upward and downward loads.
Intermediate values may be generated by linear interpolation.

Application examples

Glass canopy CANOPY *cloud*

concrete

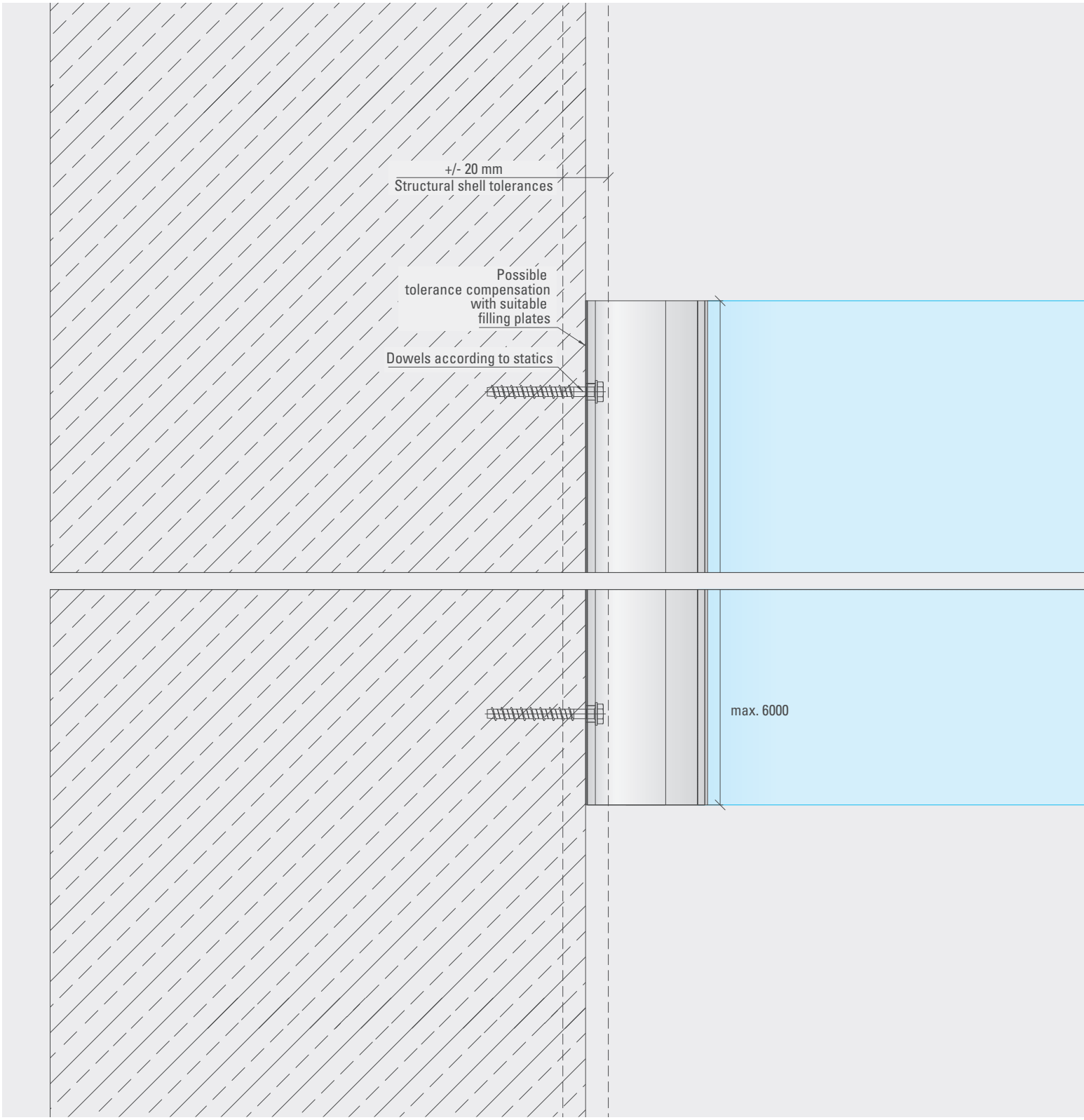
Vertical section



Drawing number: CC-P3-511

Proofs for load input and forwarding must be provided by the customer

Horizontal section

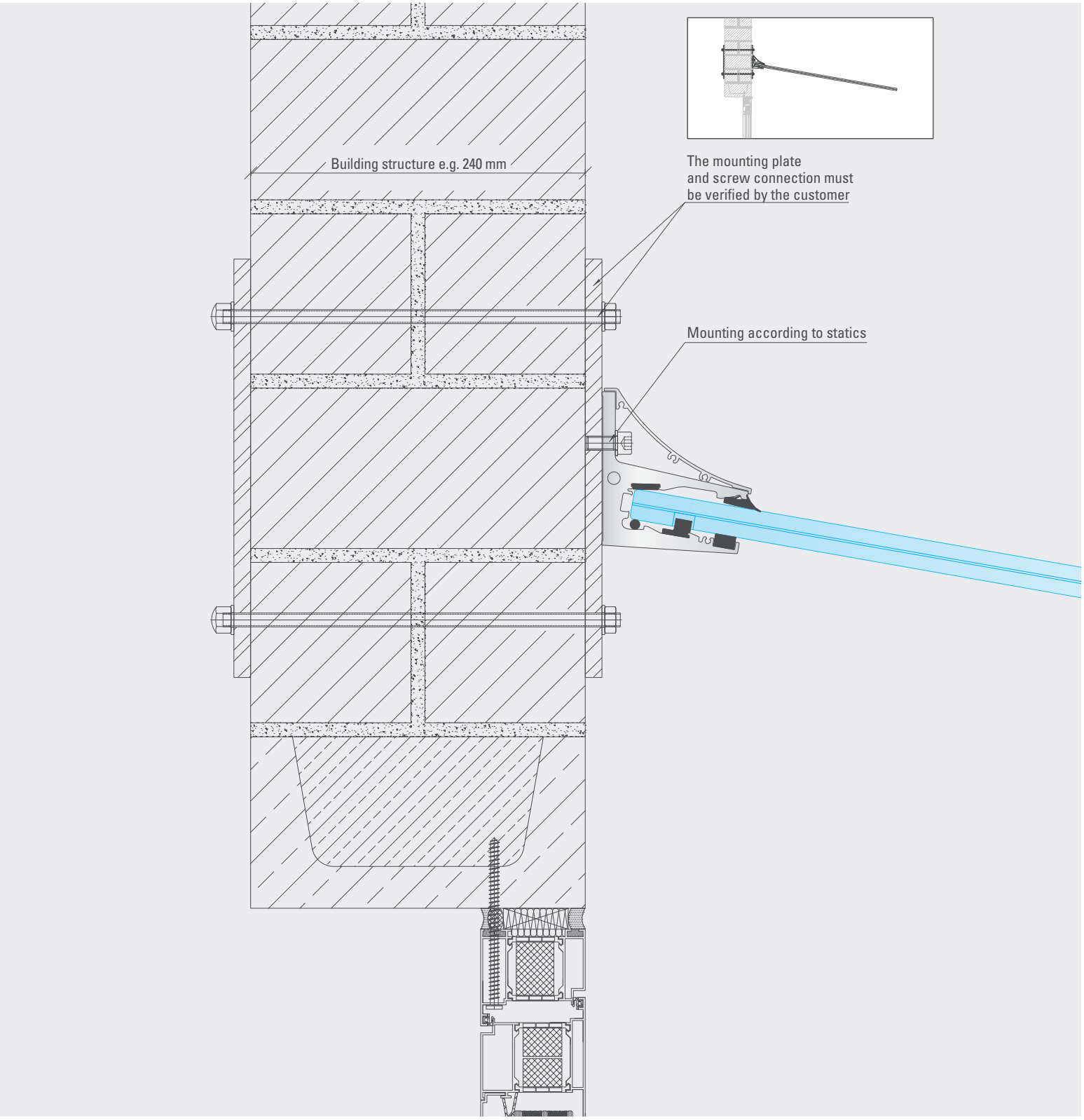


Drawing number: CC-P3-011
Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

masonry

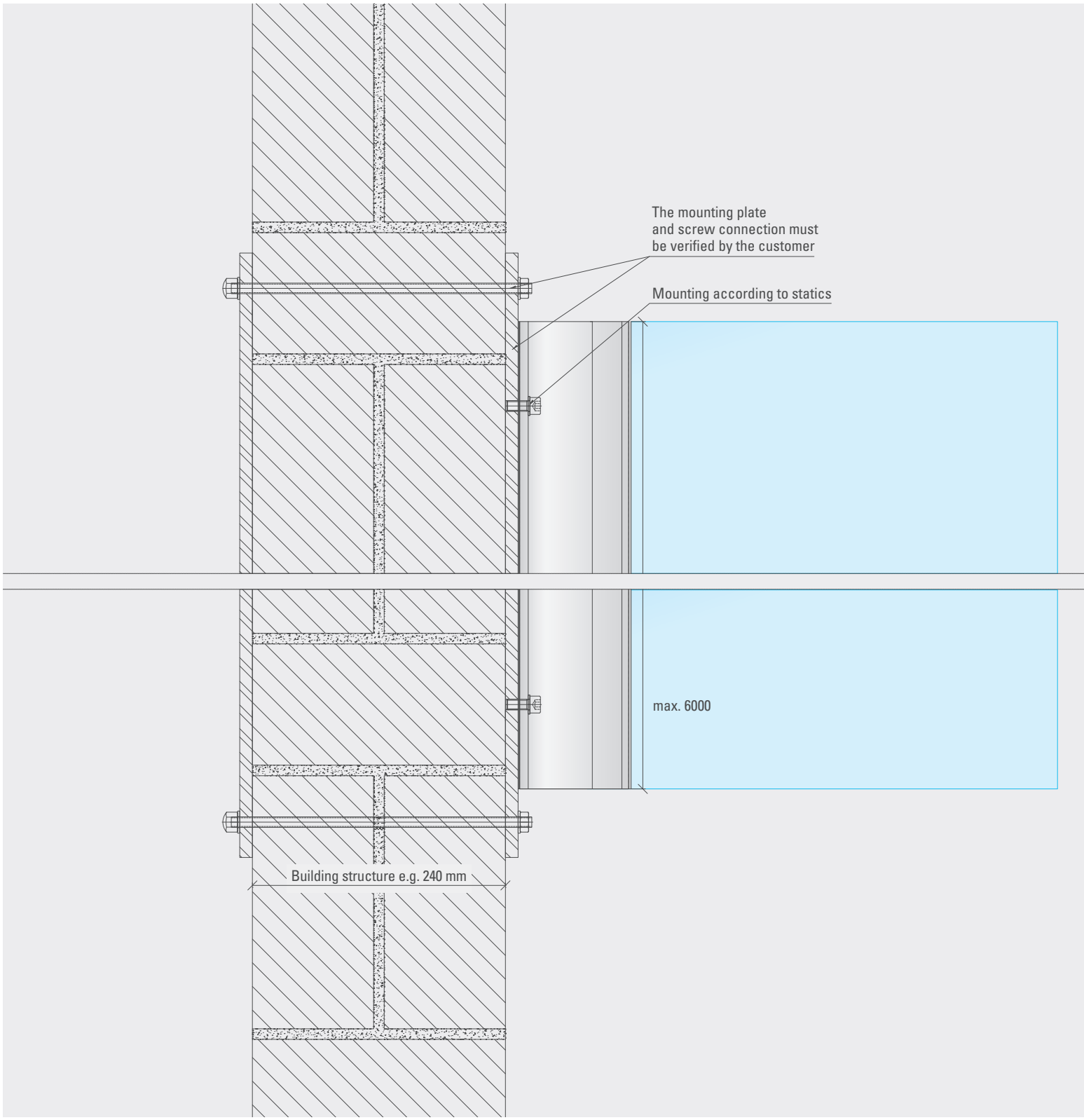
Vertical section



Drawing number: CC-P3-512

Proofs for load input and forwarding must be provided by the customer

Horizontal section

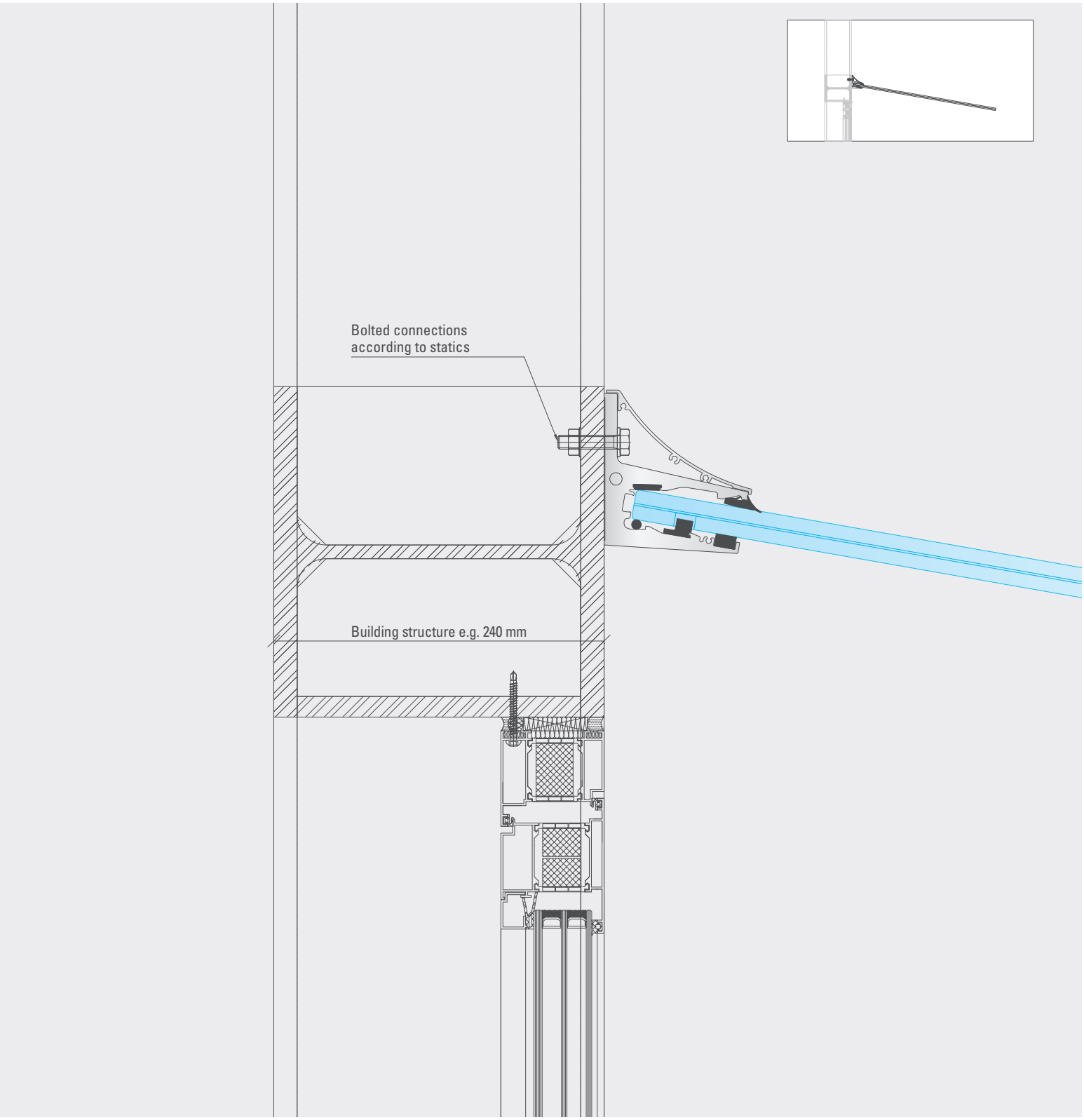


Drawing number: CC-P3-012
Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

steel beams

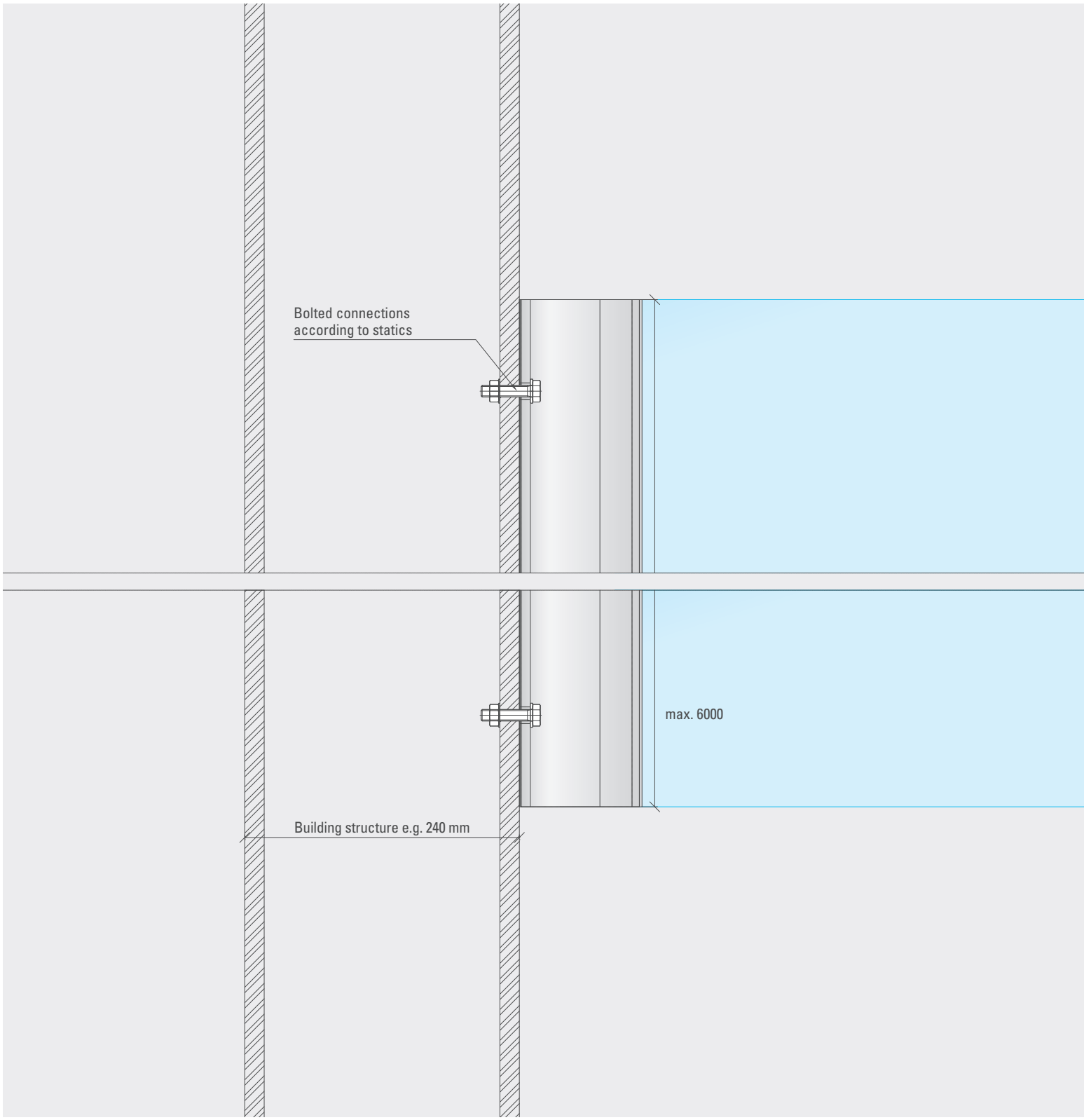
Vertical section



Drawing number: CC-P3-513

Proofs for load input and forwarding must be provided by the customer

Horizontal section

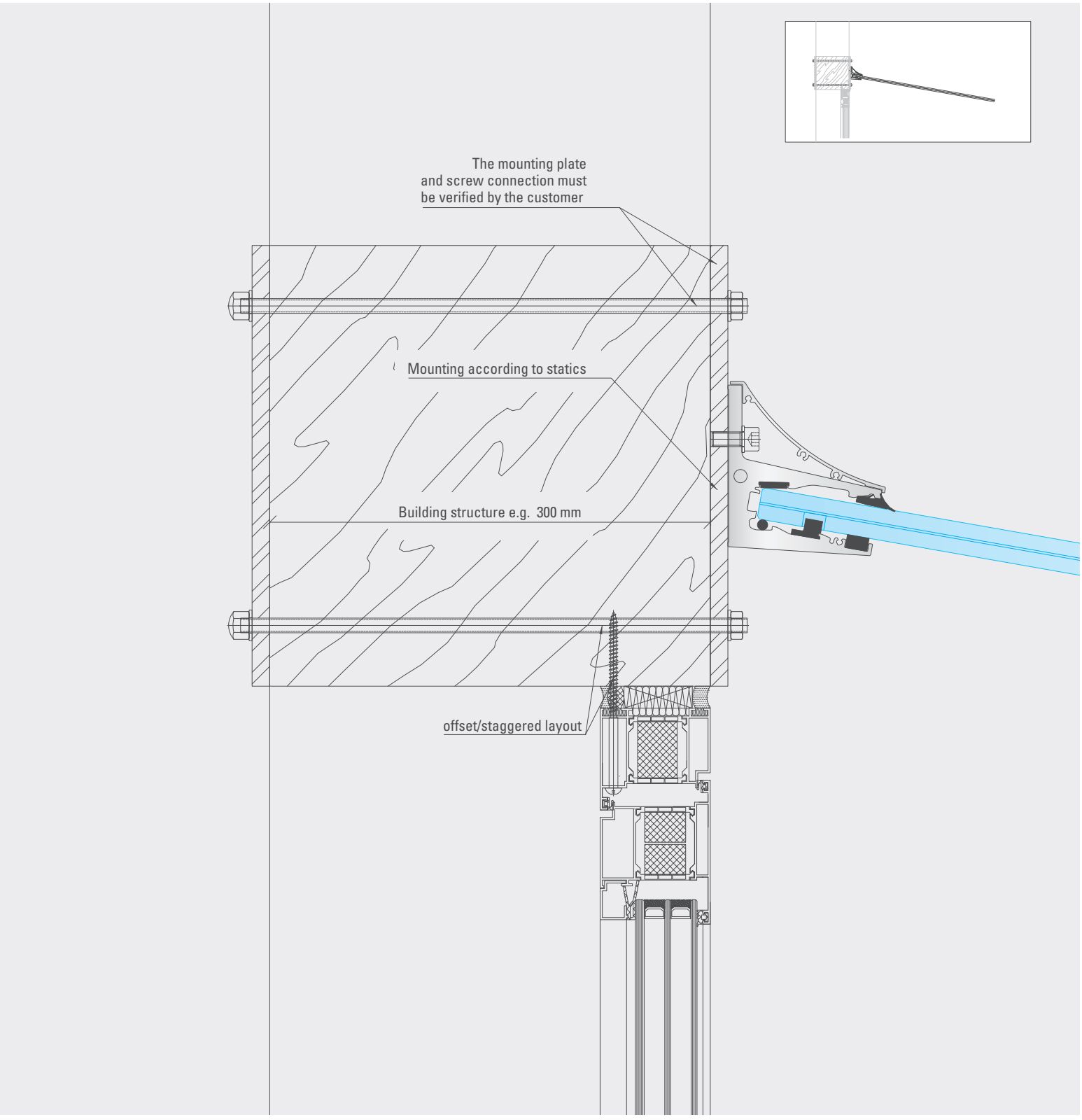


Drawing number: CC-P3-013
Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

wooden beams

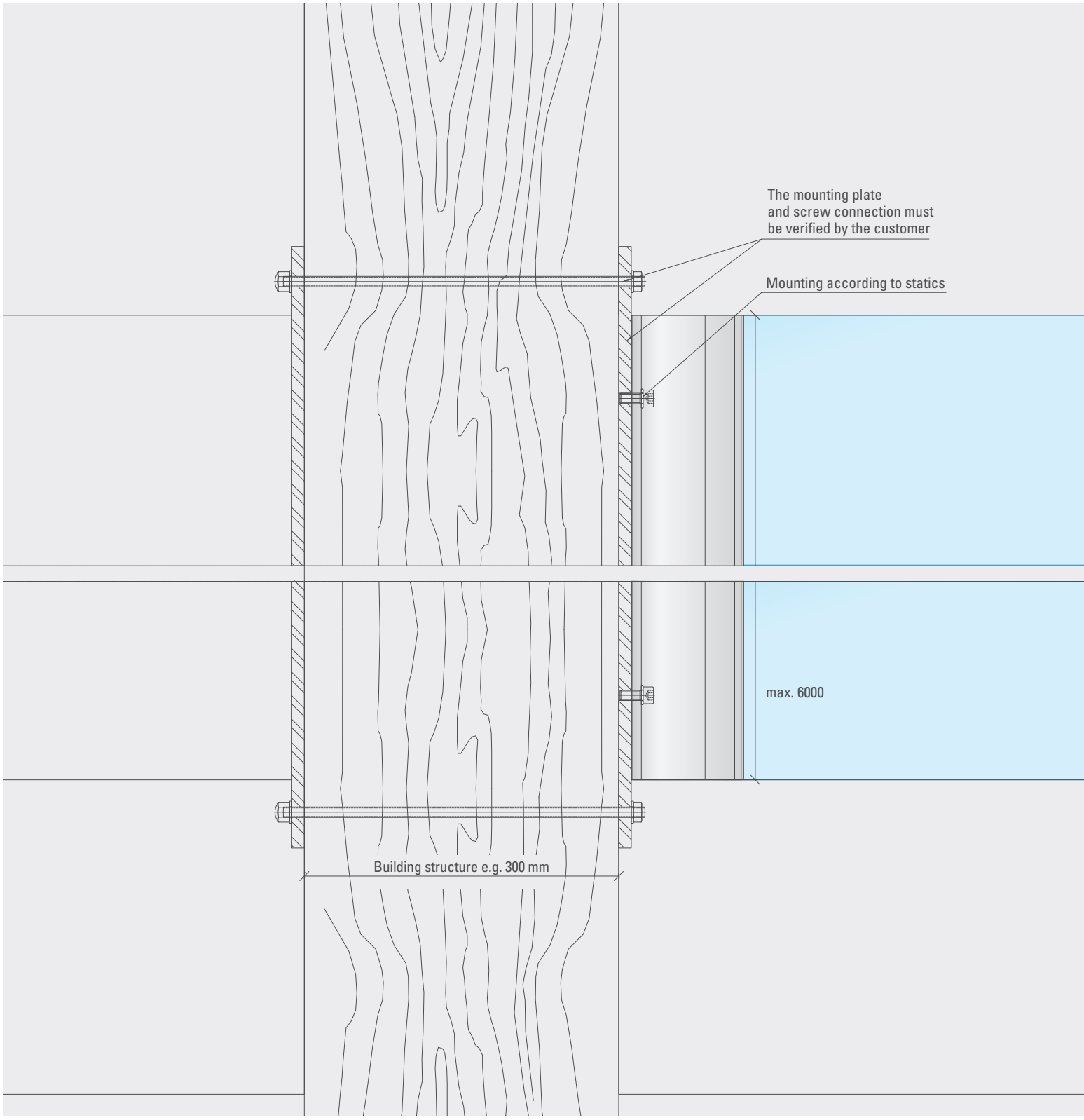
Vertical section



Drawing number: CC-P3-514

Proofs for load input and forwarding must be provided by the customer

Horizontal section



Drawing number: CC-P3-014
Proofs for load input and forwarding must be provided by the customer

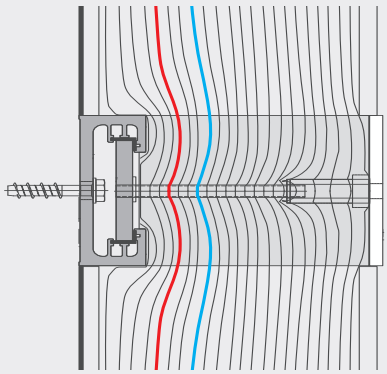
FIX▪N SLIDE

Safe attachment to thermally insulated façades

Flexible, easy to assemble and absolutely safe - the new FIX▪N SLIDE revolutionises construction component assembly in the ETICS (External Thermal Insulation System) area. FIX▪N SLIDE ensures secure attachment of add-on elements and simultaneously reduces thermal bridges in new buildings and retrofitting.

