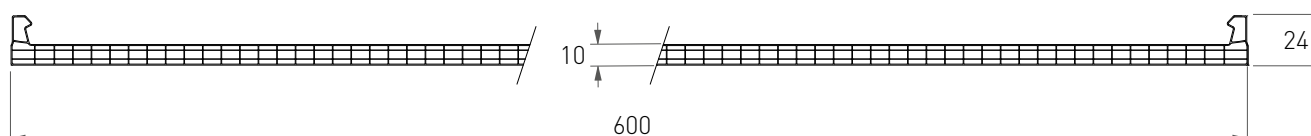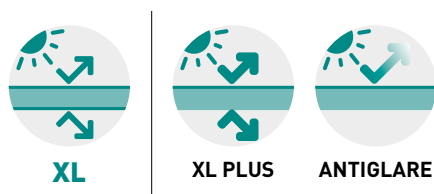## BDL 4W 10 mm

The system **BDL 4W 10 mm** is ideal for the construction of flat and curved roofs. It is characterized by the ease and speed of installation thanks to the complete range of accessories supplied (polycarbonate or aluminium snap-on profiles, specific fixing hooks, EPDM closure gaskets, aluminium fixing profiles, and other completion accessories). The 600 mm width allows easy handling of the panel during the stages of installation, while the 4 walls inner structure combines lightness and transparency The frosted finishing allows a good diffusion of light even without the use of opal colours. The panel is coextruded on both sides, giving ultraviolet protection which ensures the durability and weather resistance of the product over time.

Thickness (mm) **10**

XL   **XL PLUS**   **ANTIGLARE**

10   24   600

BDL 4W 10 mm technical data			
Thickness	10 mm		
Number of walls	4		
Module width	600 mm		
Length	upon request		
Minimum cold bending	2200 mm		
Thermal transmittance	2,60 W/m^2 K		
Colours		LT*	G Value**
	Clear (8005)	76%	68%
	Opal (8121)	48%	51%
UV protection	coextruded on both sides		
Warranty	10-year warranty against hail damage, yellowing, loss of light transmission		
Service temperature	-40°C / +120°C		
Thermal expansion coefficient	0,065 mm/m°C (6,5 x 10^{-5} 1/K)		
Fire certification	EUROCLASS B s1 d0		

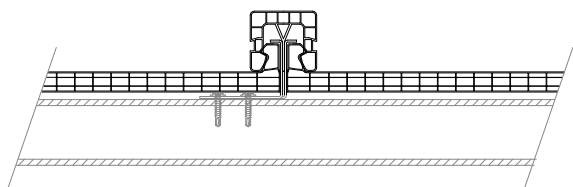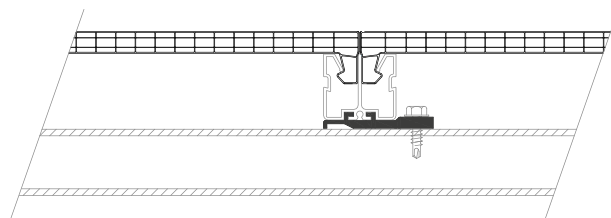*** Values calculated according to ASTM standard.**   **** Values calculated according to internal method.**

BDL 4W 10 mm joining scheme

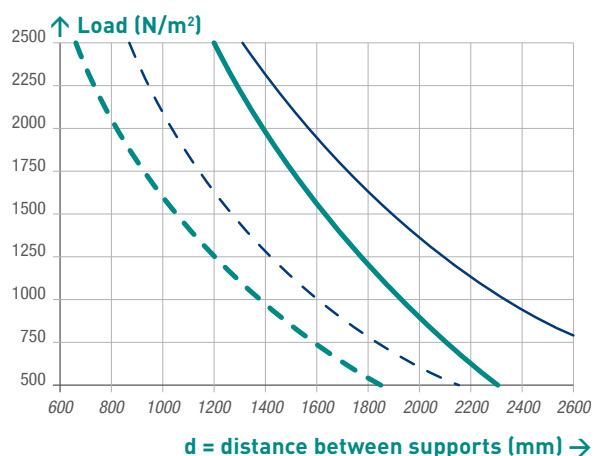- **Section panels joining with polycarbonate snap-on profile**
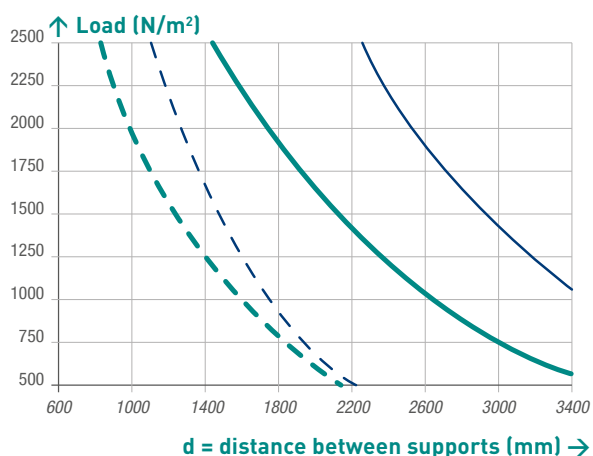
- **Section panels joining with aluminium snap-on profile**

