



MAXIVERANDA
PERGOLA & GLASS SYSTEMS



TECHNICAL CATALOGUE

SKYLIS

Bioclimatic rolling roof

Motorised aluminium roof with panels that slide and stack on rail gutters.

GUTTER

205 mm

BC101 gutter, BC104 rail gutter

COLUMN

205 × 140

BC105 column, BC106 cover

DRIVE

Motorised

Somfy tubular motor and remote



THE SYSTEM

A bioclimatic roof with panels that slide on rail gutters

Closed it keeps the rain out; open it lets in air and daylight

Skylis is a motorised bioclimatic roof. Its BC107 roof panels travel inside the BC104 rail gutter on carriages and stainless link arms. Closed, the panels form a watertight roof; opened, they stack at the motor side for full ventilation and daylight.

The load-bearing frame – 205 mm gutter and 205 × 140 mm column – integrates an LED channel and carries rainwater down through the columns.

Somfy tubular motor with remote control

BC108 motor tube, timing-belt drive in every rail

Carriages and stainless link arms

Panels run smoothly inside the rail gutter

Watertight closed, fully ventilated open

Panels stack at the motor side when opened

Options: PU-foam-filled panels, LED strip

LED channel built into the rail gutter

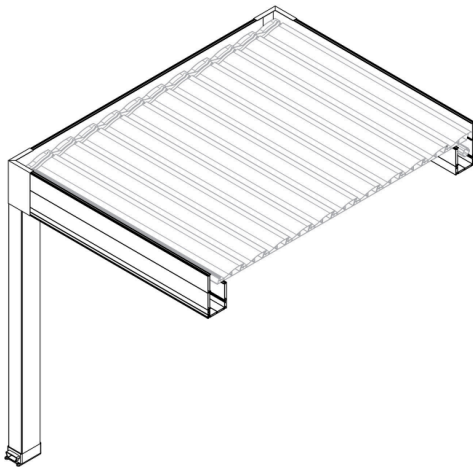
Drainage through the columns

PVC downpipe with leaf guard inside each column

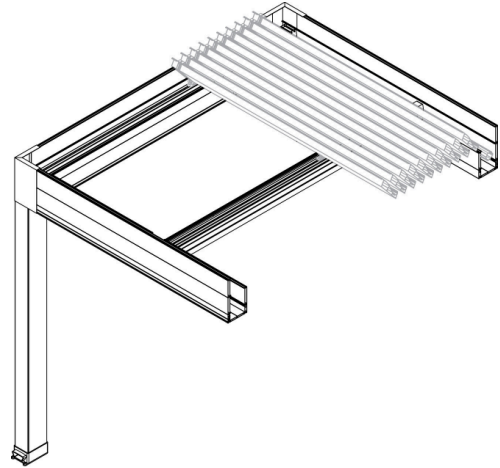
RAL 7016 textured or RAL 9016 white

Powder-coated EN AW-6063 aluminium profiles

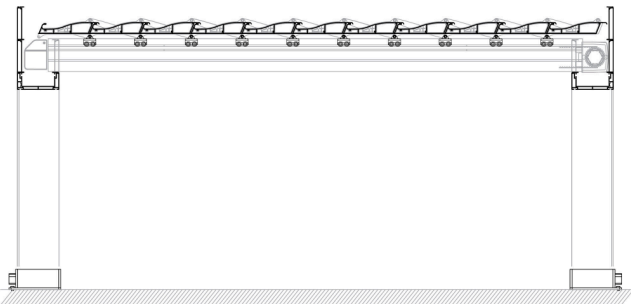
1 Panels closed



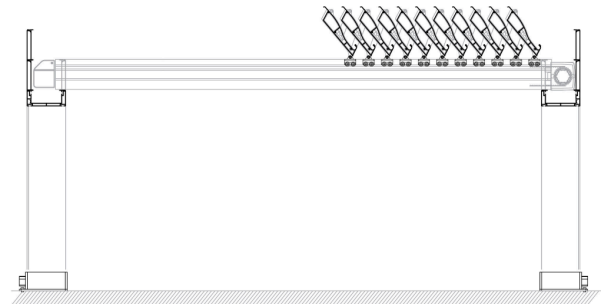
2 Panels open, stacked



3 Section, closed



4 Section, open

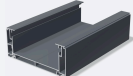
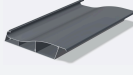
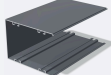
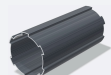


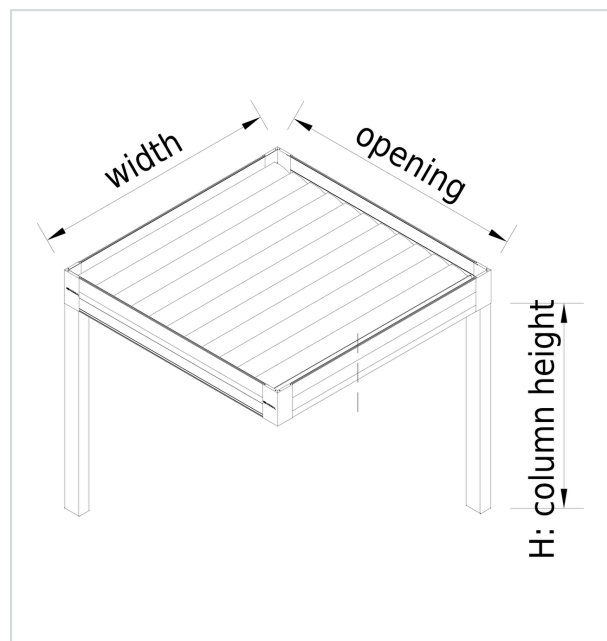


COMPONENTS

System profiles and how Skylis is measured

Ten extrusions make up the frame, the rails and the roof panels

3D	CODE	PROFILE	SIZE (MM)	KG/M	PAGE
	BC101	Gutter profile Front and rear gutter	205 × 85	5.396	04
	BC104	Rail gutter profile Side and middle rails	205 × 237.4	12.825	04
	BC102	Gutter add-on, small Raises the rail gutter wall	32.4 × 79.4	1.150	05
	BC103	Gutter add-on, large Fascia on gutters and rails	32.4 × 164.4	1.980	05
	BC107	Roof panel profile Sliding roof panel	299 × 54.6	3.906	05
	BC105	Column profile Load-bearing column	205 × 140	4.461	06
	BC106	Column cover profile Closes the column	140 × 8.2	0.830	06
	BC108	Motor tube profile Houses the tubular motor	Ø64.8 / Ø67.4	0.995	06
	BC109	160 rail profile Rail, 160 mm high	100 × 160	6.082	07
	BC110	200 rail profile Rail for sloped installations	100 × 207	8.426	07



Opening

The direction the panels travel – the length of the BC104 rail gutter.

Width

Along the panel length – BC101 gutter, BC107 panel and BC108 motor tube.

H – column height

From the floor to the underside of the gutter (BC105 / BC106).

Panel pitch 250 mm

Number of panels = opening ÷ 250 mm, rounded up.

Rails

Two side rail gutters; wider systems add middle rails.



PROFILES · GUTTERS

Gutter and rail gutter profiles

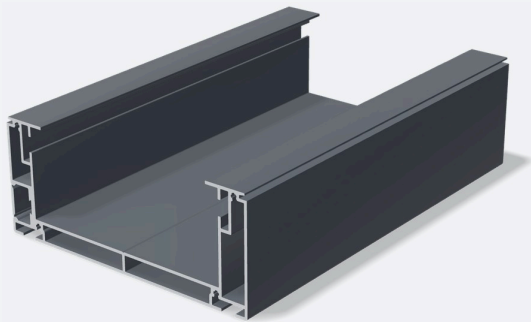
The frame that carries the panels and the rainwater

