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The Premium Outdoor Systems

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Wiessal is Trademark of BTS Aluminium

YALITIMLI GİYOTİN SİSTEM
THERMAL GUILLOTINE GLASS SYSTEM

YALITIMSIZ GİYOTİN SİSTEM
NON-THERMAL GUILLOTINE GLASS SYSTEM

BARROS COMMERCIAL

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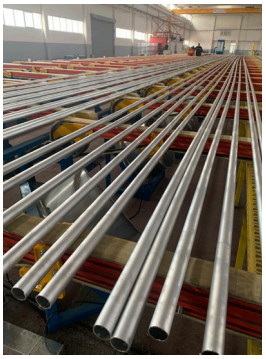
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With the help of years of experience in aluminum systems manufacturing business, BTS Aluminium is started to operate in a new field in which it can provide innovative and sustainable solutions under the brand name of WIESSAL.

WIESSAL systems are manufactured in accordance with international quality standards to meet the highest requirements of the outdoor market. Based on its expertise and the importance it attaches to R&D activities; Analyzes such as thermal performance, impermeability and wind resistance of the systems designed according to different climatic conditions and requirements under the WIESSAL brand are carried out by our engineers. We are determined to introduce premium segment products to the industry in outdoor systems under the WIESSAL brand and to be the best in this field.

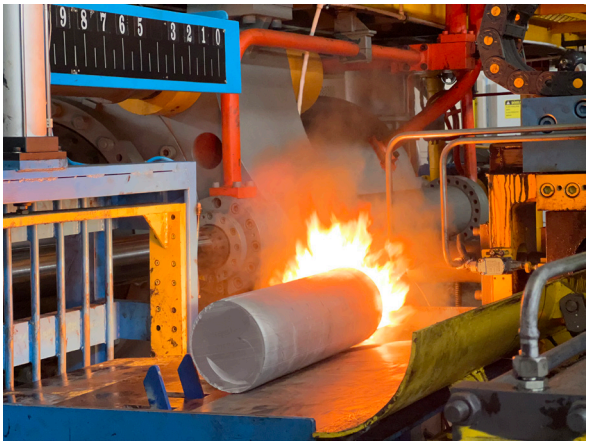
Our product range is;

- Aluminium Extrusions
- Rolling Roof
- Vertical Sliding Guillotine System
- PVC Pergola
- Fixed Veranda / Wintergarden
- Garden Fence Systems
- Retractable Glass / Windbreaker
- Frameless Glass Railing Systems
- Glass Canopy

That's why we say!

"Standards stay the same, innovation never ends!"

We constantly work to satisfy our customers' demands to the very fullest. Our company which has as principles the full customer's satisfaction, best service and high quality in products is exporting the %85 of it's production. We are giving enormous importance to develop continously new products in order to give the best service in this field. Since first day, we have always tried to develop ourselves and our products and offer innovations to our customers.







All Under One Roof

Fast Production & Delivery

High Quality

Individual Approach

Wiessal is registered trademark of BTS Aluminium

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Wiessal GL100 Giyotin Cam Sistem alüminyum/cam panellerden oluşur ve yukardan aşağı dogru dikey bir şekilde açılıp kapanır. Sistem motor ile hareket sağlar ve uzaktan kumanda ile açıp kapatılır. GL100 Giyotin Cam Sistem uygulanacagı yere bağlı olarak 2 panelli, 3 panelli ve 4 panelli olarak üretilebilmektedir. Sistemde yer alan giyotin camlardan ilk sırada yer alan sabittir, diğerleri açılıp kapanabilir. Sistem tamamen açıldığında sabit cam küpeşte görevi görmektedir. Sistem dikey çalışıp yatay çerçeve olarak üretildiğinden panaromik bir görüş hissi sağlar.

Wiessal GL100 Giyotin Cam Sistemi istege bağlı olarak tek camlı ya da daha fazla izolasyon sağlayabilen ısıcamlı şekilde de üretilebilmektedir. Maksimum yalıtım için ısı bariyerleri profil seçeneğide bulunmaktadır.

Sistem temizliğinin daha kolay yapılabilmesi için kanatlar vasistaslı şekilde açılabilir olarak da üretilebilmektedir. Silinebilir Giyotin Cam Sisteminde sistem açılırken hareketli kapak profili olası el ve parmak sıkışmalarını önler.

Sistem profilleri istenilen RAL renginde boyanabilir.

GL100

Wiessal GL100 Giyotin Sistemin Avantajları;

- Tamamen Yalıtımlı Profiller (Opsiyonel)
- Silinebilir Açılır Kanatlar
- Motor Sökme/Takma Kolaylığı
- Yalıtımlı Köşe Dönüş Profilleri
- Kanatlar Üzeri Güvenlik Küpeşte Profili
- 4 Kanatlı Panel Kullanım Olanağı
- Kasa Üstü Kanalları Gizleme Kapakları

Wiessal GL100 Guillotine Glass System consists of aluminum/glass panels and slides vertically from top to bottom. The system moves with a motor and is controlled with a remote control. GL100 Guillotine Glass System can be produced as 2 panels, 3 panels and 4 panels depending on where it will be applied. The first sash of guillotine window in the system is fixed, the others can be opened and closed. When the system is fully opened, it acts as a fixed glass handrail. Since the system works vertically and is produced as a horizontal frame, it provides a panoramic view.

Wiessal GL100 Guillotine Glass System can optionally be produced with single glazing or double glazing, which can provide more insulation. There is also a thermal barrier profiles option for maximum insulation.

In order to make system cleaning easier, the sash windows can also be produced with a stay arm that can be opened. In Cleanable Guillotine Glass System, the moving cover profile prevents possible hand and finger jams when opening the system.

System profiles can be painted in any RAL color.



The Advantages of Wiessal GL100 Guillotine System;

- Fully Integrated Thermal Break Profiles (Optional)
- Cleanable Opening Sash
- Ease of Tubular Motor Removal and Installation
- Thermal Break Corner Profiles
- Safety Handrail Profile on Sash
- 4 Sash Usage Possibility
- Cover Profiles for Hiding Frame Channels

SİLİNEBİLİR GİYOTİN SİSTEM

CLEANABLE GUILLOTINE GLASS SYSTEM



Dikey olarak çalışan tasarımı sayesinde panoromik görüş hissi sağlar.
It provides a panoramic view thanks to its vertical running design.

Kurulumu hızlı ve kolaydır.
It is quick and easy to install.

Kumanda ile kolaylıkla kontrol edilebilir.
It can be easily controlled with the remote control.

Korkuluk işlevi sağlar.
Provides railing function.

Doğal havalandırma sağlar.
Provides natural ventilation.

Sistem profilleri talep edilen renkte üretilir.
System profiles are produced in the requested color.

Sistem açılırken hareketli kapak profili olası el ve parmak sıkışmalarını önler.
The movable cover profile prevents possible hand and finger entrapment when the system is opened.

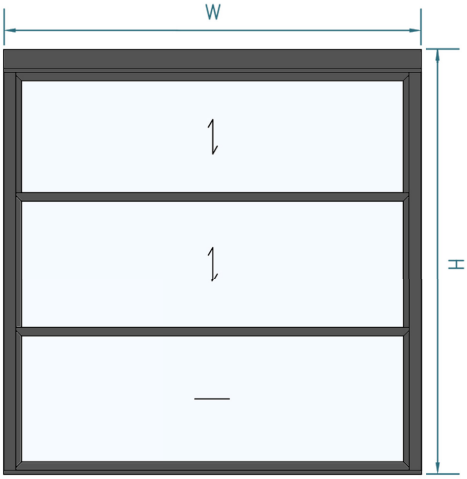
Ses izolasyonu sağlar.
Provides sound insulation.

Isı izolasyonu sağlar.
Provides thermal insulation.

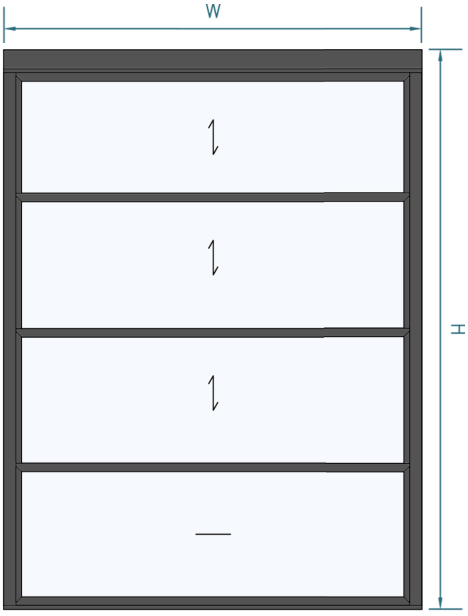
Kolay temizlenir.
Easy to clean.

TEKNİK ÖZELLİKLER

TECHNICAL CHARACTERISTICS

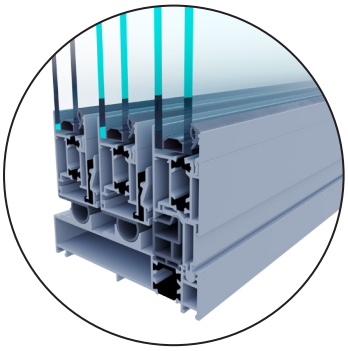


3 PANELLİ
3 PANELS

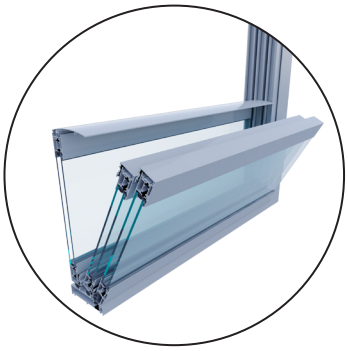


4 PANELLİ
4 PANELS

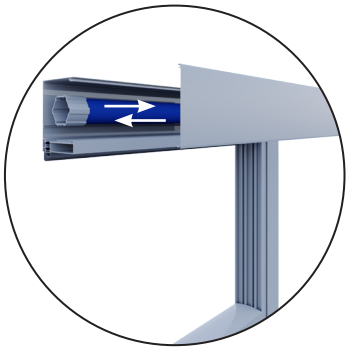
Cam Panel Sayısı Number of Glass Panels	**3 Panelli, 4 Panelli** 3 Panels, 4 Panels
3 Panelli İçin Maksimum Yükseklik ve Genişlik Maximum Height and Width for 3 Panels	**Maks. W: 3500mm H: 4000mm** Max. W: 3500mm H:4000mm
4 Panelli İçin Maksimum Yükseklik ve Genişlik Maximum Height and Width for 4 Panels	**Maks. W: 3500mm H: 5000mm** Max. W: 3500mm H:5000mm
Kanat Derinliği Sash Width	**32 mm**
Kasa Derinliği Frame Width	**124,5 mm**
Isı Bariyer Materyali Thermal Break Material	**Polyamid PA66** Poliamid PA66
Tek Cam Kalınlığı Single Glass Thickness	**8 mm, 10 mm**
Isıcam Kalınlığı Double Glazing Thickness	**4+12+4 mm, 4+16+4 mm**
Yüzey Kaplama Surface Coating	**Elektrostatik Toz Boya** Electrostatic Powder-Coating
Profil Rengi Profile Color	**Opsiyonel** Optional
Hareketli Kapak Profili (El ve Parmak Koruması) Movable Cover Profile (Hand and Finger Protection)	✓
Silinebilir Açılır Kanatlar Cleanable Opening Sash	✓
Motor Tipi Motor Type	**Somfy Motor** Somfy Motor



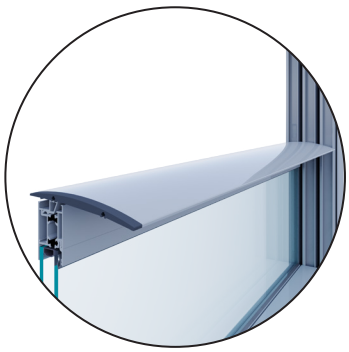
Tamamen Yalıtımlı Profiller (Opsiyonel)
Fully Integrated Thermal Break Profiles (Optional)



Silinebilir Açılır Kanatlar
Cleanable Opening Sash



Motor Sökme/Takma Kolaylığı
Ease of Motor Removal and Installation



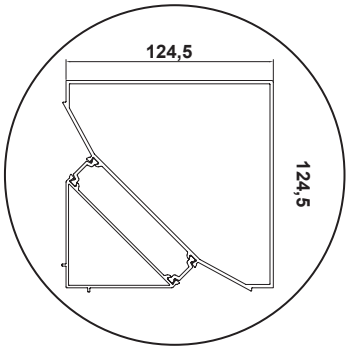
Kanatlar Üzeri Güvenlik Küpeşte Profili
Safety Handrail Profile on Sash

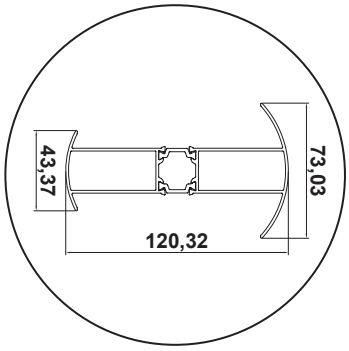


4 Kanatlı Panel Kullanım Olanağı
4 Sash Usage Possibility



Kasa Üstü Kanalları Gizleme Kapakları
Cover Profiles for Hiding Frame Channels





Yalıtımlı Köşe Dönüş Profilleri
Thermal Break Corner Profiles



GL100 GİYOTİN SİSTEM İÇİN KULLANIM LİMİTLERİ DİYAGRAMLARI

USAGE LIMITS DIAGRAMS FOR GL100 GUILLOTINE SYSTEM

Diyagramlar Hakkında Bilgi (Information About The Diagrams) :

Tabloda verilen eğriler; takviyeli ya da takviyesiz olan kenet profillerinin toplam atalet değerine ve 60, 96 ve 132 kg/m² olmak üzere 3 farklı rüzgar yüküne bağlı olarak ayrı ayrı çizilmiştir. Eğrilerin altında kalan taralı bölgeler o rüzgar yüküne göre "uygulanabilir" ebatları ifade etmektedir.
(The curves in the table; drew according to the inertia value of the clamp profiles and the wind loads of 60, 96 and 132 kg/m². The hatched area below the curves according to the selected wind load mean "applicable" dimensions.)

Açılım Mekanizmasının Çalışma Limitleri (Limits of Opening Accessory) :

Minimum-Maksimum Doğrama Genişlikleri (Minimum-Maximum Frame Width) : 1000mm - 3500mm

Minimum-Maksimum Doğrama Yükseklikleri (Minimum-Maximum Frame Height) : 1500mm - 5000mm

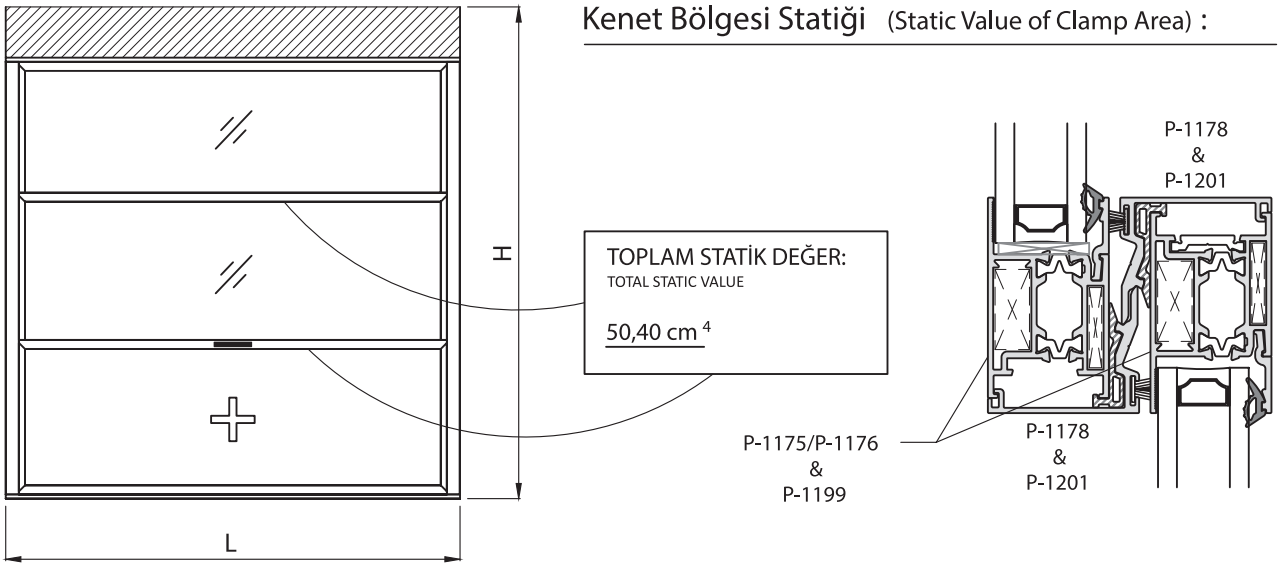
Maksimum Açılır Tek Kanat Ağırlığı (Maximum Opening Single Sash Weight) : 100 Kg

Statik Hesaplamaların Sınırları (Limits of Static Calculations) :

H : Doğrama Yüksekliği (Casement Height)

L : Doğrama Genişliği (Casement Width)

Sehim Kriteri (Deflection Criteria) : H / 200



Kenet Bölgesi Statiği (Static Value of Clamp Area) :

STATİK HESAPLARDA KULLANILAN STANDARTLAR (STANDARDS USING WITH STATIC CALCULATIONS) :

TS 498 (DIN 1055) , TS EN 13830

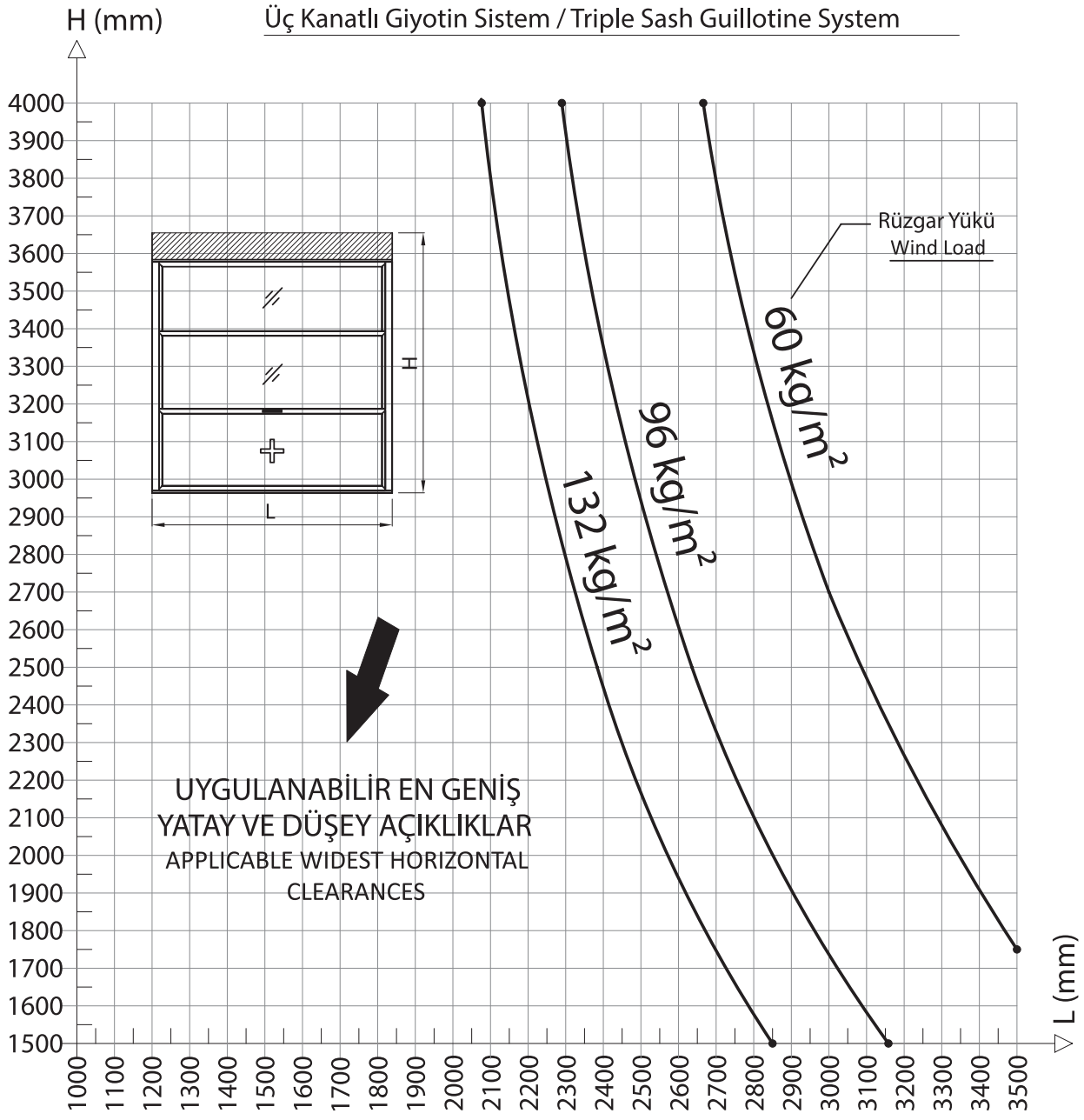
Rüzgar Yükleri (Wind Load) :

Statik hesaplama öncesinde TS 498 standardına göre oluşturulmuş aşağıdaki tabloda görüleceği üzere; doğramanın kullanılacağı yapının zeminden yüksekliğine karşılık gelen rüzgar yükü referans değer olarak alınır. (Can be seen in the table below, which was created according to the TS 498 standard before the static calculation; The wind load corresponding to the height of the building where the casement will be used is taken as a reference value.)

ZEMİNDEN YÜKSEKLİK (m) GROUND ELEVATION	RÜZGAR HIZI (km/h) WIND SPEED	HIZ BASINCI (kg/m²) ABSORPTION	RÜZGAR YÜKÜ (kg/m²) WIND LOAD
0 - 8	101	50	60
9 - 20	130	80	96
21 - 100	151	110	132

DİYAGRAM: 1 RÜZGAR YÜKÜNE BAĞLI STATİK DİYAGRAMI

DIAGRAM NO: 1 STATIC DIAGRAM ACCORDING TO THE WIND LOAD

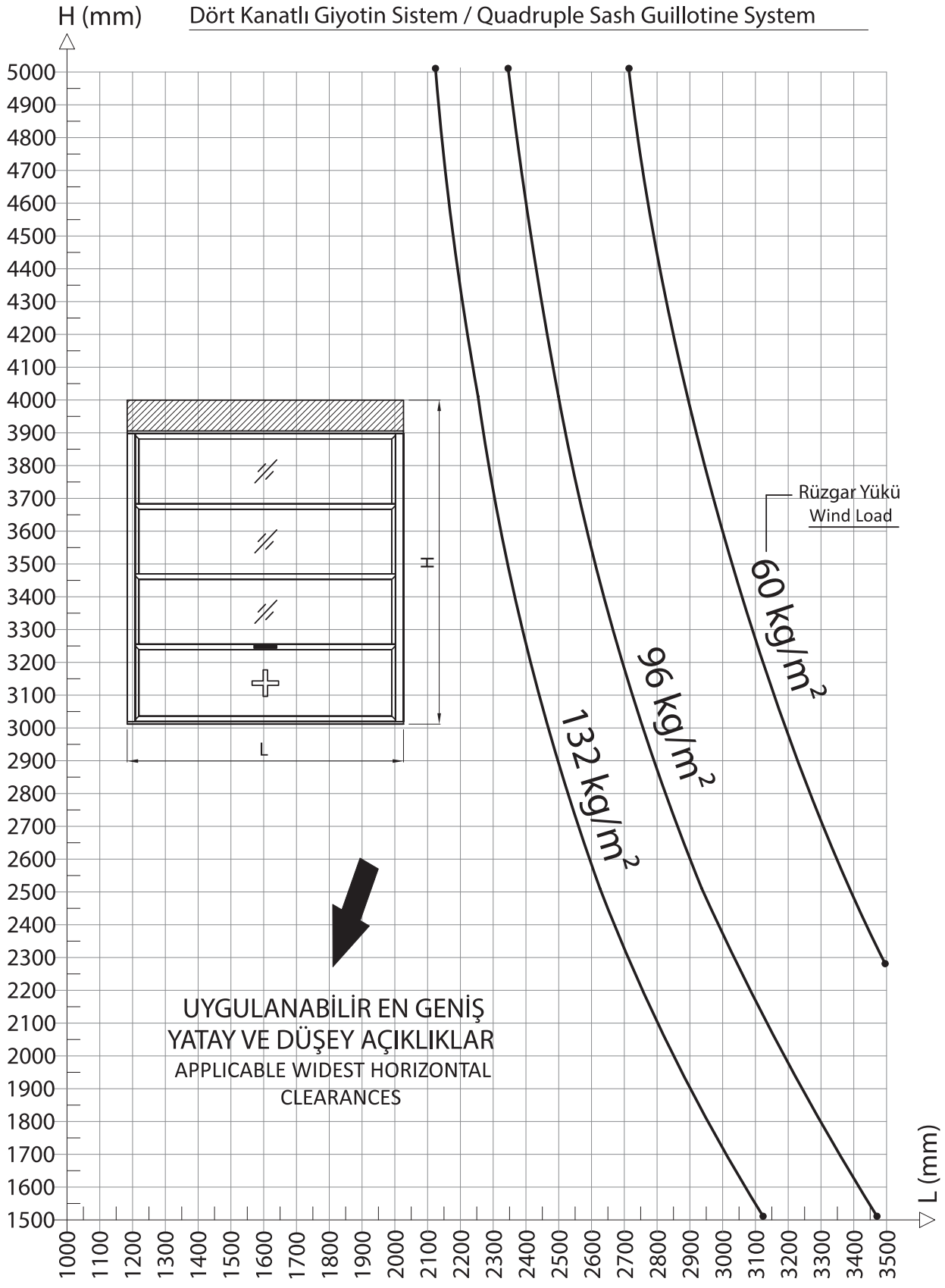


DOĞRAMA MONTAJ YÜKSEKLİĞİ (TS 498'e göre);
0-8m arasında ise alınacak rüzgar yükü 60 kg/m²,
9-20m arasında ise alınacak rüzgar yükü 96 kg/m²,
21-100m arasında ise alınacak rüzgar yükü 132 kg/m²,
olarak alınmalıdır.

CASEMENT MOUNTING HEIGHT (according to TS 498);
If it is between 0-8m, the wind load to be taken is 60 kg/m²,
If it is between 9-20m, the wind load to be taken is 96 kg/m²,
If it is between 21-100m, the wind load to be taken is 132 kg/m²,
should be taken.

DİYAGRAM: 2 RÜZGAR YÜKÜNE BAĞLI STATİK DİYAGRAMI

DIAGRAM NO: 2 STATIC DIAGRAM ACCORDING TO THE WIND LOAD



DOĞRAMA MONTAJ YÜKSEKLİĞİ (TS 498'e göre);
0-8m arasında ise alınacak rüzgar yükü 60 kg/m²,
9-20m arasında ise alınacak rüzgar yükü 96 kg/m²,
21-100m arasında ise alınacak rüzgar yükü 132 kg/m²,
olarak alınmalıdır.

CASEMENT MOUNTING HEIGHT (according to TS 498);
If it is between 0-8m, the wind load to be taken is 60 kg/m²,
If it is between 9-20m, the wind load to be taken is 96 kg/m²,
If it is between 21-100m, the wind load to be taken is 132 kg/m²,
should be taken.









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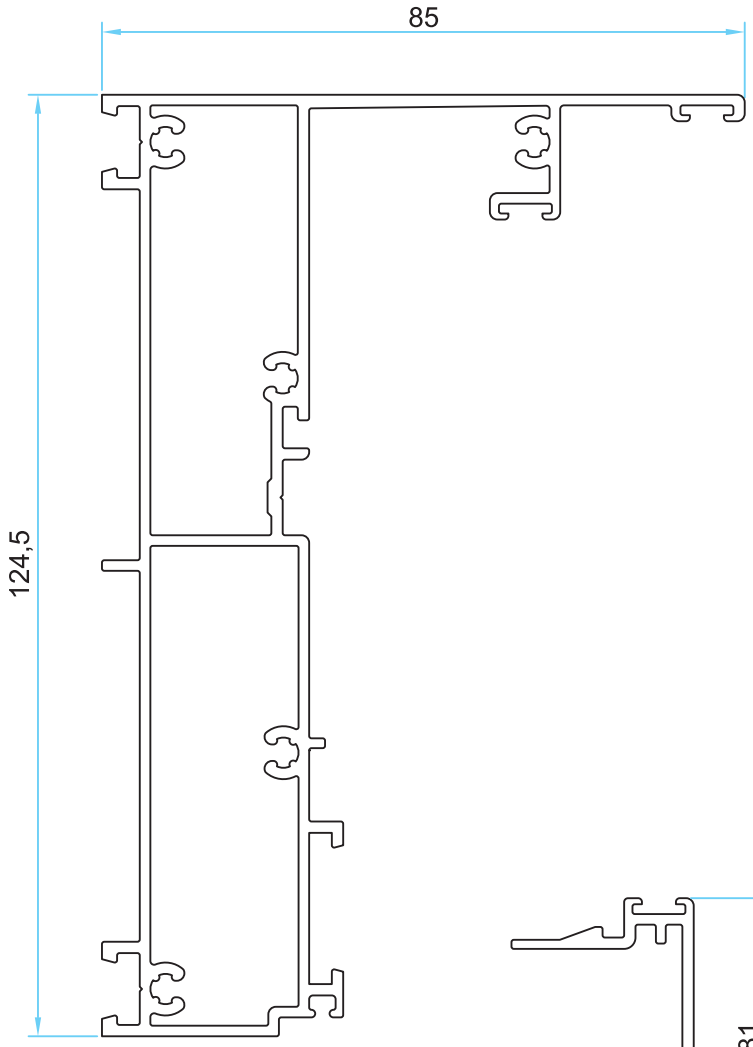
YALITIMSIZ GİYOTİN SİSTEM

