



G TECH
ALÜMİNYUM

KATALOG 2026

Bioklimatik Sistemler

BIOCLIMATIC SYSTEMS

Gökyüzü ile aranızdaki en şık detay. Motorlu hareketli panelli alüminyum pergola sistemleri — Lunarıs & Skylis.



Hakkımızda

ABOUT US



GTEKAL – G Tech Alüminyum, İstanbul merkezli bir alüminyum sistem üreticisi ve ihracatçısıdır. Alüminyum kompozit panel, giyotin cam sistemleri, sabit cam tavan ve pergola sistemleri, bioklimatik sistemler, kapı-pencere sistemleri ve özel ekstrüzyon profilleri ile mimari alüminyum çözümlerinin tamamını tek çatı altında sunuyoruz.

İkitelli OSB Eskoop Sanayi Sitesi'ndeki üretim ve depo tesisimizde, projeye özel kesim, işleme ve paketleme ile sistemlerimizi yurt içi ve yurt dışındaki bayilerimize hazır montaj setleri hâlinde ulaştırıyoruz. Bu katalogta yer alan veranda ve bioklimatik pergola sistemleri; profil kesitleri, aksesuar listeleri, montaj detayları ve 3D birleşim çizimleriyle birlikte sunulmaktadır.

Tüm profillerimiz EN AW-6063 T5/T6 alaşımlı alüminyumdan üretilir; elektrostatik toz boya (RAL) veya eloksal yüzey seçenekleriyle tedarik edilir. Bayilerimize teknik destek, metraj ve maliyet hesaplama araçları ile satış sonrası hizmet sağlıyoruz.

GTEKAL – G Tech Aluminium is an Istanbul-based manufacturer and exporter of architectural aluminium systems. Our range covers aluminium composite panels, guillotine glass systems, fixed glass roof and pergola systems, bioclimatic systems, window & door systems and custom extrusion profiles.

From our production and warehouse facility in İkitelli OSB Eskoop Industrial Estate we supply project-specific cut, machined and packed kits to our dealers in Türkiye and abroad. The veranda and bioclimatic pergola systems in this catalogue are presented with profile sections, accessory lists, assembly details and 3D joint drawings.

All profiles are extruded from EN AW-6063 T5/T6 alloy and supplied with electrostatic powder coating (RAL) or anodised finishes. We support our dealers with technical assistance, take-off and cost calculation tools and after-sales service.

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İçindekiler

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Lunaris

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Skylis

BIOKLİMATİK SİSTEM / BIOCLIMATIC SYSTEM

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Bu katalogdaki profil kesitleri ölçeksizdir; ölçüler mm cinsindendir. Ağırlıklar kg/m olarak EN AW-6063 alaşımı için verilmiştir.
Profile sections are not to scale; dimensions in mm. Weights in kg/m for EN AW-6063 alloy.



SİSTEM / SYSTEM

Lunaris

BİOKLİMATİK SİSTEM / BIOCLIMATIC SYSTEM

Çift başlı ray tasarımı ile birden fazla modülün tek ray üzerinde birleştiği, gizli oluk ve kolon içi drenajlı, motorlu döner panelli bioklimatik pergola sistemi. Paneller 30° / 45° / 90° açılır ve ray boyunca kayarak toplanır.

Sistem Özellikleri

SYSTEM FEATURES

Özel olarak geliştirilen çift başlı ray tasarımı sayesinde, iki sistemi tek bir ray profili üzerinde birleştirerek sistemler arasındaki izolasyon sorununu tamamen ortadan kaldırdık.

Özel tasarım Ray Sistemi ile birden fazla modül, en az ayak ve kiriş yapısı ile birbirine bağlanabilir. Bu durum hem çatıda hem de mekanda ferah bir görünüm sağlar.

Birden fazla modülün olduğu sistemlerle %50 daha az ayak ve kiriş görünür.

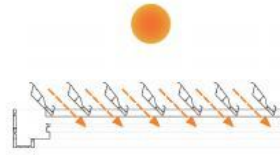
Thanks to our specially engineered dual-head rail design, two systems are integrated into a single rail profile, completely eliminating the insulation issues that typically occur between separate systems.

The specially designed rail system enables multiple modules to be connected using a minimal number of posts and beams. This provides a clean, seamless appearance while creating a more spacious feel both on the roof and within the outdoor living area.

In multi-module configurations, up to 50% fewer posts and beams are visible, resulting in a more elegant architectural appearance.



Çift başlı ray mekanizması / Dual-head rail mechanism



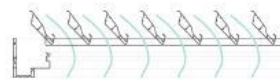
Işığ ı kontrol edin, konforu yönetin.

Control daylight, optimize comfort.



Her mevsimde güvenli koruma.

Reliable protection in all weather conditions.



Dayanıklı yapı, kesintisiz konfor.

Engineered strength for continuous comfort.



Doğal ışığı iç mekâna taşıyın.

Maximize natural daylight indoors

Yağmur Suyu Drenajı

RAINWATER DRAINAGE

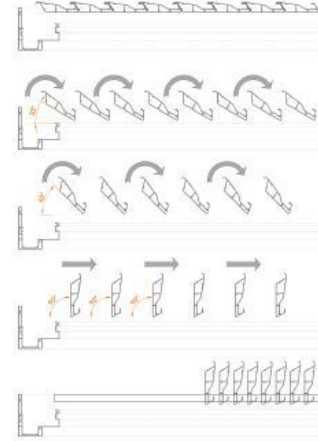


- 1 Yağmur suyu, paneller üzerine düşer.
Rainwater falls onto the panels
- 2 Paneller eğimli tasarımı sayesinde suyu gizli oluğa yönlendirir.
The inclined panel design channels rainwater into the concealed gutter
- 3 Sular, entegre gizli oluk kanalında toplanır.
Rainwater is collected in the concealed gutter channel
- 4 Su, gizli drenaj kanalı ile kolonun içine alınır ve zemine yönlendirilir.
Rainwater is directed into the column and discharged to the ground
- 5 Su, kolon tabanındaki çıkış noktasından güvenli şekilde tahliye edilir.
Rainwater is safely discharged through the drainage outlet

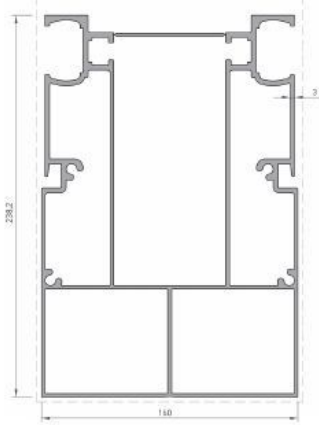
Eksen hareketleri / Axis movements

Paneller 30°, 45° ve 90° açılır; 90° konumda paneller ray boyunca kayarak toplanır.

Panels rotate to 30°, 45° and 90°; at 90° they slide along the rail and stack.



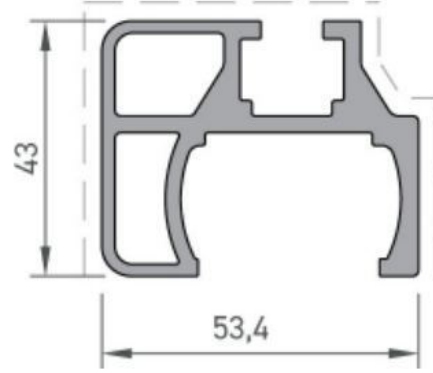
Eksen hareketleri / Axis movements



9557
Ray Profili
Rail Profile

160 x 238,2 mm, et kalınlığı 3 mm | $I_x 2187,12 \text{ cm}^4$ · $I_y 1269,31 \text{ cm}^4$

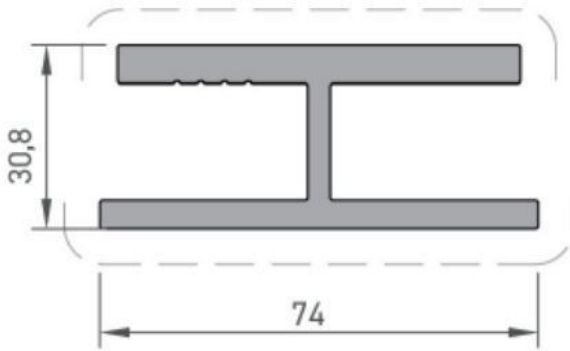
10,339
kg/m



9558
C Kanal Profili
C Channel Profile

53,4 x 43 mm | $I_x 9,17 \text{ cm}^4$ · $I_y 20,65 \text{ cm}^4$

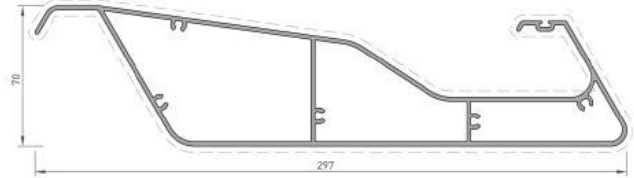
1,719
kg/m



9555
H Profili
H Profile

74 x 30,8 mm | $I_x 12,88 \text{ cm}^4$ · $I_y 32,89 \text{ cm}^4$

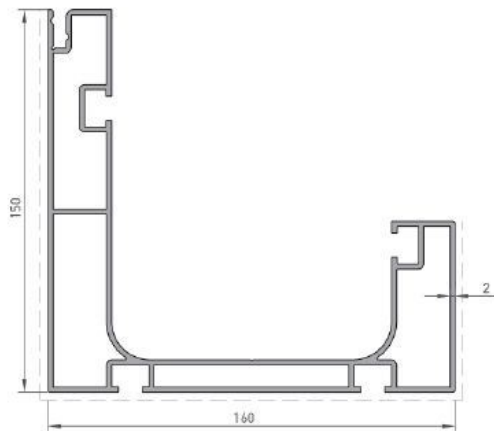
2,342
kg/m



9556
Panel Profili
Panel Profile

297 x 70 mm | $I_x 83,89 \text{ cm}^4$ · $I_y 1222,57 \text{ cm}^4$

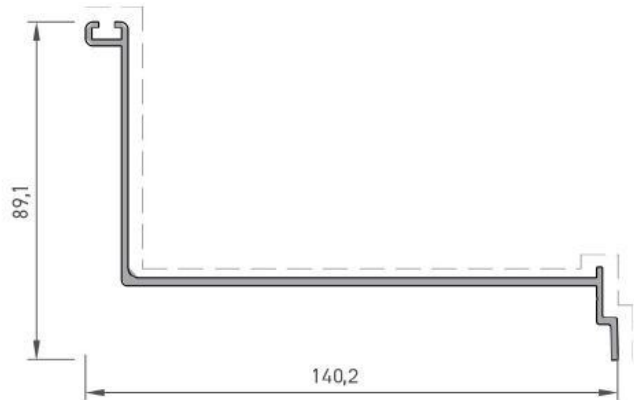
4,625
kg/m



9548
Oluk Profili
Gutter Profile

160 x 150 mm, et kalınlığı 2 mm | $I_x 229,05 \text{ cm}^4$ · $I_y 672,15 \text{ cm}^4$

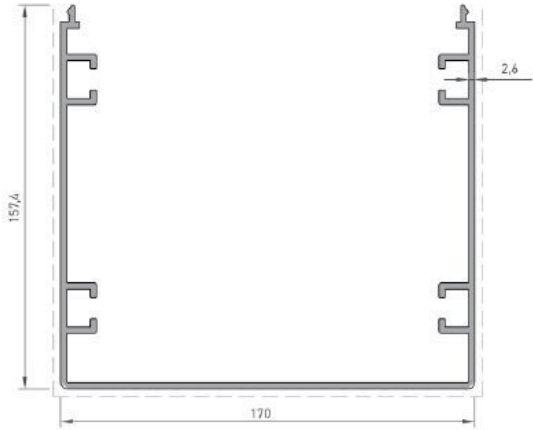
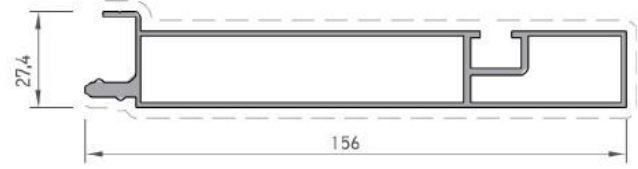
4,450
kg/m



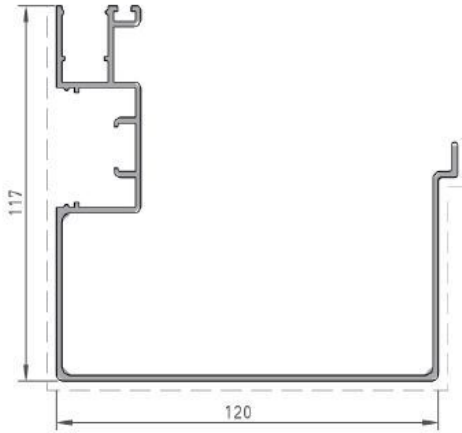
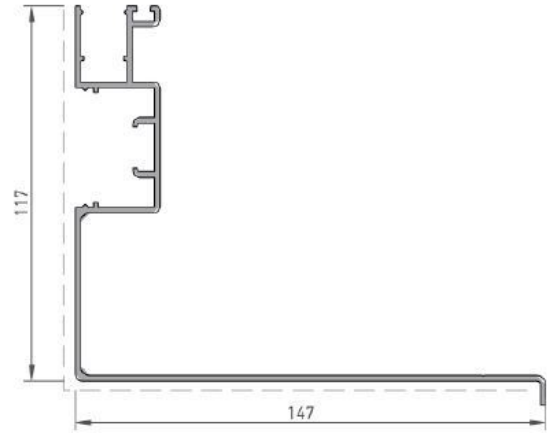
9554
Motor Kapak Profili
Motor Cover Profile

140,2 x 89,1 mm | $I_x 11,85 \text{ cm}^4$ · $I_y 111,0 \text{ cm}^4$

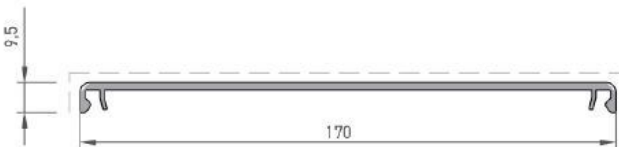
1,177
kg/m

**9549****Dikme Profili**
Column Profile170 x 157,4 mm, et kalınlığı 2,6 mm | $I_x 446.31 \text{ cm}^4$ · $I_y 862.72 \text{ cm}^4$ **4,305**
kg/m**9547****Oluk Eki Profili**