BC101 Gutter profile

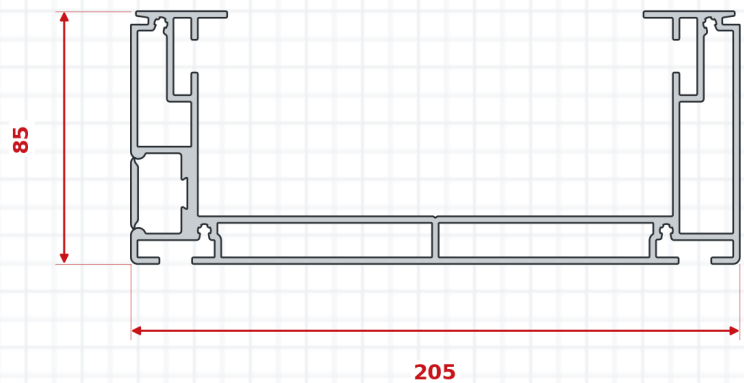
205 × 85 mm · wall 2.2 mm

5.396 kg/m

3D



2D · MM

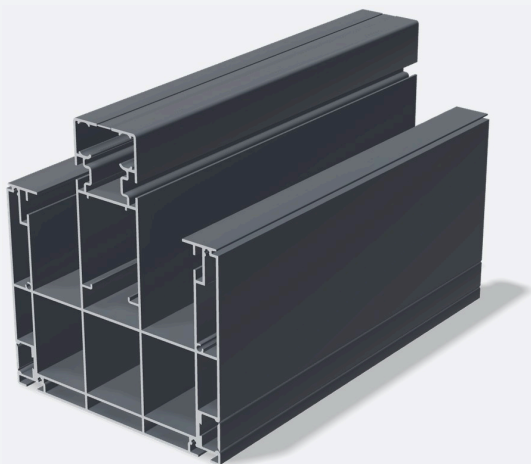


BC104 Rail gutter profile

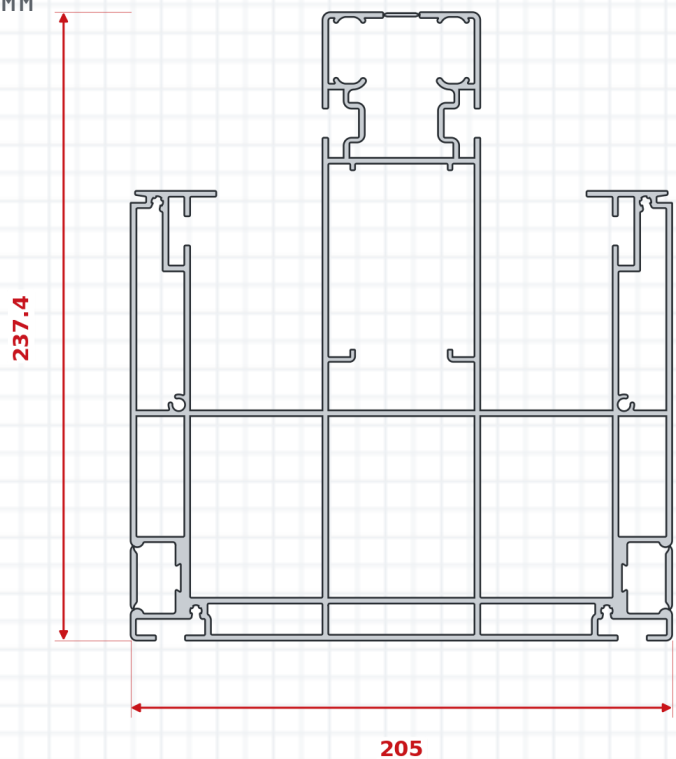
205 × 237.4 mm (main body 170 mm) · Ix 2274.13 cm⁴ · Iy 2128.44 cm⁴

12.825 kg/m

3D



2D · MM





PROFILES · ADD-ONS AND PANEL

Gutter add-on profiles and the roof panel

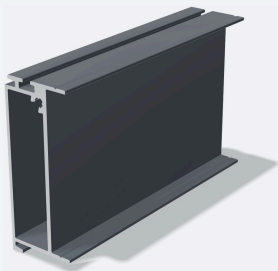
Add-ons raise the gutter walls; the panel forms the roof

BC102 Gutter add-on, small

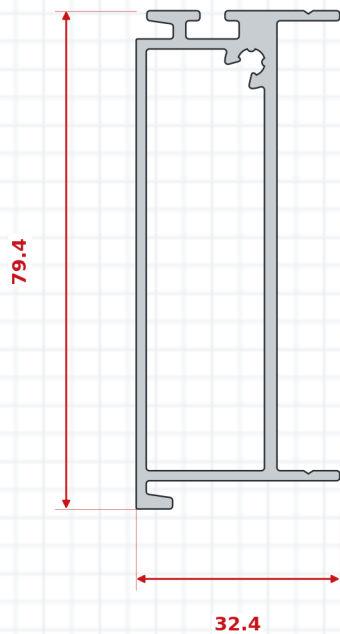
1.150 kg/m

32.4 × 79.4 mm
I_x 31.89 cm⁴ · I_y 3.96 cm⁴

3D



2D · MM

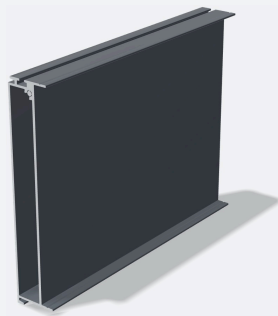


BC103 Gutter add-on, large

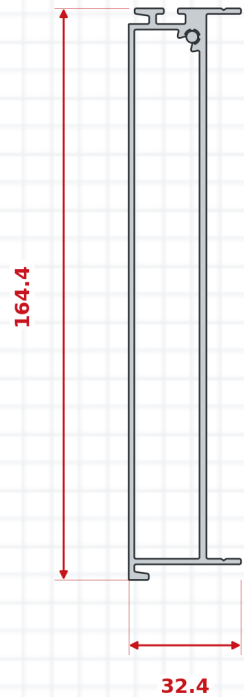
1.980 kg/m

32.4 × 164.4 mm
I_x 215.58 cm⁴ · I_y 7.21 cm⁴

3D



2D · MM

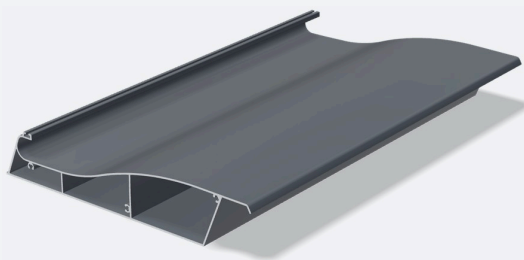


BC107 Roof panel profile

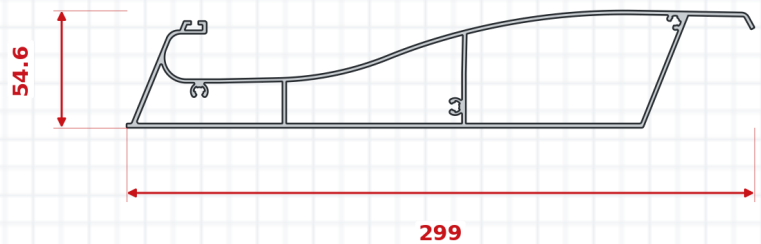
3.906 kg/m

299 × 54.6 mm · panel pitch 250 mm · I_x 50.9 cm⁴ · I_y 1069.03 cm⁴

3D



2D · MM





PROFILES · COLUMN AND MOTOR

Column, column cover and motor tube

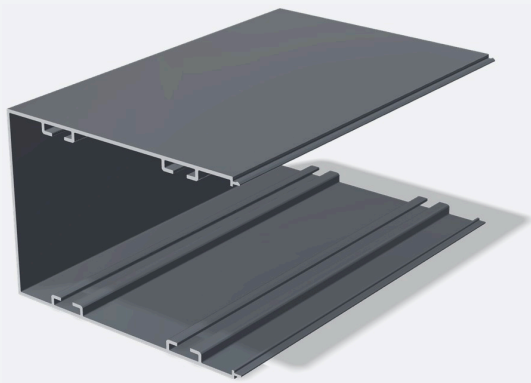
The column carries the frame and the rainwater downpipe

BC105 Column profile

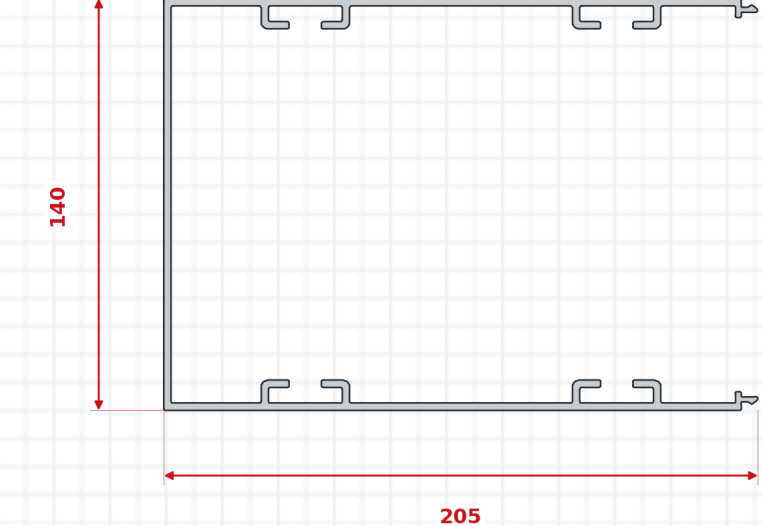
205 × 140 mm · Ix 644.4 cm⁴ · Iy 707.54 cm⁴