NON-THERMAL GUILLOTINE GLASS SYSTEM

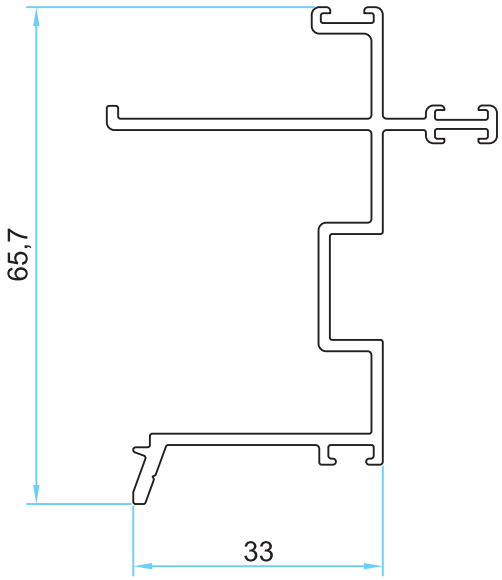
GL100

YALITIMSIZ GİYOTİN SİSTEM PROFİLLERİ

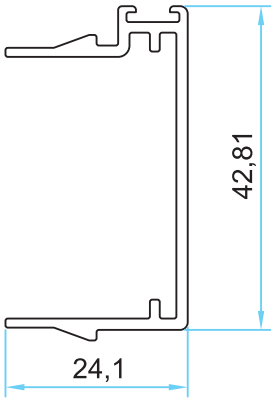
NON-THERMAL GUILLOTINE SYSTEM PROFILES



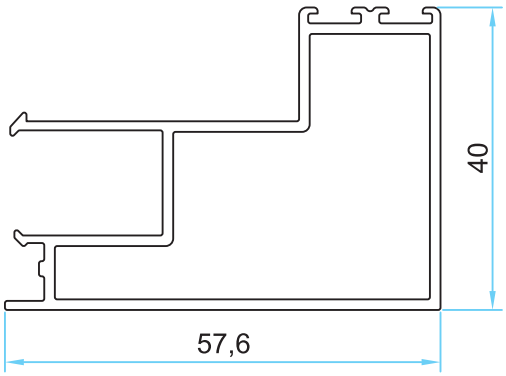
Code: **P-1198**
2,046 kg/m



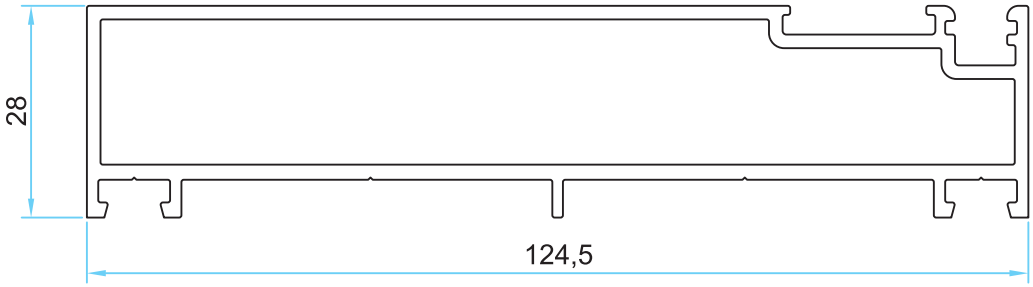
Code: **P-1169**
0,753 kg/m



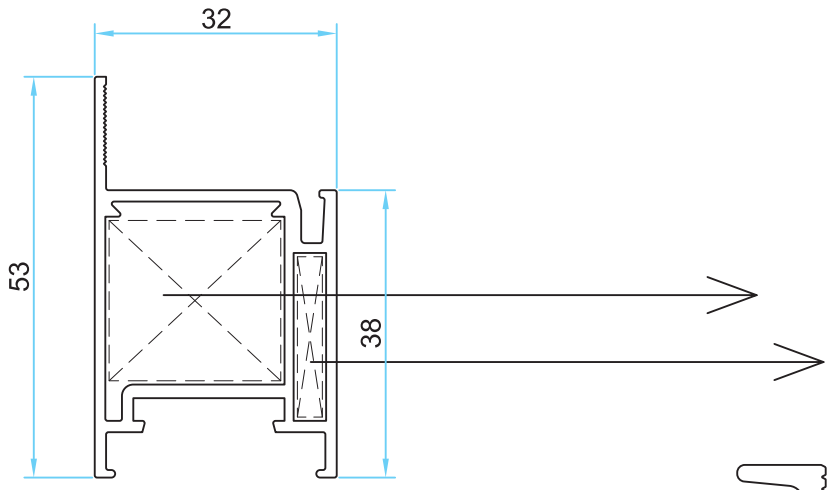
Code: **P-1171**
0,425 kg/m



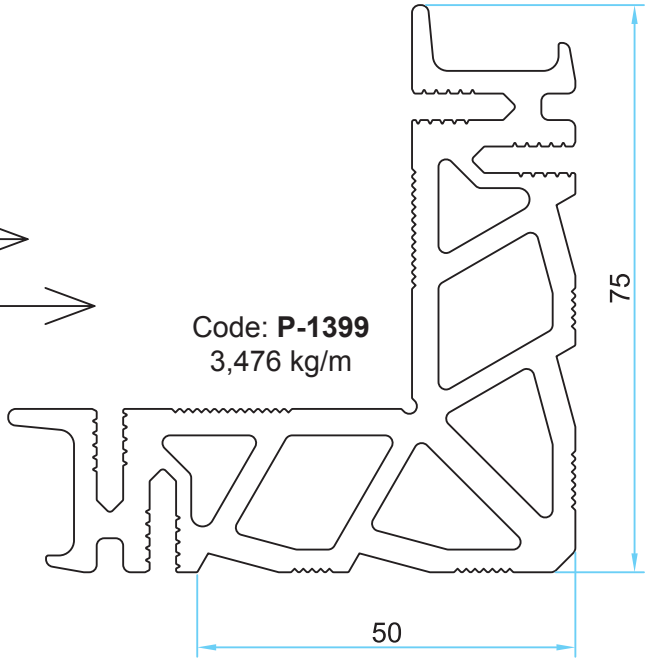
Code: **P-1172**
0,845 kg/m



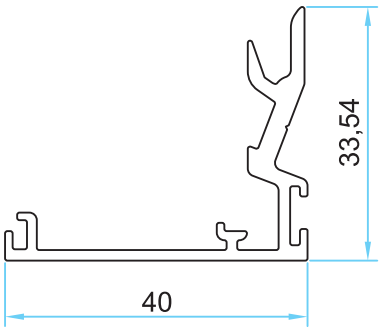
Code: **P-1202**
1,658 kg/m



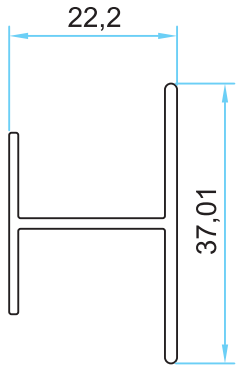
Code: **P-1199**
0,802 kg/m



Code: **P-1399**
3,476 kg/m

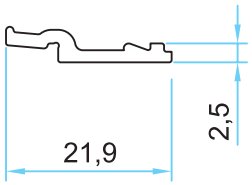


Code: **P-1201**
0,471 kg/m

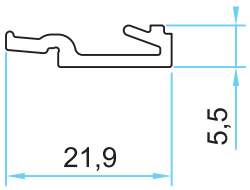


Code: **P-1179**
0,310 kg/m

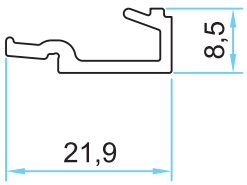
Code: **P-1183**
0,124 kg/m

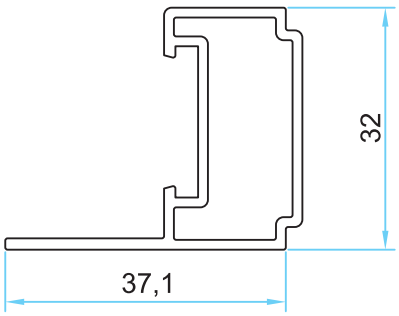


Code: **P-1184**
0,150 kg/m

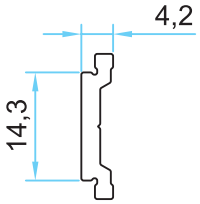


Code: **P-1185**
0,162 kg/m



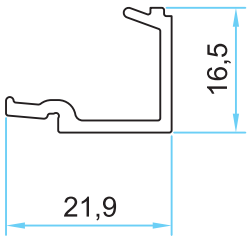


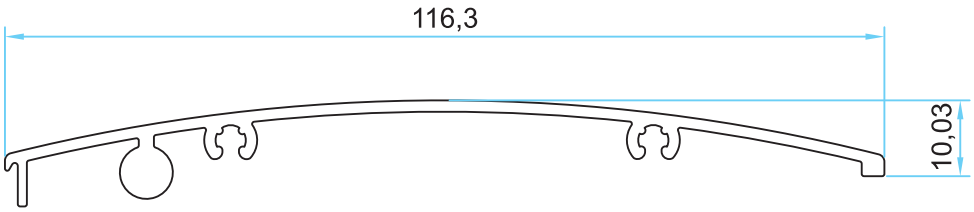
Code: **P-1200**
0,515 kg/m



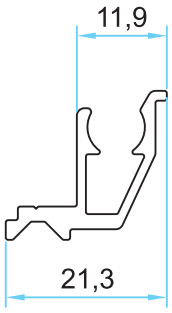
Code: **P-1182**
0,138 kg/m

Code: **P-1186**
0,195 kg/m

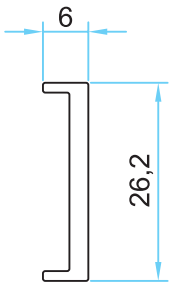




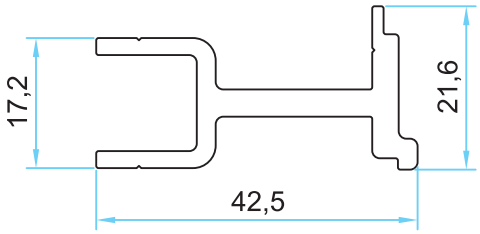
Code: **P-1187**
0,711 kg/m



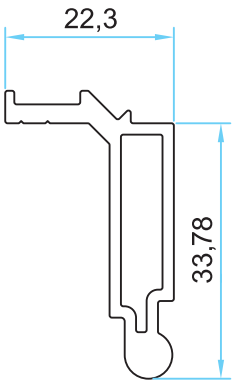
Code: **P-1188**
0,235 kg/m



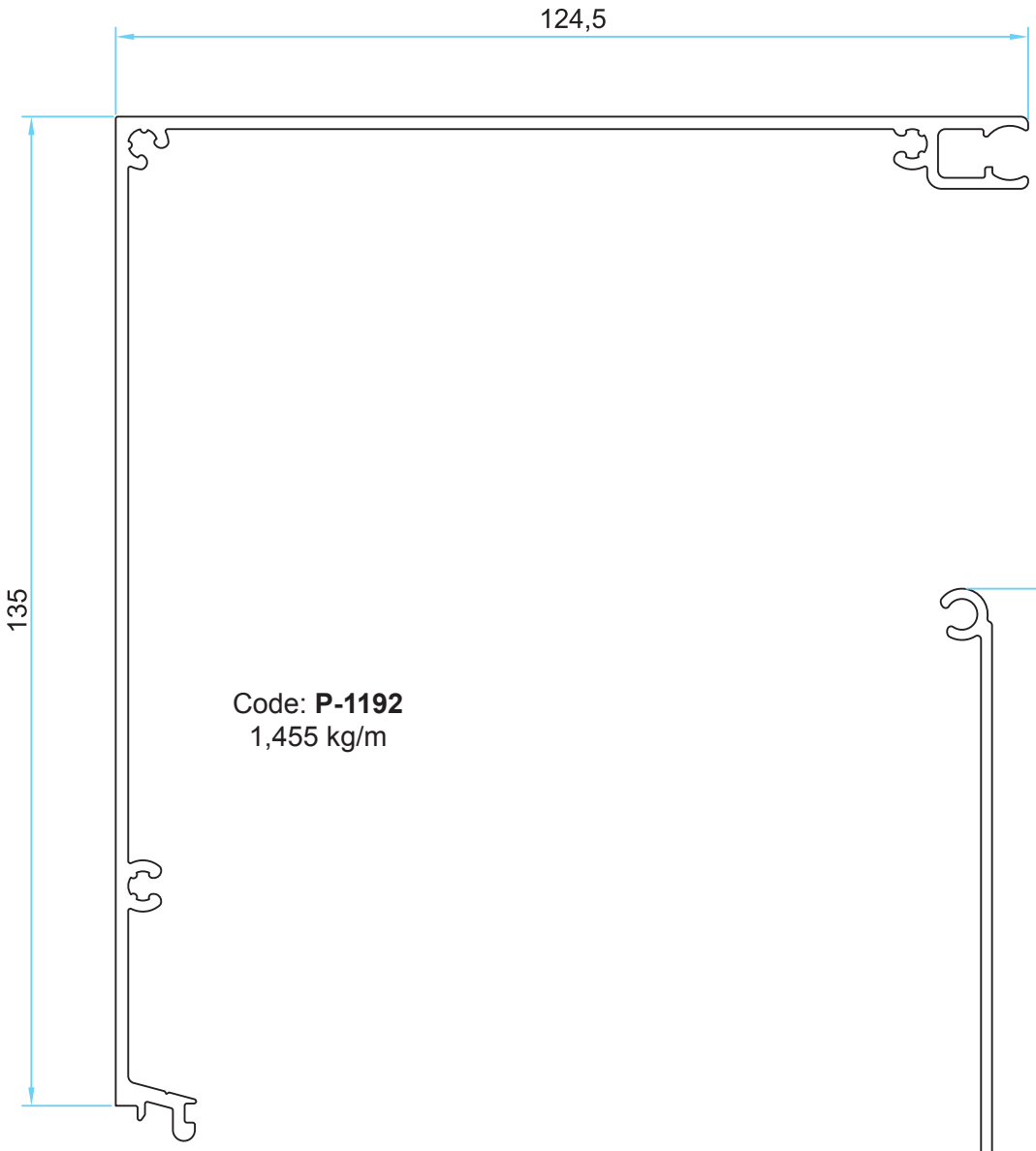
Code: **P-1189**
0,202 kg/m



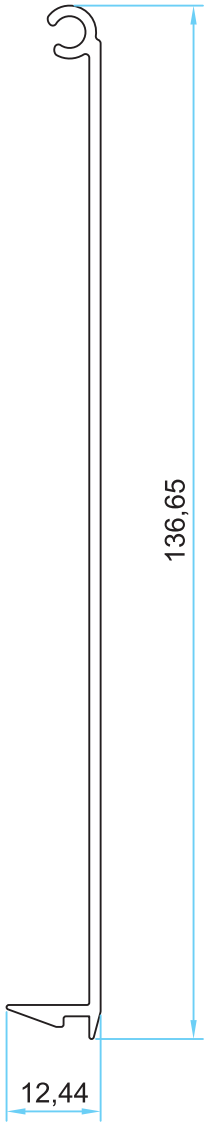
Code: **P-1190**
0,663 kg/m



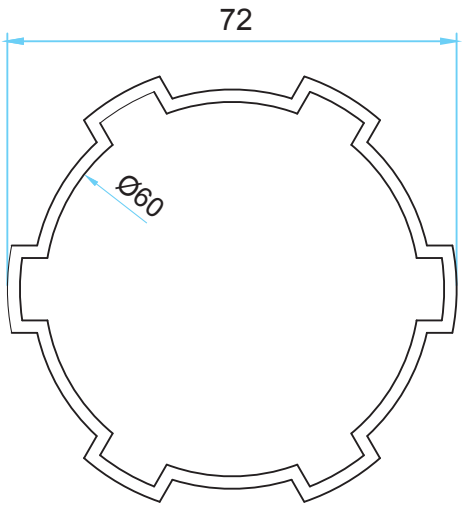
Code: **P-1191**
0,476 kg/m



Code: **P-1192**
1,455 kg/m

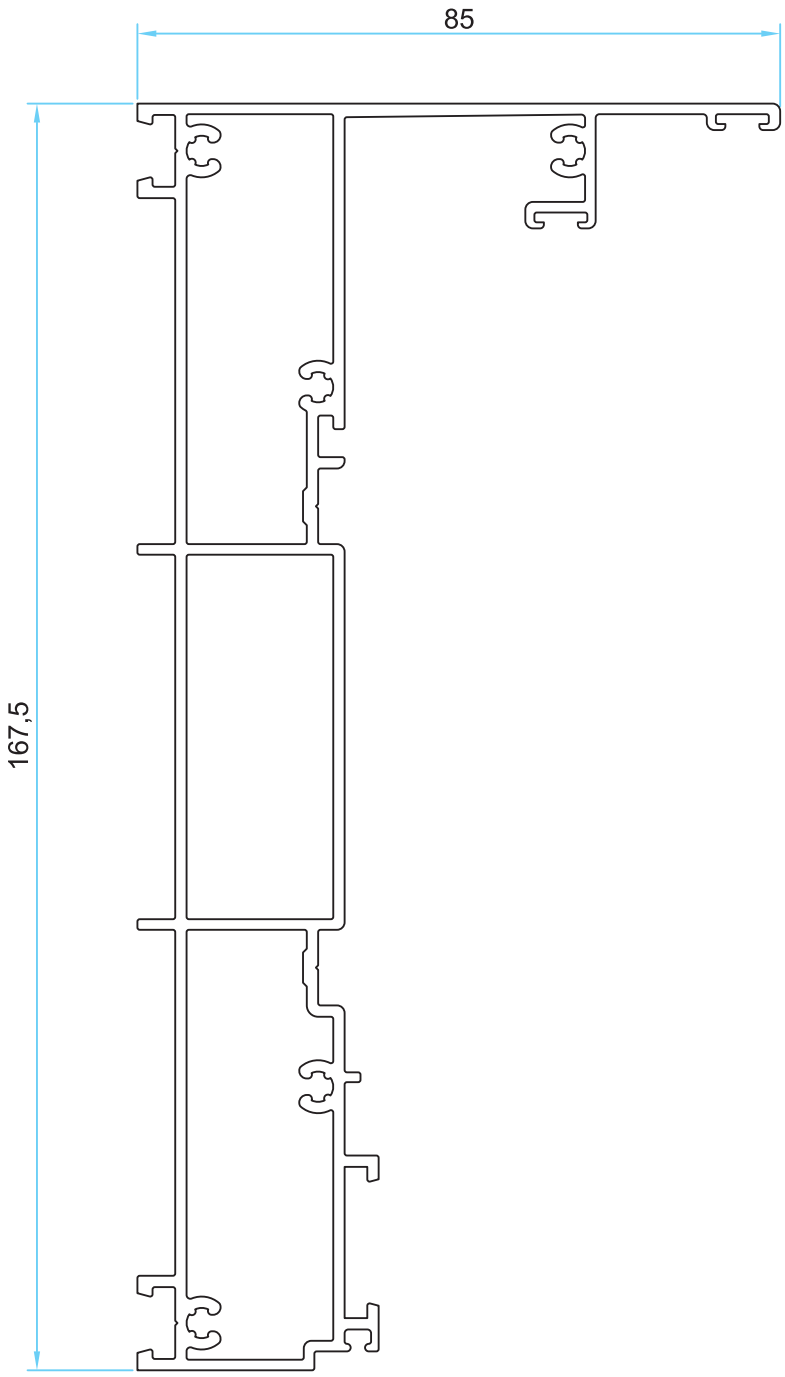


Code: **P-1193**
0,636 kg/m

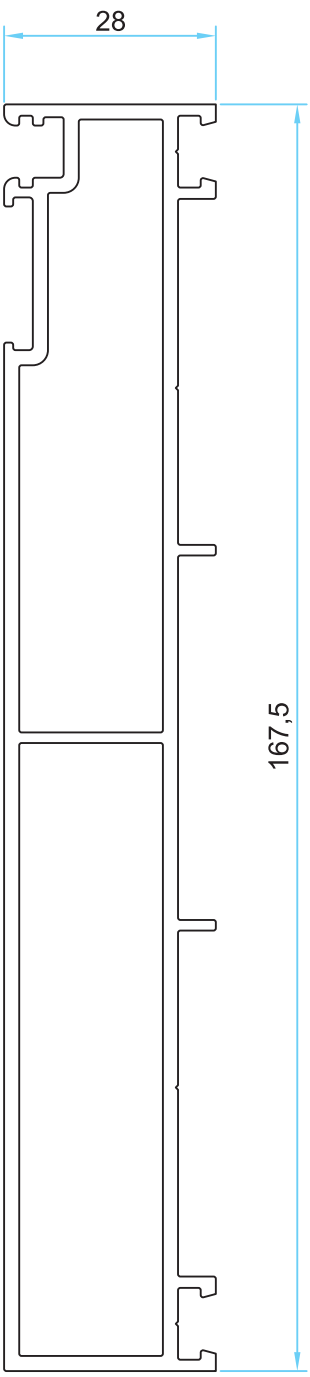


Code: **P-1553**
1,320 kg/m

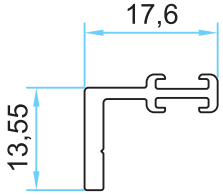
4 KANATLI SÜRME İÇİN İLAVE PROFİLLER / ADDITIONAL PROFILES FOR 4 SASH SLIDING



Code: **P-1203**
2,490 kg/m

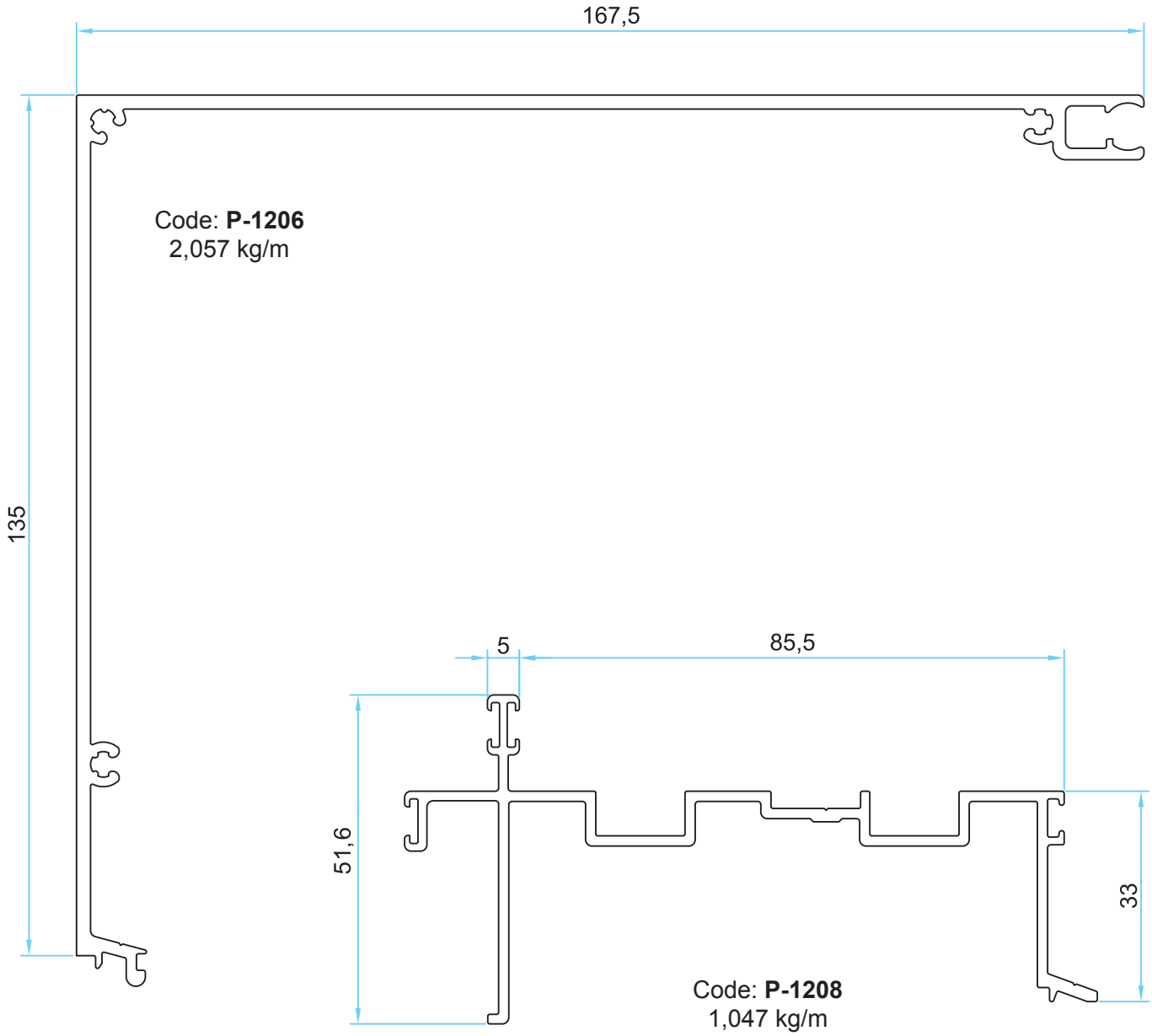


Code: **P-1205**
2,302 kg/m



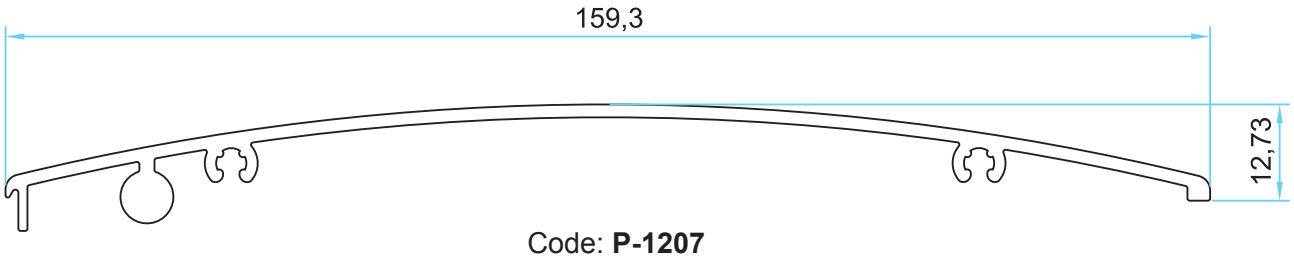
Code: **P-1204**
0,176 kg/m

4 KANATLI SÜRME İÇİN İLAVE PROFİLLER / ADDITIONAL PROFILES FOR 4 SASH SLIDING



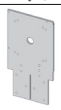
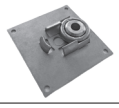
Code: **P-1206**
2,057 kg/m

Code: **P-1208**
1,047 kg/m



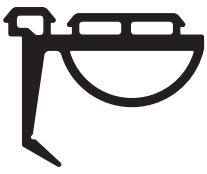
Code: **P-1207**
0,981 kg/m

Wiessal GL100 Sistem Aksesuar Paket Listesi
Wiessal GL100 Guillotine System Accessory Package List

Kod Code	Resim Picture	Açıklama Description	Kutu içi Miktar (3 kanat) Quantity in Box (3 Sash)	Kutu içi Miktar (4 kanat) Quantity in Box (4 Sash)	Birim Unit
AK-5451		Kasa ve Kanat için Takoz Menteşe Takımı Wedge Hinge Kit for the Sash&Frame	6	8	Set
AK-5452		Hareketli Üst Kapak için Yan Kapak Takım Side Coverage Plug Kit For Active Top Cap Profile	1	1	Set
AK-5453		06B-1 Karbon Çelik Zincir (5m) 06B-1 Carbon Steel Chain (5m)	2	2	Adet Piece
AK-5454		Zincir Dişlisi Chain Gear	2	2	Adet Piece
AK-5455		Motor Kutusu için Lazer Kesim Yan Kapaklar Lazer Cutting Side Covers For The Motor Box	2	2	Adet Piece
AK-5456		Motor Tarafı için Rulmanlı Bağlantı Ankrajı Anchorage with Roller For The Motor Side	1	1	Adet Piece
AK-5457		Sabit Taraf için Bağlantı Ankrajı Anchorage For The Fixed Side	1	1	Adet Piece
AK-5458		Ayarlı Kilitleme Karşılığı Adjustable Locking Striker	2	2	Adet Piece
AK-5459		Tij Ucu Kilitleme Parçası Locking Piece For The Rod End	2	2	Adet Piece
AK-5460		Gizli Tutamaklı Kol (7mm Kare Maçalı) Hidden Handle (7mm Square Pin)	1	1	Adet Piece
AK-5461		Silindirli Gömme Kilit Embedded Lock with Roller	2	4	Adet Piece
AK-5462		Kol Hareket İletimi için İç Mekanizma Inner Mechanism For The Handle Movement	1	1	Adet Piece
AK-5463		Kanat için Gömme Çekme Kol Recessed Pull Handle For Sash	1	1	Adet Piece
AK-5464		Vasistas Makas (15cm) Stay Arm For Top Hung (15cm)	2	2	Adet Piece
AK-5465		Zincir Hizalama Parçası Chain Guider	2	2	Adet Piece
AK-5466		Rulmanlı Tambur Başı Octagon Pipe Head with Ball Bearing	1	1	Adet Piece



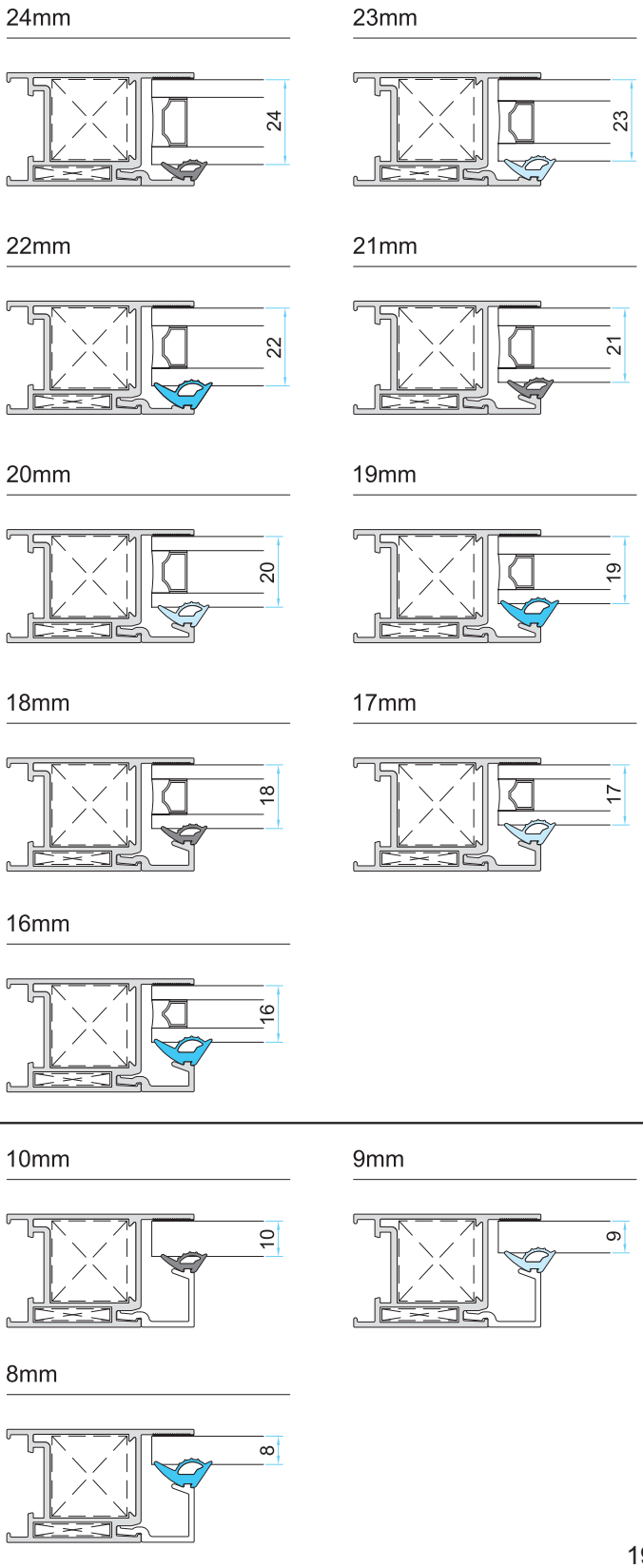
Code: **AK-5470**
Aksesuar Set Kutusu
Accessory Box Set

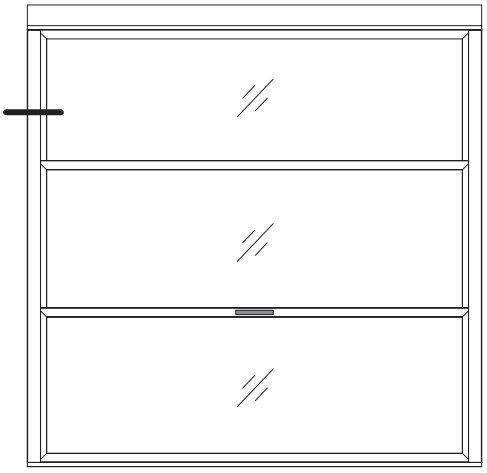
Resim / Kod Picture / Code	Kutu İçi Miktar Quantity Per Box	Kutu Ağırlığı Box Weight
 GYT-036	500 m	7 kg
 GYT-037	200 m	9 kg
 GYT-038	200 m	11,6 kg
 GYT-039	200 m	13,8 kg
 GYT-040	200 m	13 kg
 GYT-041	40 m	12,8 kg
 GYT-042	40 m	12,2 kg
 AK-5467 Fırça Fitil / Brush Sail	1200 m	
 AK-5468 Kenet Isı Yalıtım Plastiği Insulation Plastic for Clamp	30 m	

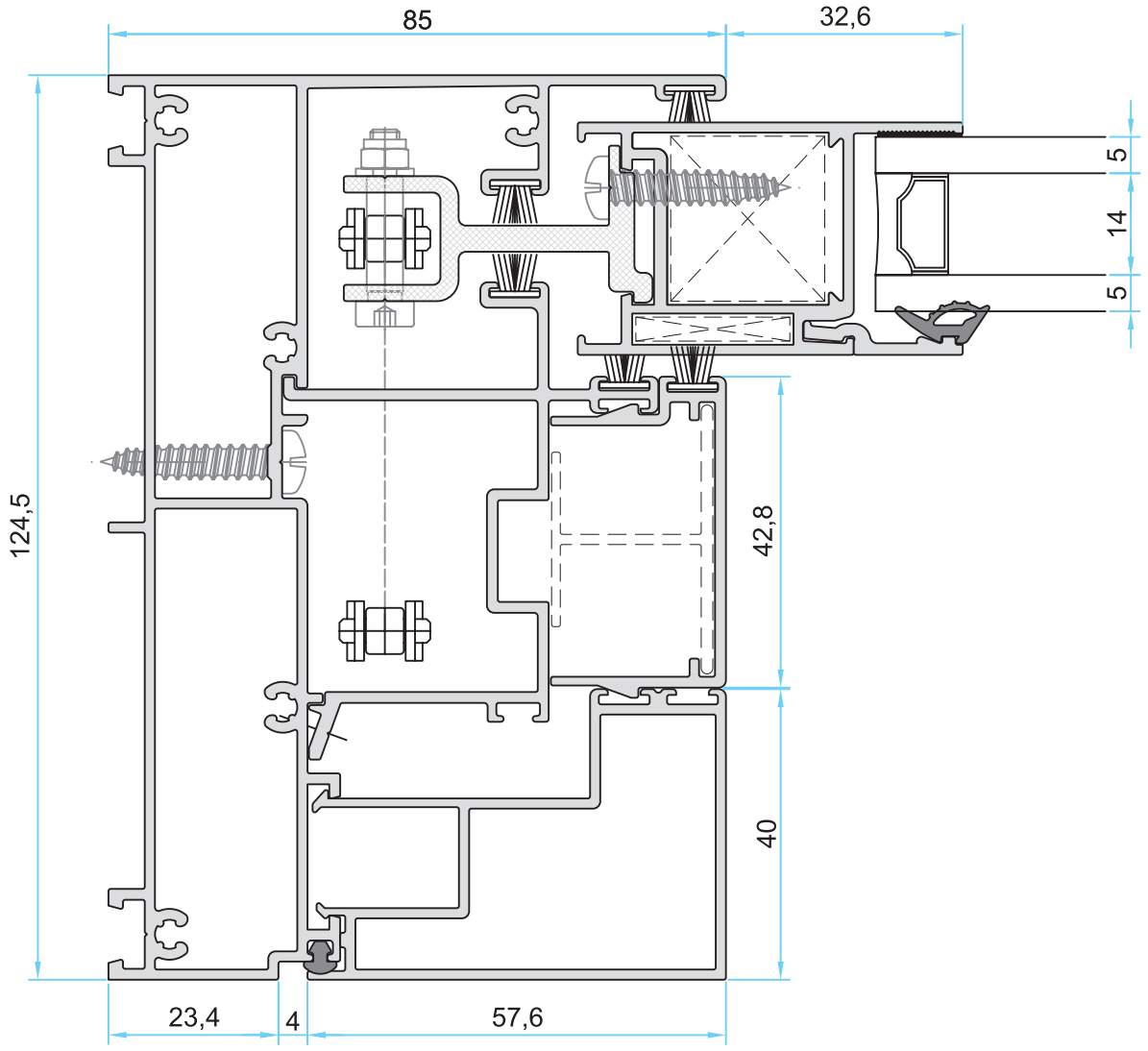
CAM KALINLIKLARINA GÖRE CONTA KULLANIM TABLOSU (YALITIMLI/YALITIMSIZ)

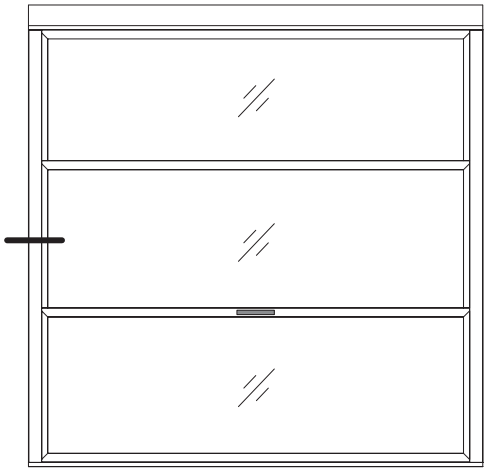
GASKET USAGE TABLE ACCORDING TO GLASS THICKNESS (THERMAL/NON-THERMAL)

