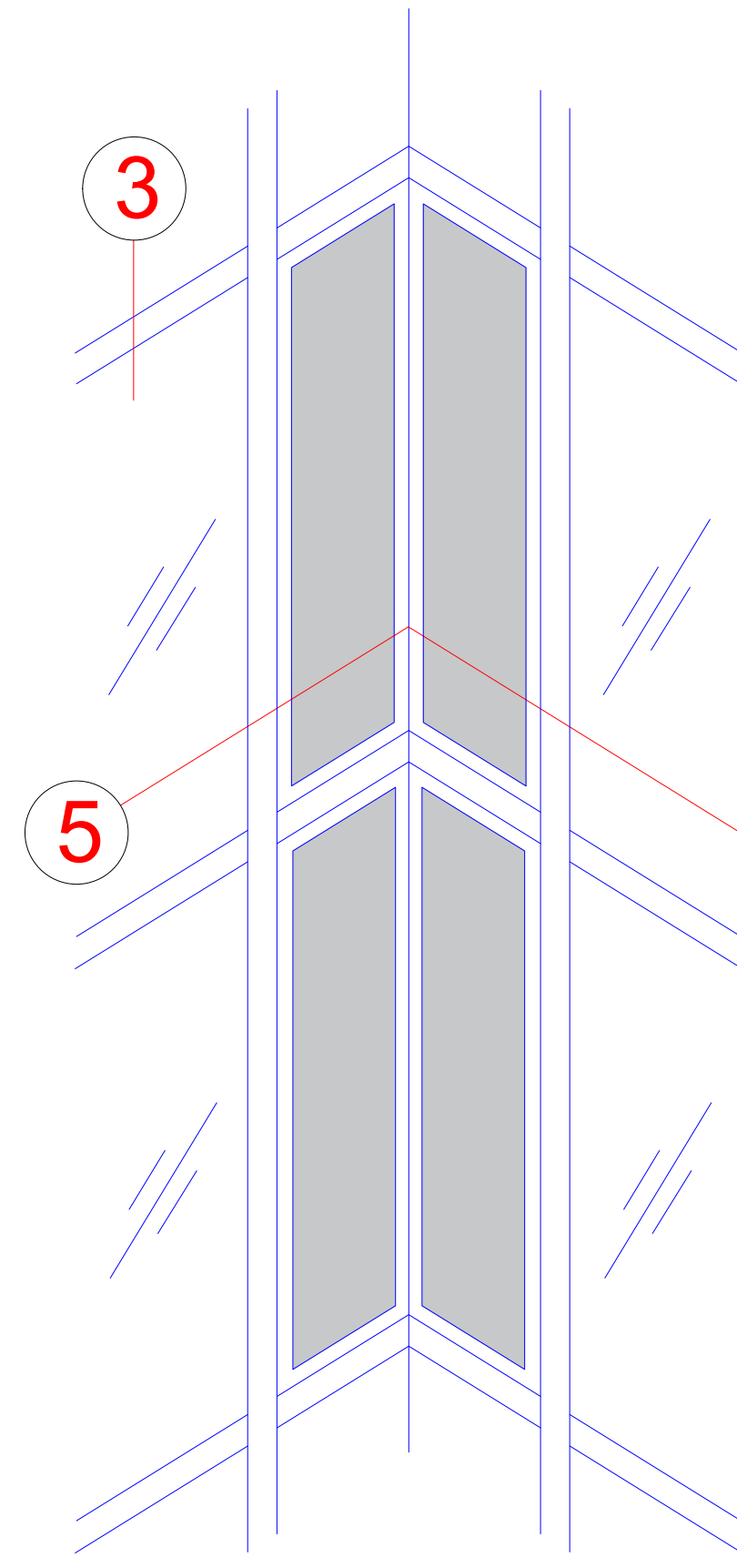
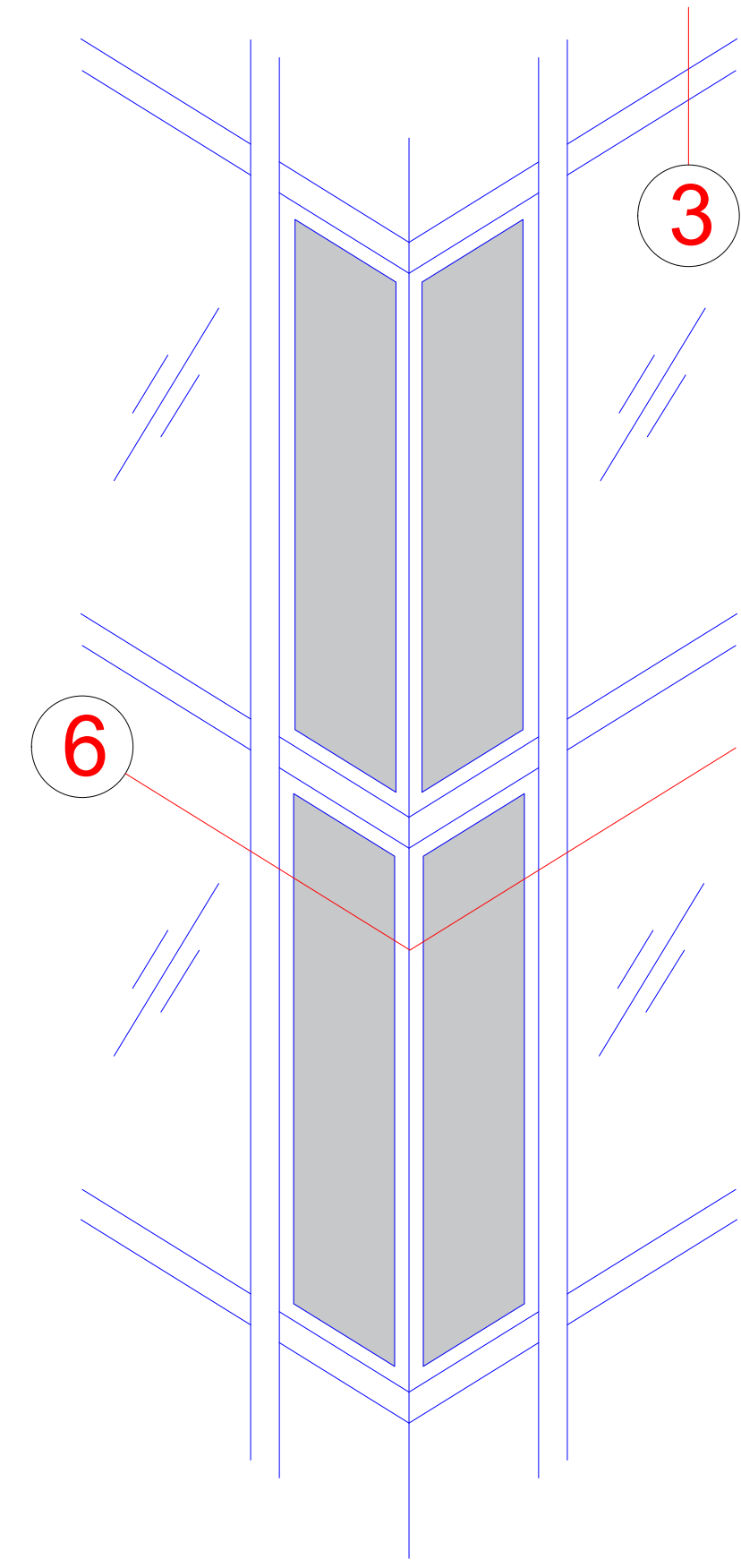


Fixed glazing

90° inner corner



90° outer corner



Prüfungen und Normen ***

Wärmedämmung *

Thermal insulation

$$U_f = 0,69 - 2,6 \text{ W/(m}^2\text{K)}$$

Airborne sound insulation in accordance with

bis R_w 48 dB

Einbruchhemmung nach DIN V ENV 1627

Up to R_w 48 dB

Burglar resistance in accordance with DIN

Klasse WK3 / RC3

Luftdurchlässigkeit nach DIN EN 12152

Class WK3 / RC3

Air permeability in accordance with DIN

Klasse AE

Schlagregendichtheit nach DIN EN 12155

Class AE

Watertightness in accordance with DIN EN

Klasse RE 1200

Windlastwiderstand nach EN 12179

Class RE 1200

Wind load resistance in accordance

2,0 - 3,0 KN/m²

Stoßfestigkeit DIN EN 14019,

Impact resistance DIN EN 14019,
load from inside / outside

Klasse I5 / E5

- * Bewertung/Berechnung der Wärmedurchgangskoeffizienten des Vorhangfassadenelements ist gemäß

Class I5 / E5

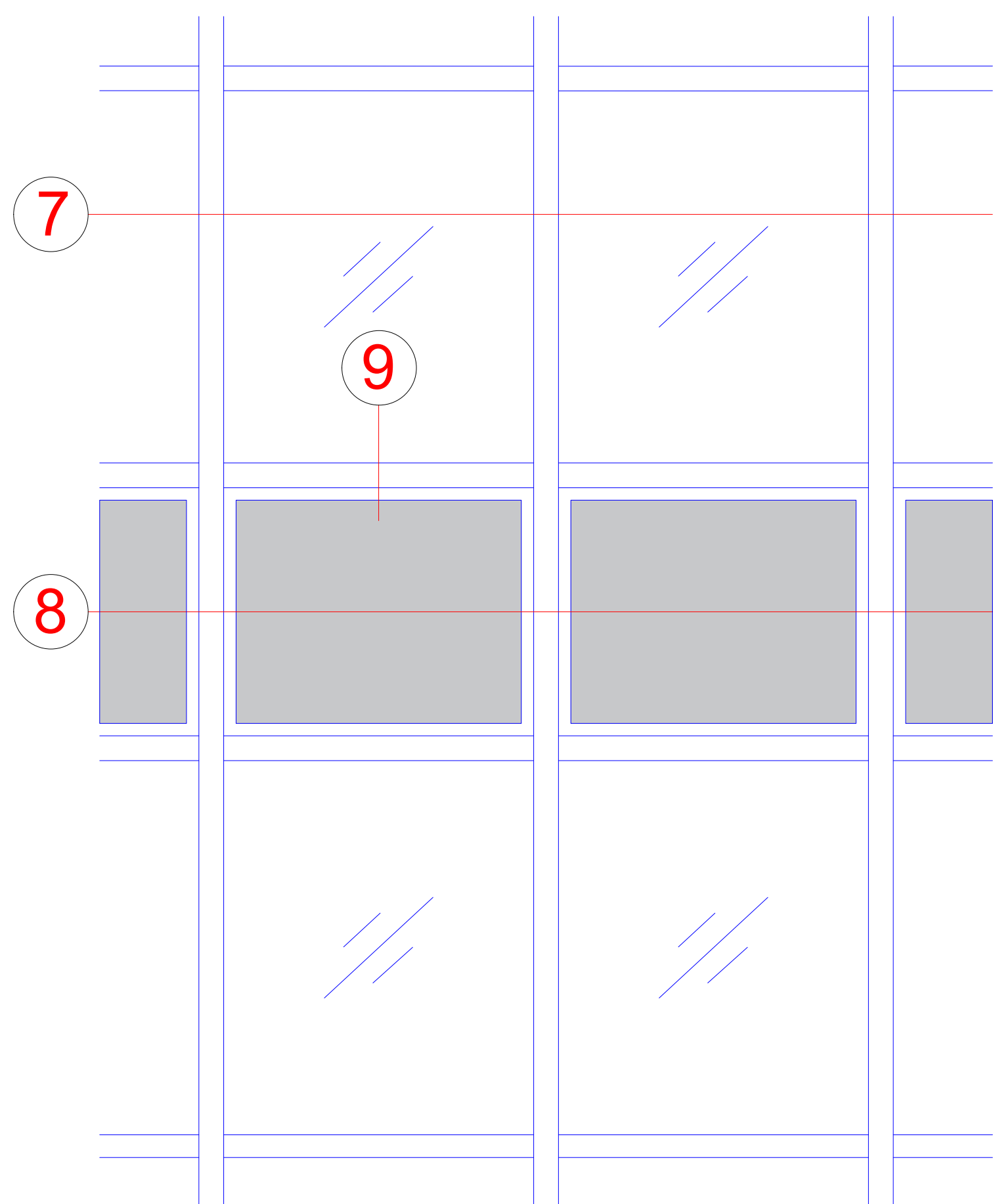
* Bewertung/Berechnung der Wärmedurchgangskoeffizienten U_{cw} eines Vorhangfassadenelements ist gemäß prEN 13947 durchzuführen.
Assessment/calculation of the U_{cw} thermal transmittance of a curtain wall unit must be carried out in accordance with prEN 13947.

- Object-specific certification – if necessary

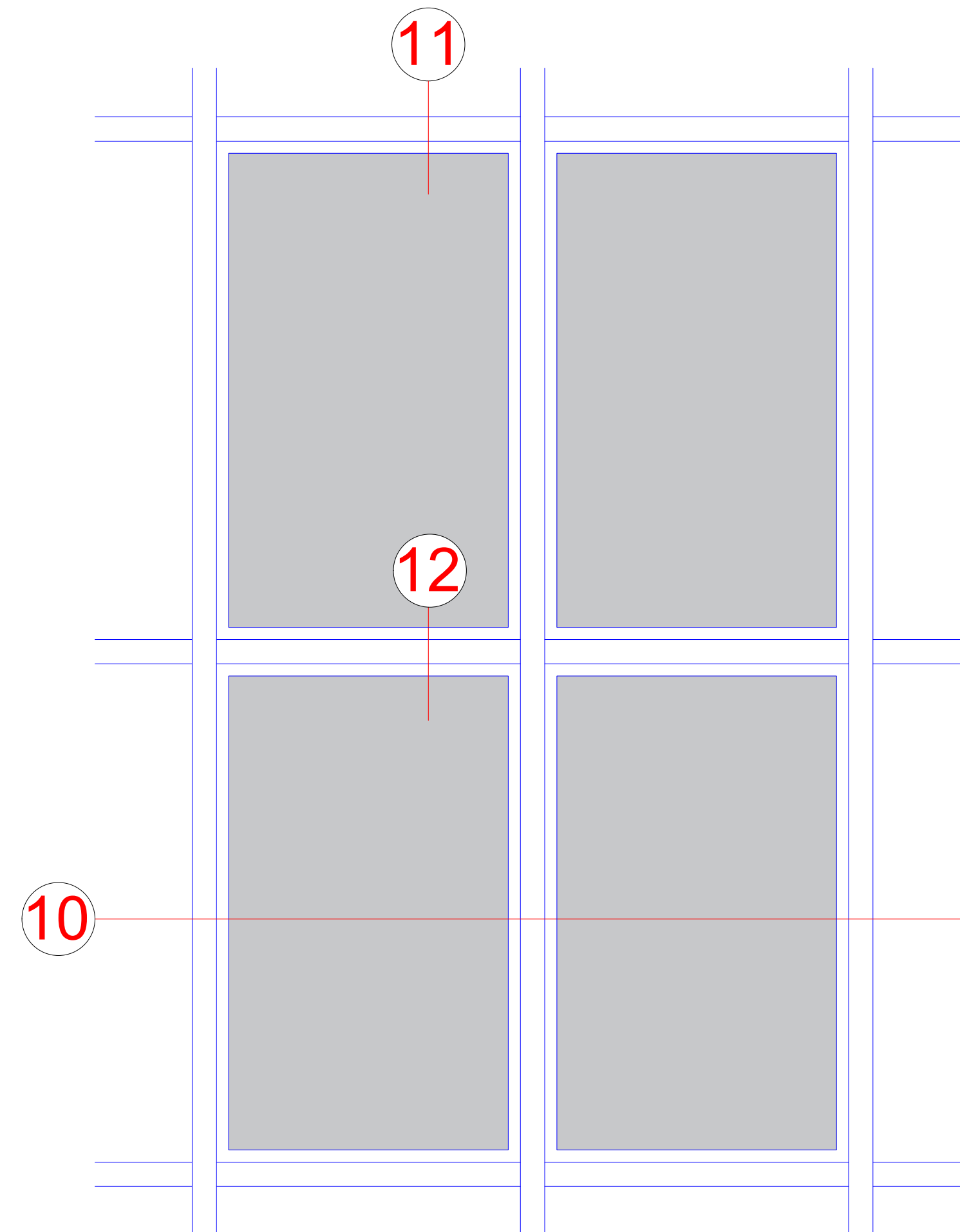
*** Die Angaben beschreiben die Bestwerte des Gesamtsystems.
Die Eigenschaften einer jeweils gewählten Ausführungsvariante oder
Elementkombination sind im Einzelfall anhand der ausführlichen
Prüfdokumentation zu bestimmen.

The information describes the optimum values of the entire system.
The properties of a selected design option or unit combination have to be
determined individually based on the comprehensive test documentation.

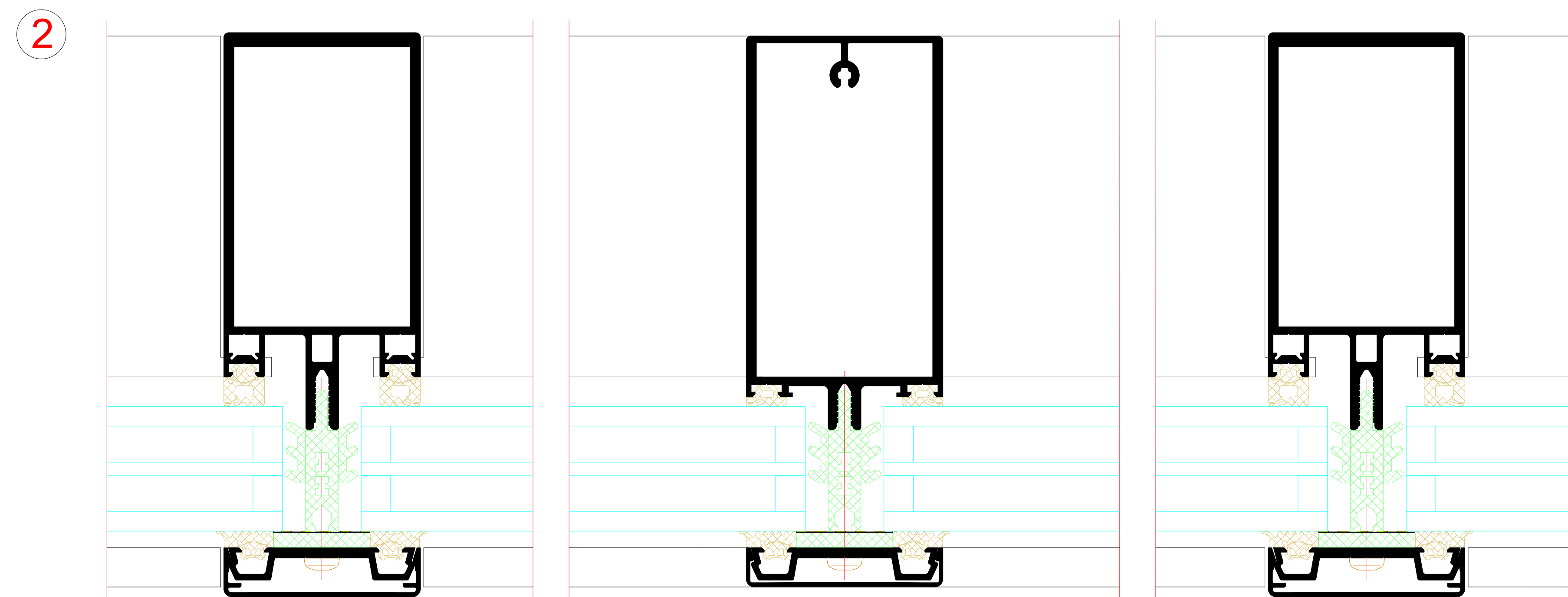
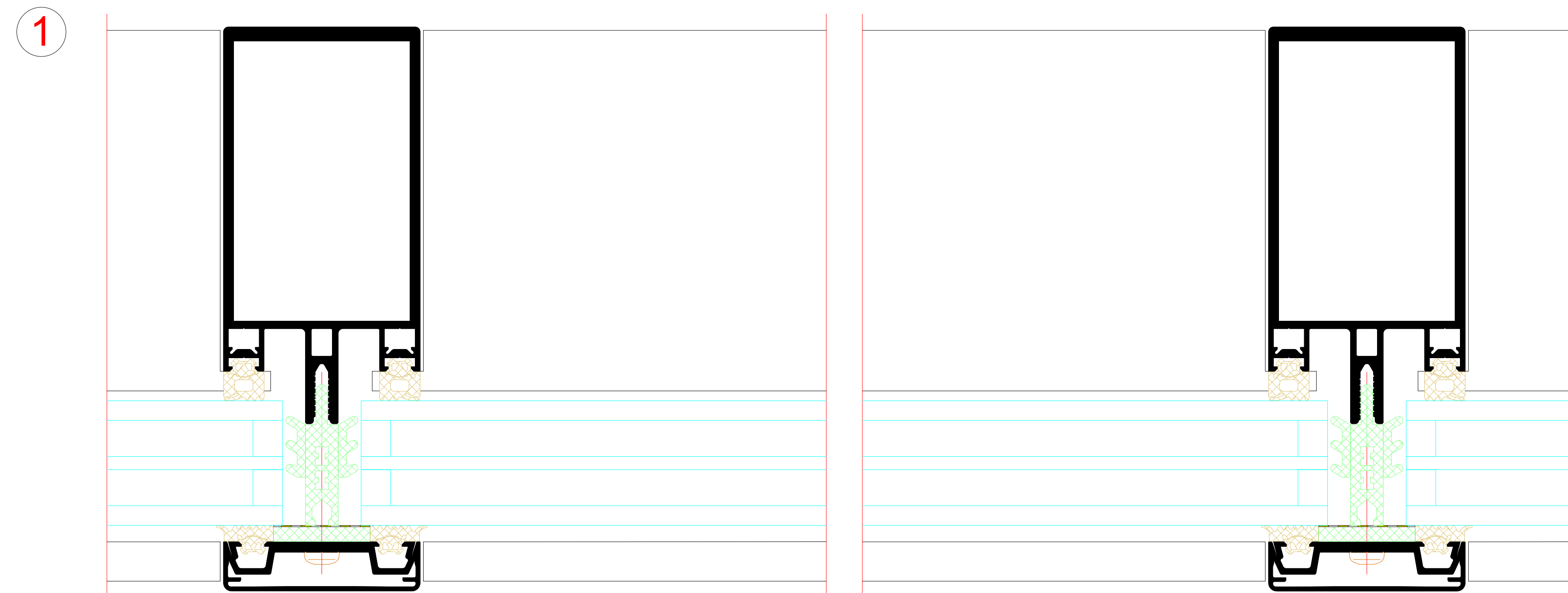
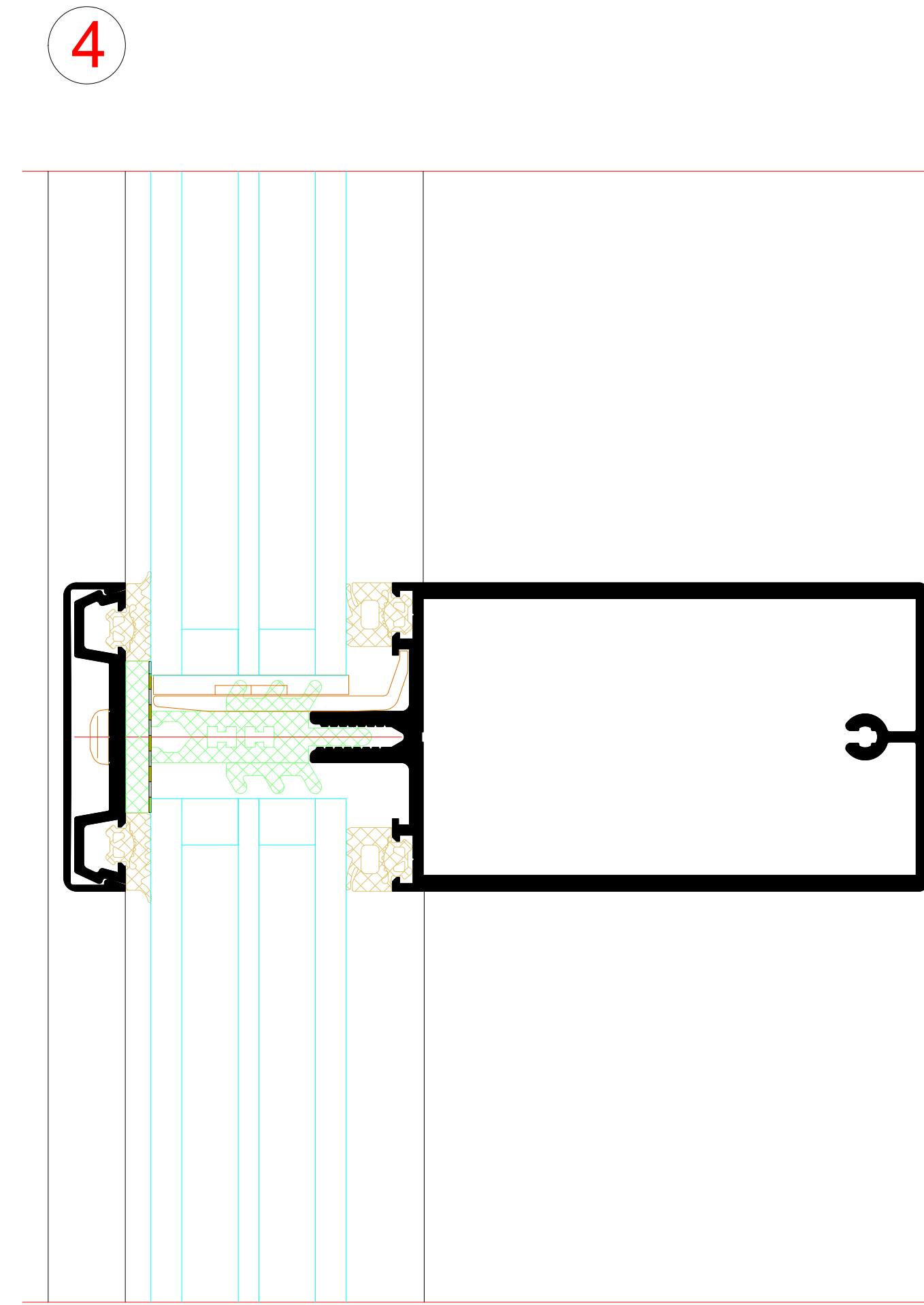
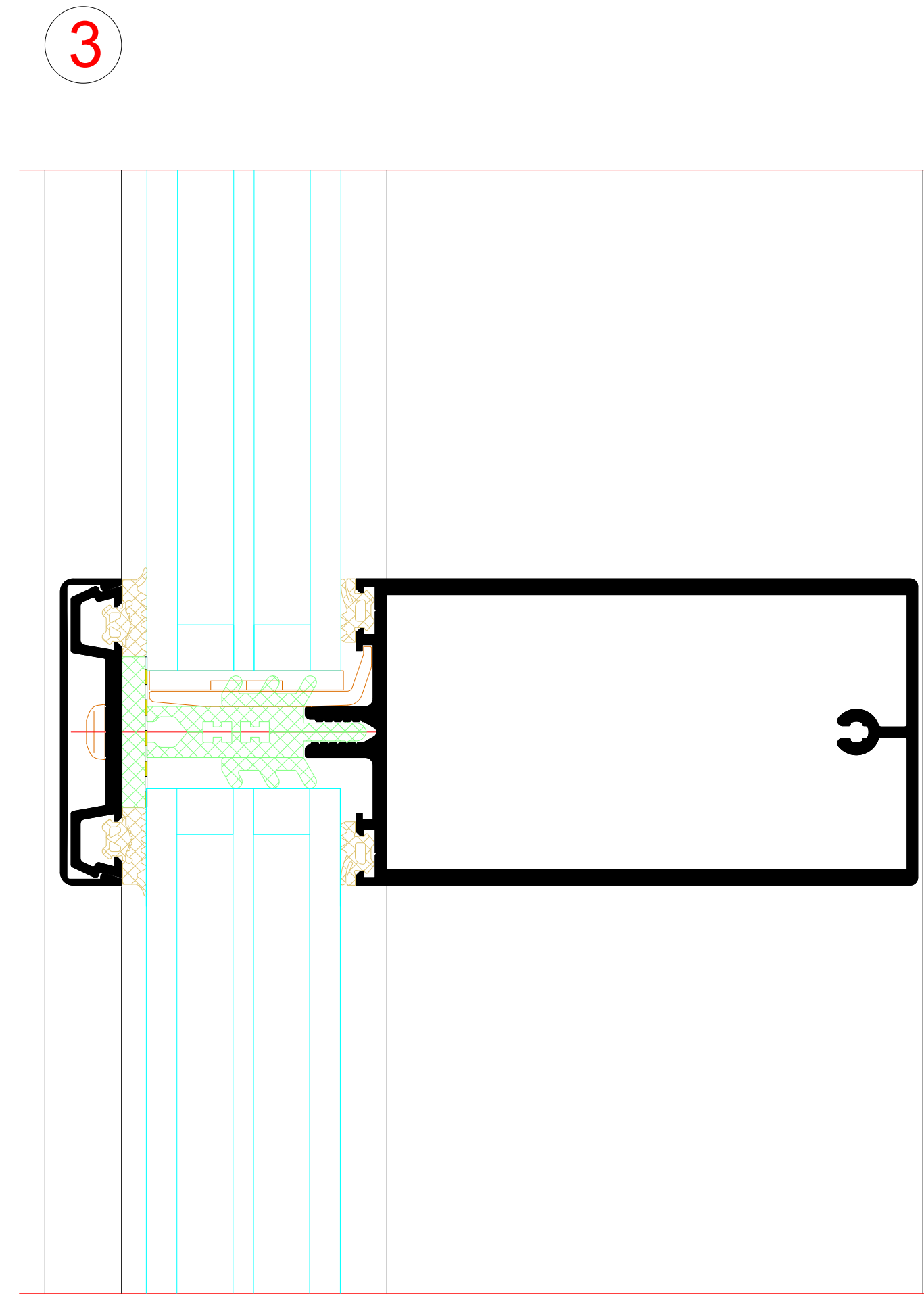
Ventilated spandrel