4.461 kg/m

3D



2D · MM

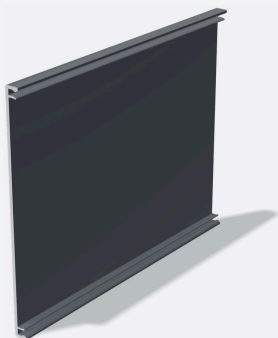


BC106 Column cover profile

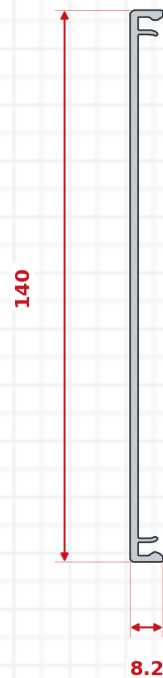
140 × 8.2 mm

0.830 kg/m

3D



2D · MM

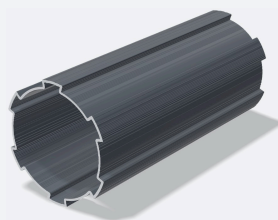


BC108 Motor tube profile

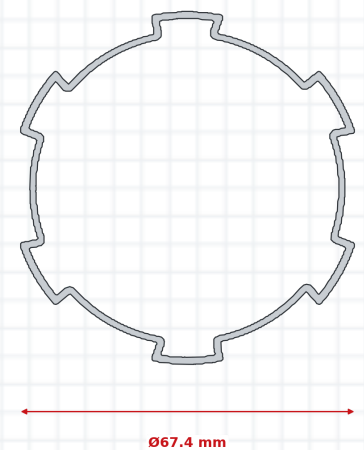
Ø64.8 / Ø67.4 mm · Ix = Iy 22.32 cm⁴

0.995 kg/m

3D



2D · MM

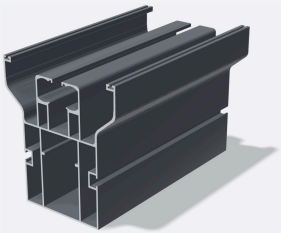
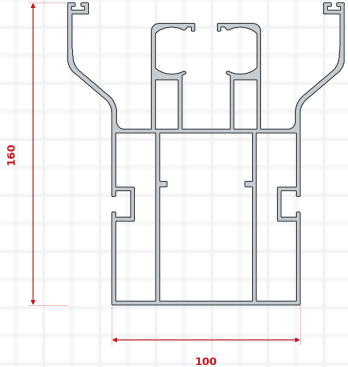
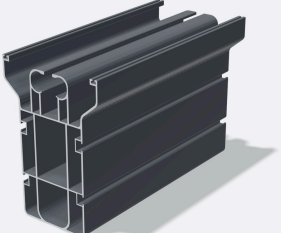
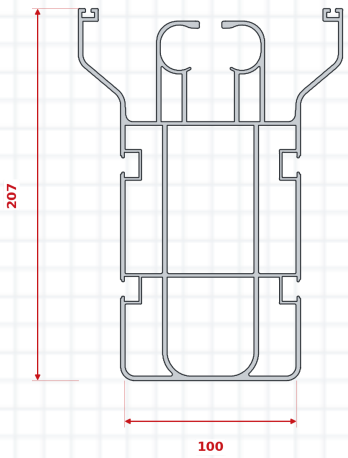




PROFILES · RAILS AND FINISHES

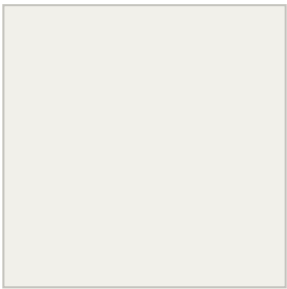
Rail profiles and colours

Two standard powder-coated colours for the whole system

BC109 160 rail profile 100 × 160 mm Ix 508.44 cm⁴ · Iy 373.58 cm⁴	6.082 kg/m
3D 	2D · MM 
BC110 200 rail profile 100 × 207 mm Ix 1260.41 cm⁴ · Iy 470.25 cm⁴	8.426 kg/m
3D 	2D · MM 

Colours

Electrostatic powder coating, 60–80 µm

 RAL 7016 Anthracite Textured finish Standard colour	 RAL 9016 White Traffic white Standard colour
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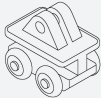
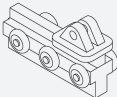
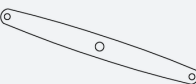
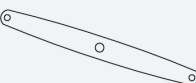
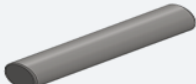
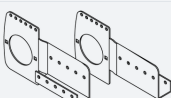
Colours are approximate in print; confirm with a RAL colour card or a sample.



ACCESSORIES · MECHANISM

Panel mechanism, drive and motor

The parts that move the roof panels along the rails

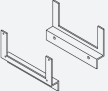
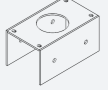
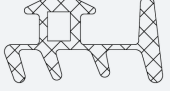
CODE	IMAGE	DESCRIPTION	WHERE USED	UNIT
S03		Small carriage	Carries the panels inside the BC104 rail	pc
S04		Large carriage	Lead carriage, one per rail	pc
S02		Middle hinge	Panel joint on the middle rails	pc
S08		Large link arm, stainless	Links neighbouring panels	pc
S09		Small link arm, stainless	Link arm at the end panels	pc
S07		M12 pin	Panel-to-carriage hinge pin	pc
S06		Panel end cap	Ends of the BC107 panels	pc
S05		Timing belt	Drive belt along each rail	m
S12		Rail rear set	Rear end of each rail	set
S13		Rail front set	Front end of each rail	set
S10		Rail end cover, motor flange	Rail end at the motor side	pc
S11		Motor connection flange	Connects the motor to the BC108 tube	pc
S25		Tubular motor (Somfy)	Inside the BC108 motor tube	pc
S26		Remote control	Operates the motor	pc



ACCESSORIES · CONNECTORS AND GASKETS

Connectors, covers, gaskets and fasteners

The parts that join the frame, seal it and drain it

CODE	IMAGE	DESCRIPTION	WHERE USED	UNIT
S01		Rail gutter connector	Joins the BC104 rail gutter to the BC101 gutter	pc
S14		Gutter-column connector	BC101 gutter to the top of the BC105 column	pc
S15		Column middle connector	Intermediate connector inside the column	pc
S16		Floor connector	Column base plate	pc
S17		Gutter corner cover, with logo	Gutter corners · 2 mm aluminium	pc
S18		Gutter corner cover	Gutter corners · 2 mm aluminium	pc
S27	PVC	PVC drain set	Downpipe, elbow and leaf guard in each column	set
F1		Panel gasket	Along each panel, between panels	m
F2		Rail gasket	Around the system perimeter	m
S19		Socket screw M8 x 70	Carriage assembly	pc
S20		Socket screw M8 x 45	Carriage assembly	pc
S21		M8 lock nut	For the M8 socket screws	pc
S22		M10 square nut	Column connections	pc
S23		Stainless screw	Gutter corner covers	pc
S24		Screw 4.8 x 35	Panel end caps	pc

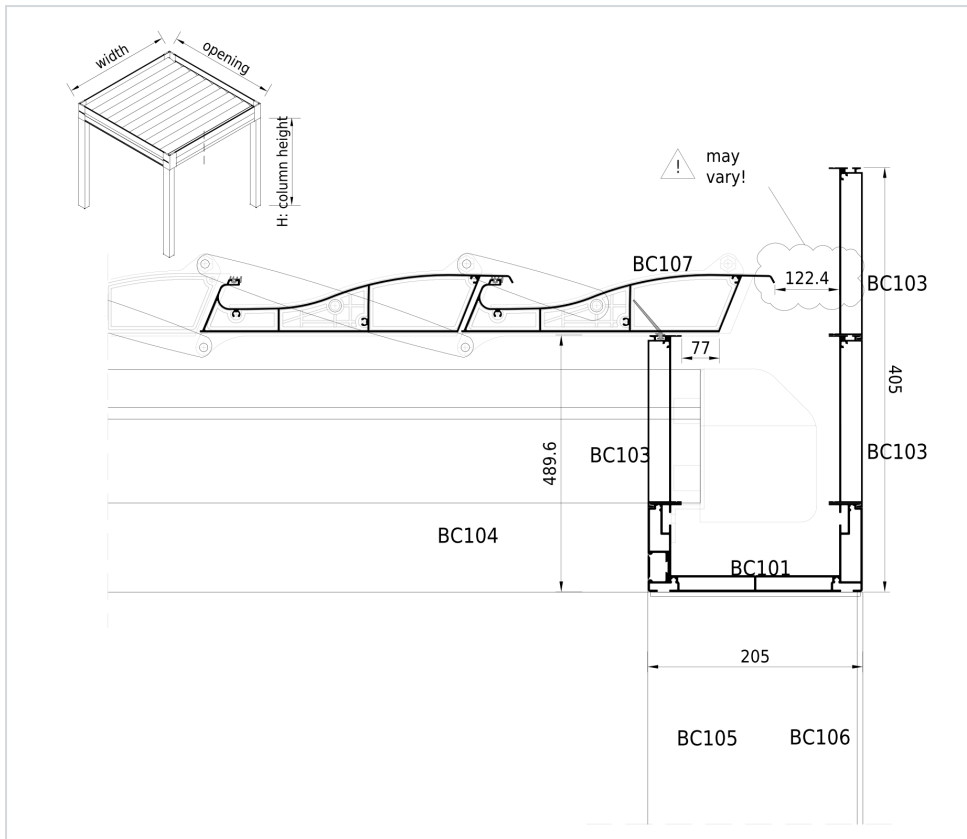


DETAIL 1

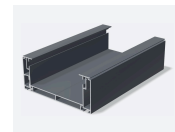
Gutter and panel section

Section along the opening

BC107 panels slide on the BC104 rail gutter. At the front, the BC101 gutter with BC103 add-ons sits on the BC105 / BC106 column. The clouded dimension varies by installation.