With only a few components and different insulating thicknesses, virtually any insulation thickness can be easily thermally and statically bridged. FIX▪N SLIDE as a rail for linear installation and as a system component for point-to-point attachment is suitable for every on-site situation.

The advantages



- reduction of heat bridges
- secure mounting of add-on elements

Thermal characteristics / Energy planning according to EnEV 2016

Thermal evidence shows that deploying FIX▪N SLIDE reduces thermal bridges to a minimum. The system is optimally suited for energy planning in new or existing buildings.

Safe load transfer

The tension, shearing and torque transfer allows the system to cover a wide range of applications.

Variable connection and mounting design

The variable arrangement of the fasteners allows the load transfer to be optimally adapted to the substructure and adapted and optimised to the local conditions.

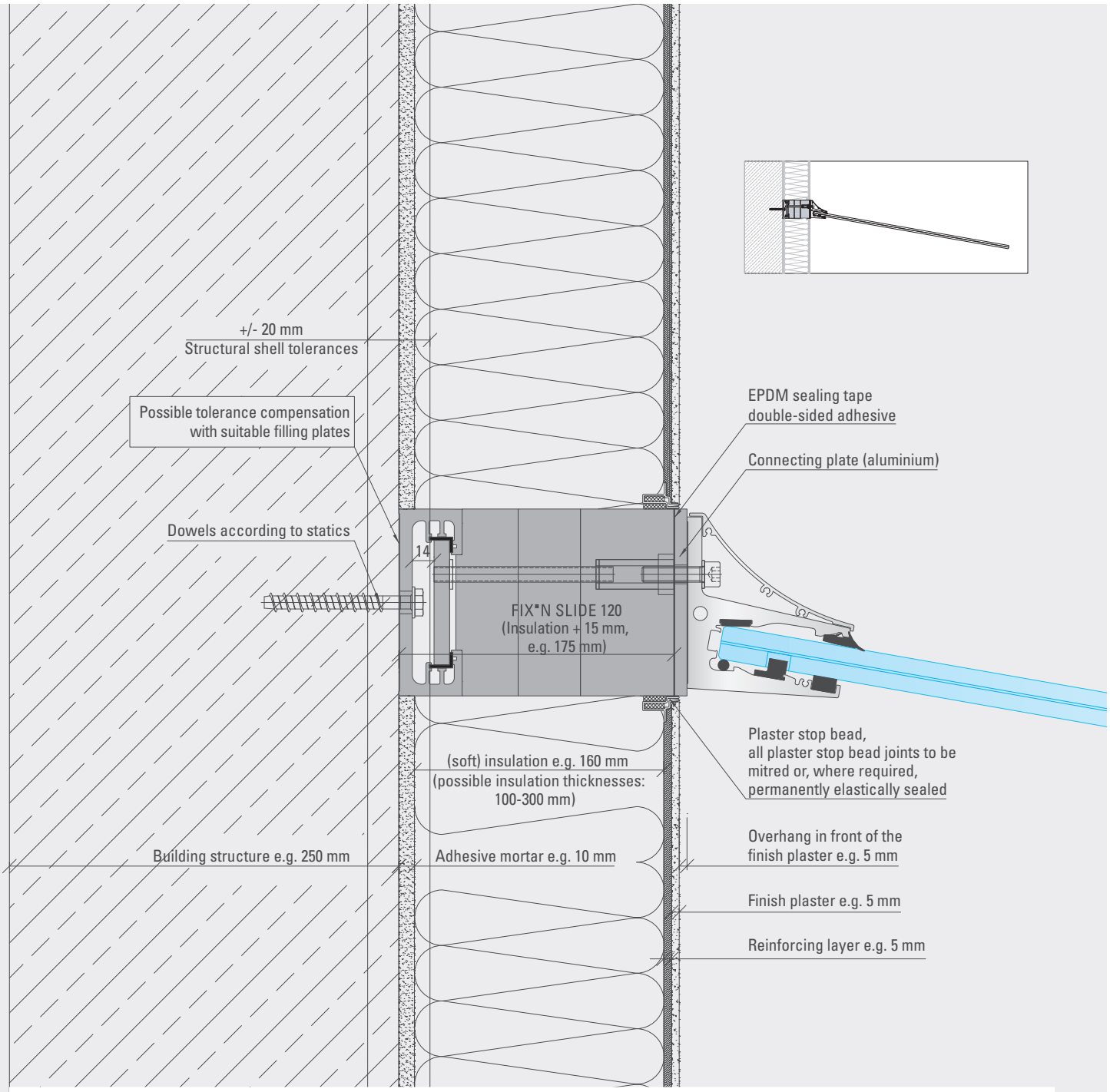
CANOPY *cloud* with FIX"N SLIDE

Application examples – without insulation

Glass canopy CANOPY *cloud*

Finish plaster and soft insulation

Vertical section



Installation recommendation

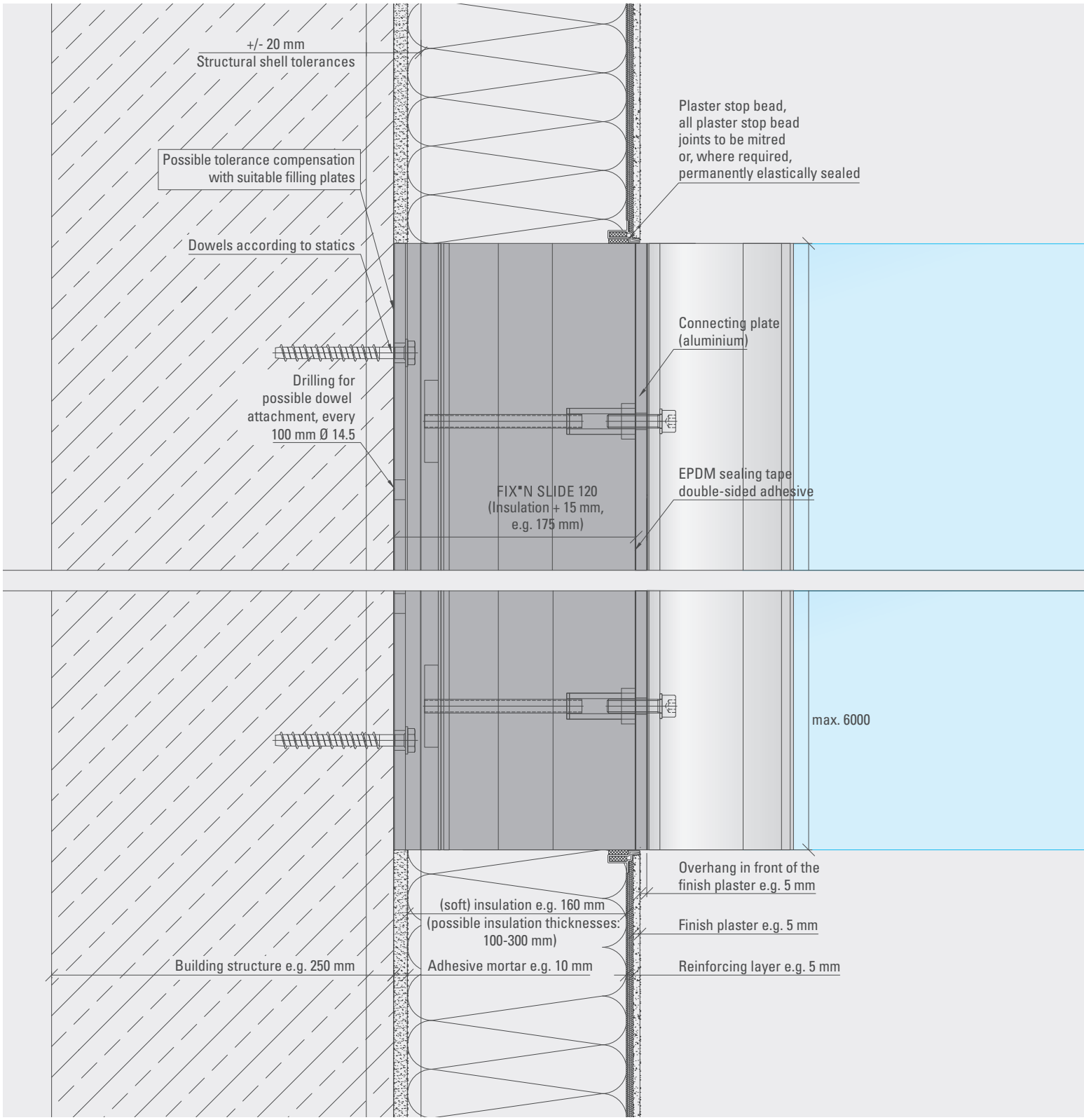
- String out building (determine insulation outer edge)
- Install FIX"N SLIDE
  (possible tolerance compensation with suitable filler plates/shims)
- Ensure exterior impermeability with double-sided adhesive EPDM sealing membrane
- Fix connection plate
- Create ETICS with finish plaster
- Installation of the canopy