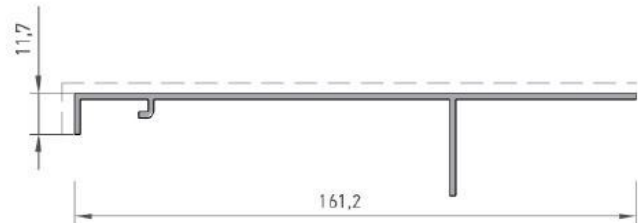
Gutter Attachment Profile

156 x 27,4 mm | $I_x 5.36 \text{ cm}^4$ · $I_y 154.76 \text{ cm}^4$ **1,748**
kg/m**9552****Ray Oluğu Profili**
Rail Gutter Profile120 x 117 mm | $I_x 81.32 \text{ cm}^4$ · $I_y 182.74 \text{ cm}^4$ **1,965**
kg/m**9553****Oluk Led Eki Profili**

Gutter Led Attachment Profile

147 x 117 mm | $I_x 51.31 \text{ cm}^4$ · $I_y 185.31 \text{ cm}^4$ **1,751**
kg/m**9550****Dikme Kapak Profili**
Column Cover Profile

170 x 9,5 mm

1,182
kg/m**9551****Ray Eki Profili**

Rail Attachment Profile

161,2 x 11,7 mm

0,952
kg/m

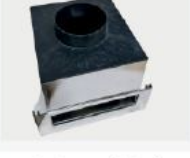
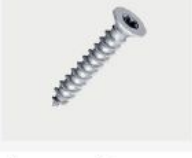
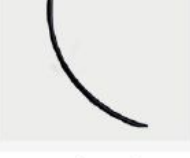
Sistem Aksesuarları

SYSTEM ACCESSORIES

Oluk Yan Kapak Lazeri Gutter Side Cover Laser-cut Plate	Ray Ön Sabitleme Lazeri Rail Front Fixing Laser-cut Plate	Ray Arka Sabitleme Lazeri Rail Rear Fixing Laser-cut Plate	Triger Ön Gerdirm Laması Timing Belt Front Tensioning Bar	Triger Arka Sabitleme Timing Belt Rear Fixing	En Arka Sabit Panel Lazeri Rearmost Fixed Panel Laser-cut Plate
Kare Motor Boru Lazeri Square Motor Tube Laser-cut Plate	Yuvarlak Motor Boru Lazeri Round Motor Tube Laser-cut Plate	Ayak Üst & Alt Lazeri Post Top & Bottom Laser-cut Plate	Ayak Orta Lazeri Post Middle Laser-cut Plate	Lineer Piston Lazeri Linear Actuator Laser-cut Bracket	Pistonlu Bioklimatik Panel Yan Lastiği Actuator-type Bioclimatic Panel Side Gasket
Ray Makas Lazeri Rail Scissor Laser-cut Link	Çelik Halat Steel Cable	Çelik Halat Yüzüğü Steel Cable Ring	M6X12 A2 Setkur M6x12 A2 Set Screw	Krom Teker Mili Chrome Wheel Shaft	608 ZZ Rulmanlı Teker 608 ZZ Bearing Wheel
6X12Hb İnbus Vida (Teker Vidası) 6x12 Hb Allen Screw (Wheel Screw)	Triger Makarası Timing Belt Pulley	Rulman Bearing	Boru Başı Tube End Cap	Boru Triger Dişlisi Tube Timing Gear	Boru Triger Dişlisi Kenar Tube Timing Gear Edge Ring
İzoleli LED Insulated LED Strip	LED Kapağı Üst LED Cover Top	LED Kapağı Kenar LED Cover Edge	M8 Fiberli Somun M8 Nylon Lock Nut	M10 Kare Kaynak Somunu M10 Square Weld Nut	M10X35 A2 Civata M10x35 A2 Bolt
2 mm A2 Pul 2 mm A2 Washer	M8 Kare Kaynak Somunu M8 Square Weld Nut	M8X16 İnbus M8x16 Allen Screw	Oluk Fitili Gutter Gasket	Panel Fitili Panel Gasket	M10 Fiberli Somun M10 Nylon Lock Nut

Sistem Aksesuarları

SYSTEM ACCESSORIES

 Lineer Piston Linear Actuator	 Lineer Piston Otomatı Linear Actuator Automat (Limit Unit)	 Pistonlu Bioklimatik Kontrol Paneli Actuator-type Bioclimatic Control Panel	 T10X16 Triger Kayış T10x16 Timing Belt	 Triger Tutucu Timing Belt Holder	 Triger Ön Gerdirici Aparatı Timing Belt Front Tensioner
 5X30 Sunta Vidası 5x30 Chipboard Screw	 LED Kablo Birleştirici Silikonlu Plastik LED Cable Connector, Silicone Plastic	 LED Kapağı Birleştirme LED Cover Joint	 8X70 Civata 8x70 Bolt	 10X50 Civata 10x50 Bolt	 Duvar Aparatı Wall Bracket
 Ayak Üst Su Gideri Post Top Water Drain	 Ayak Alt Su Gideri Post Bottom Water Drain	 Ray Ön Plastiği Rail Front Plastic	 Pimapen Vidası PVC Window Screw	 Ray ve Piston Ekstra Kablosu Rail and Actuator Extension Cable	 Mm 10X20 HB İnbus Civata 10x20 mm HB Allen Bolt
 Panel Orta Teker Panel Middle Wheel	 Piston Lazer Vidası Actuator Bracket Screw	 Oluk Eki Lazeri Gutter Attachment Laser-cut Corner Plate	 3X9X16 Akıllı Vida Pul Başlı 3x9x16 Self-drilling Screw, Washer Head	 3X9X16 Akıllı Vida Şapkasız 3x9x16 Self-drilling Screw, Countersunk	 Makaslı Bioklimatik Kontrol Paneli Scissor-type Bioclimatic Control Panel
 Kısa Mafsal Short Hinge Link	 Uzun Mafsal Long Hinge Link	 Makaslı Bioklimatik Panel Yan Lastiği Scissor-type Bioclimatic Panel Side Gasket			

Motor ve Kumanda Seçenekleri

MOTOR & REMOTE CONTROL OPTIONS



Somfy tüp motor - TAIRUS / Bio / RTS · 120 Nm



Cuppon tüp motor · 120 Nm



Mosel tüp motor · R120 / Elektronik 120 Nm



Somfy RTS kumanda · 1 / 5 / 16 kanal (dijital)



Mosel kumanda · 1 / 5 / 9 / 16 kanal (dijital)



Cuppon kumanda · 16 kanal dijital



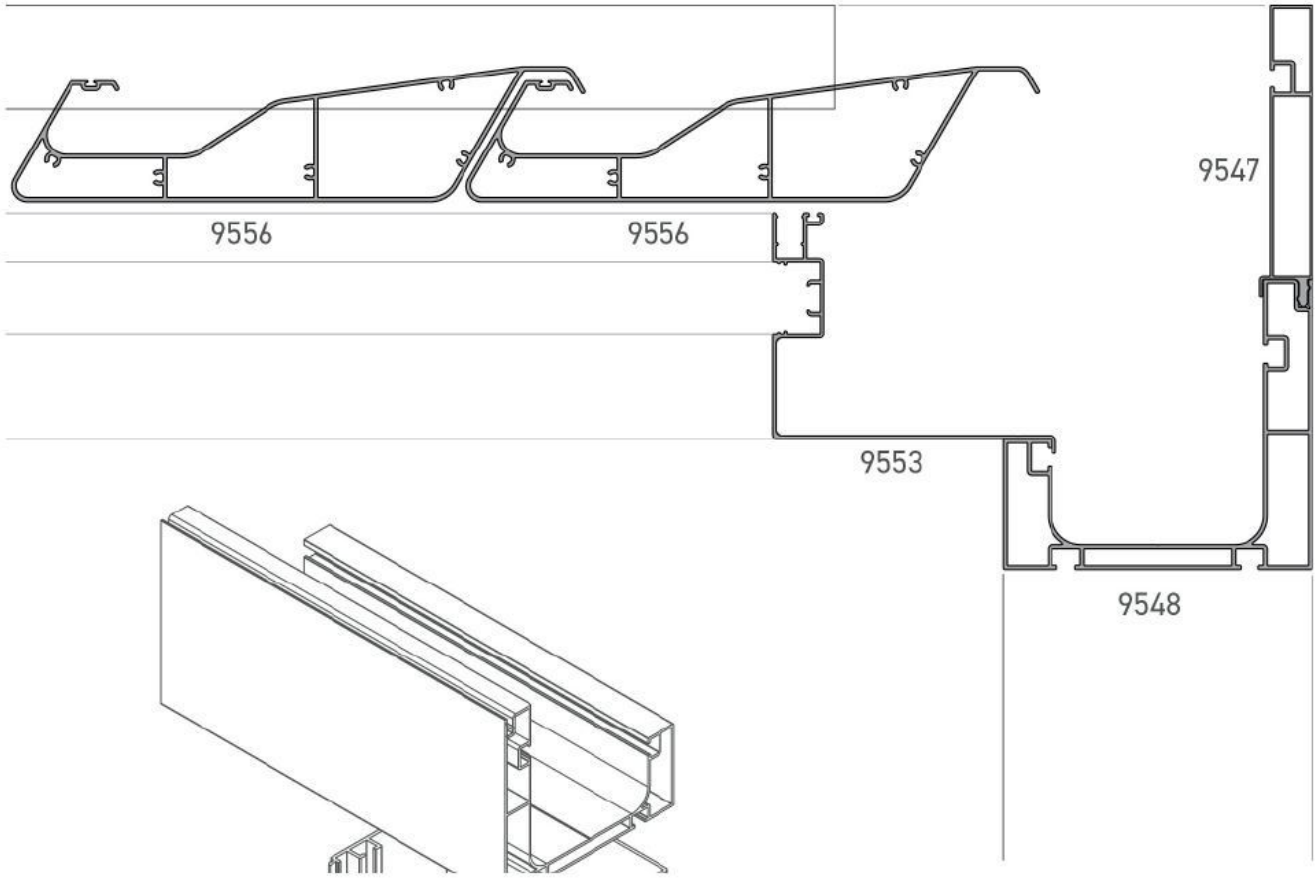
Linear piston / Linear actuator

Linear Piston Teknik Özellikleri / Linear Actuator Specifications

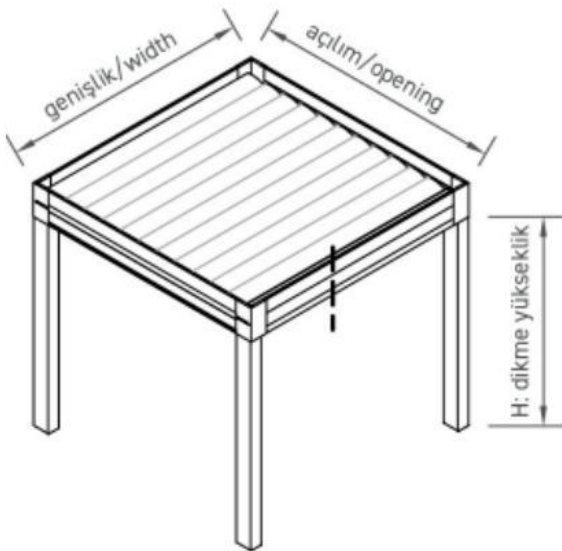
IP Sınıfı	Max. IP68
Limit Anahtarı	Built-in (electrical)
Ağırlık	1.413Kg
Onay	IEC60601-1:2012; EN60601-1:2006+A12:2014; ANSI/AAMI ES60601-1:2005(R)2012 and A1:2012; C1:2009/(R)2012 and A2:2010/(R)2012
Görev Döngüsü	10%max.2min.continuous
Çalışma Sıcaklığı	+5 °C to 50 °C
Rezerv Sıcaklık	-10°C to 50°C
Destekleyici Kontrol Kutusu	BIBUS kontrol kutusuyla uyumlu