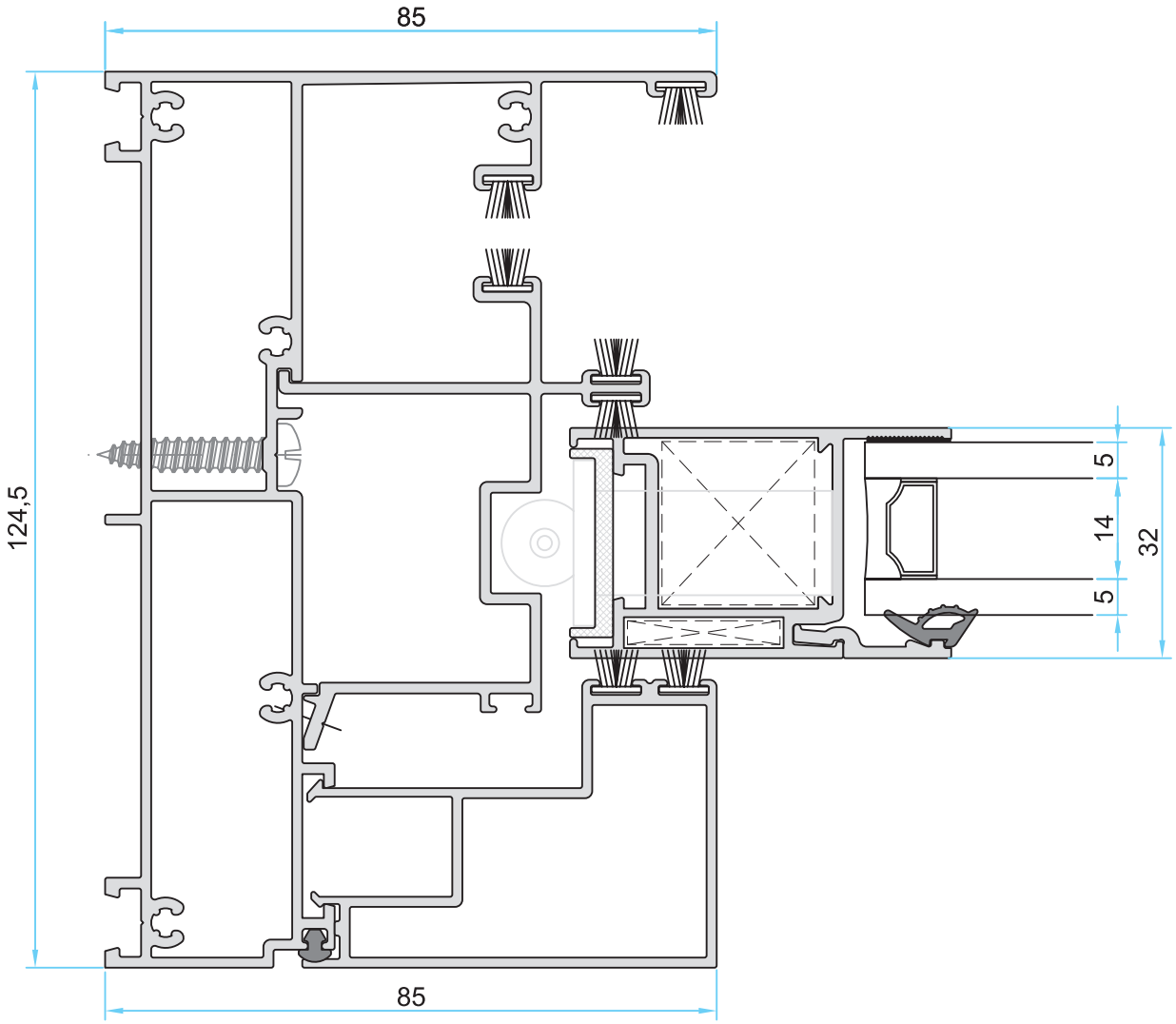


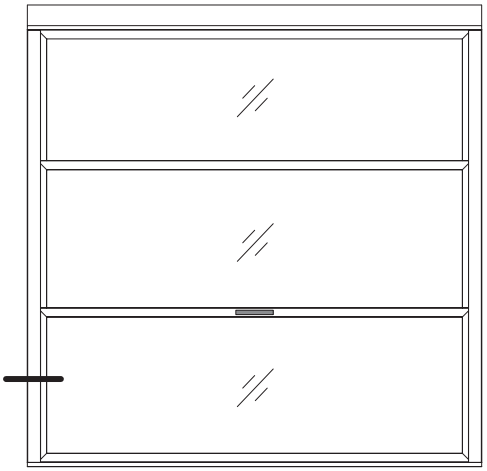


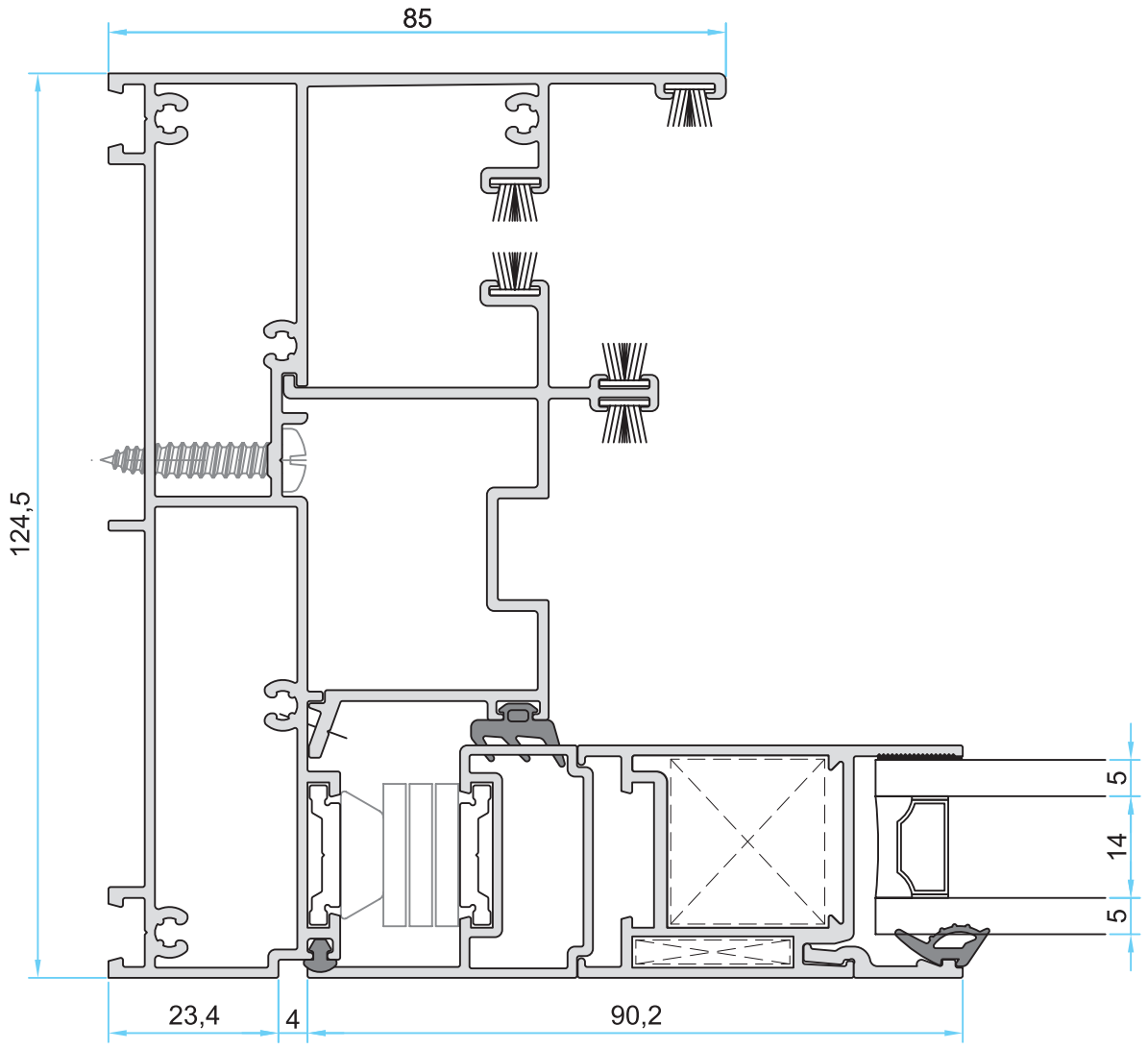


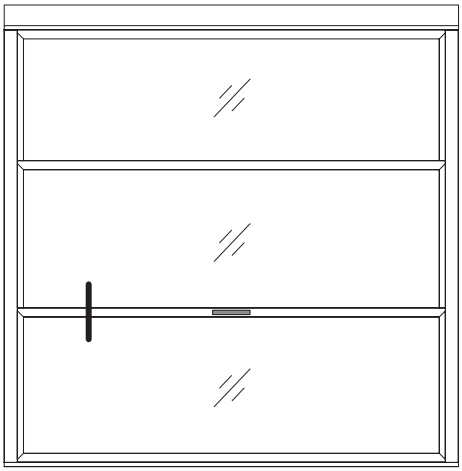

85
32,6
5
14
5
124,5
42,8
40
23,4
4
57,6

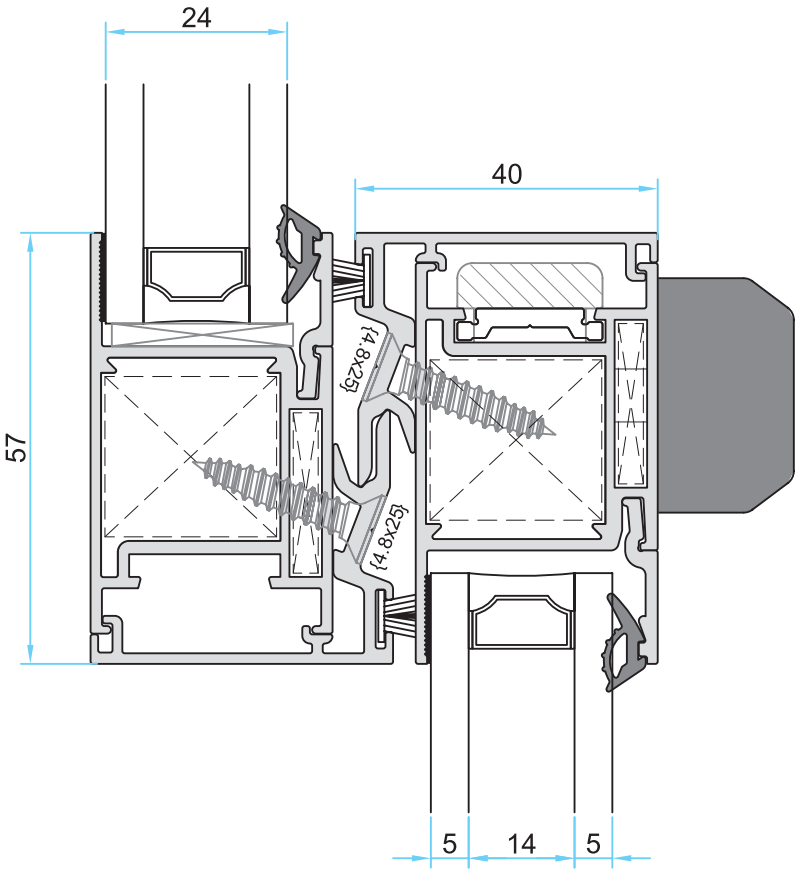


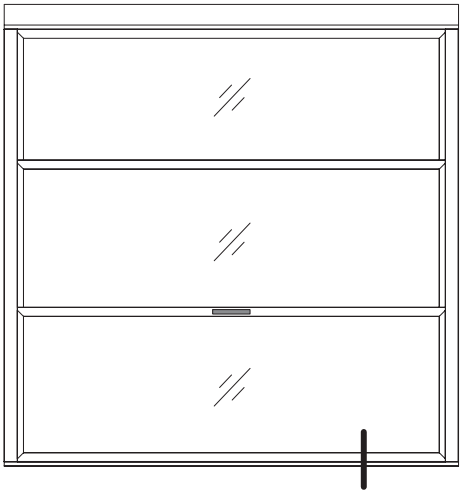

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14
32
5
85

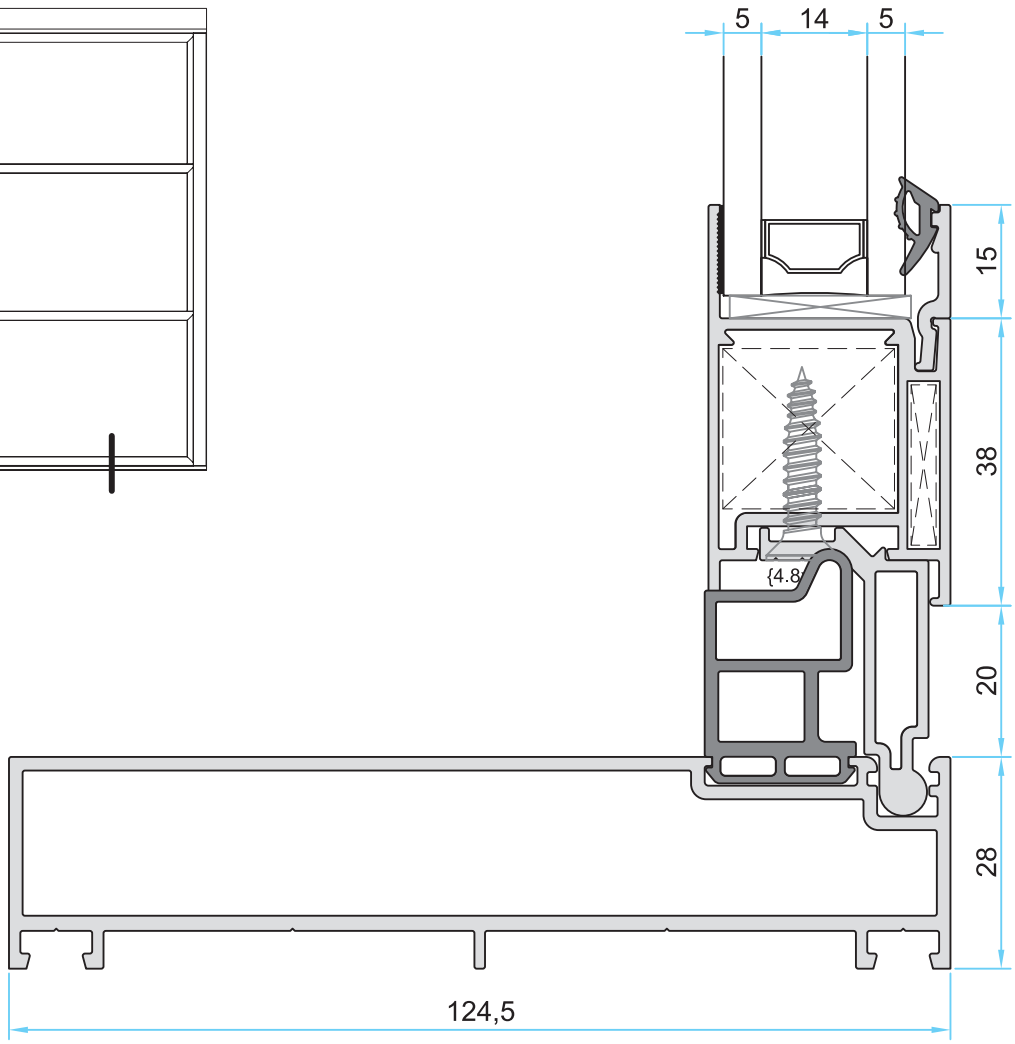


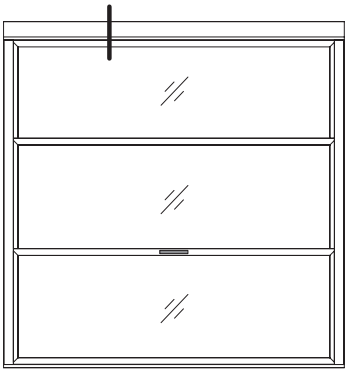

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5
14
5
23,4
4
90,2

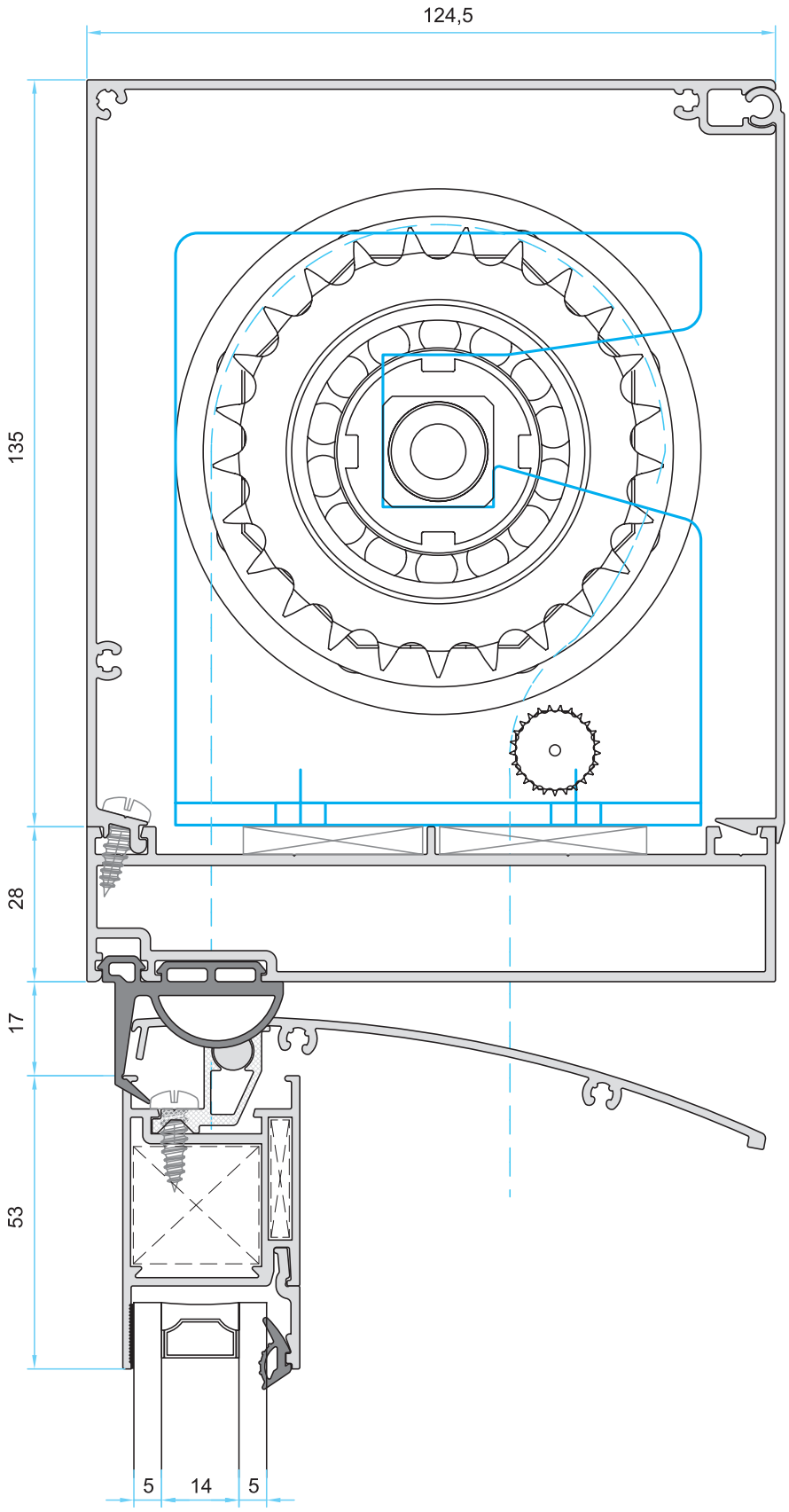


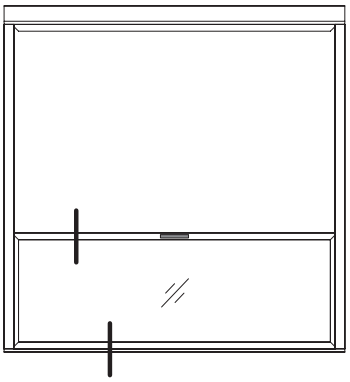

24
40
57
{4.8x25}
{4.8x25}
5
14
5

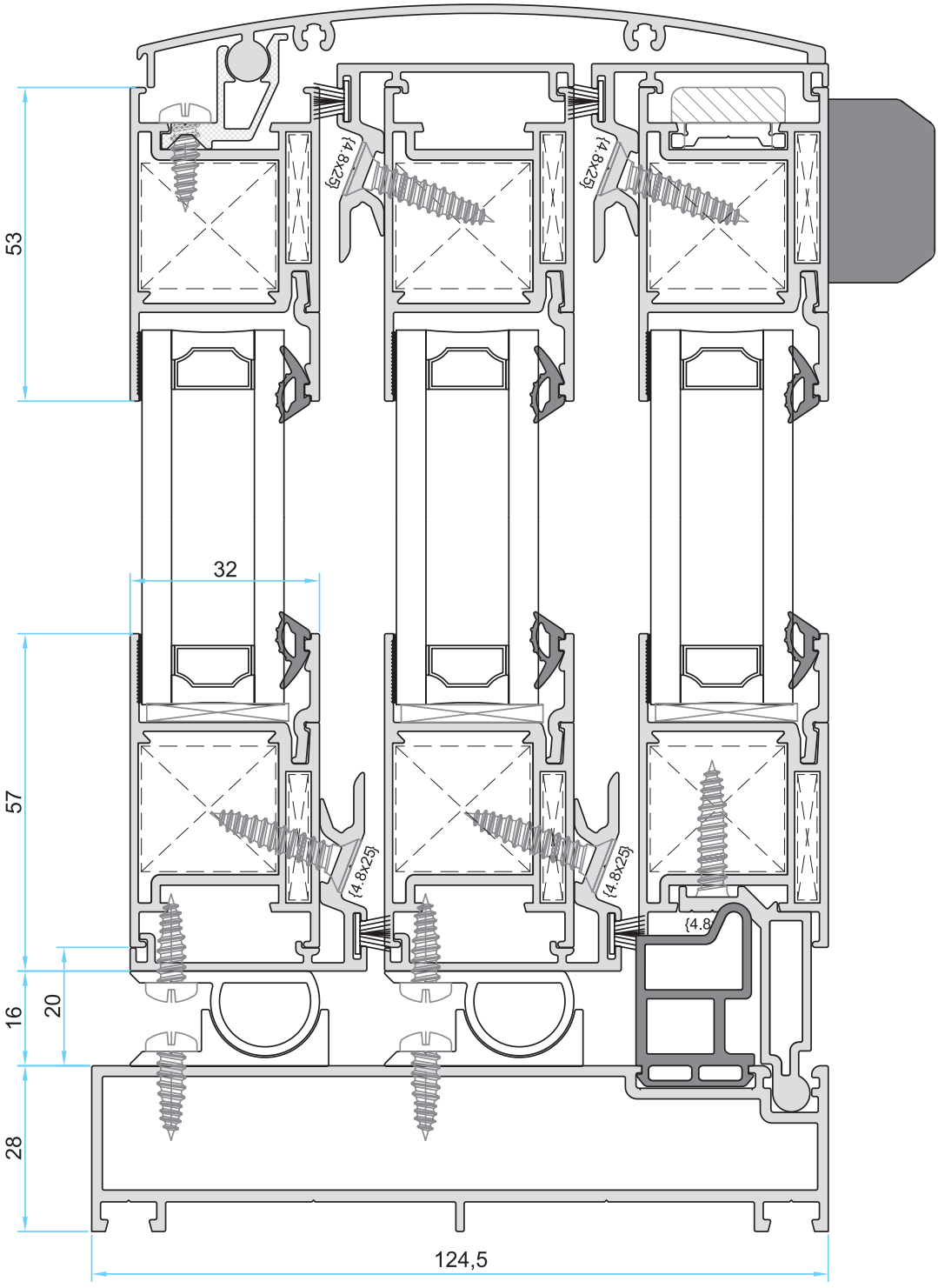


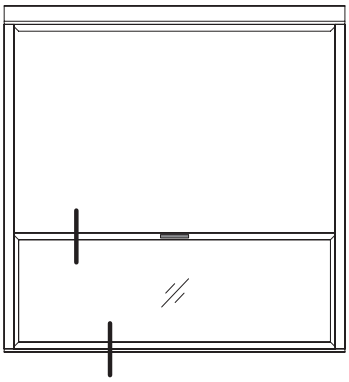

5
14
5
15
38
{4.8
20
28
124,5

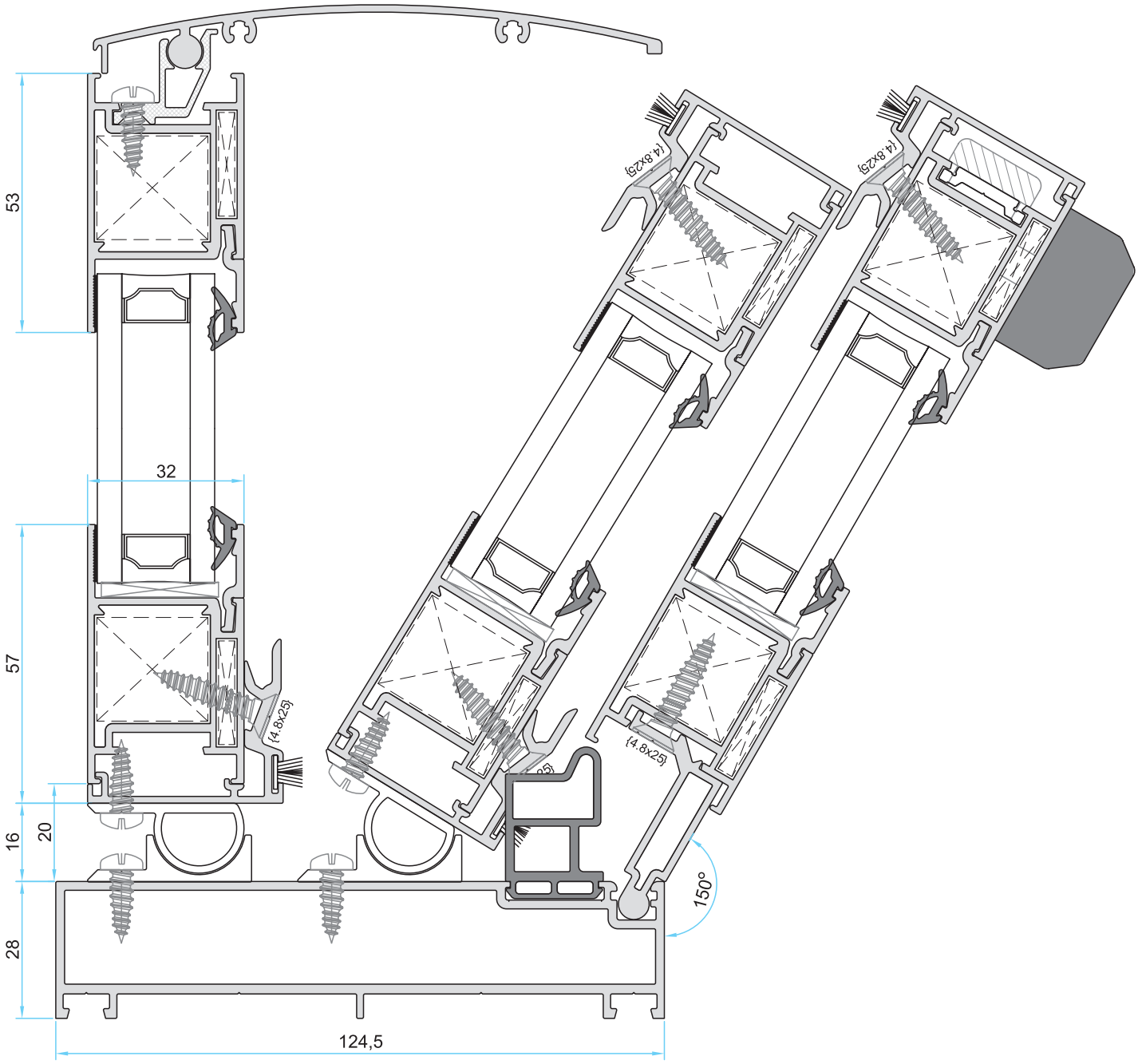


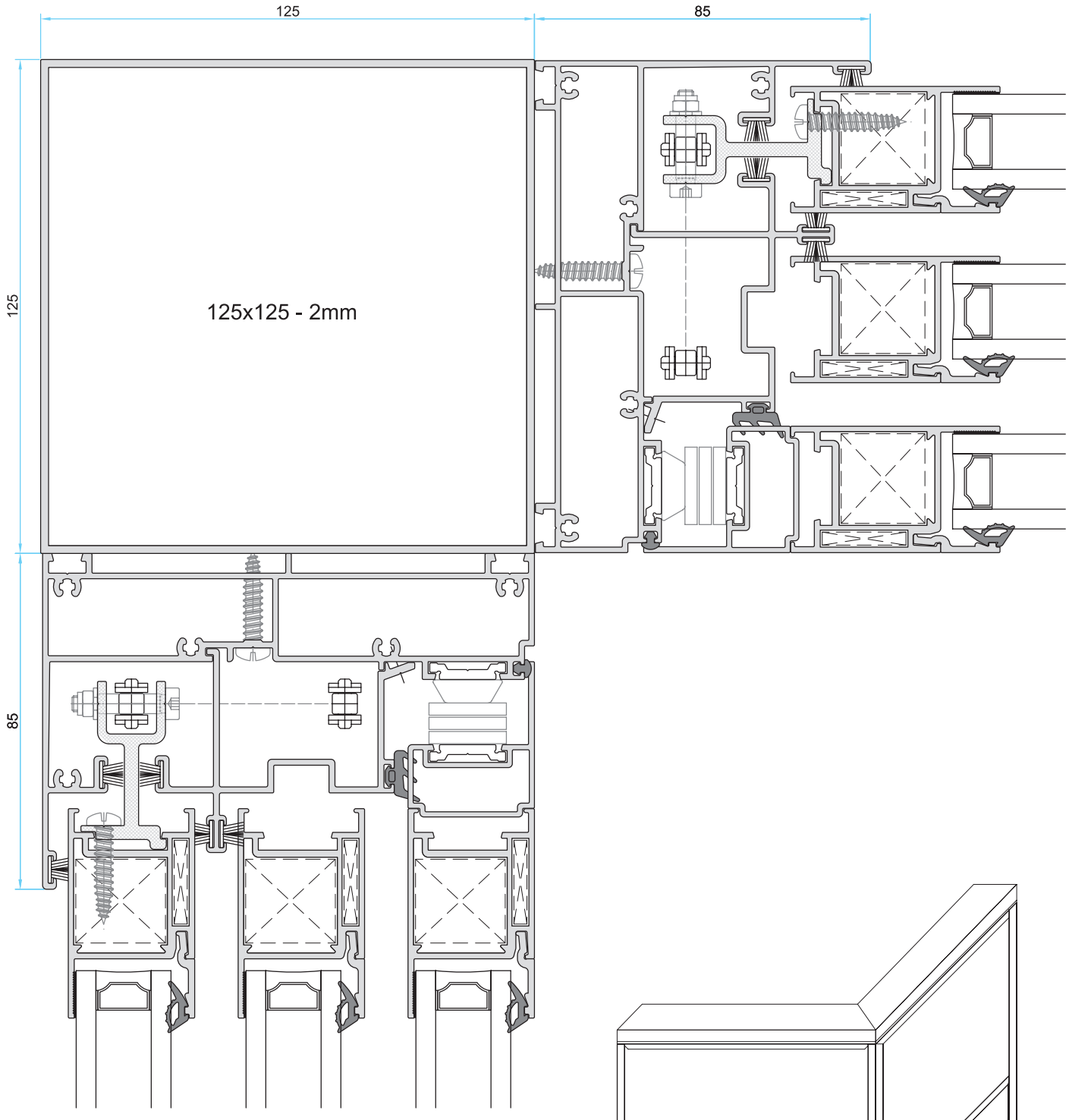

124,5
135
28
17
53
5
14
5



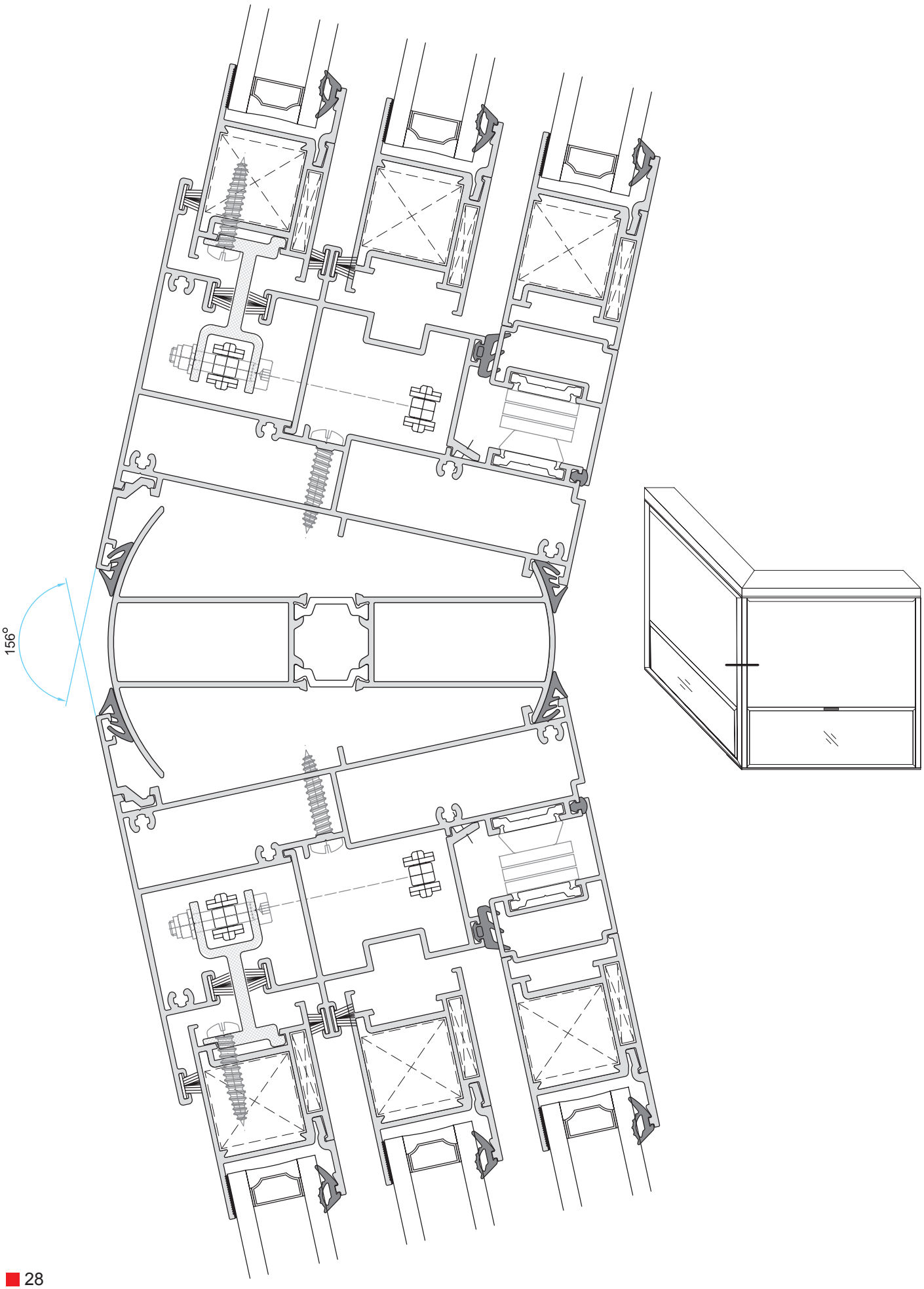

53
32
57
16
20
28
124,5