Drawing number: CC-P3-501

Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX▪N SLIDE

Horizontal section



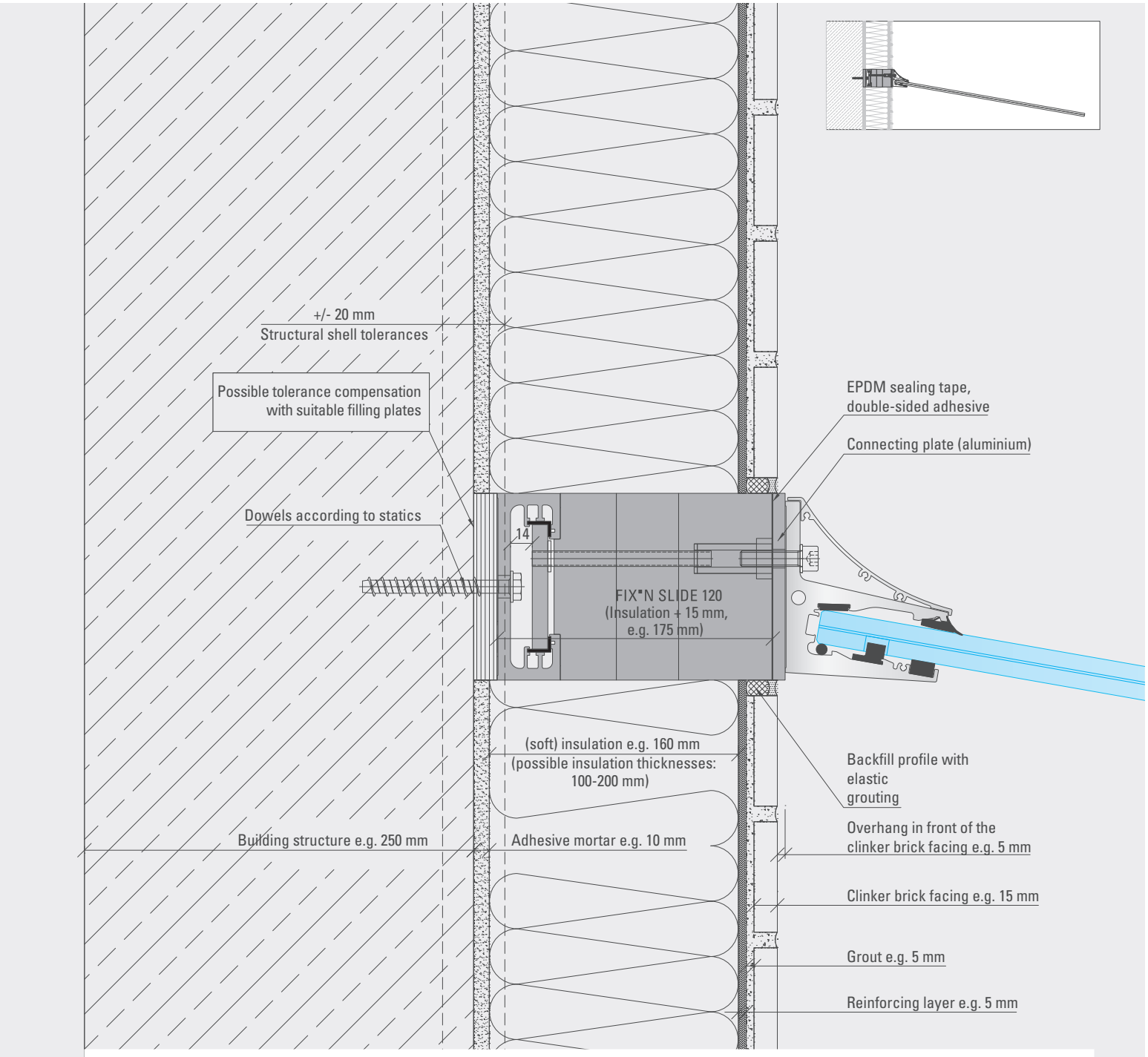
Drawing number: CC-P3-001

Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

clinker brick facing and soft insulation

Vertical section



Installation recommendation

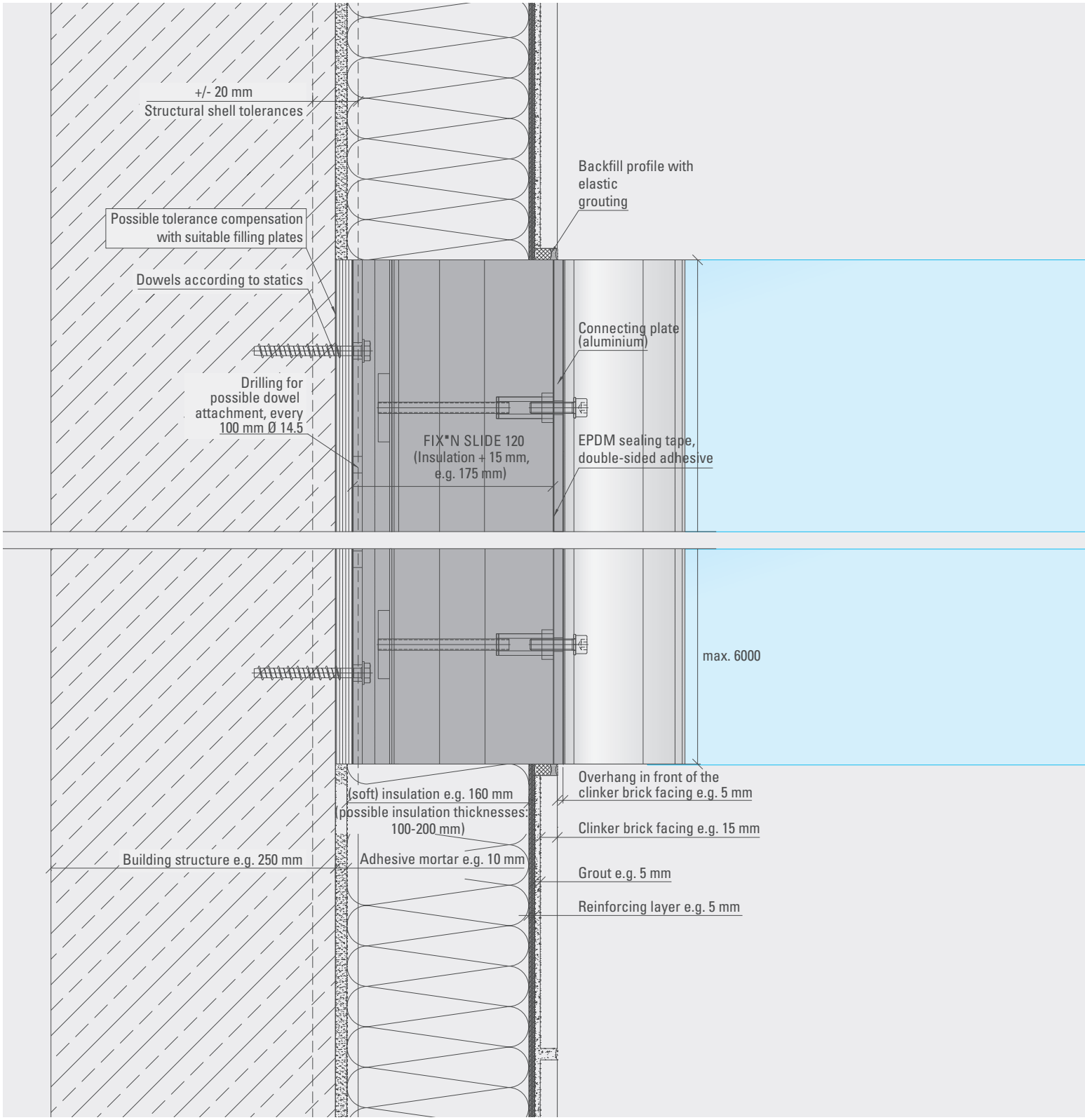
- String out building (determine insulation outer edge)
- Install FIX"N SLIDE
  (possible tolerance compensation with suitable filling plates/shims)
- Ensure exterior impermeability with double-sided adhesive EPDM sealing tape
- Fix connecting plate
- Create ETICS with clinker brick facing
- Install the canopy

Drawing number: CC-P3-502

Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX▪N SLIDE

Horizontal section



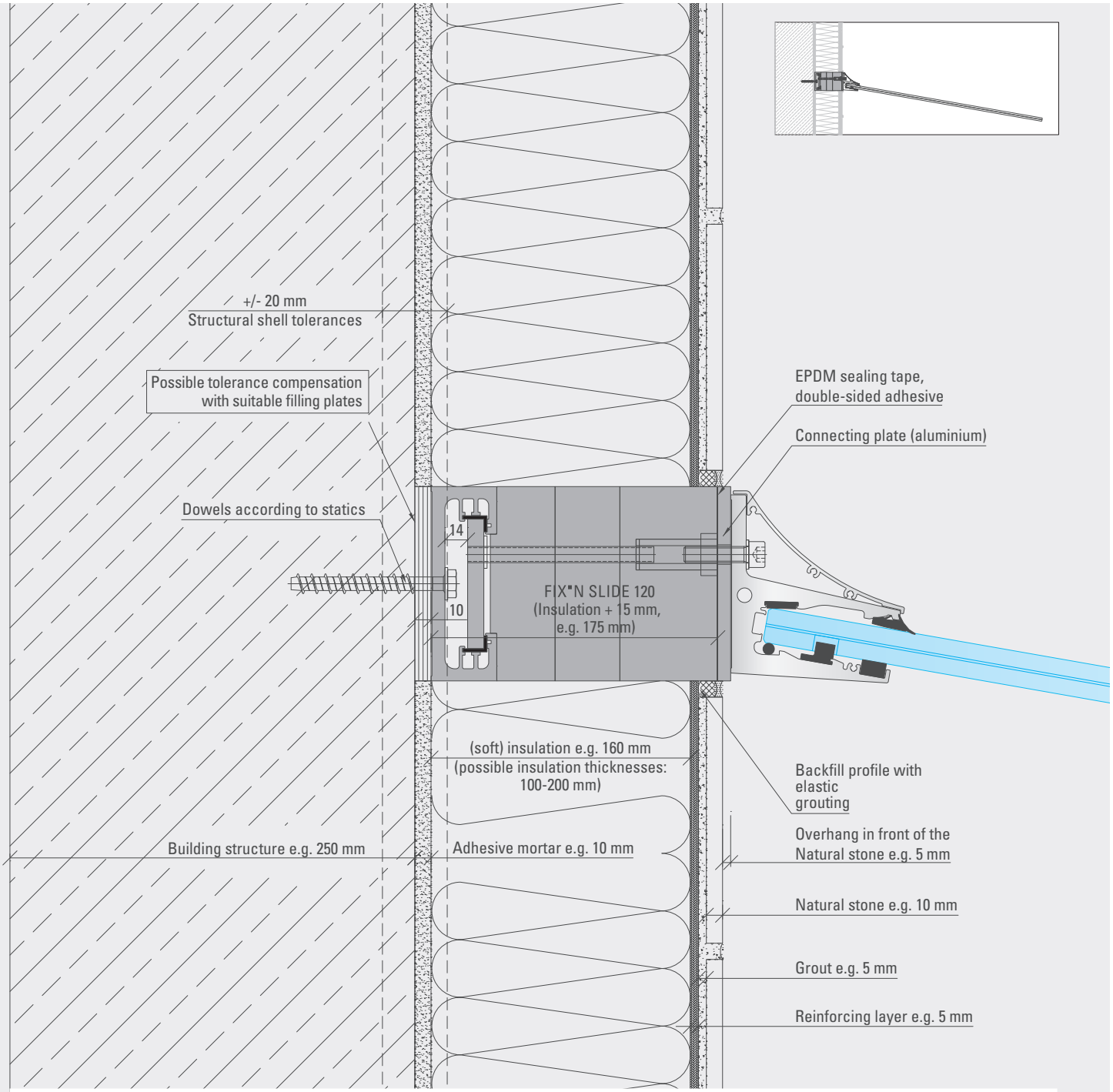
Drawing number: CC-P3-002

Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

natural stone and soft insulation

Vertical section



Installation recommendation

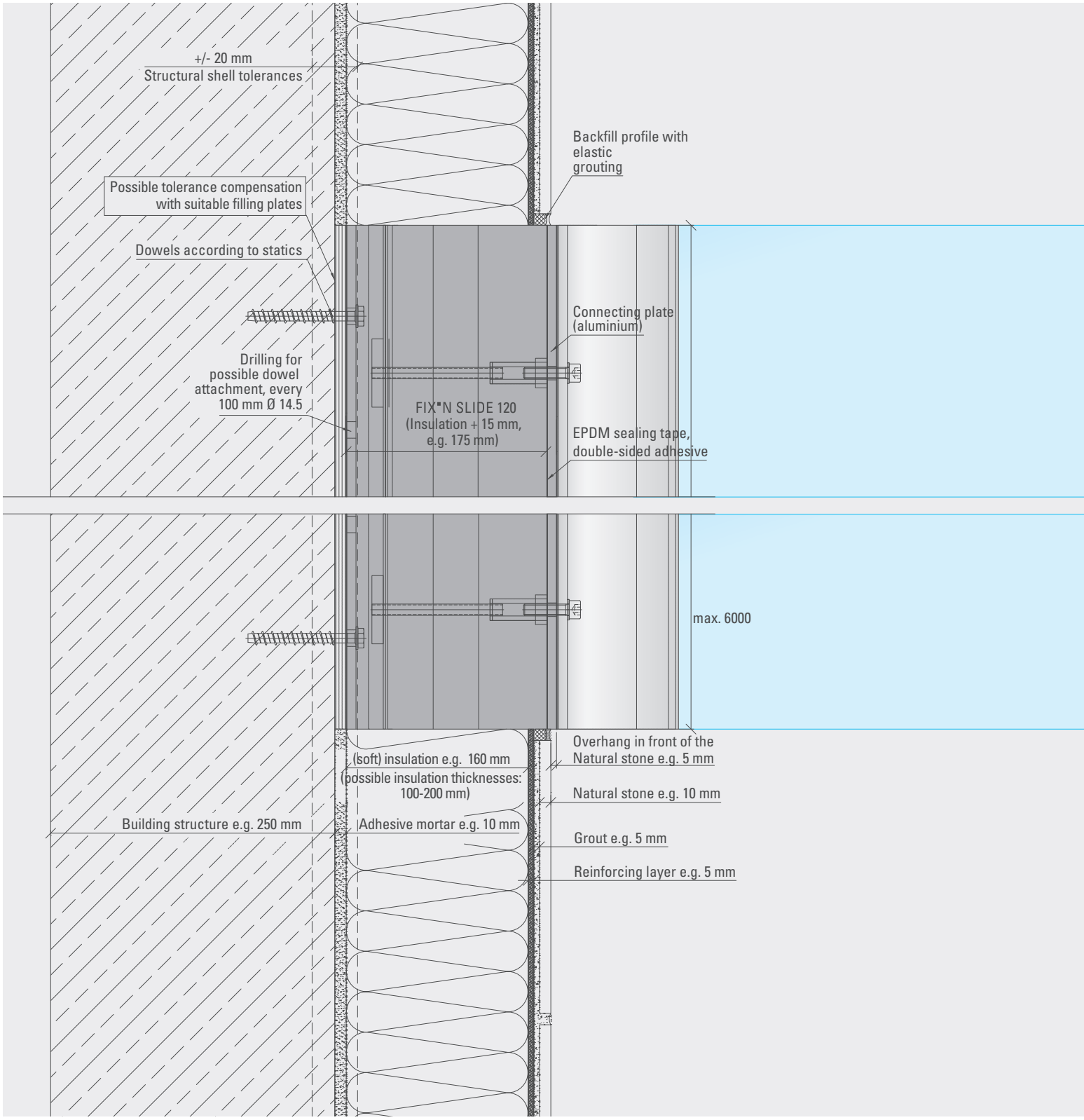
- String out building (determine insulation outer edge)
- Install FIX"N SLIDE
  (possible tolerance compensation with suitable filling plates/shims)
- Ensure exterior impermeability with double-sided adhesive EPDM sealing tape
- Fix connecting plate
- Create ETICS with natural stone
- Install the canopy