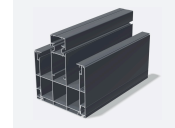
IN THIS DETAIL



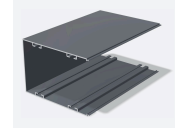
BC101
Gutter



BC103
Large add-on



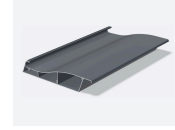
BC104
Rail gutter



BC105
Column

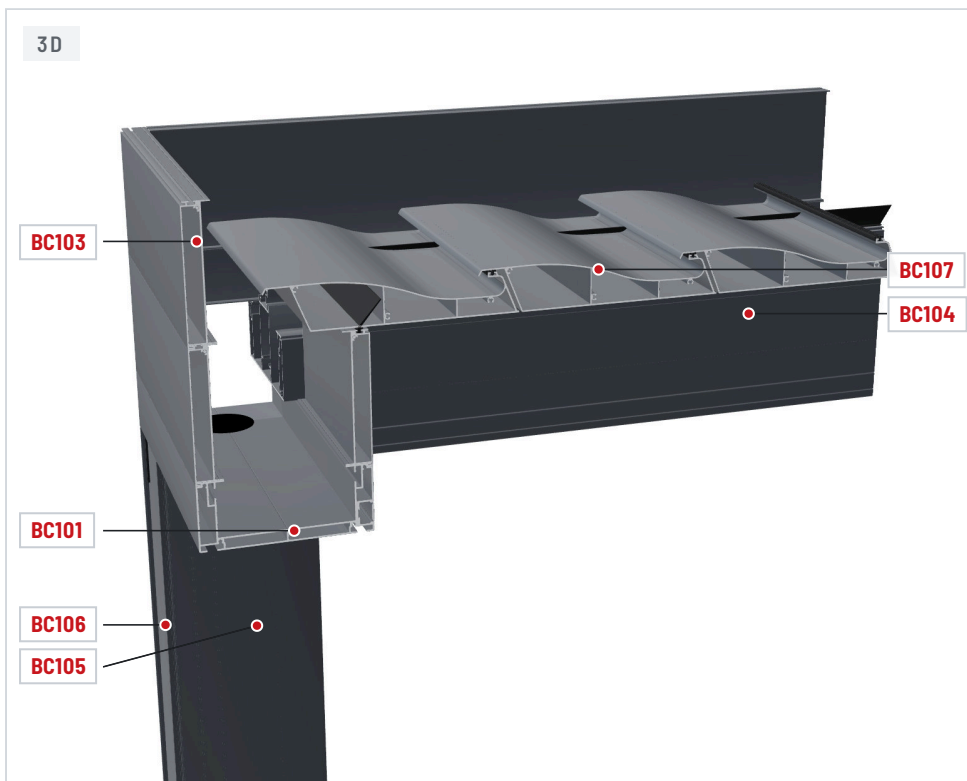


BC106
Column cover



BC107
Roof panel

3D



3D section along the opening, cut through the front gutter.

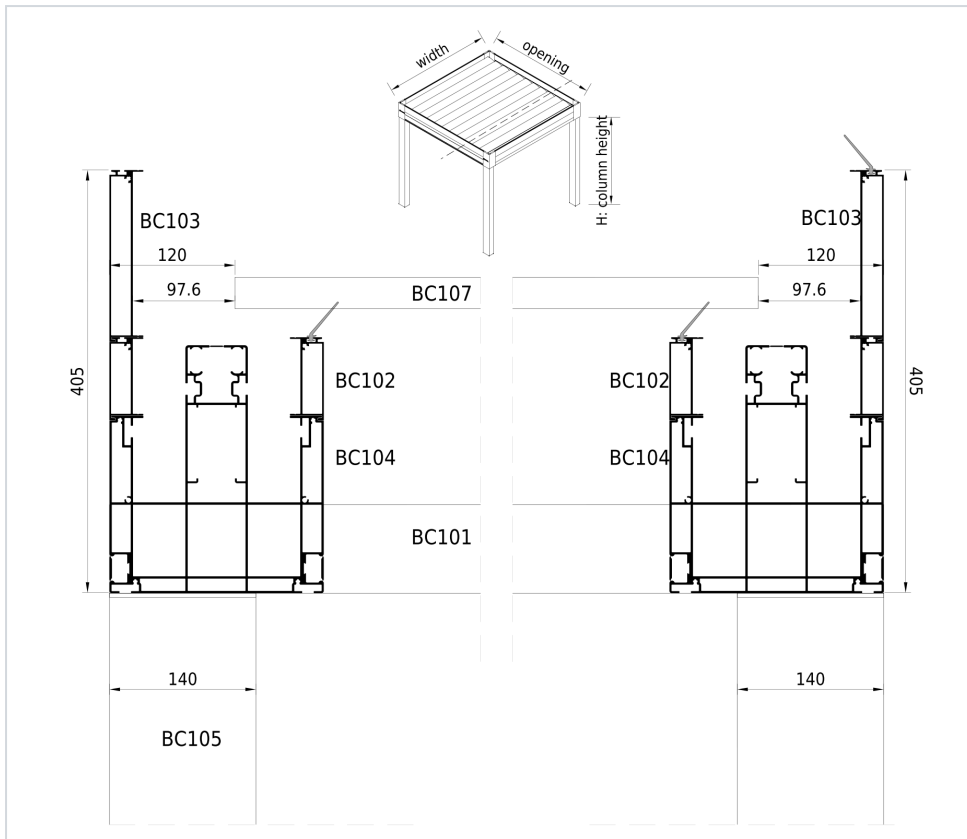


DETAIL 2

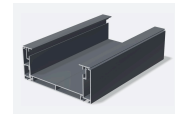
Double gutter section

Section across the width

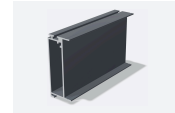
BC104 rail gutters on both sides, raised with BC102 and BC103 add-ons; the BC107 panel spans between the rails. Column width 140 mm, gutter height 405 mm.



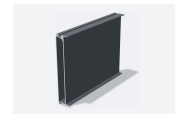
IN THIS DETAIL



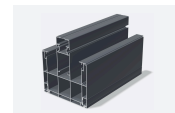
BC101
Gutter



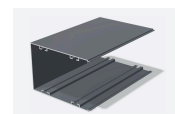
BC102
Small add-on



BC103
Large add-on



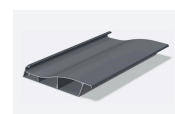
BC104
Rail gutter



BC105
Column



BC106
Column cover



BC107
Roof panel

3D section across the width at the side rail gutter.