Sistem Detayları – Köşe Birleşimi

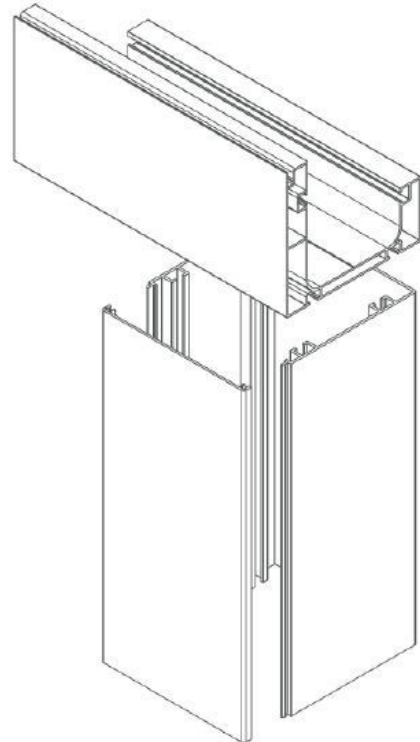
SYSTEM DETAILS – CORNER JOINT



1 Sistem kesiti – 9556 panel, 9553 oluk LED eki, 9547 oluk eki



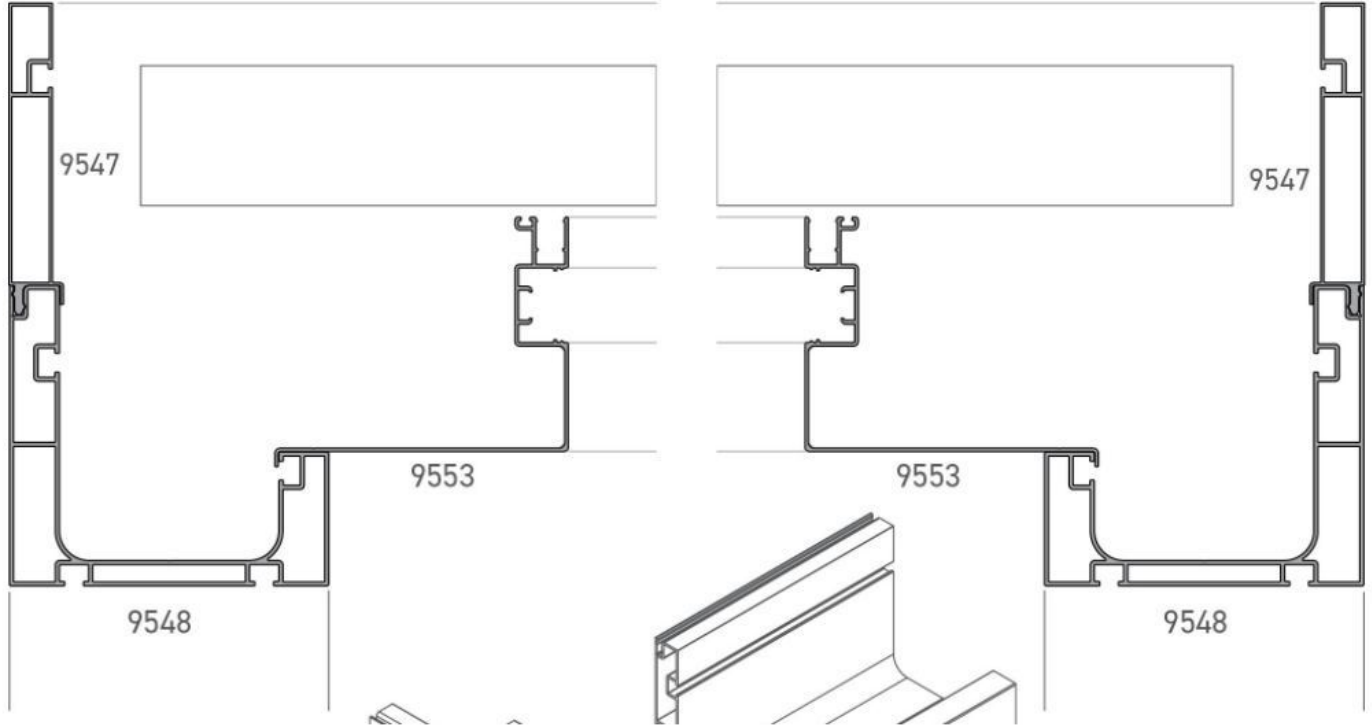
2 Genişlik / açılım / dikme yüksekliği



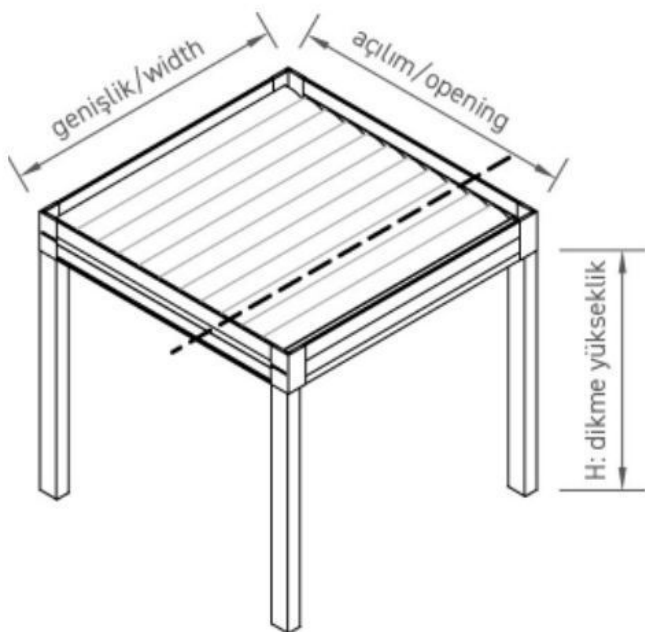
3 Dikme – oluk köşe birleşimi 3D

Sistem Detayları – Orta Dikme

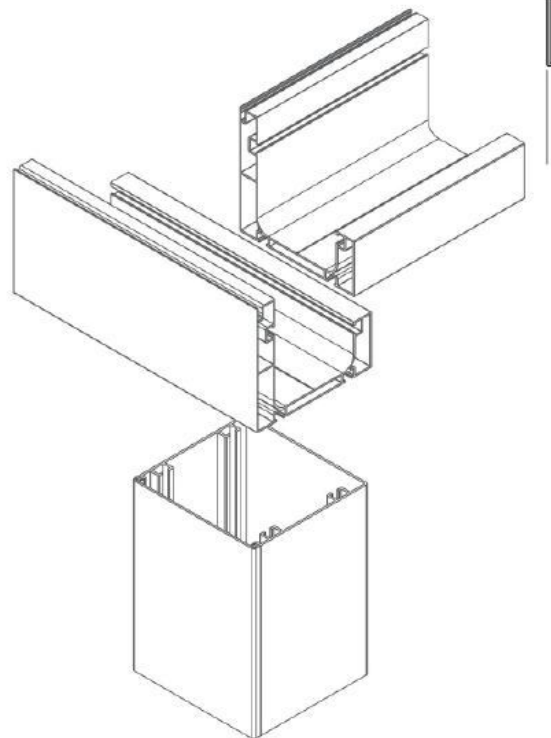
SYSTEM DETAILS – INTERMEDIATE COLUMN



1 Çift oluk kesiti – 9547 / 9553 / 9548



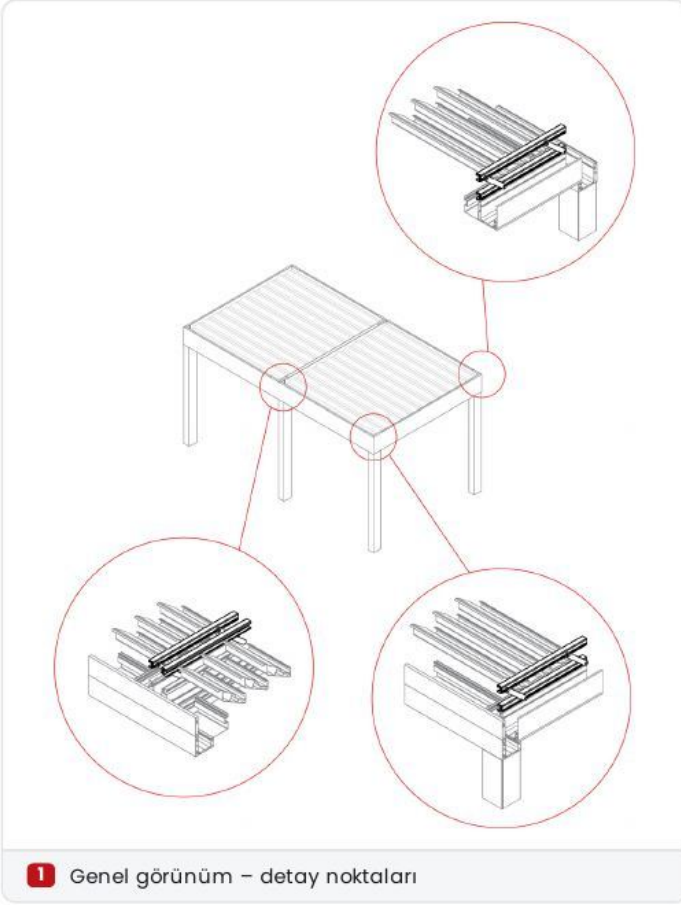
2 Genişlik / açılım / dikme yüksekliği



3 Orta dikme – çift oluk birleşimi 3D

Sistem Detayları – 3D Birleşim Detayları

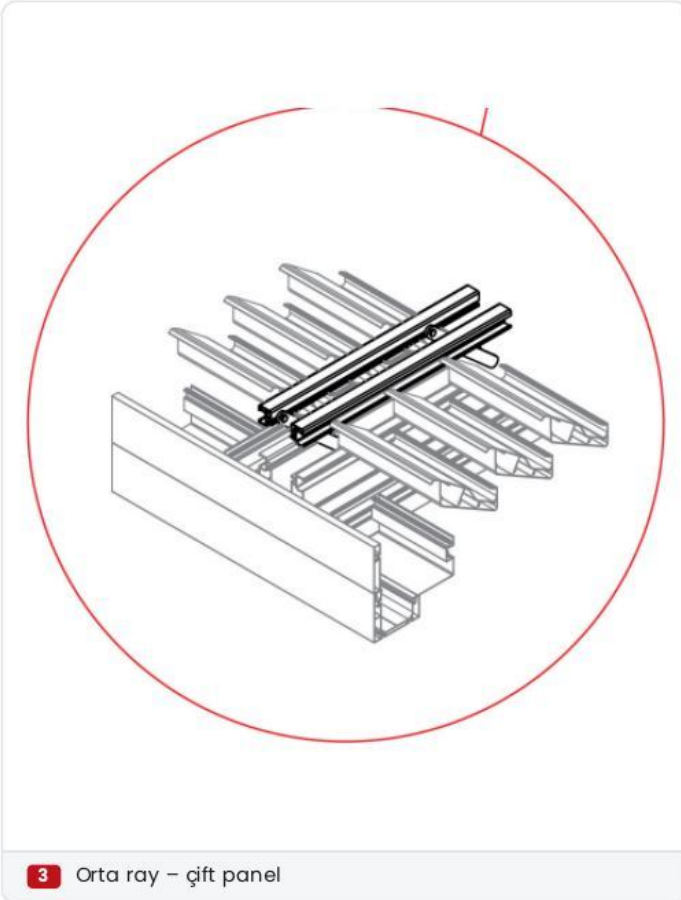
SYSTEM DETAILS – 3D JOINT DETAILS



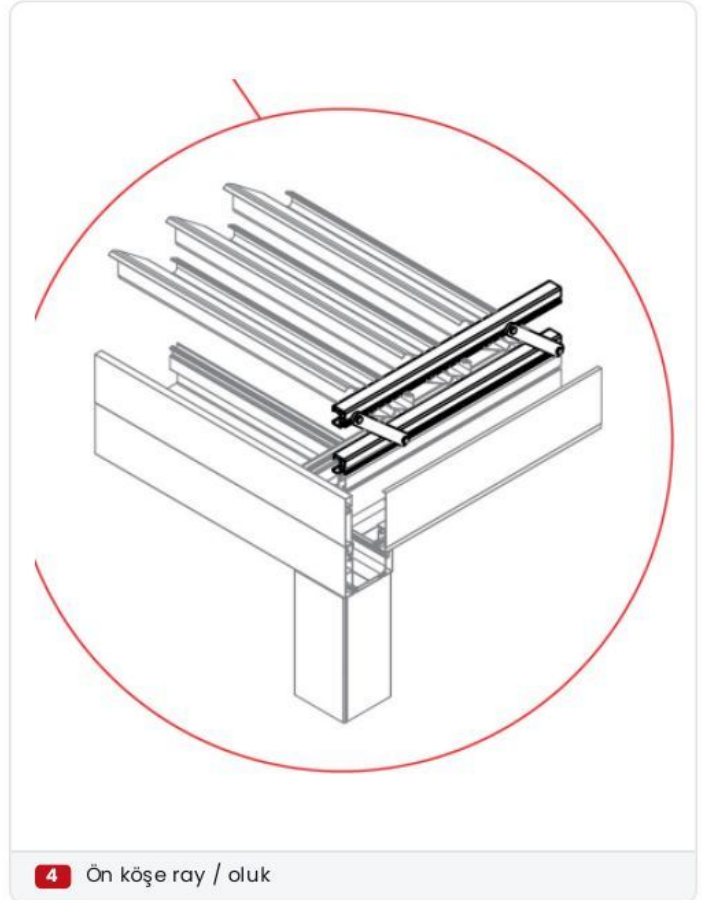
1 Genel görünüm – detay noktaları



2 Köşe ray / panel birleşimi



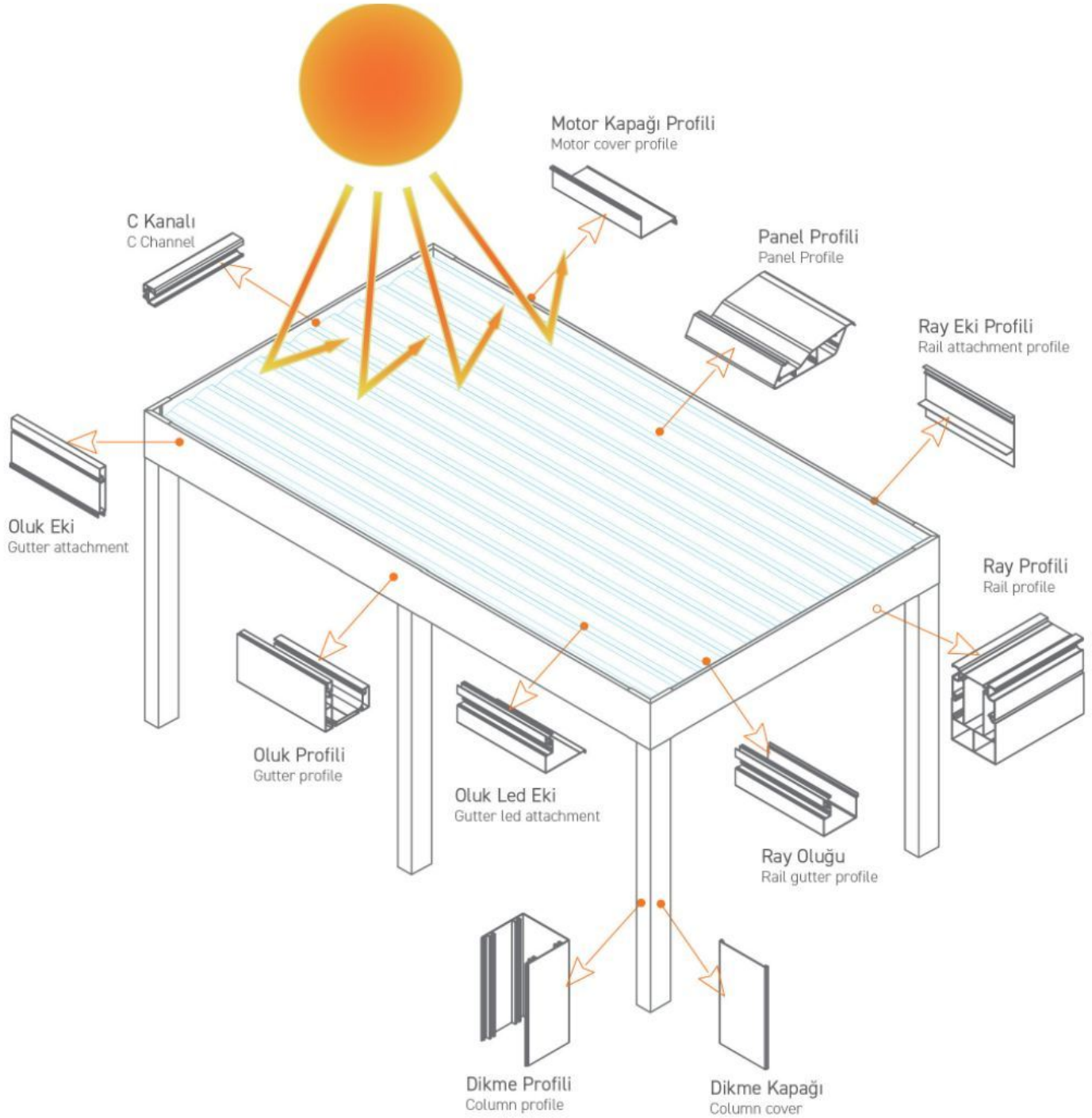
3 Orta ray – çift panel



4 Ön köşe ray / oluk

Patlatılmış Görünüm – Profil Yerleşimi

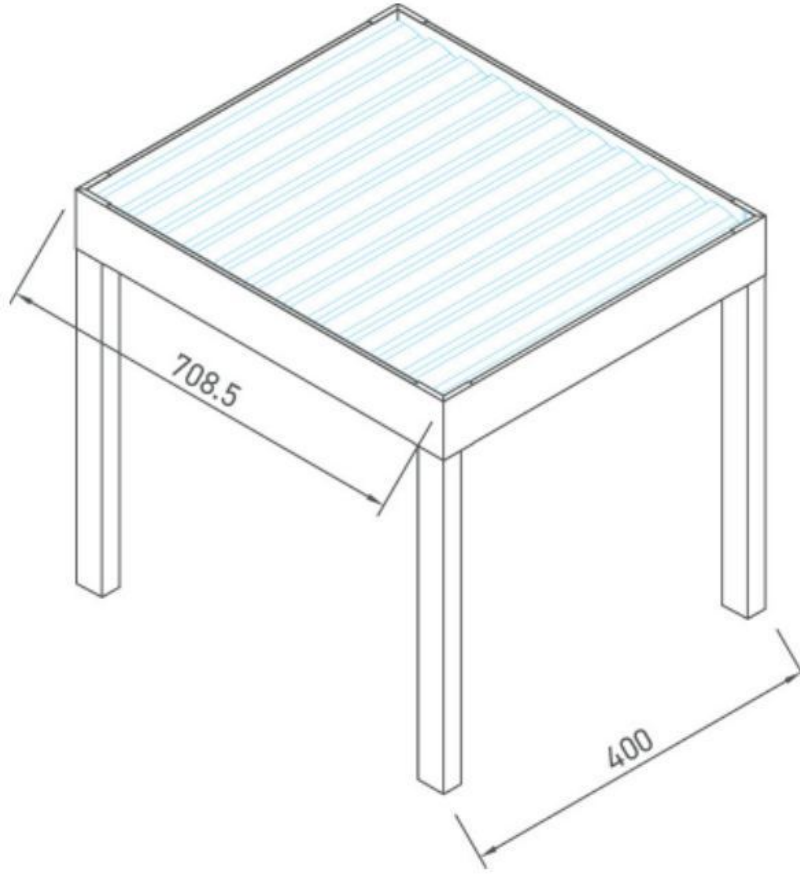
EXPLODED VIEW – PROFILE LAYOUT