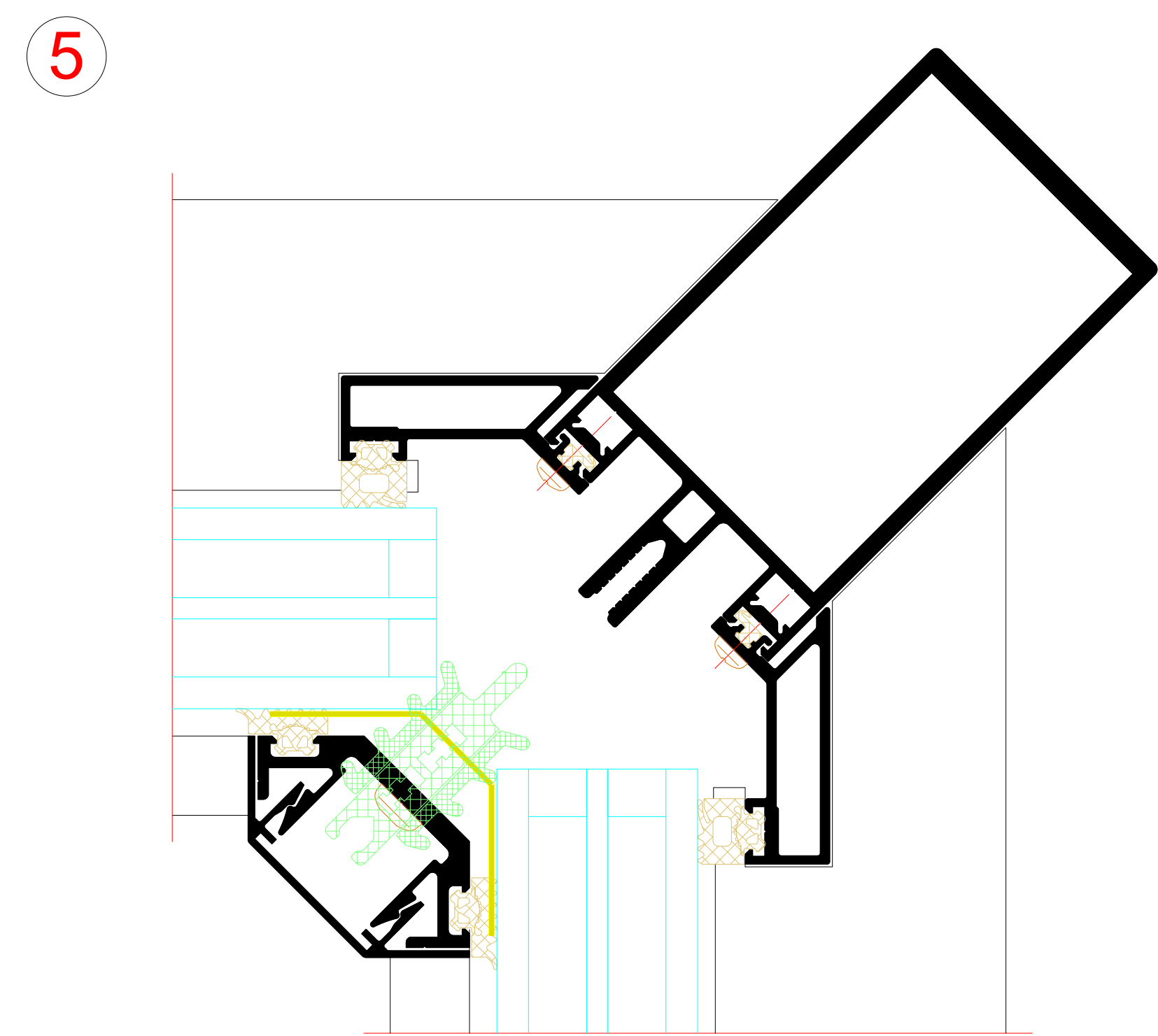
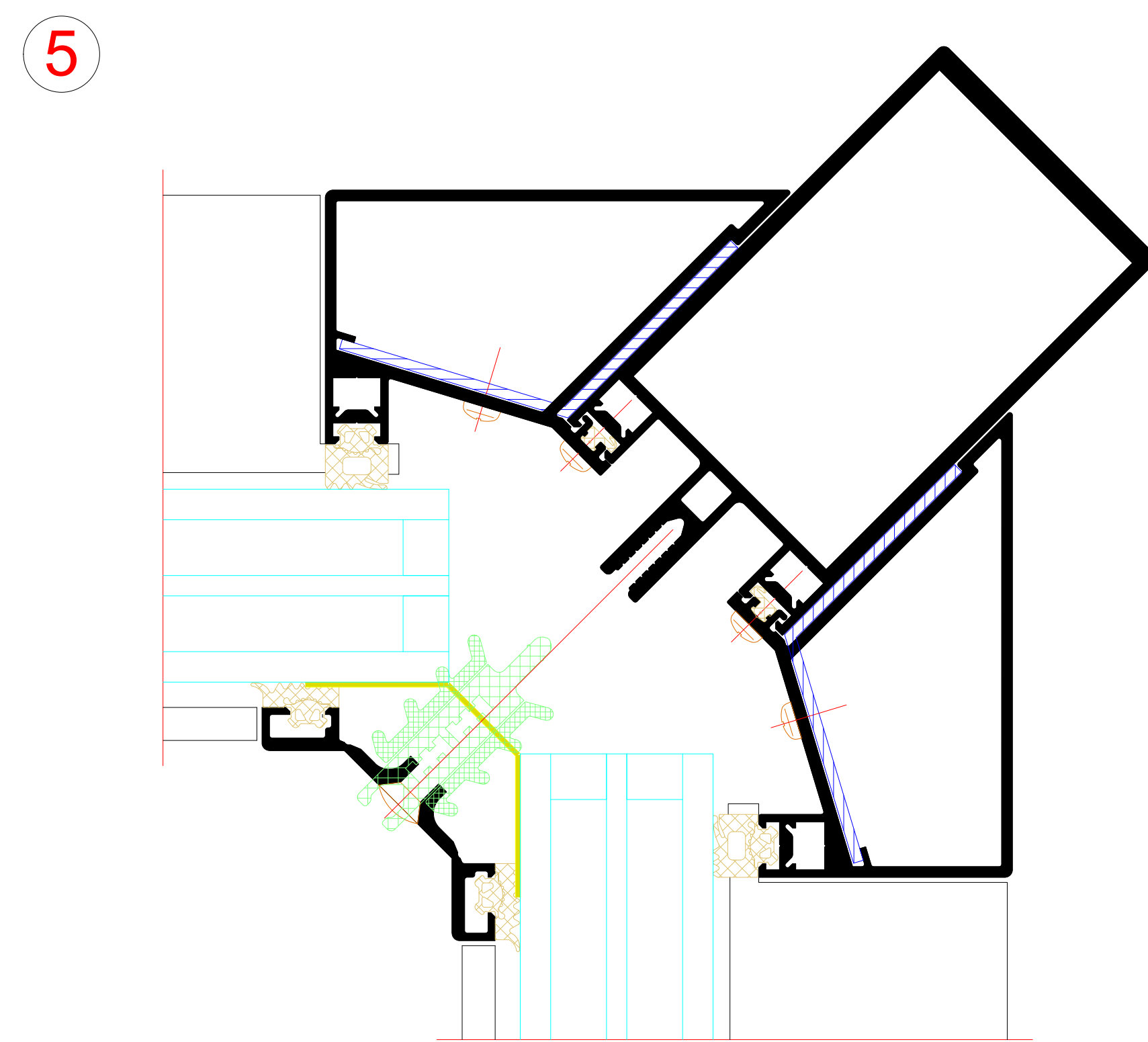
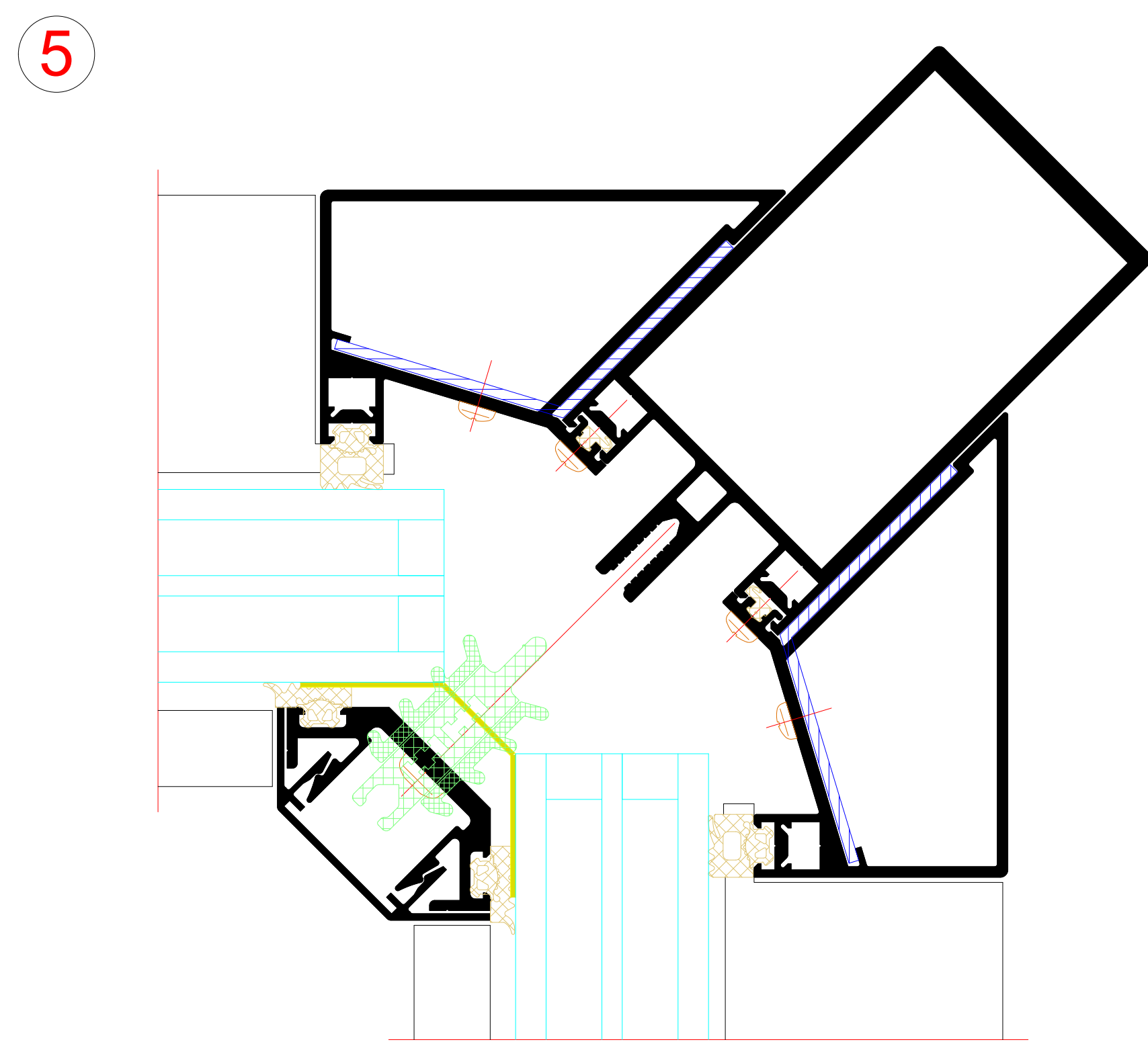
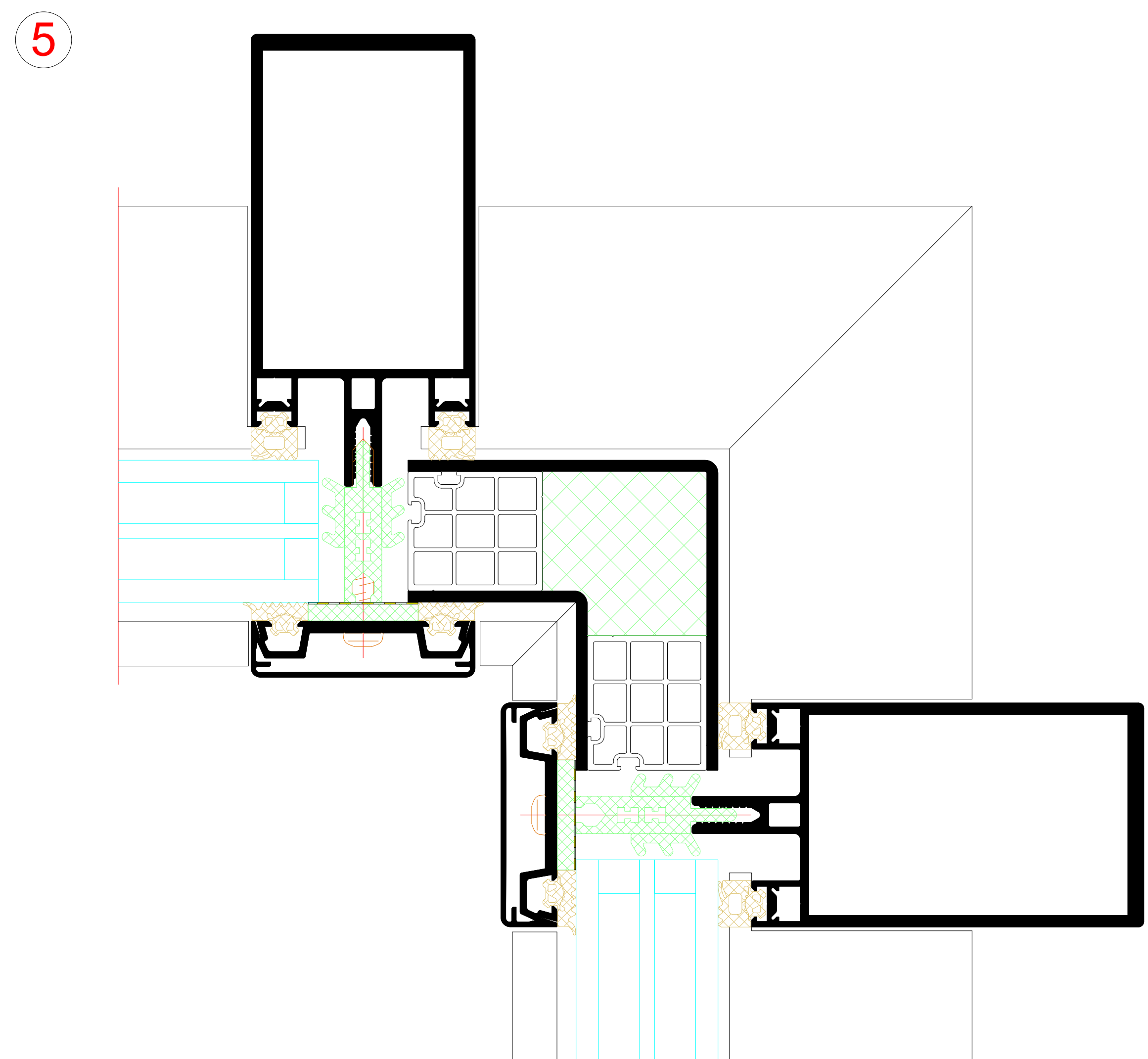
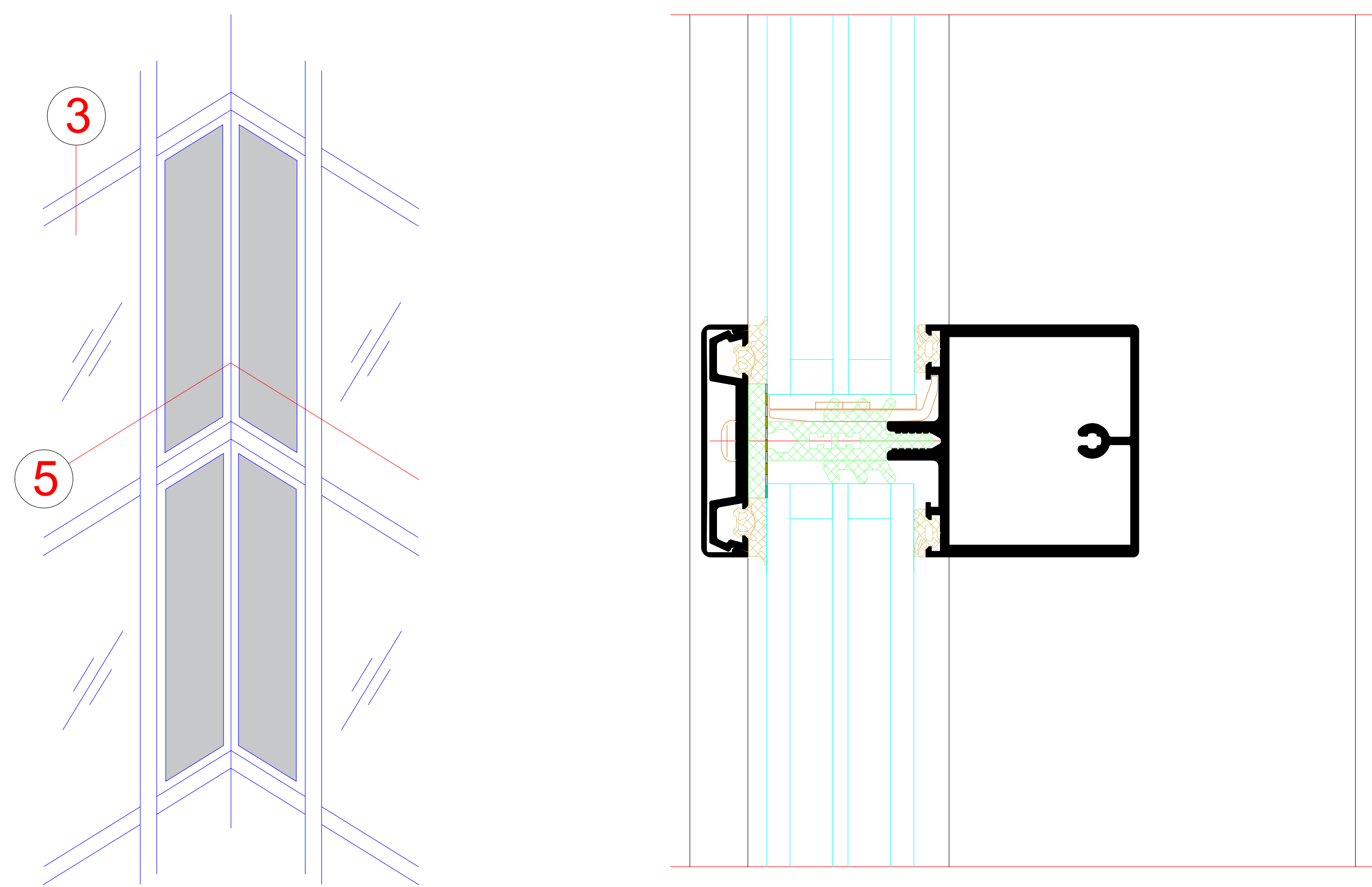
Panel



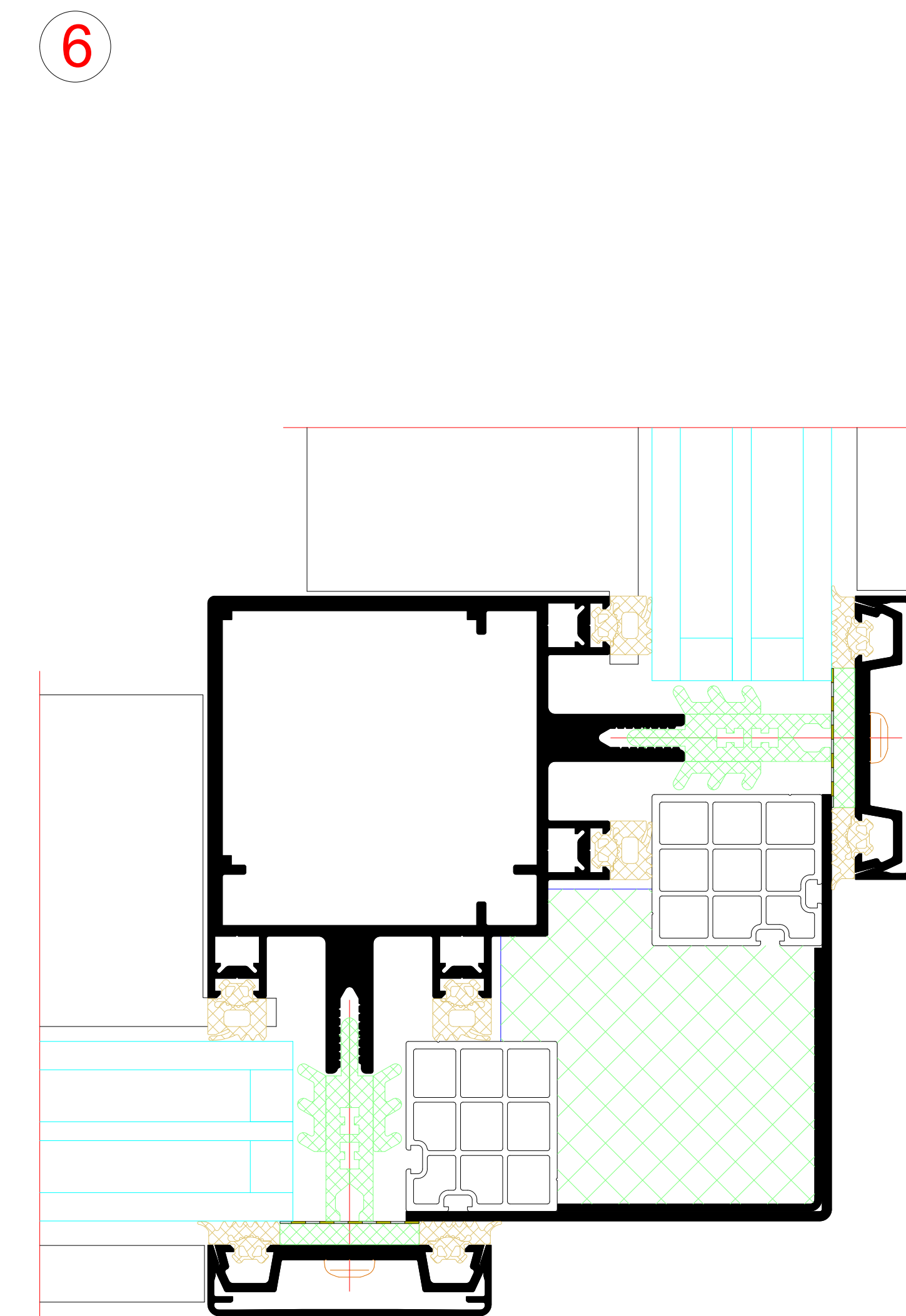
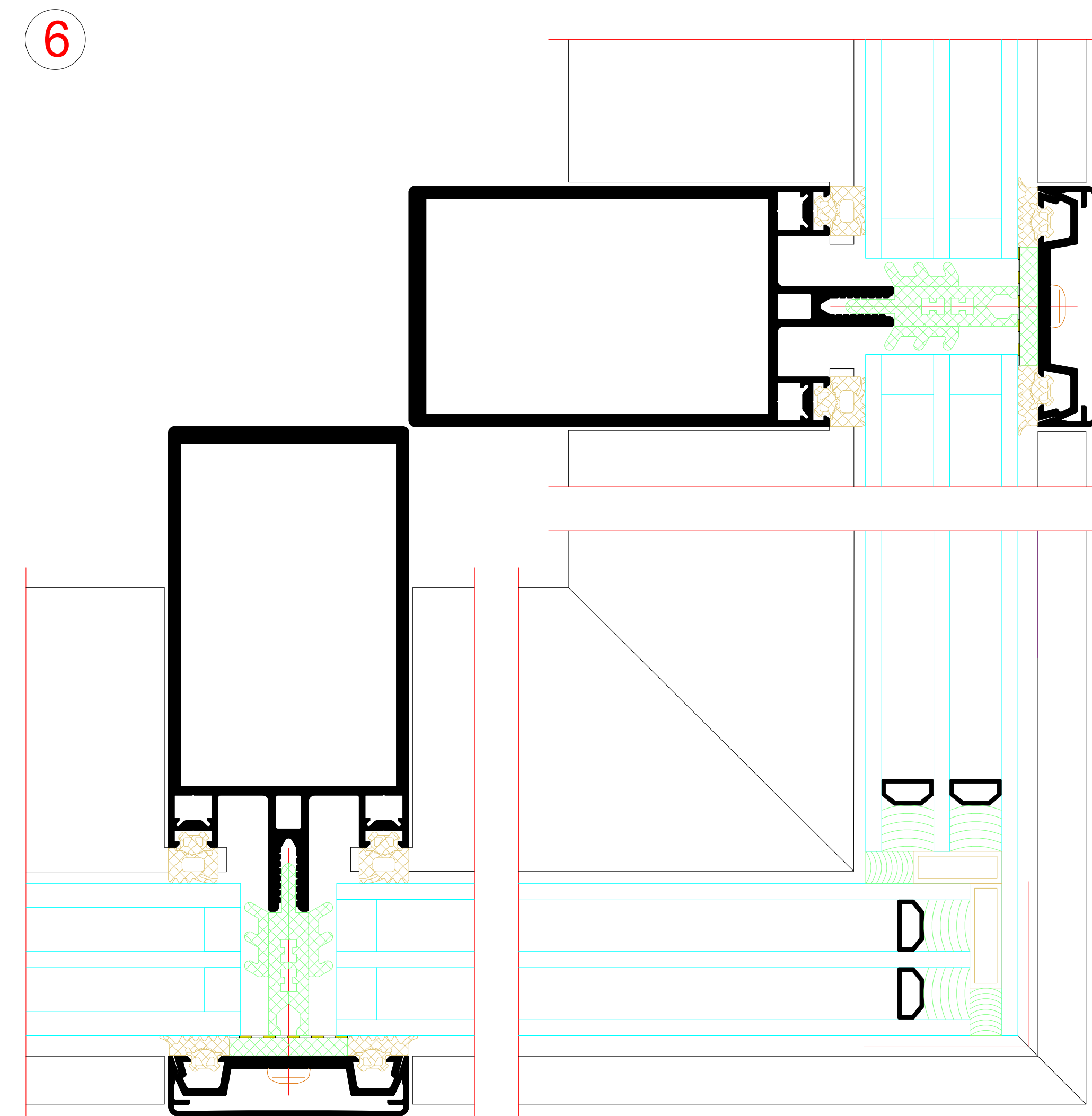
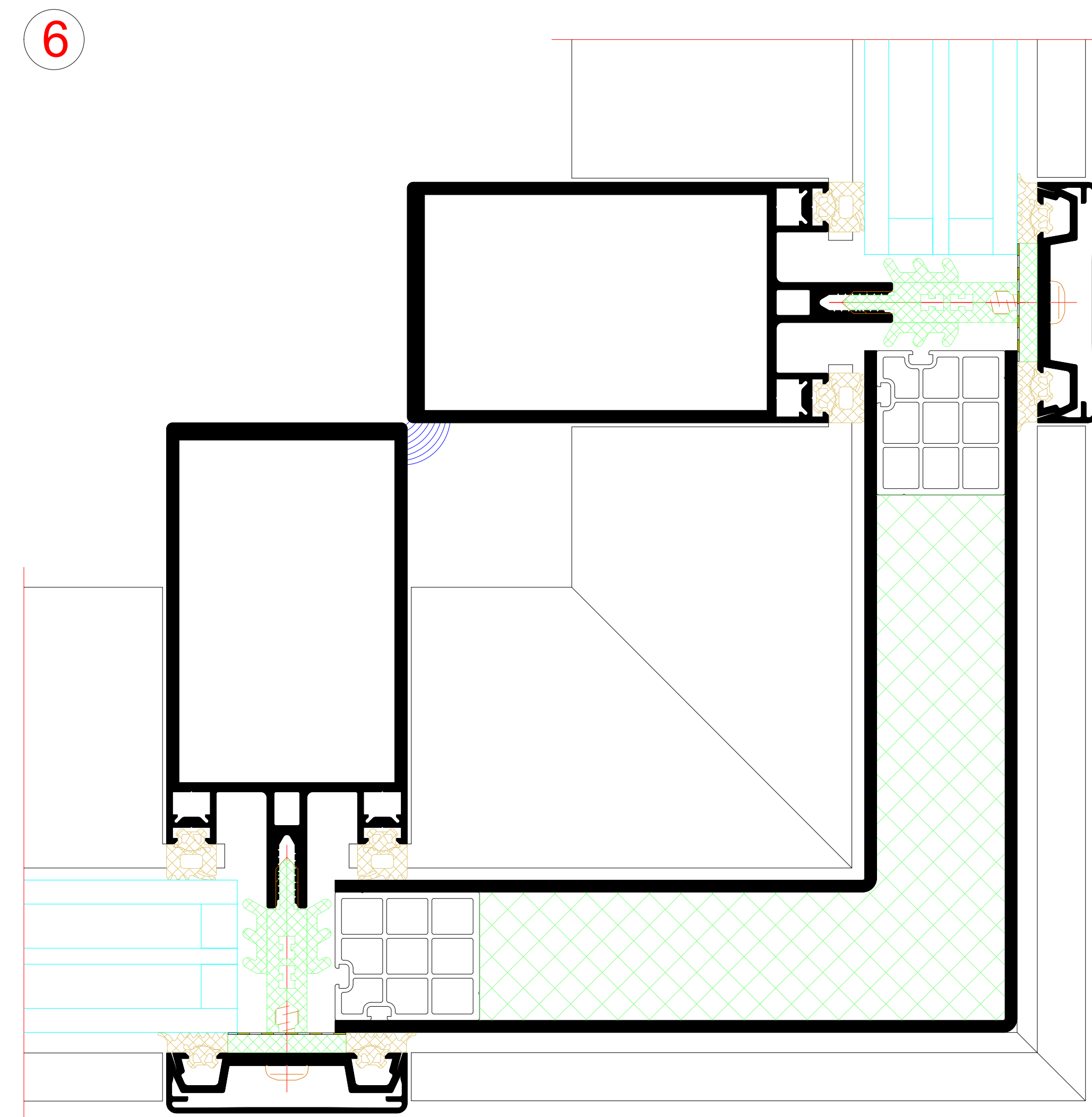
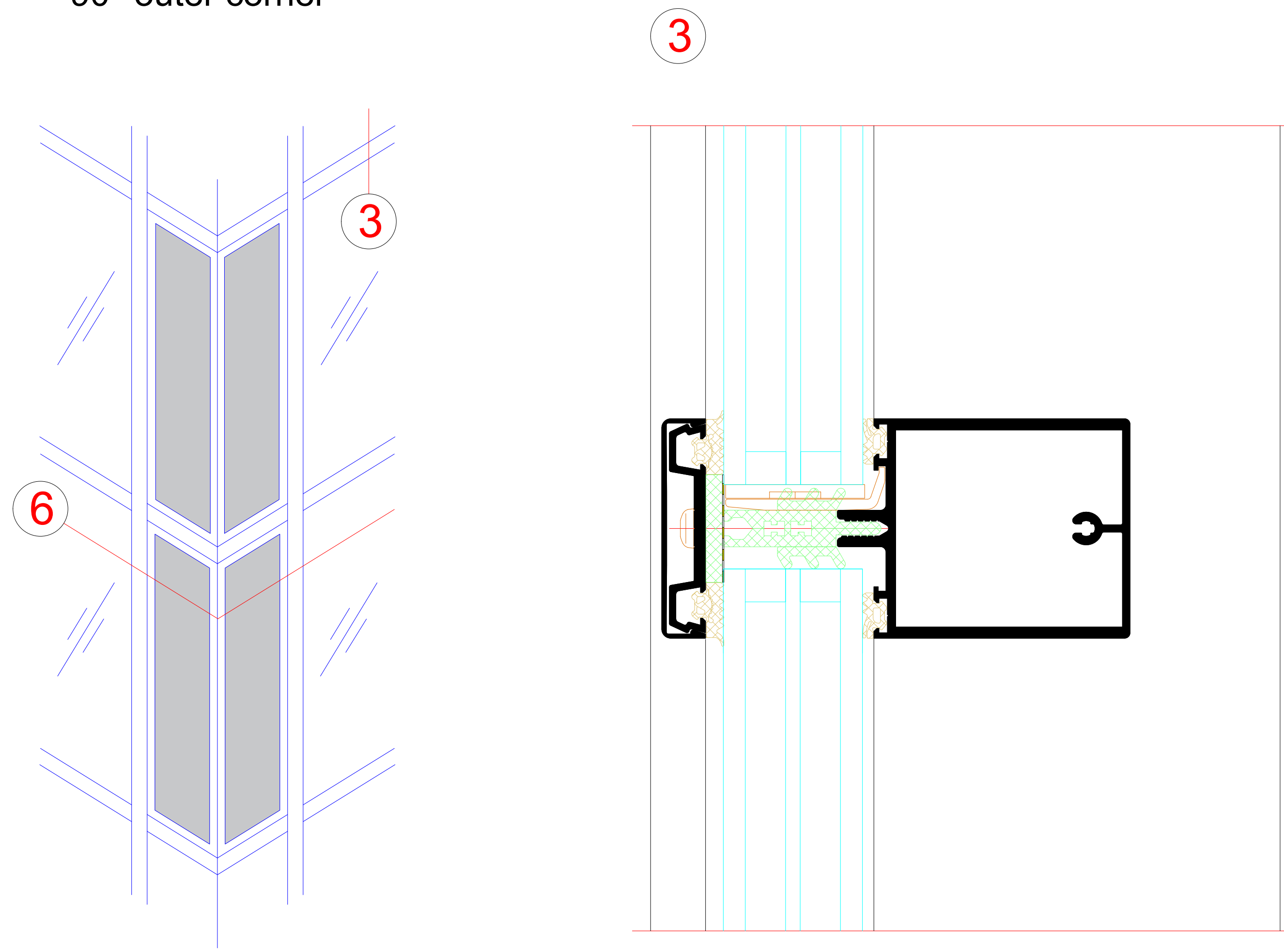
Festverglasung
Fixed glazing

[illegible]