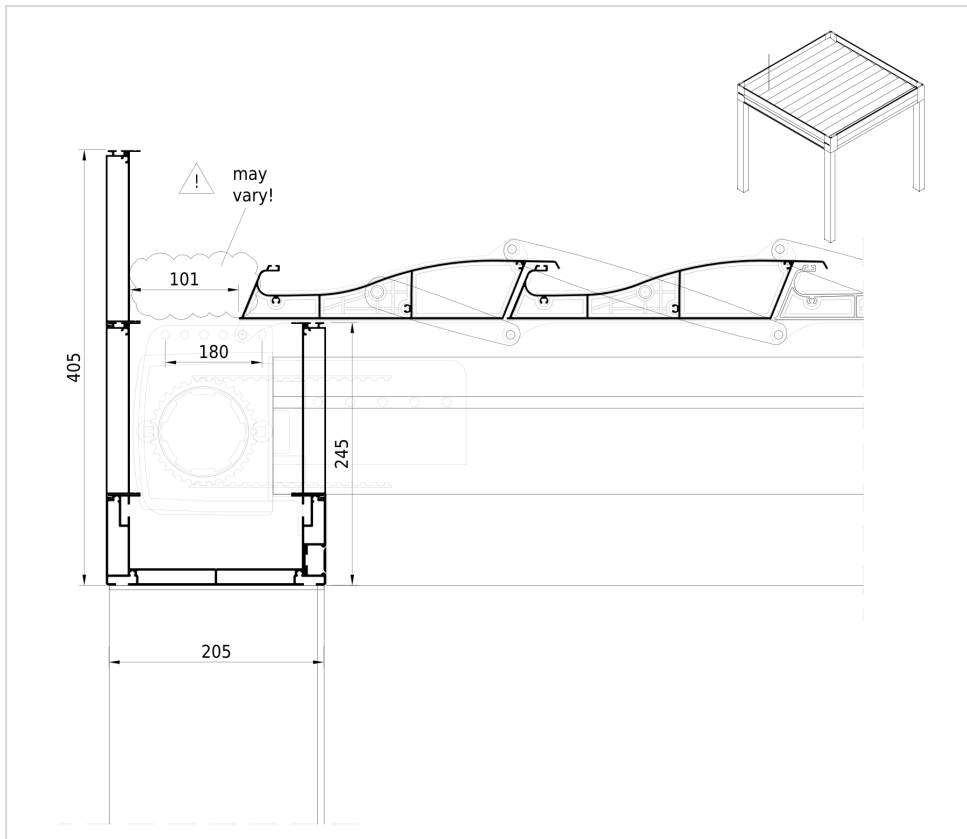


DETAIL 3

Motor side

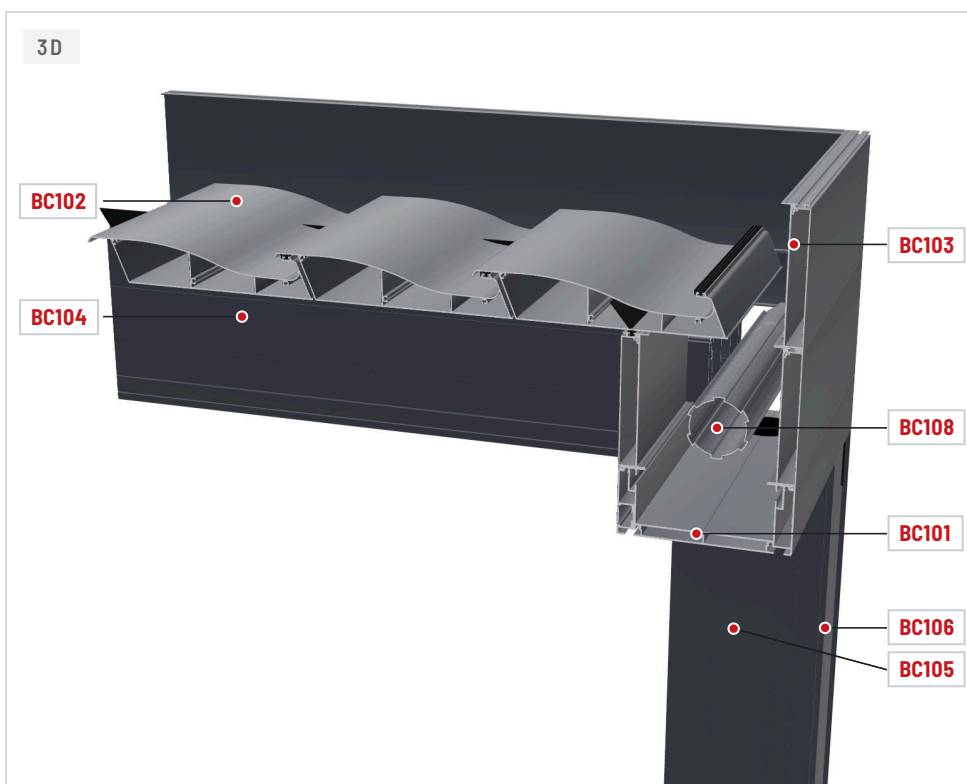
Section with the panels stacked

Opened panels stack at this end. The motor and drive pulley sit inside the BC101 / BC103 gutter; gutter height 405 mm, width 205 mm.



IN THIS DETAIL

	BC101 Gutter
	BC102 Small add-on
	BC103 Large add-on
	BC104 Rail gutter
	BC105 Column
	BC106 Column cover
	BC108 Motor tube
	S25 Motor



3D section at the motor side: BC108 motor tube in the back gutter.

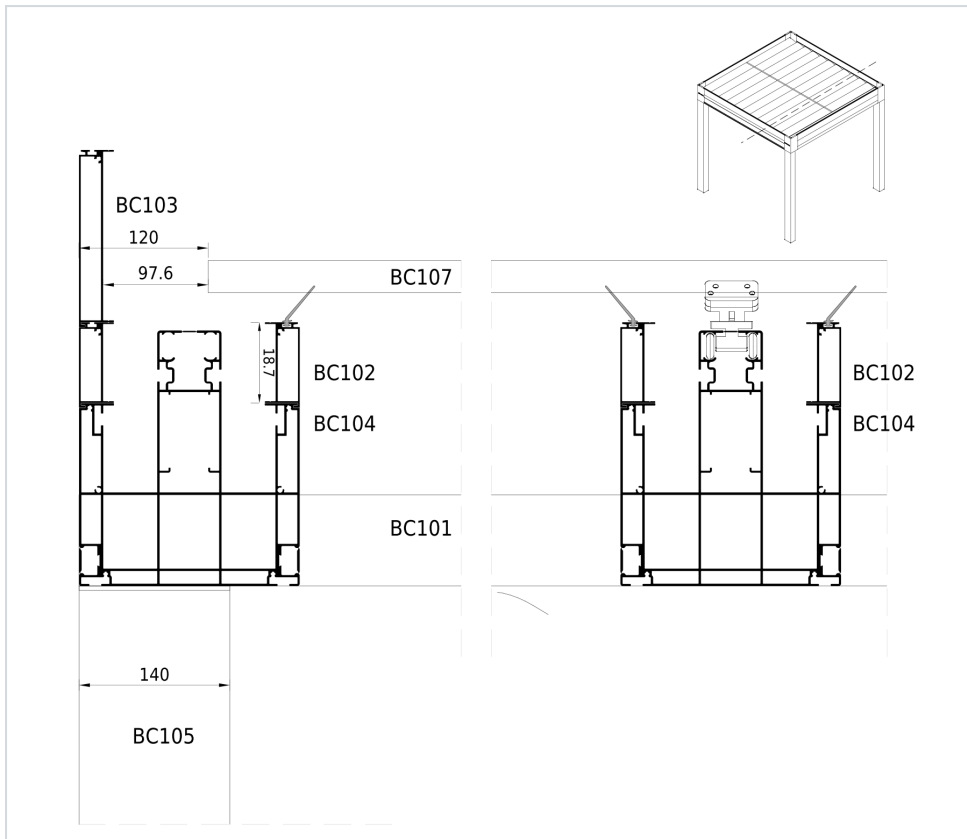


DETAIL 4

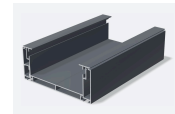
Motor tube and middle rail

Side rail and middle rail with carriage

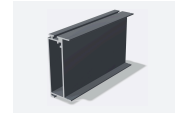
Wider systems add a BC104 middle rail between the side rail gutters; the panels ride on carriages in every rail.



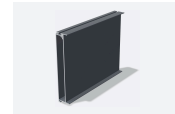
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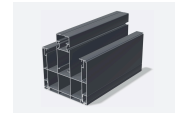
BC101
Gutter