Drawing number: CC-P3-503

Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX▪N SLIDE

Horizontal section



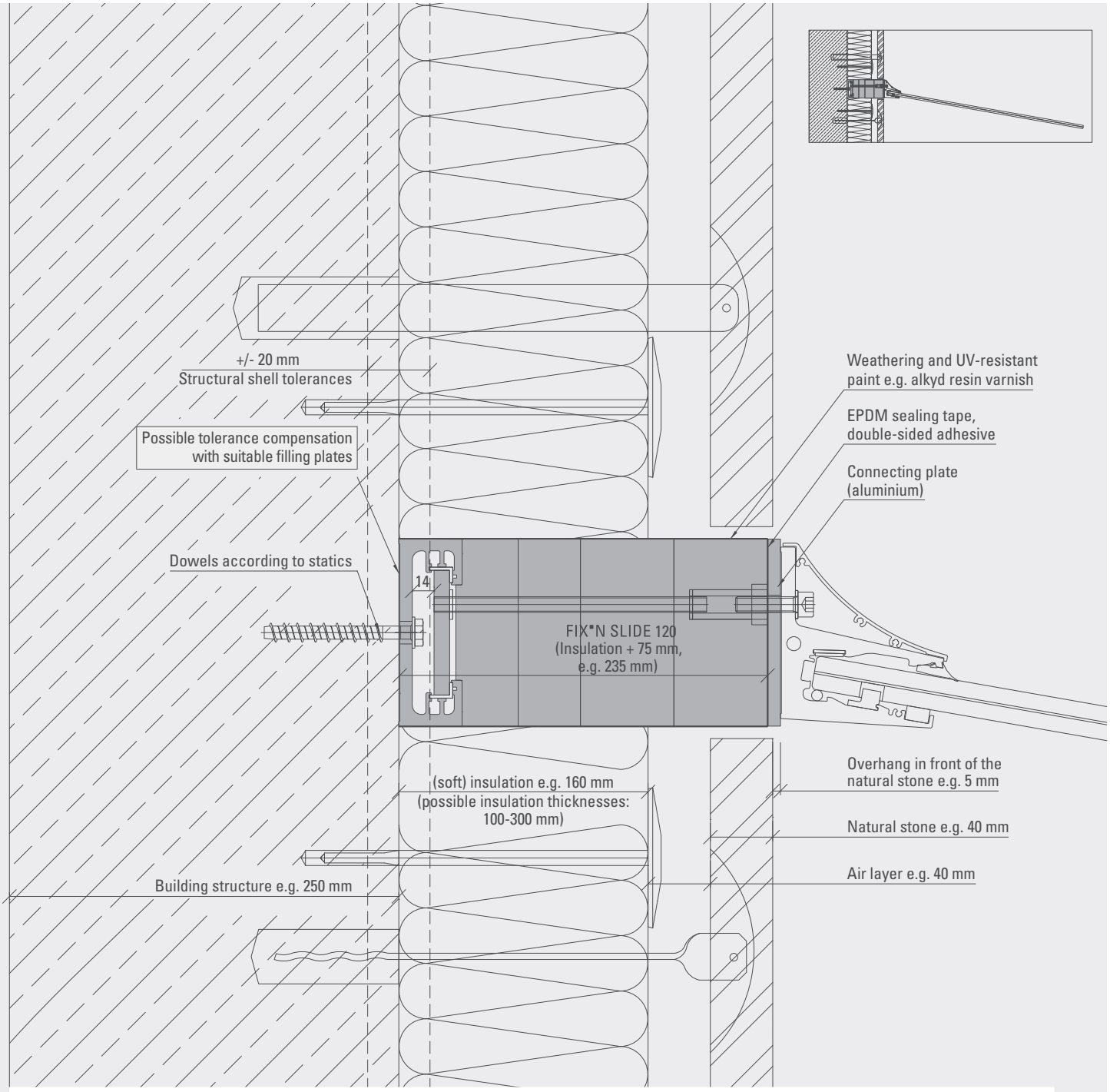
Drawing number: CC-P3-003

Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

natural stone and soft insulation

Vertical section



Installation recommendation

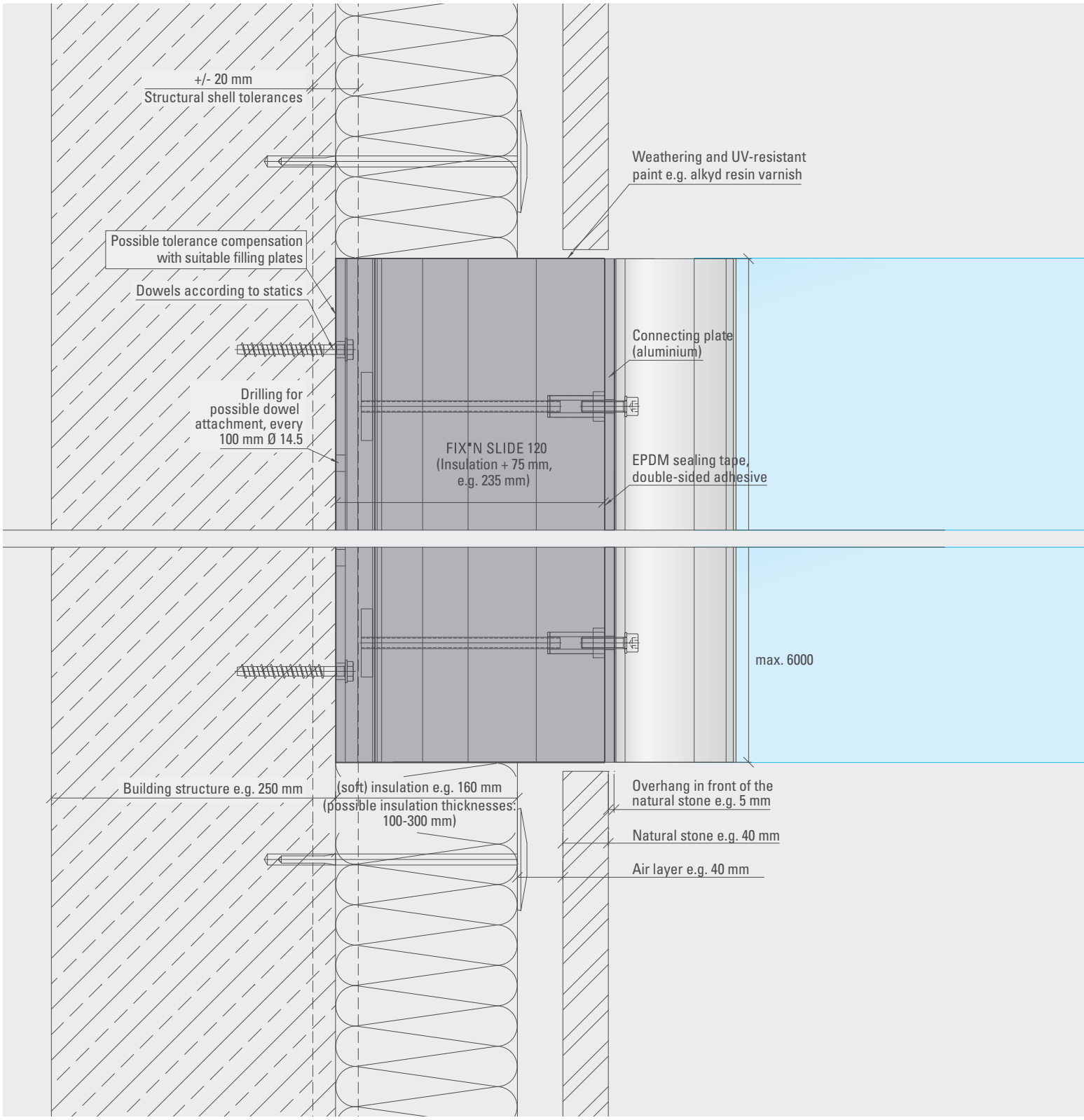
- String out building (determine outer edge of natural stone)
- Install FIX"N SLIDE
  (possible tolerance compensation with suitable filling plates/shims)
- Ensure exterior impermeability with double-sided adhesive EPDM sealing tape
- Apply weathering and UV resistant paint e.g. alkyd resin paint
- Install natural stone
- Install the canopy

Drawing number: CC-P3-504 | **Attention:** Building element only partially visible in the drawing.

Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX▪N SLIDE

Horizontal section



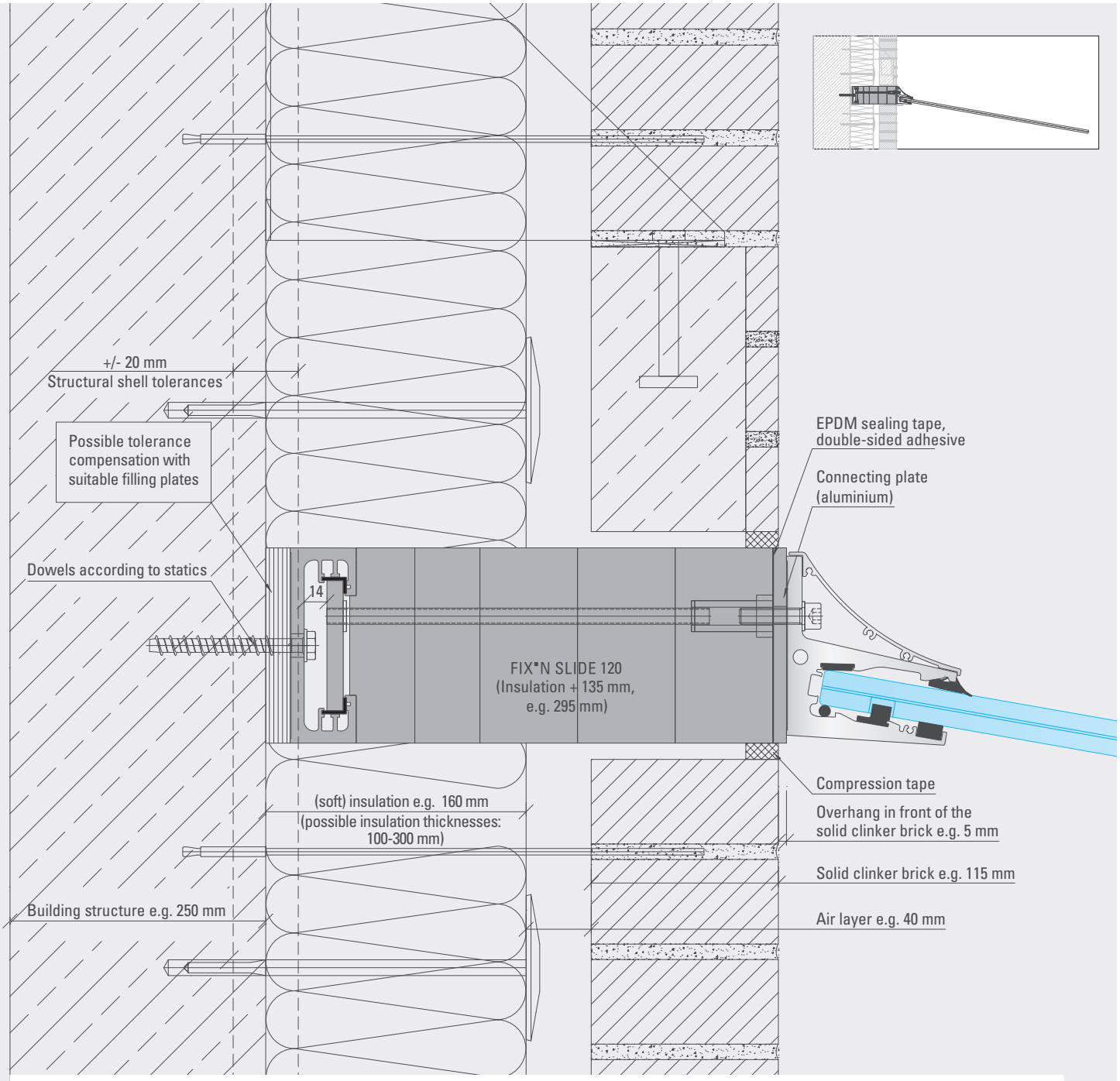
Drawing number: CC-P3-004

Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

solid clinker brick and soft insulation (160 mm)

Vertical section



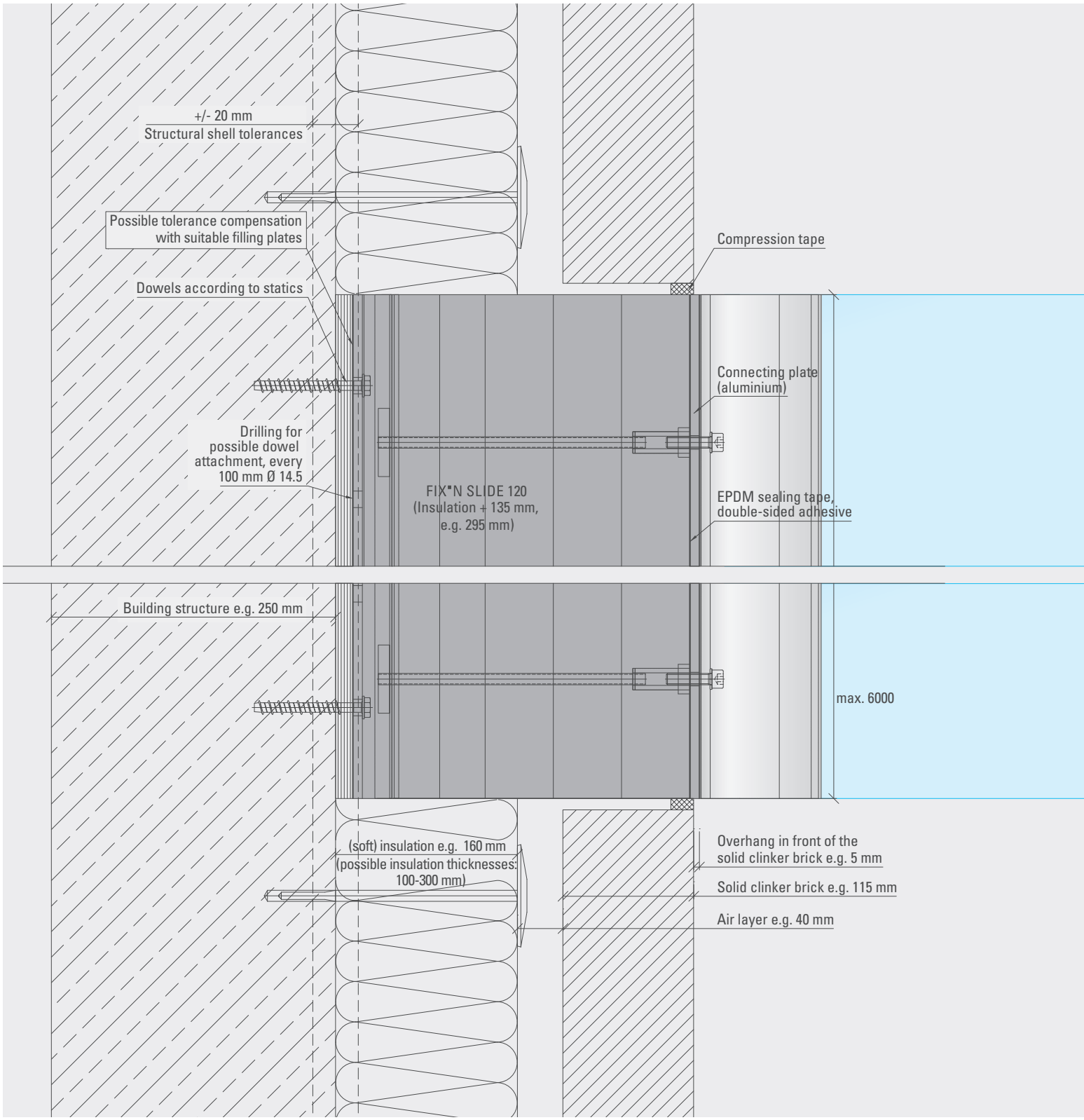
Installation recommendation

- String out building (determine outer edge of solid clinker brick)
- Install FIX"N SLIDE (possible tolerance compensation with suitable filling plates/shims)
- Ensure exterior impermeability with double-sided adhesive EPDM sealing tape
- Fix connecting plate
- Install solid clinker brick
- Install the canopy
- Install foam (compressed/impregnated) sealing tape

Drawing number: CC-P3-505 | **Attention:** Building element only partially visible in the drawing:
Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX"N SLIDE

Horizontal section

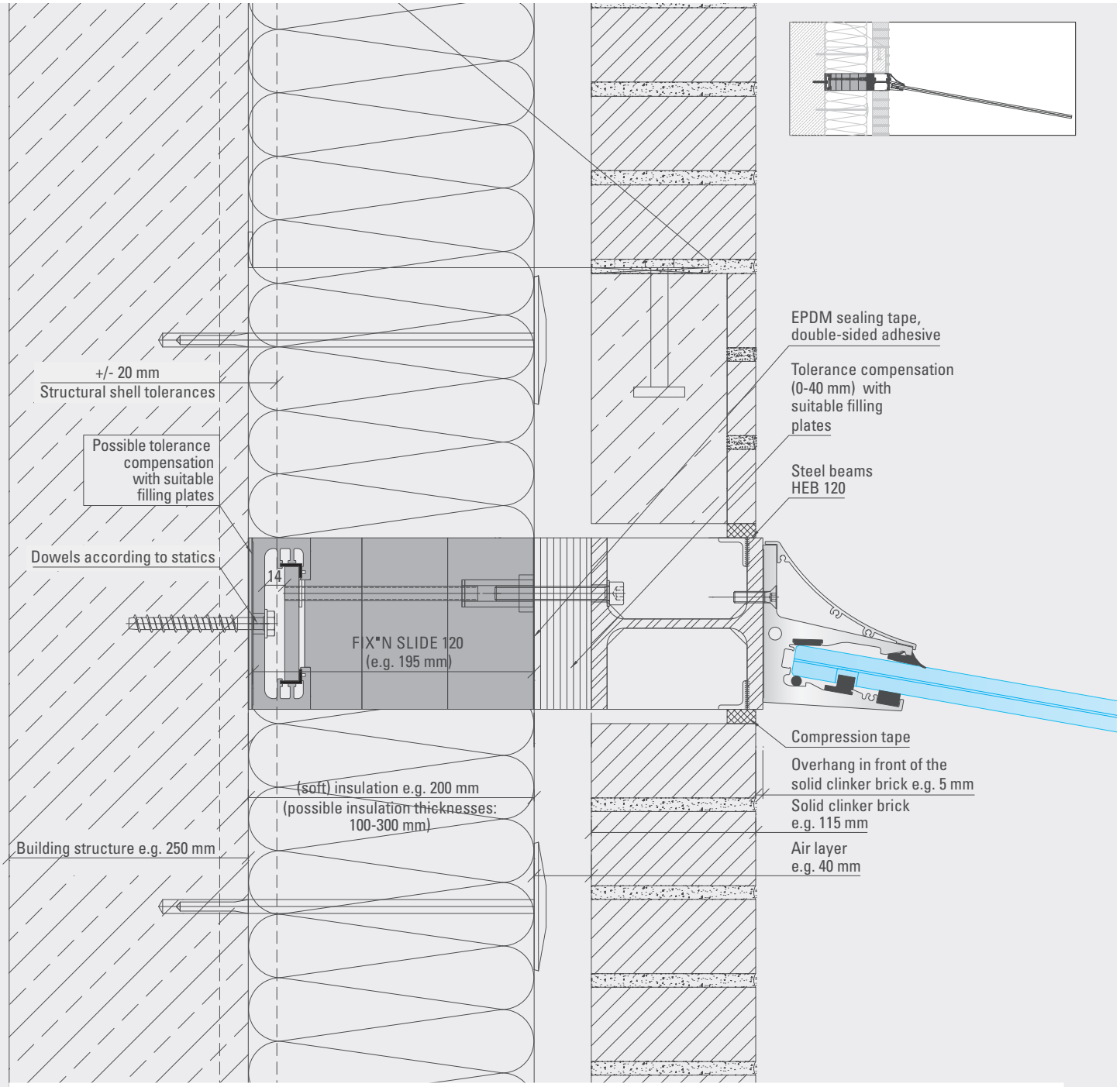


Drawing number: CC-P3-005 | **Attention:** Building element only partially visible in the drawing:
Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

solid clinker brick and soft insulation (200 mm)

Vertical section



Installation recommendation

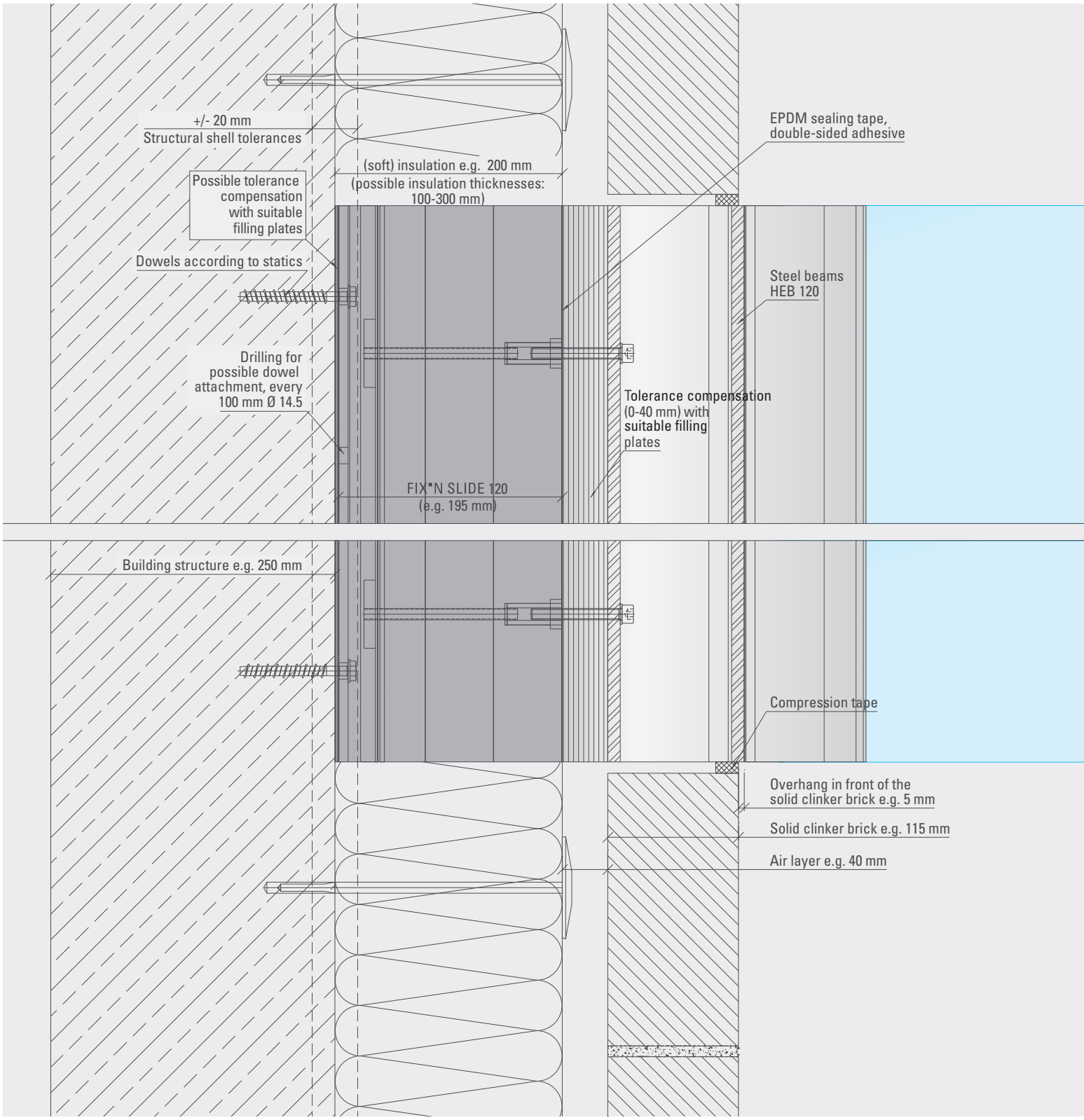
- String out building (determine outer edge of solid clinker brick)
- Install FIX"N SLIDE (possible tolerance compensation with suitable filling plates/shims)
- Ensure exterior impermeability with double-sided adhesive EPDM sealing tape
- Install further filling plates/shims
- Fix steel beam
- Install solid clinker brick
- Install the canopy
- Install foam (compressed/impregnated) sealing tape