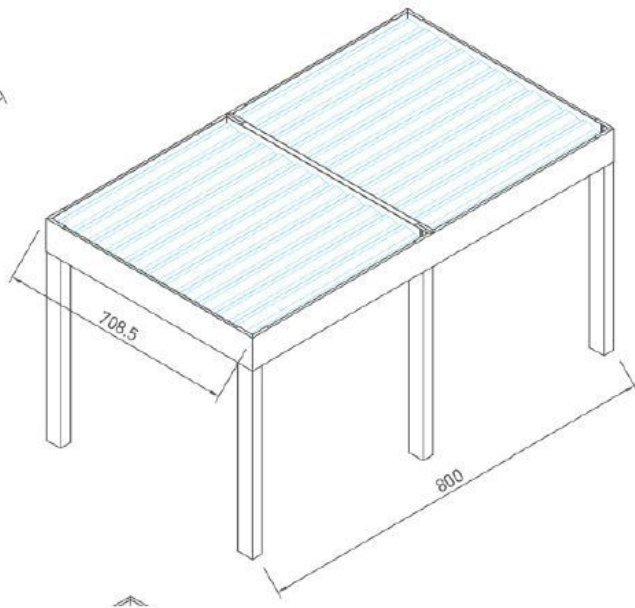
1 Sistem profilleri ve montaj yerleri / System profiles and assembly positions

Sistem Konfigürasyonları

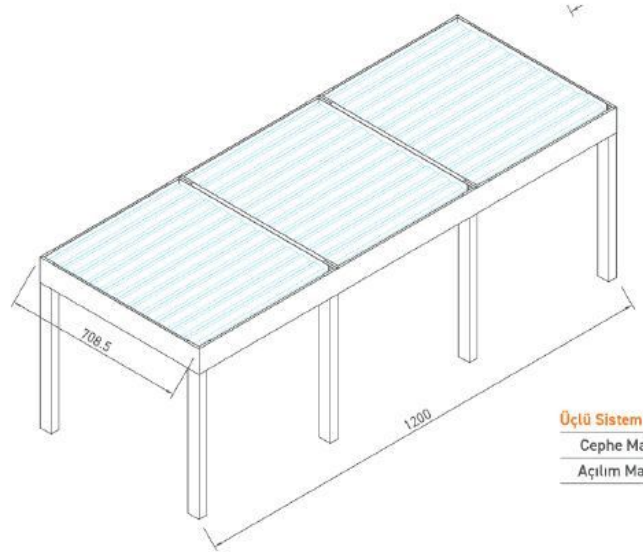
SYSTEM CONFIGURATIONS – MAXIMUM SIZES



1 Tekli Sistem / Single System – Cephe maks. 400 cm · Ağırlım maks. 708.5 cm



2 İkili Sistem / Binary System – Cephe maks. 800 cm · Ağırlım maks. 708.5 cm

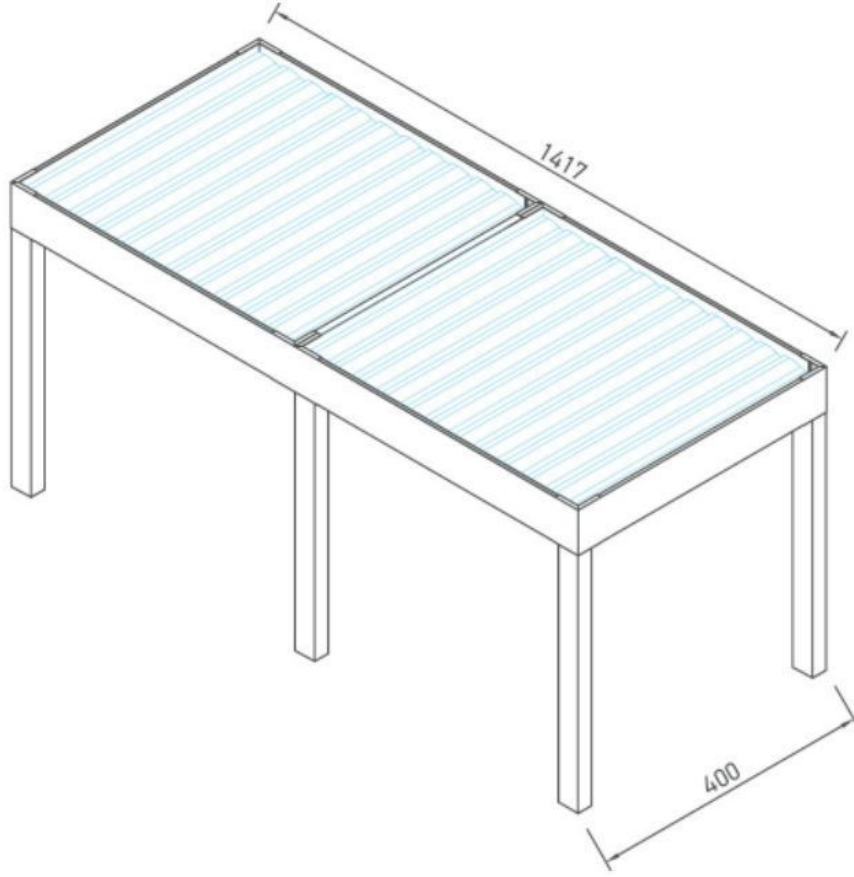


Üçlü Sistem /
Cephe Ma:
Ağırlım Ma:

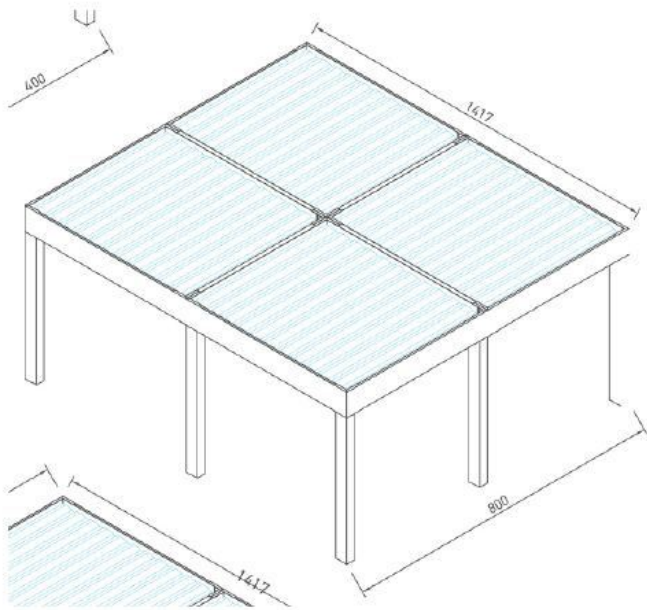
3 Üçlü Sistem / Triple System – Cephe maks. 1200 cm · Ağırlım maks. 708.5 cm

Sistem Konfigürasyonları

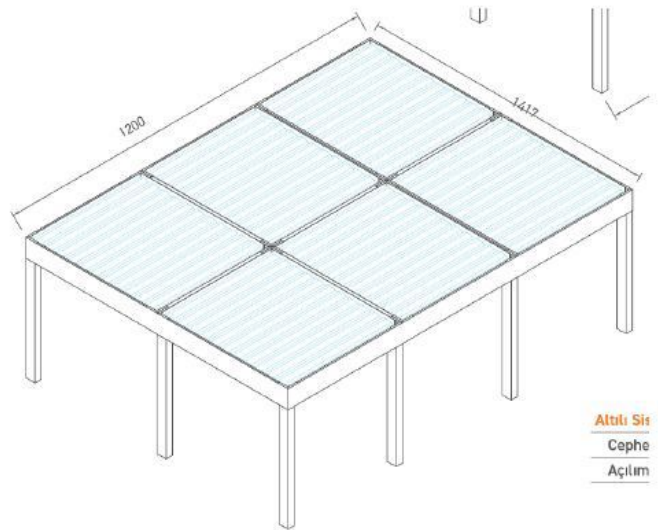
SYSTEM CONFIGURATIONS – MAXIMUM SIZES



1 İkili Sistem / Binary System — Cephe maks. 400 cm · Ağırlık maks. 1417 cm



2 Dörtlü Sistem / Quadruple System — Cephe maks. 800 cm · Ağırlık maks. 1417 cm

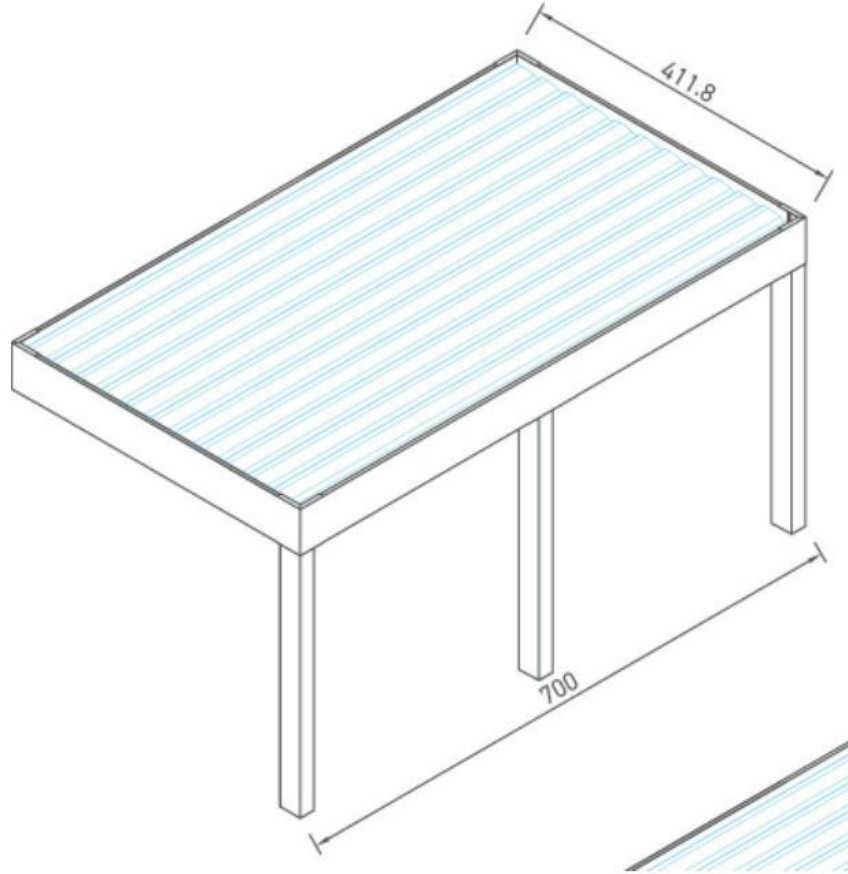


Altılı Sis
Cephe
Ağırlık

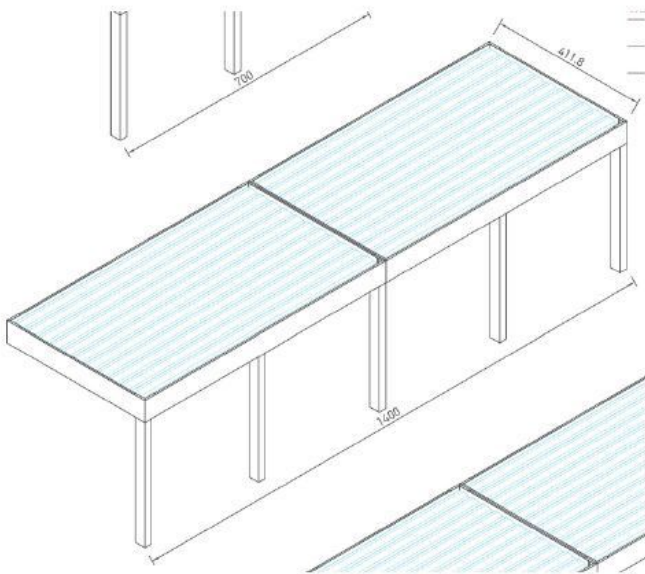
3 Altılı Sistem / Six System — Cephe maks. 1200 cm · Ağırlık maks. 1417 cm