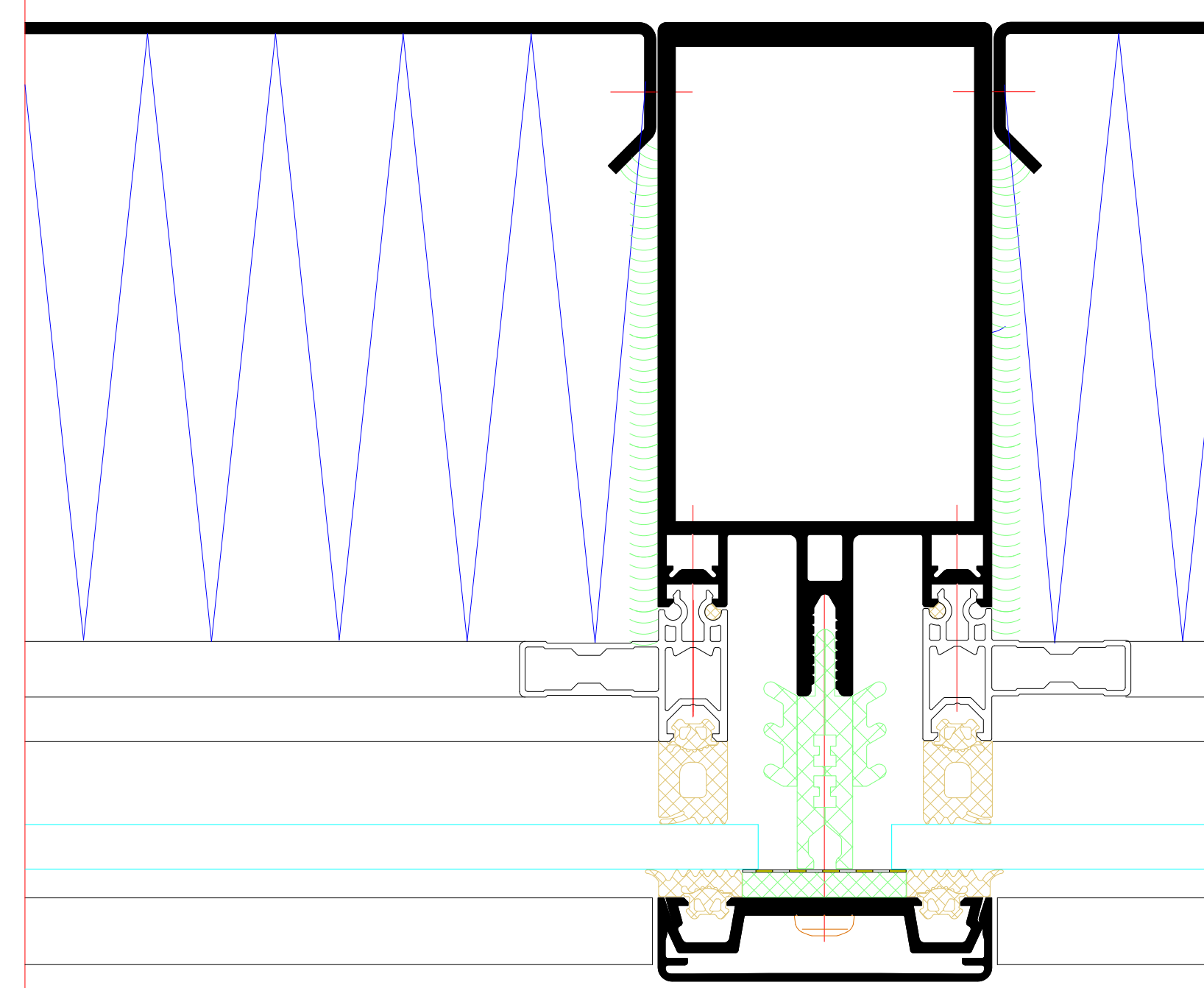
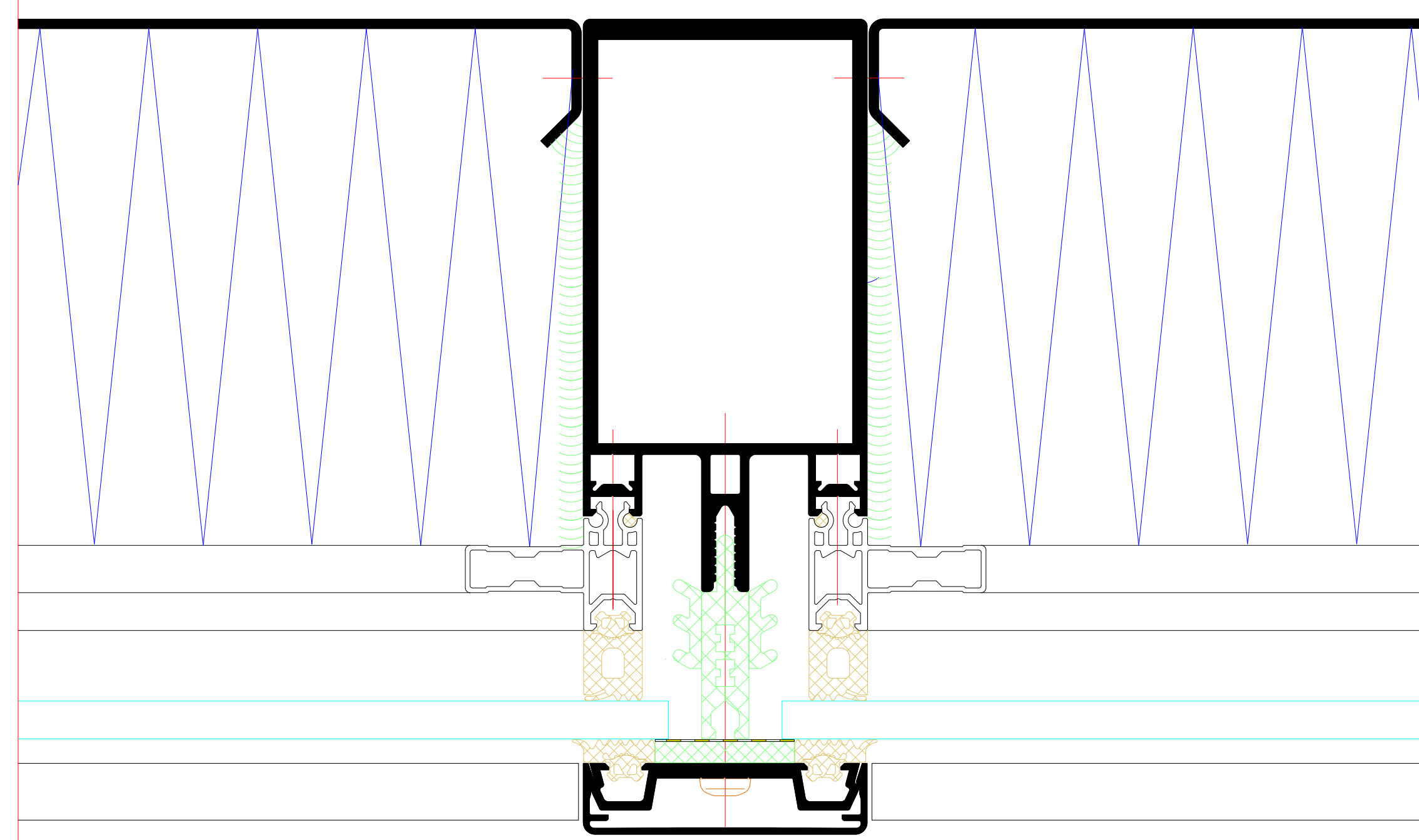
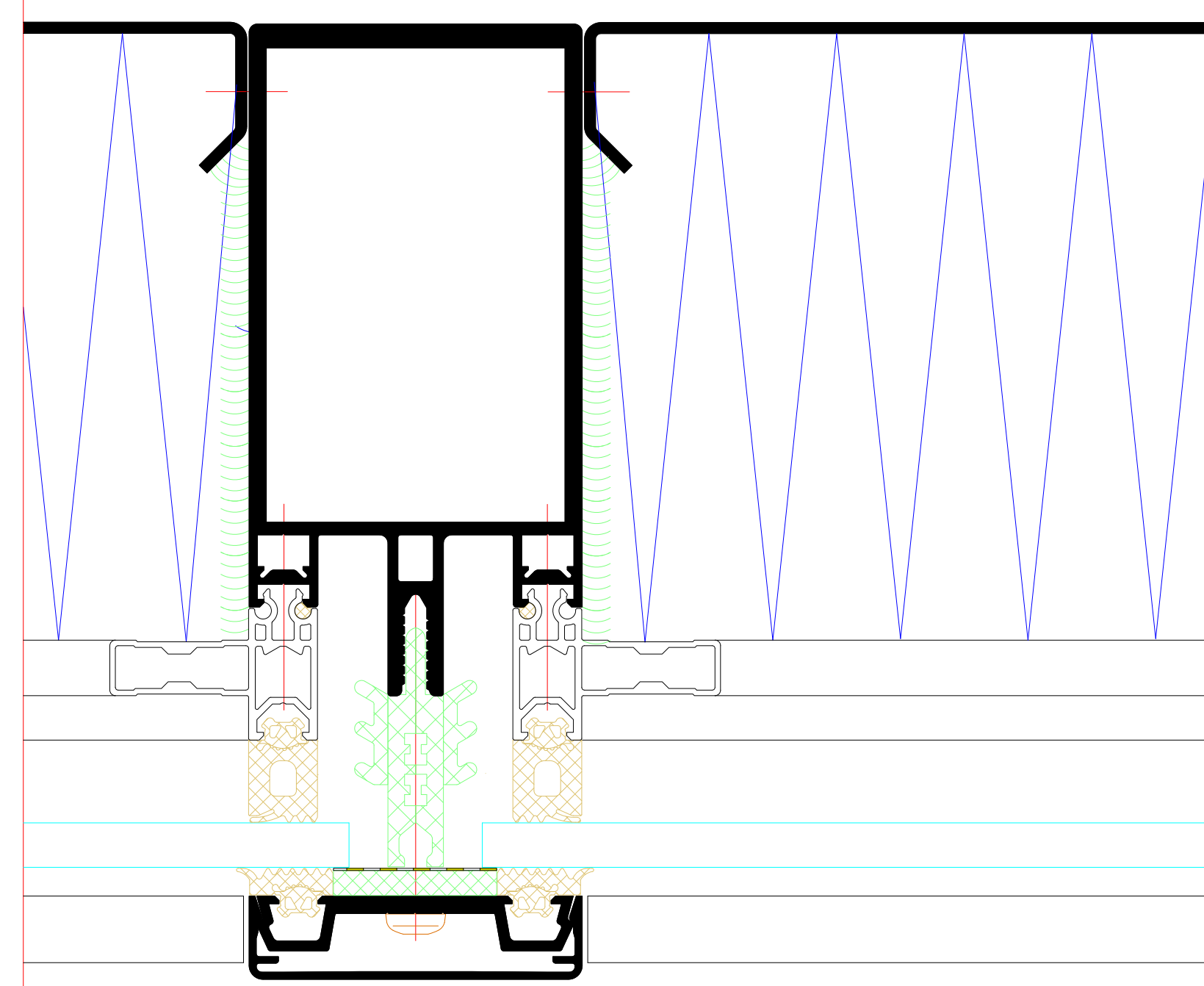
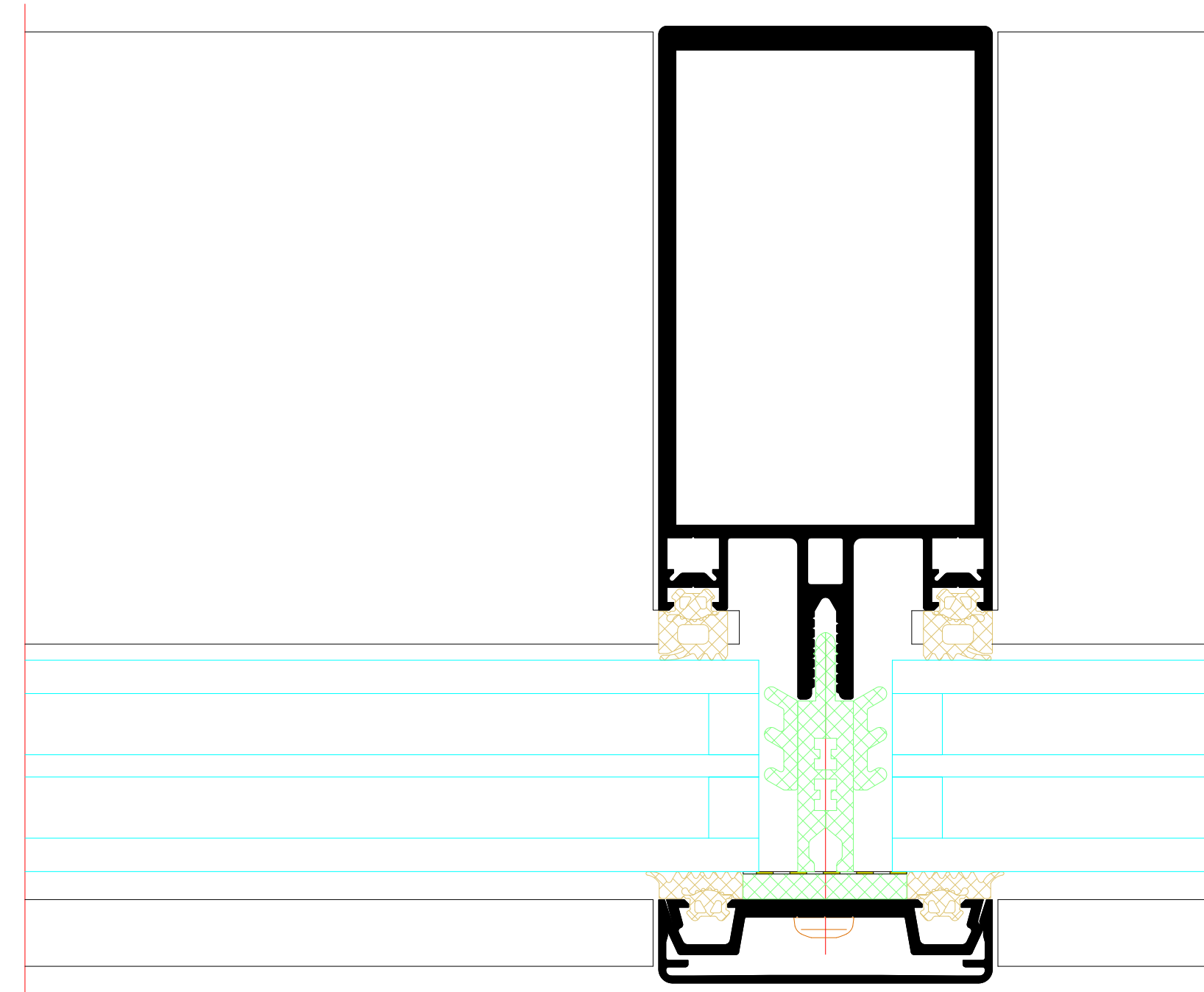
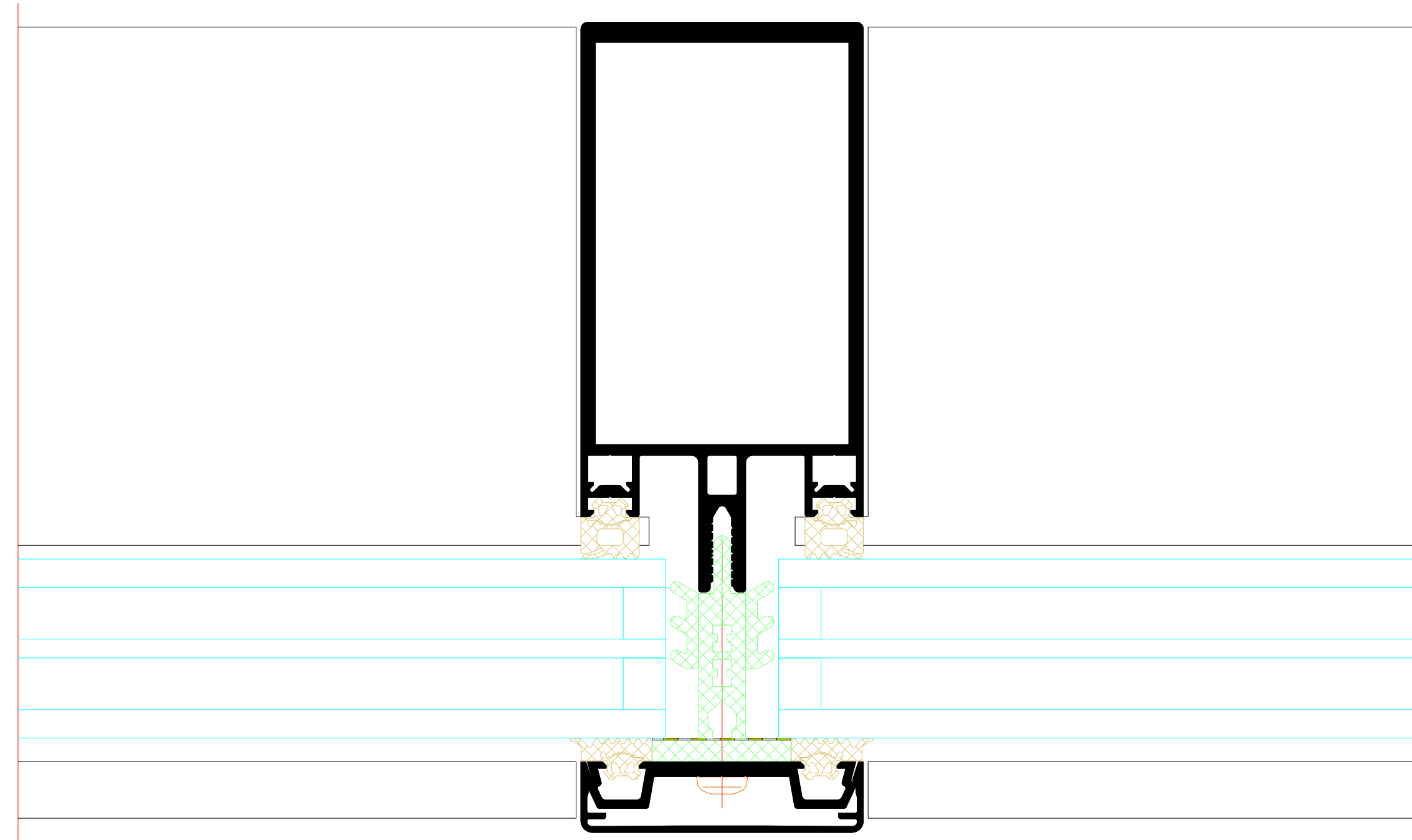
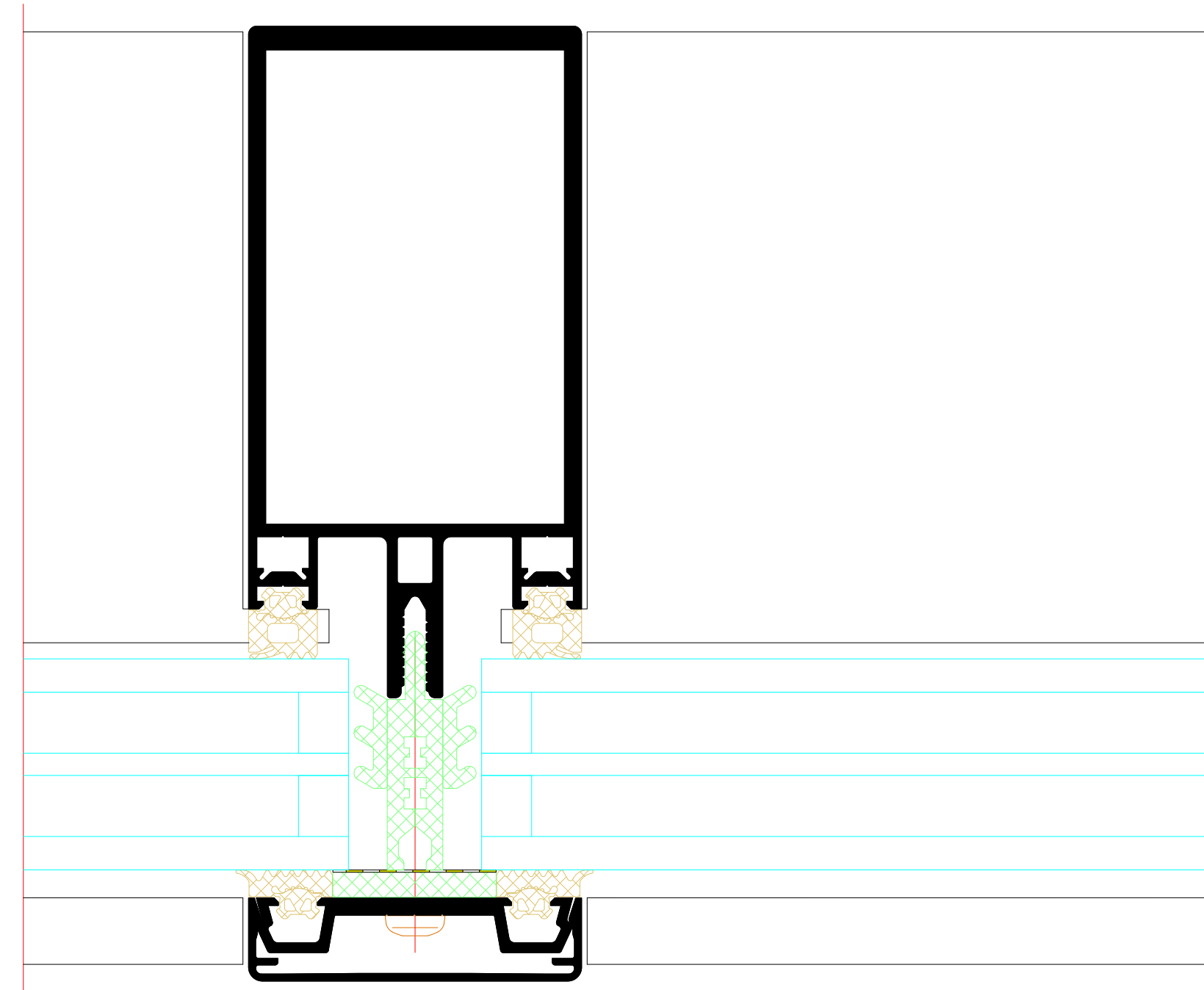
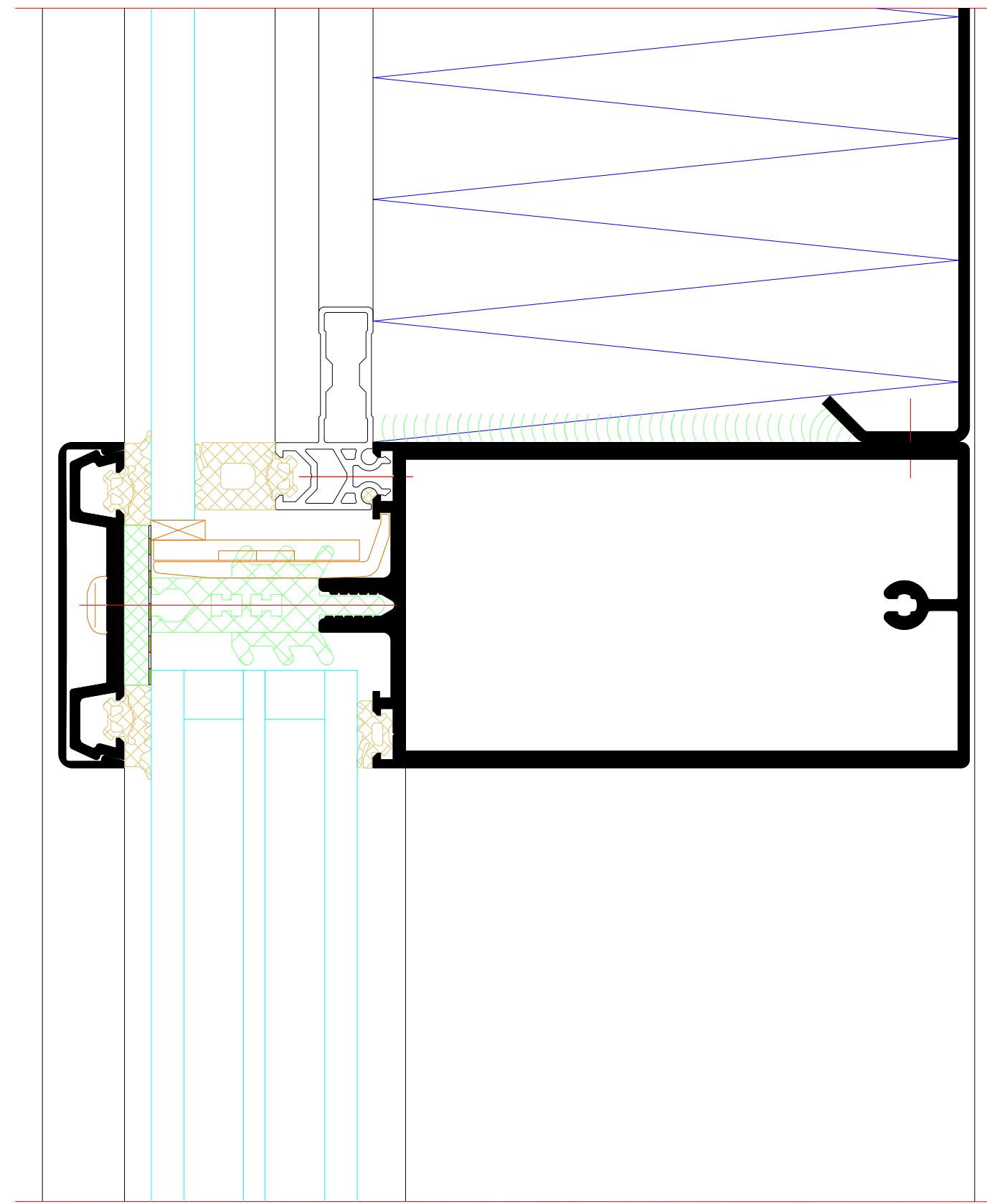
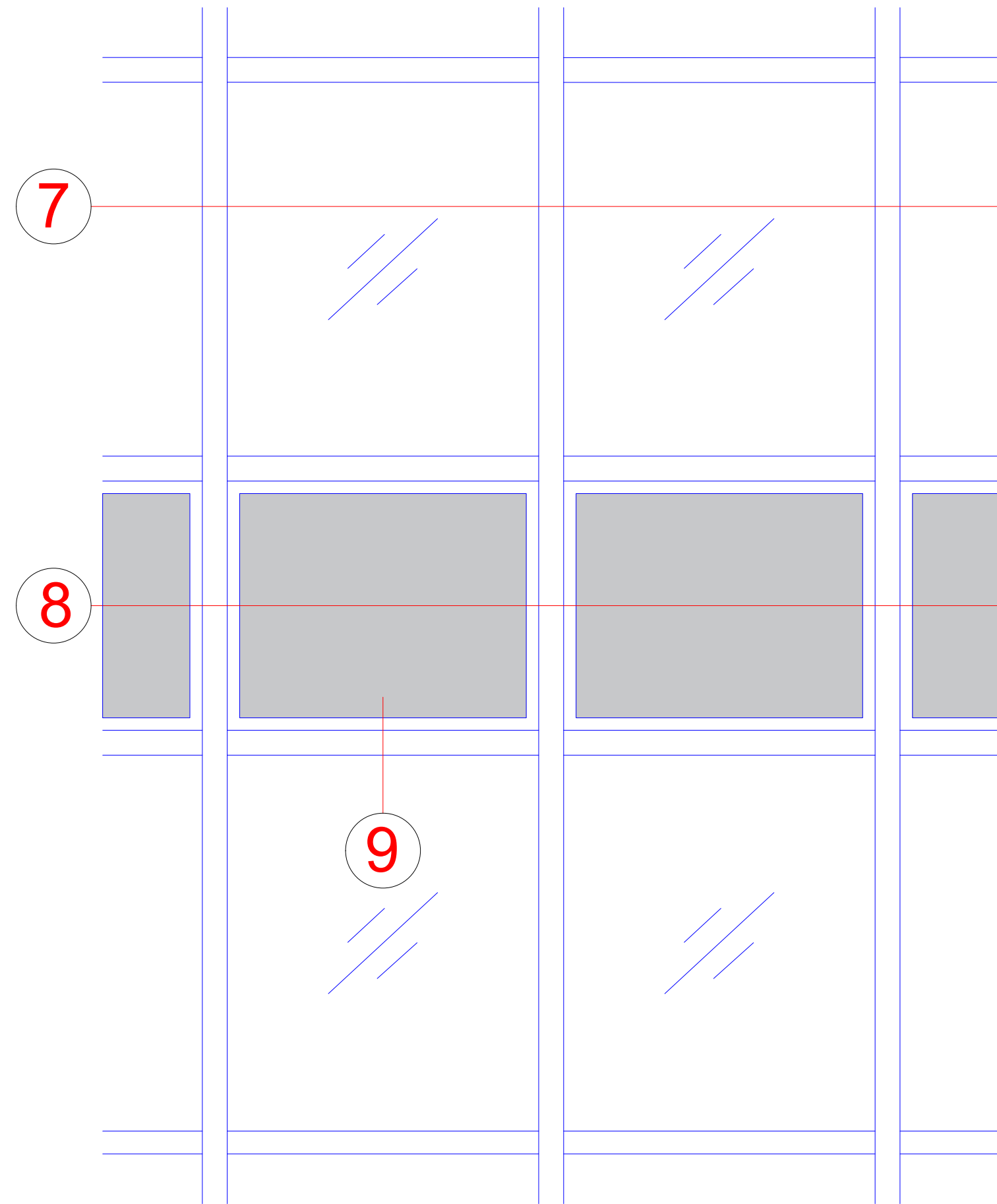
90° Innenecke
90° inner corner



90° Außenecke
90° outer corner

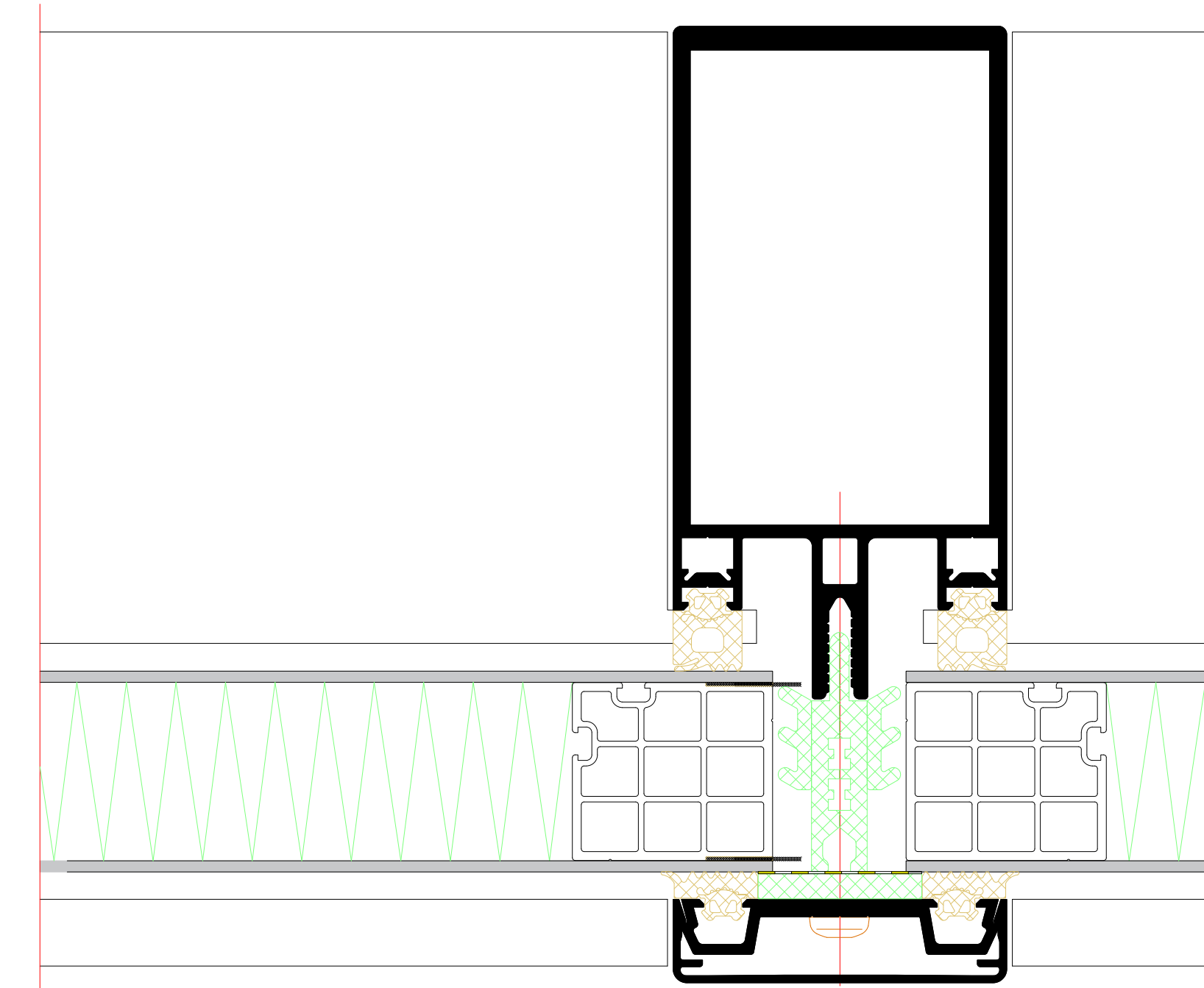
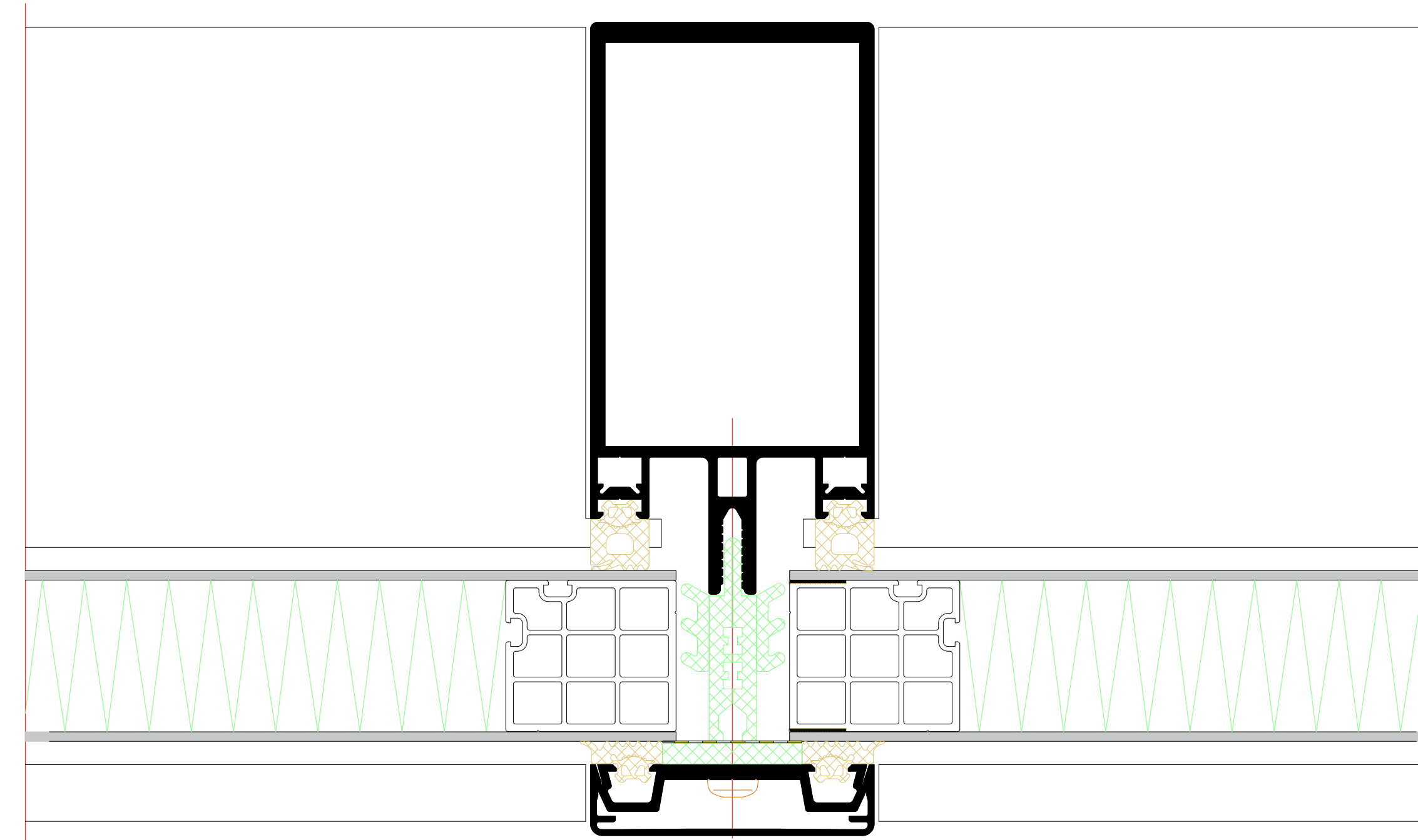
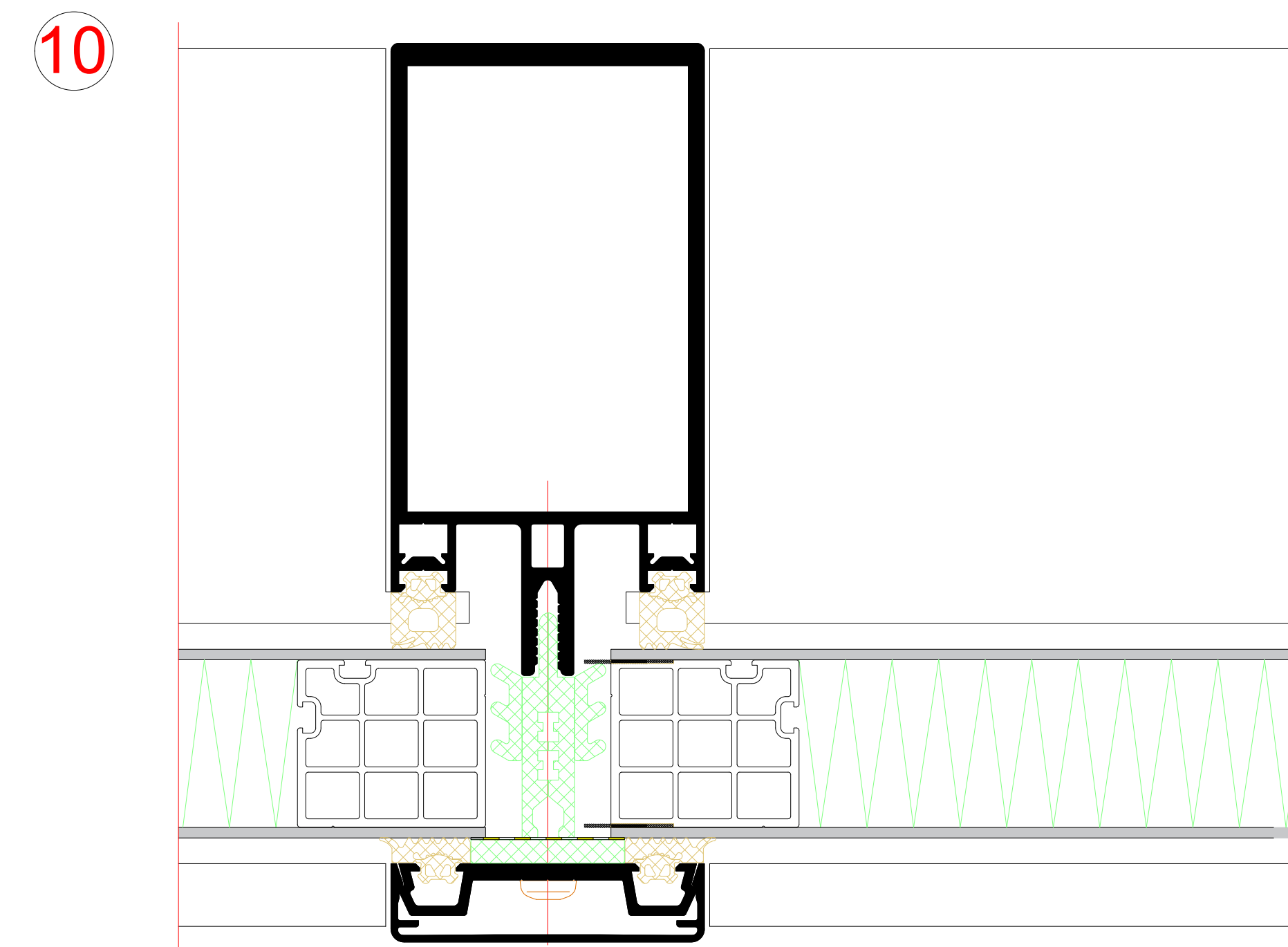
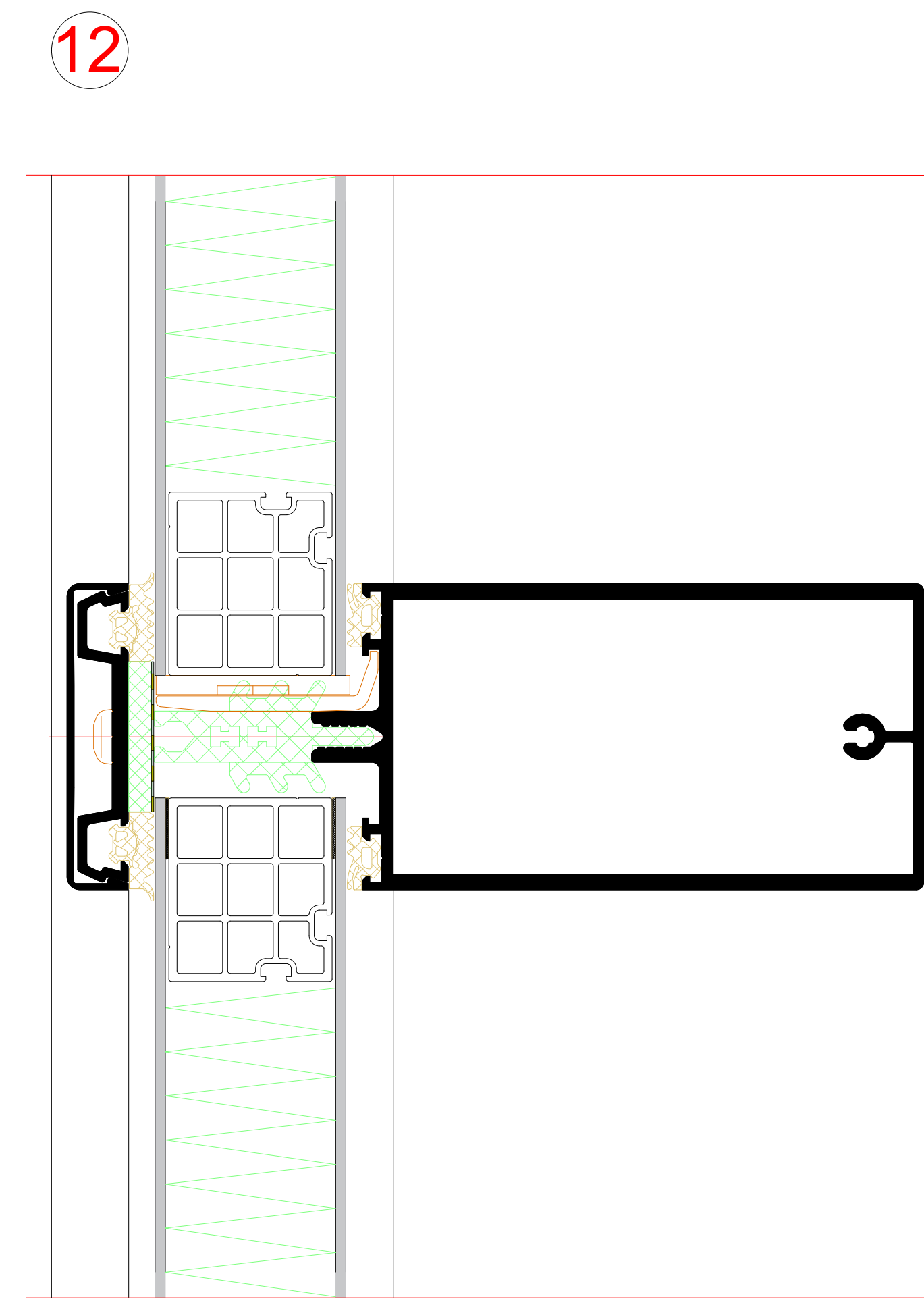
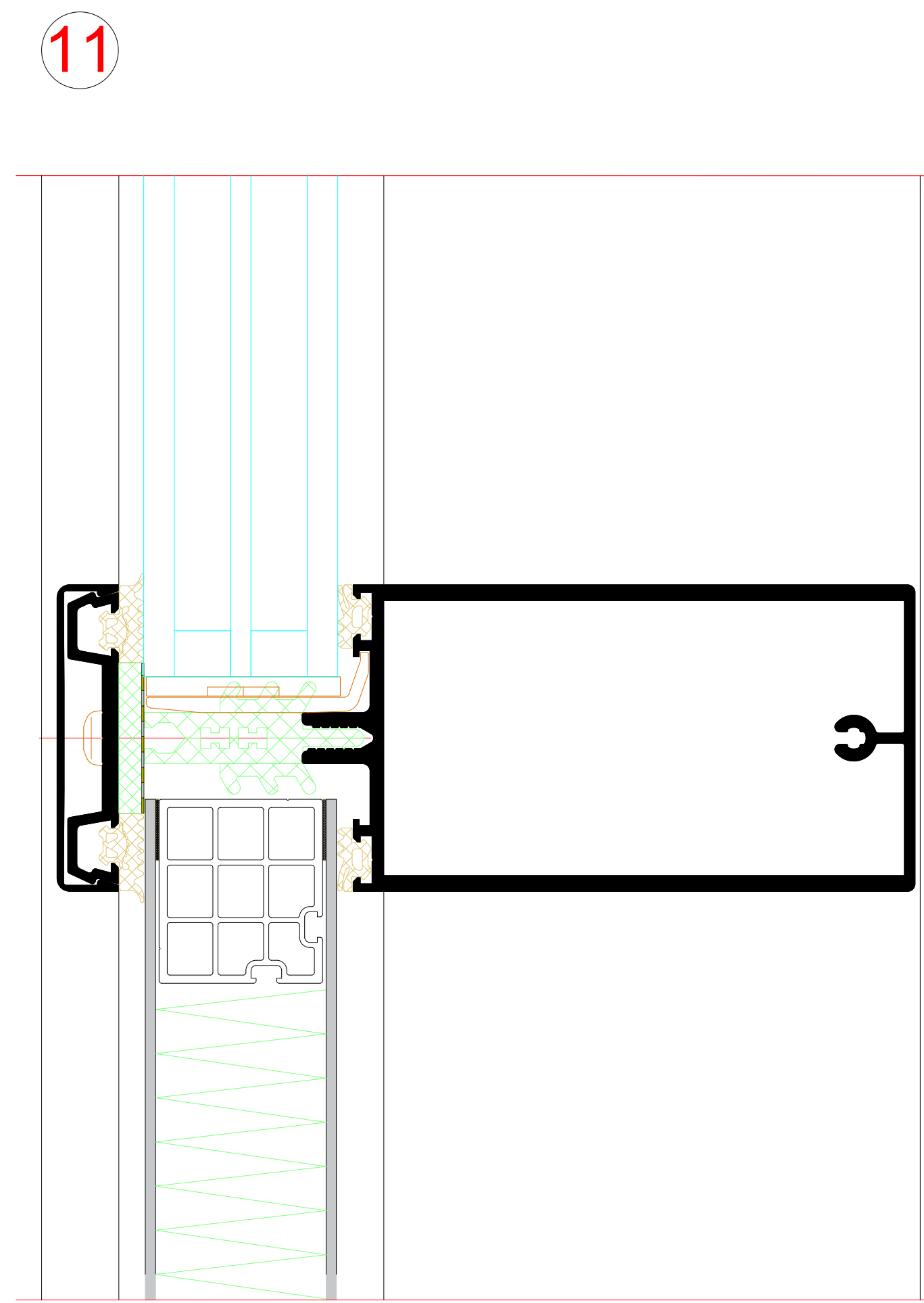
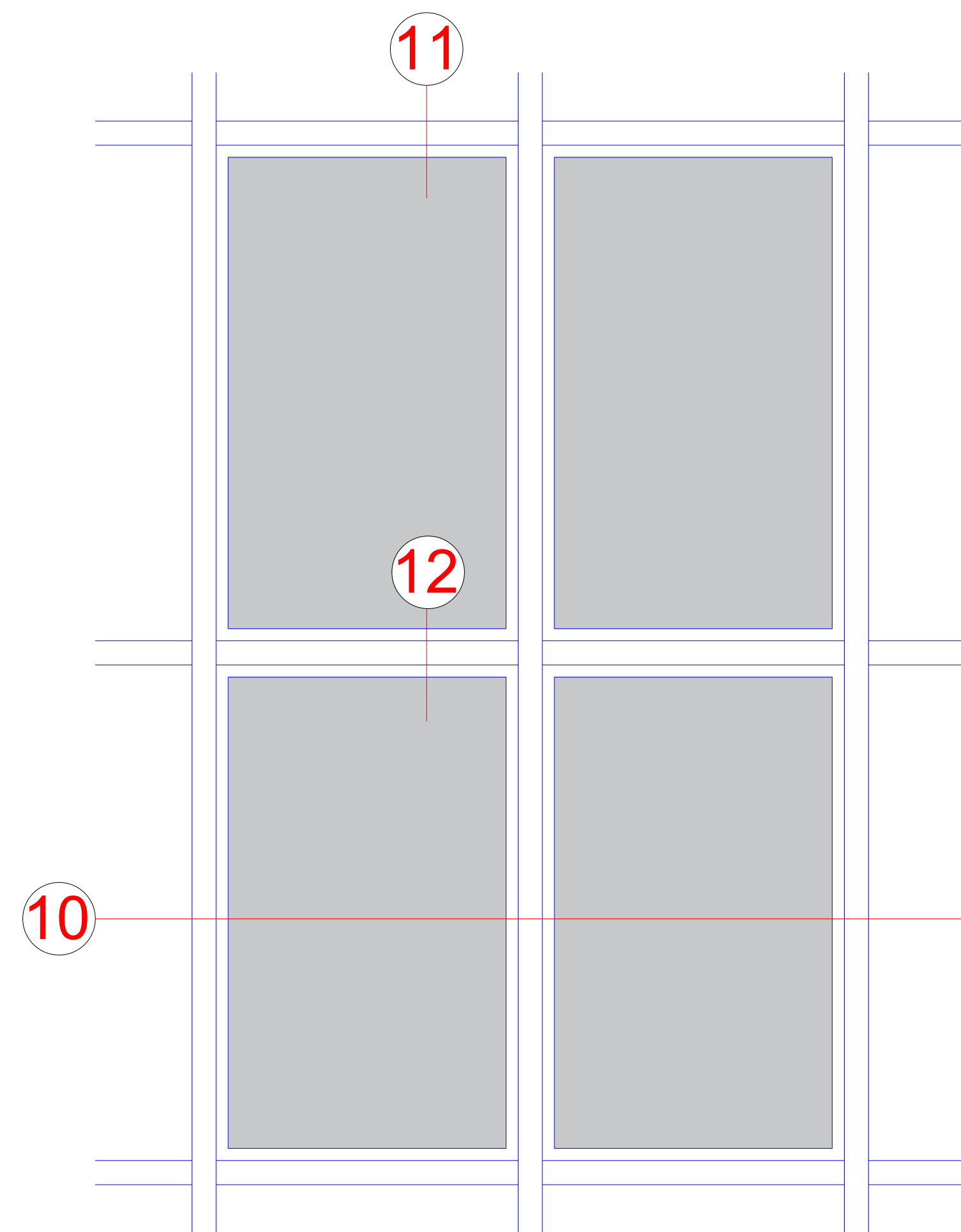
[illegible]