Drawing number: CC-P3-506

Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX▪N SLIDE

Horizontal section

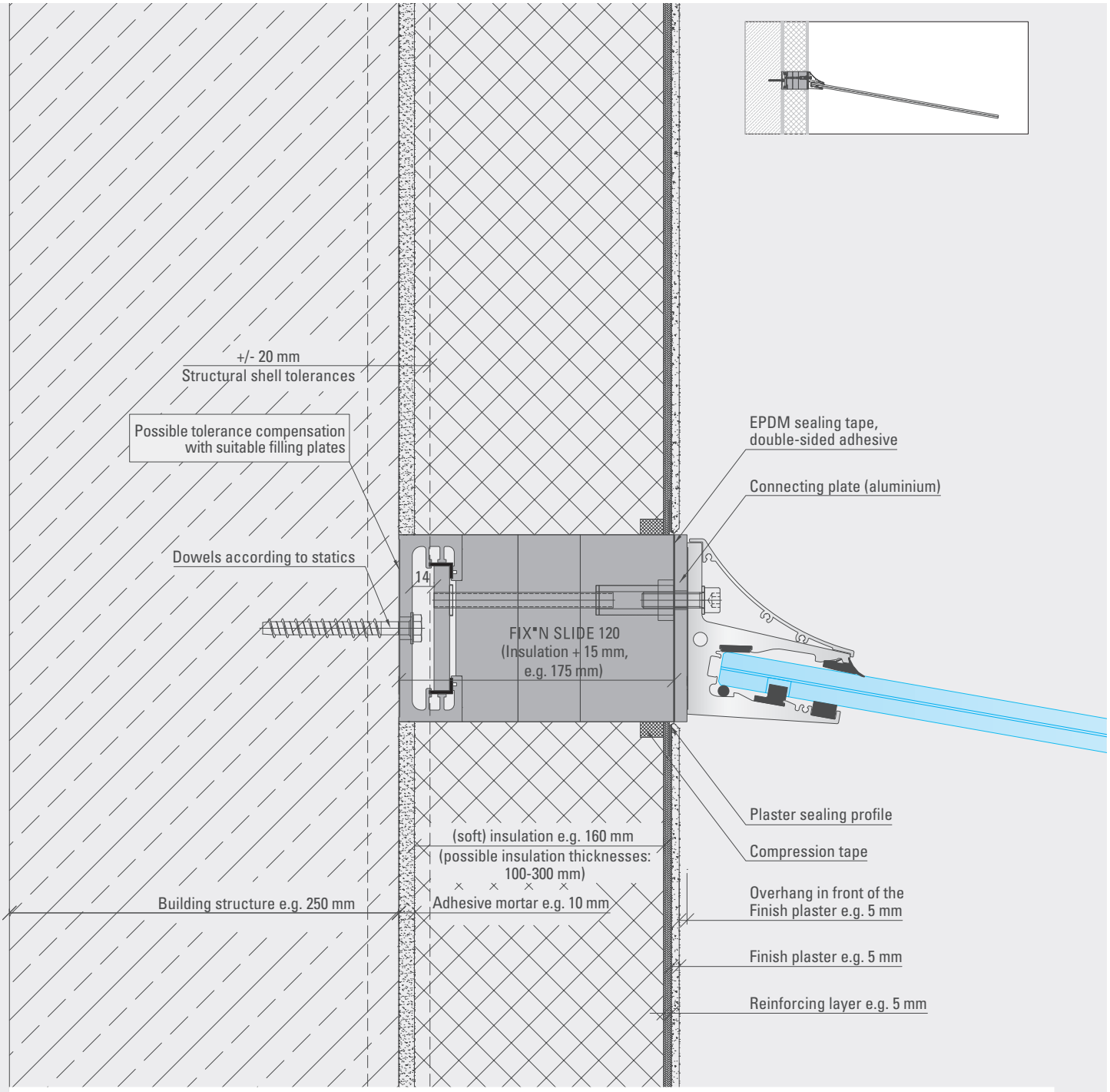


Drawing number: CC-P3-006 | **Attention:** Building element only partially visible in the drawing.
Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

finish plaster and hard insulation

Vertical section



Installation recommendation

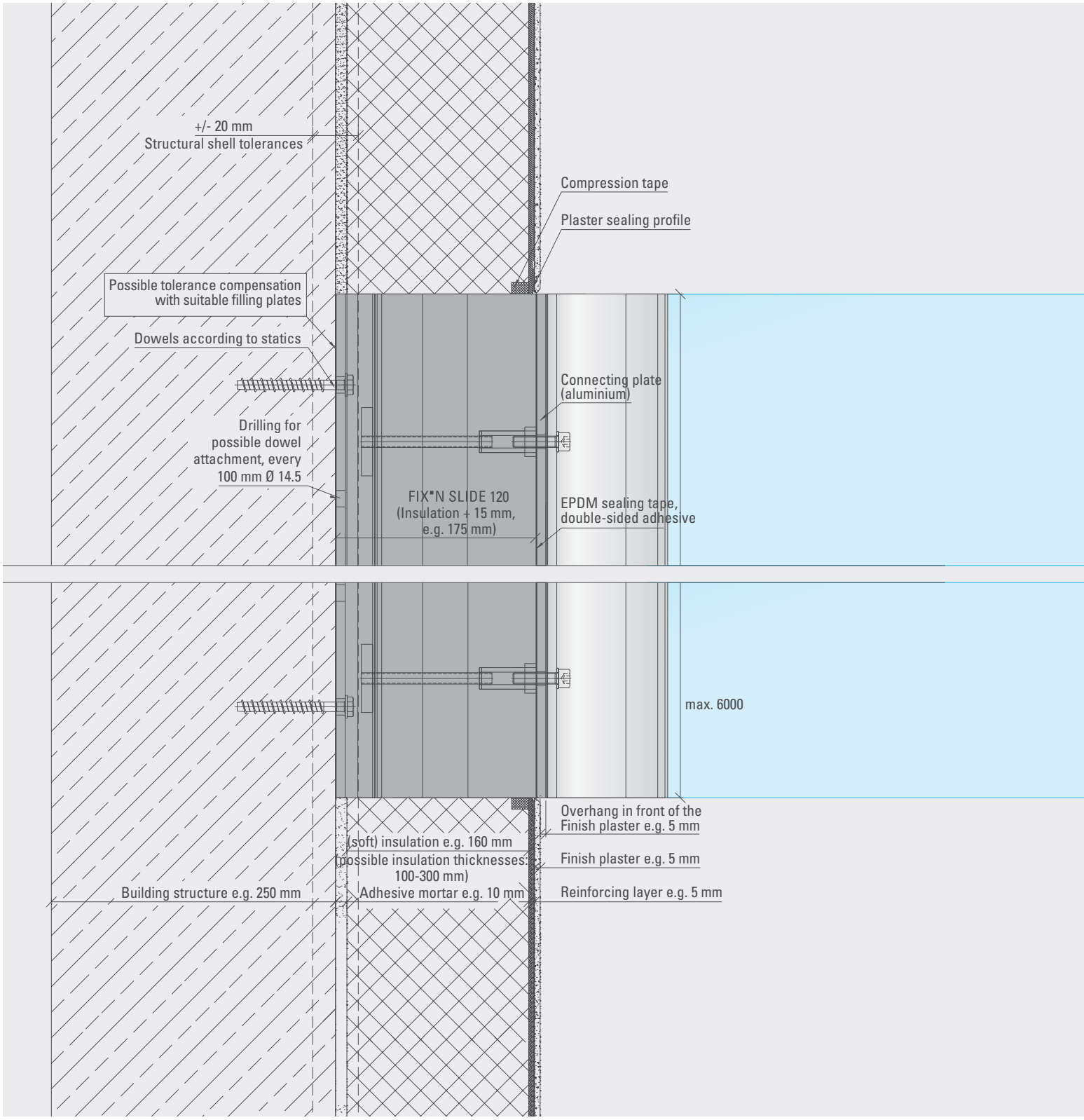
- String out building (determine insulation outer edge)
- Install FIX"N SLIDE
  (possible tolerance compensation with suitable filling plates/shims)
- Fix connecting plate
- Ensure exterior impermeability
  durch double-sided adhesive EPDM sealing tape
- Create ETICS with finish plaster
- Install the canopy

Drawing number: CC-P3-508

Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX▪N SLIDE

Horizontal section



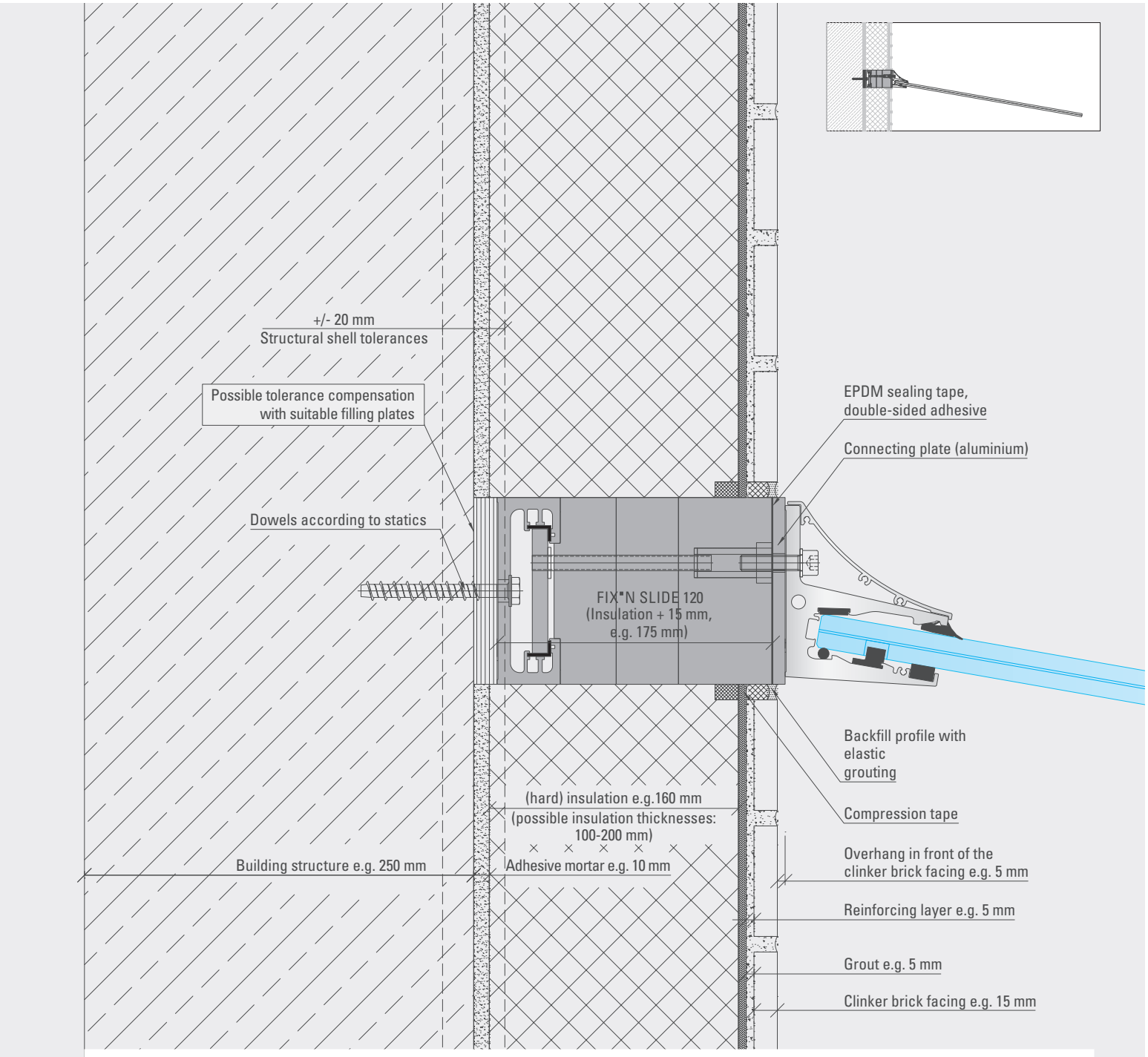
Drawing number: CC-P3-008

Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

clinker brick facing and hard insulation

Vertical section



Installation recommendation

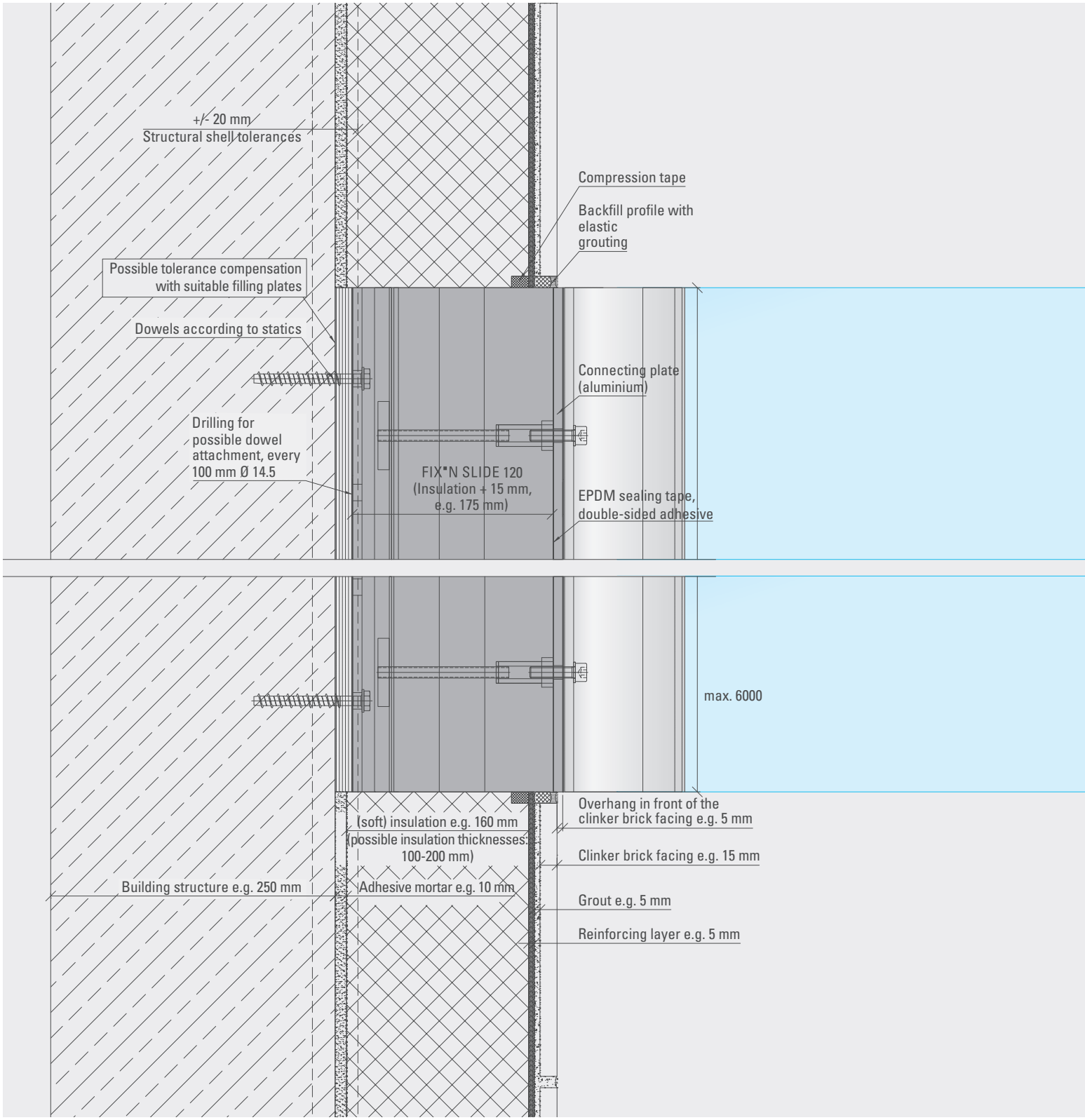
- String out building (determine insulation outer edge)
- Install FIX"N SLIDE
  (possible tolerance compensation with suitable filling plates/shims)
- Fix connecting plate
- Ensure exterior impermeability
  durch double-sided adhesive EPDM sealing tape
- Create ETICS with clinker brick facing
- Install the canopy