Sistem Konfigürasyonları

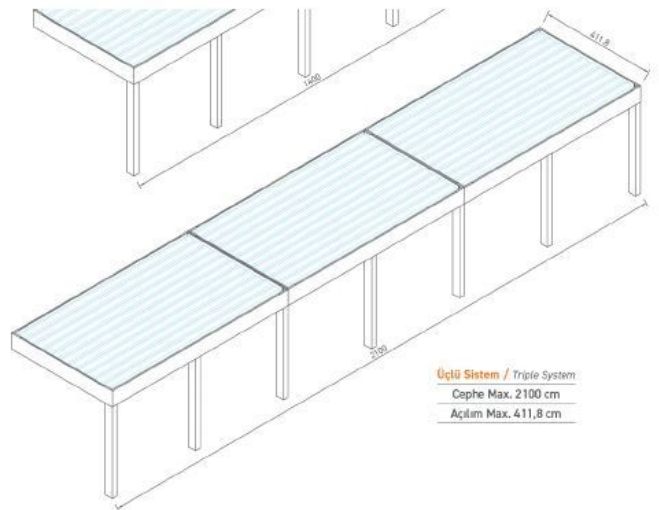
SYSTEM CONFIGURATIONS – MAXIMUM SIZES



1 Tekli Sistem / Single System – Cephe maks. 700 cm · Açılım maks. 411.8 cm



2 İkili Sistem / Binary System – Cephe maks. 1400 cm · Açılım maks. 411.8 cm



Üçlü Sistem / Triple System
Cephe Max. 2100 cm
Açılım Max. 411.8 cm

3 Üçlü Sistem / Triple System – Cephe maks. 2100 cm · Açılım maks. 411.8 cm

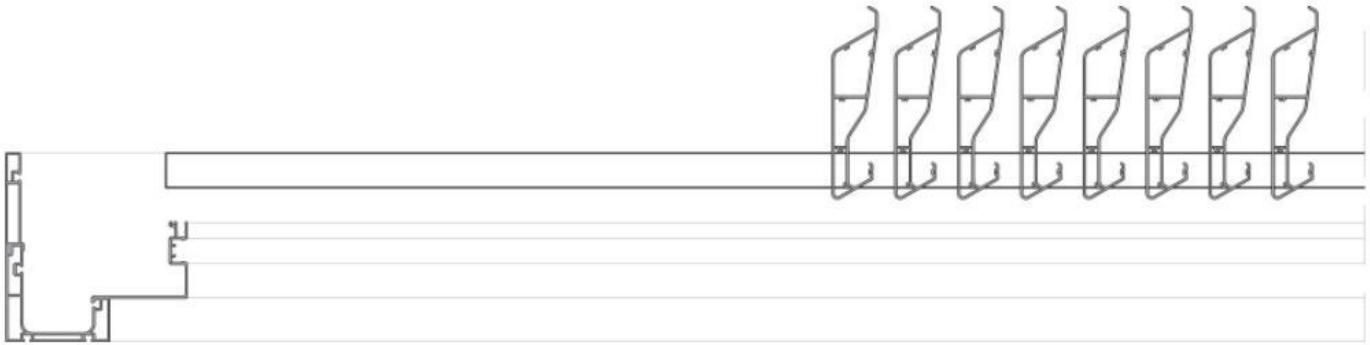
Ön Açılım Ölçüsü ve Panel Sayısı

FRONT OPENING DIMENSION AND NUMBER OF PANELS

Panel Sayısı / Panels	Ön Açılım / Opening (mm)
5 PANEL	1.500 mm
6 PANEL	1.738 mm
7 PANEL	1.976 mm
8 PANEL	2.214 mm
9 PANEL	2.452 mm
10 PANEL	2.690 mm
11 PANEL	2.928 mm
12 PANEL	3.166 mm
13 PANEL	3.404 mm

Panel Sayısı / Panels	Ön Açılım / Opening (mm)
14 PANEL	3.642 mm
15 PANEL	3.880 mm
16 PANEL	4.118 mm
17 PANEL	4.356 mm
18 PANEL	4.594 mm
19 PANEL	4.775 mm
20 PANEL	5.010 mm
21 PANEL	5.245 mm

Panel adımı nominal 238 mm'dir. Ara ölçüler için teknik ekibimizle görüşünüz. Nominal panel pitch is 238 mm; please consult our technical team for intermediate dimensions.



Panel hareket dizisi / Panel movement sequence



SİSTEM / SYSTEM

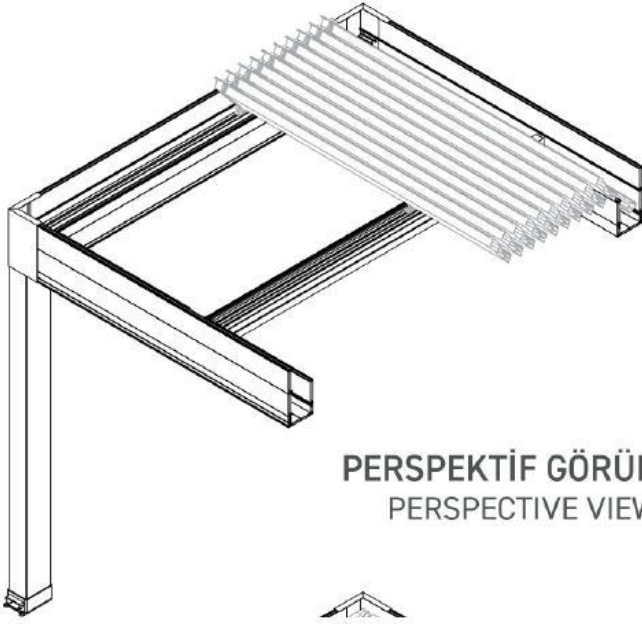
Skylis

BİOKLİMATİK SİSTEM / BIOCLIMATIC SYSTEM

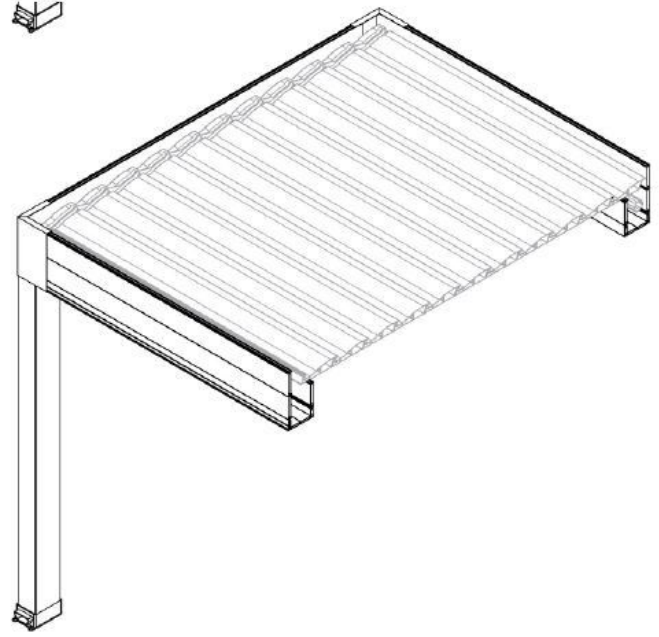
Raylı dere profili üzerinde makaslı mekanizma ile açılan, 205 mm dere ve 140 mm dikme kesitli, LED kanallı bioklimatik pergola sistemi. Kapalı konumda su geçirmez çatı, açık konumda tam havalandırma sağlar.

Perspektif ve Kesit Görünüşler

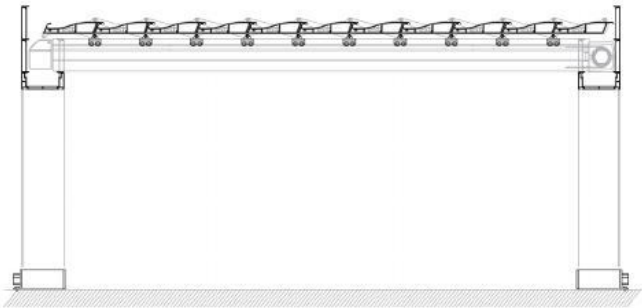
PERSPECTIVE & SECTION VIEWS



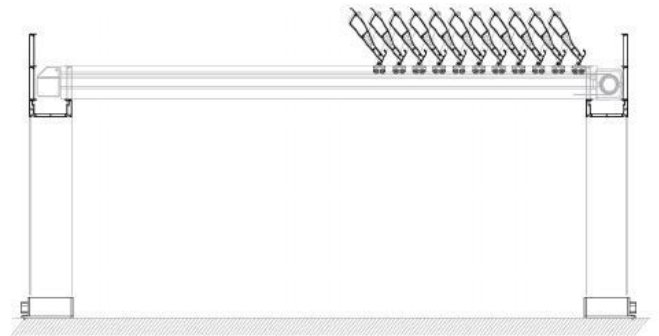
1 Perspektif görünüş – paneller açık



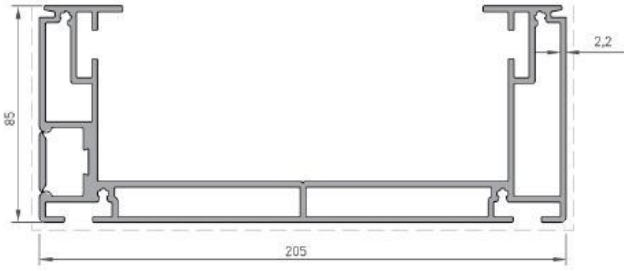
2 Perspektif görünüş – paneller kapalı



3 Kesit görünüş – paneller kapalı



4 Kesit görünüş – paneller açık / toplanmış



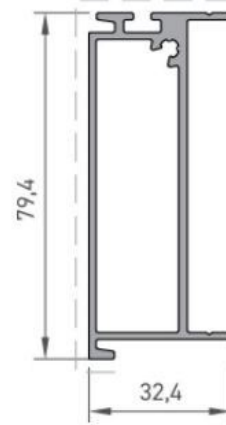
BC101

Dere Profili

Gutter Profile

205 x 85 mm, wall 2,2 mm | $I_x 1172.01 \text{ cm}^4 \cdot I_y 1172.01 \text{ cm}^4$

5,396
kg/m



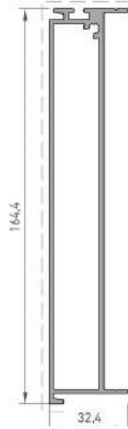
BC102

Dere Küçük Profili

Add-On Profile

32,4 x 79,4 mm | $I_x 31.89 \text{ cm}^4 \cdot I_y 3.96 \text{ cm}^4$

1,150
kg/m



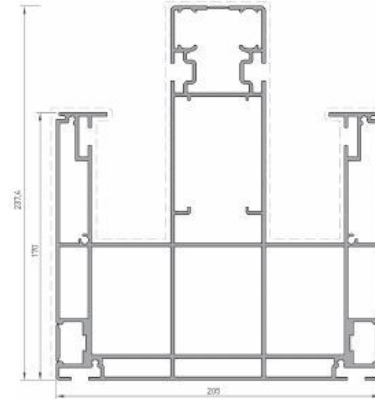
BC103

Dere Büyük Ek Profili

Add-On Profile

32,4 x 164,4 mm | $I_x 215.58 \text{ cm}^4 \cdot I_y 7.21 \text{ cm}^4$

1,980
kg/m



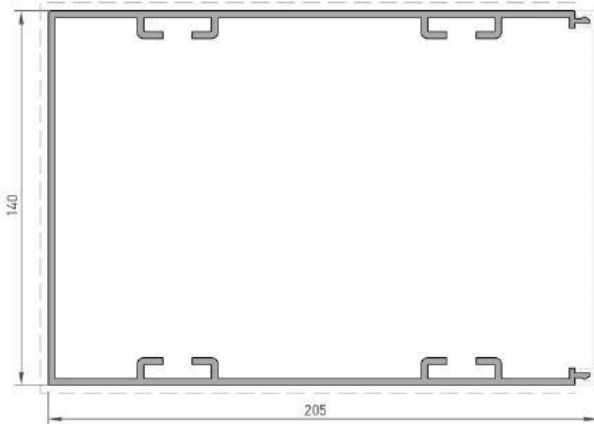
BC104

Raylı Dere Profili

Rail Gutter Profile

205 x 237,4 mm (main body 170 mm high) | $I_x 2274.13 \text{ cm}^4 \cdot I_y 2128.44 \text{ cm}^4$

12,825
kg/m



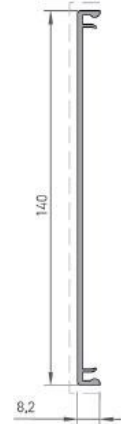
BC105

Dikme Profili

Column Profile

205 x 140 mm | $I_x 644.4 \text{ cm}^4 \cdot I_y 707.54 \text{ cm}^4$

4,461
kg/m



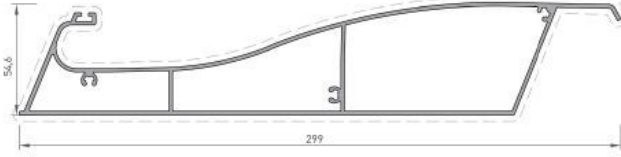
BC106

Dikme Kapak Profili

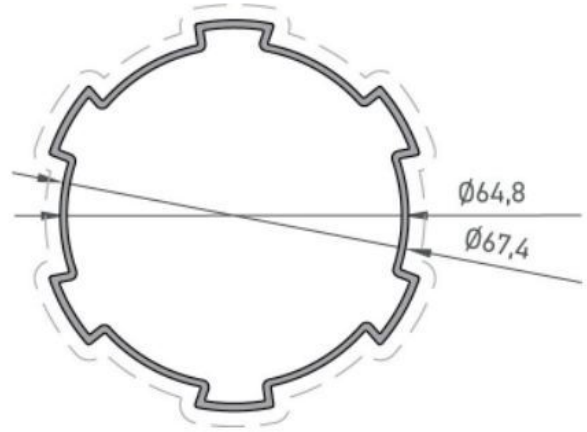
Column Cover Profile

140 x 8,2 mm

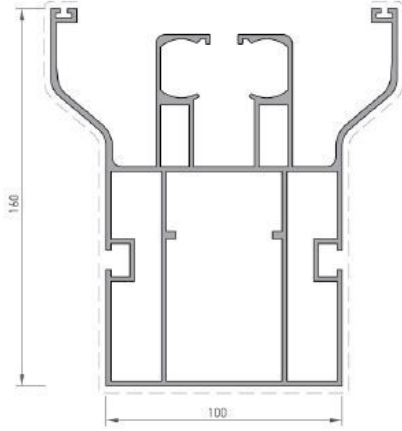
0,830
kg/m

**BC107****Panel Profili**

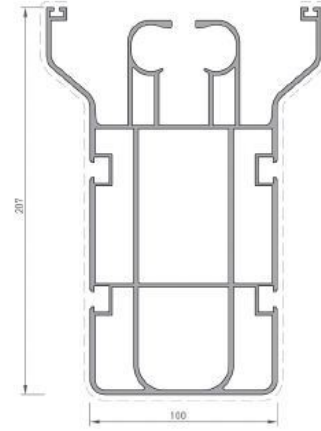
Panel Profile

299 x 54,6 mm | Ix 50.9 cm⁴ · Iy 1069.03 cm⁴**3,906**
kg/m**BC108****Motor Boru Profili**