9

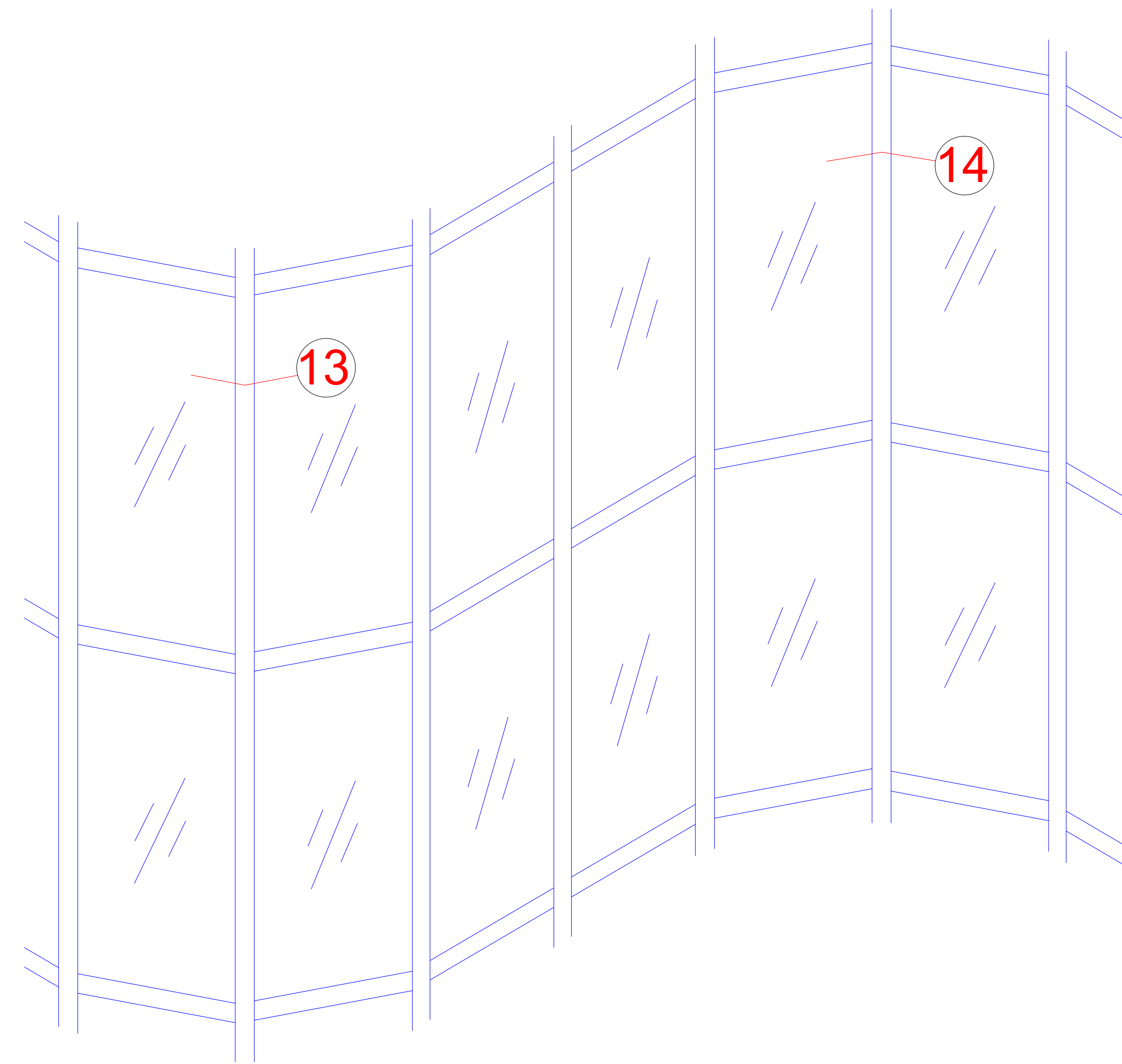


1							
2							
3	12/19	REDESSING		12/20/2019	12/20/2019	12/20/2019	12/20/2019
4	12/21	CHANGE		12/21/2019	12/21/2019	12/21/2019	12/21/2019
5	12/22			12/22/2019	12/22/2019	12/22/2019	12/22/2019
6	12/23			12/23/2019	12/23/2019	12/23/2019	12/23/2019
7	12/24			12/24/2019	12/24/2019	12/24/2019	12/24/2019
8	12/25			12/25/2019	12/25/2019	12/25/2019	12/25/2019
9	12/26			12/26/2019	12/26/2019	12/26/2019	12/26/2019
10	12/27			12/27/2019	12/27/2019	12/27/2019	12/27/2019
11	12/28			12/28/2019	12/28/2019	12/28/2019	12/28/2019
12	12/29			12/29/2019	12/29/2019	12/29/2019	12/29/2019
13	12/30			12/30/2019	12/30/2019	12/30/2019	12/30/2019
14	12/31			12/31/2019	12/31/2019	12/31/2019	12/31/2019
15	1/1			1/1/2020	1/1/2020	1/1/2020	1/1/2020
16	1/2			1/2/2020	1/2/2020	1/2/2020	1/2/2020
17	1/3			1/3/2020	1/3/2020	1/3/2020	1/3/2020
18	1/4			1/4/2020	1/4/2020	1/4/2020	1/4/2020
19	1/5			1/5/2020	1/5/2020	1/5/2020	1/5/2020
20	1/6			1/6/2020	1/6/2020	1/6/2020	1/6/2020
21	1/7			1/7/2020	1/7/2020	1/7/2020	1/7/2020
22	1/8			1/8/2020	1/8/2020	1/8/2020	1/8/2020
23	1/9			1/9/2020	1/9/2020	1/9/2020	1/9/2020
24	1/10			1/10/2020	1/10/2020	1/10/2020	1/10/2020
25	1/11			1/11/2020	1/11/2020	1/11/2020	1/11/2020
26	1/12			1/12/2020	1/12/2020	1/12/2020	1/12/2020
27	1/13			1/13/2020	1/13/2020	1/13/2020	1/13/2020
28	1/14			1/14/2020	1/14/2020	1/14/2020	1/14/2020
29	1/15			1/15/2020	1/15/2020	1/15/2020	1/15/2020
30	1/16			1/16/2020	1/16/2020	1/16/2020	1/16/2020
31	1/17			1/17/2020	1/17/2020	1/17/2020	1/17/2020
32	1/18			1/18/2020	1/18/2020	1/18/2020	1/18/2020
33	1/19			1/19/2020	1/19/2020	1/19/2020	1/19/2020
34	1/20			1/20/2020	1/20/2020	1/20/2020	1/20/2020
35	1/21			1/21/2020	1/21/2020	1/21/2020	1/21/2020
36	1/22			1/22/2020	1/22/2020	1/22/2020	1/22/2020
37	1/23			1/23/2020	1/23/2020	1/23/2020	1/23/2020
38	1/24			1/24/2020	1/24/2020	1/24/2020	1/24/2020
39	1/25			1/25/2020	1/25/2020	1/25/2020	1/25/2020
40	1/26			1/26/2020	1/26/2020	1/26/2020	1/26/2020
41	1/27			1/27/2020	1/27/2020	1/27/2020	1/27/2020
42	1/28			1/28/2020	1/28/2020	1/28/2020	1/28/2020
43	1/29			1/29/2020	1/29/2020	1/29/2020	1/29/2020
44	1/30			1/30/2020	1/30/2020	1/30/2020	1/30

Panel
Panel

[illegible]

Faceting



Technical information

Tests and standards

Wärmedämmung *	Uf = 0,69 -2,6 W/(m²K)
Thermal insulation	
Luftschalldämmung nach EN ISO 717-1 **	bis Rw 48 dB
Airborne sound insulation in accordance with EN ISO 717-1	Up to Rw 48 dB
Einbruchhemmung nach DIN V ENV 1627	Klasse WK3 / RC3
Burglar resistance in accordance with DIN V ENV 1627	Class WK3 / RC3
Luftdurchlässigkeit nach DIN EN 12152	Klasse AE
Air permeability in accordance with DIN EN 12152	Class AE
Schlagregendichtheit nach DIN EN 12155	Klasse RE 1200
Watertightness in accordance with DIN EN 12155	Class RE 1200
Windlastwiderstand nach EN 12179	2,0 - 3,0 kN/m²
Wind load resistance in accordance with EN 12179	
Stoßfestigkeit DIN EN 14019, Belastung von innen / außen	Klasse I5 / E5
Impact resistance DIN EN 14019, load from inside / outside	Class I5 / E5

**** Objektbezogener Nachweis - wenn erforderlich**
Project-specific certification – if necessary

The information describes the optimum values of the entire system.
The properties of a selected design option or unit combination have to be determined individually based on the comprehensive test documentation.

Segmentierung
Faceting

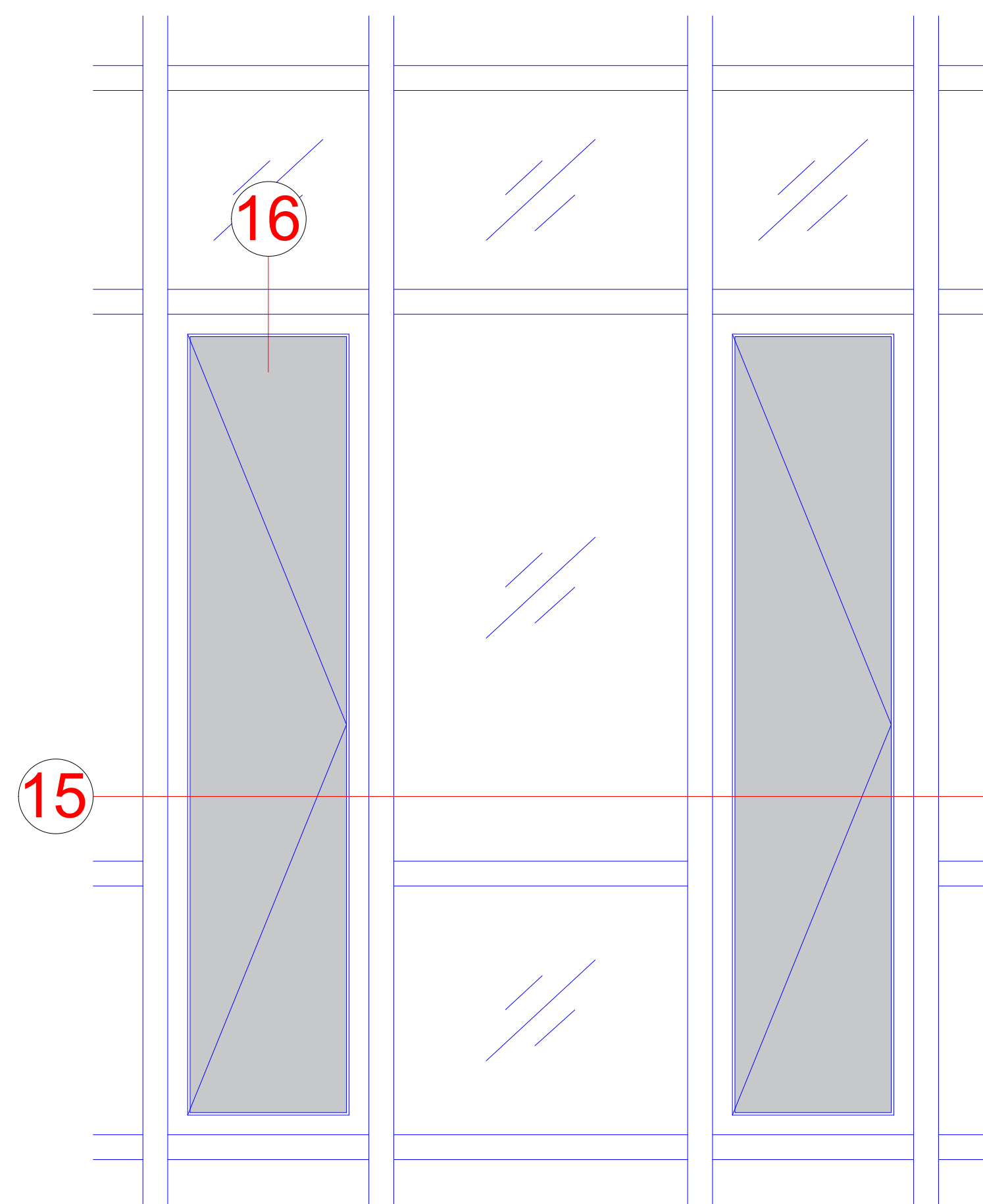
The diagram illustrates the process of faceting a plot into segments. It shows a grid of segments, with two segments highlighted and numbered: segment 13 (top left) and segment 14 (top right). The segments are separated by vertical lines, and the highlighted segments are marked with red circles and numbers. The segments are arranged in a grid, with the highlighted segments being the top-left and top-right ones.

A detailed technical cross-section diagram of a window assembly. The diagram shows a vertical window frame with a large glass pane. The frame is composed of multiple parts, including a top rail, side rails, and a bottom rail. The glass is held in place by a gasket and is surrounded by a multi-layered seal system. The diagram illustrates the various components that contribute to the window's performance, including the frame, glass, seals, and insulation. The diagram is a technical drawing, likely a patent or a technical manual, showing the internal structure of the window.

This technical drawing illustrates a cross-section of a roof truss. The central vertical element is a truss member, shown in black. It is supported by two diagonal bracing members, also in black. The roof structure is composed of several layers: a top layer of insulation (yellow hatched), a middle layer of structural material (light blue hatched), and a bottom layer of insulation (green hatched). The roof is supported by a base structure (black) which includes a central vertical support and two side supports. The entire structure is shown within a triangular frame defined by red lines, representing the roof's slope. A yellow line indicates the base of the roof structure.

A detailed technical cross-section diagram of a window assembly. The diagram shows a black frame holding a large glass pane. Below the glass, there is a complex assembly of seals and insulation. A central vertical channel is filled with a green cross-hatched material, likely insulation. This channel is flanked by two side channels containing a yellow cross-hatched material. The entire assembly is supported by a base structure with a red line indicating a specific layer or seal. The diagram is set against a background of red and blue lines, possibly representing the wall or surrounding structure.

Lüftungsflügel Riva AWS 75 VV.SI+
Riva AWS 75 VV.SI+ ventilation vent



Technische Informationen Riva AWS 75 VV.SI+
Technical information about Riva AWS 75 VV.SI+

Prüfungen und Normen **

Tests and standards

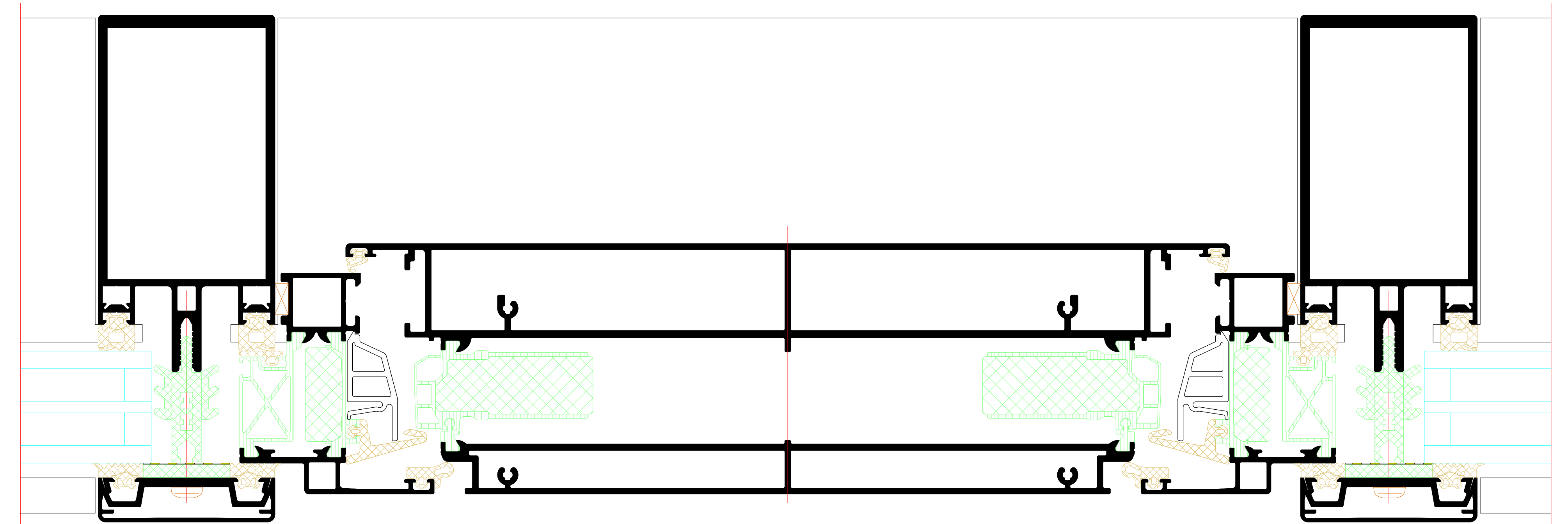
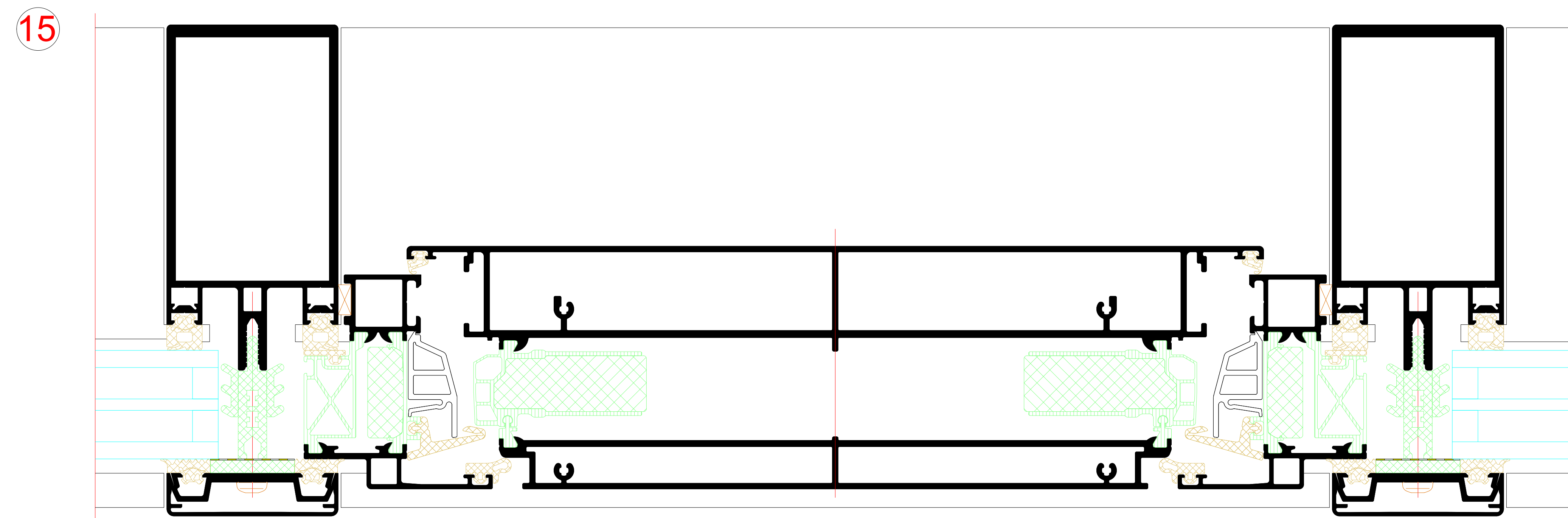
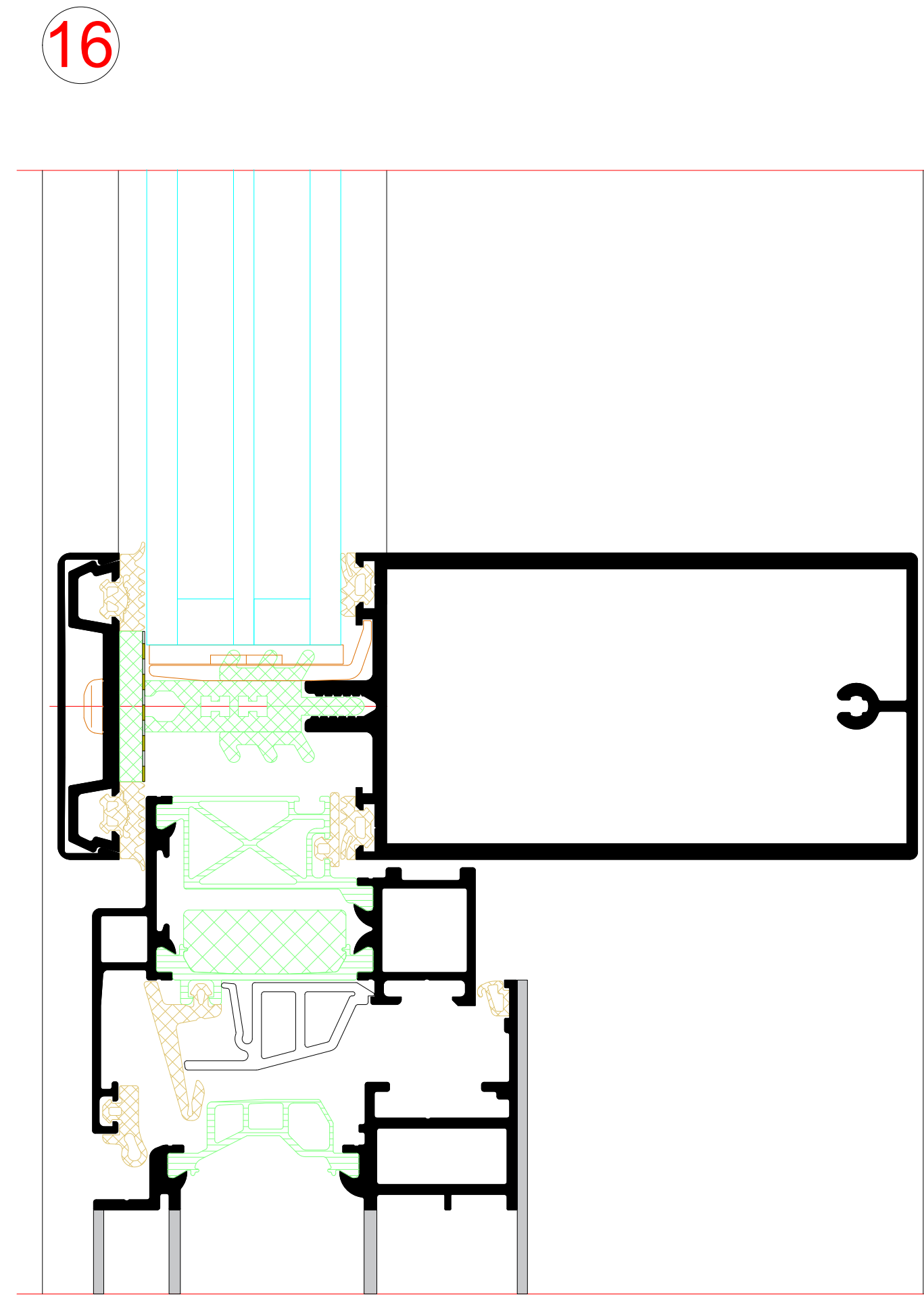
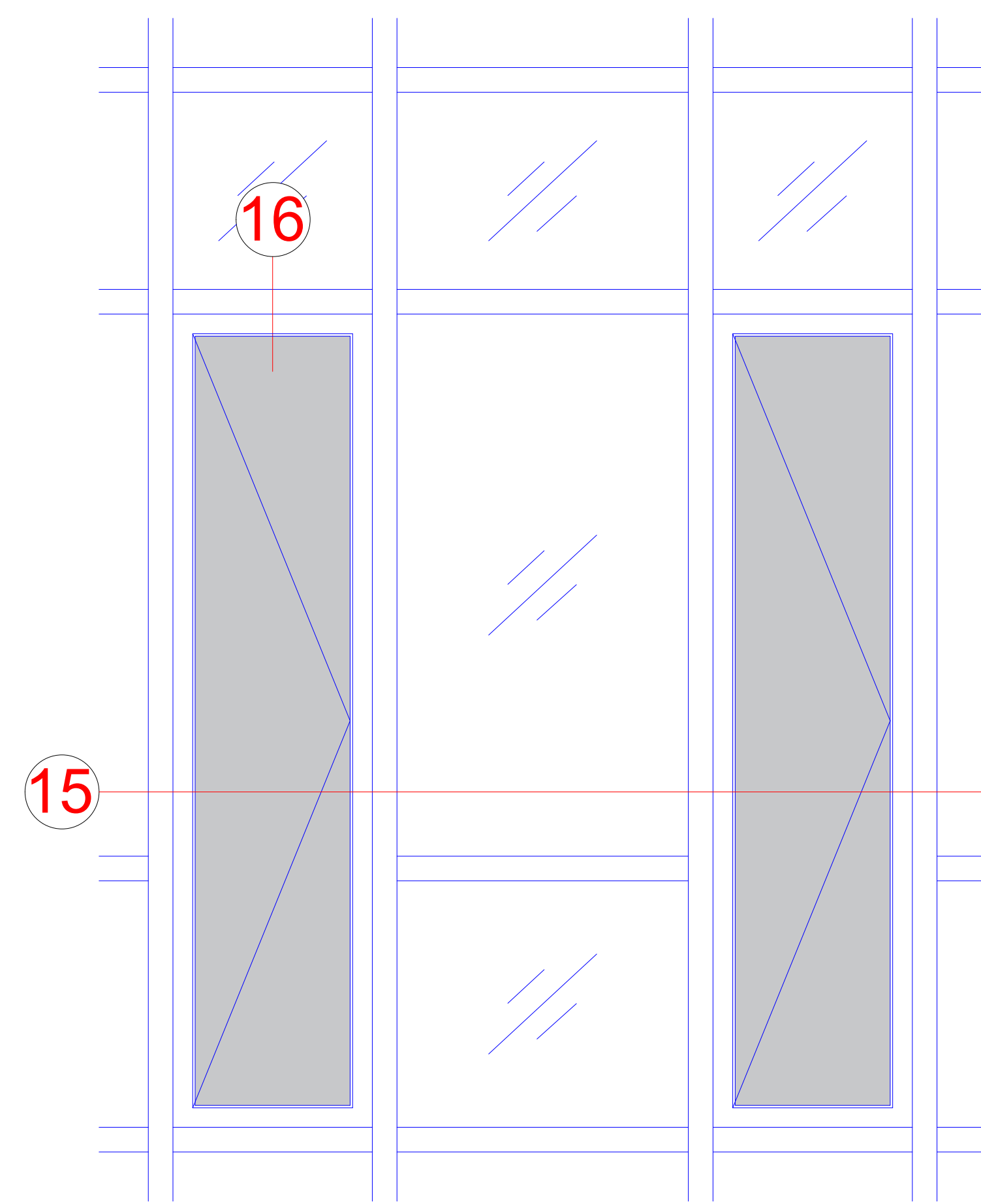
Wärmedämmung nach DIN EN ISO 1077-2	bis $U_w = 1,0 \text{ W}/(\text{m}^2\text{K})$
Thermal insulation in accordance with DIN EN ISO 1077-2	To $U_w = 1.0 \text{ W}/(\text{m}^2\text{K})$
Schalldämmung nach DIN EN ISO 140-3	$\leq 46 \text{ dB}$
Sound reduction in accordance with DIN EN ISO 140-3	
Einbruchhemmung nach DIN V ENV 1627	Klasse RC 2
Burglar resistance in accordance with DIN V ENV 1627	Class RC 2
Luftdurchlässigkeit nach DIN EN 12207	Klasse 4
Air permeability in accordance with DIN EN 12207	Class 4
Schlagregendichtheit nach DIN EN 12208	Klasse 9a
Watertightness in accordance with DIN EN 12208	Class 9a
Windlastwiderstand nach DIN EN 12210*	Klasse C5/B5
Wind load resistance in accordance with DIN EN 12210	Class C5 / B5
Mechanische Beanspruchung nach DIN EN 13115	Klasse 4
Mechanical loading in accordance with DIN EN 13115	Class 4
Dauerfunktion nach DIN EN 12400	Klasse 3
Durability in accordance with DIN EN 12400	Class 3
Gebrauchssicherheit nach DIN EN 13126-5 (Öffnungsbegrenzer)	Klasse 2/0 + 3/0
Safety in use in accordance with DIN EN 13126-5 (limiting stay)	Class 2/0 + 3/0

- * Durchbiegungsverhalten profilabhängig
The amount of deflection will depend on the profile

****** Die Angaben beschreiben die Bestwerte des Gesamtsystems.
Die Eigenschaften einer jeweils gewählten Ausführungsvariante oder
Elementkombination sind im Einzelfall anhand der ausführlichen
Prüfdokumentation zu bestimmen.

The information describes the optimum values of the entire system.
The properties of a selected design option or unit combination have to be
determined individually based on the comprehensive test documentation.

Lüftungsflügel Riva AWS 75 VV.SI+
Riva AWS 75 VV.SI+ ventilation vent

[illegible]

Technical information about AWS 75 SI+

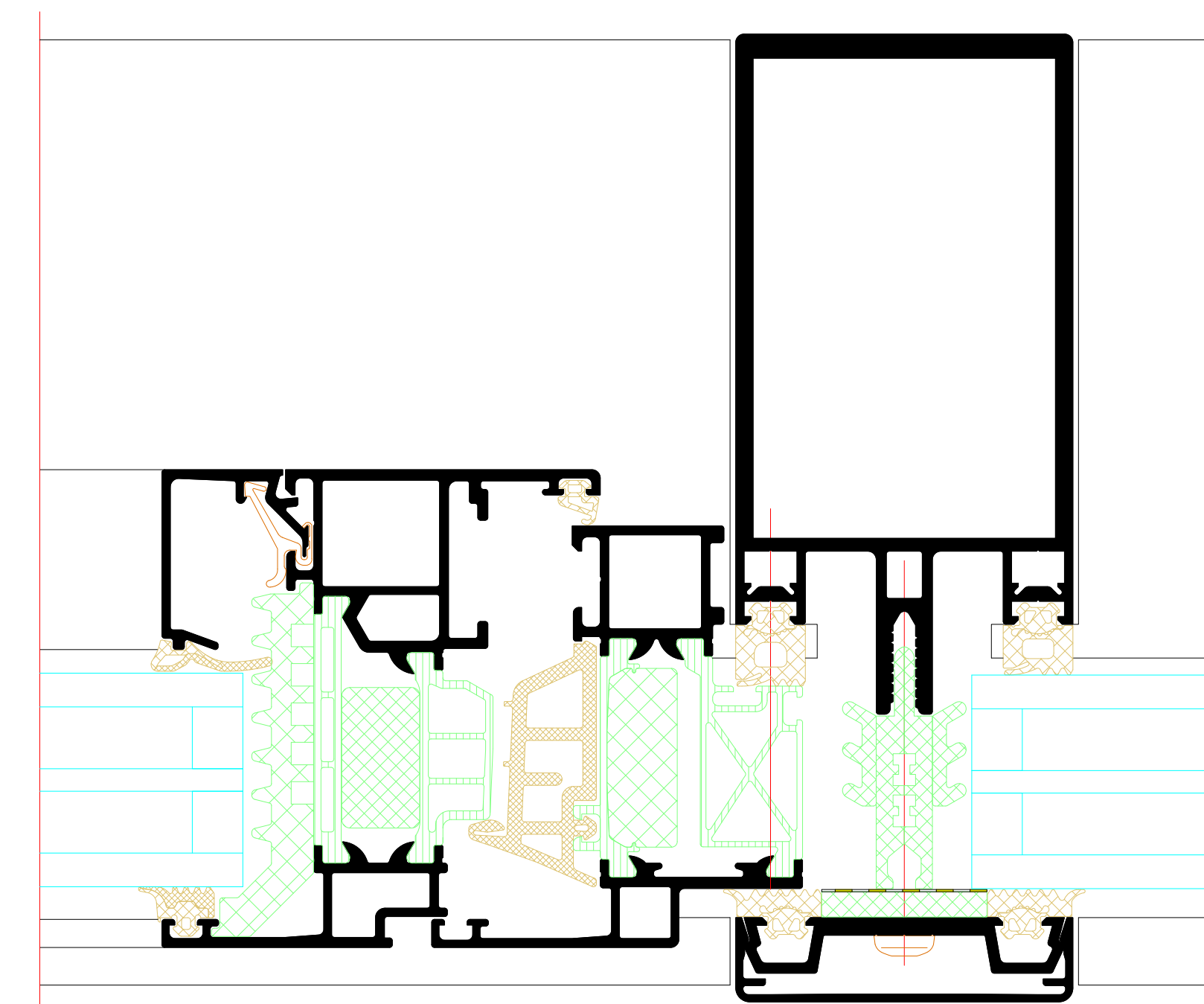
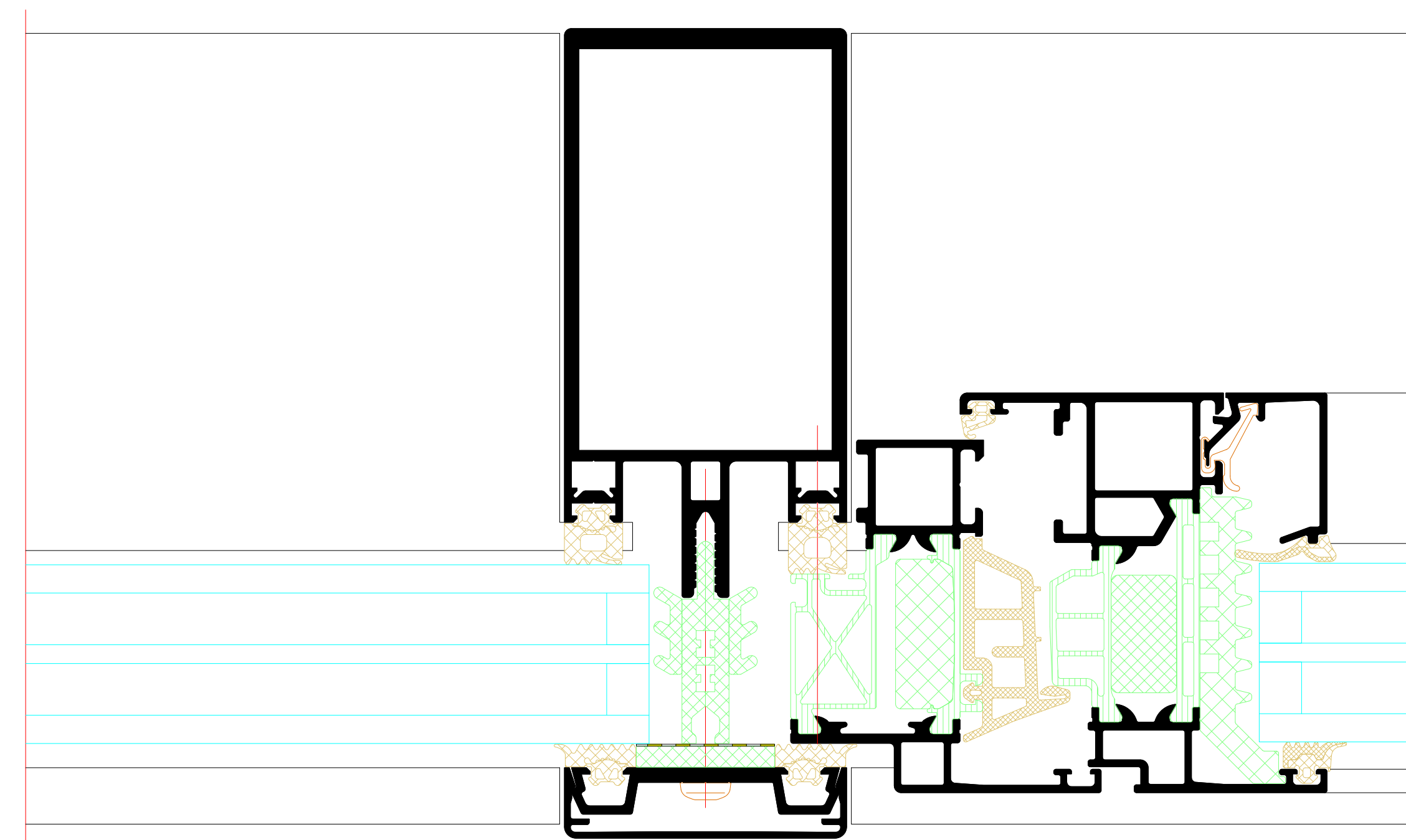
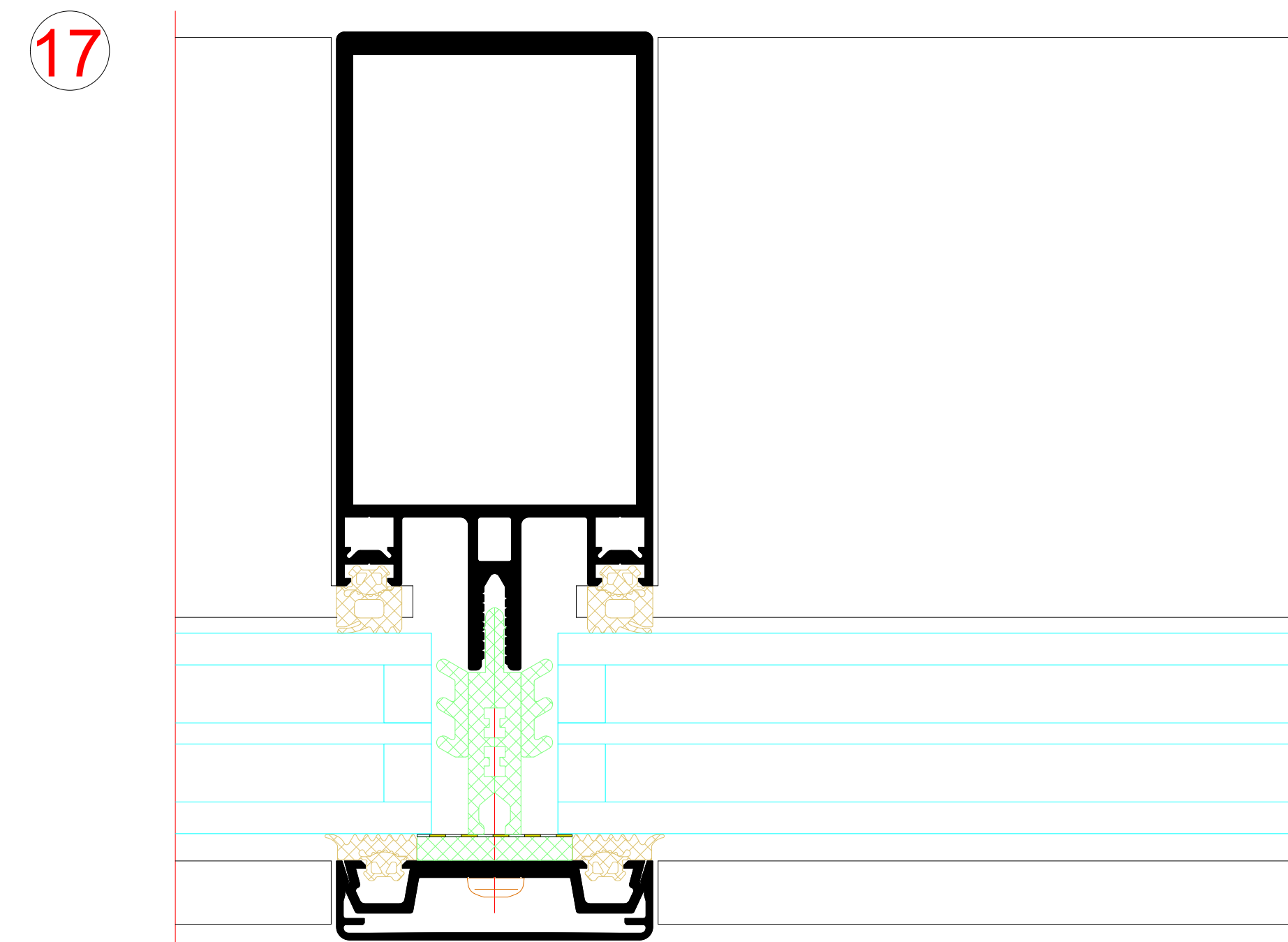
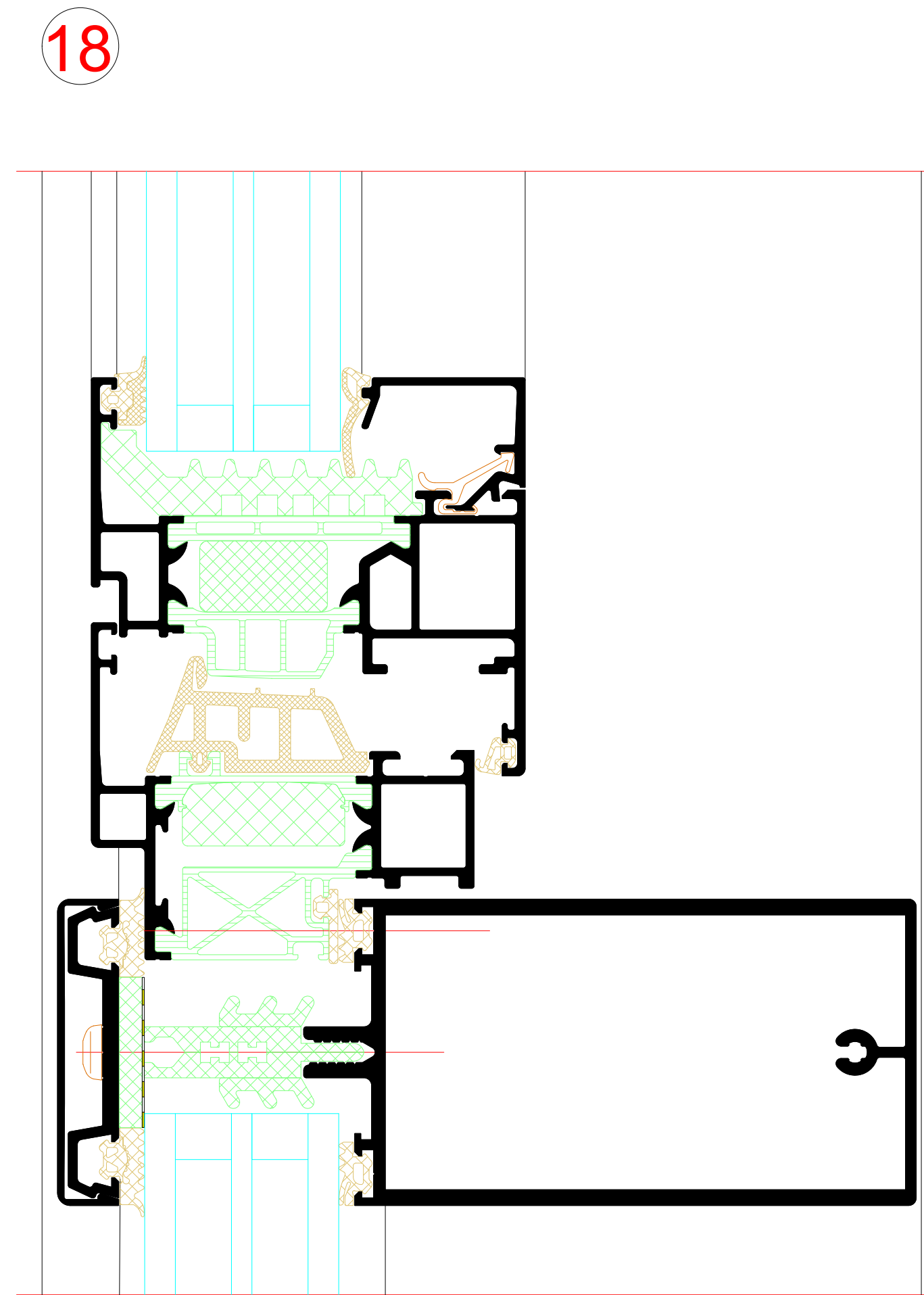
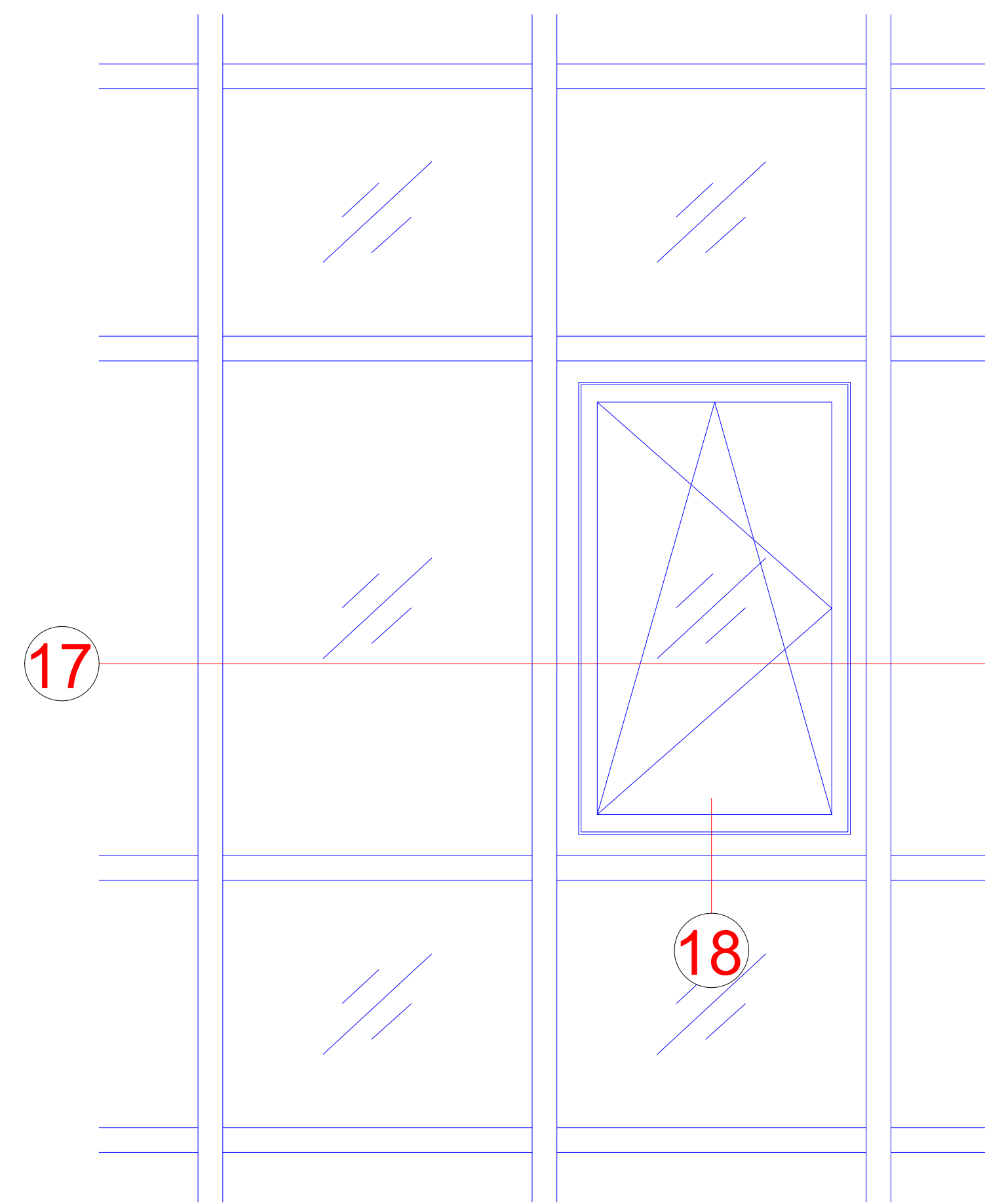
Tests and standards