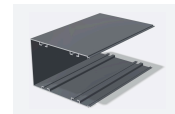
BC102
Small add-on



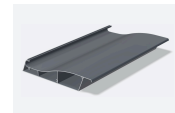
BC103
Large add-on



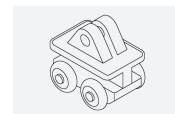
BC104
Rail gutter



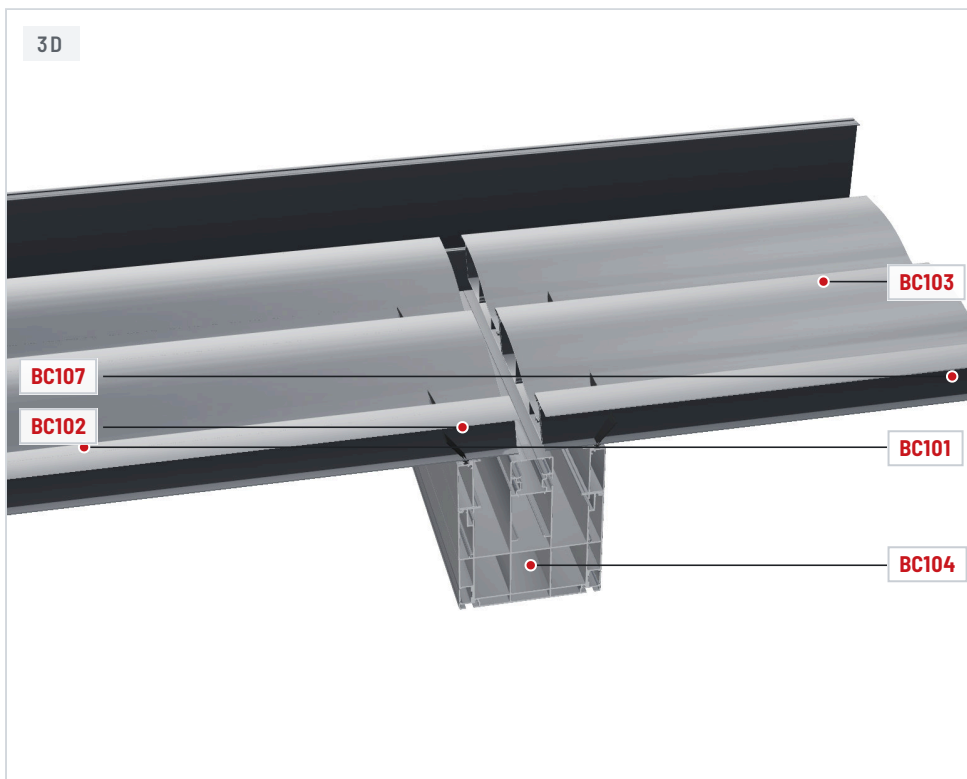
BC105
Column



BC107
Roof panel



S03
Small carriage



3D view of the BC104 middle rail carrying both panel bays.

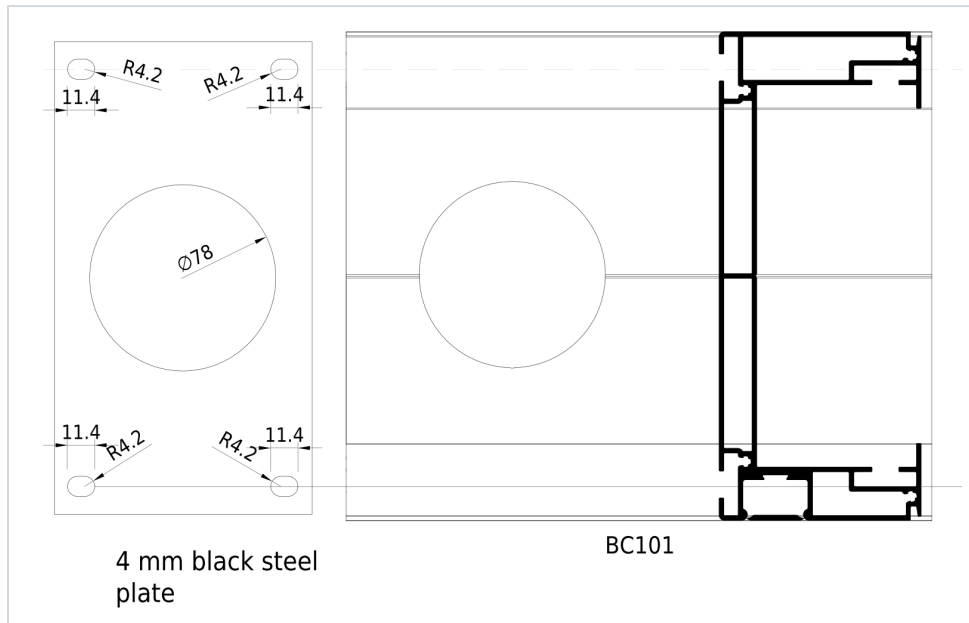


DETAIL 5

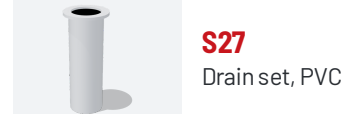
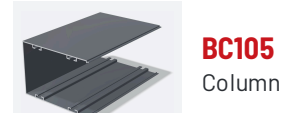
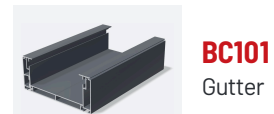
Gutter-to-column connection

Connection plate and drainage

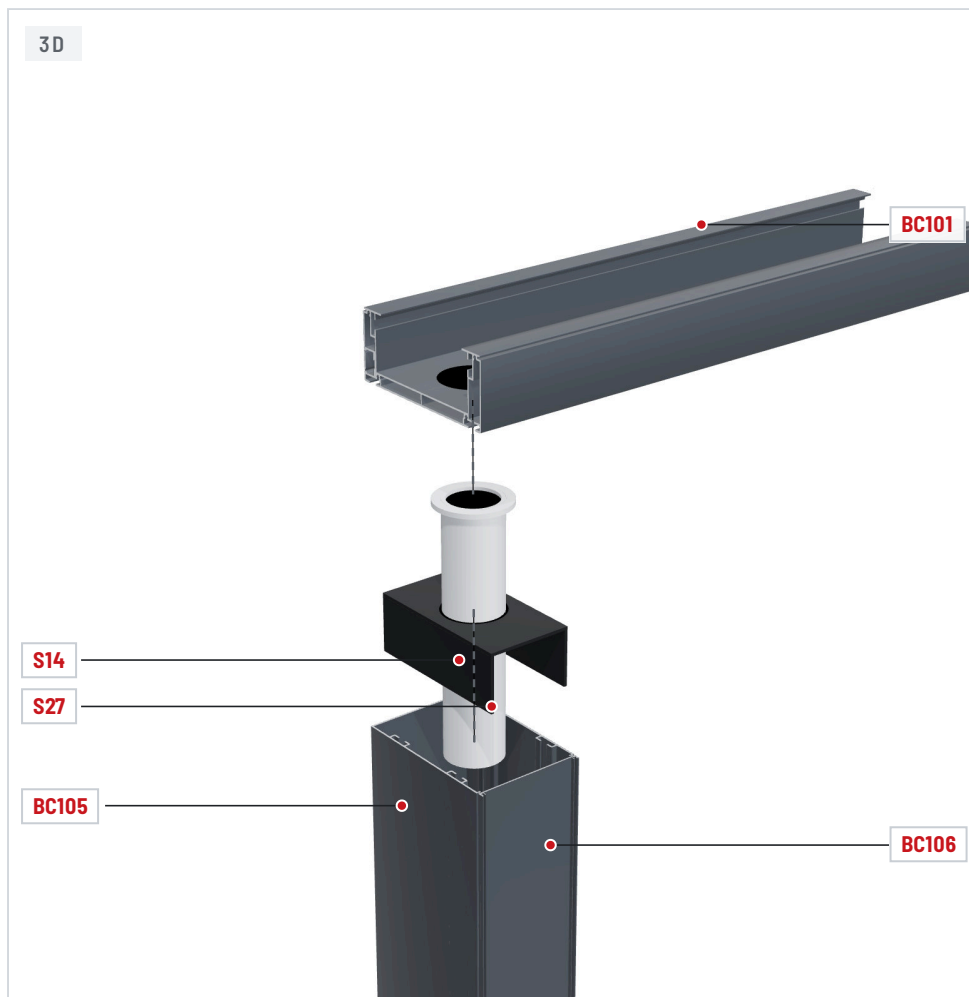
A 4 mm black steel plate joins the BC101 gutter to the BC105 column, with a Ø78 drain hole and R4.2 slotted fixing holes.



IN THIS DETAIL



Exploded 3D view: gutter, drain set, S14 connector and column.



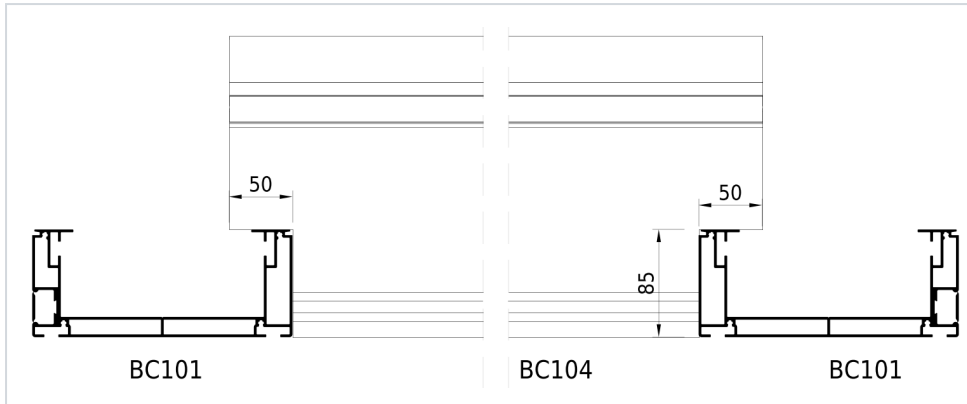


DETAIL 6

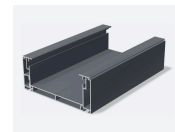
Gutter-to-rail-gutter connection

BC101 / BC104 / BC101 joint

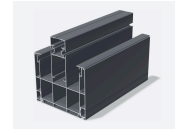
The BC104 rail gutter connects between two BC101 gutters with the S01 rail gutter connector; gutter height 85 mm.