Drawing number: CC-P3-509

Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX"N SLIDE

Horizontal section



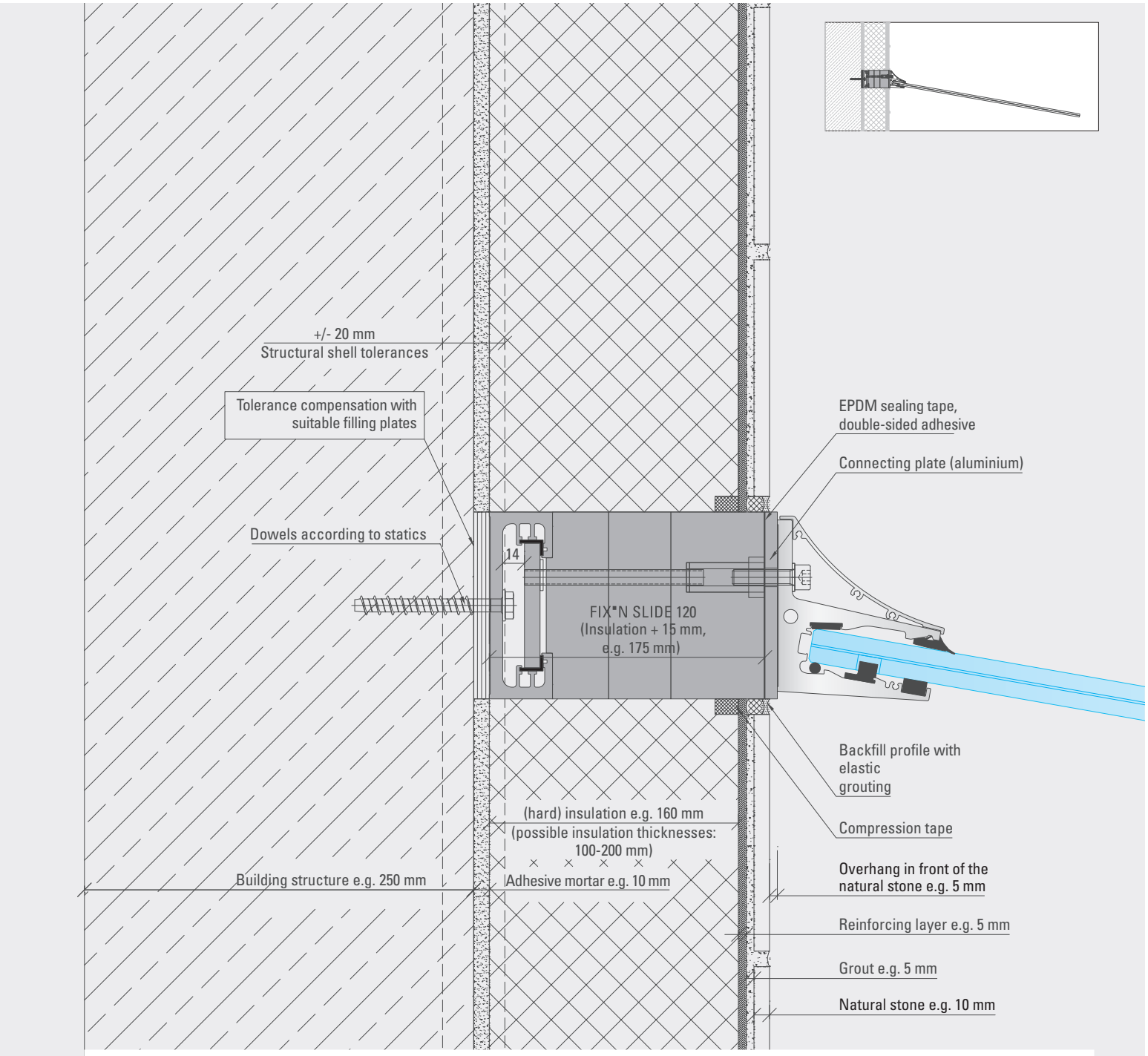
Drawing number: CC-P3-009

Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

natural stone and hard insulation

Vertical section



Installation recommendation

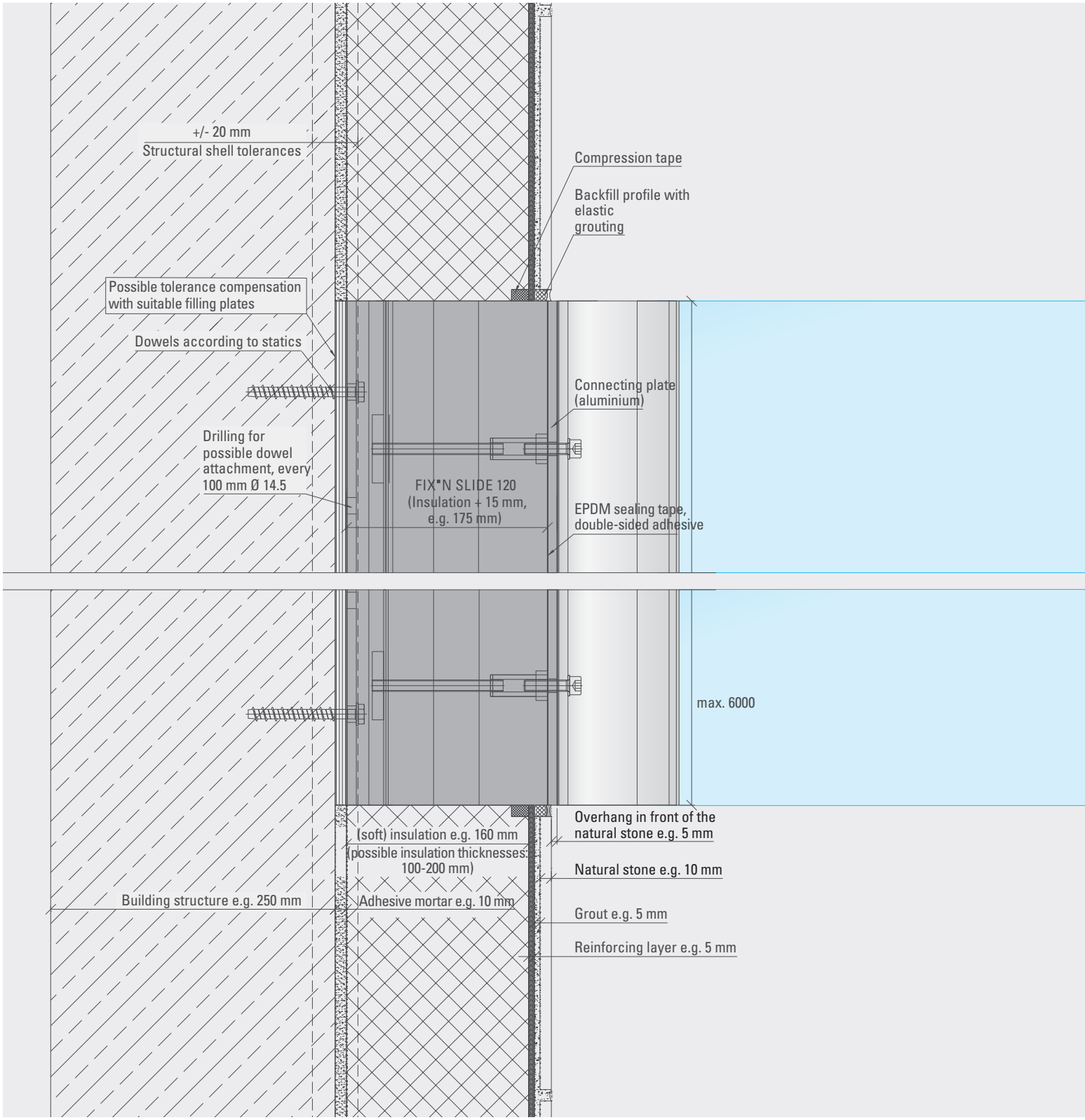
- String out building (determine insulation outer edge)
- Install FIX"N SLIDE
  (possible tolerance compensation with suitable filling plates/shims)
- Fix connecting plate
- Ensure exterior impermeability
  durch double-sided adhesive EPDM sealing tape
- Create ETICS with natural stone
- Install the canopy

Drawing number: CC-P3-510

Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX"N SLIDE

Horizontal section



Drawing number: CC-P3-010

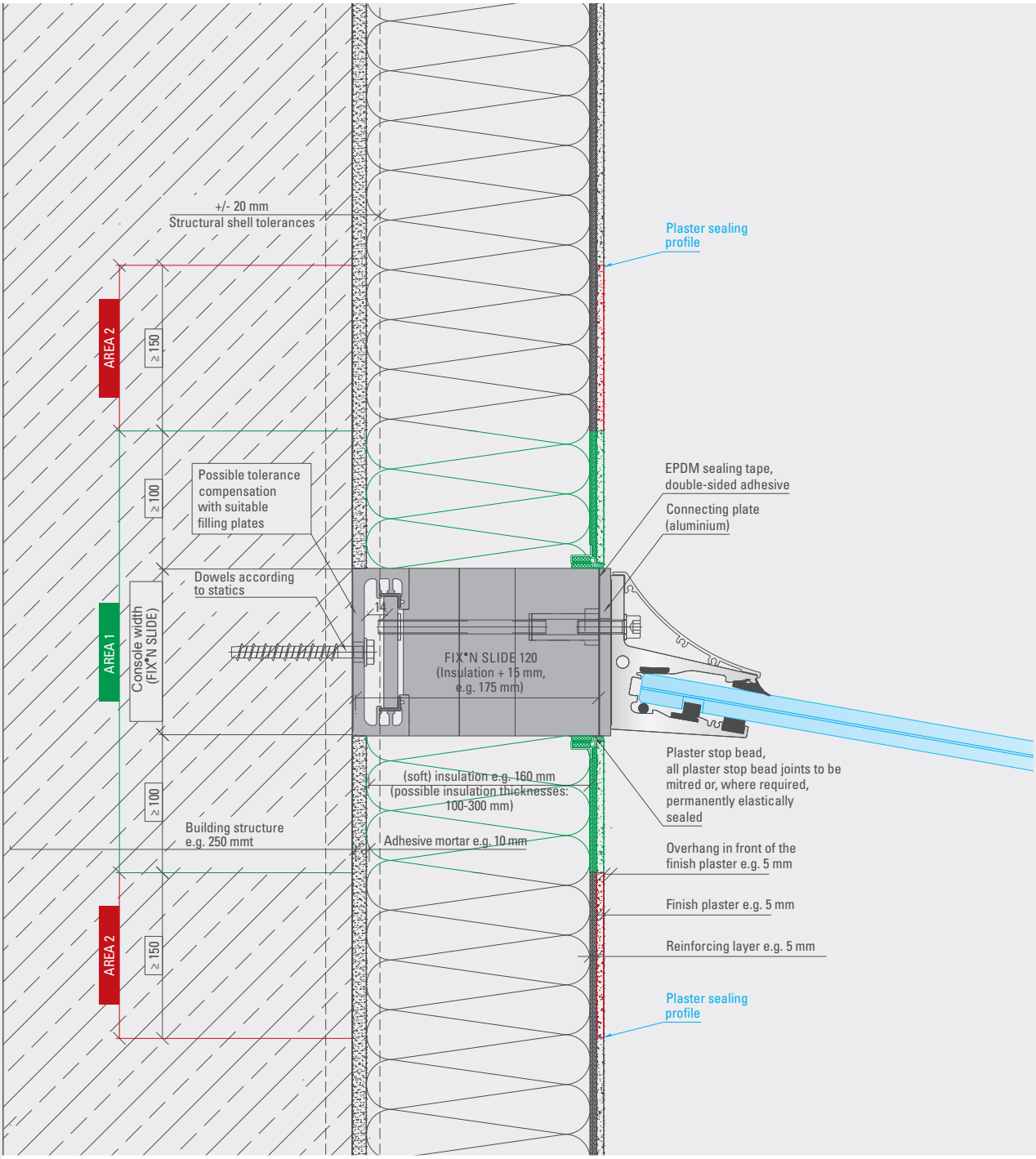
Proofs for load input and forwarding must be provided by the customer

Application examples existing building

Glass canopy CANOPY *cloud*

finish plaster and soft insulation

Vertical section



Installation recommendation

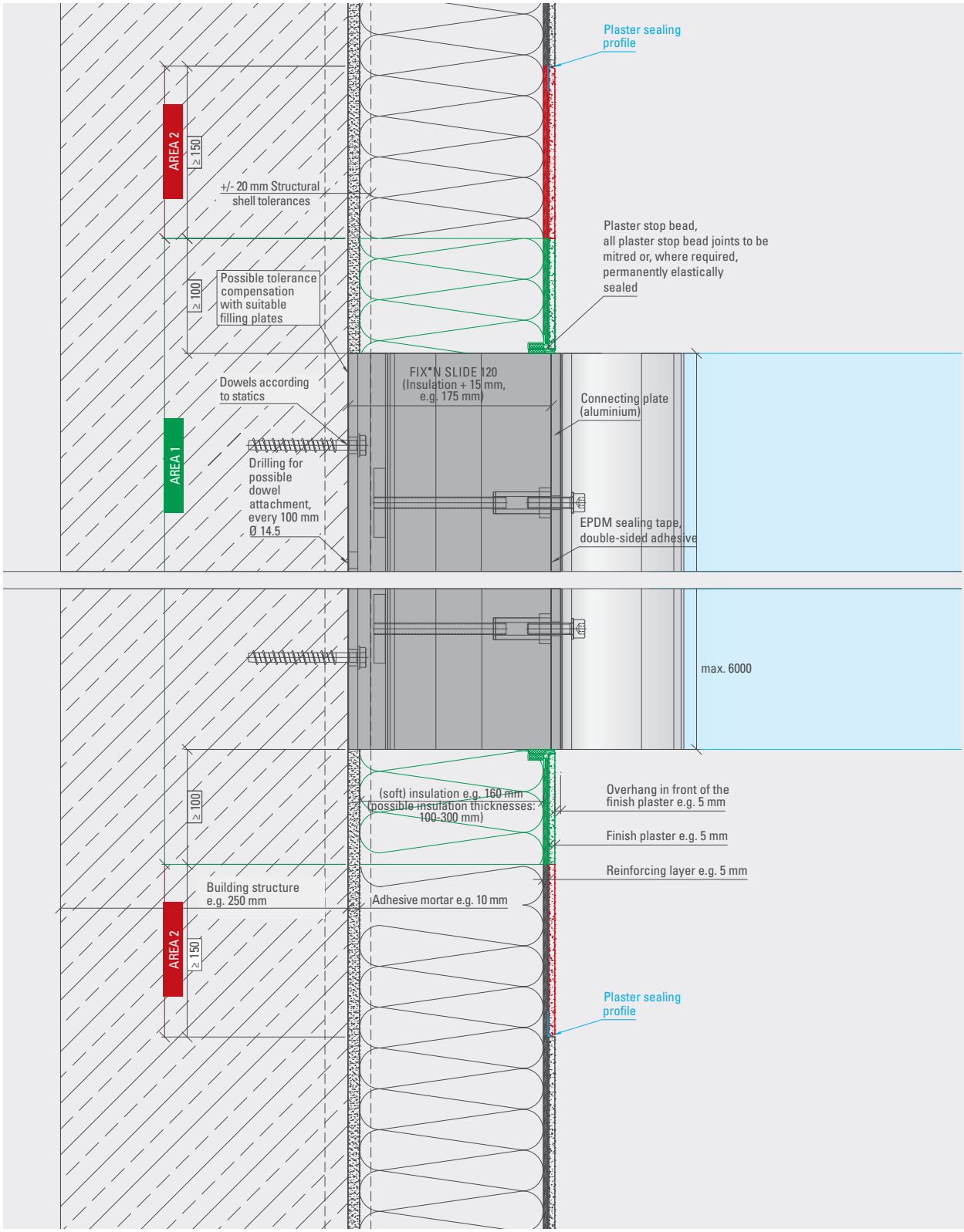
- Cut ETICS back: AREA 1 (console width FIX"N SLIDE + 200 mm)
- Mill off finish plaster to reinforcing layer: AREA 2
- Install FIX"N SLIDE
- Execute insulation and reinforcing layer (reinforcing layer must overlap existing reinforcing layer by approx. 150 mm).
- It is recommended to plaster the finish plaster with the plaster sealing profile
- Restore ETICS with finish plaster

Drawing number: CC-P3-515

Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX▪N SLIDE

Horizontal section



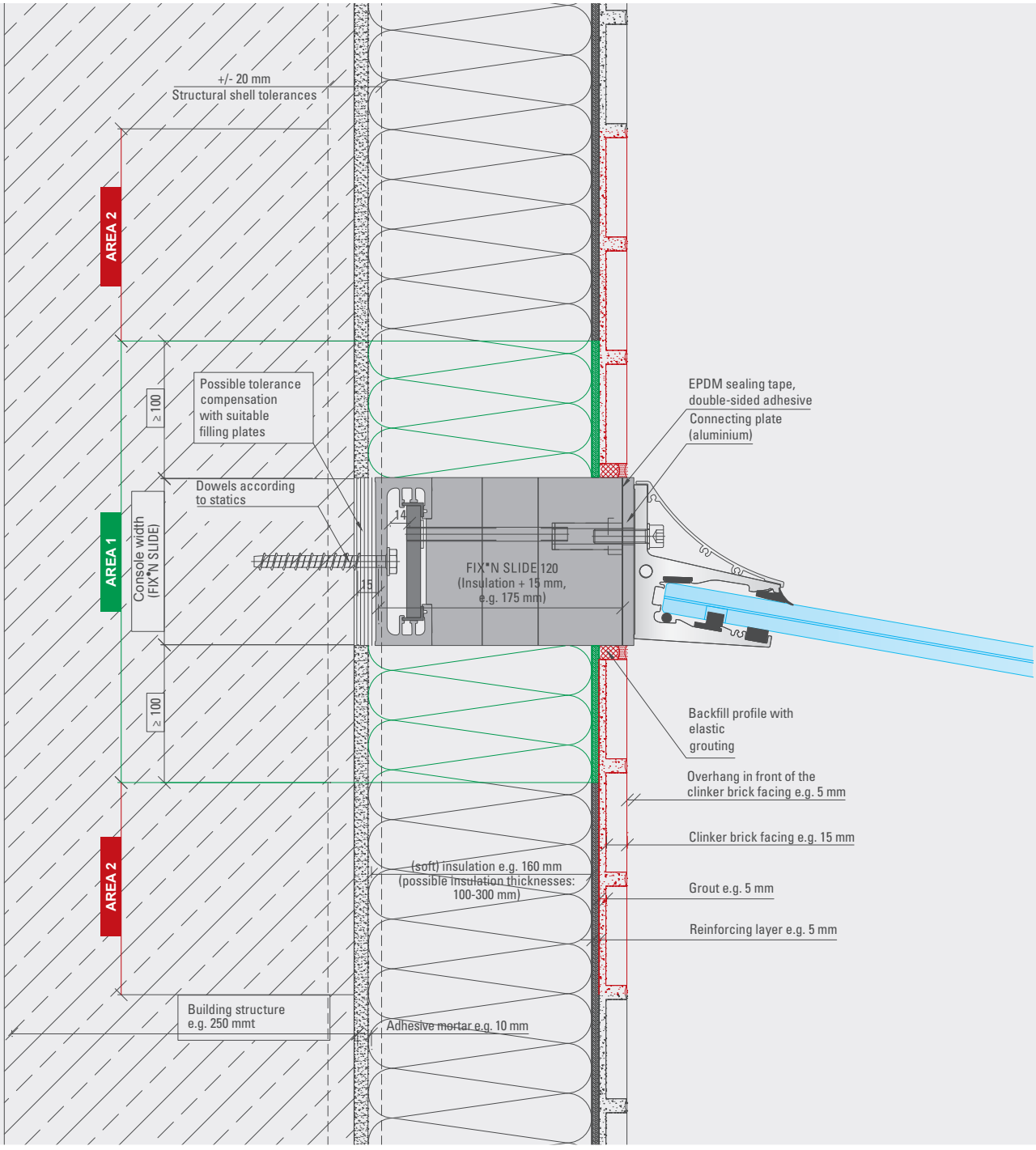
Drawing number: CC-P3-015

Proofs for load input and forwarding must be provided by the customer

Glass canopy CANOPY *cloud*

clinker brick facing and soft insulation

Vertical section



Installation recommendation

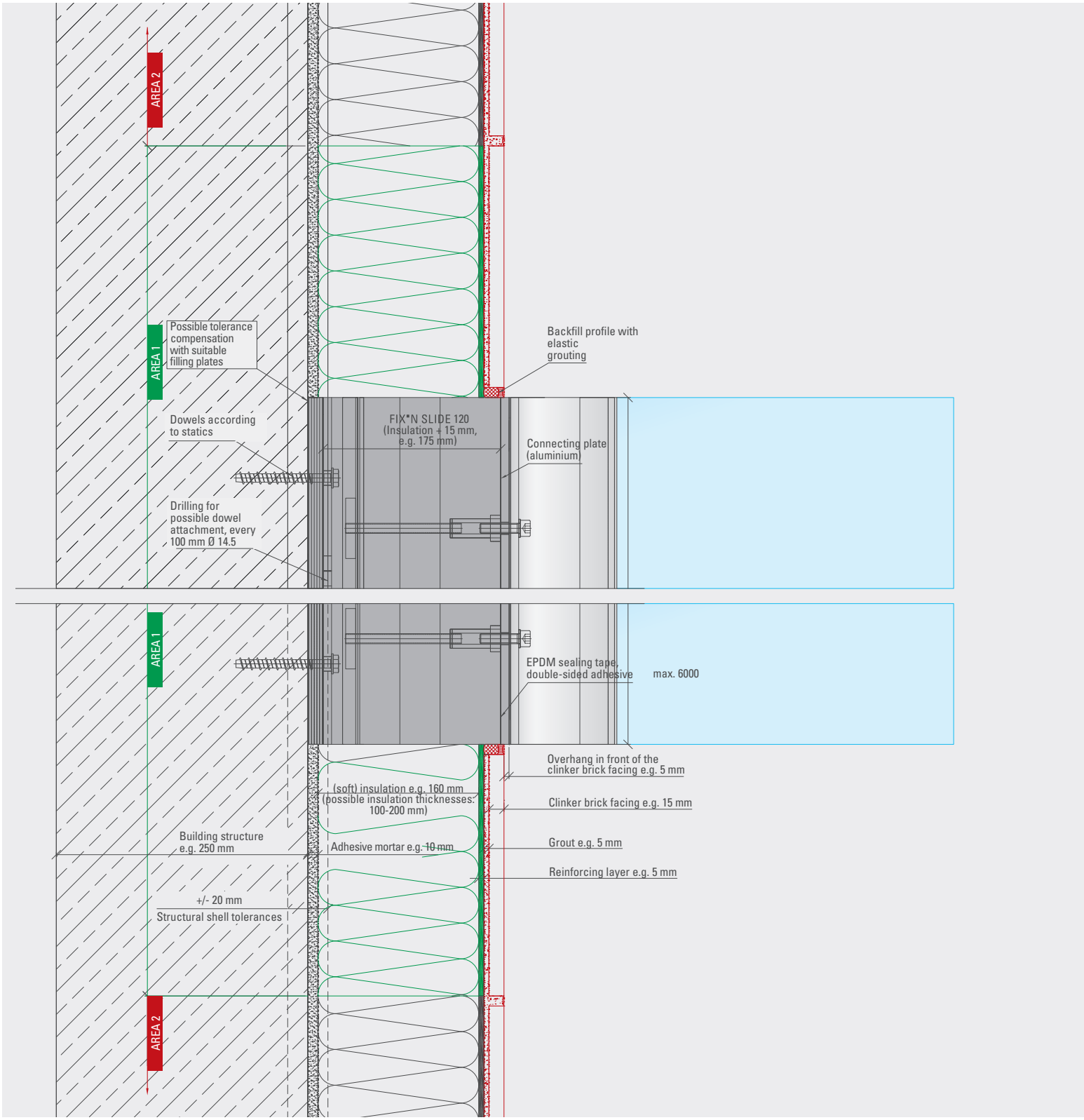
- Cut ETICS back: AREA 1 (console width FIX"N SLIDE + 200 mm)
- Mill off clinker brick facing to reinforcing layer: AREA 2
- Install FIX"N SLIDE
- Execute insulation and reinforcing layer (reinforcing layer must overlap existing reinforcing layer by approx. 150 mm).
- Observe the specifications of the ETICS system provider
- Restore ETICS with clinker brick facing