Durchbiegungsverhalten profilabhängig

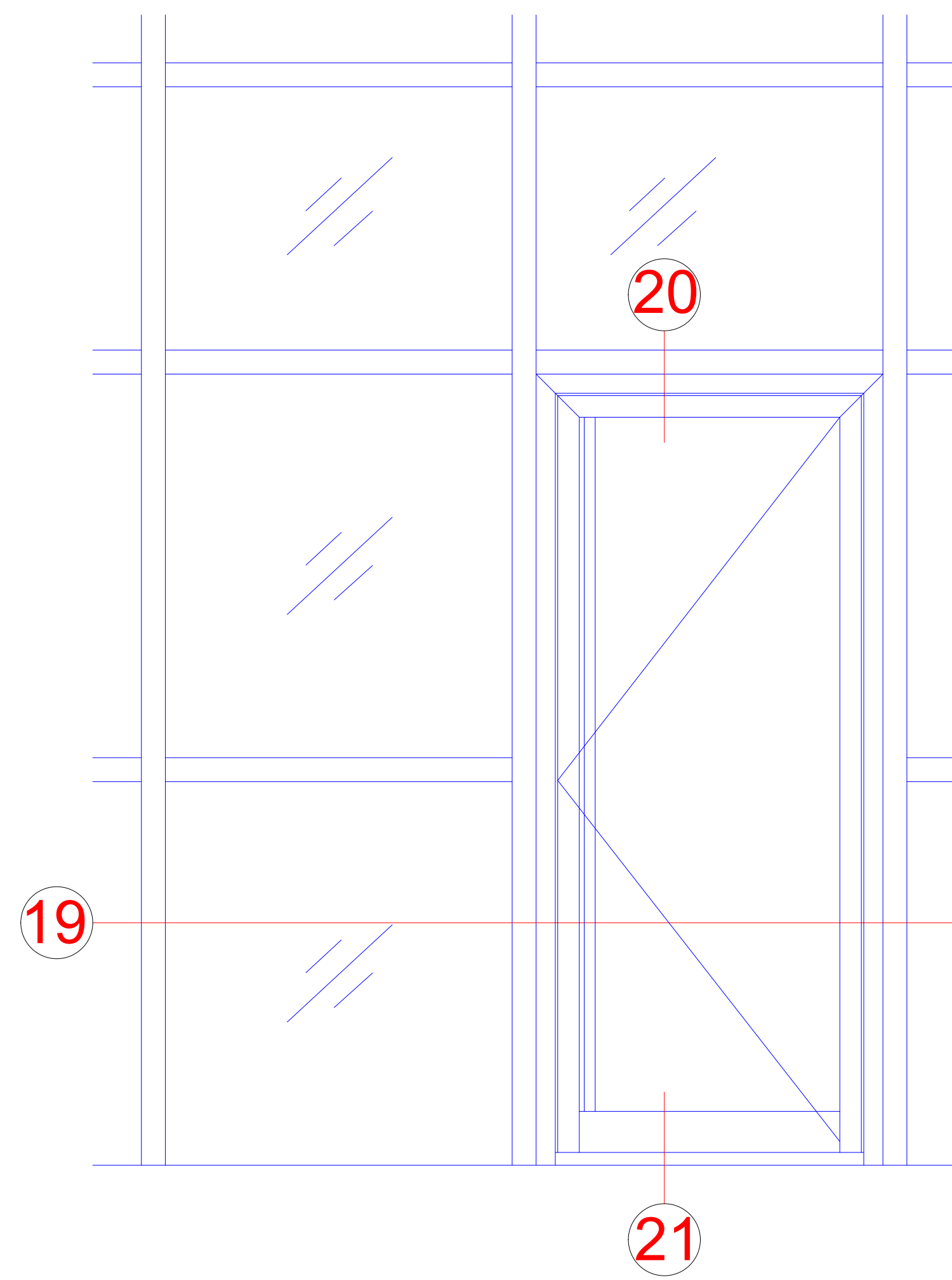
- * The amount of deflection will depend on the profile

**** Die Eigenschaften einer jeweils gewählten Ausführungsvariante oder Elementkombination sind im Einzelfall anhand der ausführlichen Prüfdokumentation zu bestimmen.**

Einsatzelement Riva AWS 75 SI+
Riva AWS 75.SI+ insert unit

[illegible]

Einsatzelement Riva AD UP 90 Design Edition
Riva AD UP 90 Design Edition insert unit



Technische Informationen AD UP 90

AD UP 90 technical information

Prüfungen und Normen *

Tests and standards

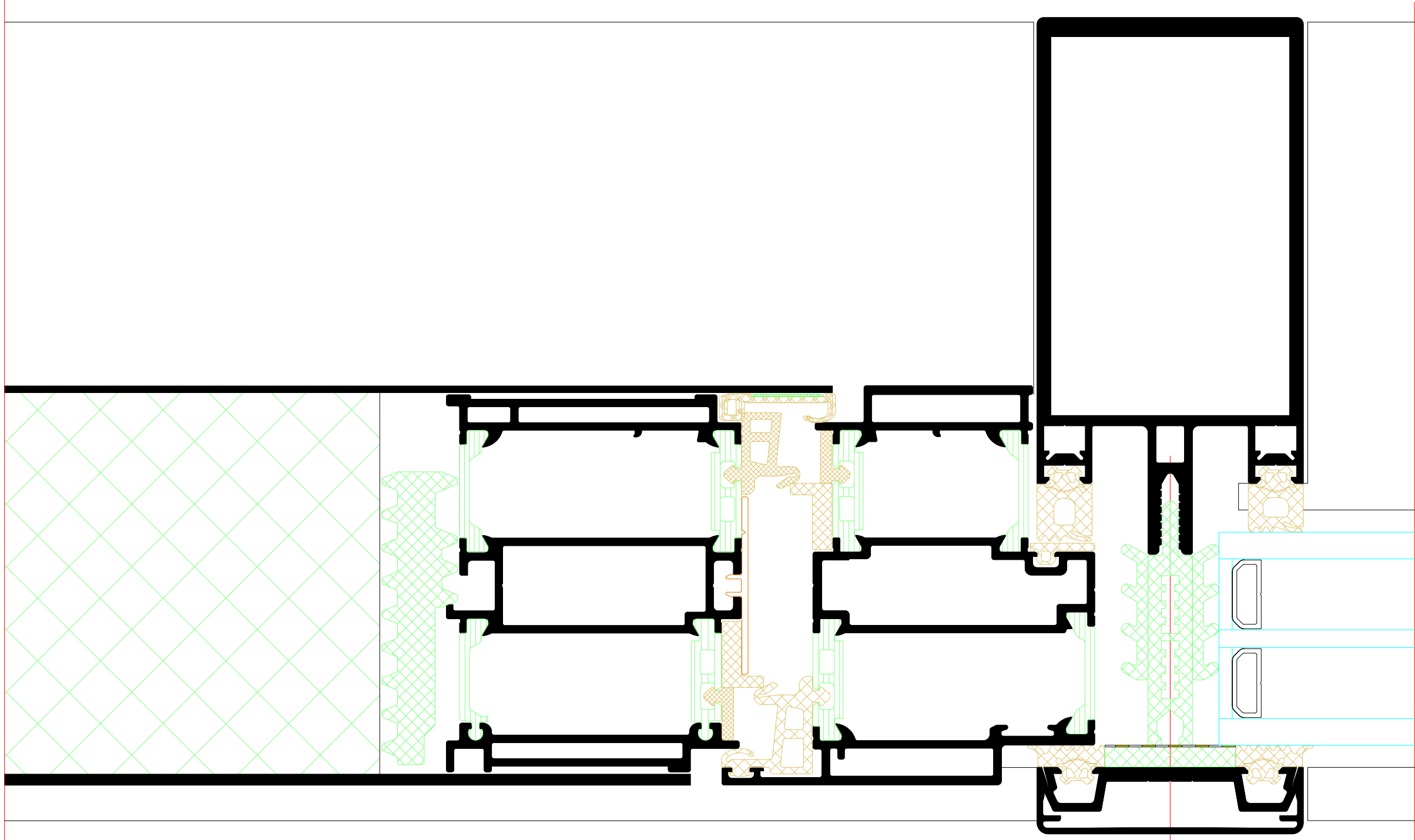
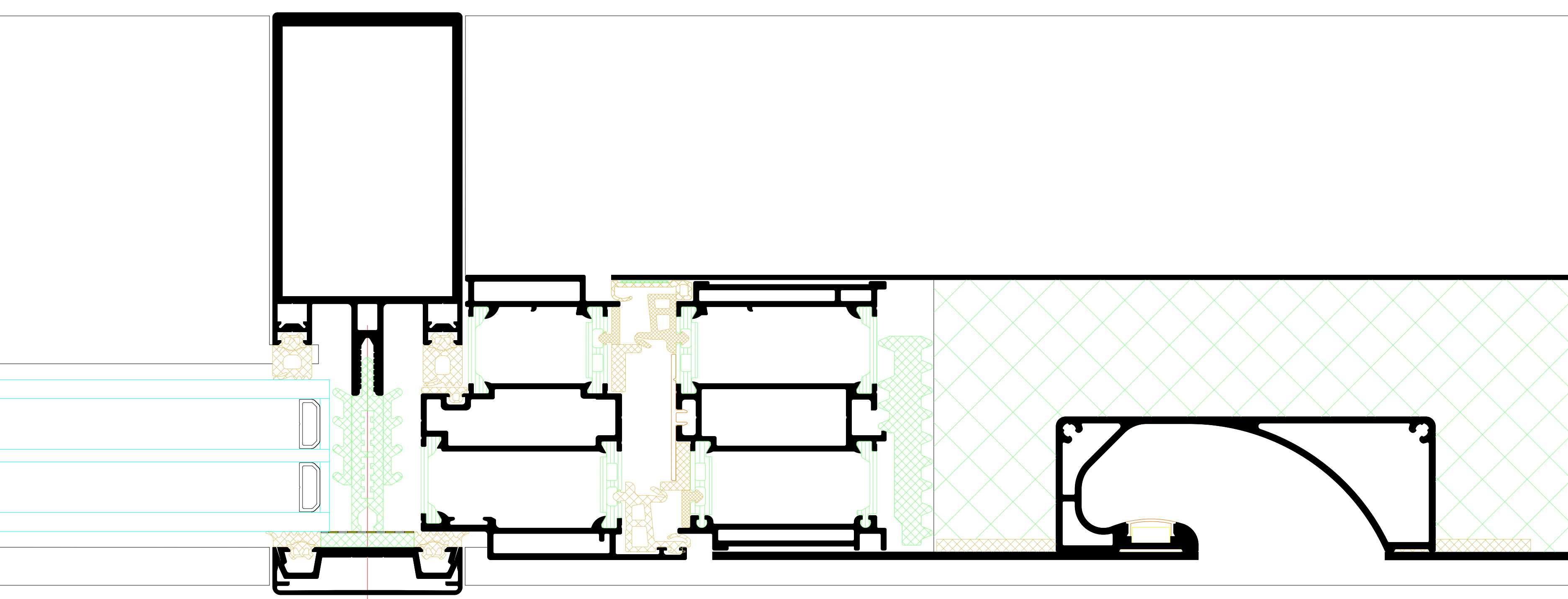
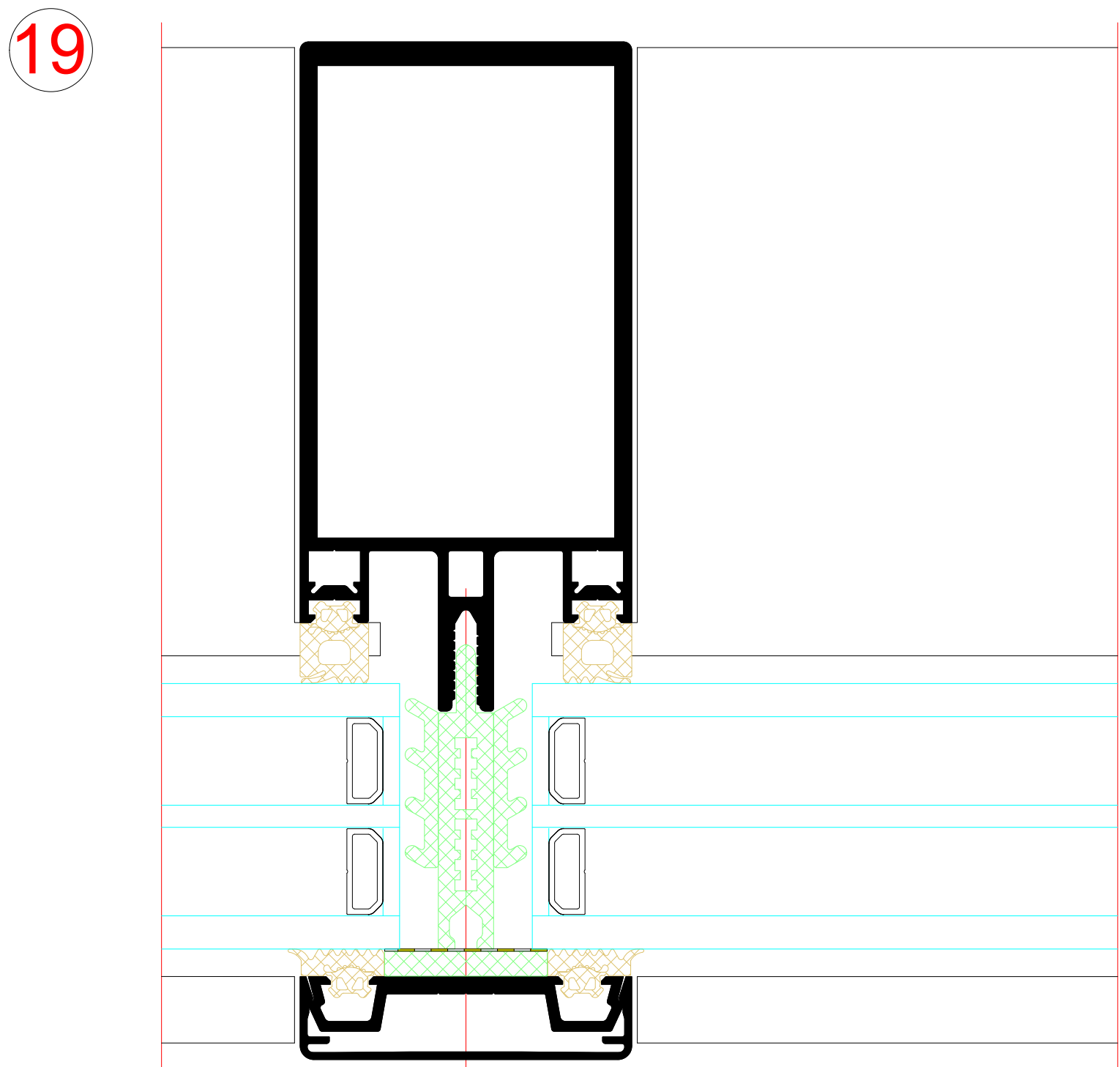
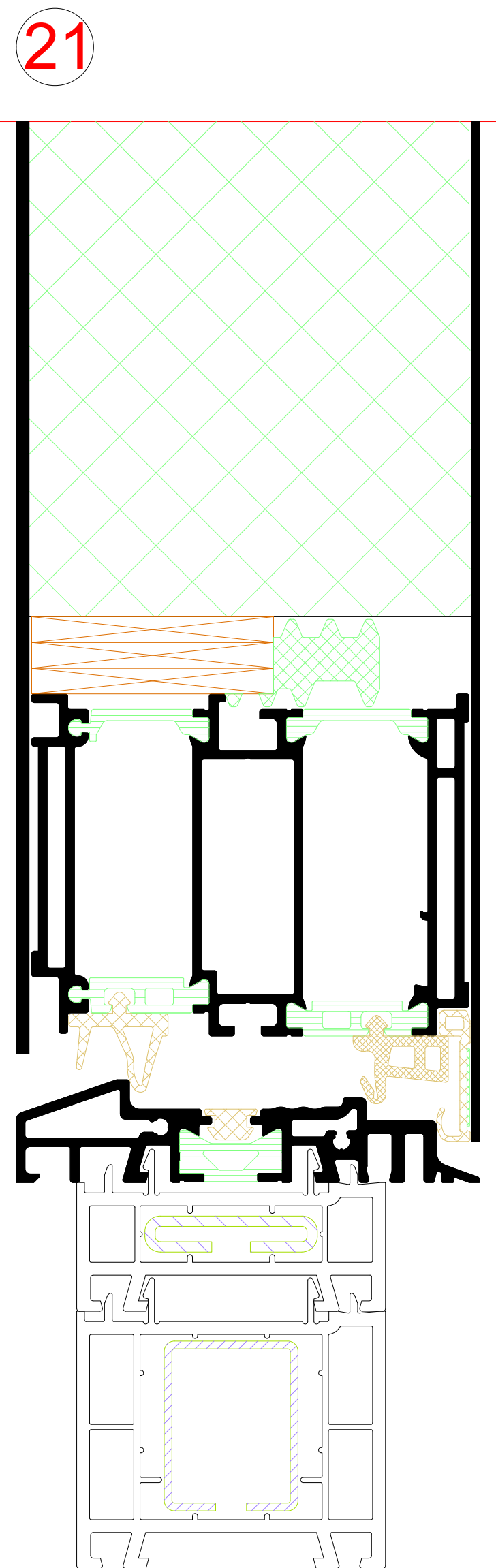
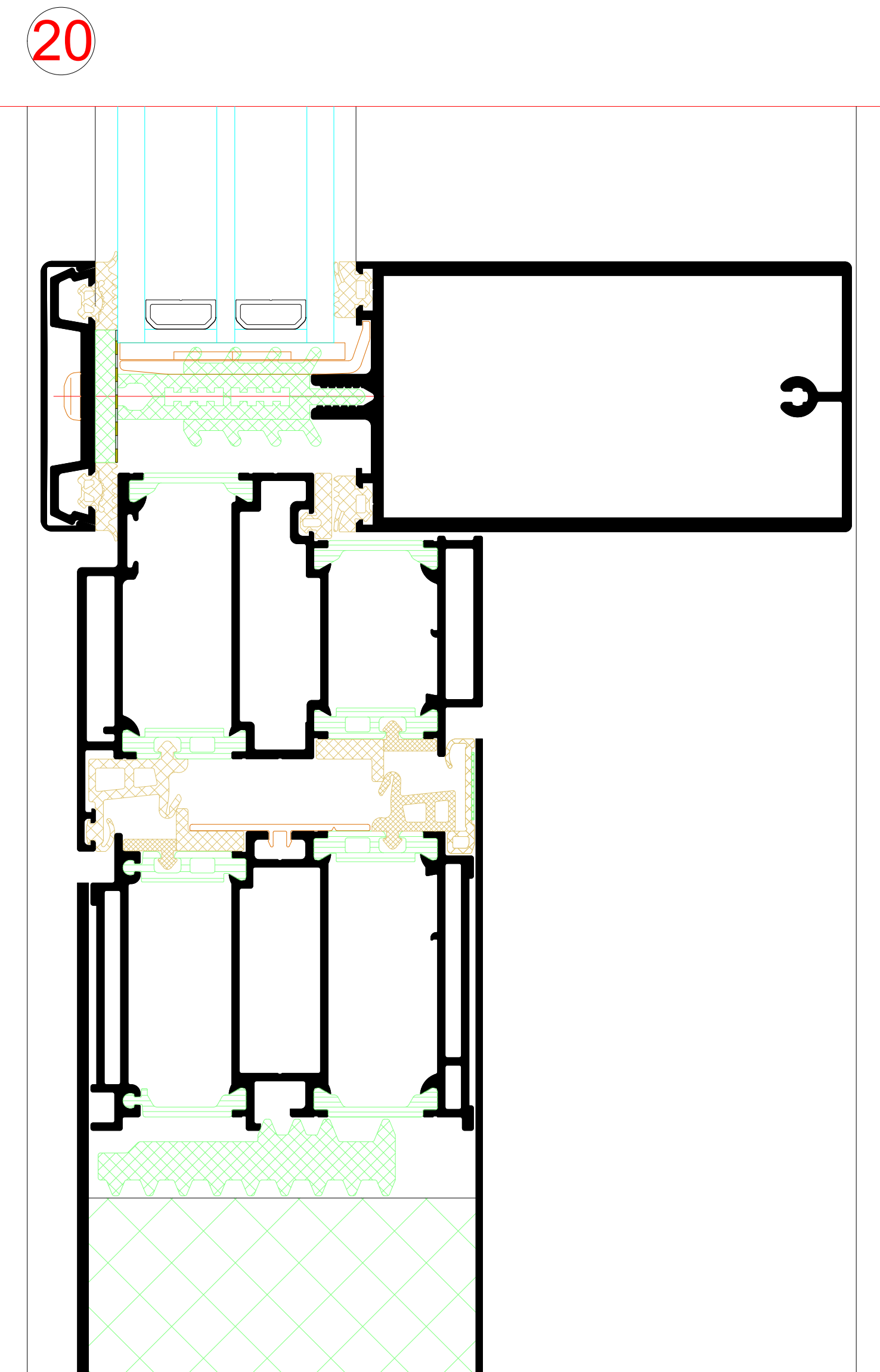
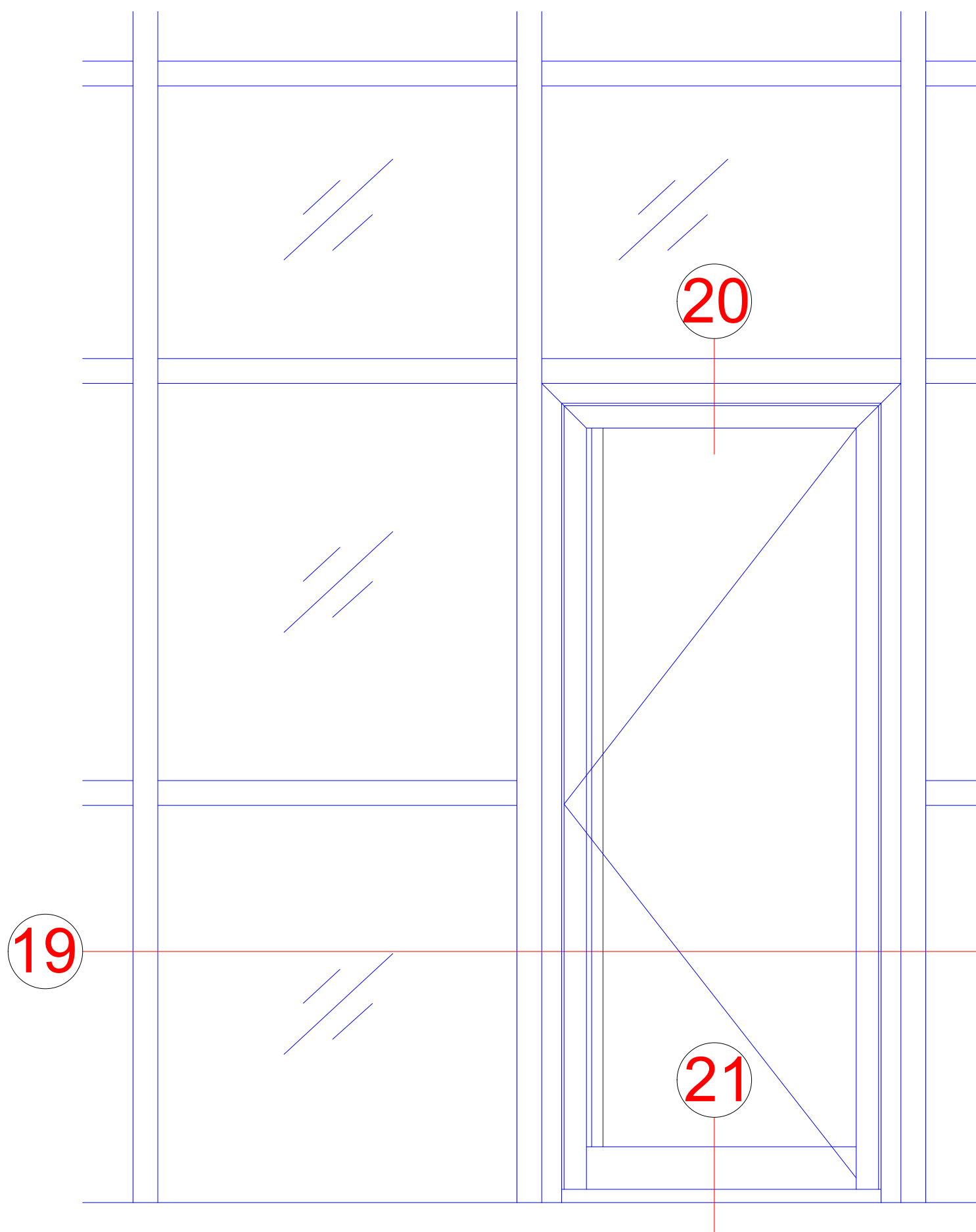
Wärmedämmung nach DIN EN ISO 1077-2 Thermal insulation in accordance with DIN EN ISO 1077-2	$U_f = 1,3 \text{ W/(m}^2\text{K)}$
Einbruchhemmung nach DIN V ENV 1627 (DIN EN 1627) Burglar resistance in accordance with DIN V ENV 1627 (DIN EN 1627)	keine Angaben No details
Luftdurchlässigkeit nach DIN EN 12207 Air permeability in accordance with DIN EN 12207	Klasse 4 Class 4
Schlagregendichtheit nach DIN EN 12208 Watertightness in accordance with DIN EN 12208	Klasse 5A Class 5A
Windlastwiderstand nach DIN EN 12210 Wind load resistance in accordance with DIN EN 12210	Klasse C2 / B2 Class C2 / B2

- * Die Angaben beschreiben die Bestwerte des Gesamtsystems bei innen als auch außen öffnenden Ausführungen. Die Eigenschaften einer jeweils gewählten Ausführungsvariante oder Elementkombination sind im Einzelfall anhand der ausführlichen Prüfdokumentation zu bestimmen.

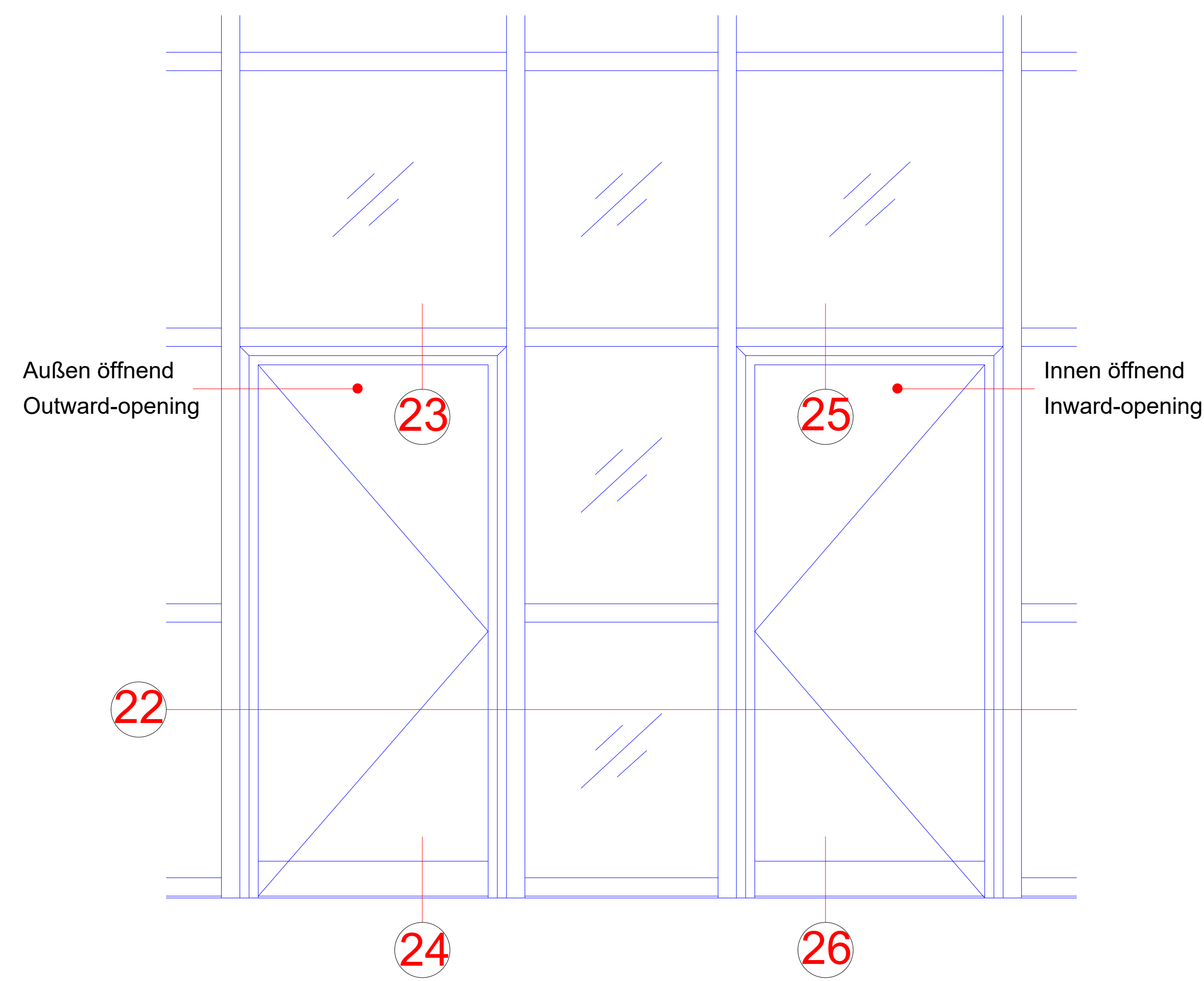
The information describes the optimum values of the entire system for both inward and outward-opening designs.

The properties of a selected design option or unit combination have to be determined individually based on the comprehensive test documentation.