{4.8x25}
{4.8x25}
{4.8x25}
{4.8x25}
{4.8

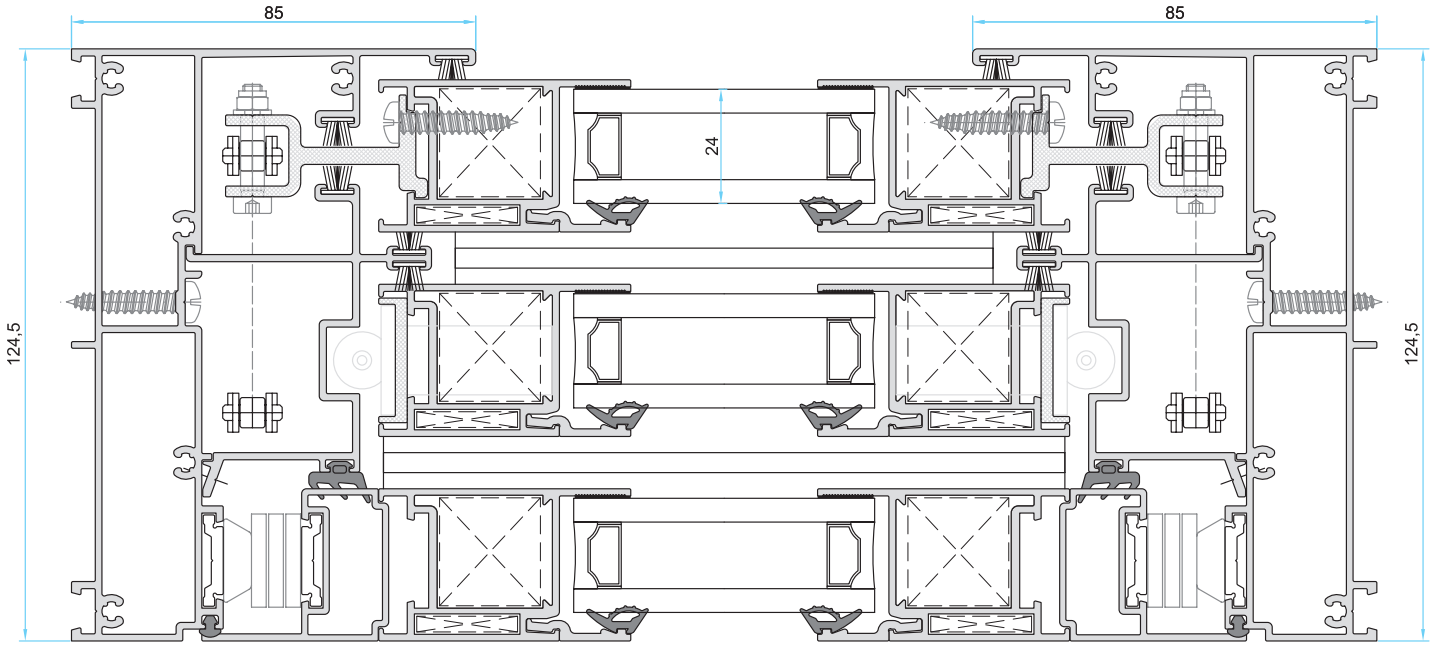


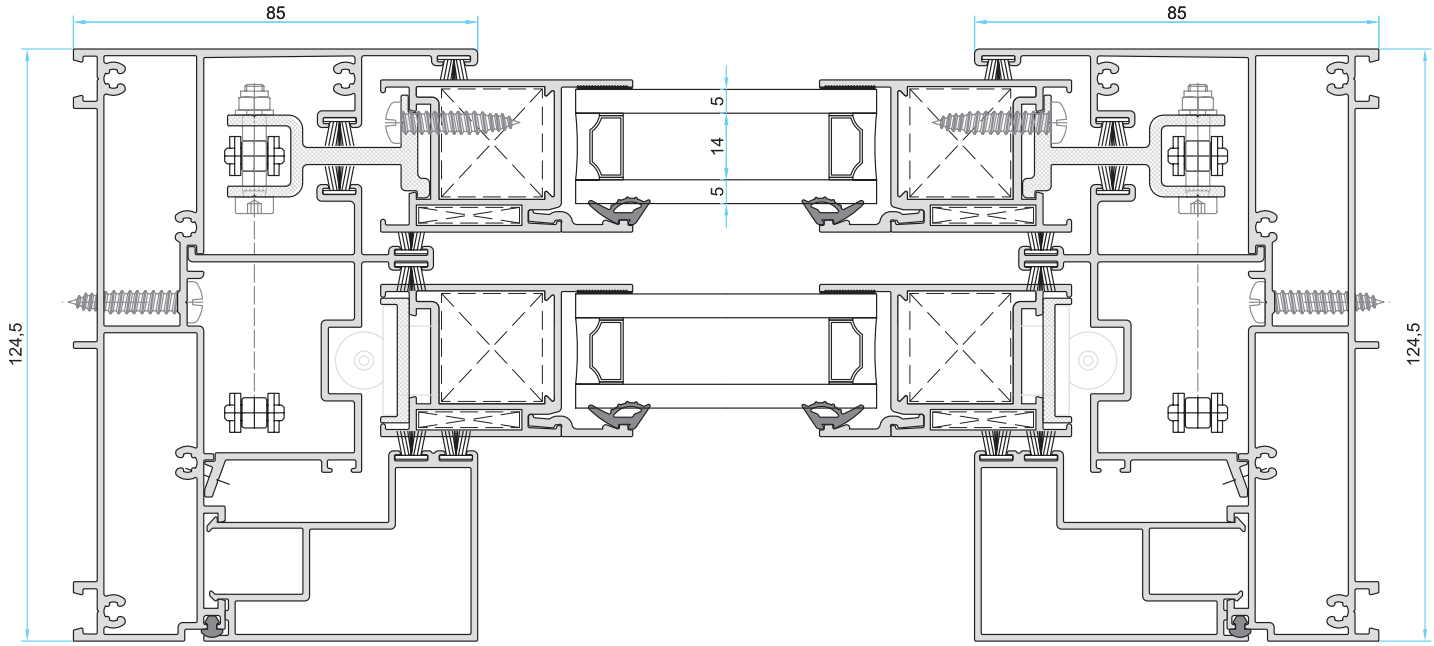

53
32
57
16
20
28
124,5
(4.8x25)
(4.8x25)
(4.8x25)
150°

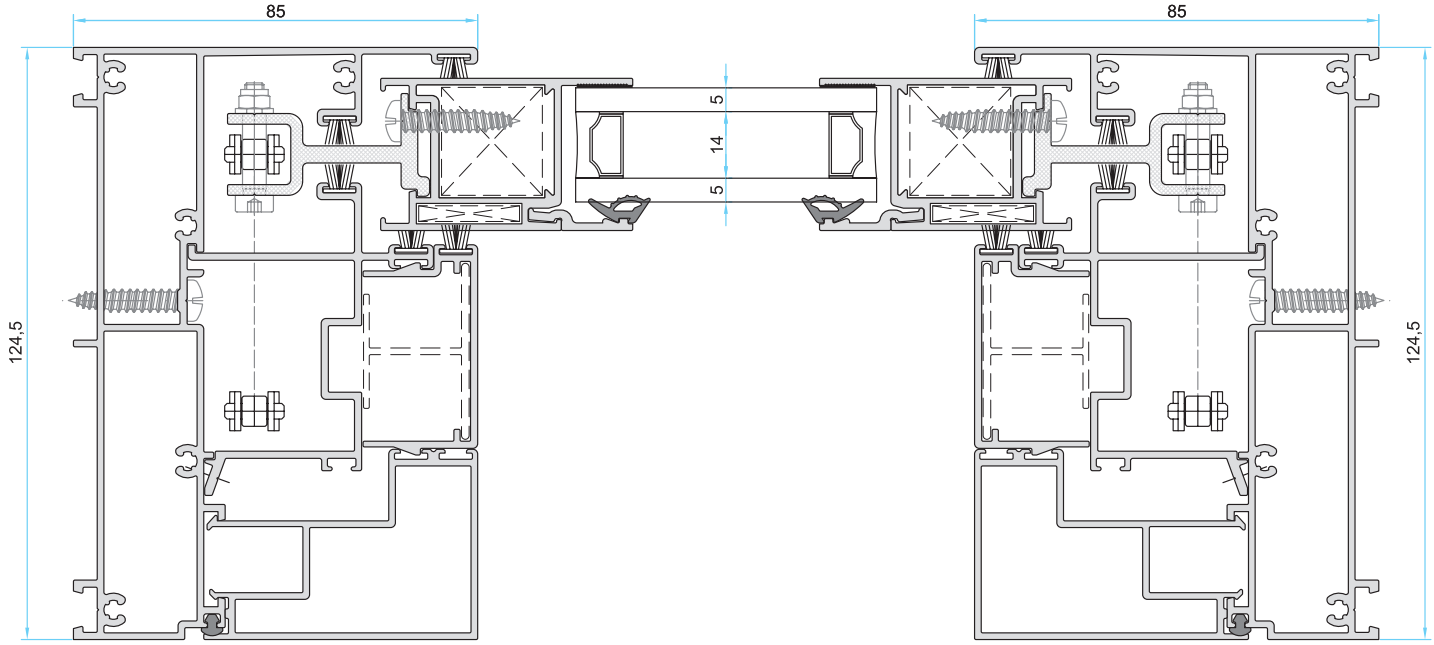

125
85
125
125x125 - 2mm
85

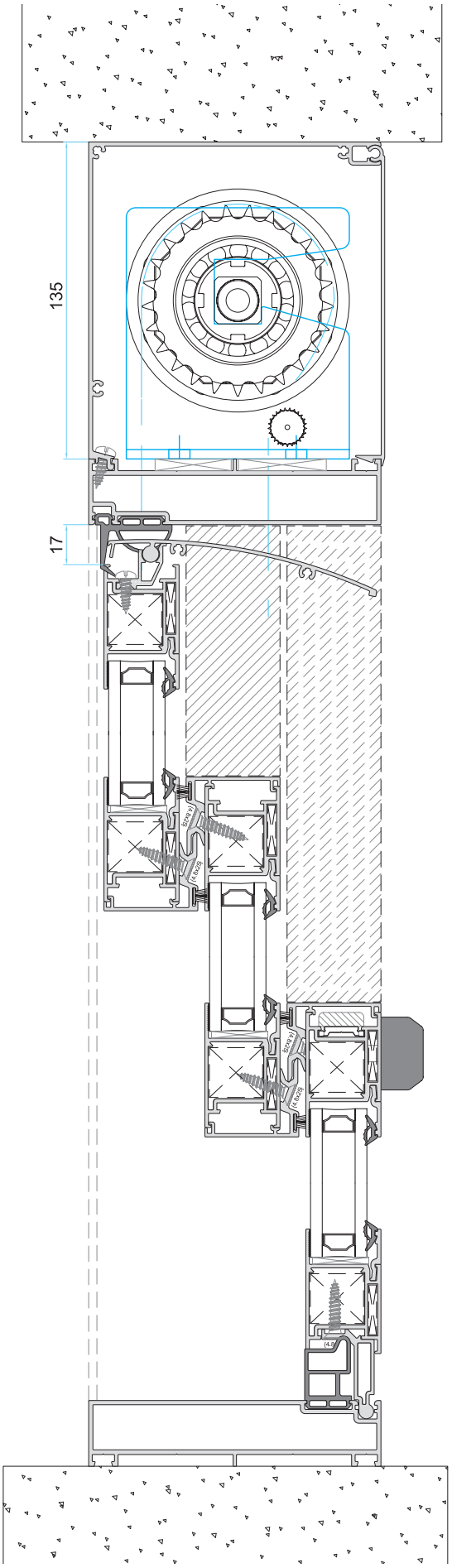
90°

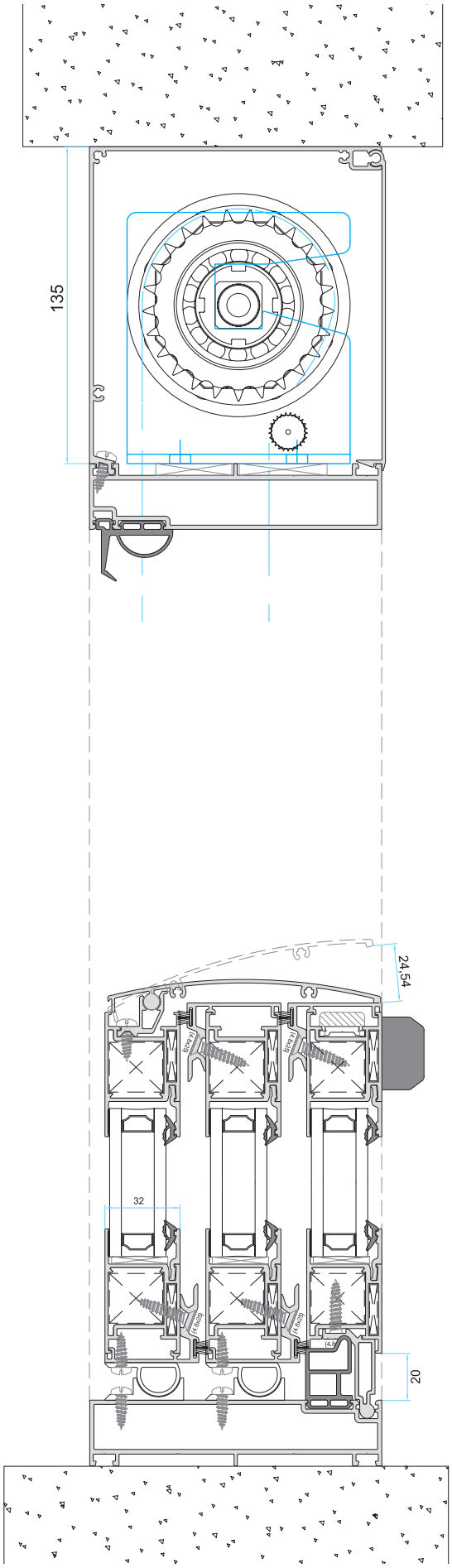

156°

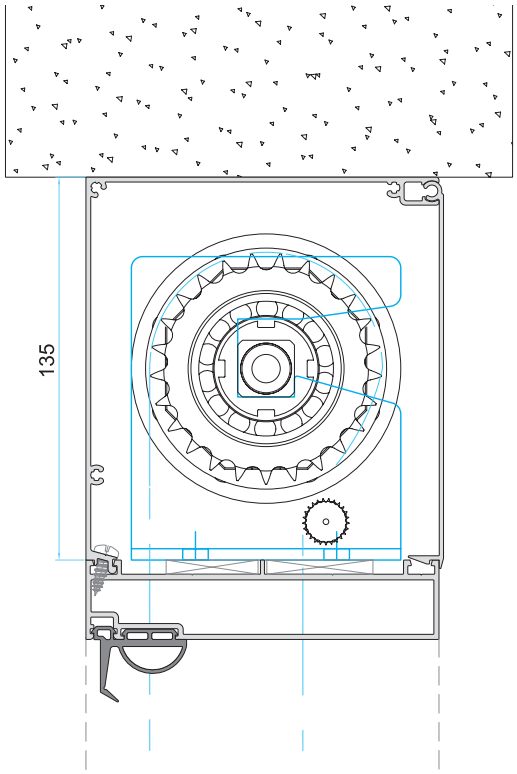

85
85
24
124,5
124,5

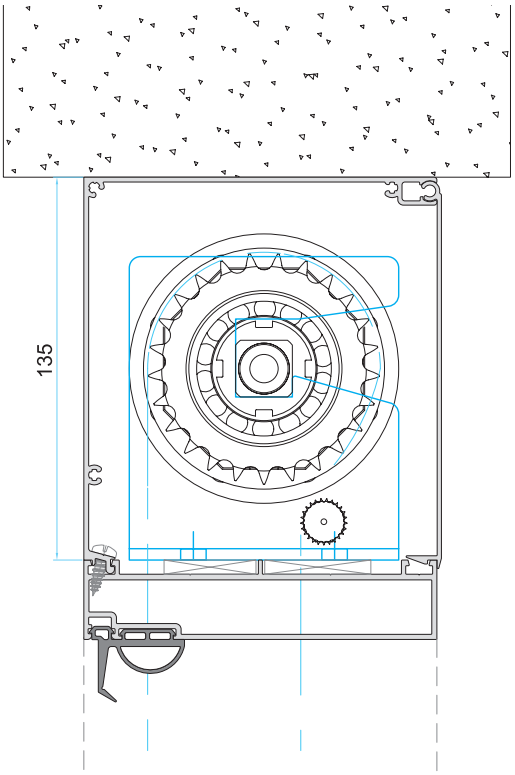

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14
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124,5
124,5

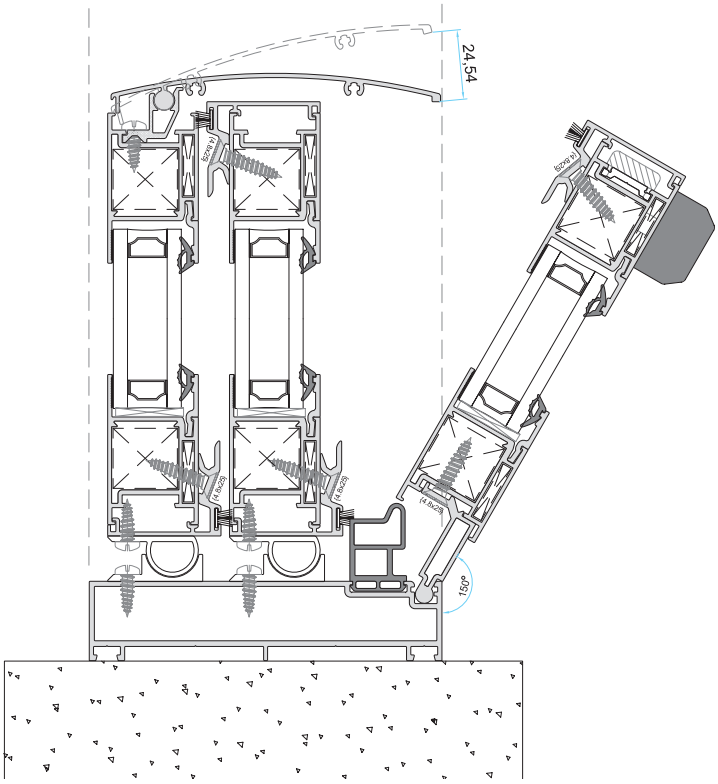

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14
5
124,5
124,5

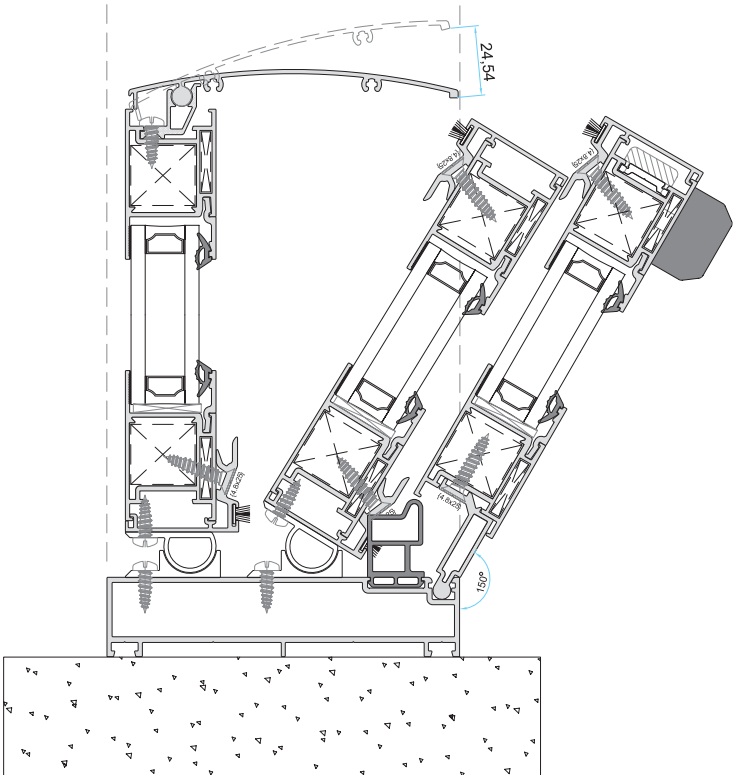

135
17

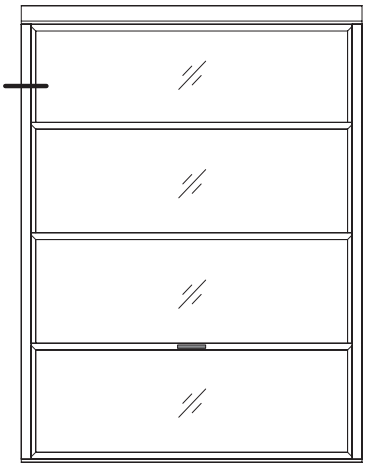

135
24,54
32
20

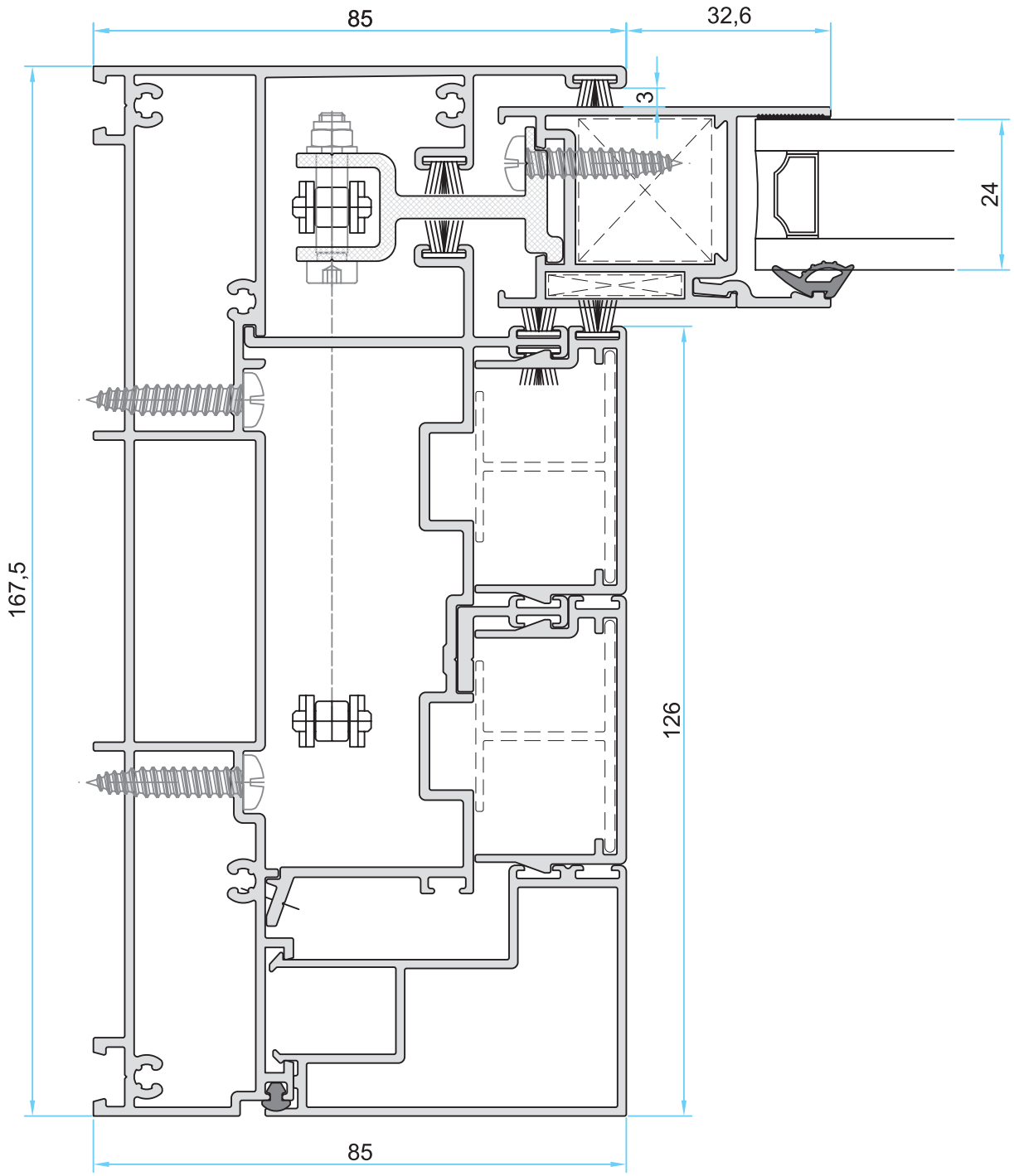

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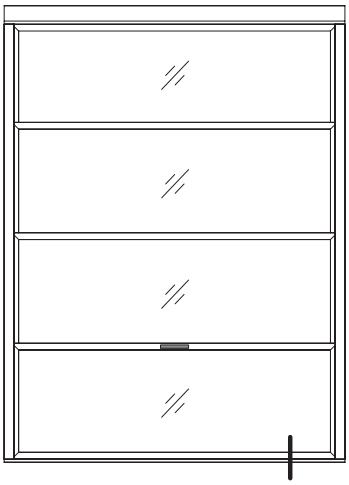