Motor Tube Profile

Ø64,8 / Ø67,4 mm | Ix 22.32 cm⁴ · Iy 22.32 cm⁴**0,995**
kg/m**BC109****160'lık Ray Profili**

160 Rail Profile

100 x 160 mm | Ix 508.44 cm⁴ · Iy 373.58 cm⁴**6,082**
kg/m**BC110****200'lük Ray Profili**

200 Rail Profile

100 x 207 mm | Ix 1260.41 cm⁴ · Iy 470.25 cm⁴**8,426**
kg/m

Sistem Aksesuarları

SYSTEM ACCESSORIES



Büyük Araba
Large Camage



Büyük Araba
Large Camage (alt. view)



Motor Bağlantı Flanşı
Motor Connection Flange



Panel Kapak
Panel Cap



Ray Arka Takımı
Rail Rear Set



Ray Ön Takımı
Rail Front Set



Dikme Orta Bağlantı
Column Middle Connector



Dere Bağlantı
Gutter Connector



Raylı Dere Bağlantı
Rail Gutter Connector



Köşe Kapak
Corner Cap



Zemin Bağlantı
Floor Connector



Büyük Makas
Large Link Arm



Küçük Makas
Small Link Arm



M8 Somunlu Vida
M8 Bolt with Nut



Triger Kayış
Timing Belt



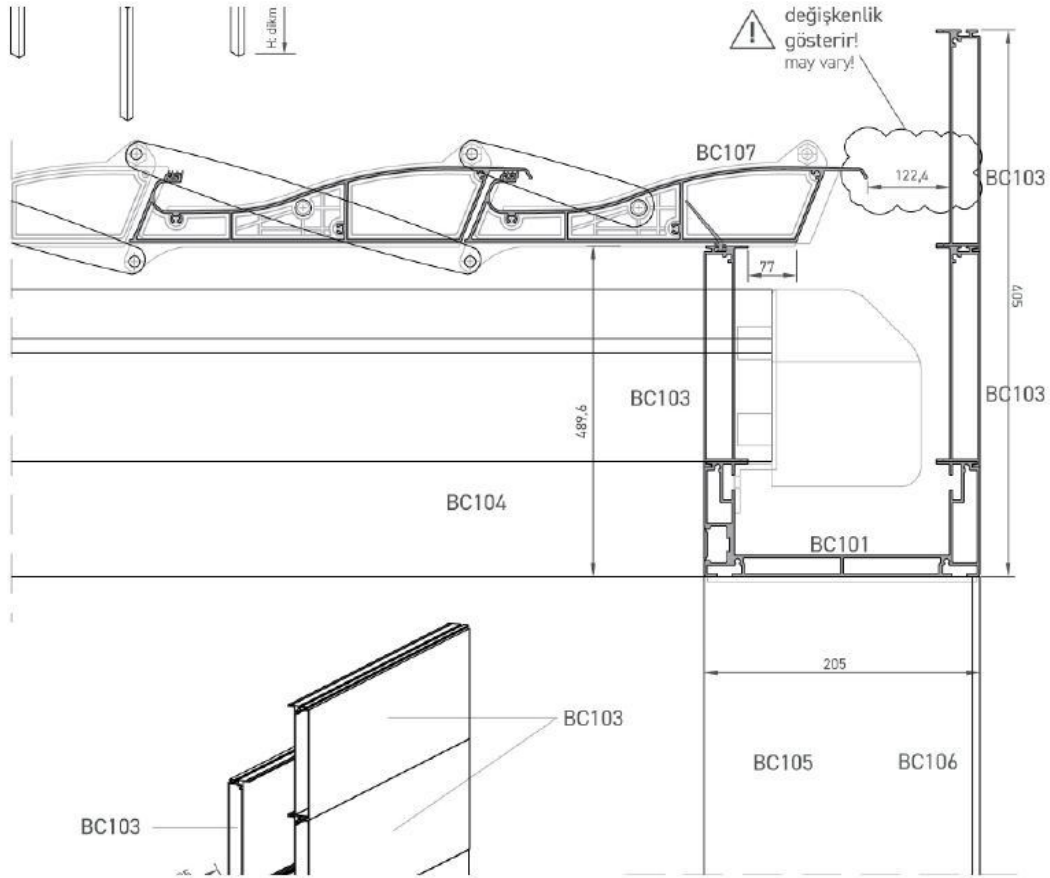
BC21
BC21 (gasket)



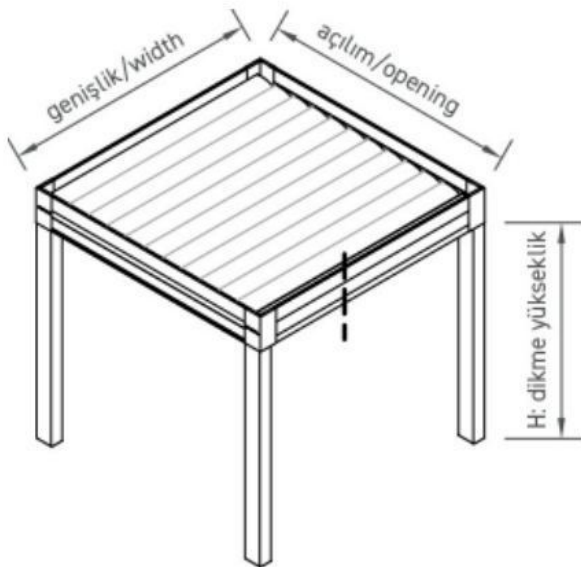
BC20
BC20 (gasket)

Sistem Detayları – Dere / Panel

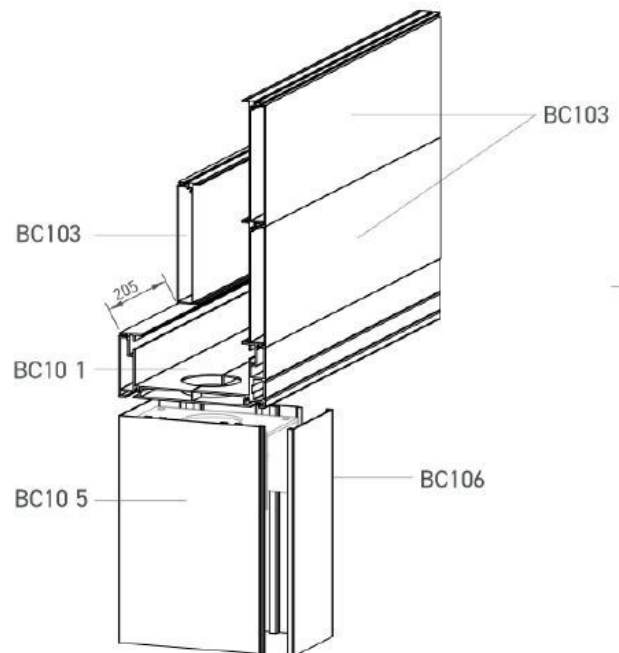
SYSTEM DETAILS – GUTTER / PANEL



1 Kesit – dere ve panel (BC107, BC103, BC104, BC101)



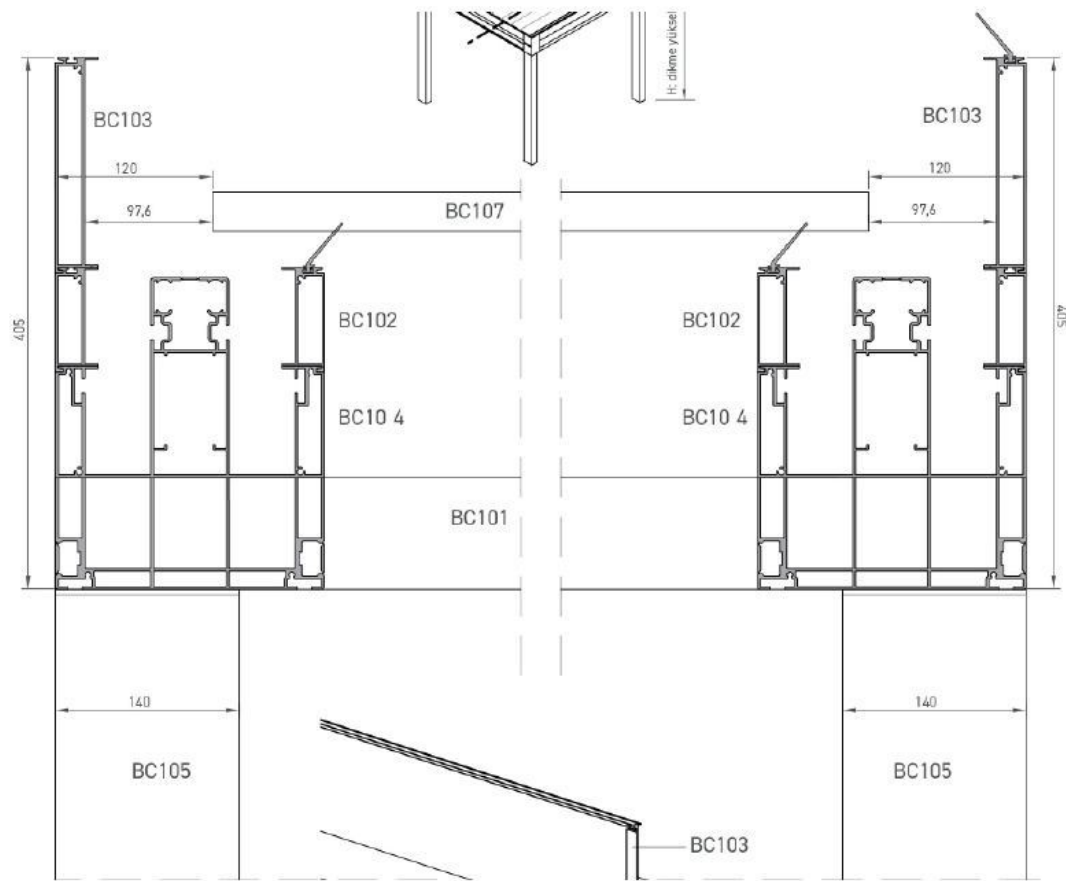
2 Genişlik / açılım / H: dikme yüksekliği