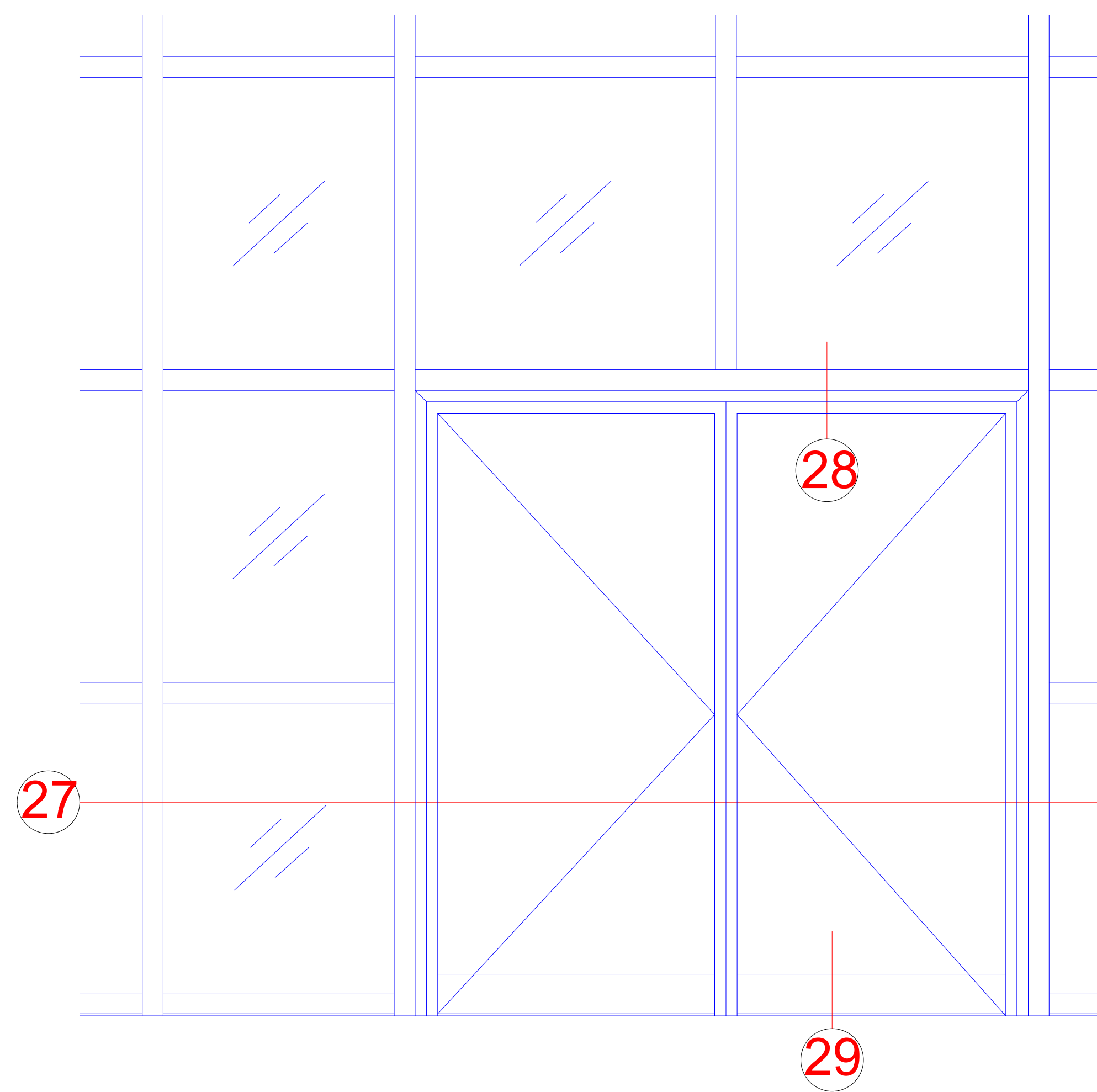
Einsatzelement Riva AD UP 90
Riva AD UP 90 insert unit



Einsatzelement Riva AD UP 75 - einflügelig
Riva AD UP 75 insert unit – single-leaf



Einsatzelement Riva AD UP 75 - zweiflügelig
Riva AD UP 75 insert unit – double-leaf



Technische Informationen

Technical information

Prüfungen und Normen *

Tests and standards

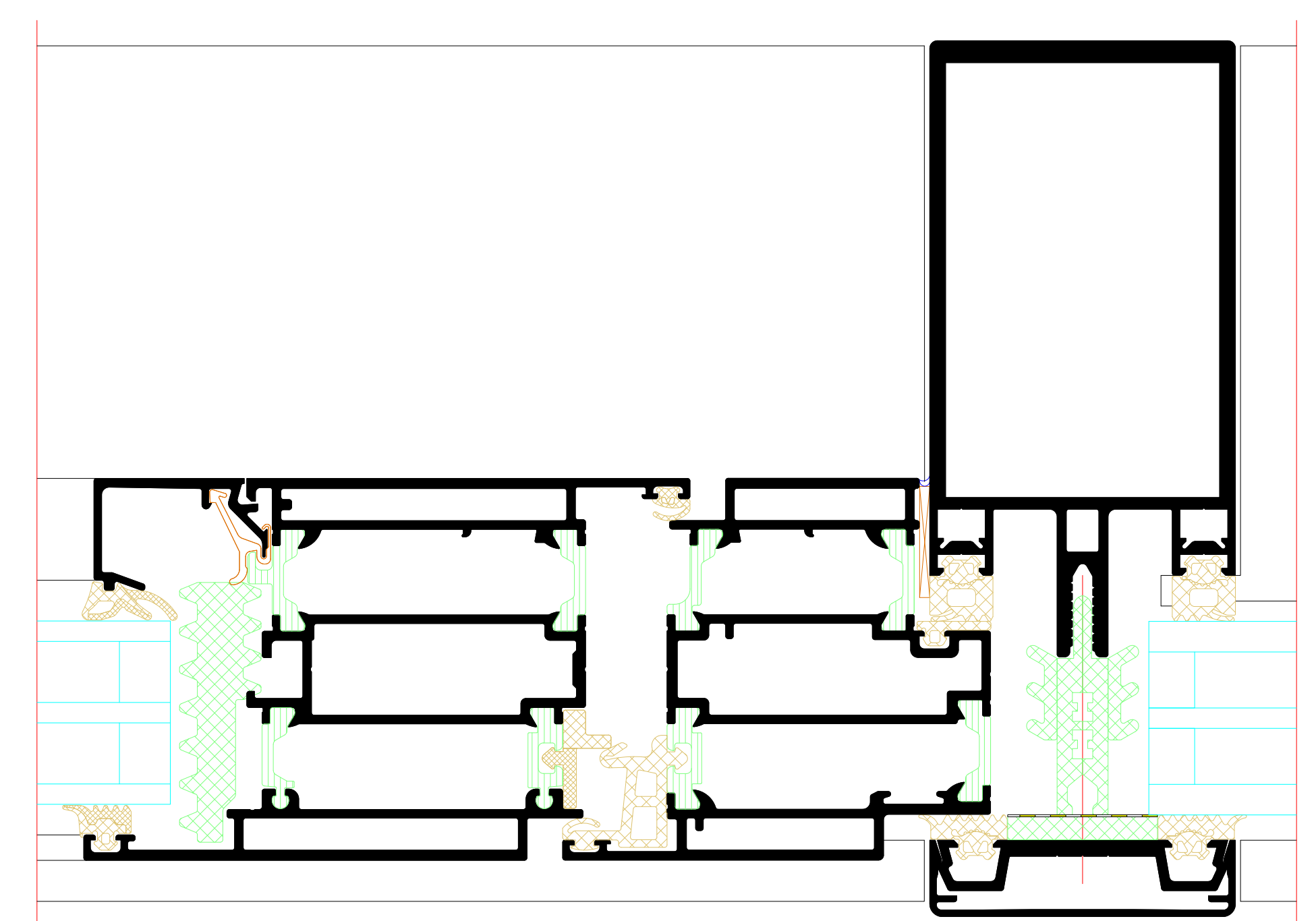
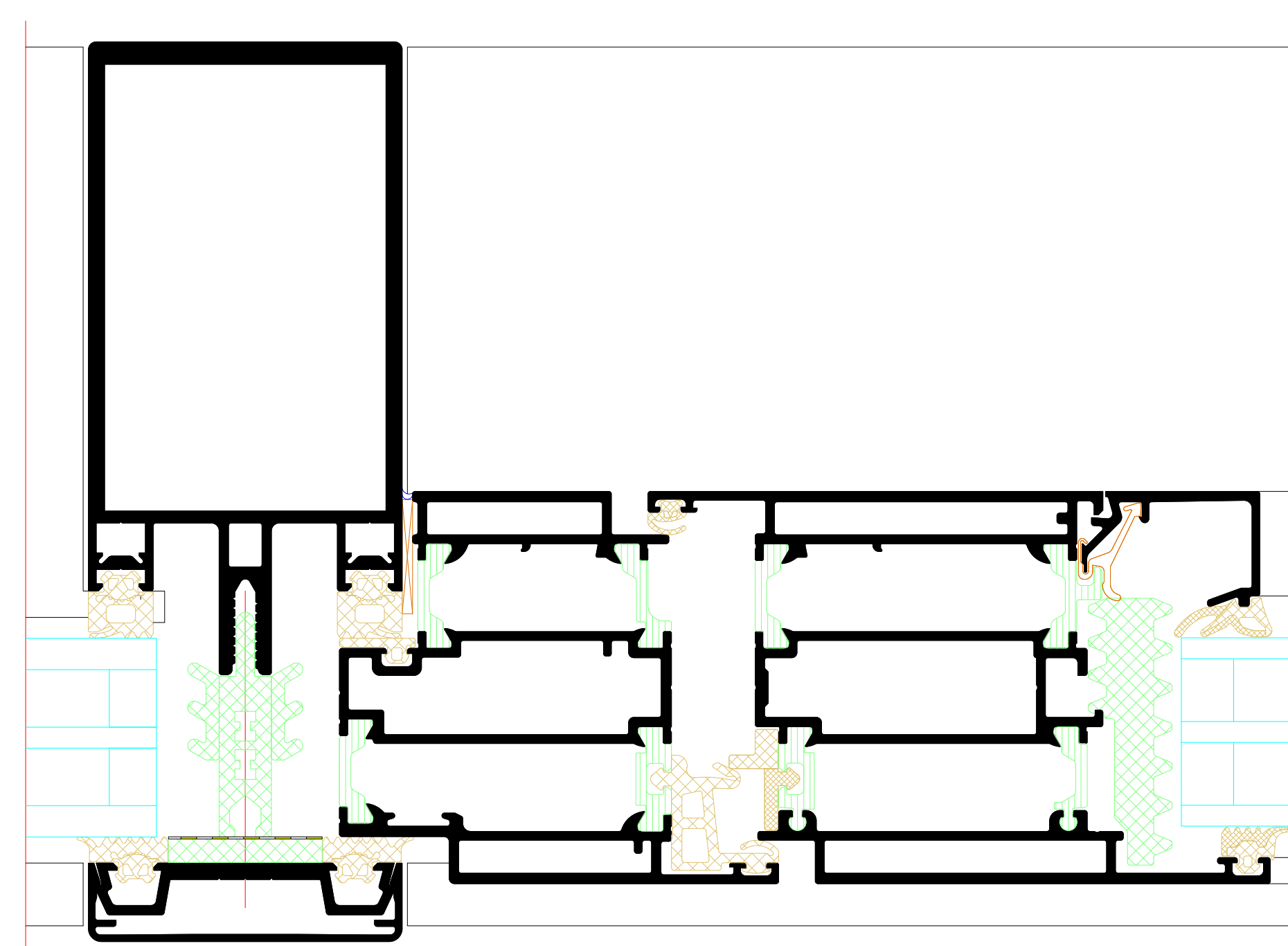
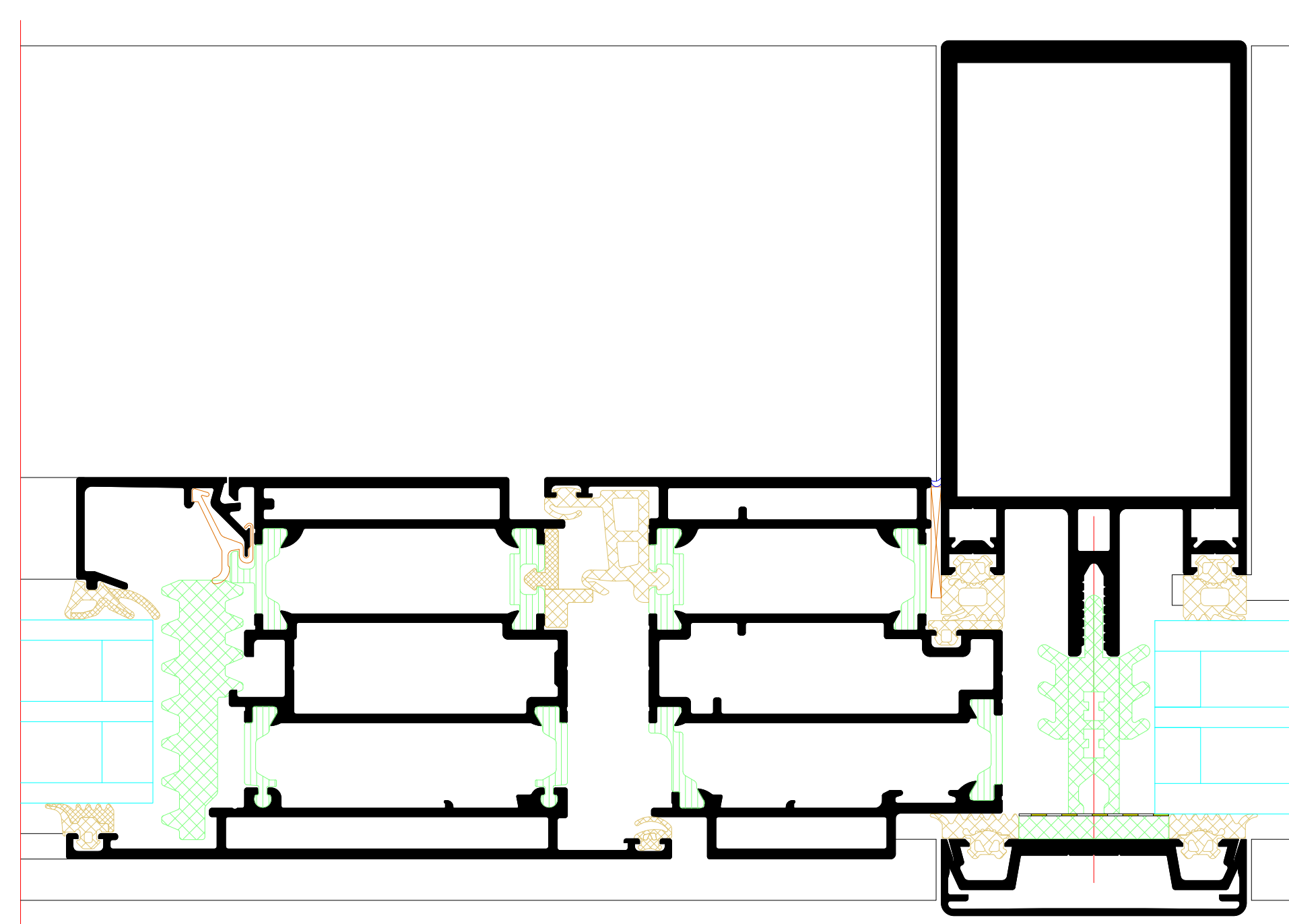
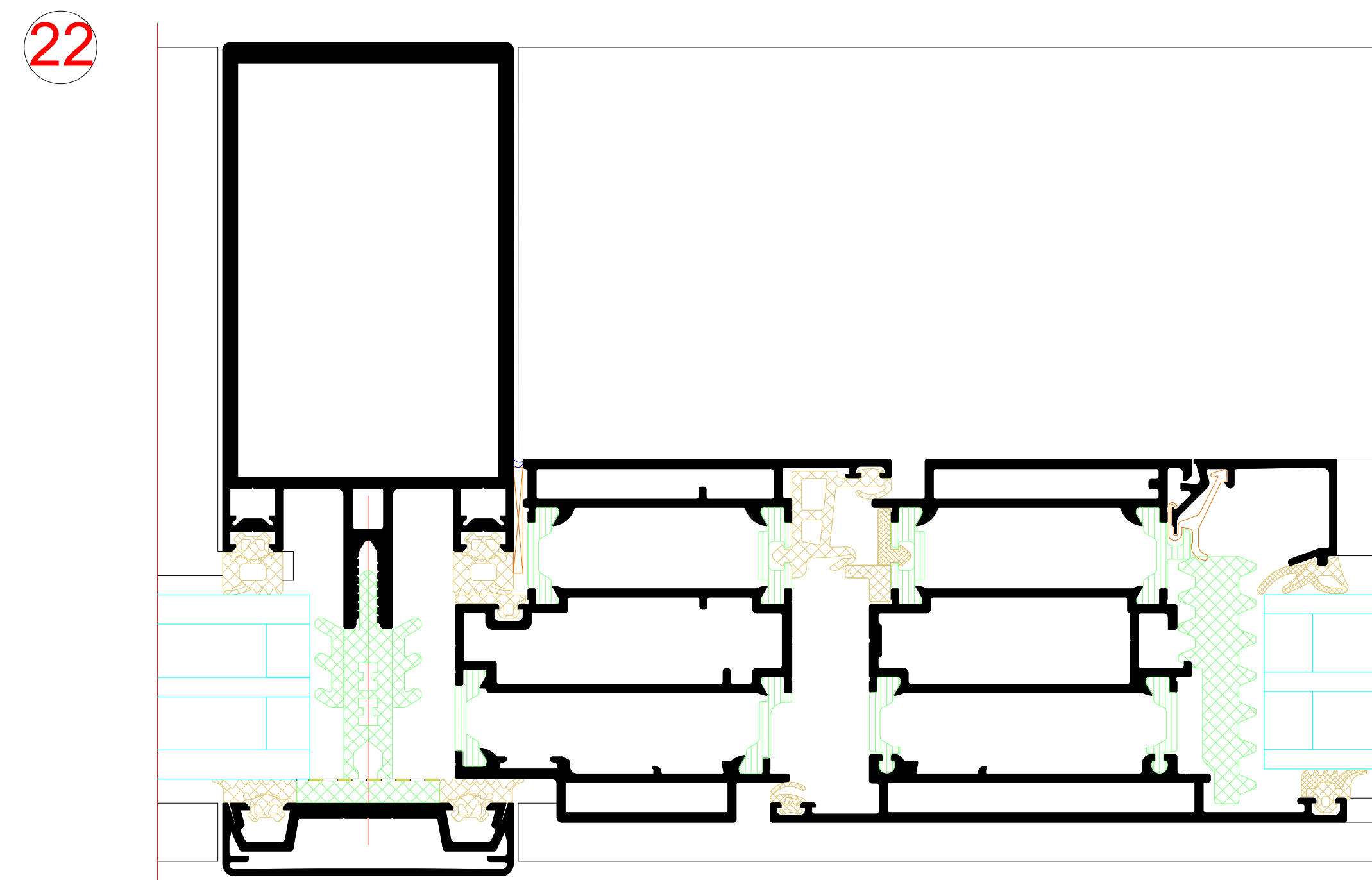
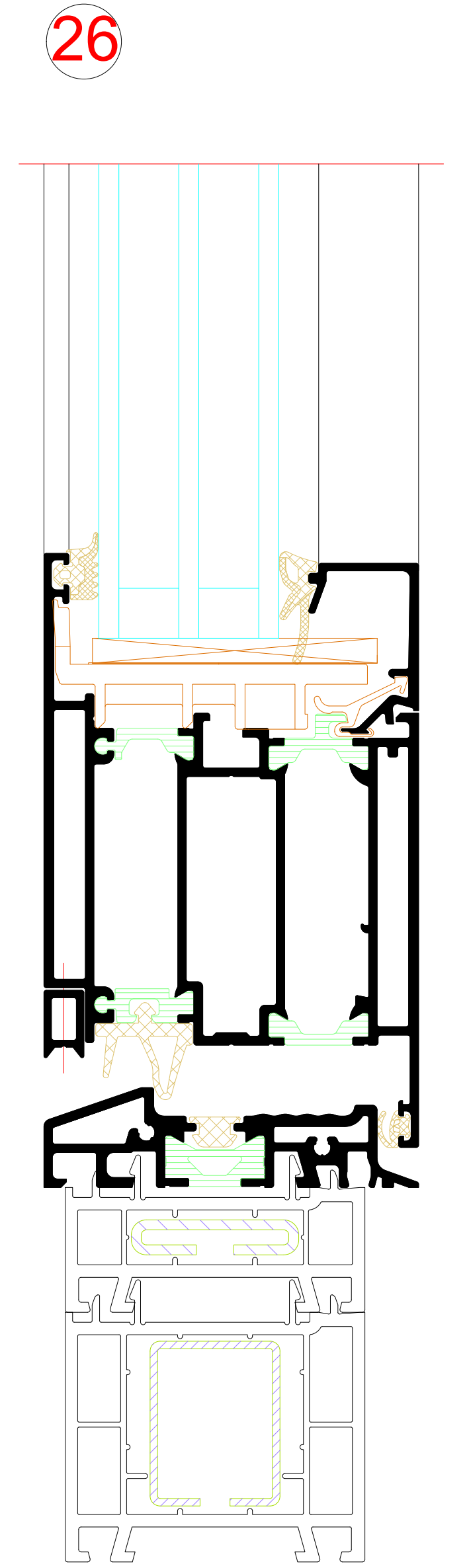
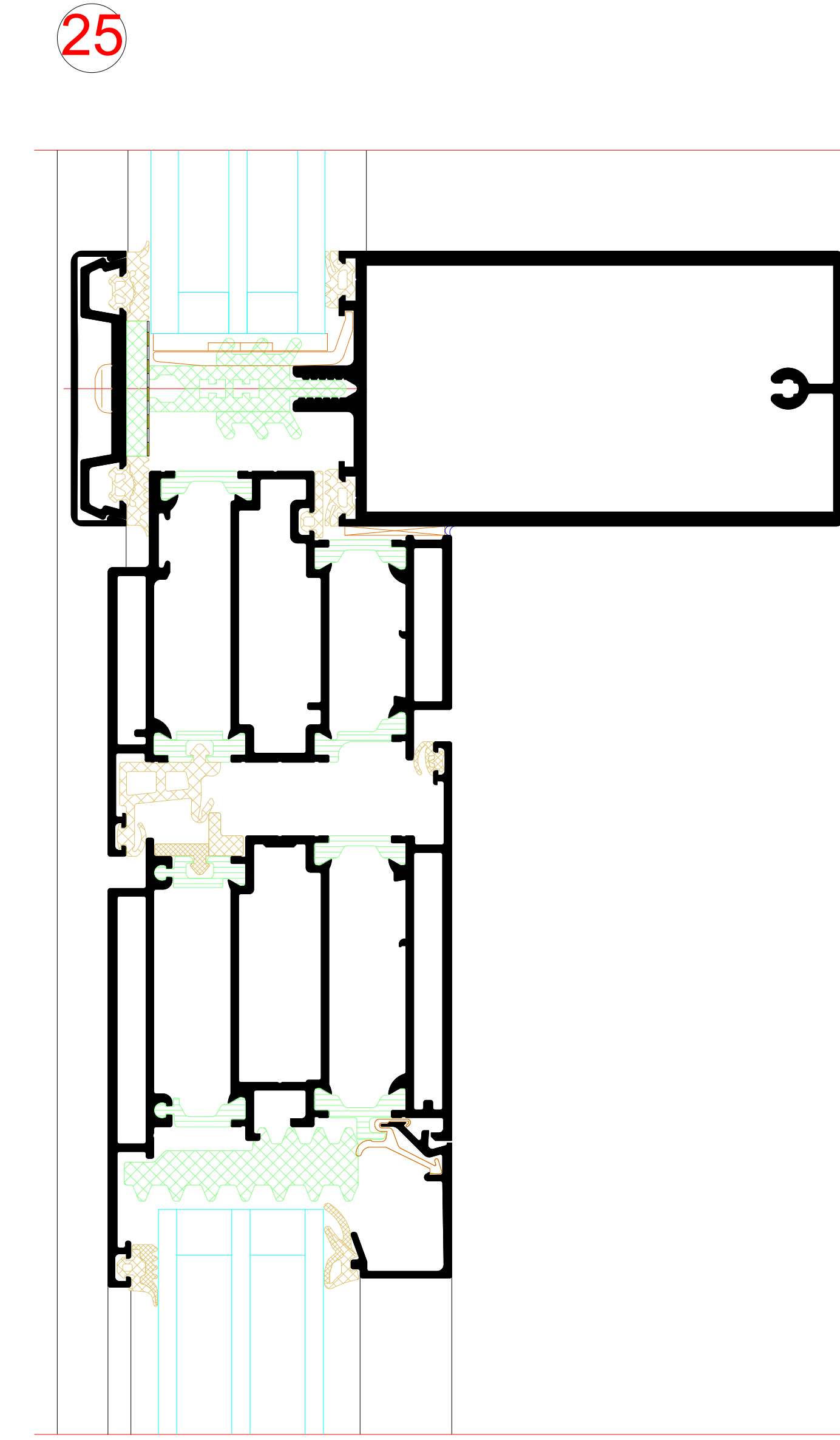
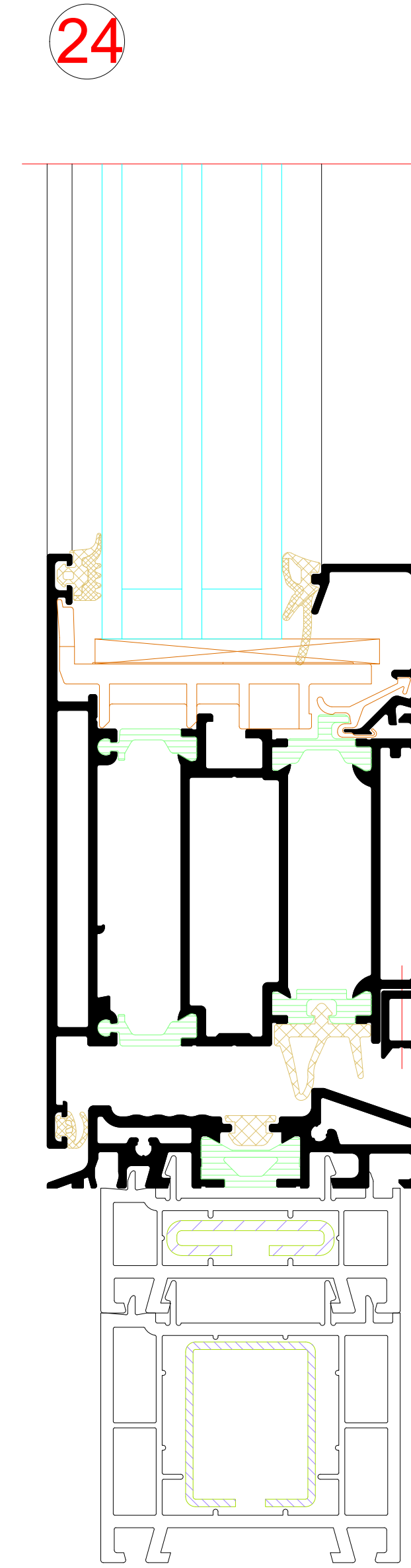
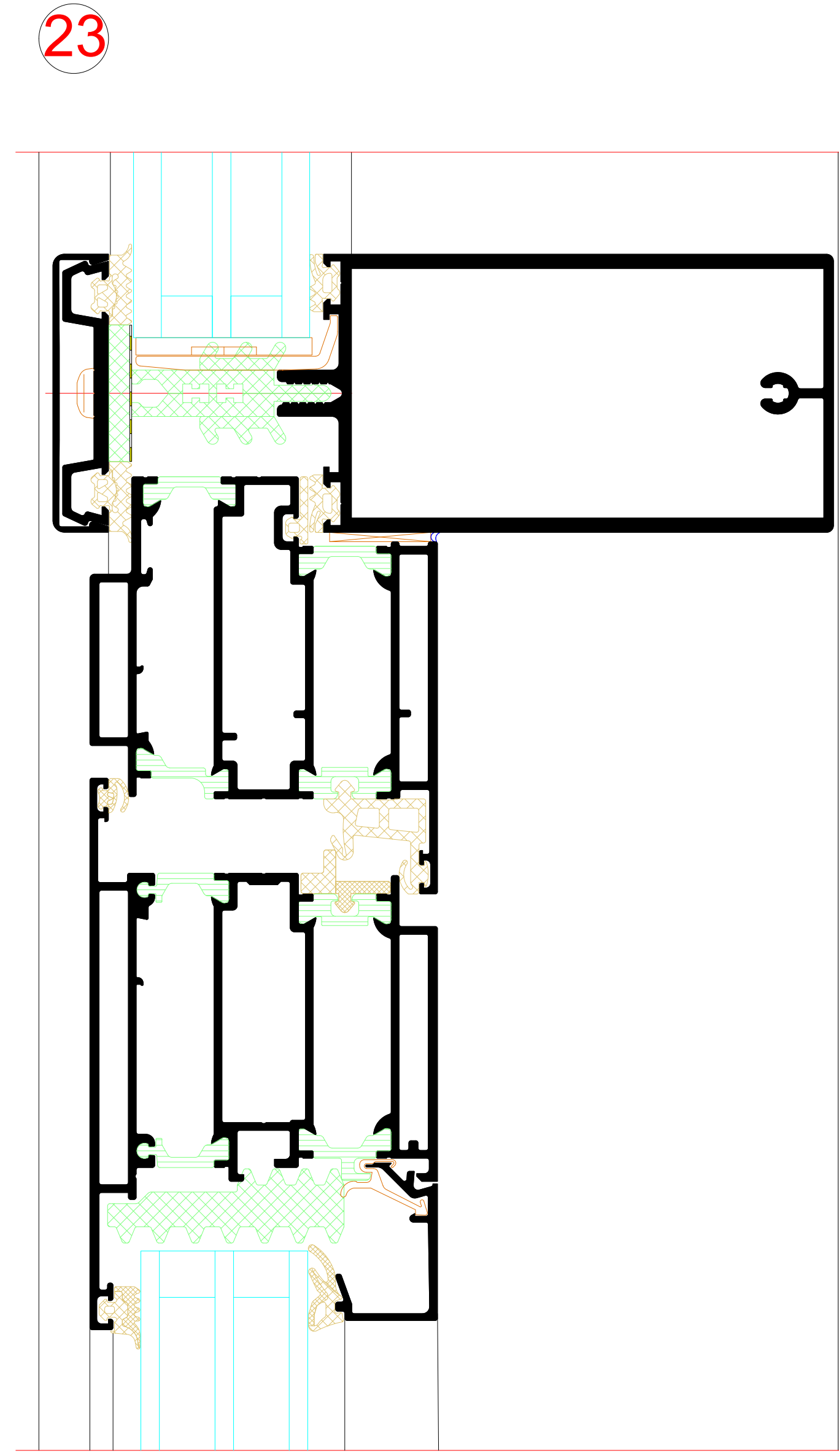
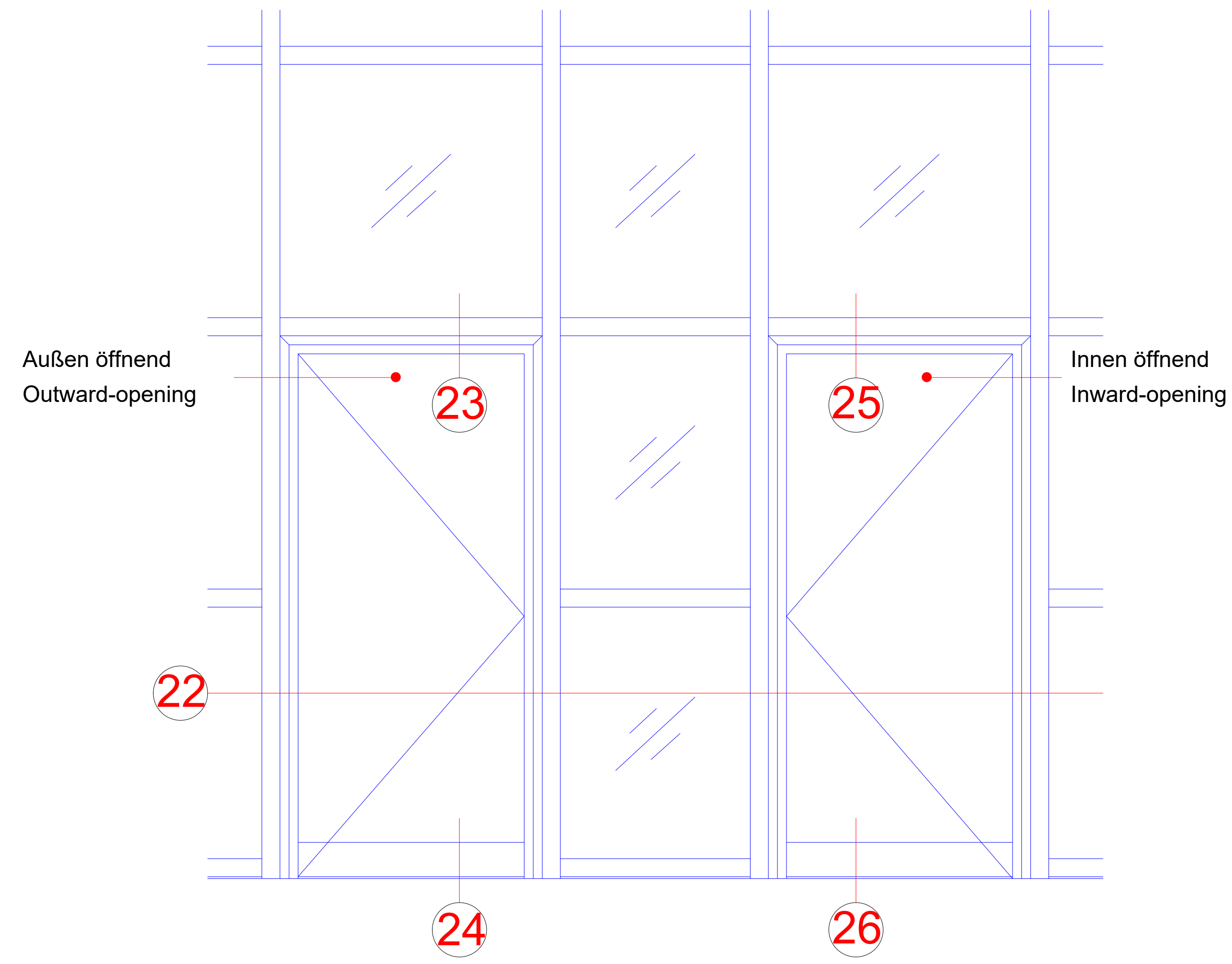
Wärmedämmung nach DIN EN ISO 1077-2 Thermal insulation in accordance with DIN EN ISO 1077-2	$U_f = 1,6 \text{ W/(m}^2\text{K)}$
Einbruchhemmung nach DIN V ENV 1627 (DIN EN 1627) Burglar resistance in accordance with DIN V ENV 1627 (DIN EN 1627)	Klasse RC 2 (WK2) Class RC 2 (WK2)
Luftdurchlässigkeit nach DIN EN 12207 Air permeability in accordance with DIN EN 12207	Klasse 4 Class 4
Schlagregendichtheit nach DIN EN 12208 Watertightness in accordance with DIN EN 12208	Klasse E750 Class E750
Windlastwiderstand nach DIN EN 12210 Wind load resistance in accordance with DIN EN 12210	Klasse C3 / B3 Class C3 / B3

* Die Angaben beschreiben die Bestwerte des Gesamtsystems bei innen als auch außen öffnenden Ausführungen. Die Eigenschaften einer jeweils gewählten Ausführungsvariante oder Elementkombination sind im Einzelfall anhand der ausführlichen Prüfdokumentation zu bestimmen.

The information describes the optimum values of the entire system for both inward and outward-opening designs.

The properties of a selected design option or unit combination have to be determined individually based on the comprehensive test documentation.

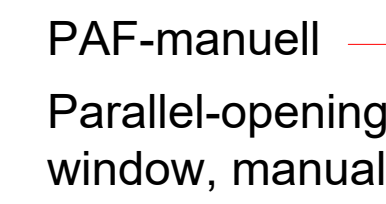
Einsatzelement Riva AD UP 75 - einflügelig
Riva AD UP 75 insert unit – single-leaf

[illegible]

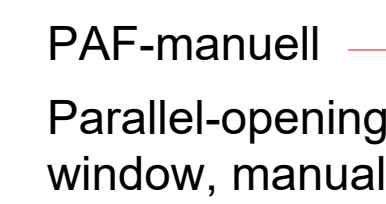
- double-leaf



Riva AWS 114.SI manual insert unit



Riva AWS 114.SI mechatronic insert unit

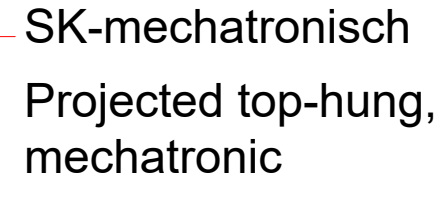


Prüfungen und Normen **

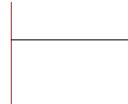
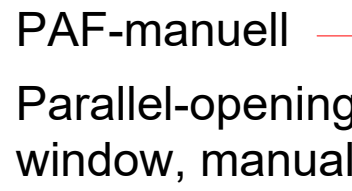
Wärmedämmung nach DIN EN ISO 1077-2	Uf = 1,4 W/(m²K)
Thermal insulation in accordance with DIN EN ISO 1077-2	
Schalldämmung nach DIN EN ISO 140-3	bis Rw 47 dB
Sound reduction in accordance with DIN EN ISO 140-3	Up to Rw 47 dB
Einbruchhemmung nach DIN V ENV 1627	Klasse WK2 (RC 2)
Burglar resistance in accordance with DIN V ENV 1627	Class WK2 (RC 2)
Luftdurchlässigkeit nach DIN EN 12207	Klasse 3-4
Air permeability in accordance with DIN EN 12207	Class 3-4
Schlagregendichtheit nach DIN EN 12208	Klasse E 1200
Watertightness in accordance with DIN EN 12208	Class E 1200
Windlastwiderstand nach DIN EN 12210	Klasse C5/B5
Wind load resistance in accordance with DIN EN 12210	Class C5 / B5
Mechanische Beanspruchung nach DIN EN 13115	Klasse 4
Mechanical loading in accordance with DIN EN 13115	Class 4
Dauerfunktion nach DIN EN 12400	Klasse 3
Durability in accordance with DIN EN 12400	Class 3

- * Durchbiegungsverhalten profilabhängig
The amount of deflection will depend on the profile
- ** Die Angaben beschreiben die Bestwerte des Gesamtsystems.
Die Eigenschaften einer jeweils gewählten Ausführungsvariante oder Elementkombination sind im Einzelfall anhand der ausführlichen Prüfdokumentation zu bestimmen.
The information describes the optimum values of the entire system.
The properties of a selected design option or unit combination have to be determined individually based on the comprehensive test documentation.