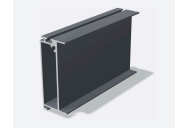
IN THIS DETAIL



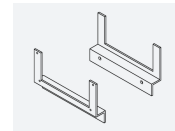
BC101
Gutter



BC104
Rail gutter

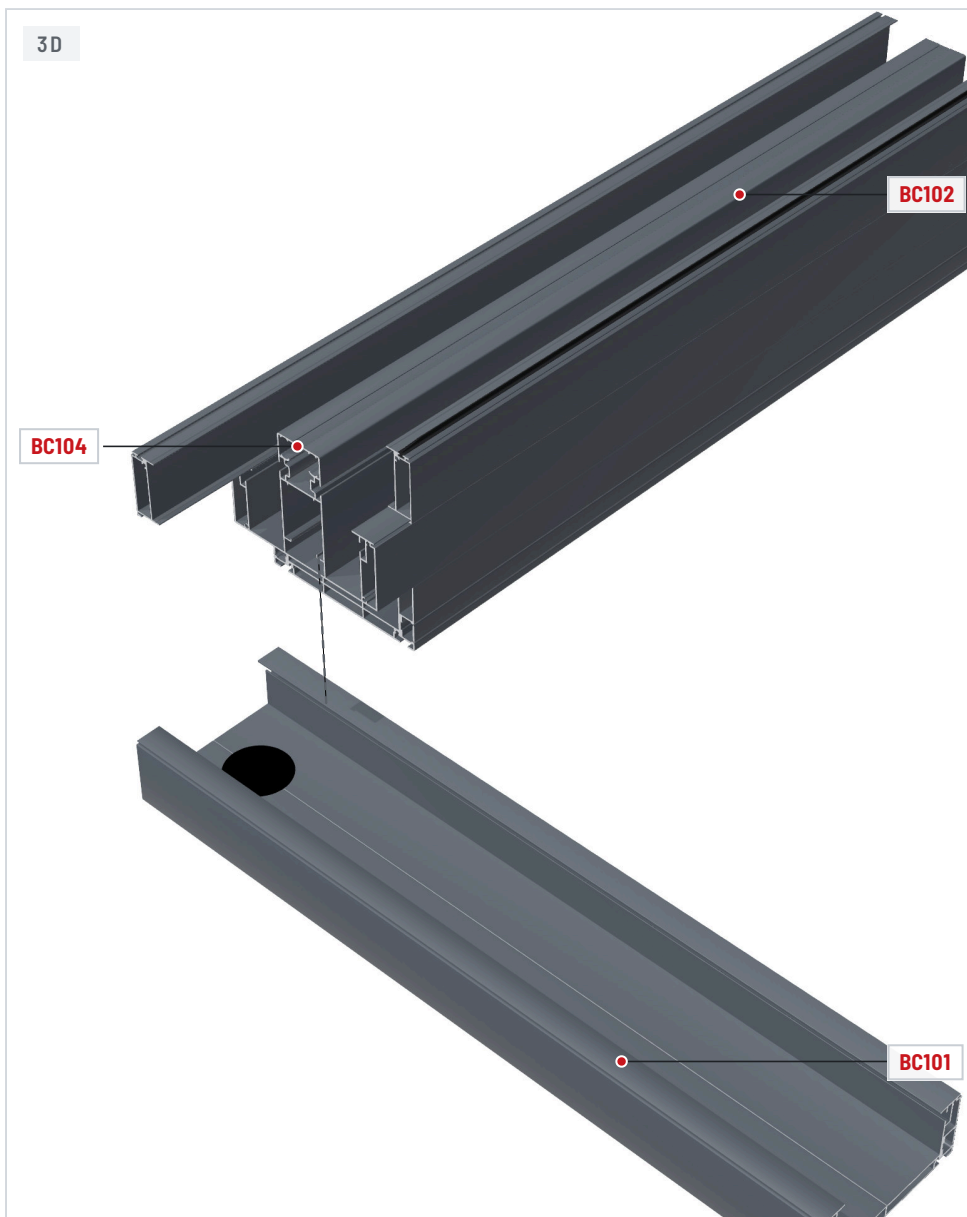


BC102
Small add-on



S01
Rail gutter connector

BC104 lifted off the BC102 to show the 50 mm overlap.



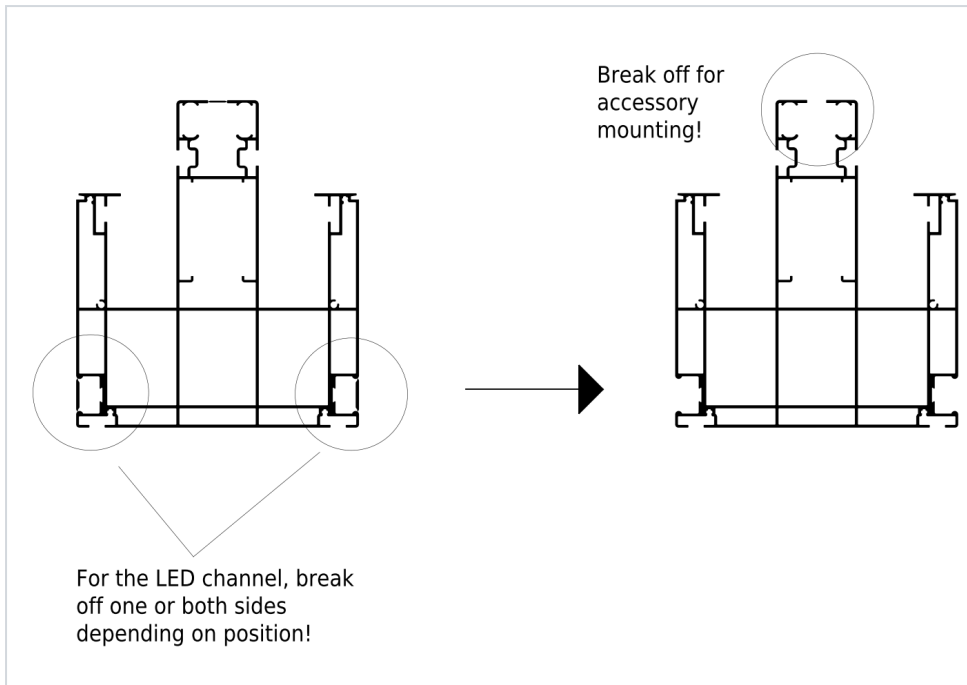


DETAIL 7

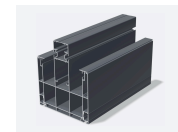
Rail gutter break-off points

BC104 before and after preparation

The break-off lips on the BC104 rail gutter are removed on site to suit each position.



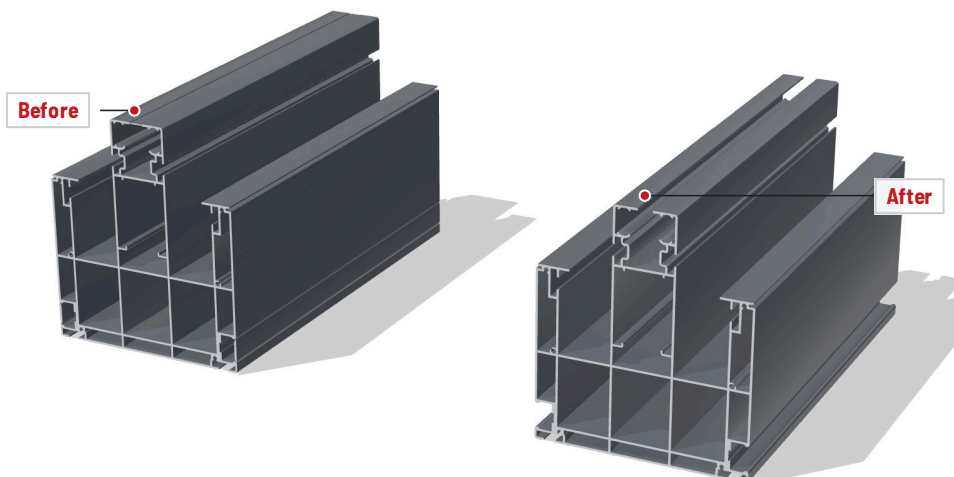
IN THIS DETAIL



BC104
Rail gutter

BC104 before and after removing the break-off lips.