135

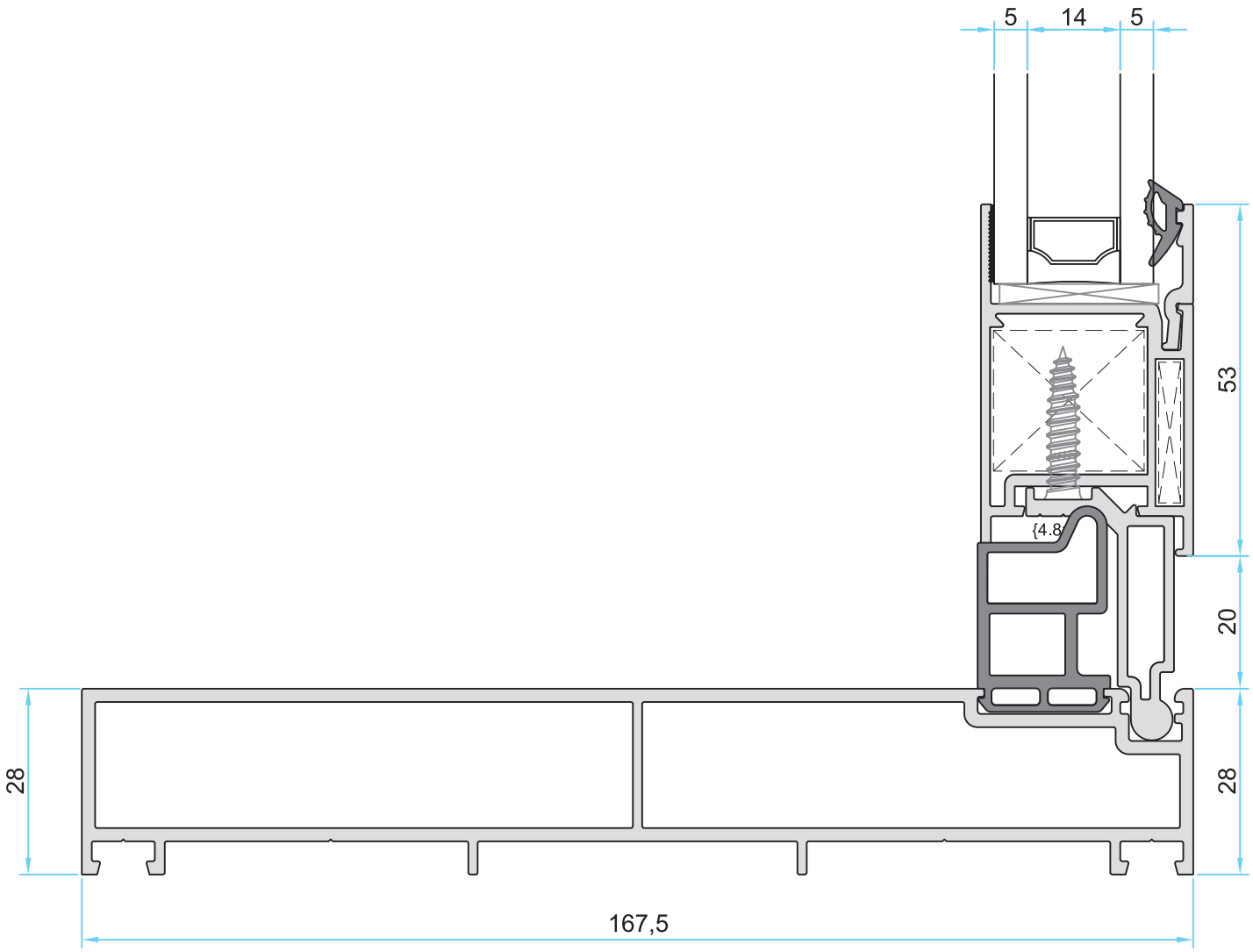

24.54
150°

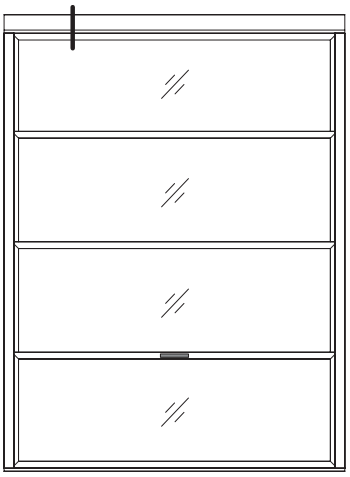

24.54
150°

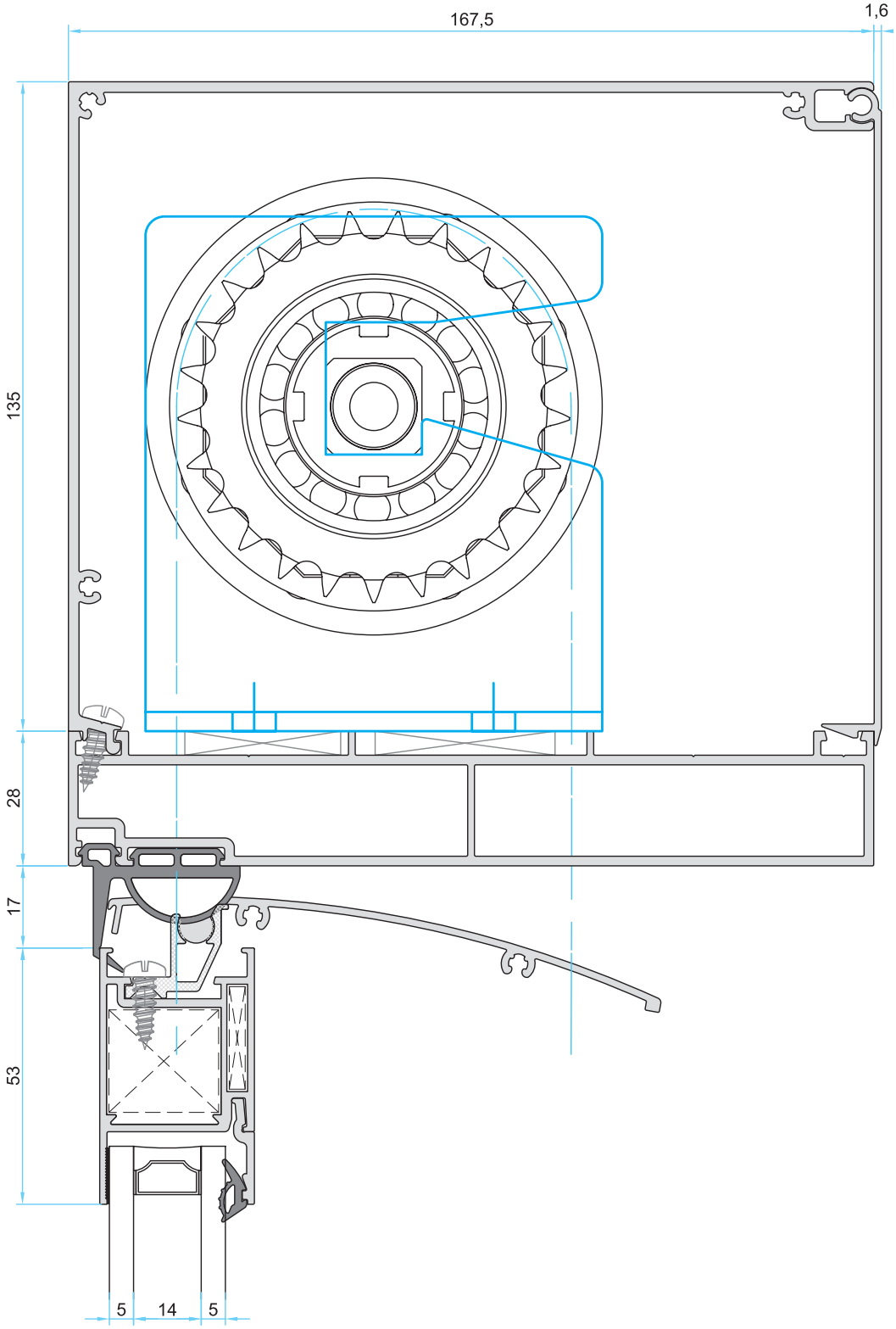


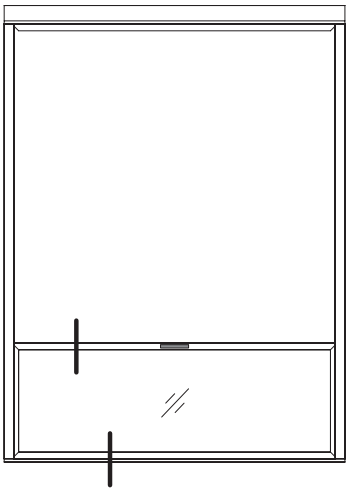

85
32,6
3
24
167,5
126
85

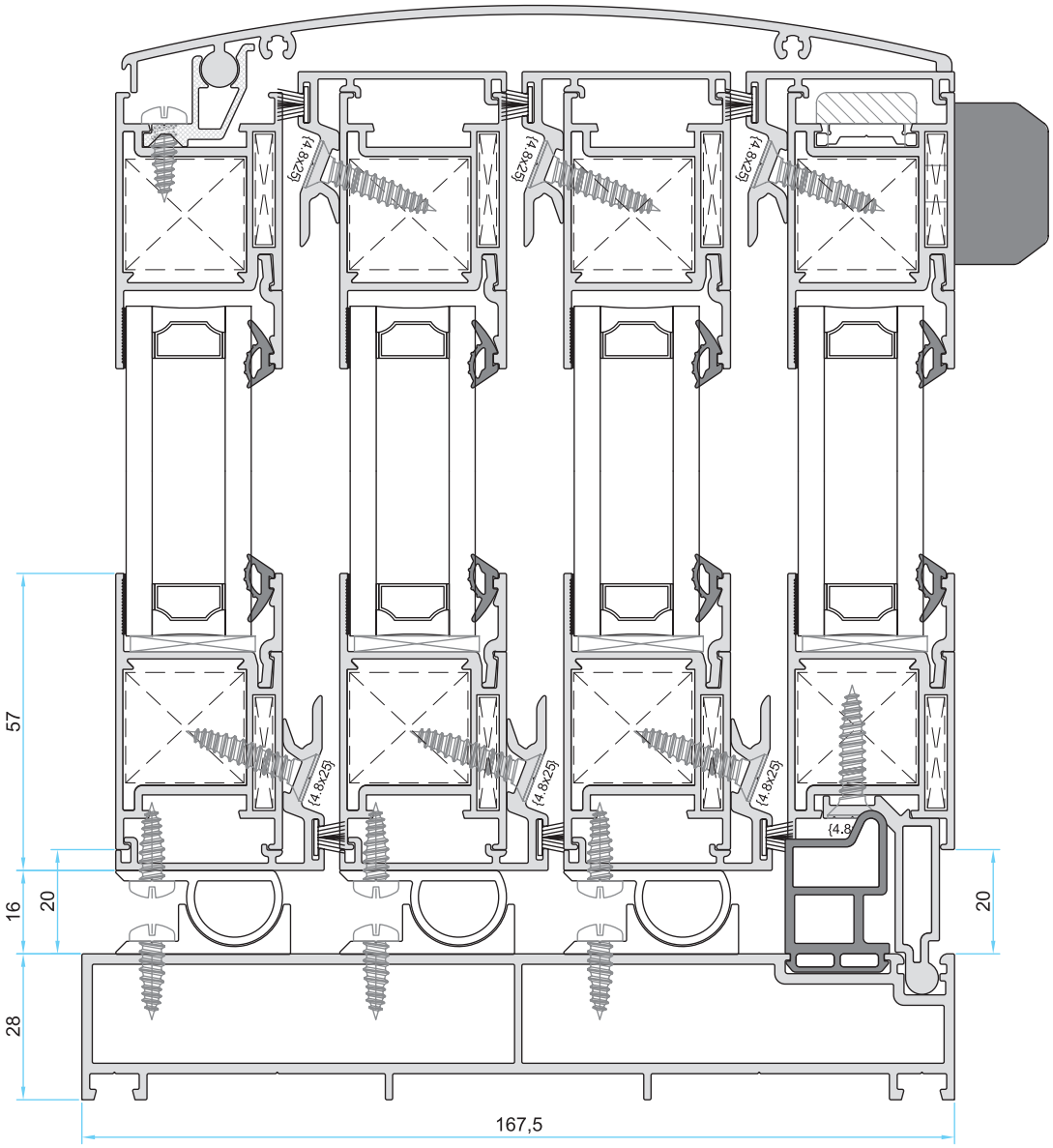


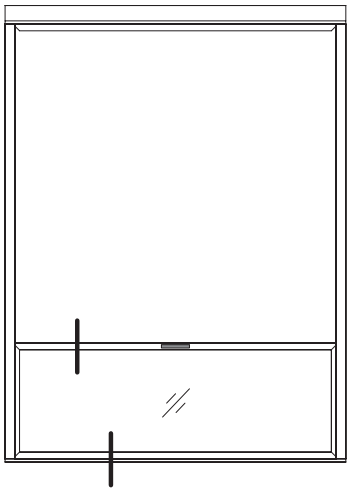

5
14
5
53
{4.8
20
28
28
167,5

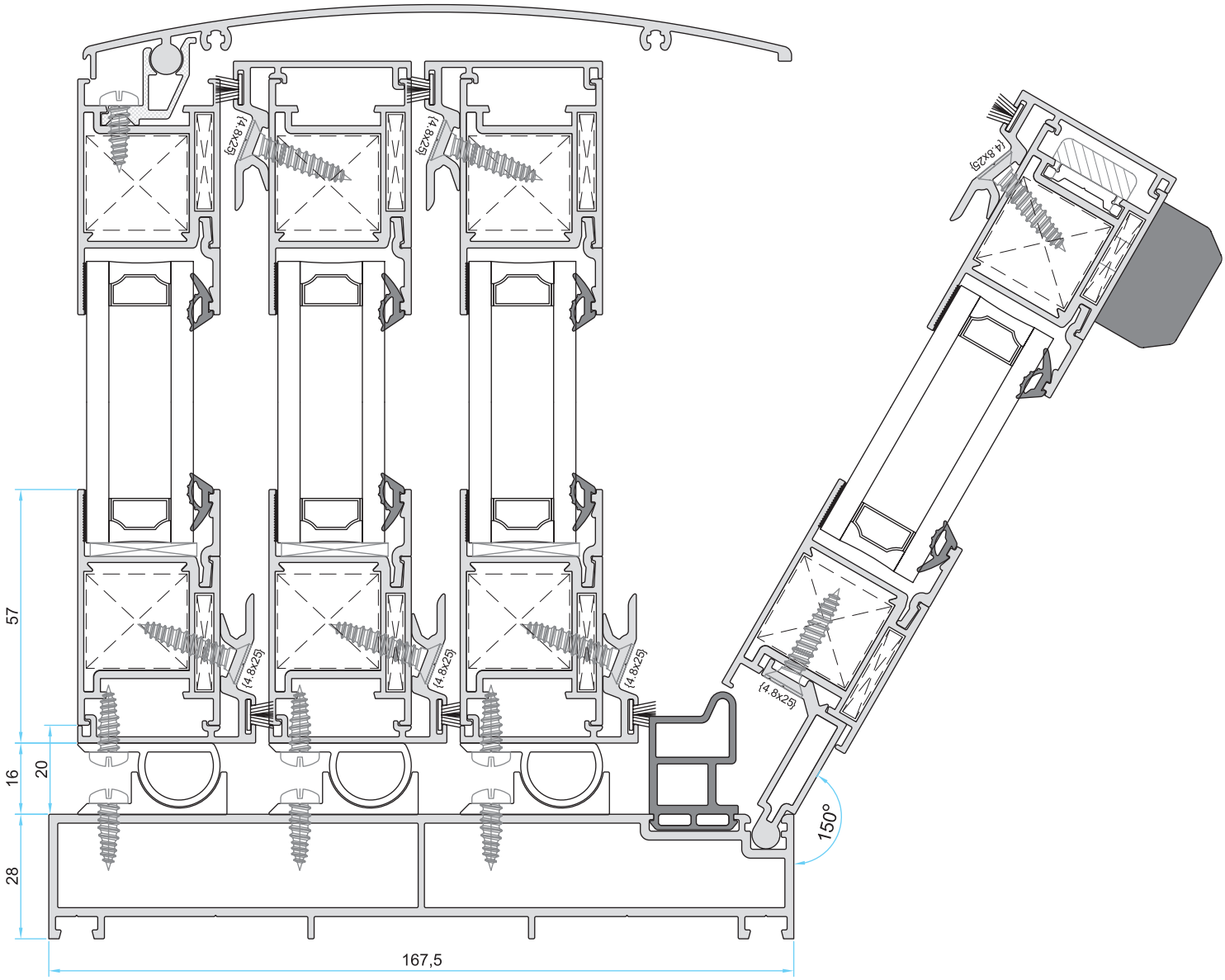


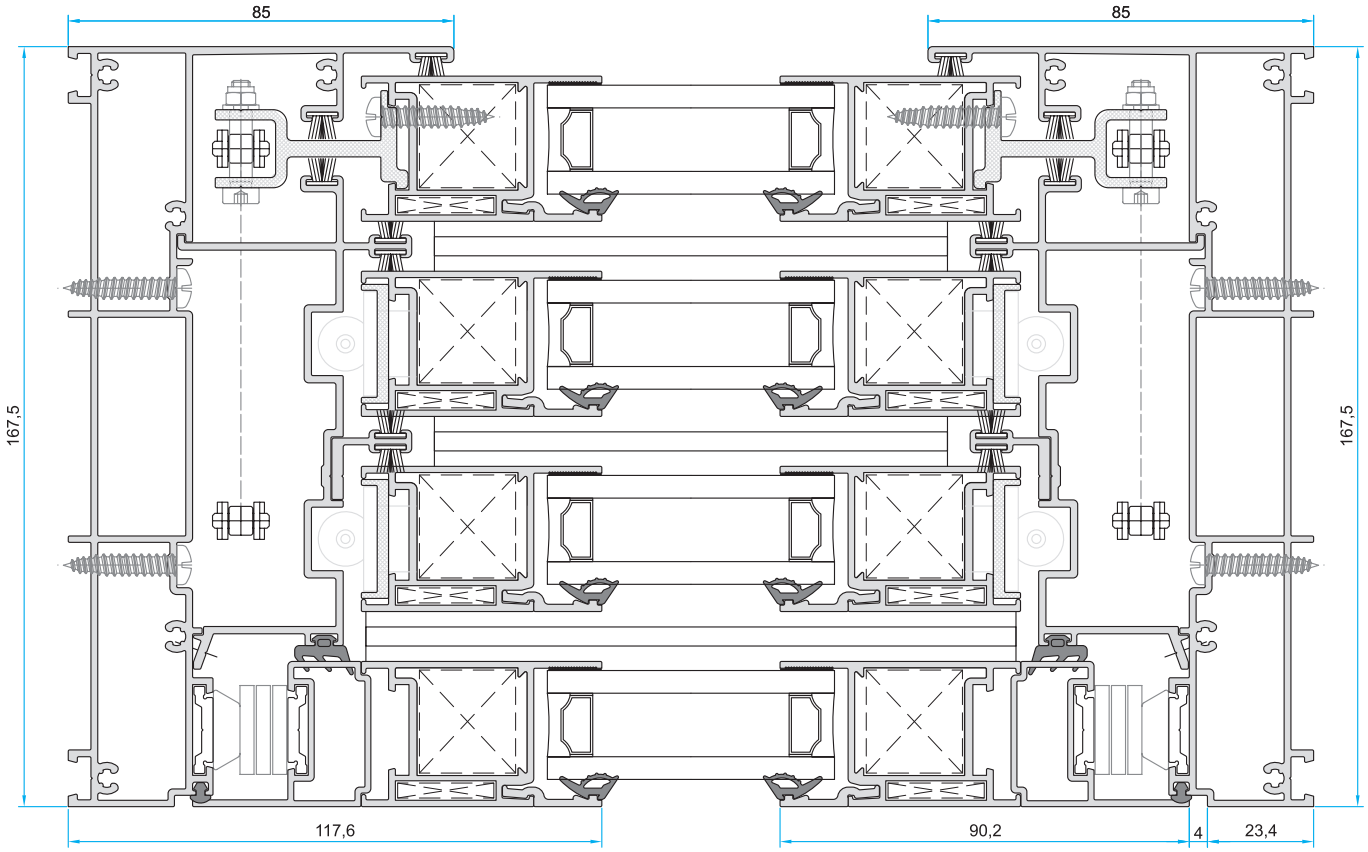

167,5
1,6
135
28
17
53
5
14
5

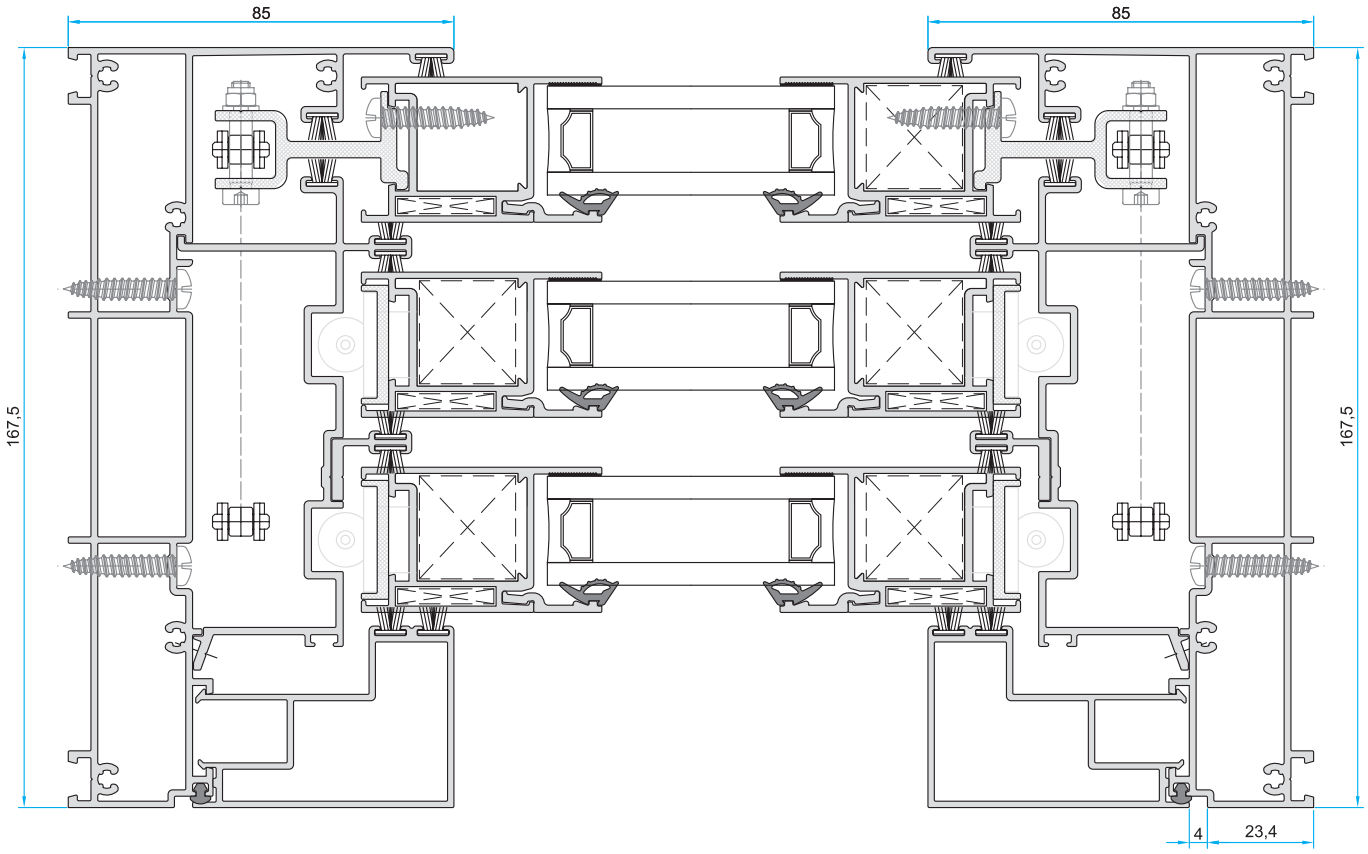



57
16
20
28
20
167,5

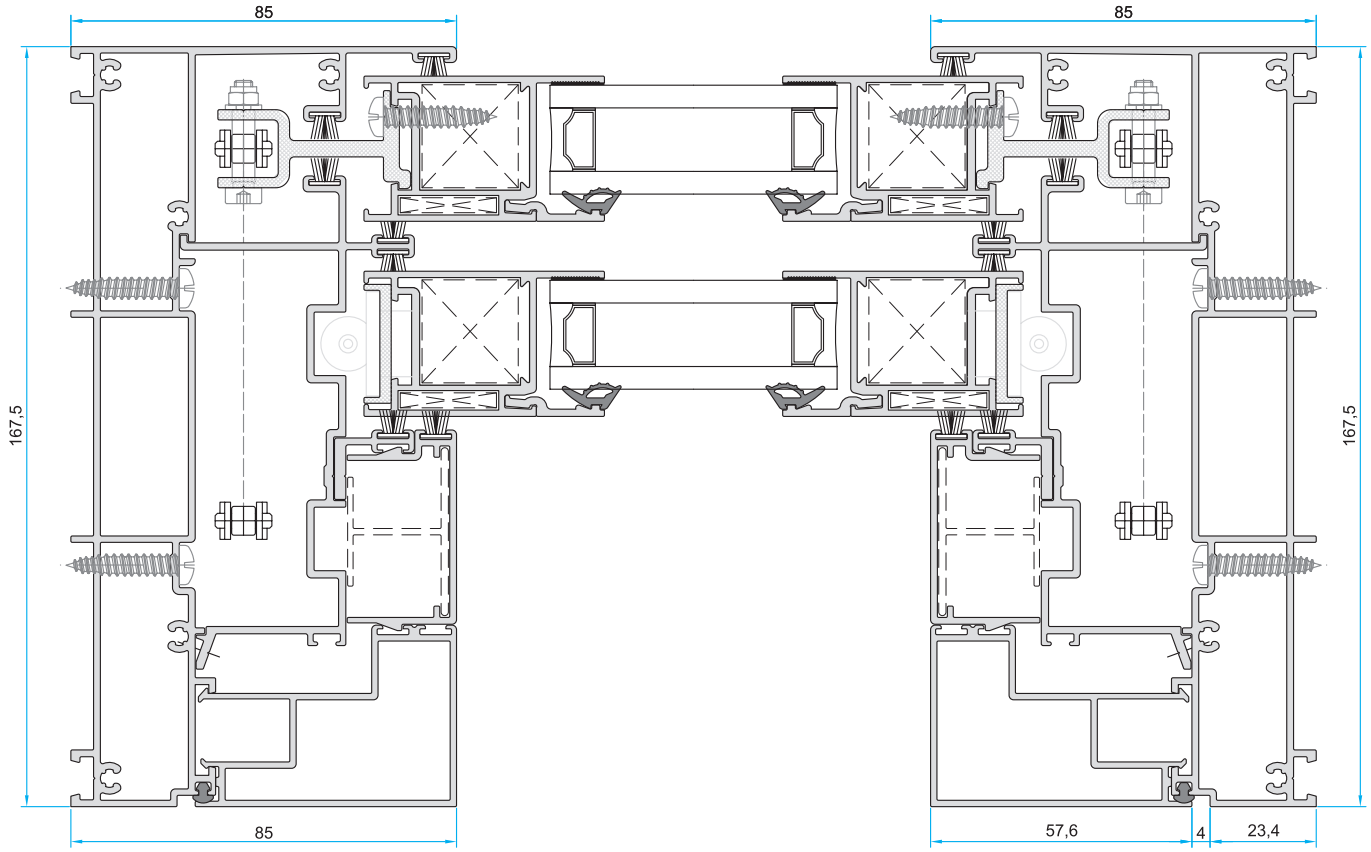


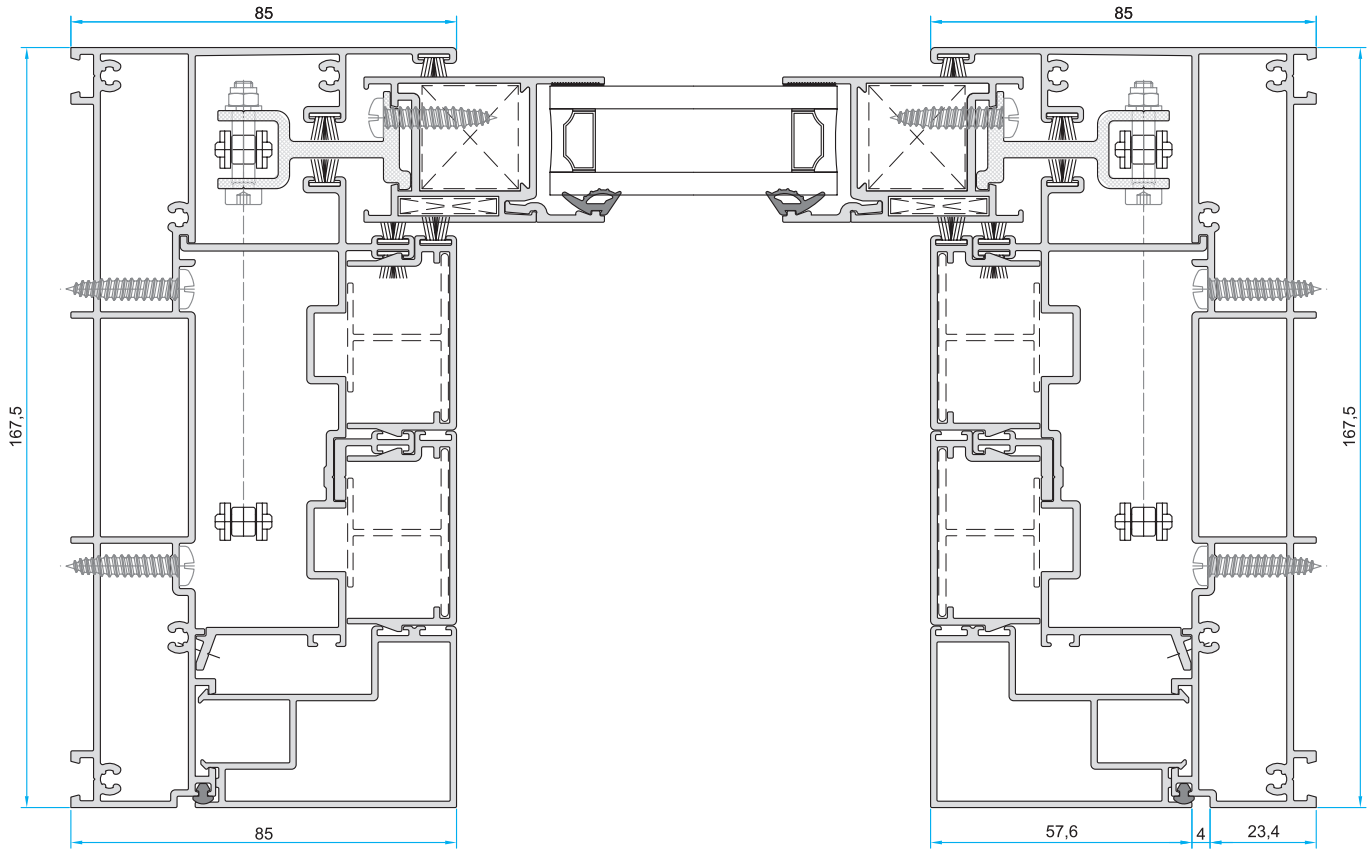

(4.8x25)
(4.8x25)
(4.8x25)
(4.8x25)
(4.8x25)
(4.8x25)
57
16
20
28
150°
167,5

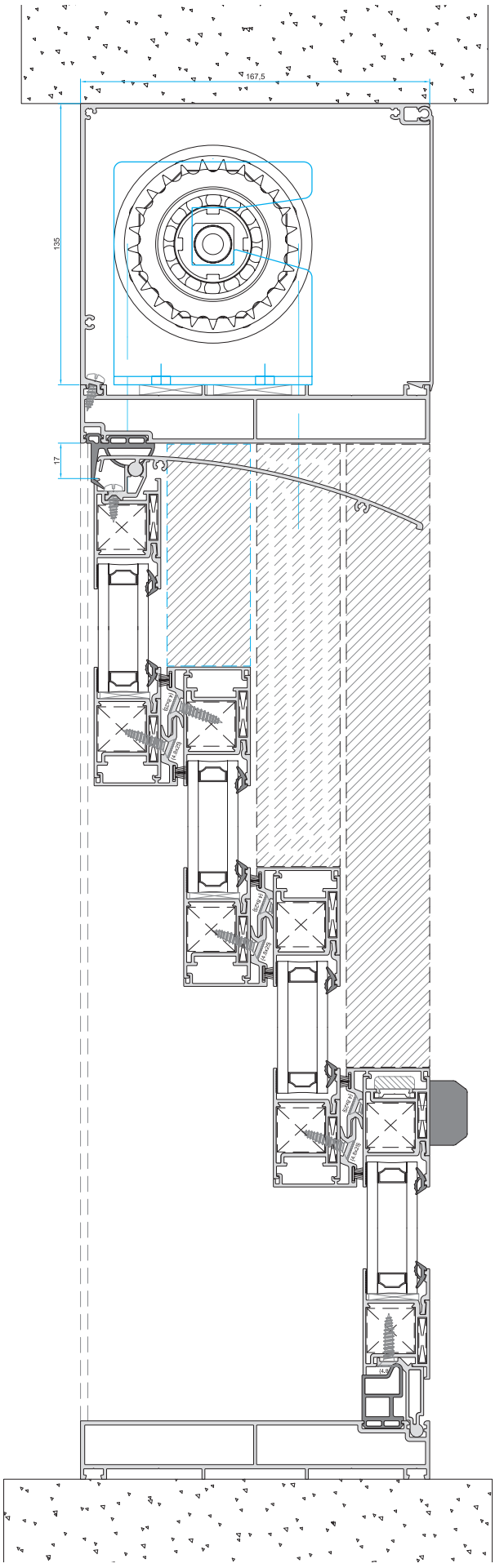

85
85
167,5
167,5
117,6
90,2
4
23,4

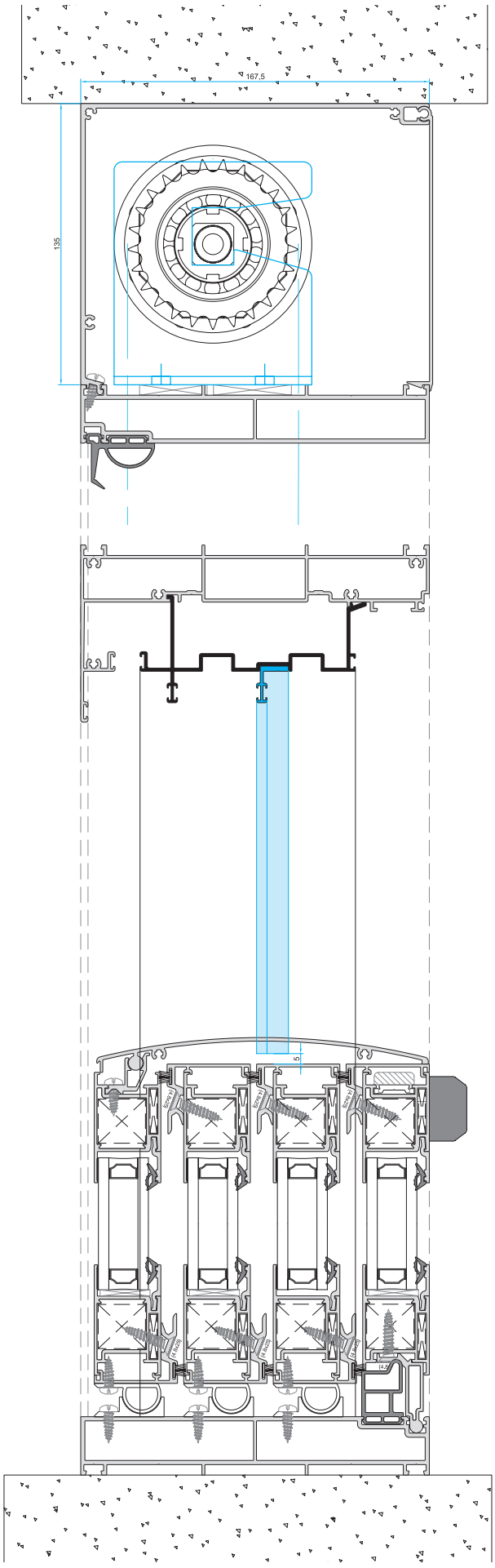

85
85
167,5
167,5
4
23,4

4 KANATLI YALITIMSIZ GİYOTİN SİSTEM / 4 SASH NON-THERMAL GUILLOTINE GLASS SYSTEM

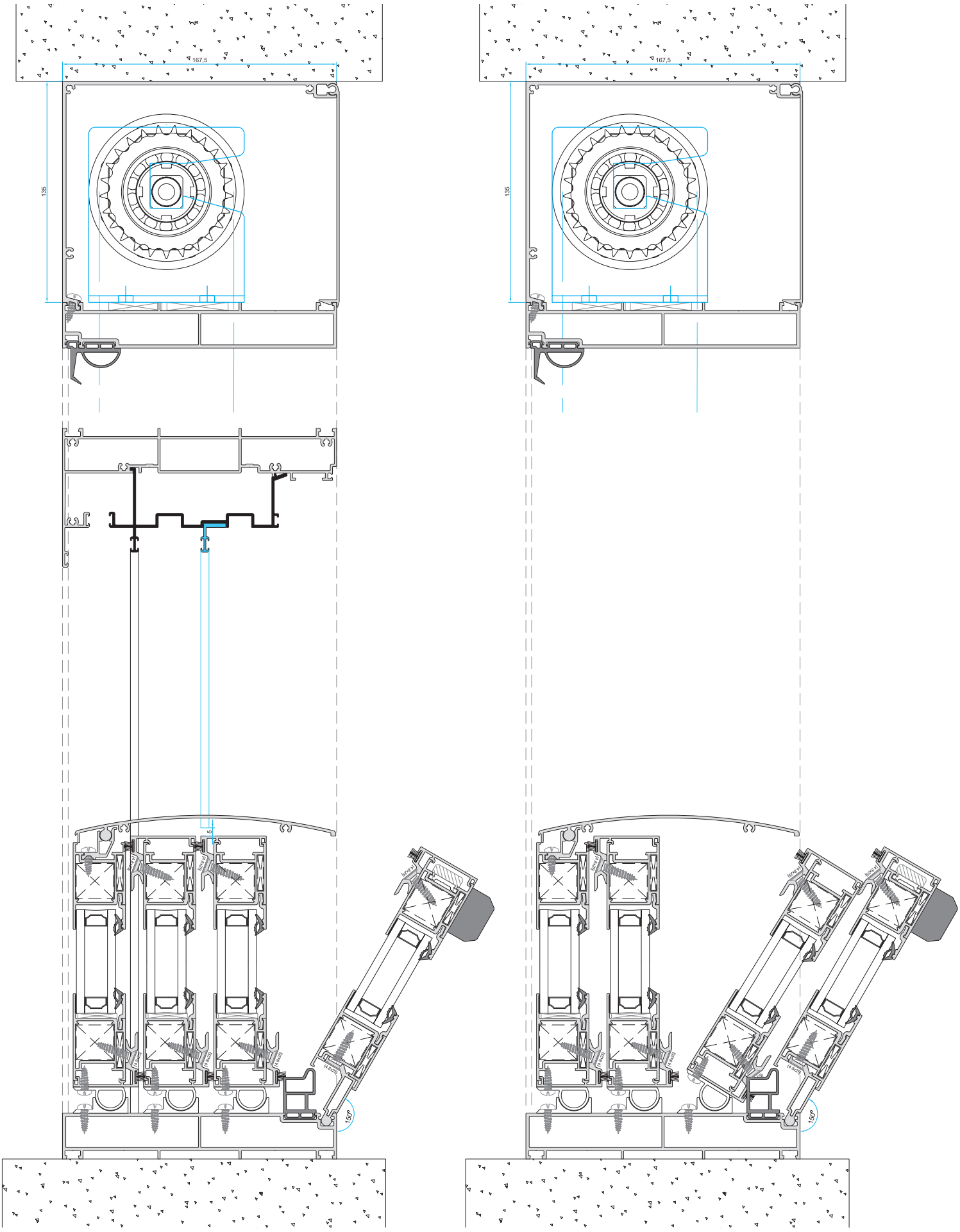




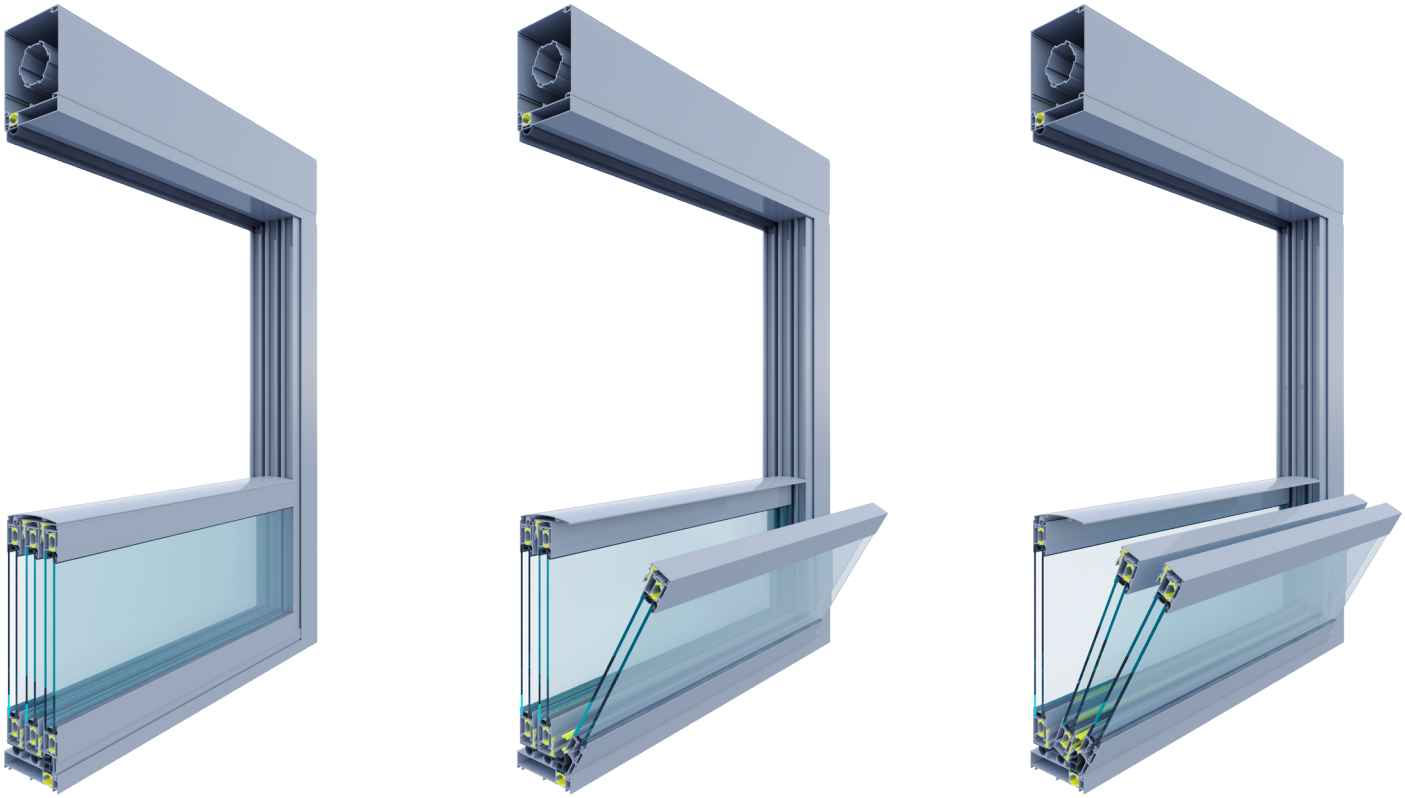

167,5
135
17


167,5
135
5

4 KANATLI YALITIMSIZ GİYOTİN SİSTEM / 4 SASH NON-THERMAL GUILLOTINE GLASS SYSTEM







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The Premium Outdoor Systems

YALITIMLI GİYOTİN SİSTEM

THERMAL GUILLOTINE GLASS SYSTEM

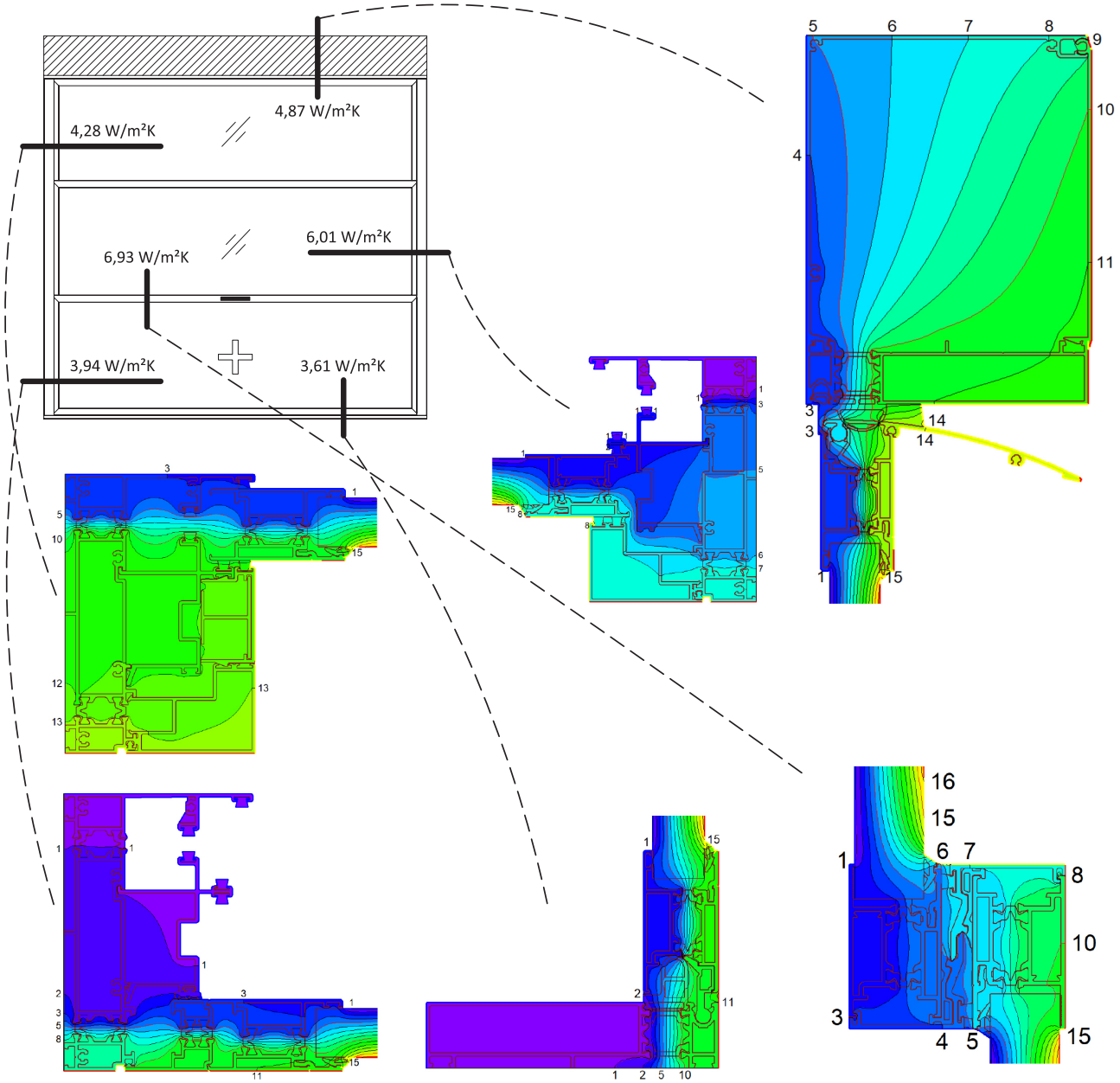
GL100

ISI YALITIM DEĞERLERİ (Uf)

THERMAL INSULATION VALUES (Uf)

GL100 - Isı Yalıtımlı Giyotin sisteminde, ısı transferi analizi yazılımı aracılığıyla oluşturulmuş termal hesap sonuçlarıdır

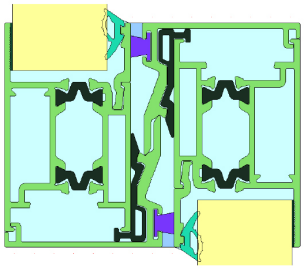
These are the thermal calculation results created through the heat transfer analysis software with the GL100 - Thermally Insulated Guillotine system.

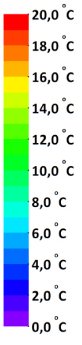


MALZEMELER VE KESİT RENKLENDİRMELERİ / MATERIALS AND SECTION COLORINGS

Material	λ[W/(m·K)]
Aluminium (Si alloys)	160,000
EPDM (ethylene propylene diene monomer)	0,250
Mohair (polyester) sweep	0,140
PVC, flexible (PVC-P) 40% softener	0,140
Panel	0,035
Slightly ventilated air cavity *	
Unventilated air cavity *	

* EN ISO 10077-2:2017, 6.4.3/anisotrop





** EN 10077-2 standardına göre; iç ortam sıcaklığı 20°C, dış ortam sıcaklığı 0°C olarak alınmıştır.
As EN 10077-2 standard; room temperature is 20°C, outer temperature is 0°C .

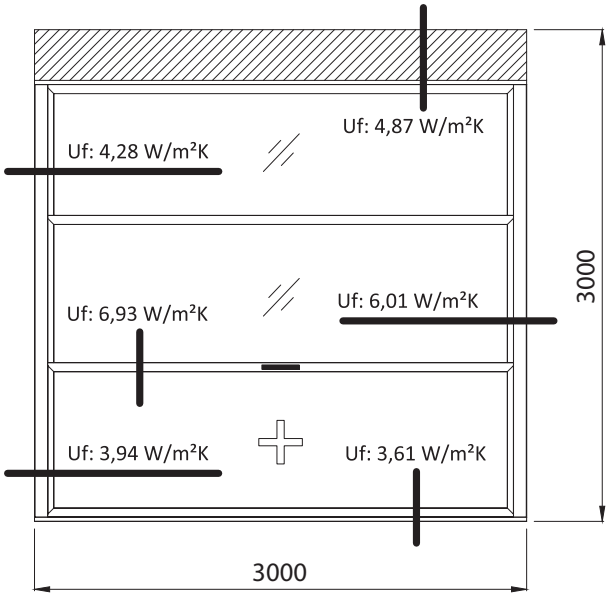
* Daha detaylı bilgi için, lütfen termal hesap raporlarını isteyiniz. / For further information, please ask for the reports.

CAM + PROFİL TOPLAM ISI YALITIM DEĞERLERİ (Uw)

GLASS + PROFILE TOTAL THERMAL INSULATION VALUES (Uw)

GL100 - Isı Yalıtımlı Giyotin sisteminde, ısı transferi analizi yazılımı aracılığıyla oluşturulmuş termal hesap sonuçlarıdır