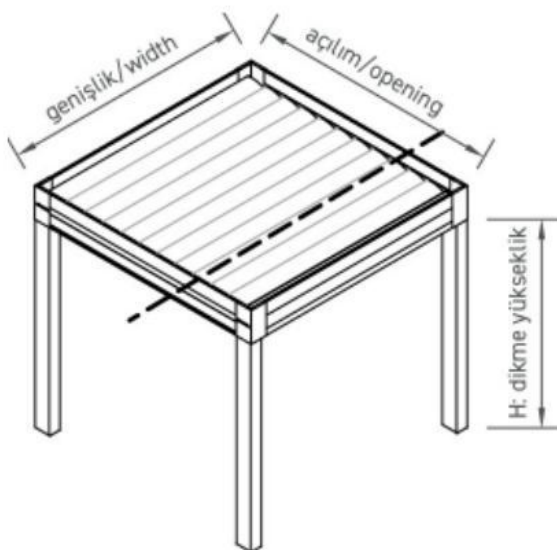
3 İzometrik – dere / dikme köşesi

Sistem Detayları – Çift Dere

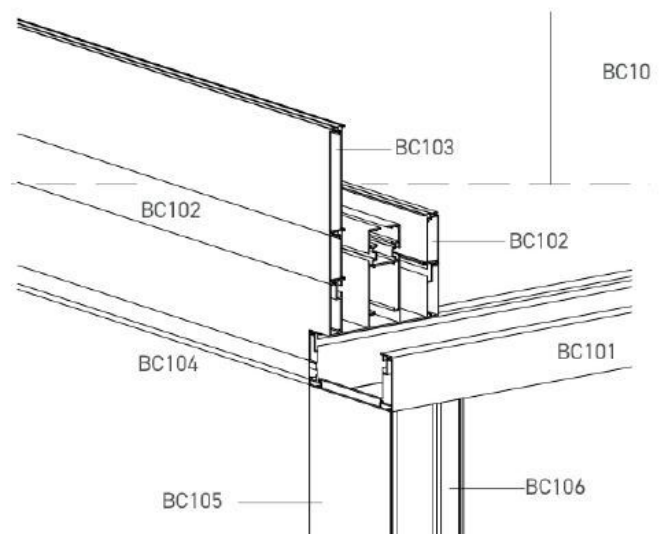
SYSTEM DETAILS - DOUBLE GUTTER



1 Kesit – paneller boyunca iki dere



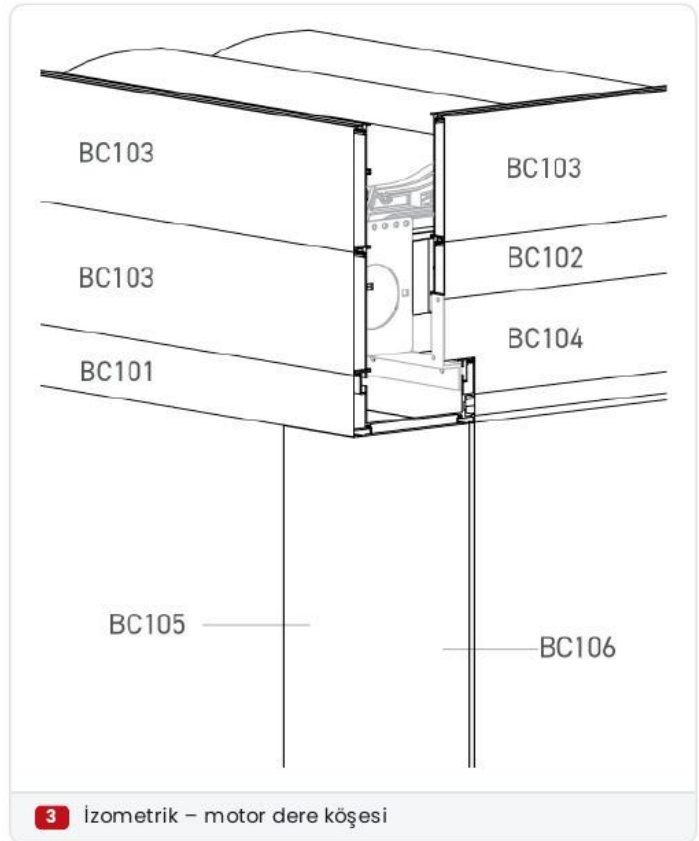
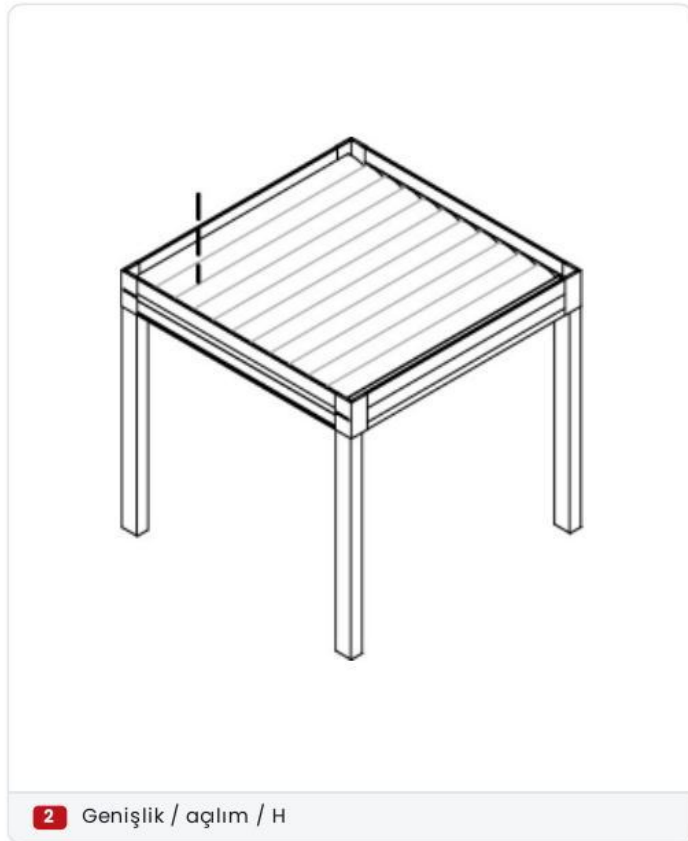
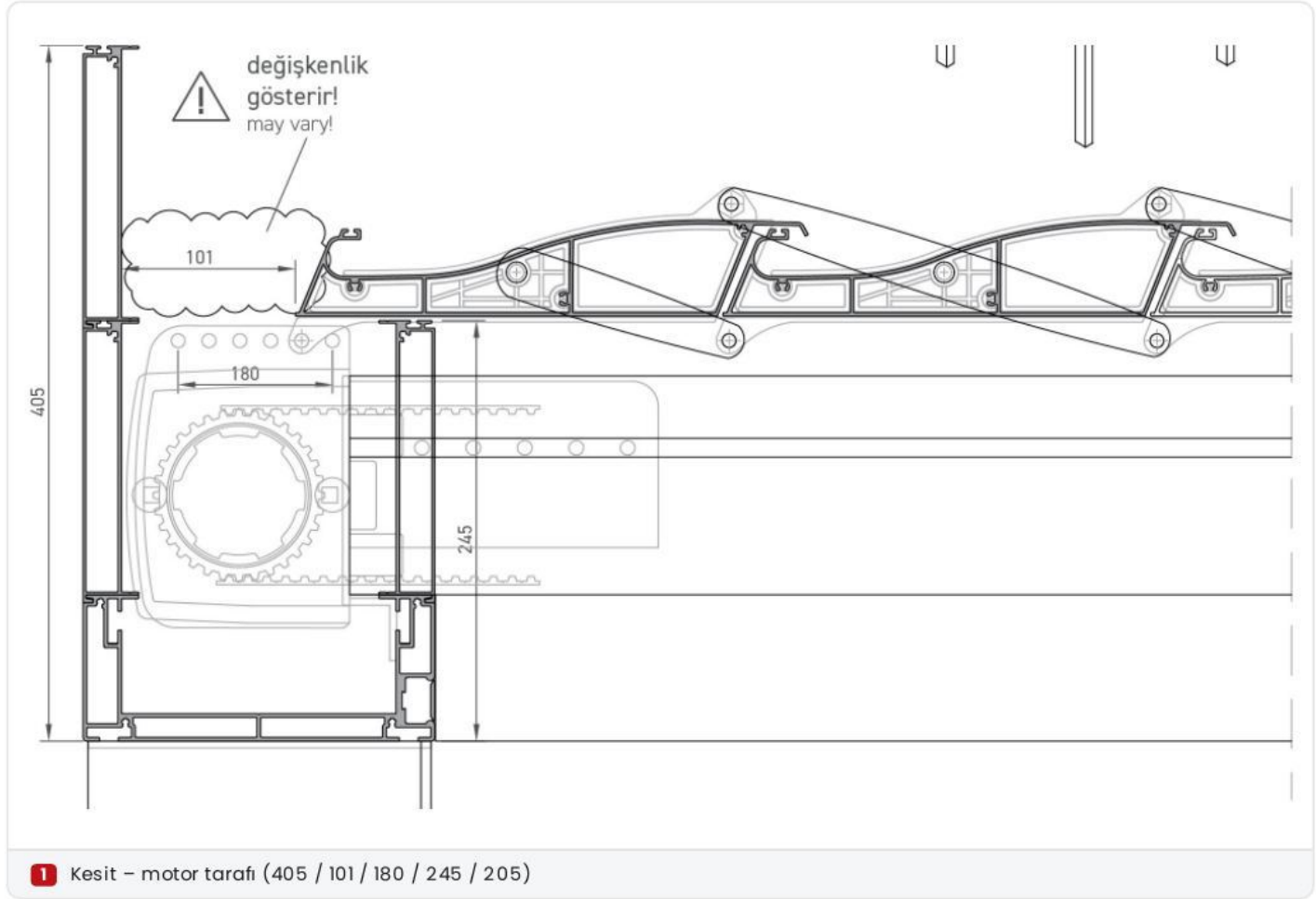
2 Genişlik / açılım / H