Drawing number: CC-P3-516

Proofs for load input and forwarding must be provided by the customer

CANOPY *cloud* with FIX"N SLIDE

Horizontal section

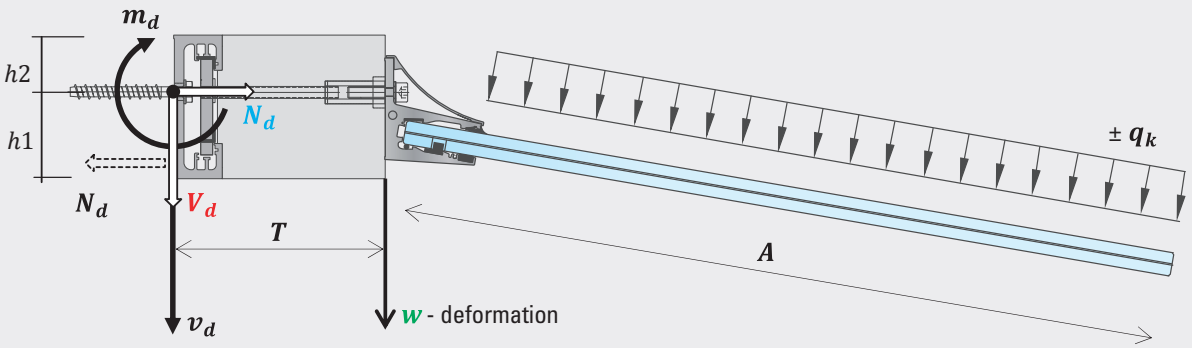


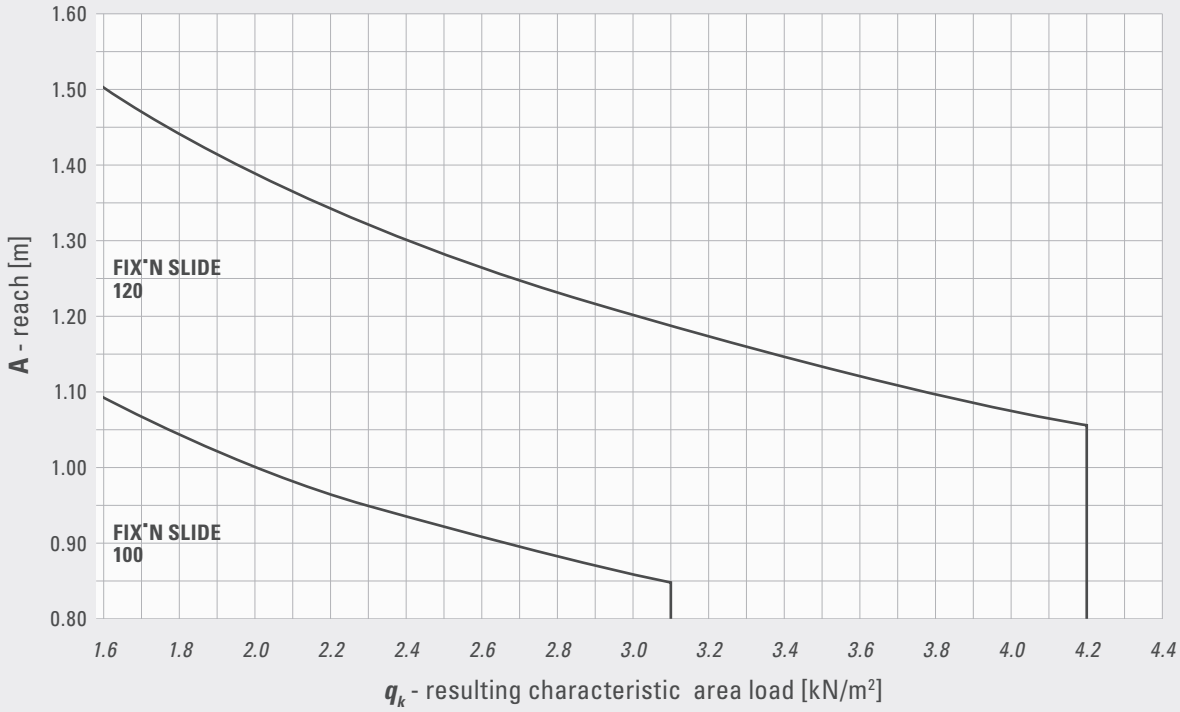
Drawing number: CC-P3-016

Proofs for load input and forwarding must be provided by the customer

Dimensioning FIX'N SLIDE

Load capacity, deformations and bearing forces





Calculated values of the linear bearing moment m_d and the linear bearing force v_d

$v_{d.1[kN/m]} = (\gamma_Q \cdot q_{k[kN/m^2]} + \gamma_{G.sup} \cdot g_{[kN/m^2]}) \cdot A_{[m]}$ under downward loads ($q_k > 0$) γ_Q = 1,5 , $\gamma_{G.sup}$ = 1,35

$v_{d.2[kN/m]} = (\gamma_Q \cdot q_{k[kN/m^2]} - \gamma_{G.inf} \cdot g_{[kN/m^2]}) \cdot A_{[m]}$ under upward loads ($q_k < 0$) γ_Q = 1,5 , $\gamma_{G.inf}$ = 1,0

$m_{d.1[kNm/m]} = v_{d.1[kN/m]} \cdot (T_{[m]} + A_{[m]}/2)$

$m_{d.2[kNm/m]} = v_{d.2[kN/m]} \cdot (T_{[m]} + A_{[m]}/2)$

g – Glass weight = 0.4 kN/m² for VSG 16, 0.5 kN/m² for LSG 20 bzw. 0.6 kN/m² or VSG 24

Characteristic value of the linear bearing moment m

$m_{[kNm/m]} = (q_{k[kN/m^2]} + g_{[kN/m^2]}) \cdot A_{[m]} \cdot (T_{[m]} + A_{[m]}/2)$

Limit state of carrying capacity

$m_{d.1} \leq m_{R.d}$, $-m_{d.2} \leq m_{R.d}$ and $v_d \leq v_{R.d}$

	T [mm]	to 90	90-100	100-120	120-140	140-160	160-180	180-200	100-220	220-240	240-260	260-280	280-300	300-320
FS 100	$m_{R.d}$ [kNm/m]	4.24	3.98	3.56	3.25	2.99	2.79	2.62	2.47	2.34	2.23	2.14	2.05	1.97
	$v_{R.d}$ [kN/m]	47.1	39.8	29.7	23.2	18.7	15.5	13.1	11.3	9.8	8.6	7.7	6.9	6.2
FS 120	$m_{R.d}$ [kNm/m]	7.76	7.19	6.31	5.65	5.14	4.72	4.38	4.09	3.84	3.63	3.44	3.28	3.13
	$v_{R.d}$ [kN/m]	52.4	52.4	52.4	40.4	32.1	26.3	21.9	18.6	16.0	14.0	12.3	11.0	9.8

Limit state of carrying capacity - deformations

Existing deformation w at the front edge of the **FS 100** element as a function of the element depth T and the characteristic linear moment m

	T [mm]	to 90	90-100	100-120	120-140	140-160	160-180	180-200	100-220	220-240	240-260	260-280	280-300	300-320
	m [kNm/m]	existing deformation w [mm]												
FS 100	to 0.25 kNm/m	< 1 mm	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	2
	0.25 - 0.50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	2	2	2	2	3
	0.50 - 0.75	< 1	< 1	< 1	< 1	< 1	< 1	2	2	2	3	3	4	4
	0.75 - 1.00	< 1	< 1	< 1	< 1	< 1	< 1	2	2	3	3	4	5	5
	1.00 - 1.25	< 1	< 1	< 1	< 1	2	2	2	3	3	4			
	1.25 - 1.50	< 1	< 1	< 1	< 1	2	2	2	3	4				
	1.50 - 1.75	< 1	< 1	< 1	< 1	2	2	3	4					

Existing deformation w at the front edge of the **FS 120** element as a function of the element depth T and the characteristic linear moment m

	T [mm]	to 90	90-100	100-120	120-140	140-160	160-180	180-200	100-220	220-240	240-260	260-280	280-300	300-320
	m [kNm/m]	existing deformation w [mm]												
FS 120	to 1.00 kNm/m	< 1 mm	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	2	2	2	3
	1.0 - 1.250	< 1	< 1	< 1	< 1	< 1	< 1	2	2	2	2	3	3	4
	1.25 - 1.75	< 1	< 1	< 1	< 1	< 1	< 1	2	2	3	3	4	4	5
	1.75 - 2.00	< 1	< 1	< 1	< 1	< 1	2	2	3	3	4	4	5	6
	2.00 - 2.25	< 1	< 1	< 1	< 1	2	2	2	3	4	4	5	6	
	2.25 - 2.75	< 1	< 1	< 1	< 1	2	2	3	3	4				
	2.75 - 3.25	< 1	< 1	< 1	< 1	2	2	3	4					

Bearing forces: N_d and V_d

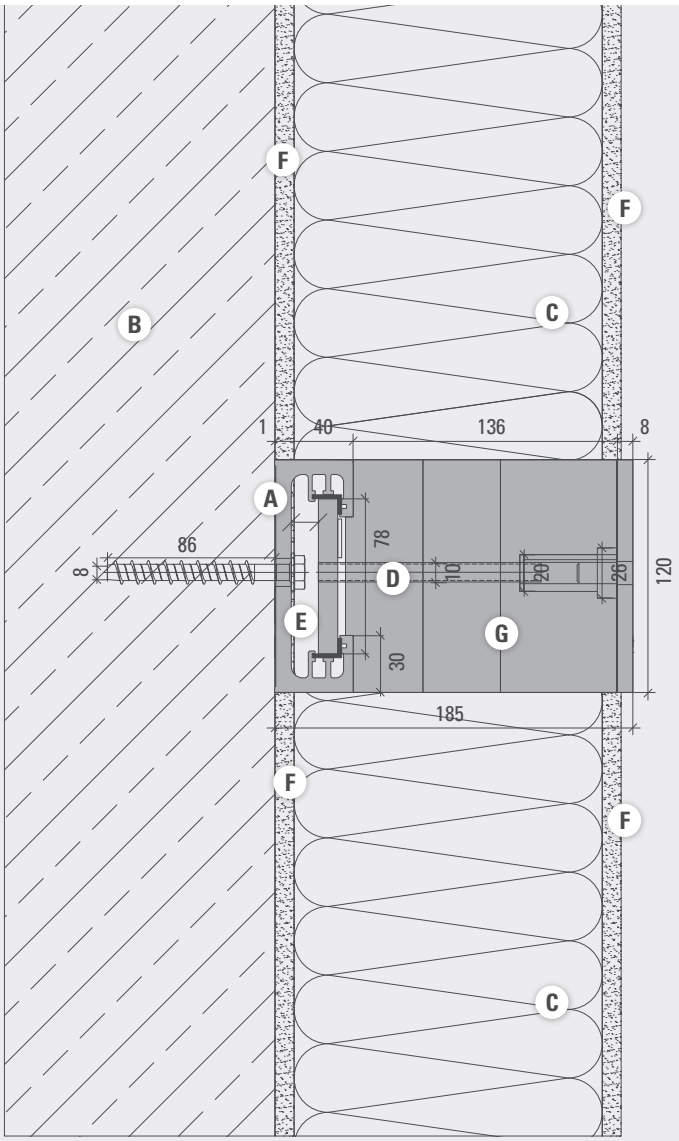
Bearing forces N_d and V_d are to be calculated according to the specifications on pages 20 and 21 with the linear moments and shear forces for FS $m_{d.1}$, $m_{d.2}$, $v_{d.1}$ and $v_{d.2}$.

For this C = 100 mm, h1 = h2 = 50 mm for FS 100 or 60 mm for FS 120

CANOPY CLOUD Type 1 may also be attached to FS 120 (e.g. for deformation minimisation).
In case of alternative attachment to two parallel, coupled FS 100 elements, the deformation w may be approximately halved.

Thermal insulation calculations

purs. DIN 4108-2 and χ-value calculation (example)



Characteristics

- Construction component (W x H x L)

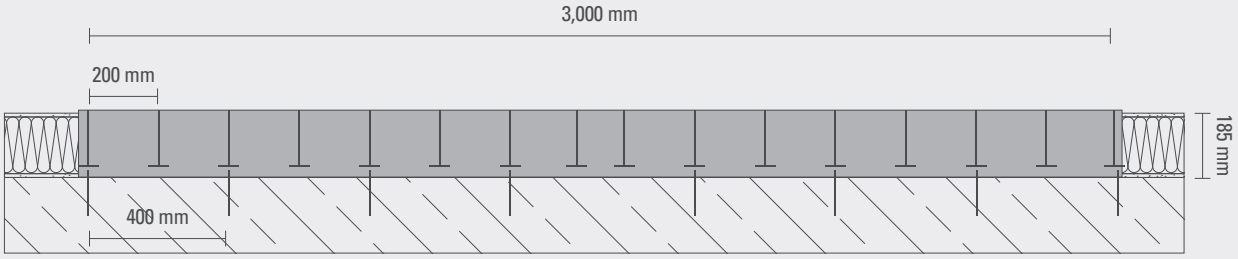
  120 mm x 185 mm x 3000 mm

  400 mm dowel spacing

  200 mm tension rod/sleeve spacing

Materials

		λ [W7(m·K)]	ε
A	Aluminium profile	160.000	0.900
B	Concrete reinforced (with 2% steel)	2,500	0,900
C	Insulation WLG 035	0.035	0.900
D	Stainless steel	17.00	0.900
E	Air		
F	Plaster	0.870	0.900
G	Pressure-resistant system insulation	0.083	0.900



Contraints

- Exterior temperatures

: T_a = -5° C
inside: T_i = 20° C

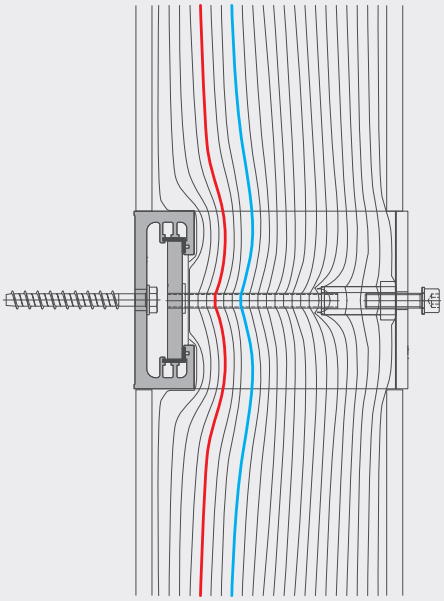
- External thermal transfer

: R_a = 0.04 m²K/W
inside: R_i = 0.13 m²K/W (heat flow)
R_i = 0.25 m²K/W (temperature)

Isotherm calculation

12.6° C isotherm

10.0° C isotherm



Results

- Minimum heat insulation

f_{RSi} = 0.930 (>0.70)
T = 18.13° C

Minimum heat insulation complied with

- Wall structure U = 0.20 W/m²K
250 mm reinforced concrete
10 mm plaster
160 mm insulation WLG 035
10 mm reinforcing, plaster

- Extracts from relevant standards/norms

DIN 4108-2
DIN EN ISO 13788
DIN EN ISO 10211
DIN EN ISO 10077
DIN EN ISO 12631
DIN EN ISO 6946

- Thermal bridge allowance for energy planning according to EnEV 2016

Xi value of the punctiform thermal bridge
χ = 0.277 W/K

- Audit/test report of the thermal simulation

Audit/test report No.
FS_120_3000_WDVS_160_P

Linear connection

FIX"N SLIDE	Insulation thickness mm	Xi value W/K	f_{RSI} >70	T °C
100	80	0.507	0.870	16.63
	160	0.250	0.930	18.20
	300	0.130	0.960	19.02
120	80	0.546	0.860	16.52
	160	0.277	0.930	18.13
	300	0.140	0.960	18.99

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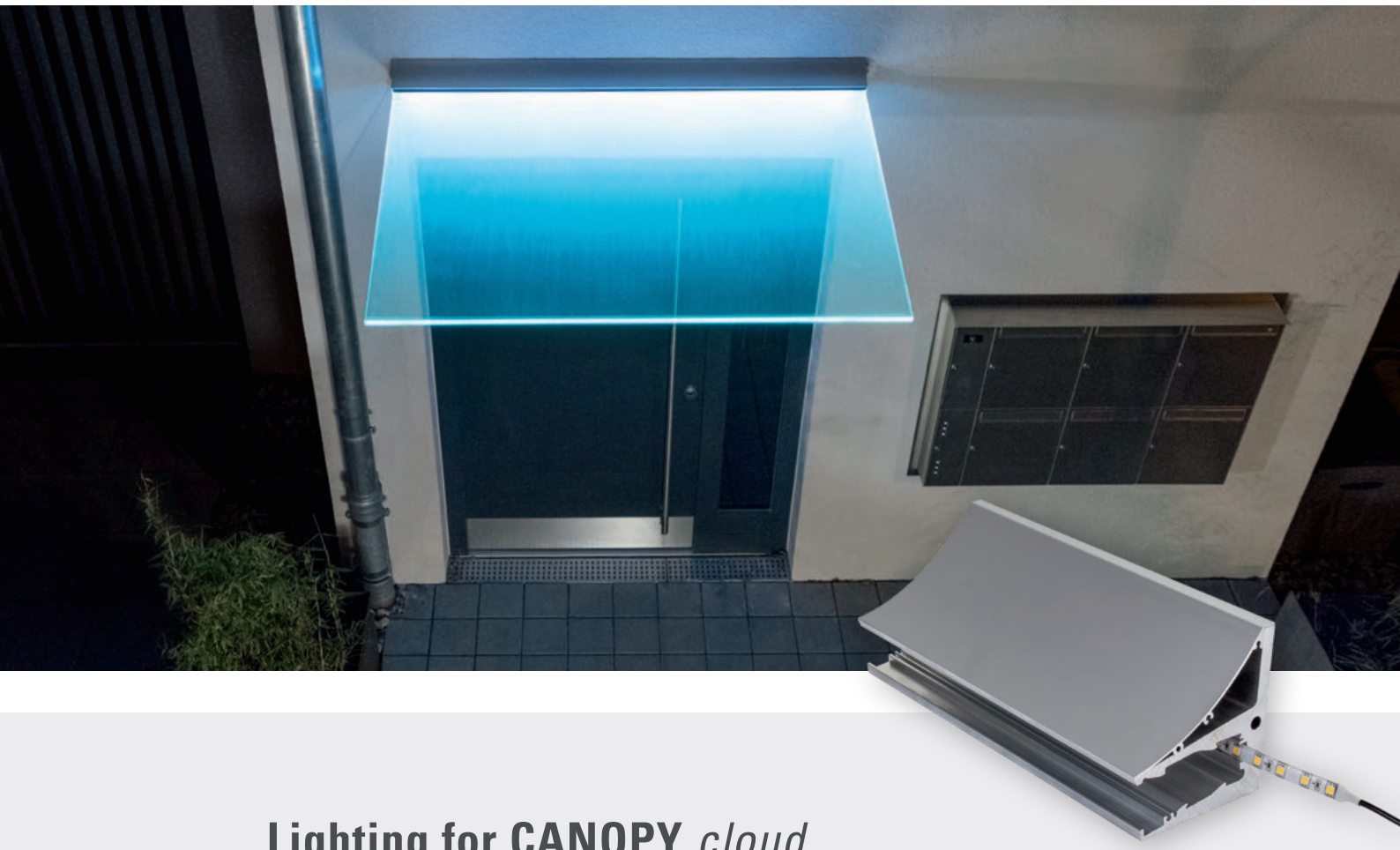
CANOPY *cloud*



Lighting for CANOPY *cloud*

LED strip

- Printed circuit board: flexible printed circuit with adhesive tape
- Voltage: 24V DC
- Power: 14.4 W/m
- LED type: SMD5050
- Number of LEDs: 60 pces./m
- Luminous flux/LED: 18-20 lm
- Separability: every LEDs or every 10 cm
- Colour temperature: 6000 K +/- 100 K
- Dimensions: 10 x 2 mm (W x H)
- Degree of protection: IP65
- Cable length: 1 m
- Packing unit:
  2.5 m roll or 6.0 m roll
- Energy efficiency class: A+
- Certificates: CE, RoHs

NOTE:
The LED strip transformer has a 1 m lead. This enables transformer connection indoors. The transformer may only be deployed in a dry environment!