These are the thermal calculation results created through the heat transfer analysis software with the GL100 -Thermally Insulated Guillotine system.



Uf ARALIĞI (Uf INTERVAL) : 3,61 - 6,93 W/m²K

$$U_w = \frac{(U_g A_g + U_f A_f + \Psi_g L_g)}{(A_g + A_f)}$$

Toplam ısı iletim değerinin hesaplanması
Calculation of total thermal transmittance value

$$\Psi_{A,B} = \frac{\Phi}{\Delta T} - U_{g1} \cdot b_{g1} - U_f \cdot b_f - U_{g2} \cdot b_{g2}$$

Isıl kayıp katsayısının hesaplanması
Calculation of thermal loss coefficient

Terimlerin Anlamları / Definitions Of Technical Word

Uframe **(Uf) :** Giyotin sistemin (camsız sadece profil kesiti) ısı iletim değeri / Thermal transmittance value of the guillotine system (profile section only without glass)

Uglass **(Ug) :** Camın ısı iletim değeri / Thermal transmittance value of the glass

Uwindow **(Uw) :** Cam dahil, giyotin sistemin toplam ısı iletim değeri / Total heat transfer value of the guillotine system, including glass

CAMA BAĞLI Uw TERMAL HESAP SONUÇLARI

Uw THERMAL CALCULATION RESULTS ACCORDING TO THE GLASS

U_{glass} Camın Isı İletim Değeri (Thermal Transmittance Value Of Glass)	U_{window} (Ebat/Dimension: 3000mm x 3000mm) Doğramanın Camla Birlikte Toplam Isı İletim Değeri (Total Thermal Transmittance Value Of The Casement With Glass)
Ug: 1,1 W/m²K	2,12 W/m²K
Ug: 1,3 W/m²K	2,27 W/m²K
Ug: 1,6 W/m²K	2,49 W/m²K
Ug: 2,0 W/m²K	2,78 W/m²K

Termal Hesap Koşulları / Thermal Calculation Conditions

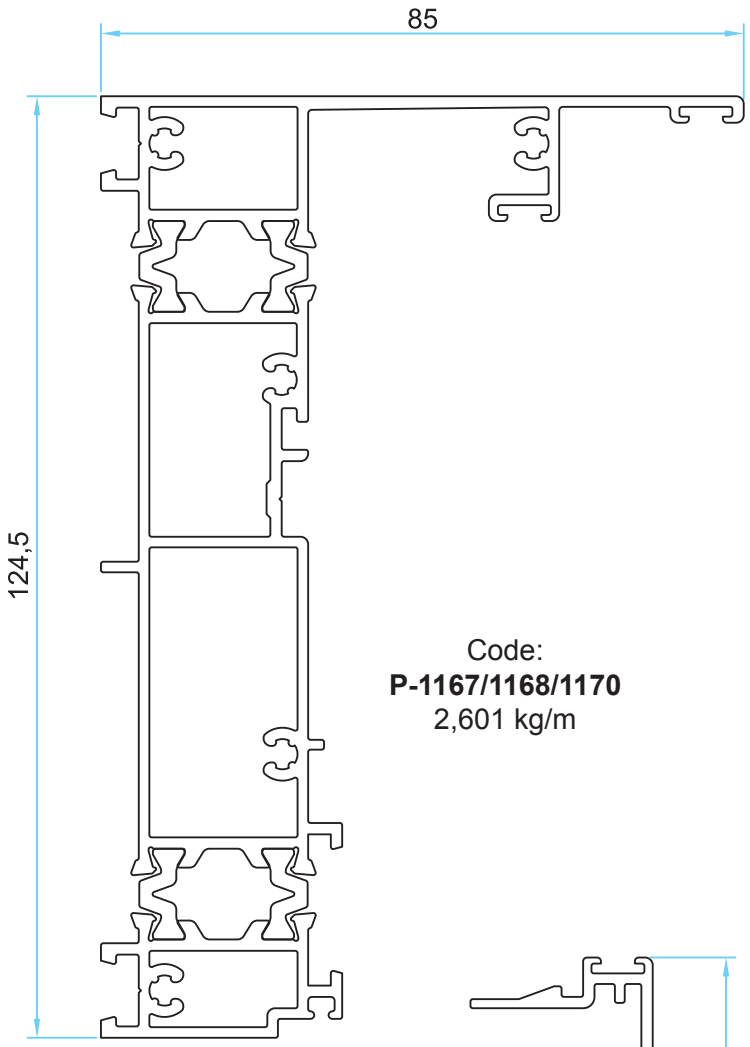
İç ortam sıcaklığı / Inside temperature : +22 °C
İç ortam bağıl nemi / Inside air relative humidity : %50
Dış ortam sıcaklığı / Outside temperature : - 10 °C
İç-Dış ortam sıcaklık farkı / Inside-outside air temperatue difference : 32 °C
Yoğuşma başlangıç sıcaklığı / Dew-point temperature : 11,1 °C
Isıcam çıtası türü / Spacer type : Standard
Cam kalınlığı / Glass thickness: 4mm + 16mm HB + 4mm [24mm]

Termal Hesap Standartları / Thermal Calculation Standards

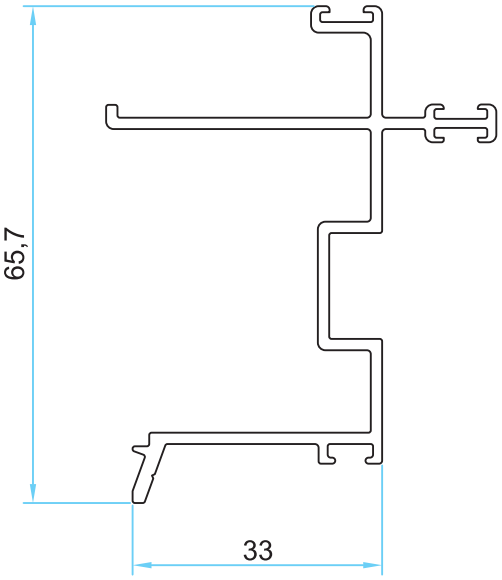
EN ISO 13788:2012 Hygrothermal performance of building components and building elementsInternal surface temperature to avoidcritical surface humidity and interstitial condensation
EN ISO 10077-1:2006 Thermal performance of windows, doors and shutters - Calculation of thermal transmittance
EN ISO 10077-2:2017 Thermal performance of windows, doors and shutters - Calculation of thermal transmittance
EN ISO 6946:1996 Building components and building elements Thermal resistance and thermal transmittance
EN ISO 10211:2007 Thermal bridges in building construction Heat flows and surface temperatures detailed calculations