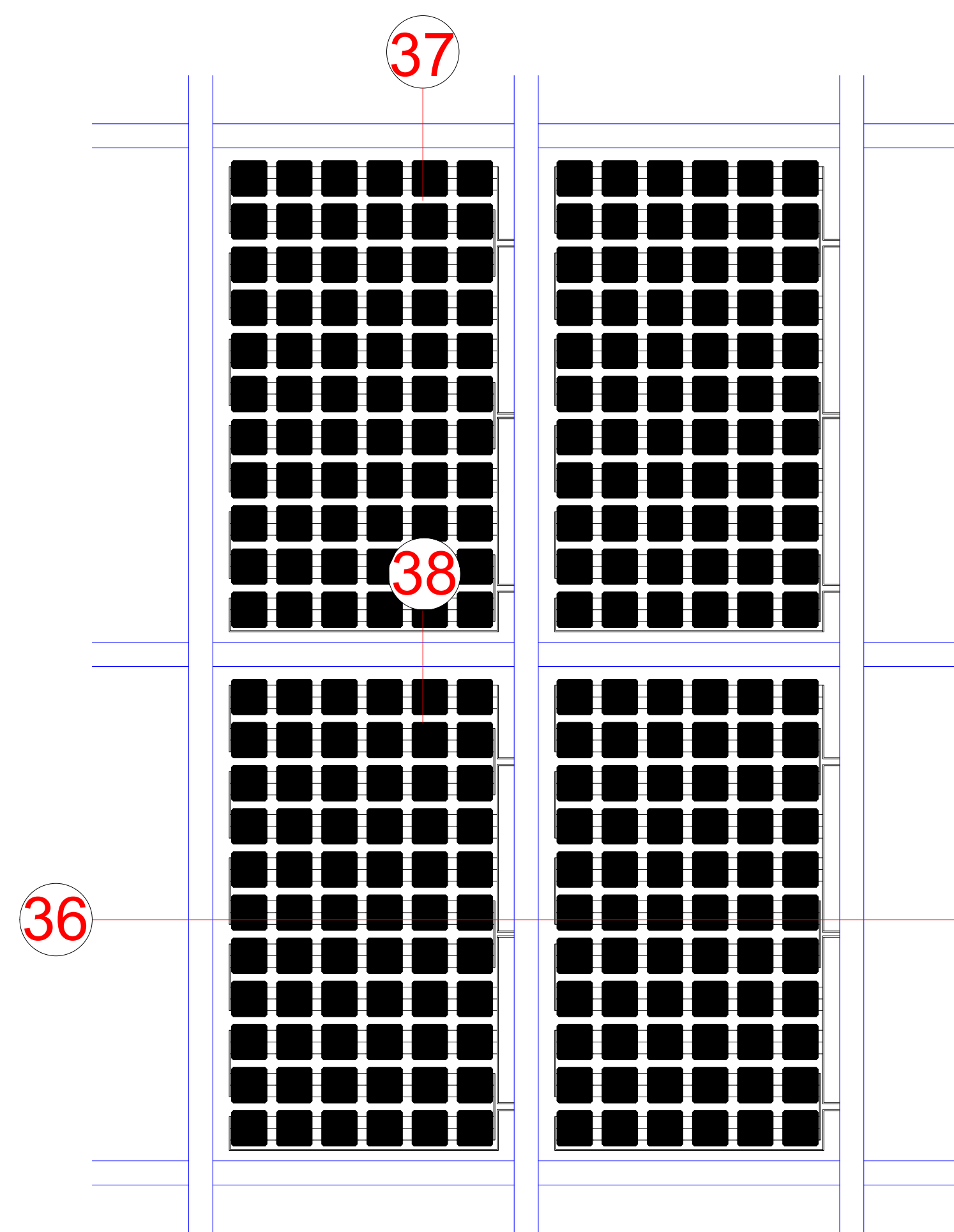
Riva AWS 114.SI manual insert unit



Einsatzelement Riva AWS 114.SI mechatronisch
Riva AWS 114.SI mechatronic insert unit

[illegible]

BIPV-Modul 3-Fach Isolierglas
BIPV module, triple insulating glass

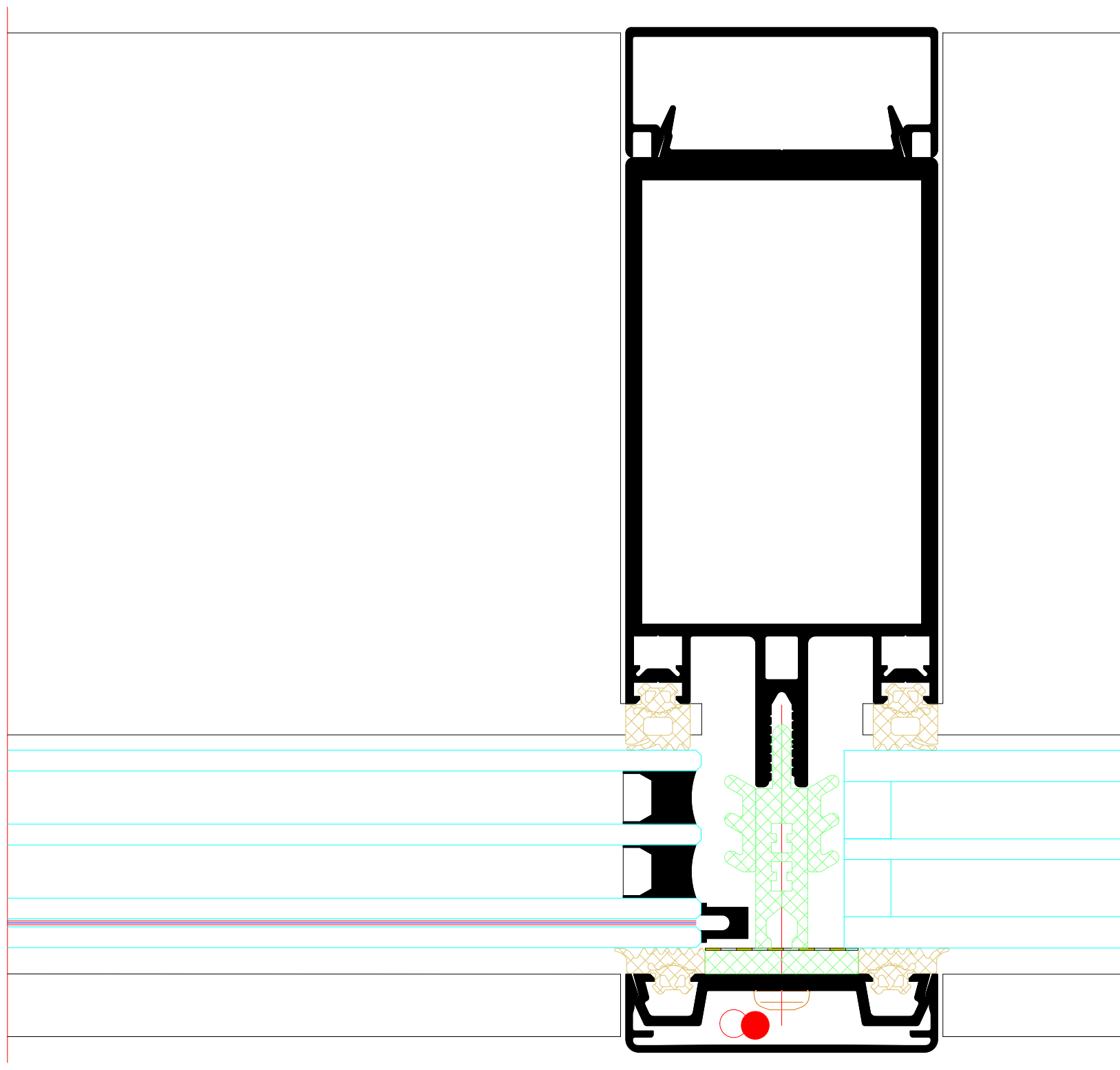
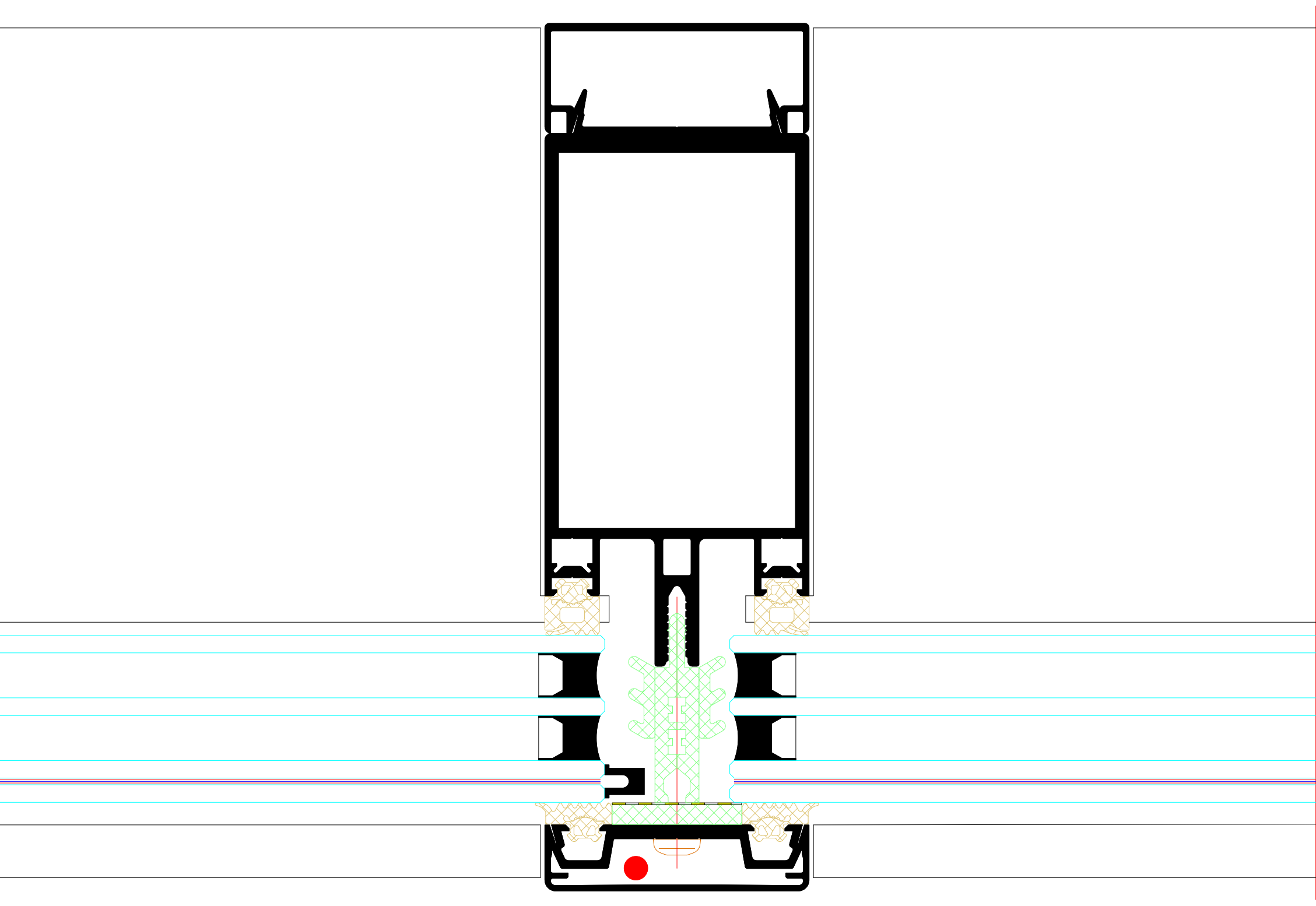
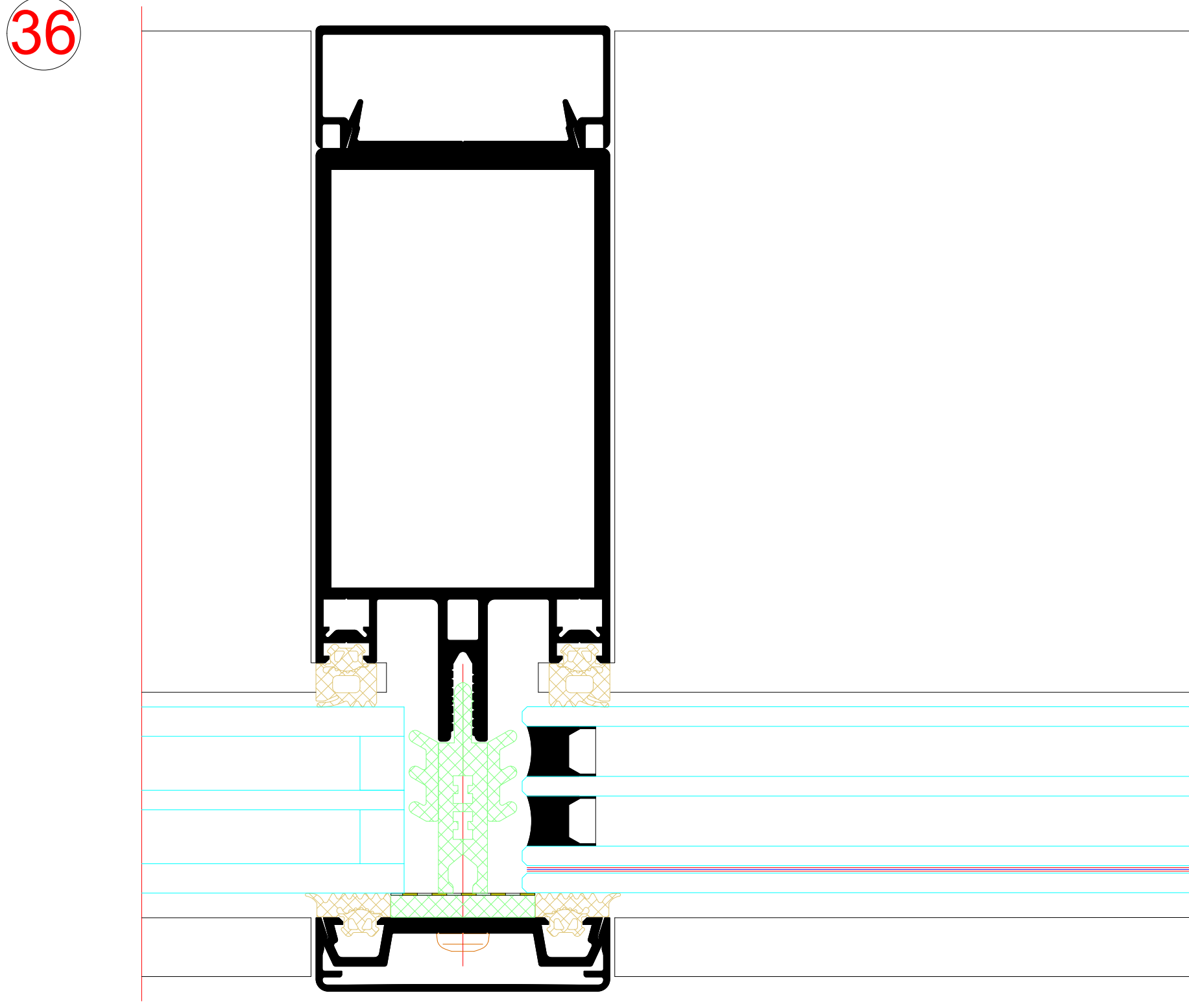
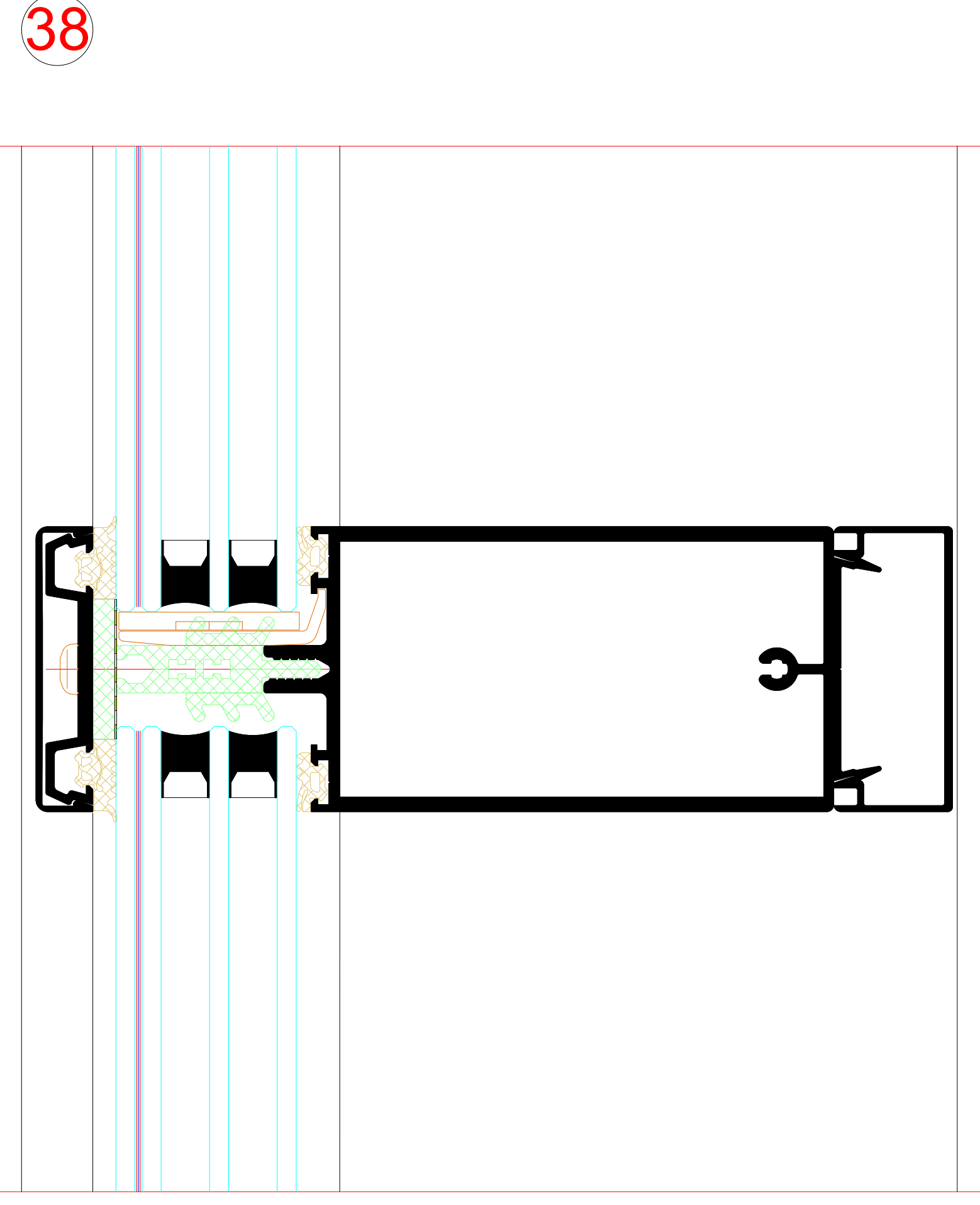
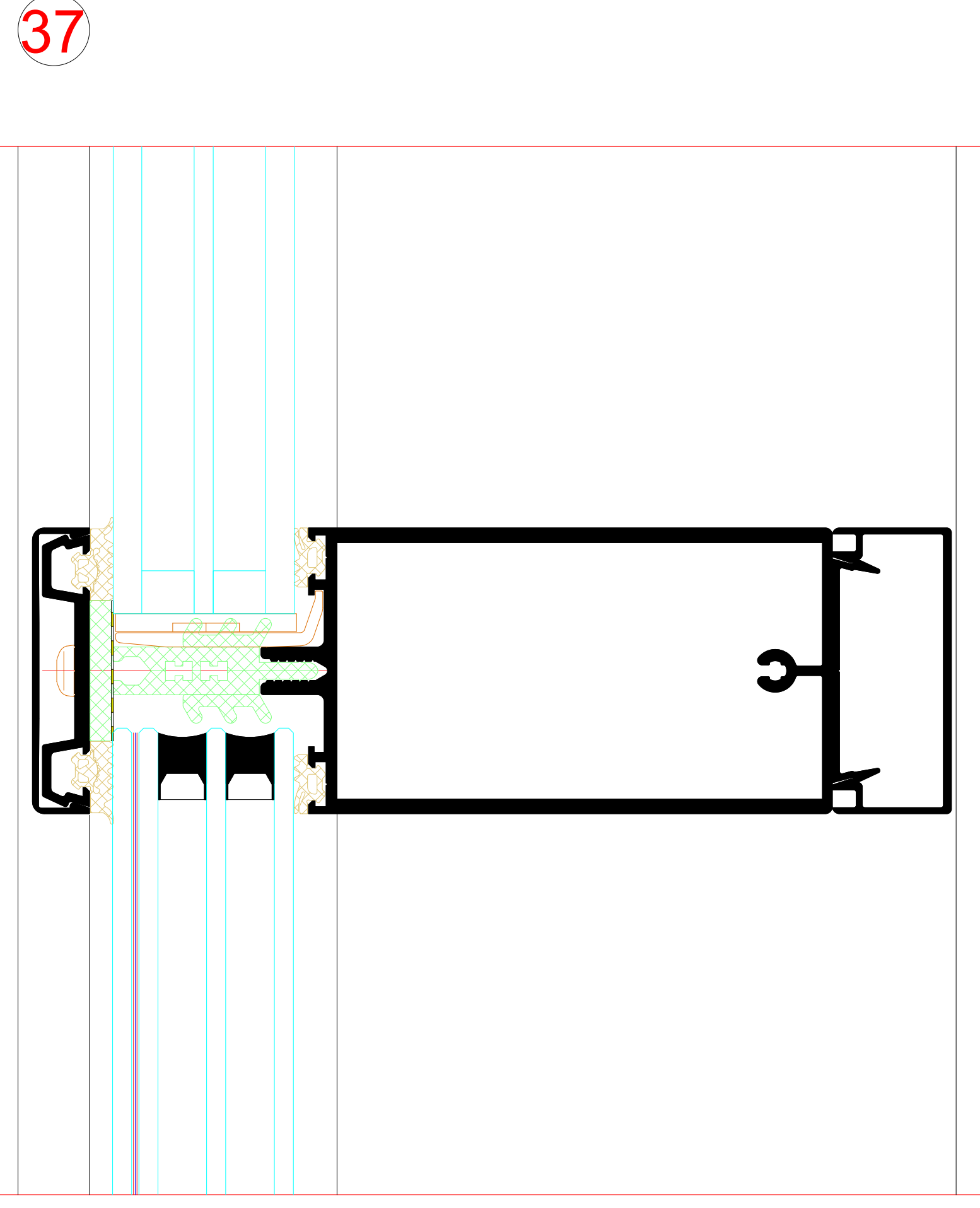
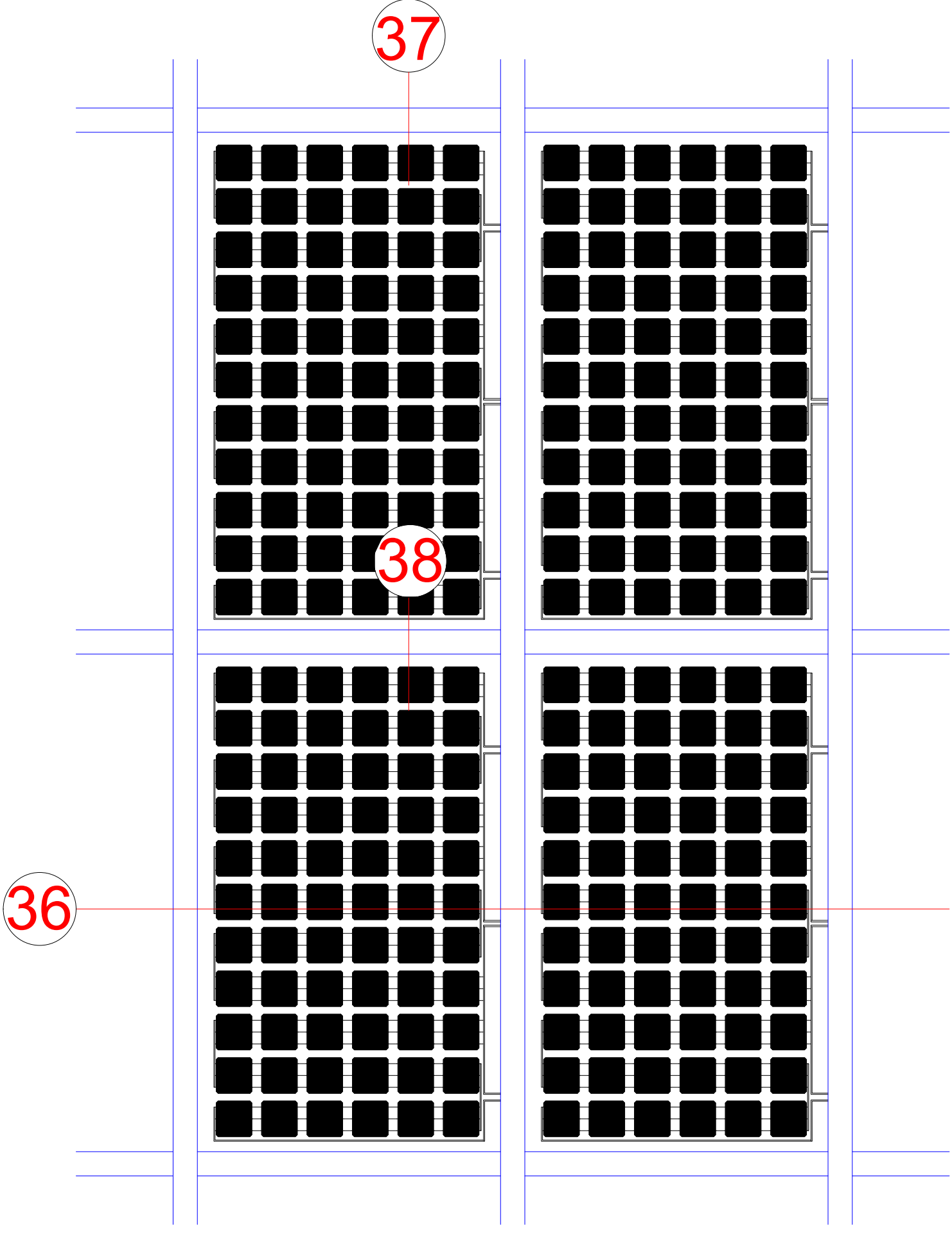


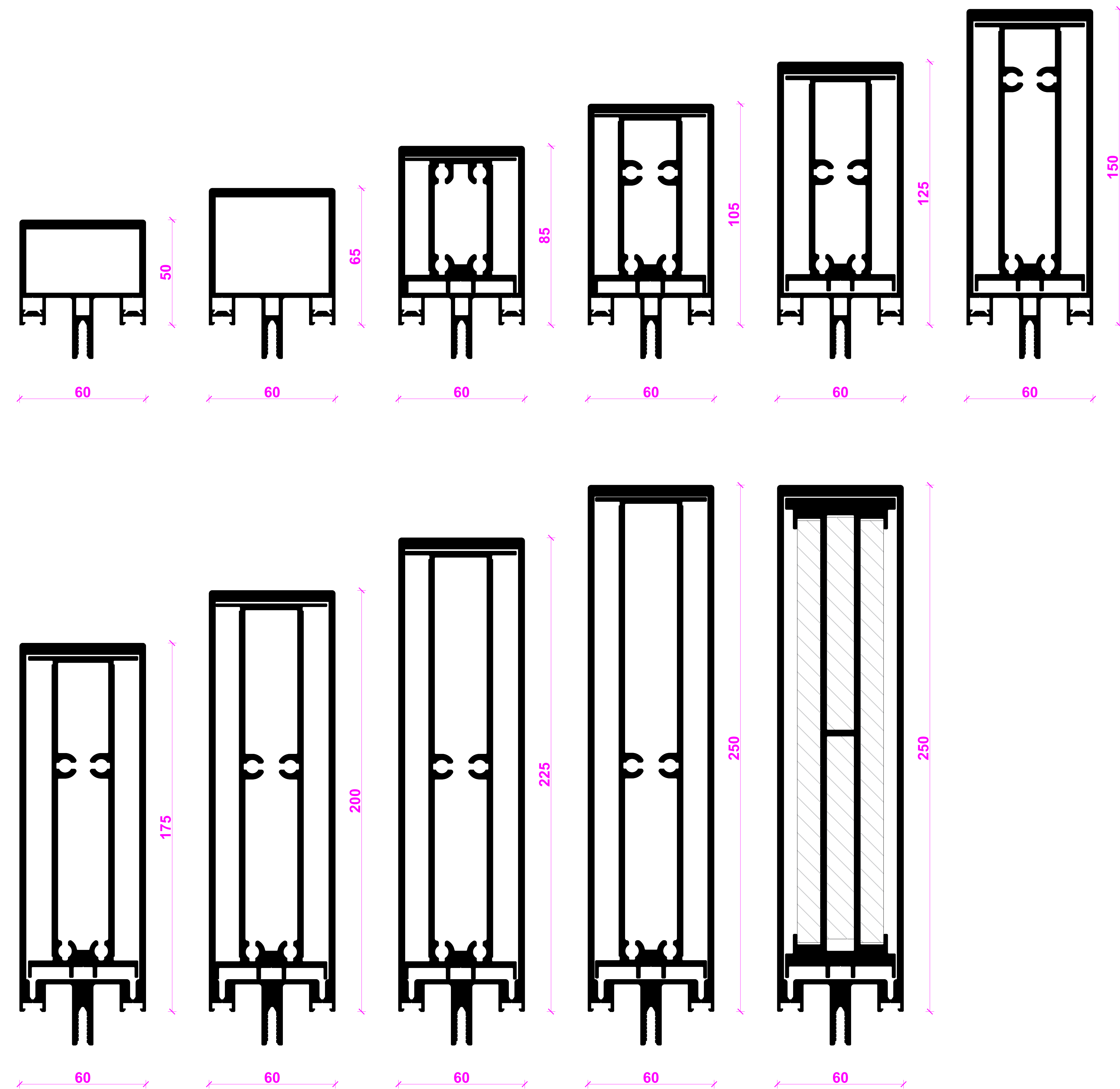
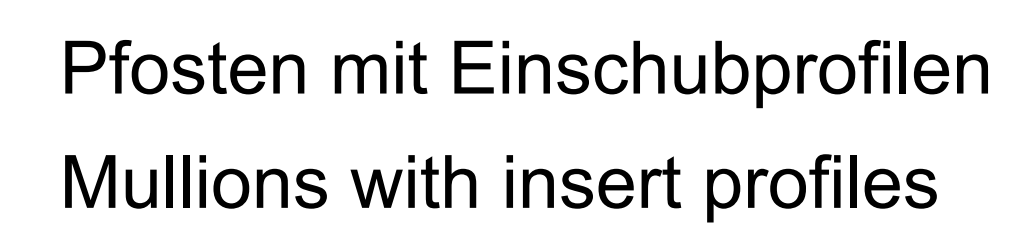
Glas Abmessungen
Glass dimensions
min. 200 x 300mm
max. 2200 x 5000mm

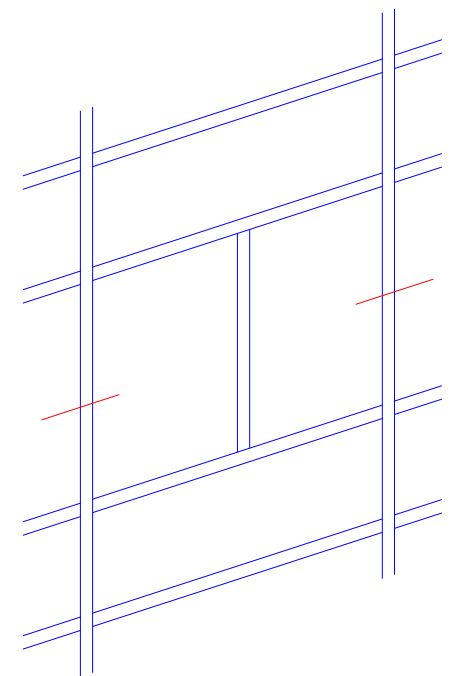
g-Werte in % g values in %		
Zellbelegung Cell configuration	g-Wert * g value	Optische Transparenz Visual transparency
90%	15%	10%
80%	20%	20%
75%	22%	25%
70%	24%	30%
60%	29%	40%
50%	34%	50%
40%	39%	60%
30%	44%	70%

* g-Wert: Der Gesamtenergiedurchlassgrad (g-Wert) ist ein Maß für den Anteil der Sonnenenergie, der durch die Verglasung von außen nach innen dringt.
g value: The overall energy transmission level (g value) measures the proportion of solar energy which passes through the glazing from outside to inside.

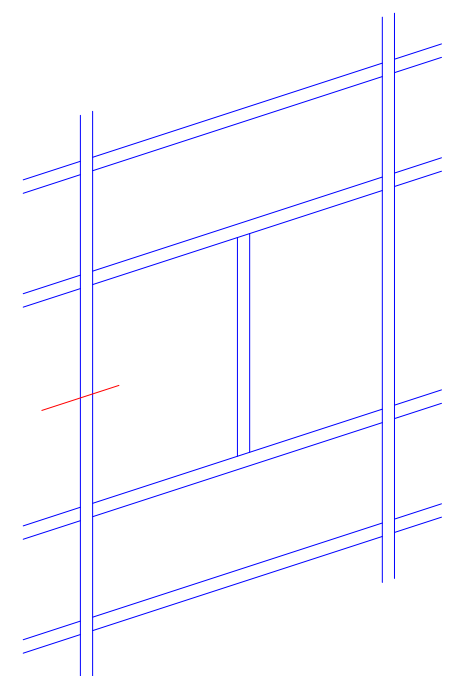
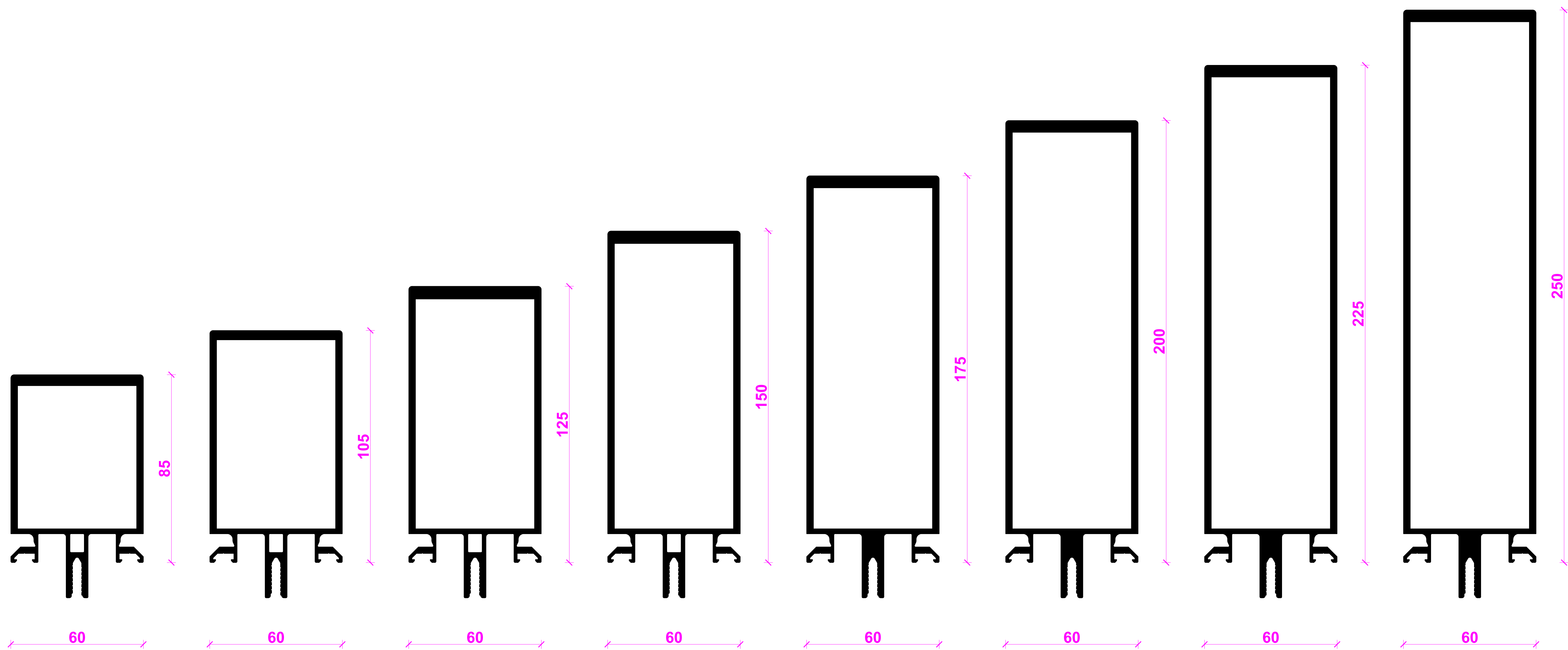
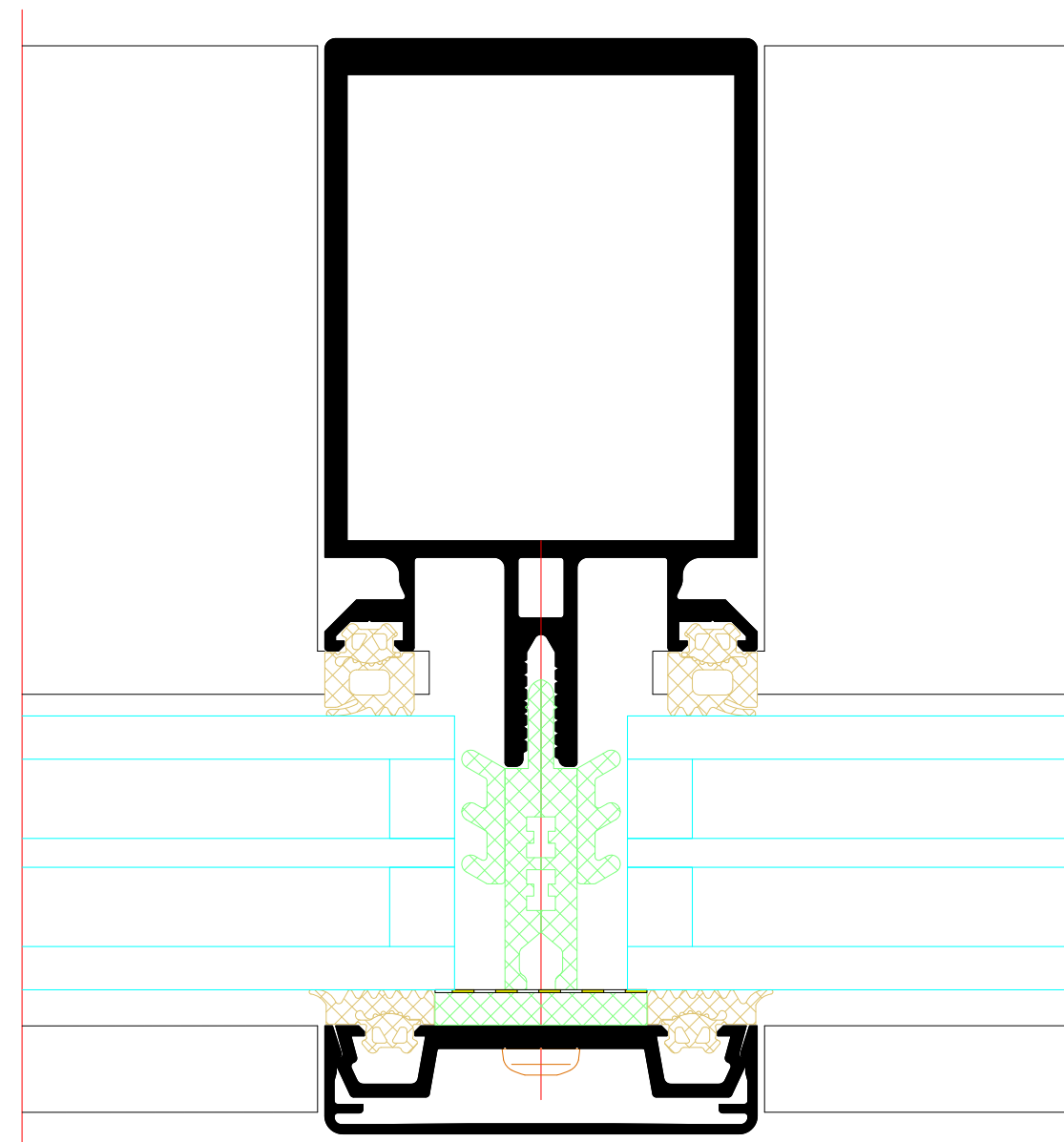
BIPV module, triple insulating glass