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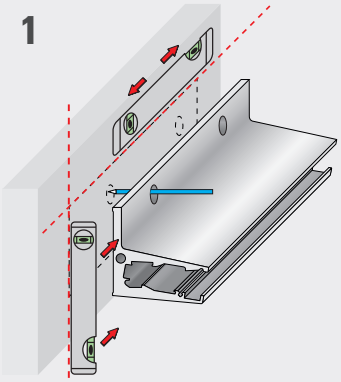
CANOPY *cloud*

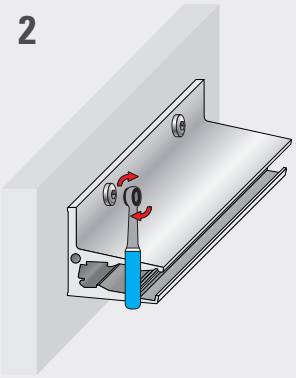
Installation manual - CANOPY *cloud*

1



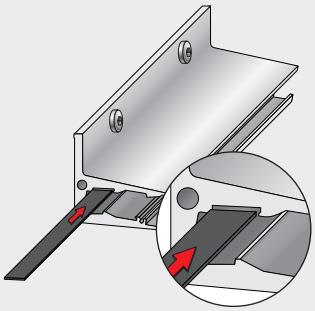
Align to the substructure. Determine the attachment points with the help of the profile.

2



Attach the profile to the substructure or building element with approved means of connection.

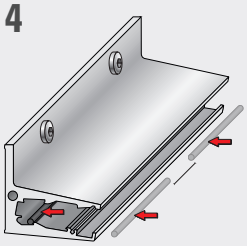
3



Slide the rear support strip into the upper groove.

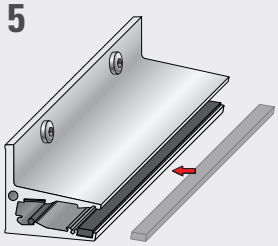
⚠ Profile projection left and right approx. 5 mm

4



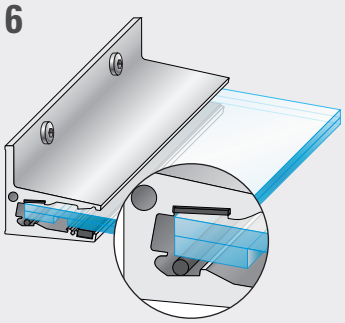
Place the clipping strips in the inner profile notch at a spacing of 200 mm, minimum of 3 clipping strips per washer.

5



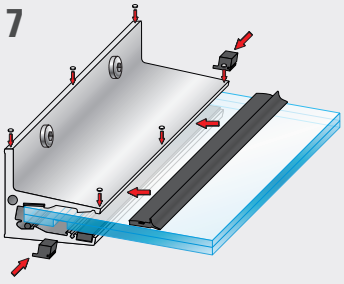
Place the front support strip in the groove provided for this purpose.

6



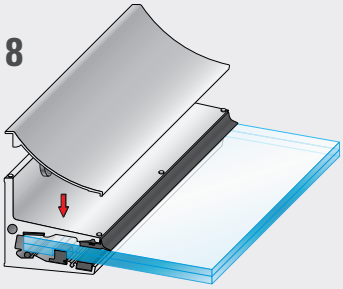
Insert the glass pane into the profile stop.

7



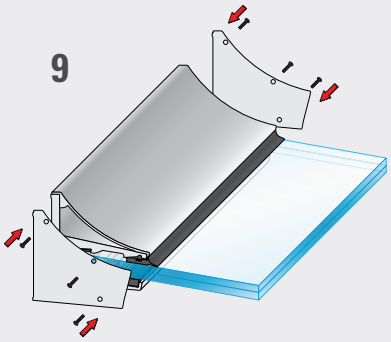
Fix the glass pane double-sided with the securing blocks. Press the front support seal between the glass and the profile. Glue the silicone buffers at regular intervals on the profile top and front edge.

8



Place the facing cover on the profile.

9



Secure the side covers and the facing cover with the locking screws. Optionally additional end plates can be glued on.

In the case of several adjacent glass panes in one profile, the panes must first be pushed apart so far in the longitudinal direction that the insertion of the securing blocks between the panes is possible. It must be ensured that the securing blocks lie correctly in the profile groove. After inserting the securing blocks, the glass panes are pushed together again(with approx. 10 mm spacing) before the end seal is inserted.

Installation manual FIX'N SLIDE

1

Slide the plastic elements for thermal bridging reduction into the areas of the aluminium mounting rail provided for this purpose.

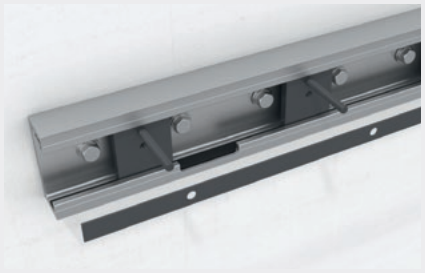
2

Determine the attachment points using the aluminum mounting rail. Attach the aluminium mounting rail to the substructure or building element with regulated/approved means of connection.

3

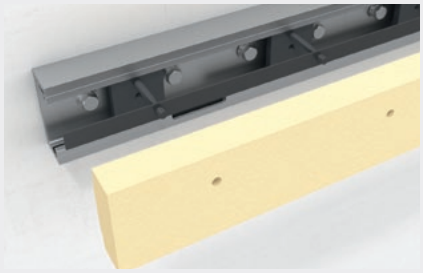
Screw the tension-resistant threaded rods into the insert plates and guide the insert plates into the aluminium mounting rail.

4



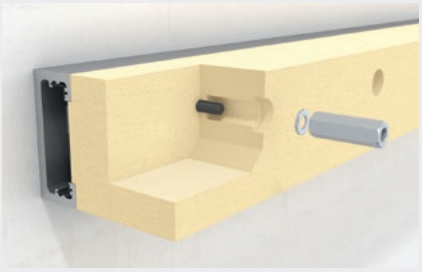
Align the insert plates according to the attachment points of the add-on element by sliding. Secure the insert plates with the pre-drilled installation aid.

5



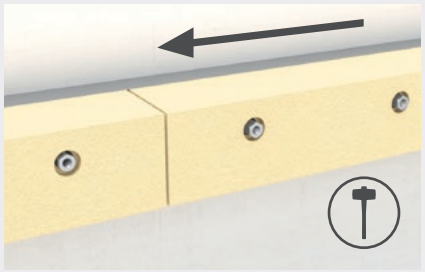
Slide the pre-drilled insulating elements over the threaded rods.

6



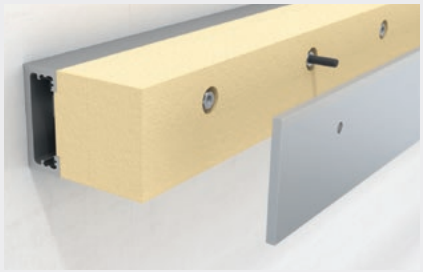
Insert the washers and threaded sleeves on the threaded rods and fasten them with a tightening torque of 10 Nm.

7



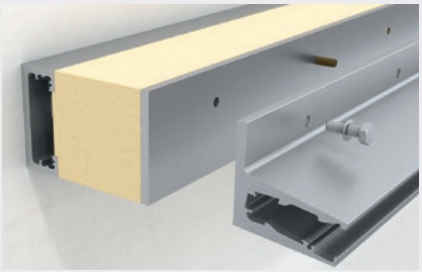
After attaching the first insulating elements, slide the other elements end-to-end together (if the case may be, knock with a hammer).

8



To help with installing, insert a bolt into a threaded sleeve and attach the optional aluminium connection plate with self-adhesive EPDM tape to the insulting element.

9

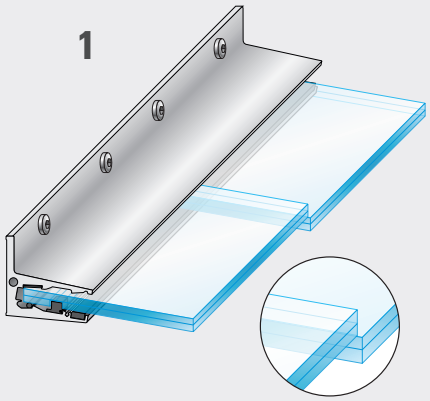


Align the attachment (here CANOPY CLOUD from GLASSLINE) with a bolt. Fasten the attachment to the substructure with regulated/approved means of connecting with a tightening torque of 24 Nm for M10 or M12 Nm for M8.

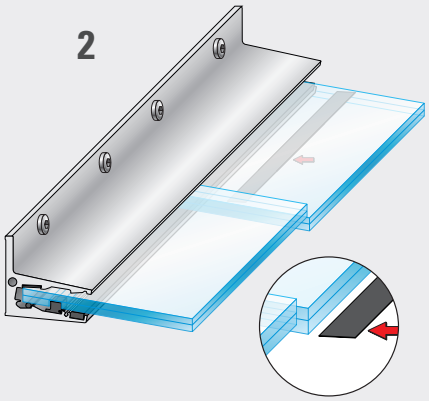
All screw connections must be secured against loosening with appropriate measures.

Options for aligning the glass joints

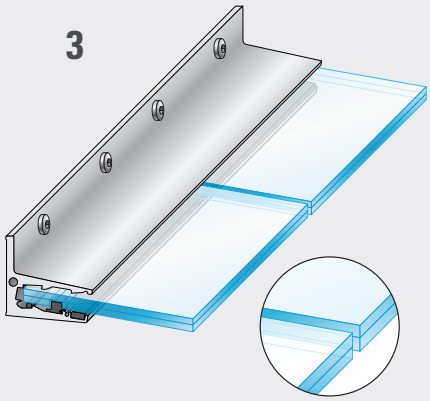
Alignment via underlaying with EPDM



Assemble the canopy as described under points 1-6 on page 62.



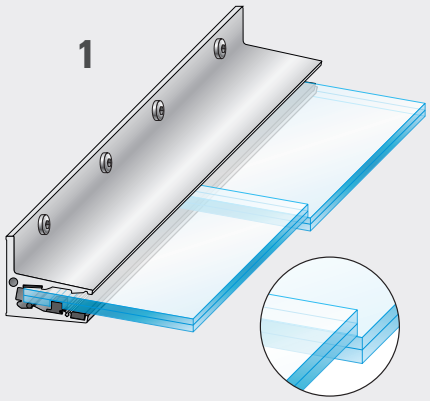
For a possible offset glass pane, place an additional EPDM strip under the front support strip.



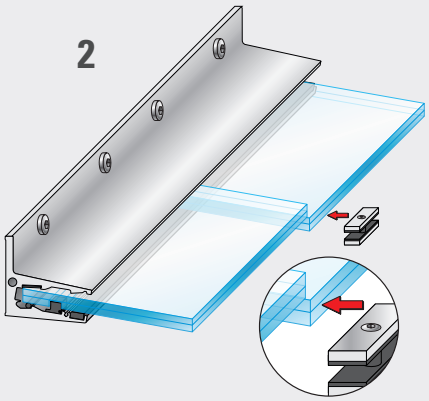
The glass pane is now aligned.

Optional fasteners for 2 glass panes in the drainage area

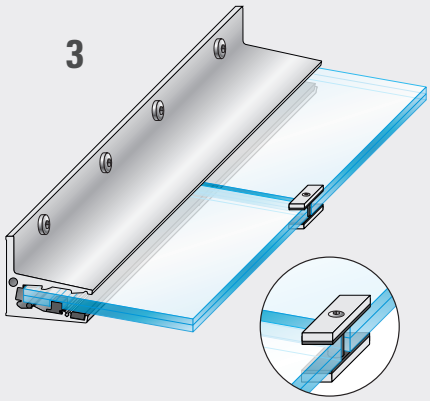
Alignment with optional fasteners



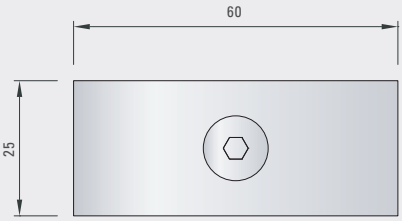
Assemble the canopy as described under points 1-9 on page 62.



Insert and fix the aluminium clip over the two glass panes.



The glass pane is now aligned.



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>
> - Print/save inquiry
> - Fill in
> - Fax to **+49 (0) 6291/6259-11** or by email to **info@glassline.de**
>
> Your inquiry will be processed as soon as possible.

Name

Company

Street address

Construction project

Postcode/ City

Telephone

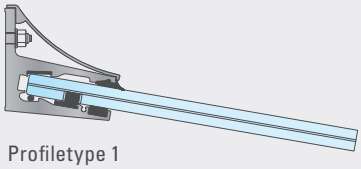
Telefax

Email

(Please fill in all fields)

Glass canopy stock program

System 800 | **System** 900
System 1,000 | **System** 1,100

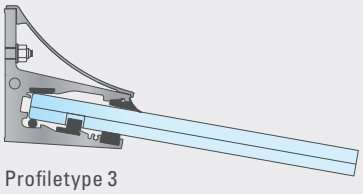


Profiletype 1

Please fill in or check

		System / Reach mm			
Glass dimensions	piece(s)	800	900	1,000	1,100
1,200 mm					
1,400 mm					
1,600 mm					
1,800 mm					
2,000 mm					
2,200 mm					
2,400 mm					
2,600 mm					
2,800 mm					
3,000 mm					

System 1,200 | **System** 1,300
System 1,500



Profiletype 3

Please fill in or check

		System / Reach mm		
Glass dimensions	piece(s)	1,200	1,300	1,500
1,600 mm				
1,800 mm				
2,000 mm				
2,200 mm				
2,400 mm				
2,600 mm				
2,800 mm				
3,000 mm				

Surface

(please check)

- ☐ "Natural" untreated
- ☐ Stainless steel look (E6EV1)
- ☐ Anthracite RAL 7016
- ☐ White RAL 9016
- ☐ Iron mica gray DB 703

FIX"N SLIDE

☐ Optional connecting plate, aluminium 8 mm

FS 100 + 120

☐ 65 mm	☐ 135 mm	☐ 235 mm
☐ 85 mm	☐ 155 mm	☐ 255 mm
☐ 95 mm	☐ 175 mm	☐ 275 mm
☐ 115 mm	☐ 195 mm	☐ 295 mm
	☐ 215 mm	☐ 315 mm

Accessories

- ☐ LED strip
- ☐ Aluminium clip
- ☐ Additional end caps to cover the screws

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CANOPY *cloud* product inquiry

The speedy inquiry:

- Print/save inquiry
- Fill in
- Fax to **+49 (0) 6291/6259-11** or by email to **info@glassline.de**
  Your inquiry will be processed as soon as possible.

Name

Company

Street address

Construction project

Postcode/ City

Telephone

Telefax

Email

(Please fill in all fields)

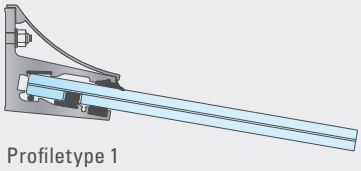
☐ **System** 1,100 – LSG 16
max. reach: 1,100 mm

☐ **System** 1,300 – LSG 20
max. reach: 1,300 mm

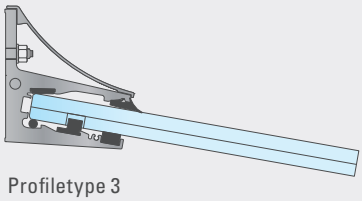
☐ **System** 1,500 – LSG 24
max. reach: 1,500 mm

☐ **System** 1,700 individual – LSG 26
max. reach: 1,700 mm

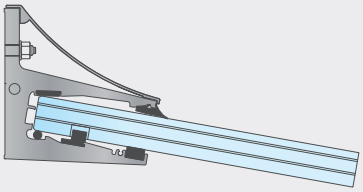
☐ **System** 1,900 individual – LSG 30
max. reach: 1,900 mm



Profiletype 1
max. glass width: 5,690 mm



Profiletype 3
max. glass width: 5,690 mm



Profiletype 5
max. glass width: 5,100 mm

width in mm:

reach in mm:

piece(s):

Surface
(please check)

☐ "Natural" untreated

☐ Stainless steel look (E6EV1)

☐ RAL or special colour powder-coated or anodised

FIX"N SLIDE

☐ Optional connecting plate, aluminium 8 mm

FS 100 + 120	☐ 135 mm	☐ 235 mm
☐ 65 mm	☐ 155 mm	☐ 255 mm
☐ 85 mm	☐ 175 mm	☐ 275 mm
☐ 95 mm	☐ 195 mm	☐ 295 mm
☐ 115 mm	☐ 215 mm	☐ 315 mm

Accessories

☐ LED strip

☐ Aluminium clip

☐ Additional end caps to cover the screws

GLASSLINE

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info@glassline.de
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