YALITIMLI GİYOTİN SİSTEM PROFİLLERİ

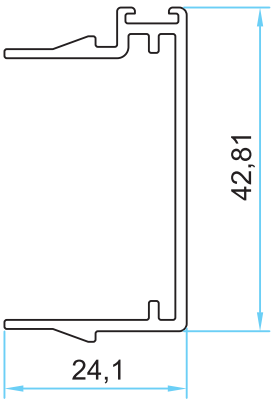
THERMAL GUILLOTINE SYSTEM PROFILES



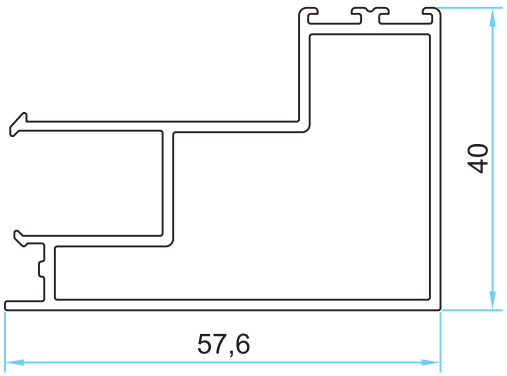
Code:
P-1167/1168/1170
2,601 kg/m



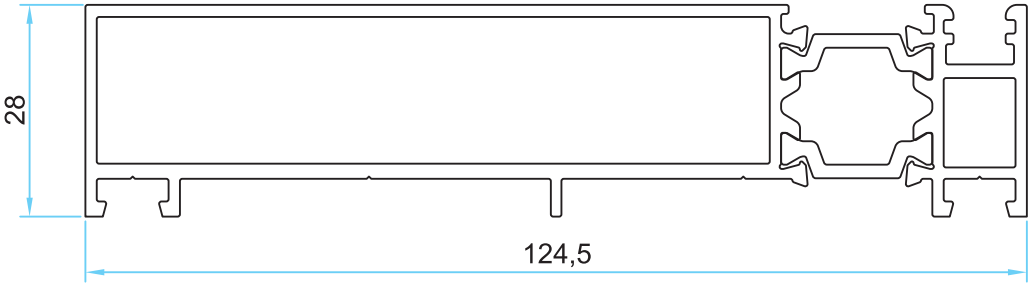
Code: **P-1169**
0,753 kg/m



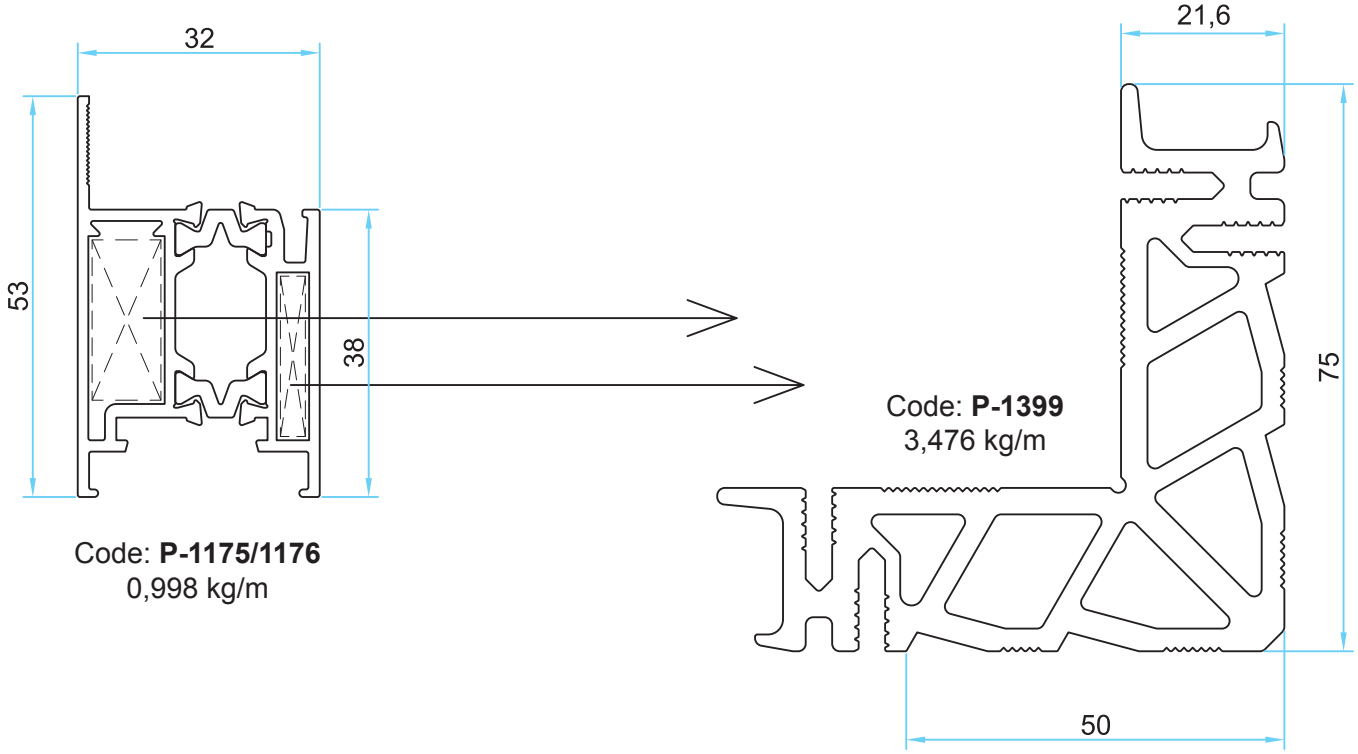
Code: **P-1171**
(0,425 kg/m



Code: **P-1172**
0,845 kg/m

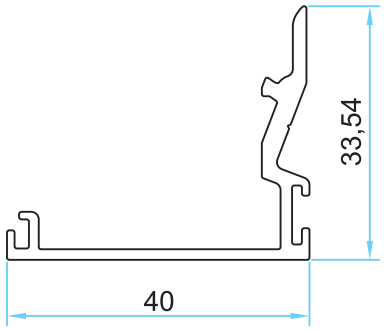


Code:
P-1173/1174
1,765 kg/m

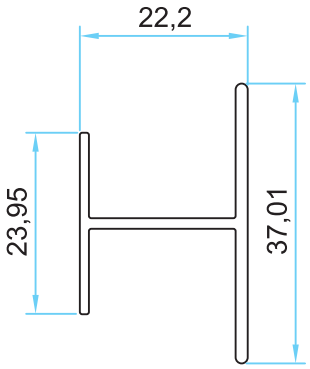


Code: **P-1175/1176**
0,998 kg/m

Code: **P-1399**
3,476 kg/m

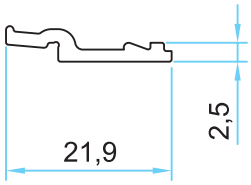


Code: **P-1178**
0,403 kg/m

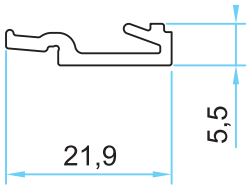


Code: **P-1179**
0,310 kg/m

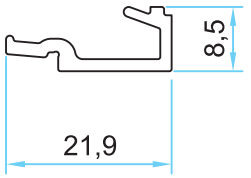
Code: **P-1183**
0,124 kg/m

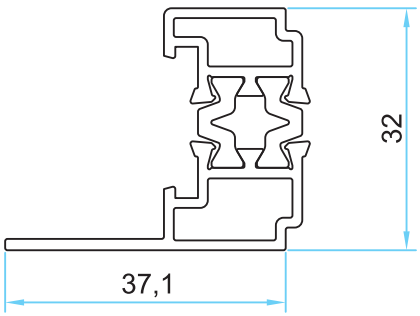


Code: **P-1184**
0,150 kg/m

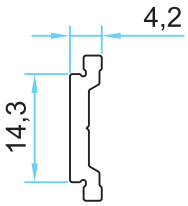


Code: **P-1185**
0,162 kg/m



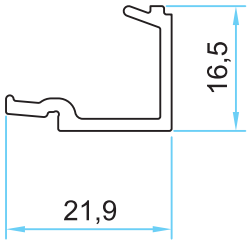


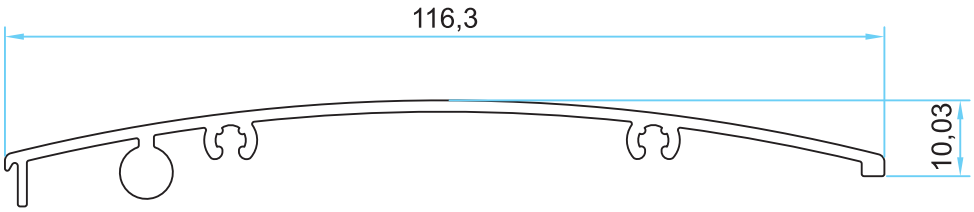
Code: **P-1180/1181**
0,675 kg/m



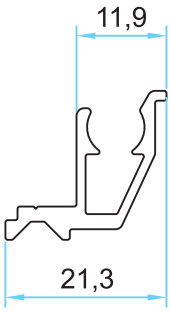
Code: **P-1182**
0,138 kg/m

Code: **P-1186**
0,195 kg/m

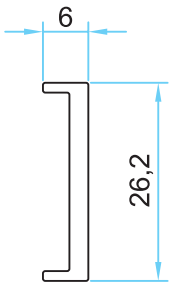




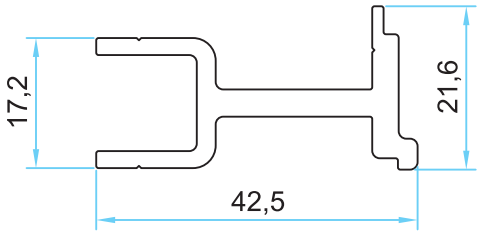
Code: **P-1187**
0,711 kg/m



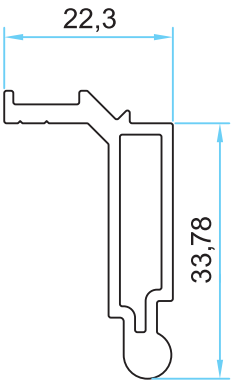
Code: **P-1188**
0,235 kg/m



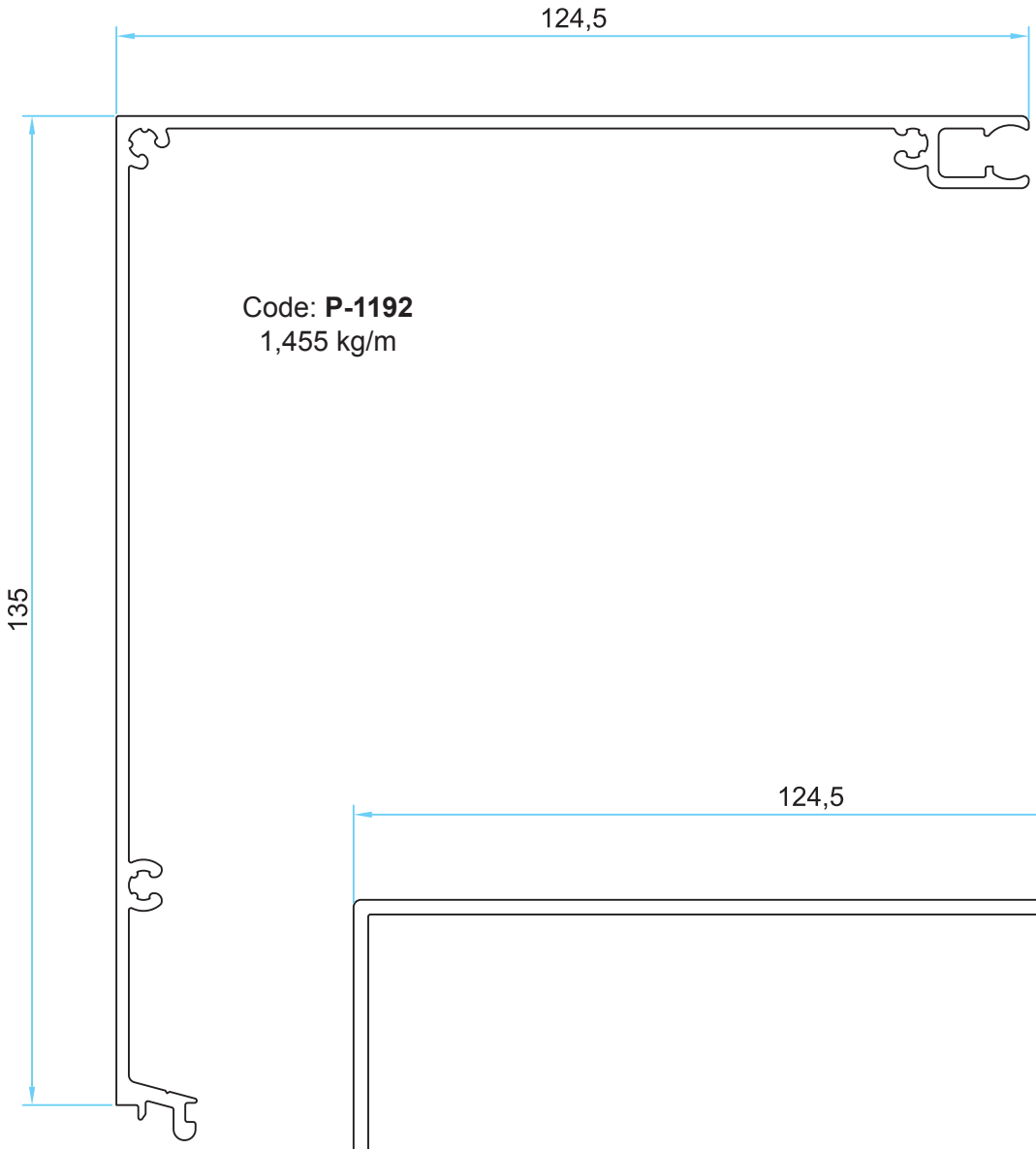
Code: **P-1189**
0,202 kg/m



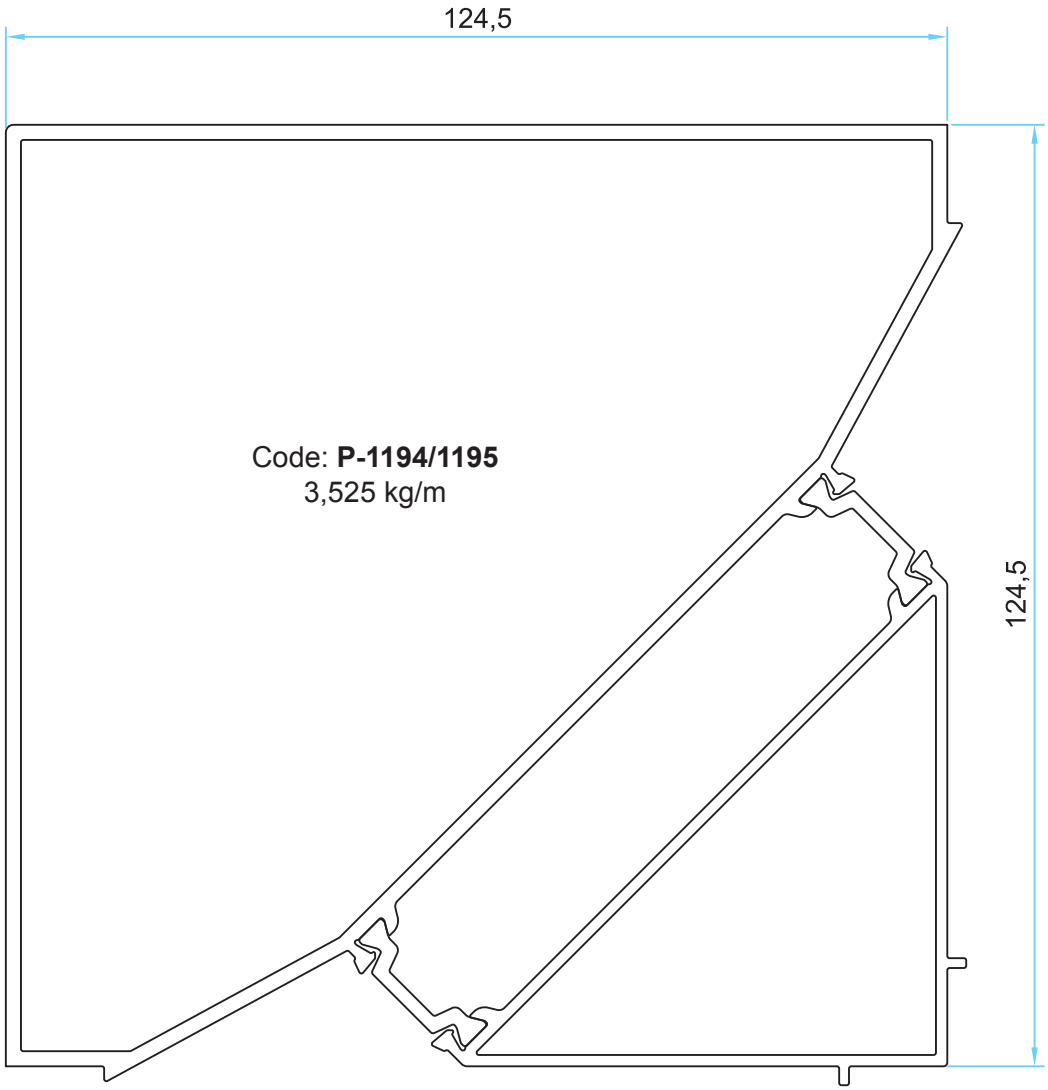
Code: **P-1190**
0,663 kg/m



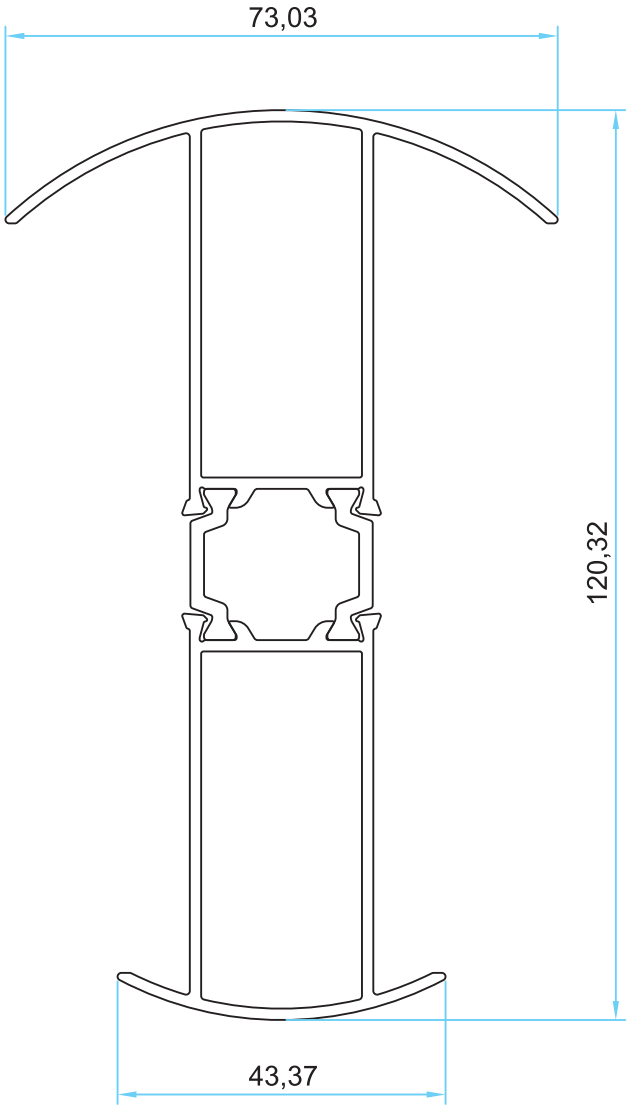
Code: **P-1191**
0,476 kg/m



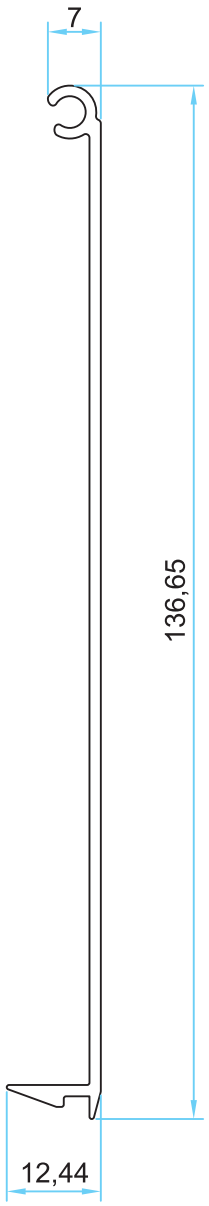
Code: **P-1192**
1,455 kg/m



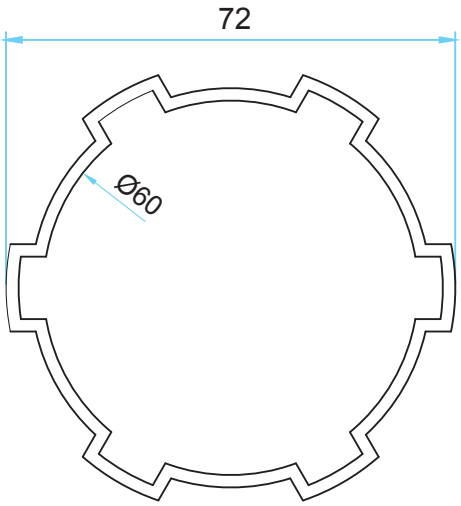
Code: **P-1194/1195**
3,525 kg/m



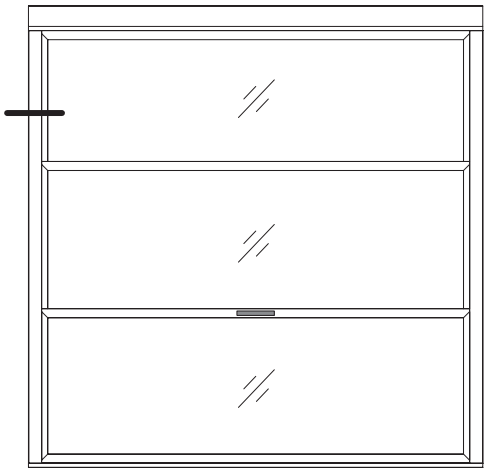
Code: **P-1196 / 1197**
1,721 kg/m