3 İzometrik – dere köşesi BC102 / BC104

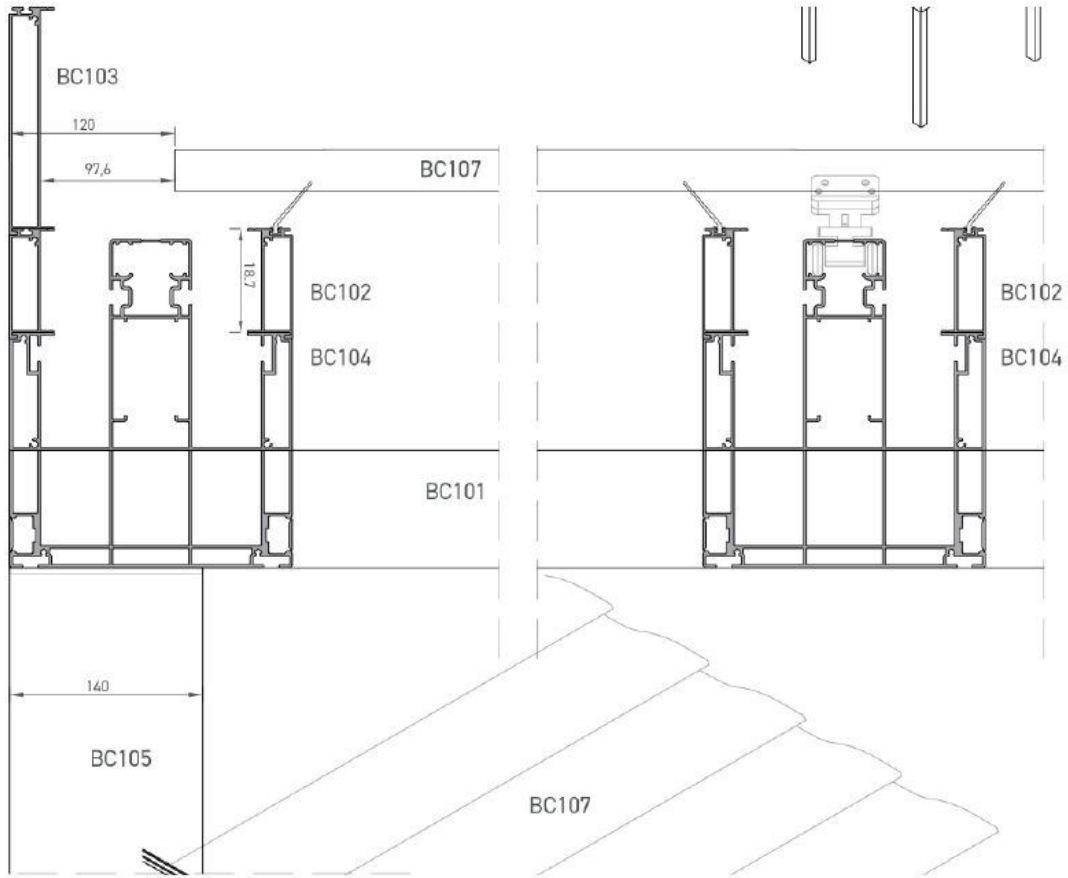
Sistem Detayları – Motor Tarafı

SYSTEM DETAILS – MOTOR SIDE

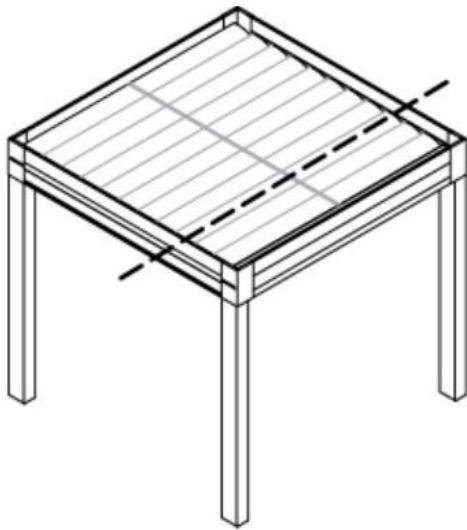


Sistem Detayları – Motor Borusu

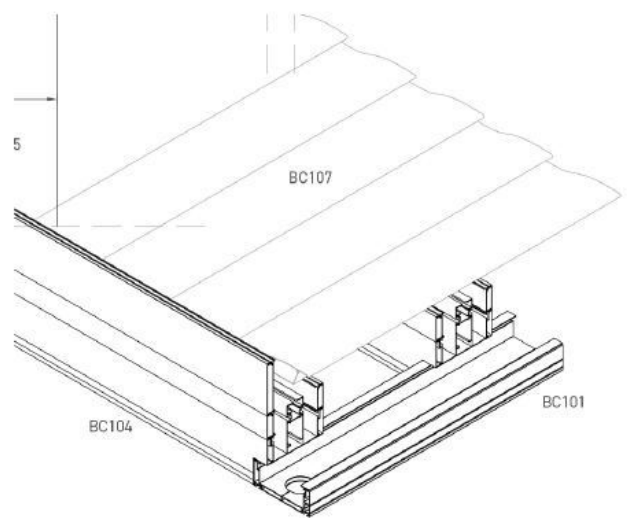
SYSTEM DETAILS – MOTOR TUBE



1 Kesit – motor borulu dere



2 Genişlik / ağırlık / H

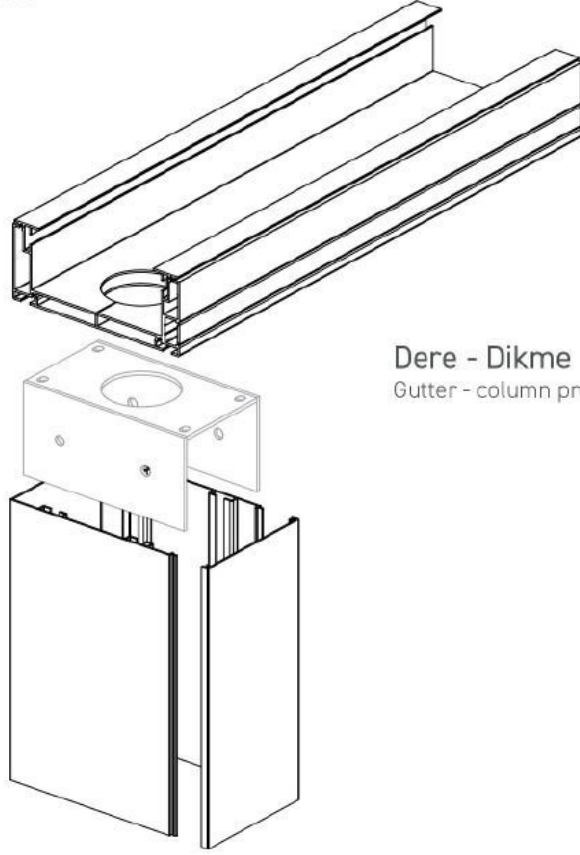


3 İzometrik – BC107 paneller / BC104 raylı dere

Dere – Dikme Profili Bağlantısı

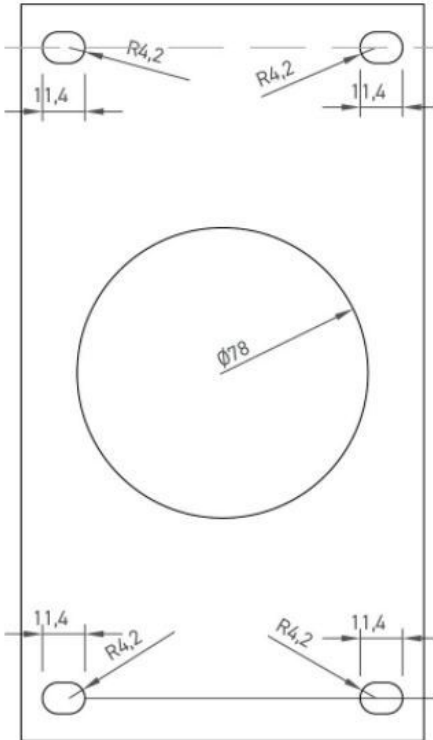
GUTTER – COLUMN PROFILE CONNECTION

sheet

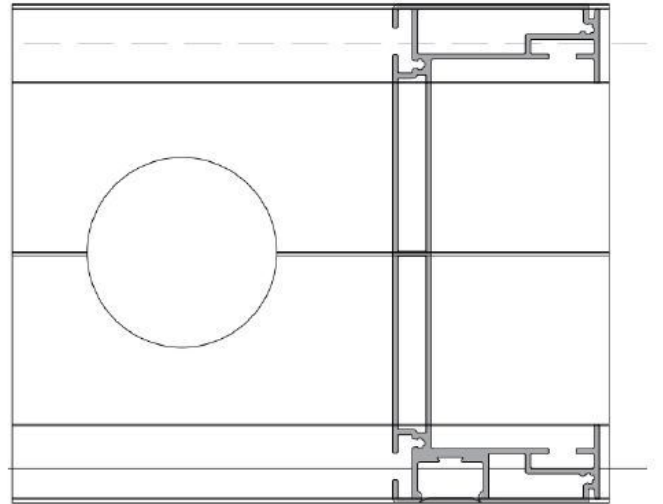


Dere - Dikme
Gutter - column pr

1 Dere – dikme bağlantısı 3D



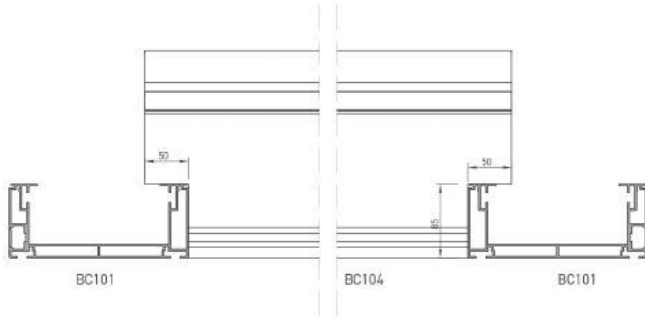
2 4 mm siyah sac taban plakası (Ø78, R4,2)



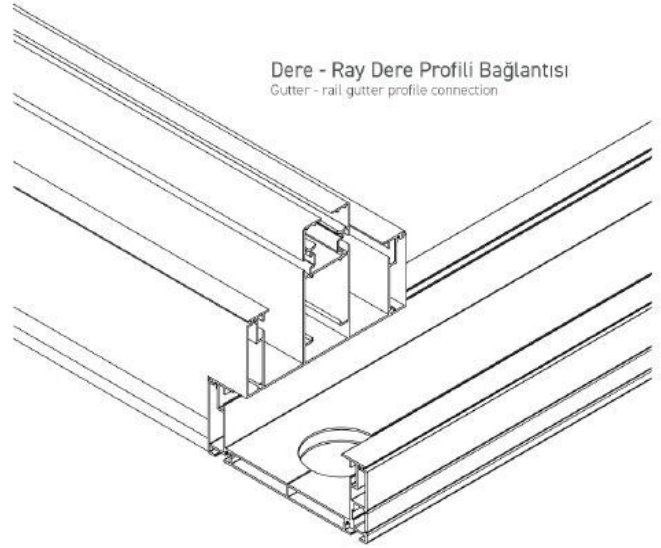
3 BC101 plan – dikme plakası

Dere – Raylı Dere Bağlantısı ve Koparma Noktaları

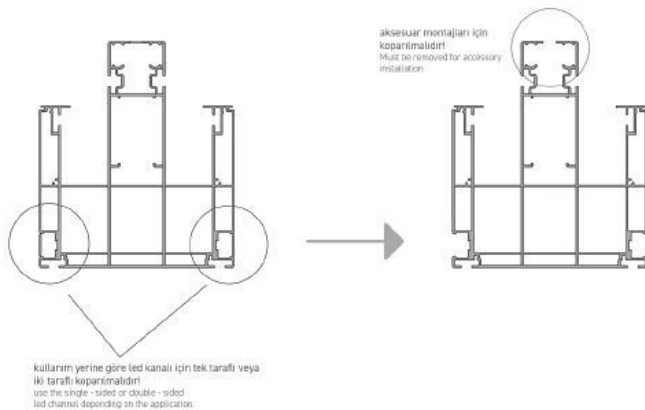
GUTTER – RAIL GUTTER CONNECTION & BREAK-OFF POINTS



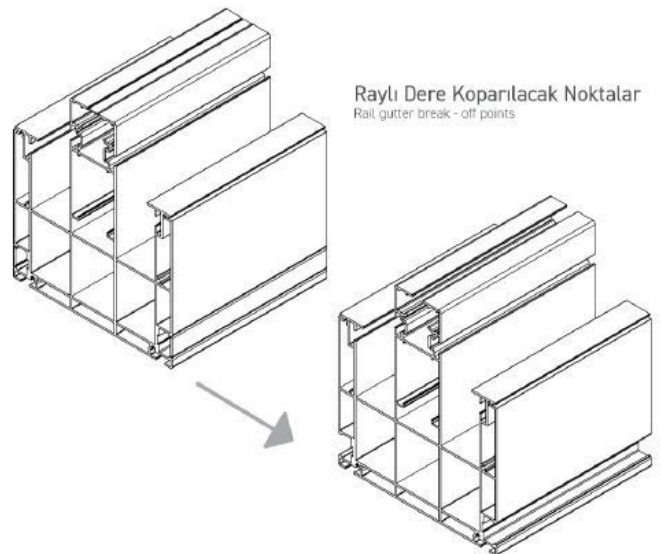
1 Kesit – BC101 / BC104 / BC101 birleşimi



2 Dere – raylı dere bağlantısı 3D



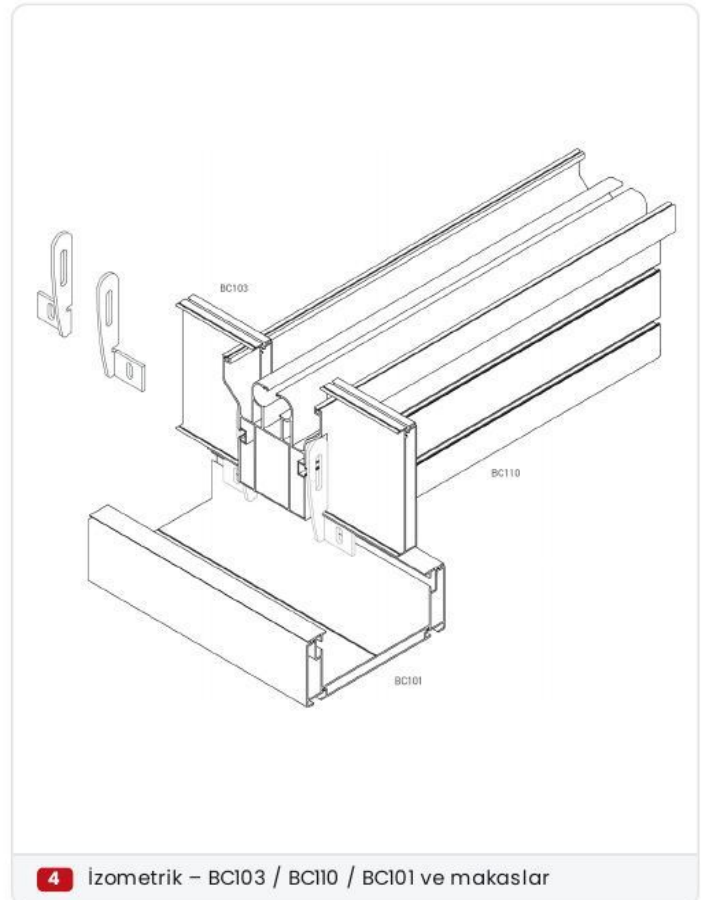
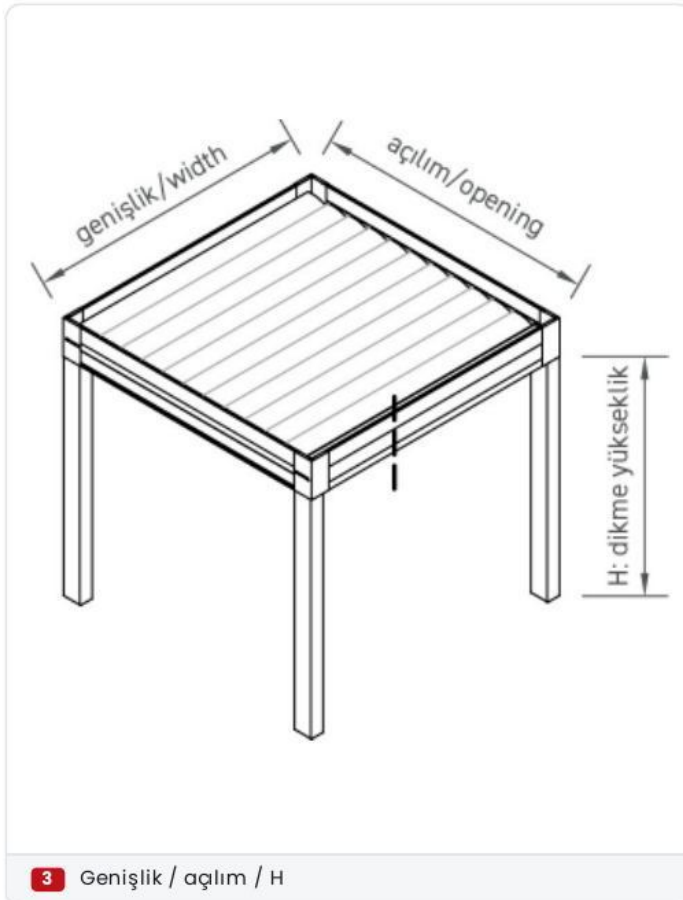
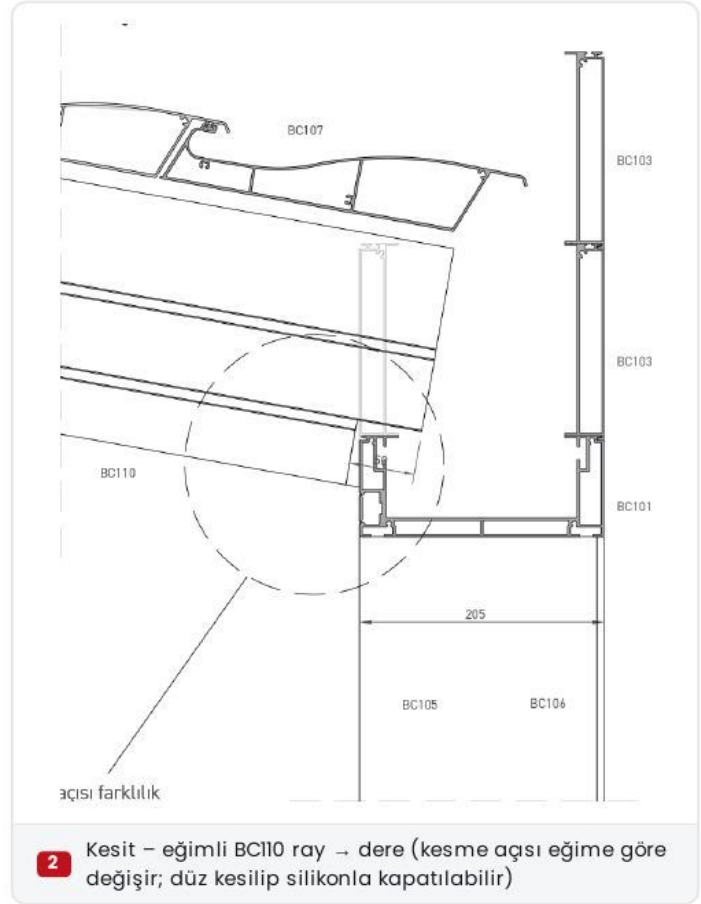
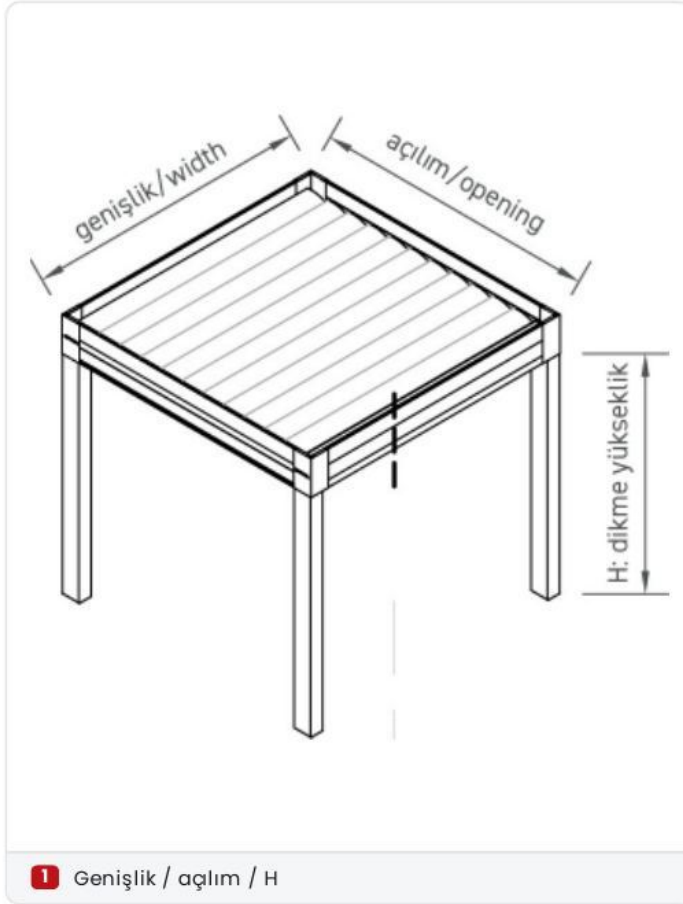
3 BC104 koparma noktaları – kesit



4 Raylı dere koparılacak noktalar (aksesuar montajı ve LED kanalı için)

Eğimli Ray ve Makas Detayları

SLOPED RAIL & LINK-ARM DETAILS





G TECH
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ÜRÜN GRUPLARI / PRODUCT LINES

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