3D



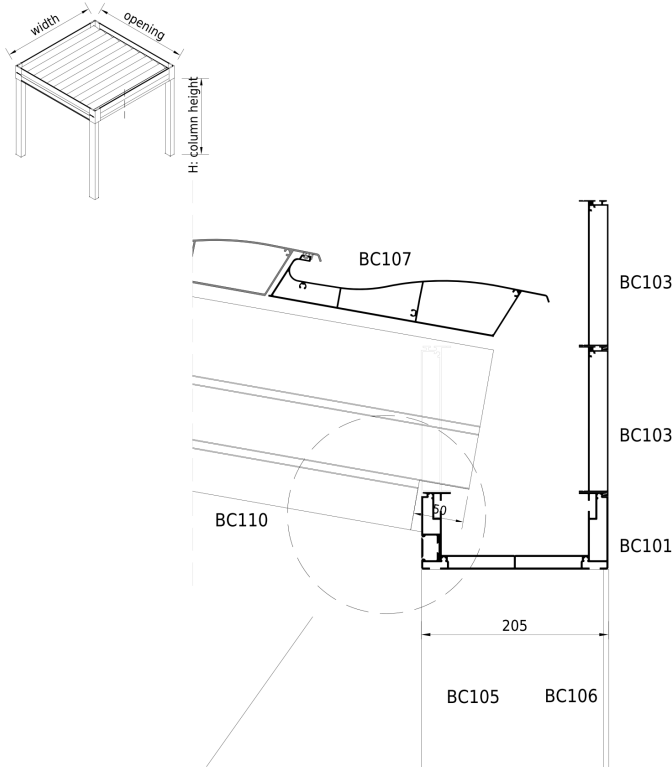


DETAIL 8

Sloped installation

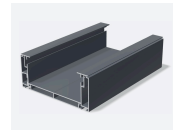
BC110 rail meeting the gutter

The BC110 rail meets the gutter at the roof pitch. The cut angle depends on the slope; alternatively cut square and seal the gap with silicone.



The cut angle depends on the slope;
alternatively cut square and seal the gap with
silicone.

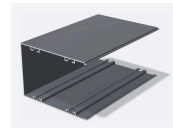
IN THIS DETAIL



BC101
Gutter



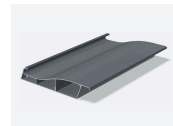
BC103
Large add-on



BC105
Column



BC106
Column cover

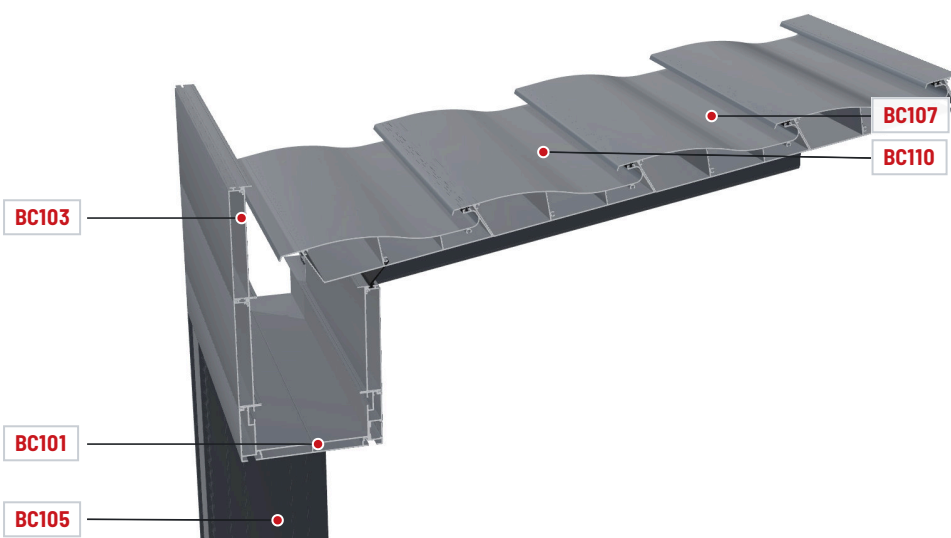


BC107
Roof panel



BC110
200 rail

3D



3D section of the sloped installation
(10°).

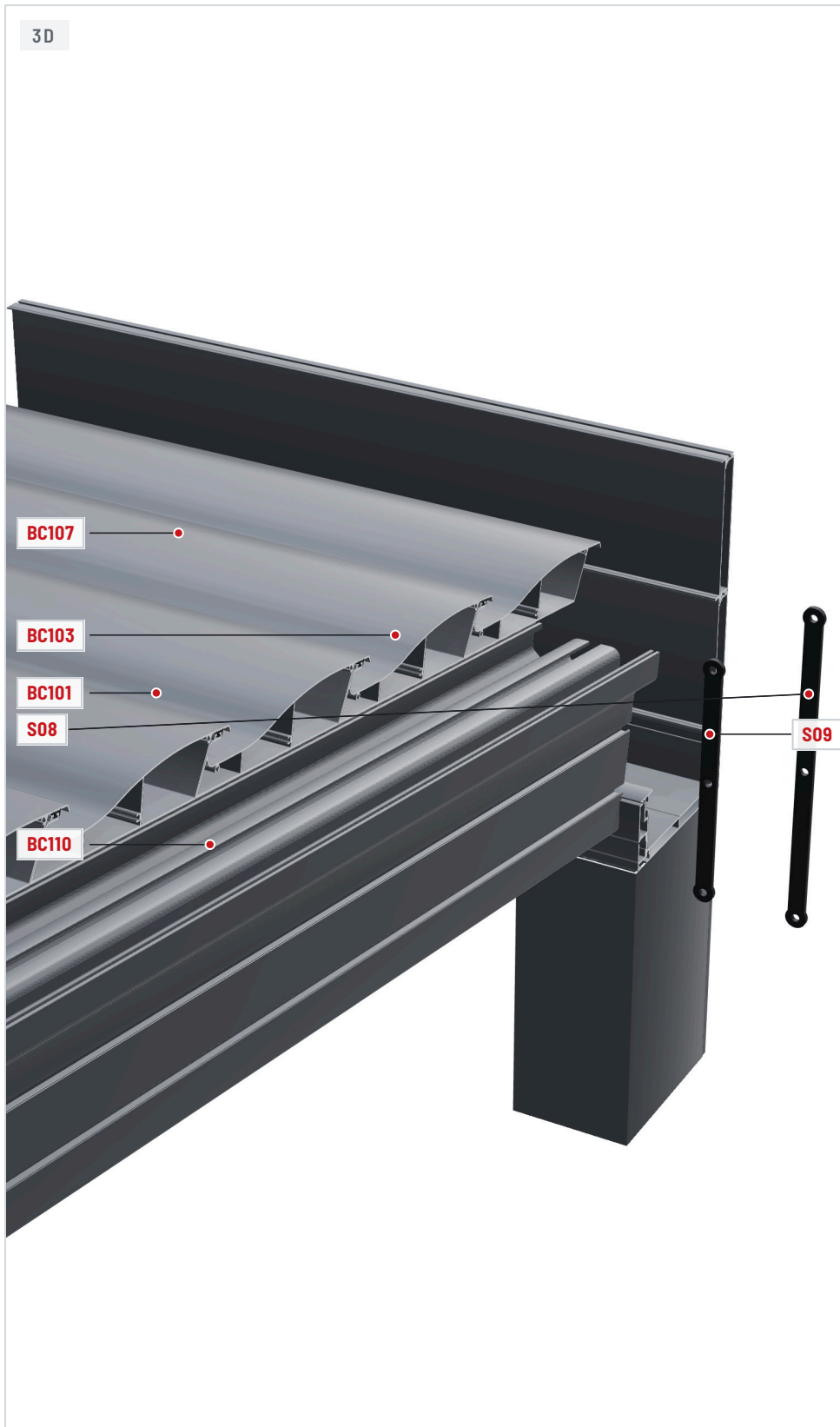


DETAIL 9

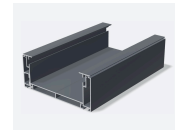
Sloped rail, isometric

BC110 rail with gutter and link brackets

BC110 rail joined to the BC103 add-on and the BC101 gutter; the link brackets are shown separately.



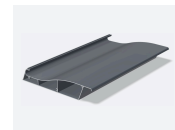
IN THIS DETAIL



BC101
Gutter



BC103
Large add-on



BC107
Roof panel



BC110
200 rail



S08
Large link arm



S09
Small link arm

BC110 rail meeting the gutter; S08 / S09 link arms shown separately.



SKYLIS

Bioclimatic rolling roof system

HEAD OFFICE

MaxiVeranda – Pergola & Glass Systems

Ahmediye Mah. Dr. Fahri Atabey Cad.
Sedef İş Hanı Blok No:18 İç Kapı No:12
34672 Üsküdar / İstanbul, Türkiye

PLANT & WAREHOUSE

İkitelli OSB Eskoop Sanayi Sitesi
A2 Blok No:109-113
Başakşehir / İstanbul, Türkiye

PHONE

+90 212 671 42 33

MOBILE

+90 532 725 06 80

E-MAIL

info@maxiveranda.com.tr

WEB

maxiveranda.com.tr