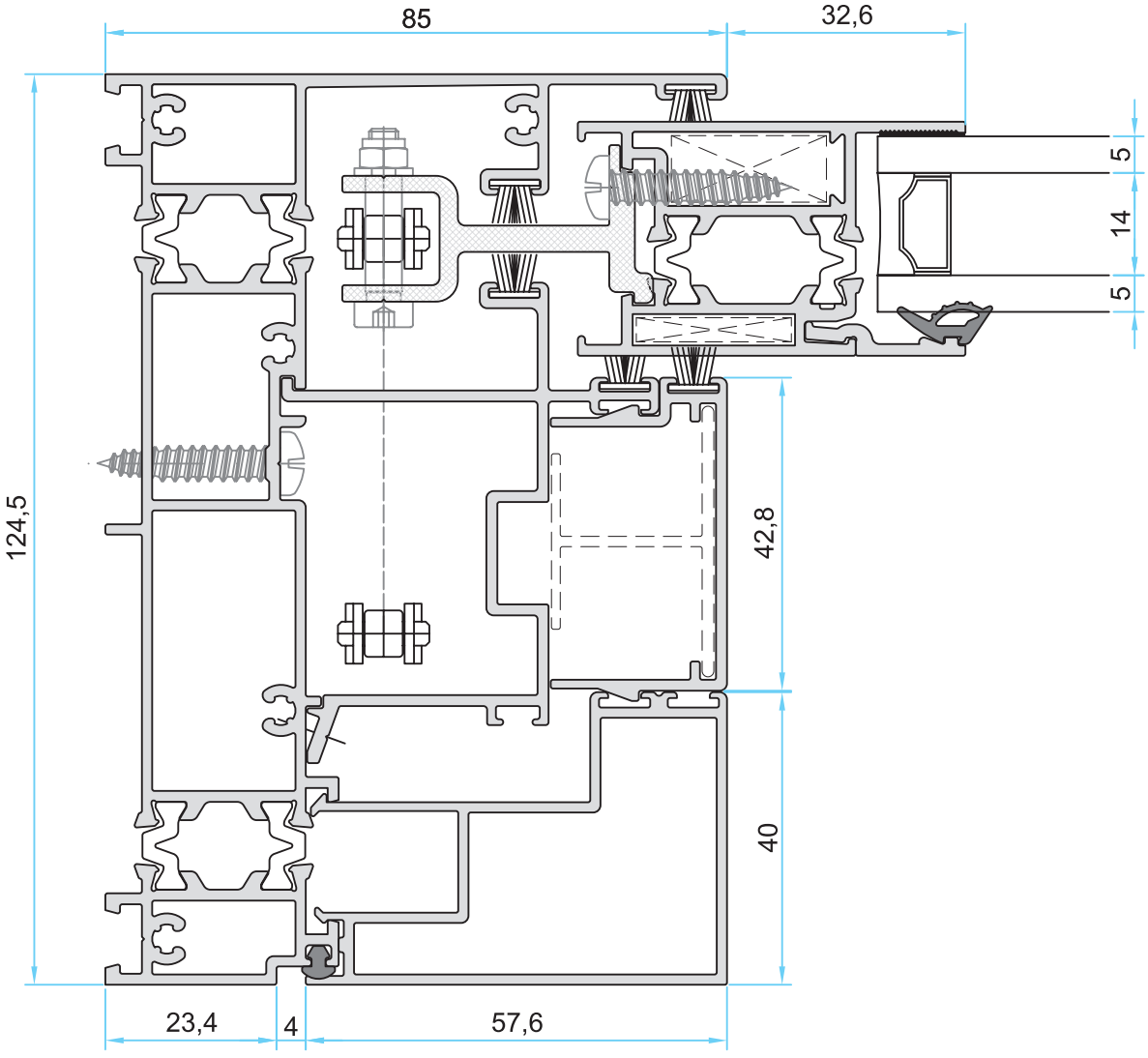


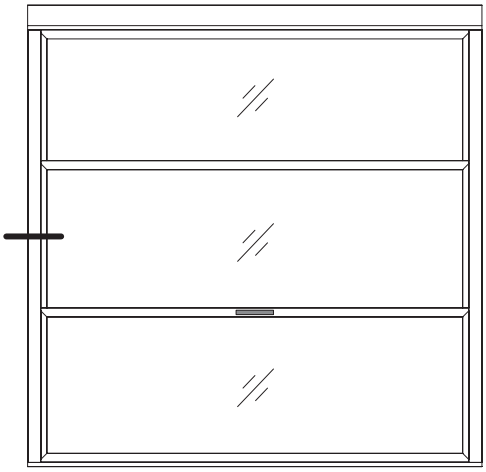
Code: **P-1193**
0,636 kg/m

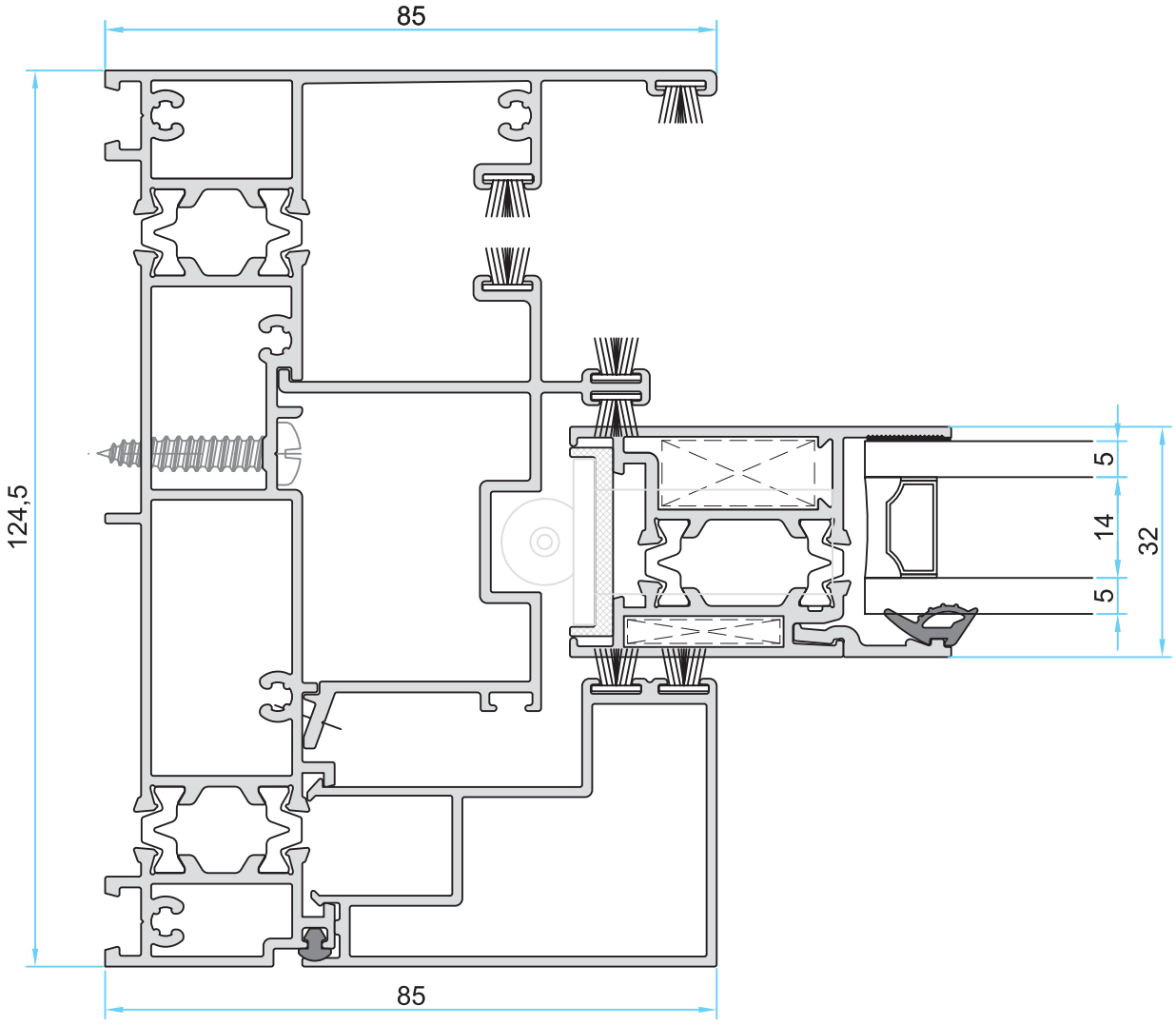


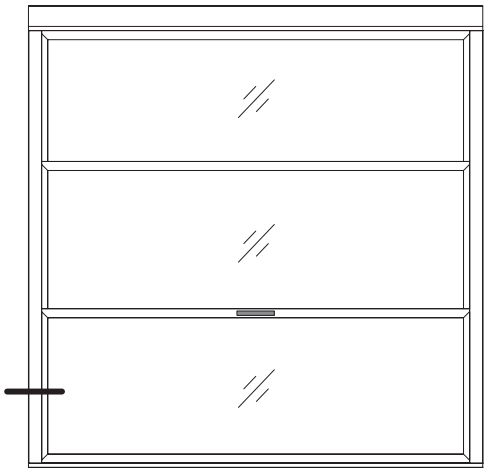
Code: **P-1553**
1,320 kg/m

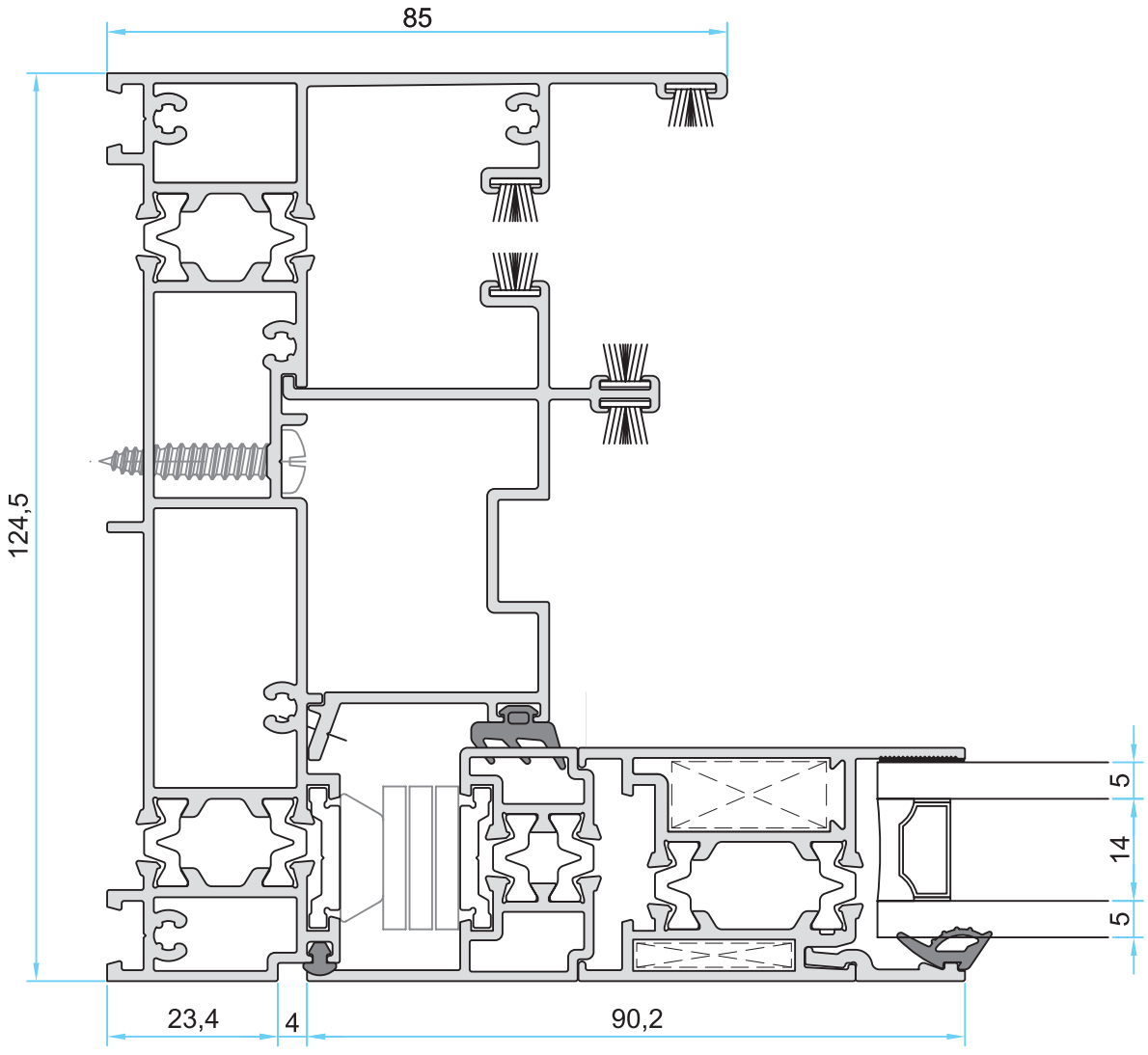


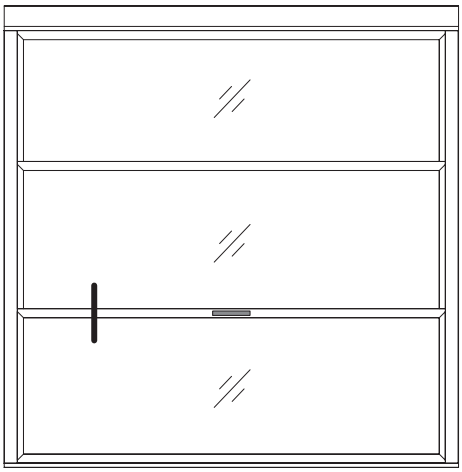

85
32,6
5
14
5
124,5
42,8
40
23,4
4
57,6

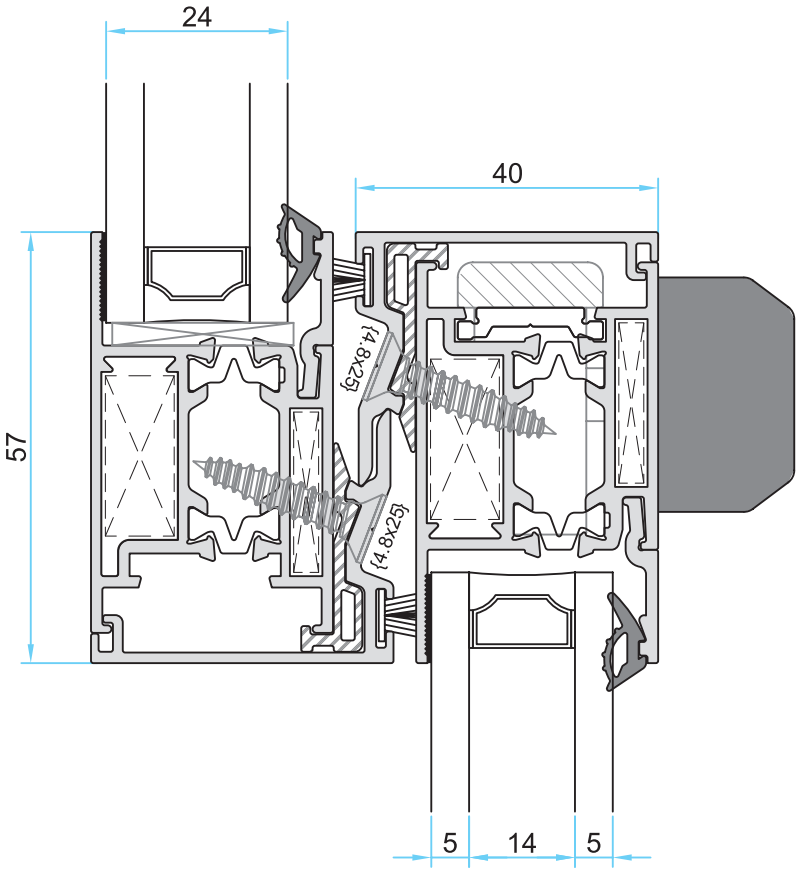


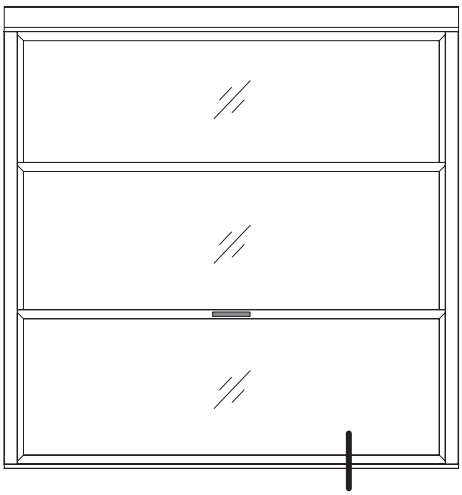

85
124,5
5
14
5
32
85



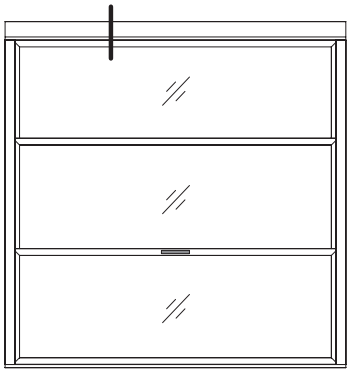

85
124,5
5
14
5
23,4
4
90,2

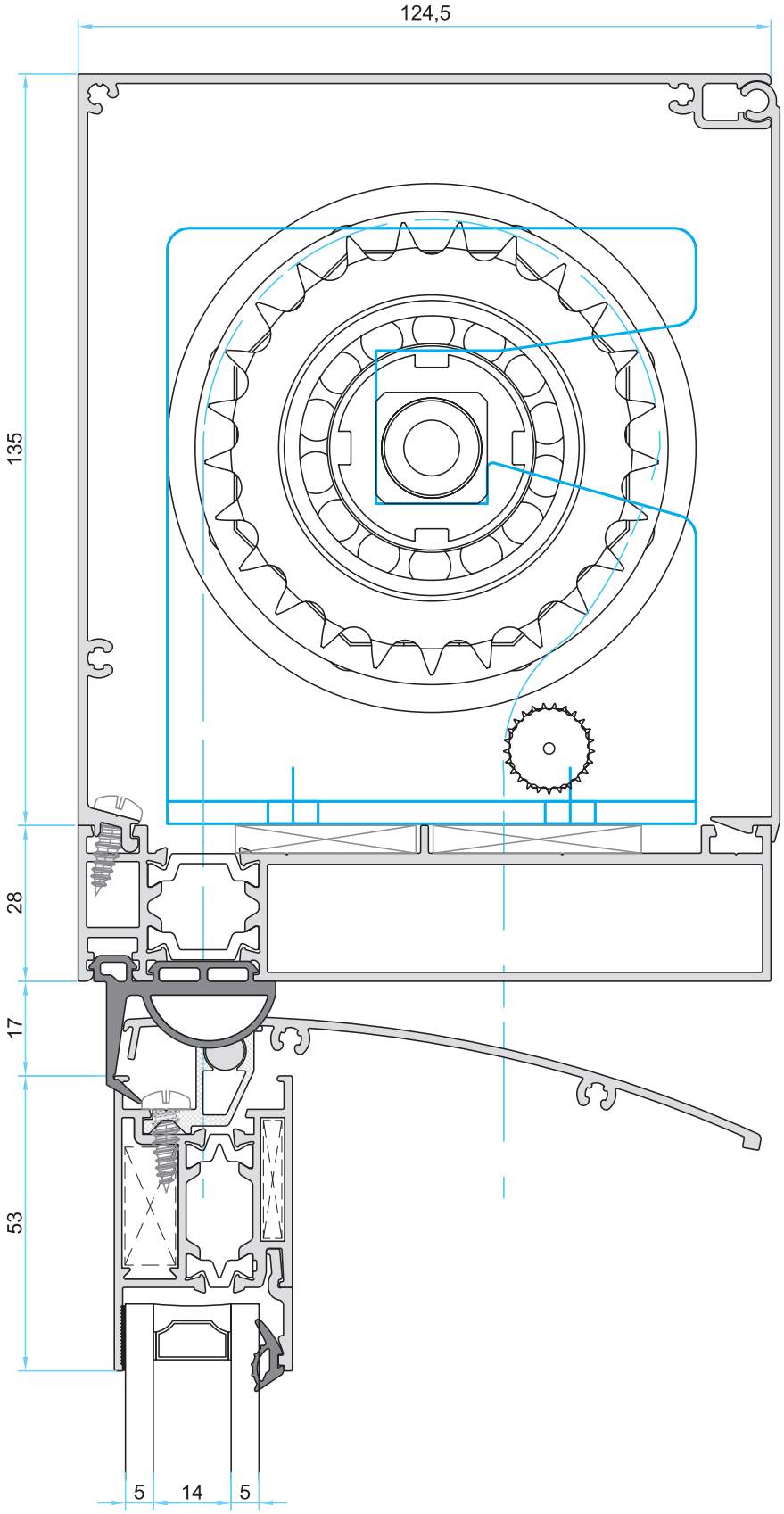


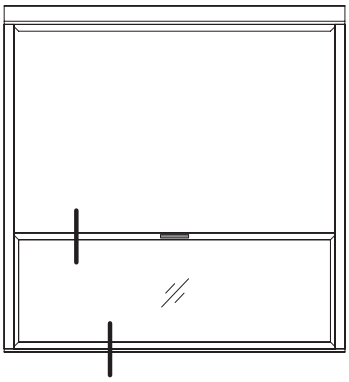

24
40
57
(4.8x25)
(4.8x25)
5
14
5

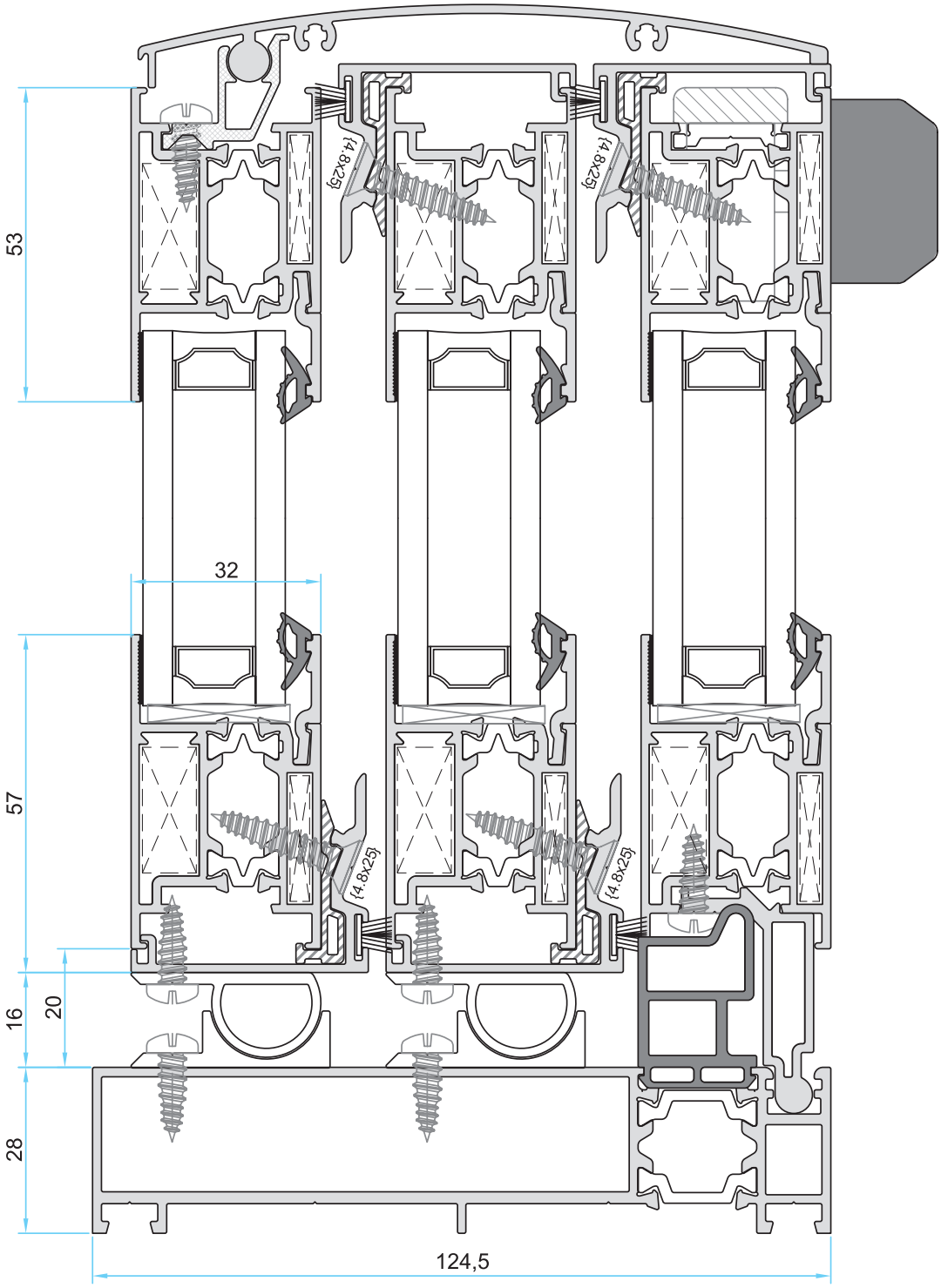


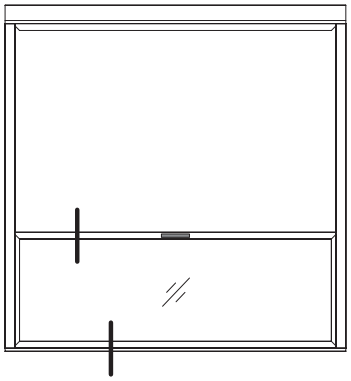
5
14
5
15
38
20
28
124,5

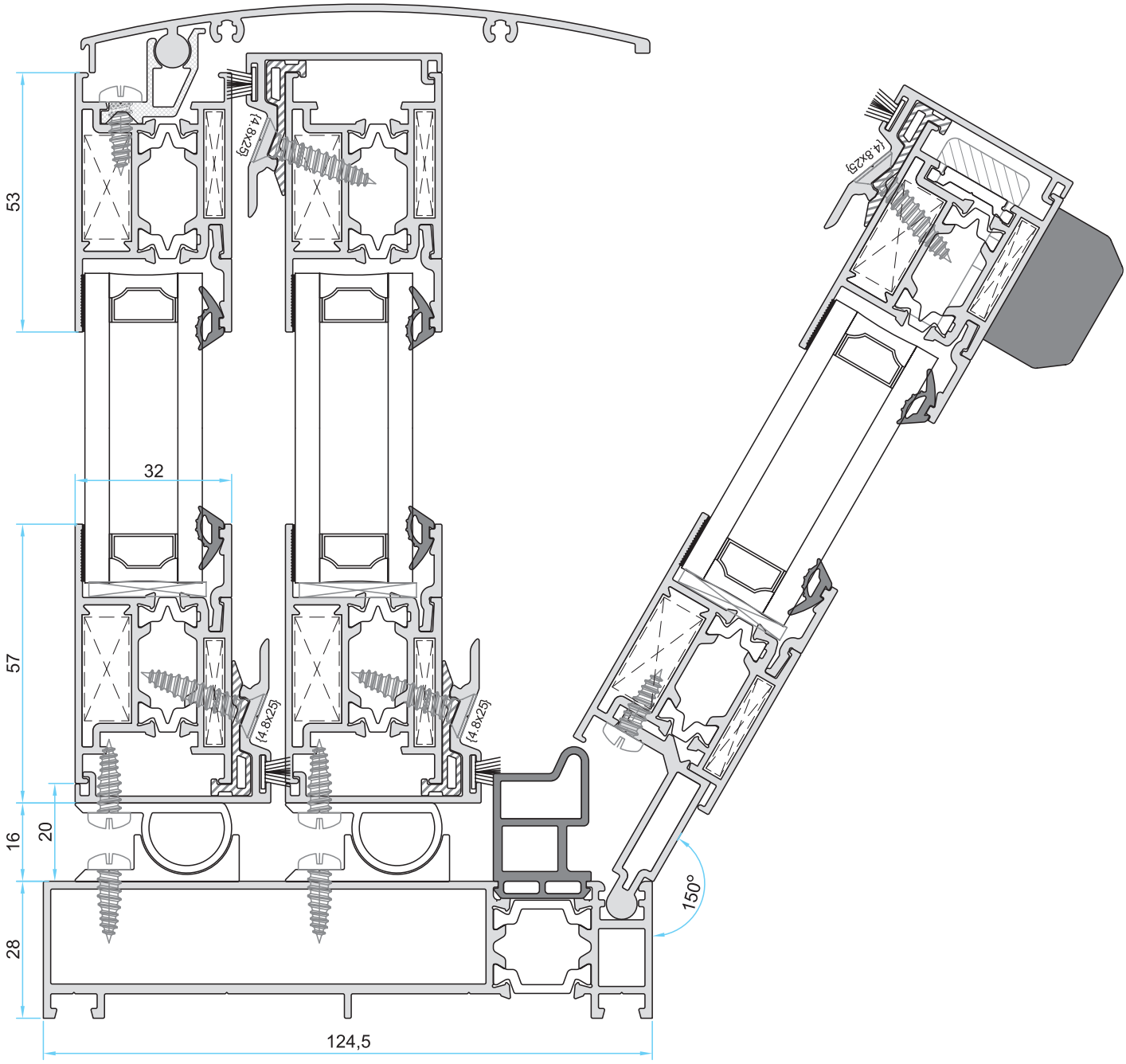


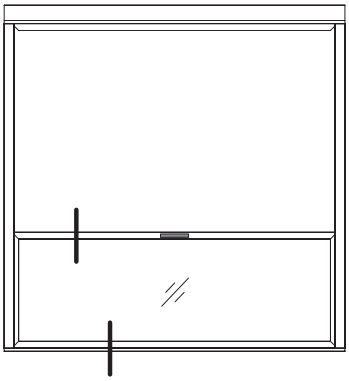

124,5
135
28
17
53
5
14
5

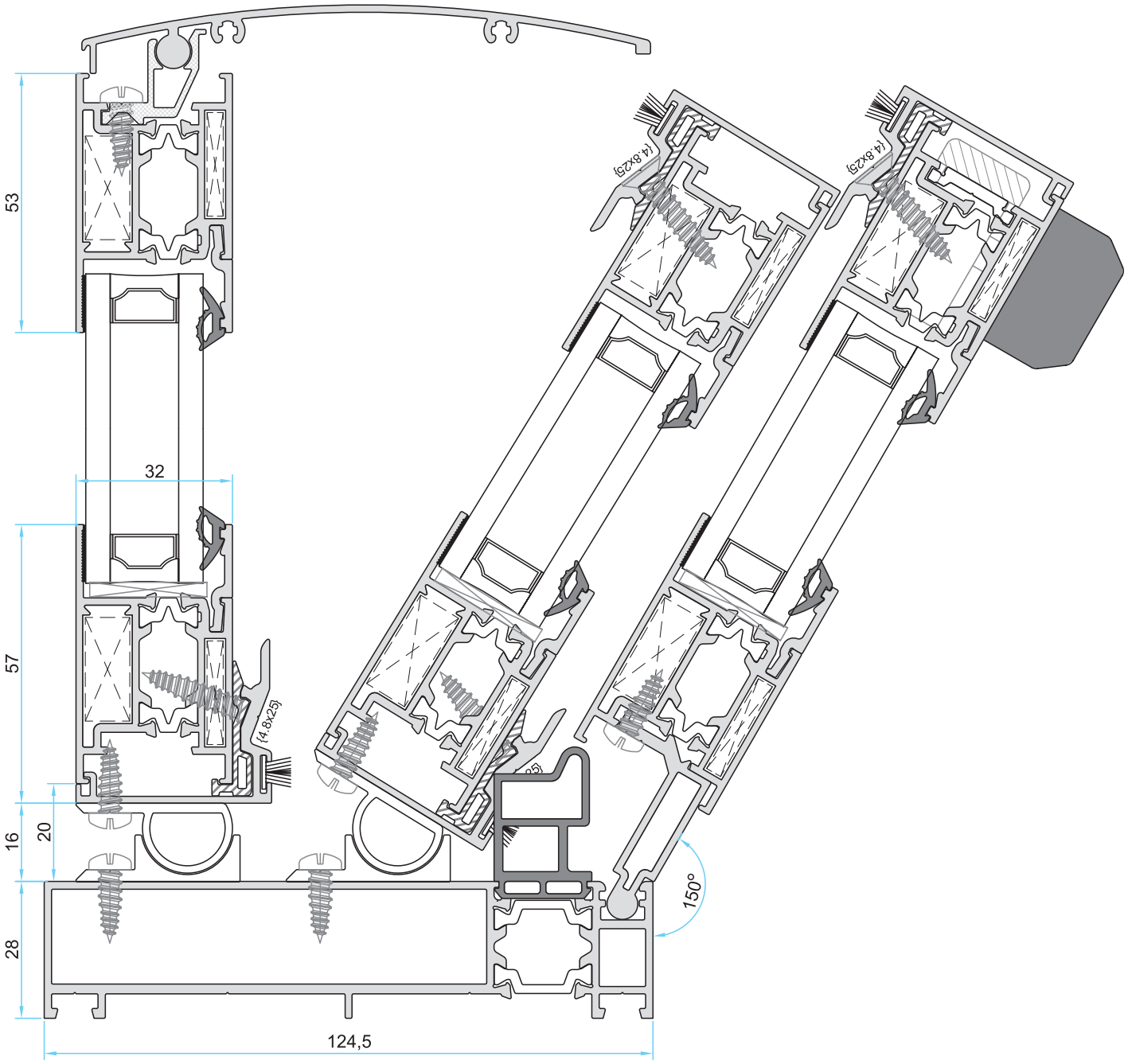


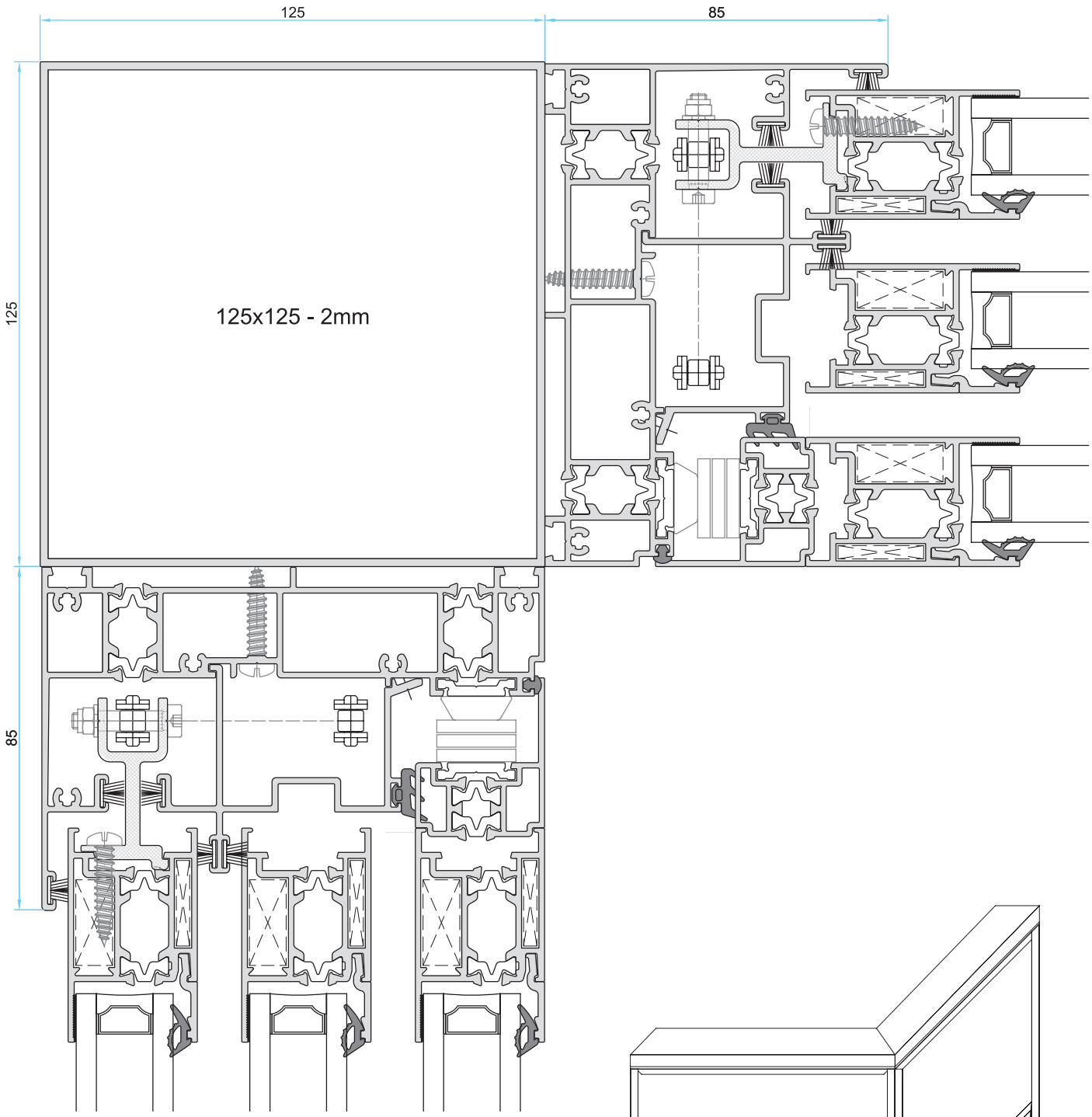

53
32
57
16
20
28
124,5
(4.8x25)
(4.8x25)
(4.8x25)
(4.8x25)



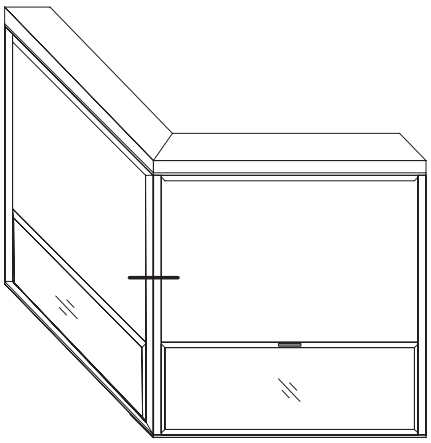

53
32
57
16
20
28
124,5
150°
(4.8x25)
(4.8x25)
(4.8x25)

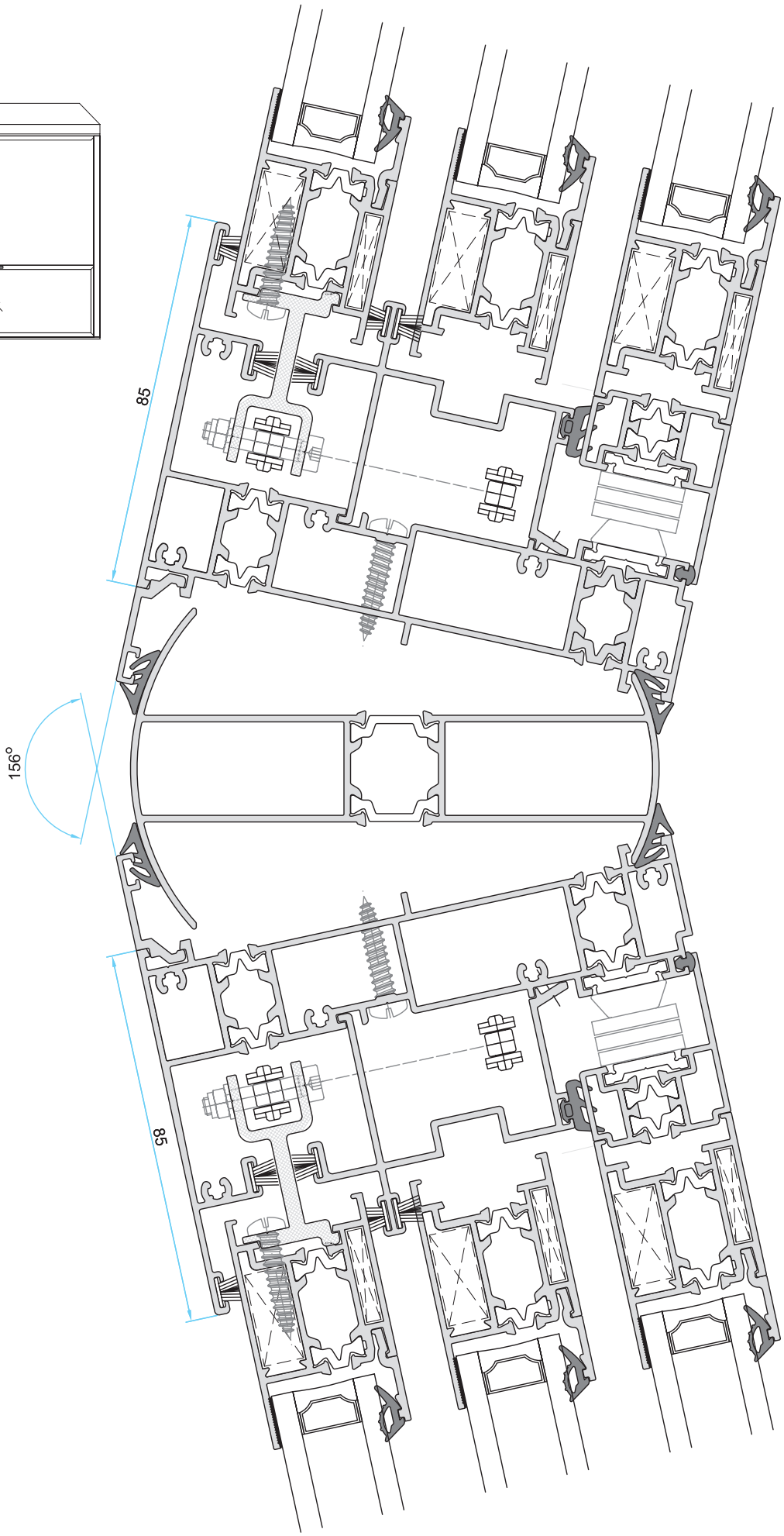


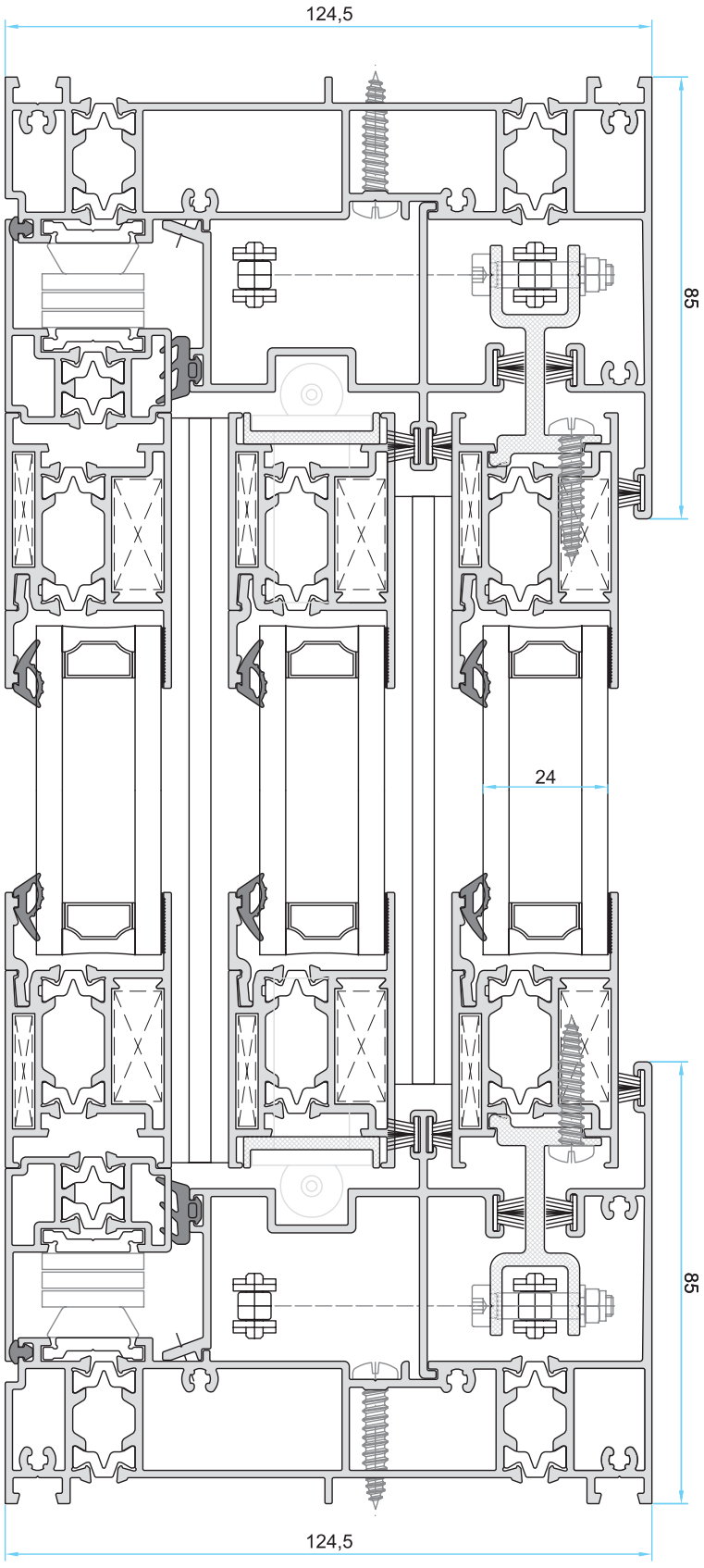

53
32
57
16
20
28
124,5
150°
(4.8x25)
(4.8x25)
(4.8x25)

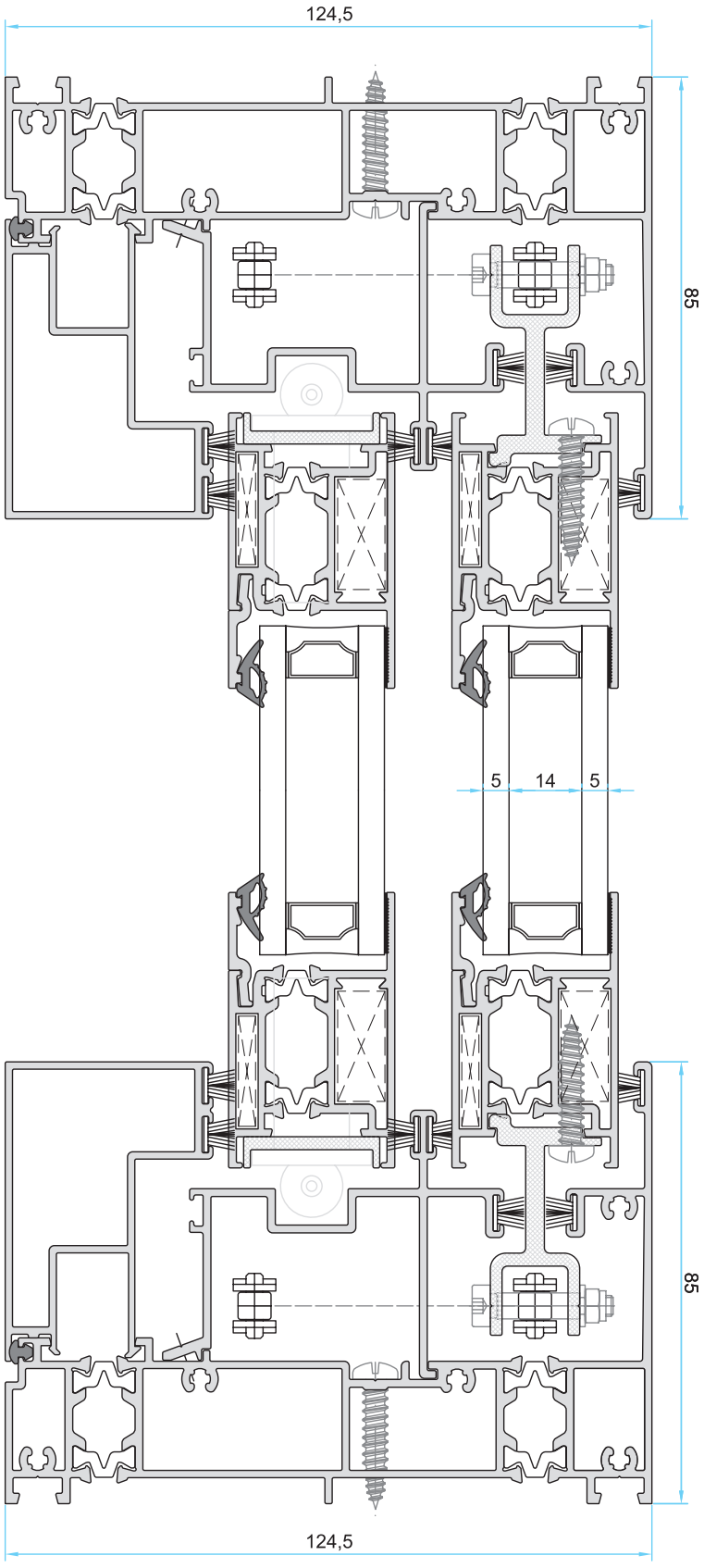

125
85
125
125x125 - 2mm
85

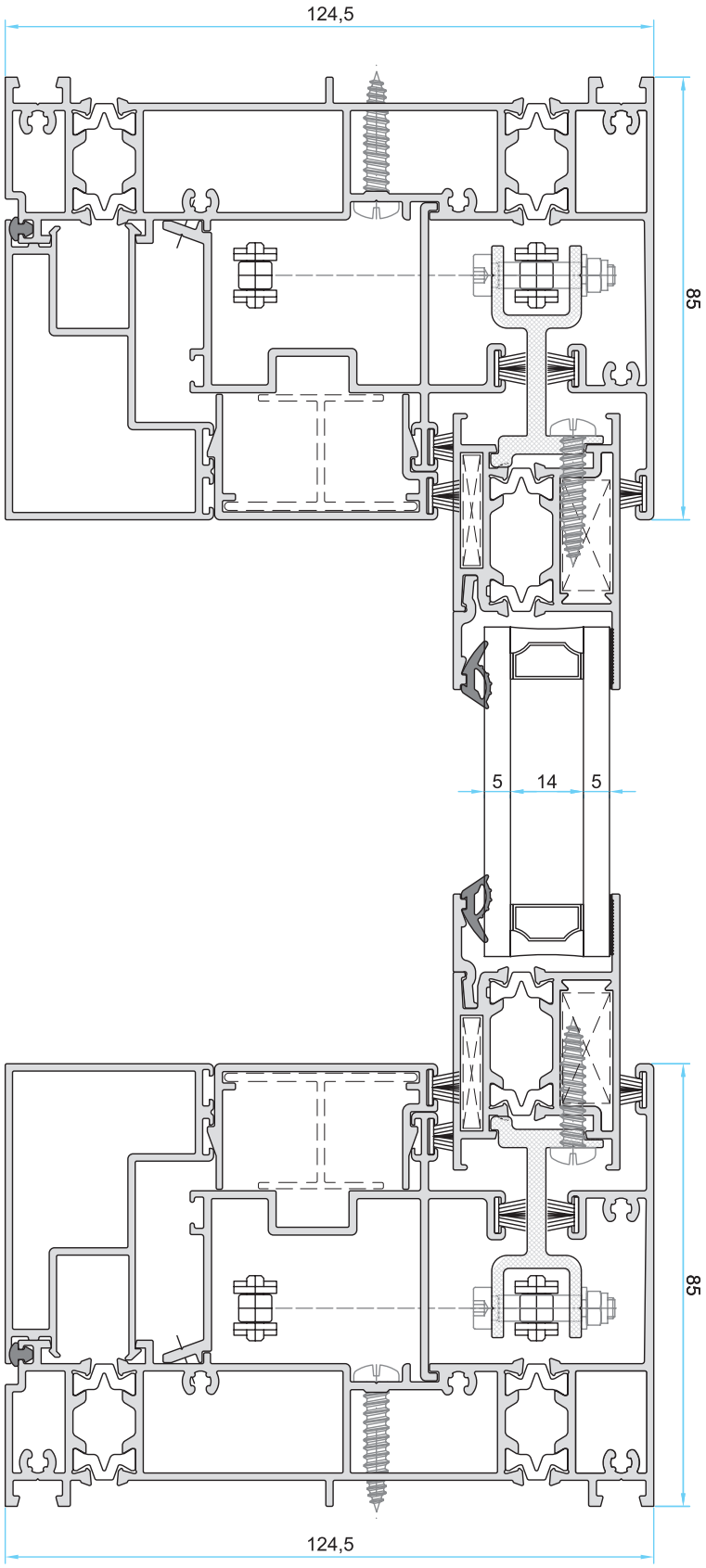
90°

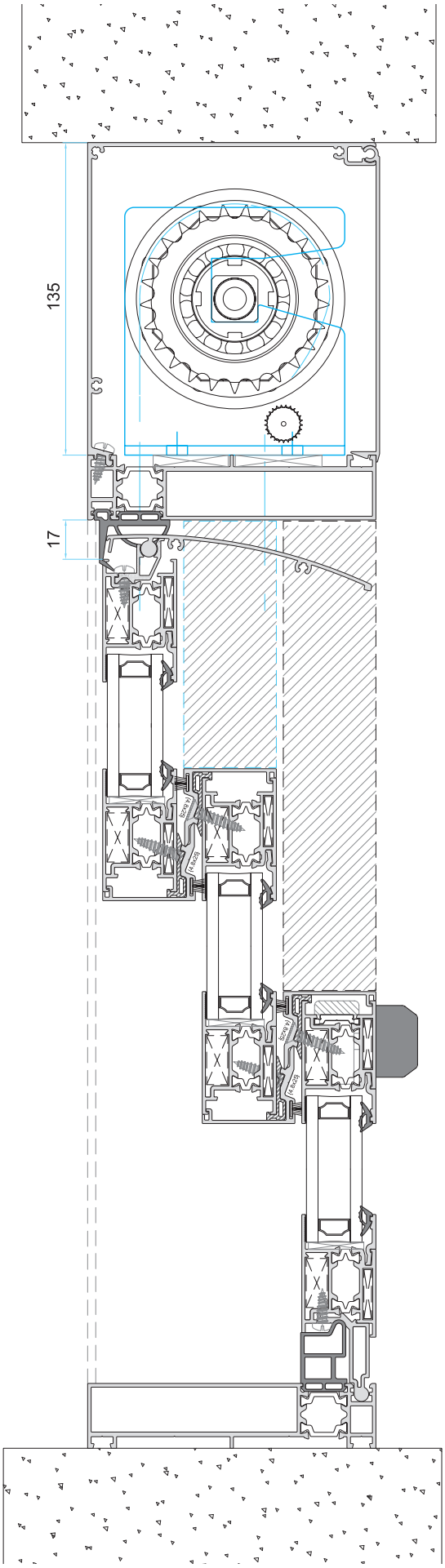


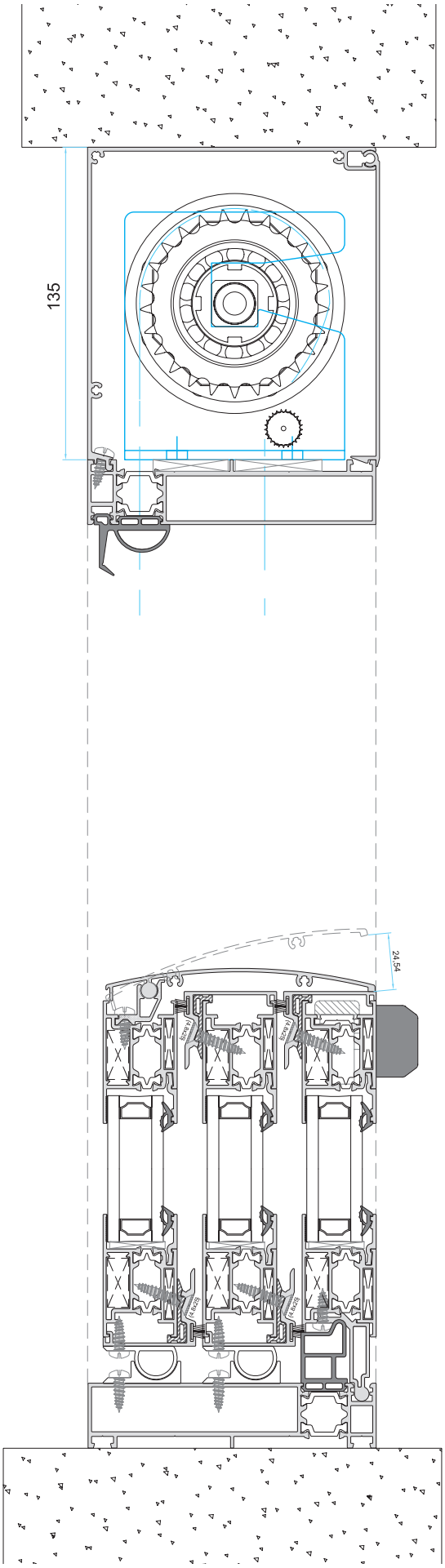

85
156°
85

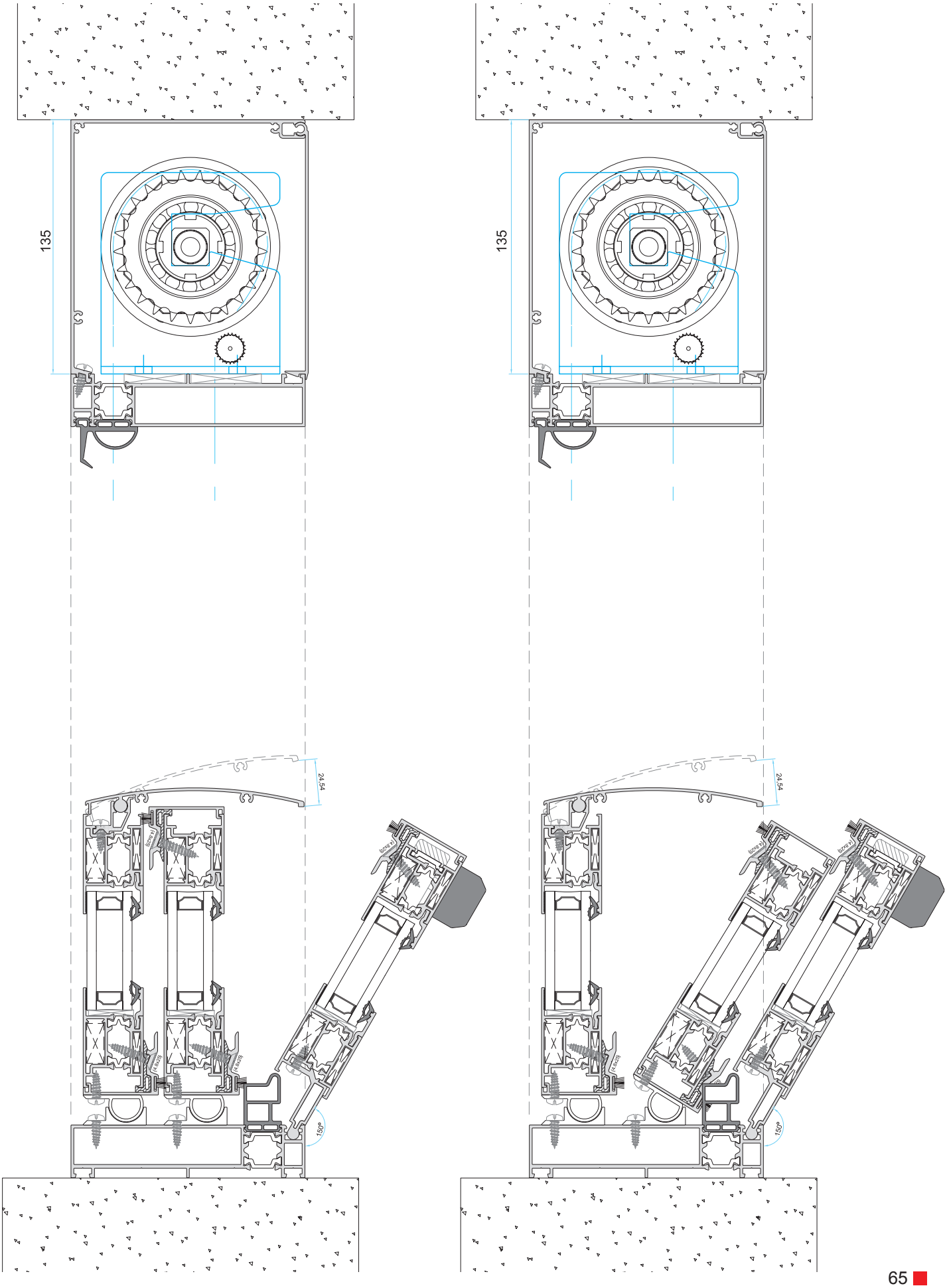

124,5
85
24
85
124,5

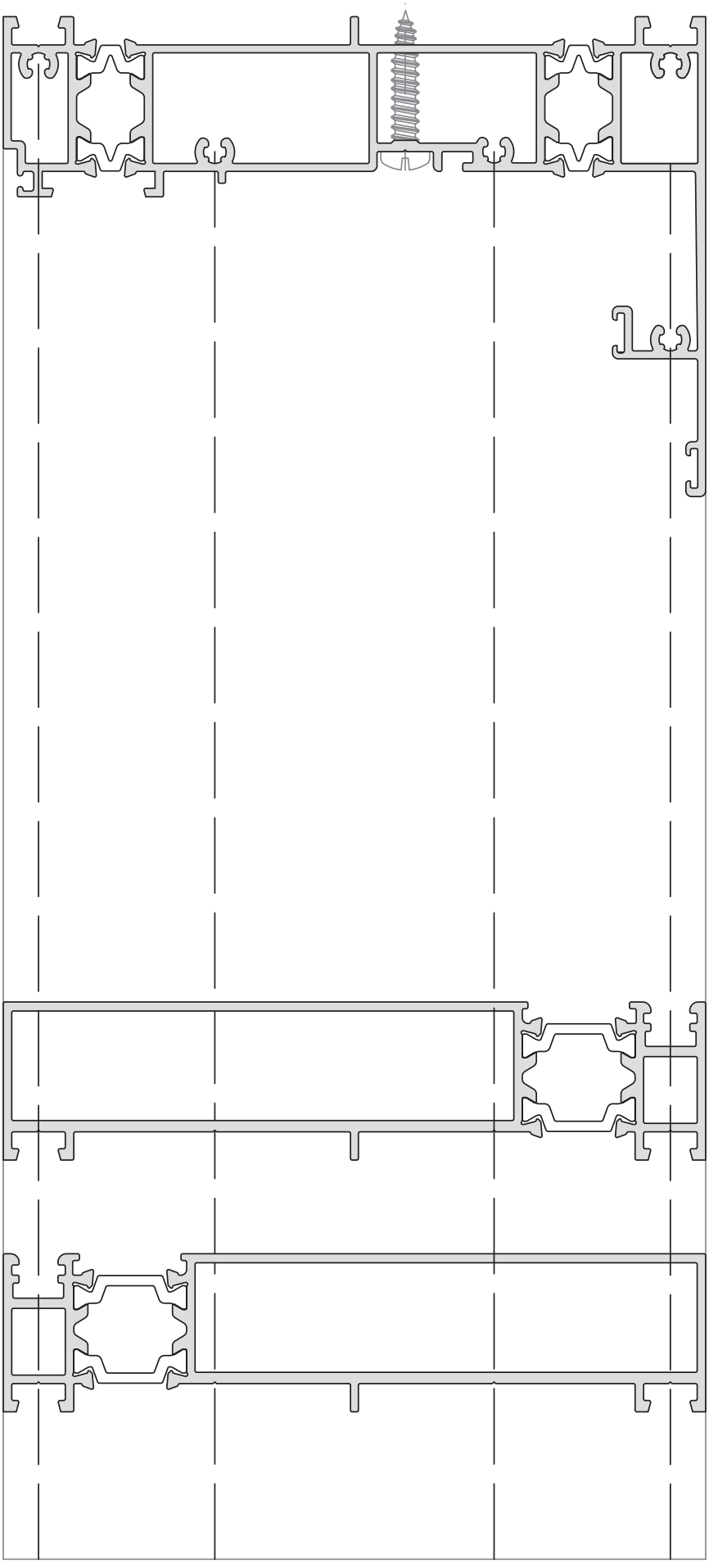

124,5
85
5
14
5
85
124,5


124,5
85
5
14
5
85
124,5


135
17


135
24.54


135
135
24.54
24.54
150°
150°



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