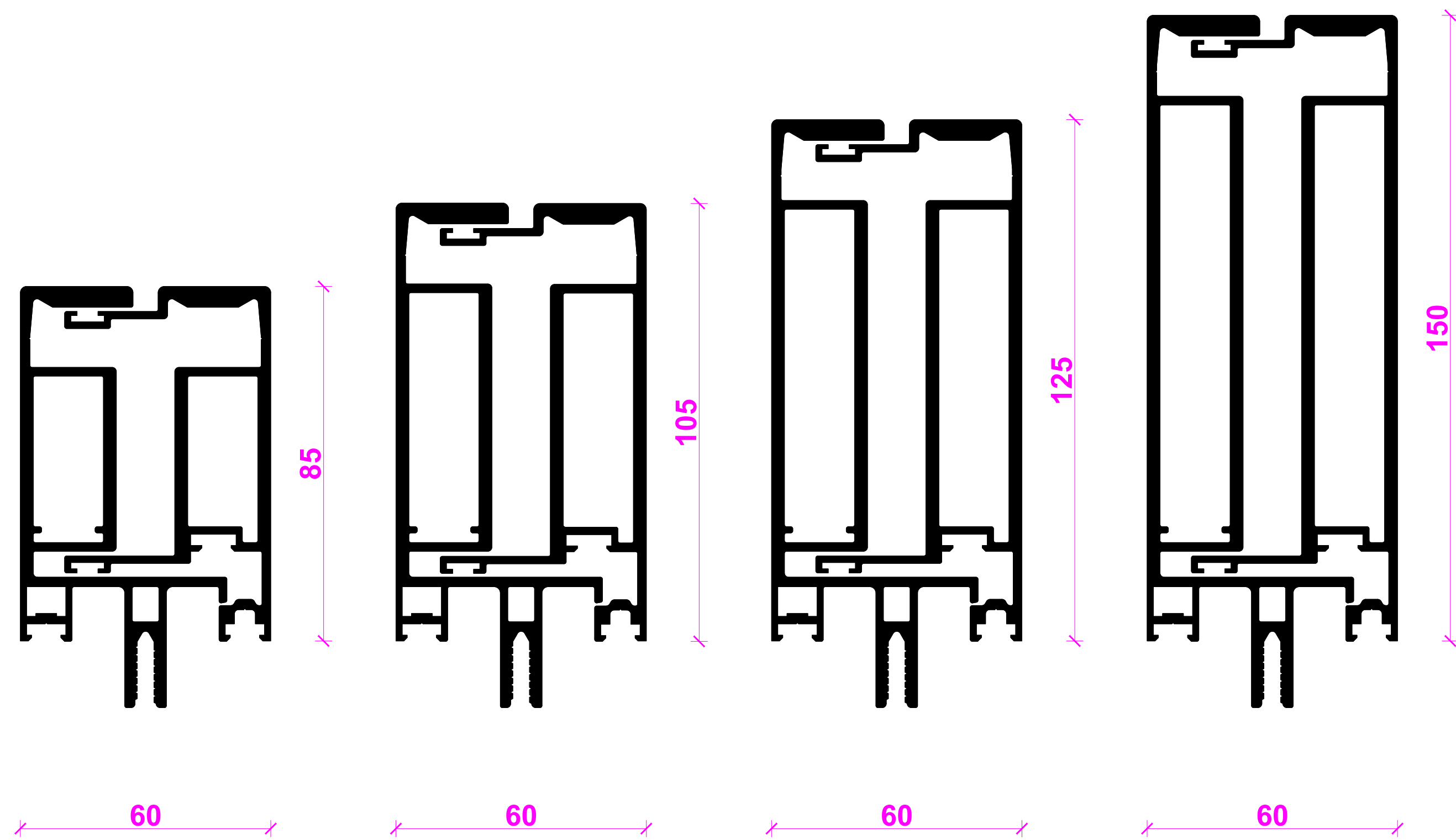
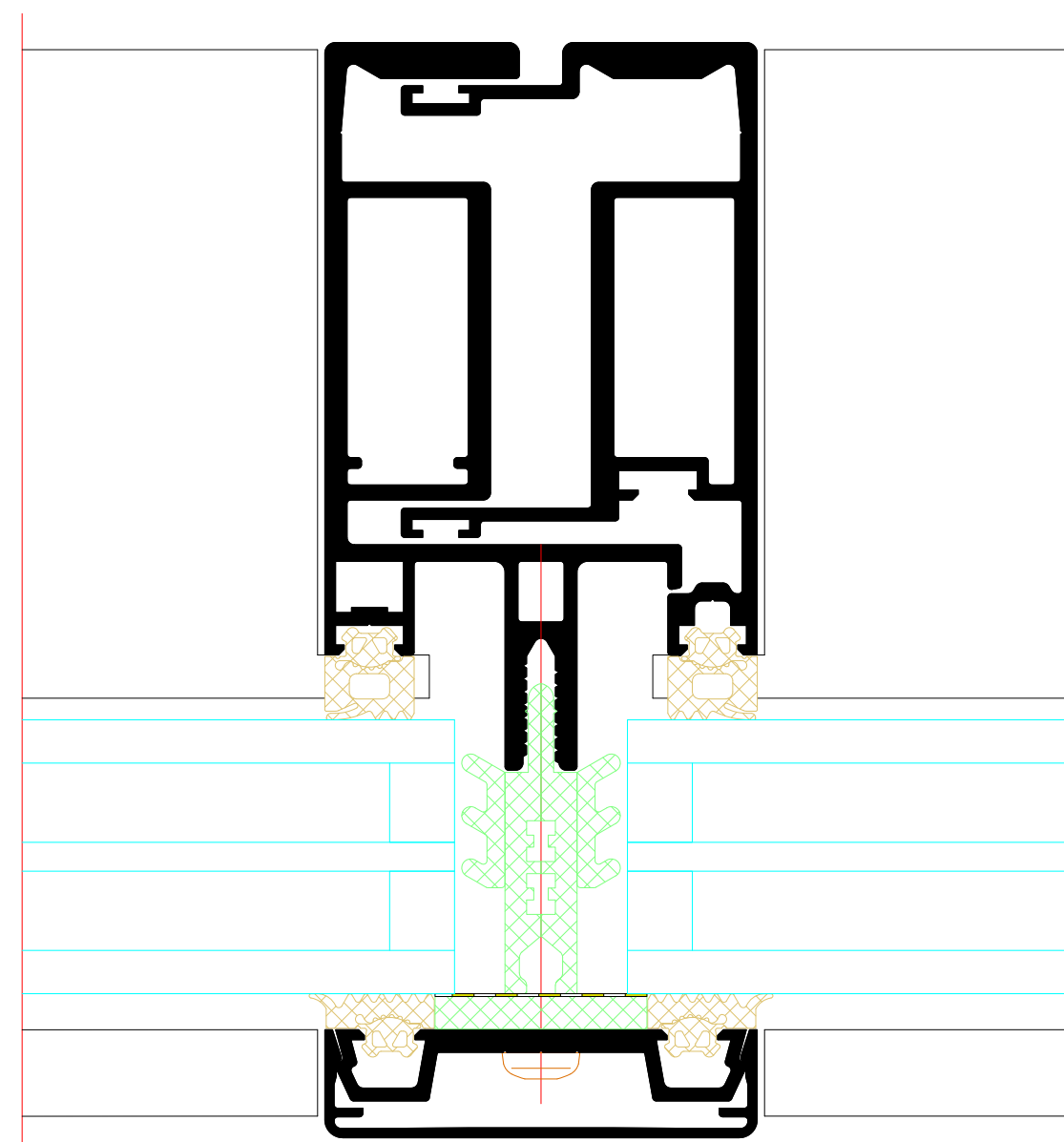


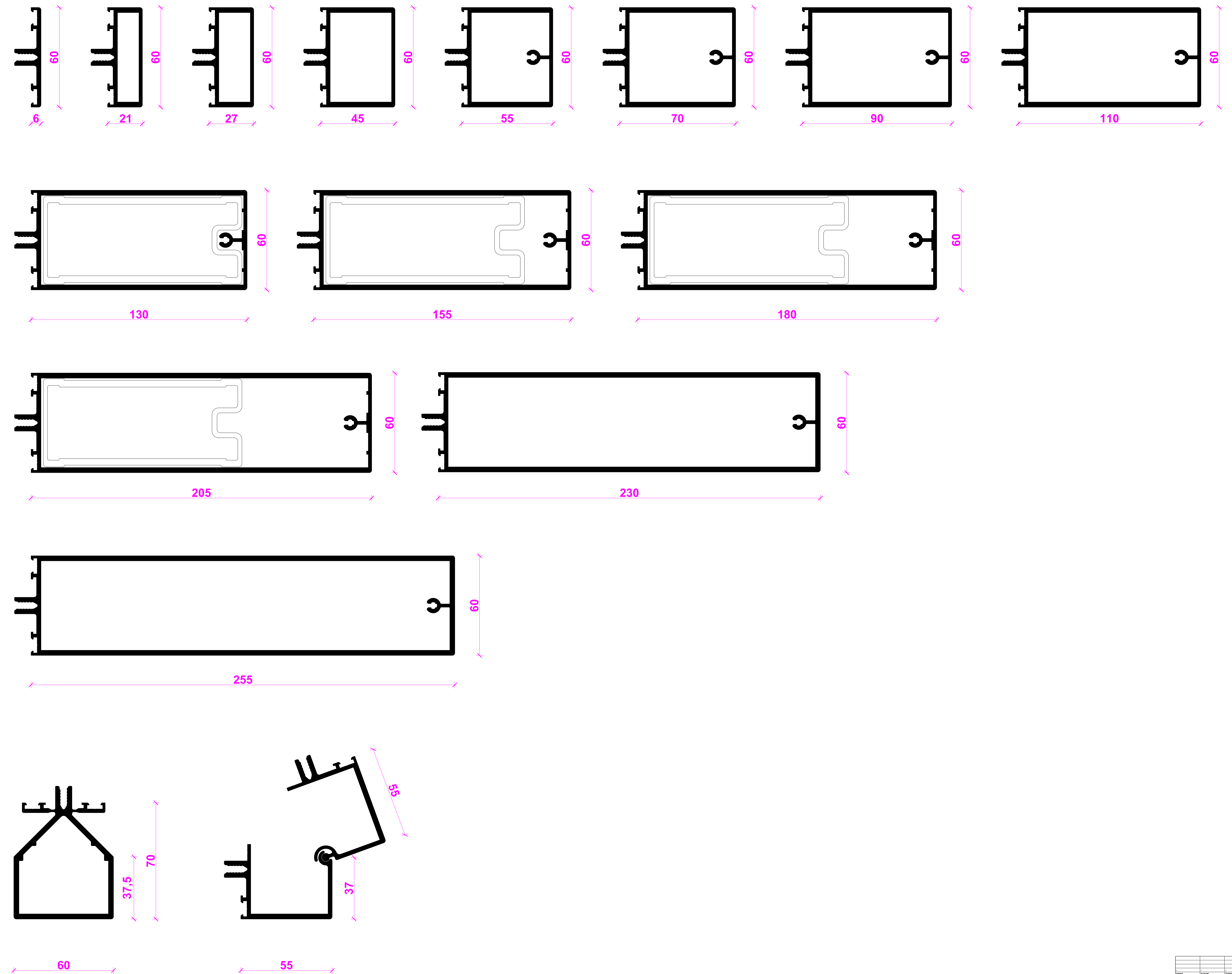
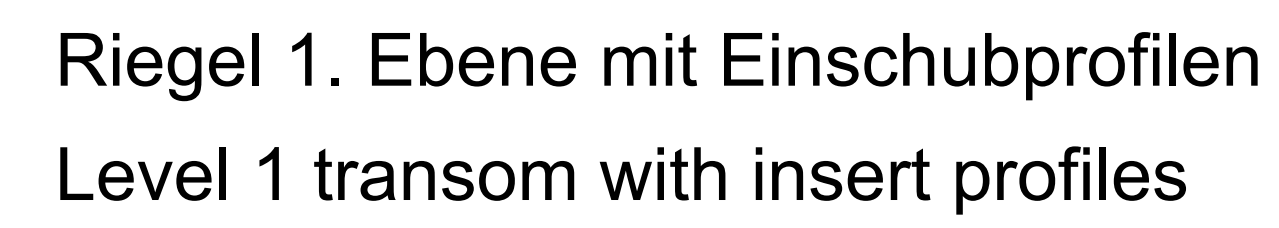


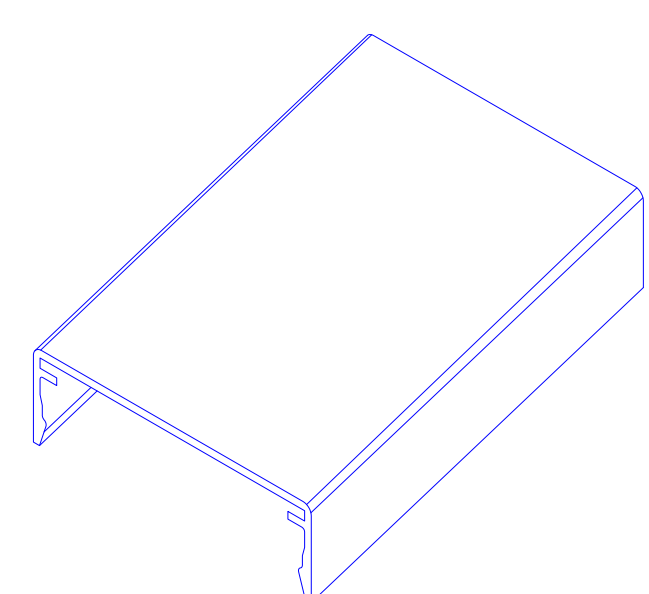
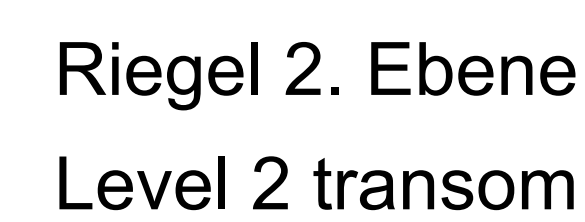
Pfosten abwinkelbar
Variable angle mullions



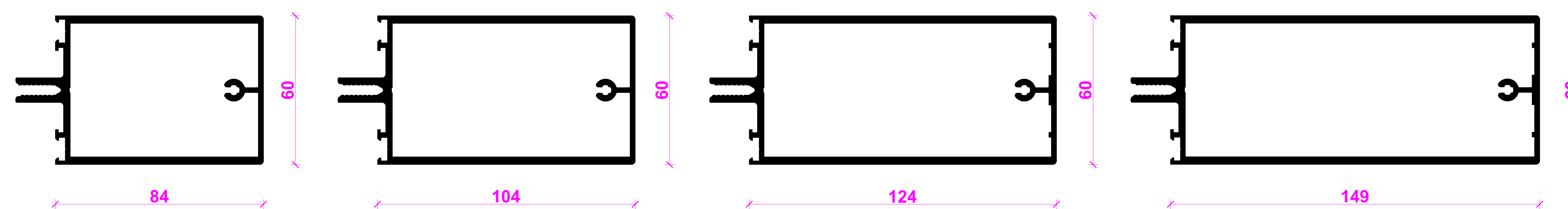
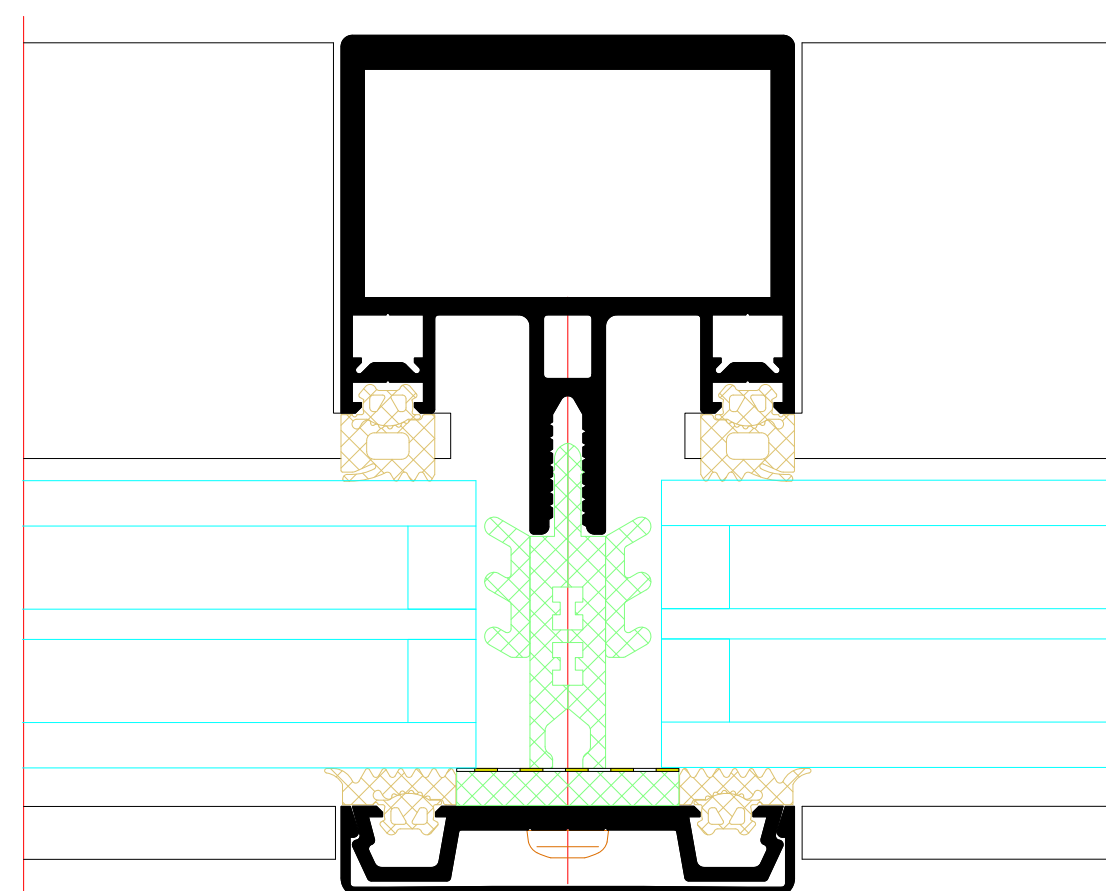
Montagepfosten
Assembly mullions



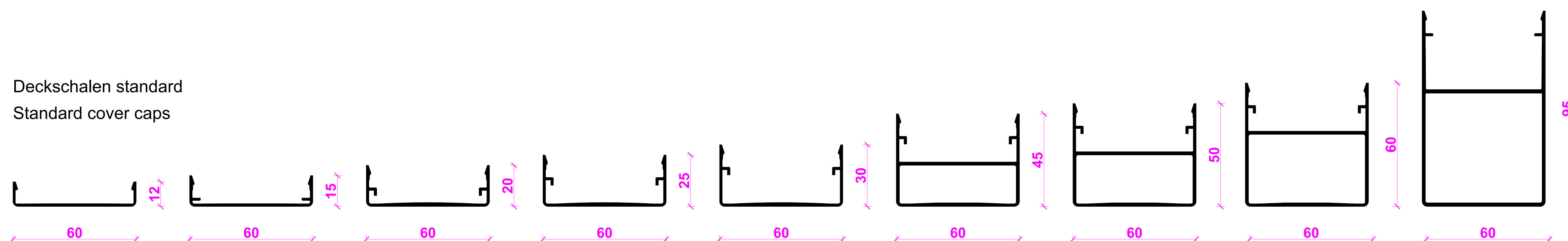
[illegible]



Deckschalen
Cover caps



Deckschalen standard
Standard cover caps



Sonderdeckschalen
Special cover caps

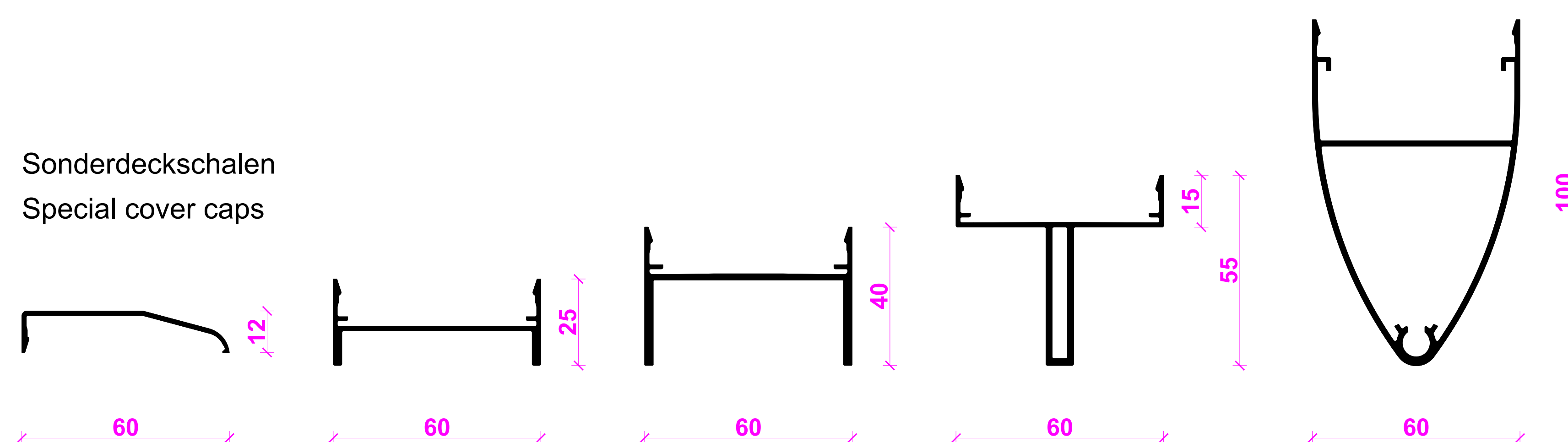
[illegible]



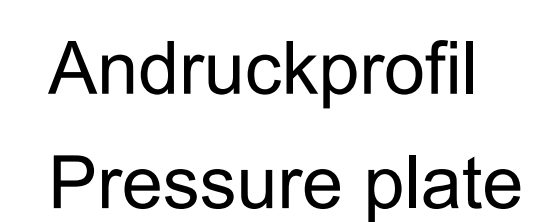
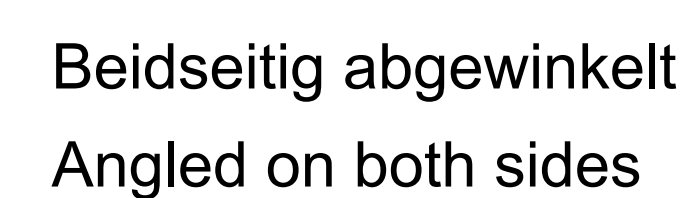
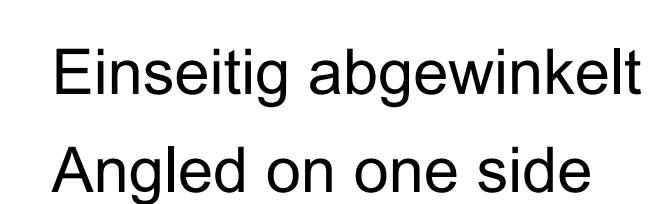
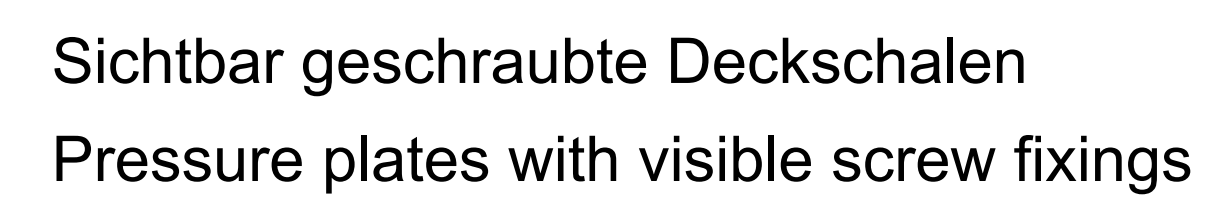
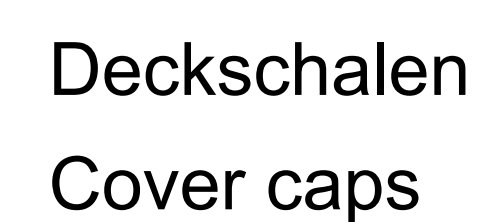
Diagram illustrating the cross-sections of a roof profile for different pitch angles. The profile is shown in black, and the dimensions are indicated in red and blue.

Pitch Angle	Width	Height
7.5°	67.6	8.5
15°	76.3	8.5
22.5°	85.1	8.5
30°	91.9	8.5
37.5°	100.1	8.5
45°	113	8.5

Variable angle on both sides

60 90 6.5 118 122 30°-45° 30°-45°

DATE	DATE	APPROVED	DATE	DESIGNED	DATE	SIGNATURE	DATE
PLA USER		CHARGE		DESIGNED BY		SIGNATURE	
Riva Proffaydesme Riva Profile systems							
PROJECT				PROJECT NO.			
Faccade RIVA FW5 60 SI							
Faccade RIVA FW5 60 SI							
APPROVED							
PLANNED							
PLANNED							
BENEDICT + RIVA				BENEDICT + RIVA GmbH Hohelandsstr. 10 04229 Leipzig, Germany			
ARCHITECTURAL							
CONSTRUCTION							
PLANNING	STATUS	PLANNING	STATUS	DESIGNED	STATUS	SIGNATURE	STATUS
PLANNING	STATUS	PLANNING	STATUS	DESIGNED	STATUS	SIGNATURE	STATUS
DOCUMENT NUMBER							

[illegible]

A detailed technical cross-section diagram of a window assembly. The diagram illustrates the internal structure, including the frame, glazing, and various insulation layers. Key components shown include the frame, glazing, thermal break, and insulation layers. The diagram is labeled with various components and their dimensions, providing a comprehensive view of the window's internal structure.

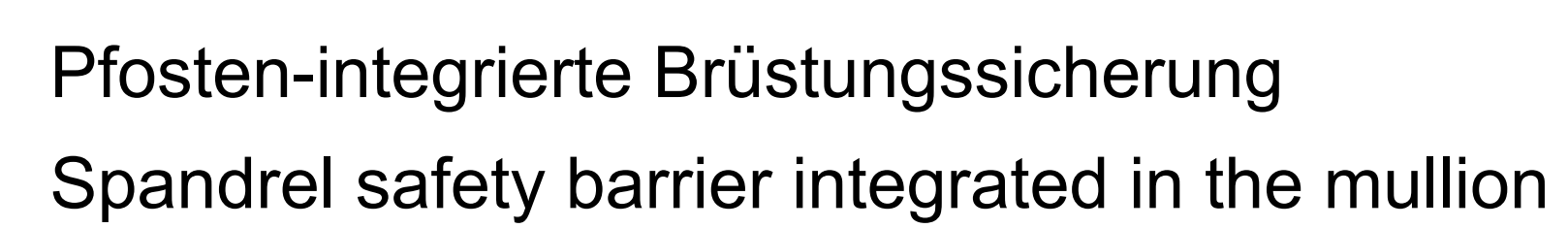
This technical cross-section diagram illustrates a window assembly designed for thermal insulation. The assembly consists of several layers: an outer frame, a central air gap, and multiple insulation layers. The central air gap is filled with a material represented by a green cross-hatch pattern. The insulation layers are shown in various colors (yellow, orange, and grey) and patterns (dots, cross-hatch, and solid). The diagram is set against a background with horizontal blue lines and a vertical red line, likely representing a wall or structural element.

A detailed technical cross-section diagram of a window assembly. The diagram illustrates the thermal insulation structure, showing multiple layers of insulation (indicated by hatched patterns) and structural components. A central vertical channel is filled with insulation, and a red dashed line indicates the center of gravity or a reference axis. The assembly is shown within a frame, with various layers and components labeled with letters and numbers for identification.

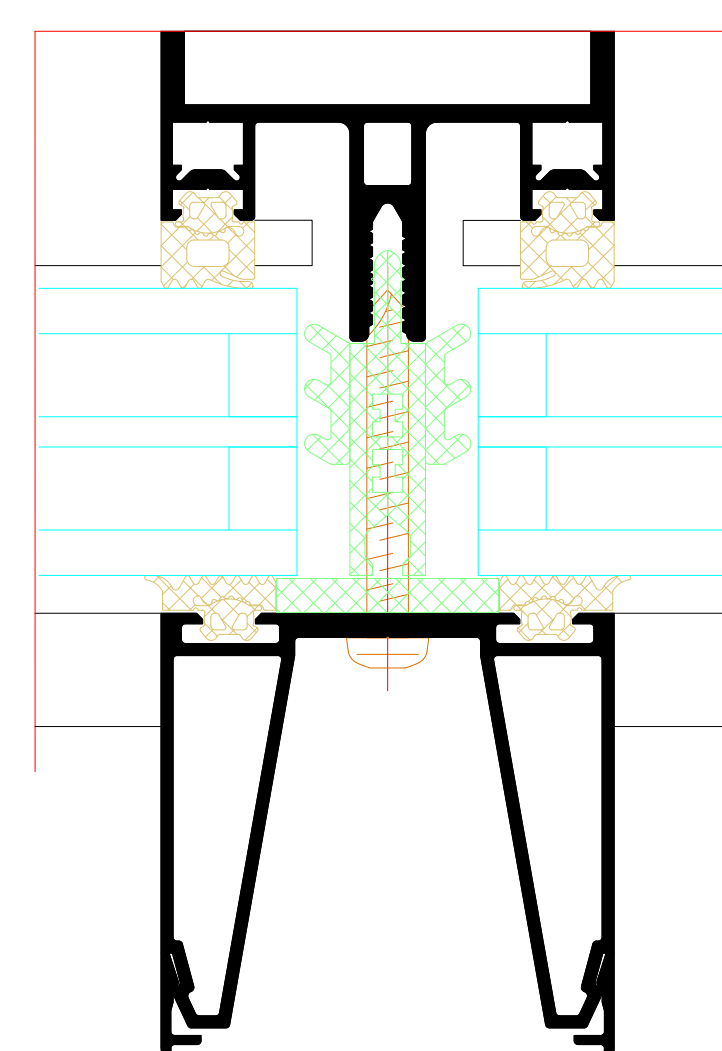
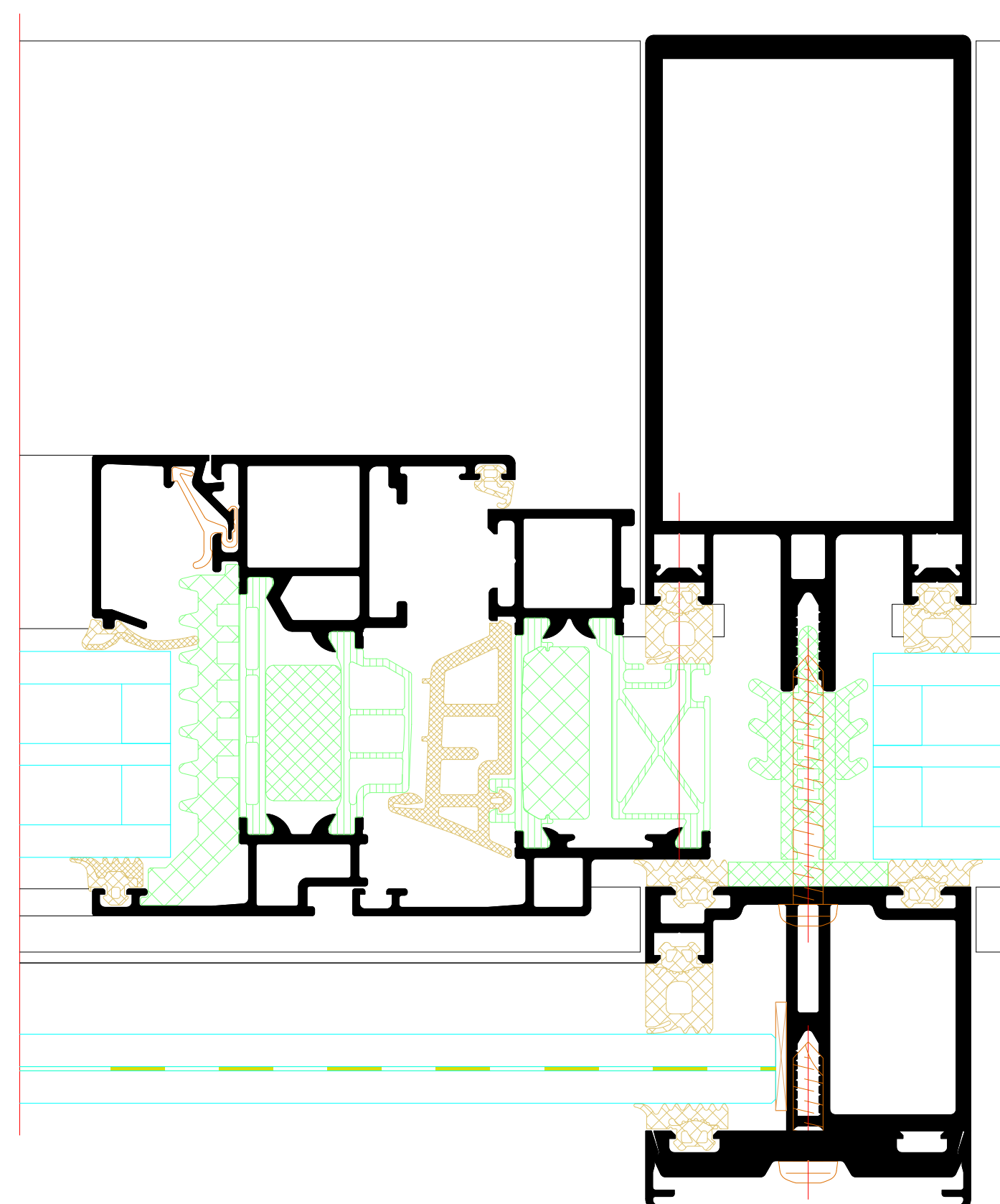
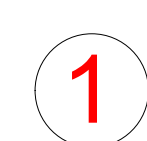
A detailed technical cross-section diagram of a window assembly. The diagram illustrates the thermal break and structural components. At the top, a black frame is shown. Below it, a white thermal break is visible, with black structural elements on either side. The central part of the diagram shows a white thermal break with a black structural element in the middle. The bottom part of the diagram shows a black structural element with a white thermal break. The entire assembly is surrounded by a light blue background, which represents the insulation. The diagram is labeled with 'a' and 'b' at the bottom, indicating different parts of the assembly.

A detailed technical cross-section diagram of a window assembly. The diagram shows a black frame with a central glass pane. The glass is held in place by a gasket and is surrounded by a multi-layered seal system. The seal system includes a primary gasket, a secondary gasket, and a drainage channel. The window is set into a wall structure, which is shown with various layers of insulation and structural material. The diagram uses different colors and patterns to represent different materials: black for the frame, white for the glass, yellow for the primary seal, green for the secondary seal, and blue for the insulation layers. A red line indicates the center of the window assembly.

[illegible]

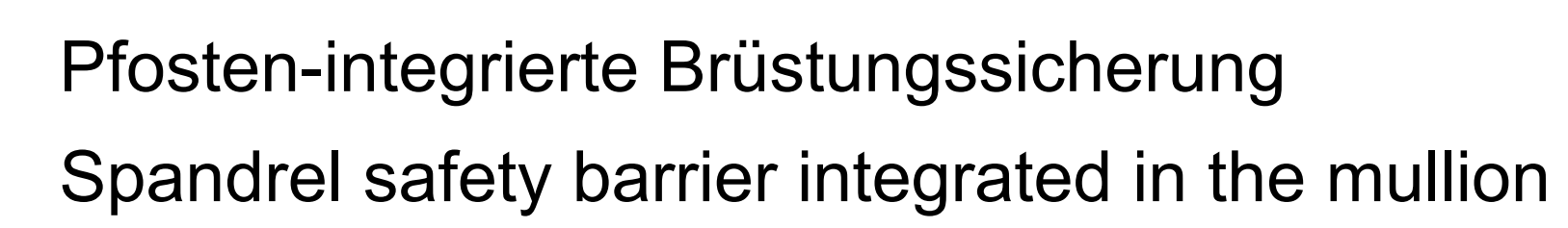


Typ 1
Type 1

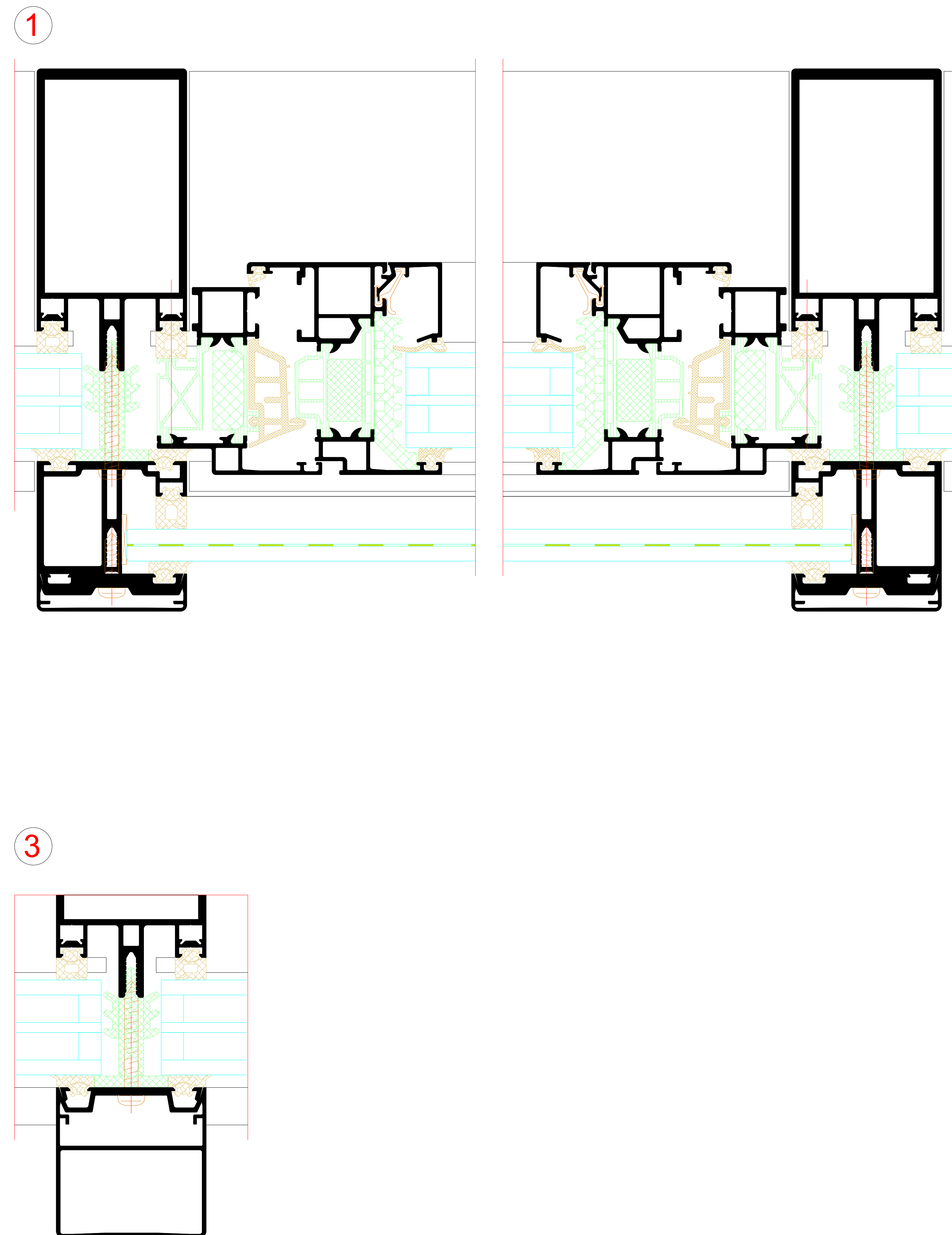


2





Typ 2
Type 2

[illegible]