BDL 4W 10 mm load charts

- **Load charts for FLAT solution**

- **Load charts for self-supporting CURVE solution**

↑ Load (N/m²)

Pressure
ALU ————
PC - - - - -

Suction
ALU ————
PC - - - -

d = distance between supports (mm) →

The load tables refer to the breakage load value of the system, i.e. the lowest value between: the collapse of the panel, failure of the frame or the panel springing out of its housing. The designer will check the actual loads acting on the system as well as the coefficients of amplification and safety to be applied in consideration of both the climatic conditions of the site, both the general and particular characteristics of the structure in which the polycarbonate is inserted. For these evaluations, refer to the specific regulations in force in each country. For detailed technical data, or for more information, refer to the Technical Manual or to the Stabilit Suisse Office.

| BDL 4W 10 mm specifications |
|---|
| **Production of translucent roof (flat, curved or curved self-supporting) with BDL 4W 10 mm system consisting of:** |
| Multiwall polycarbonate panel, coextruded UV-protection on both sides, 4 wall structure, 10 mm thickness, thermal transmittance 2,6 W/m² K, clear colour (other colours available on request), adhesive aluminium tape or thermowelded end closures; dimensions: module width 600 mm, length upon request; 10-year warranty. |
| Polycarbonate snap-on profile with coextruded UV protection on the exposed sides or, alternatively, anodized aluminium snap-on profile silver finish (minimum 15 microns). |
| Steel hooks or, alternatively, aluminium hooks. |
| Closure caps for polycarbonate snap-on profiles (in nylon or steel). |
| Perimeter aluminium profiles*****. |
| Aluminium sill profiles* - only for curved self - supporting roofs. |
| ***** : raw or anodized or lacquered, please contact our sales offices to check the standards, the surcharges and the minimum order quantities. |

BDL

FLAT installation options for BDL 4W 10 mm
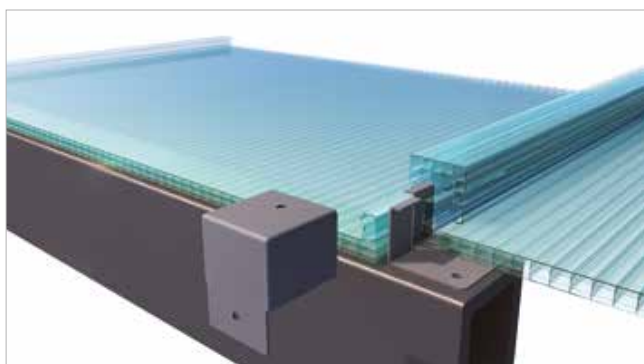
- **Detail of panels fixing with steel fixing hook, polycarbonate snap-on profile and nylon end cap.**
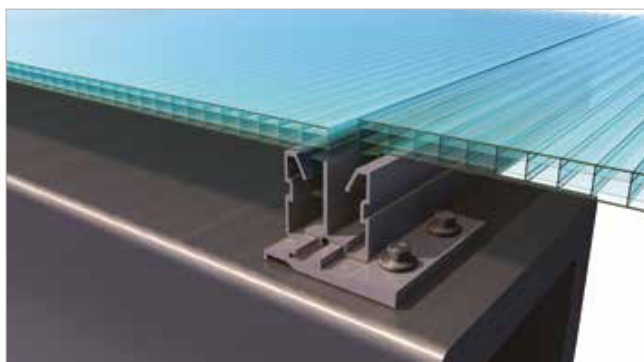
- **Detail of panels fixing with aluminium snap-on profile and aluminium fixing hook.**
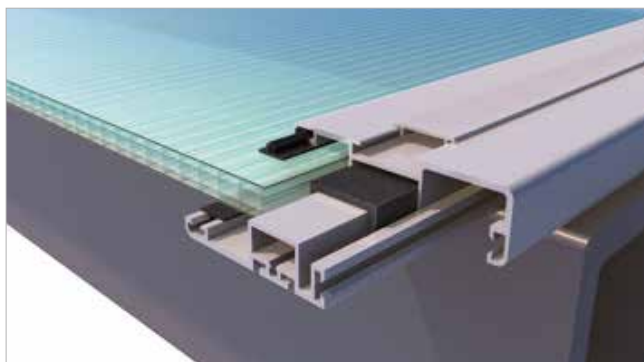
- **Detail of aluminium profile for the finishing of the starting and end point of the roof.**
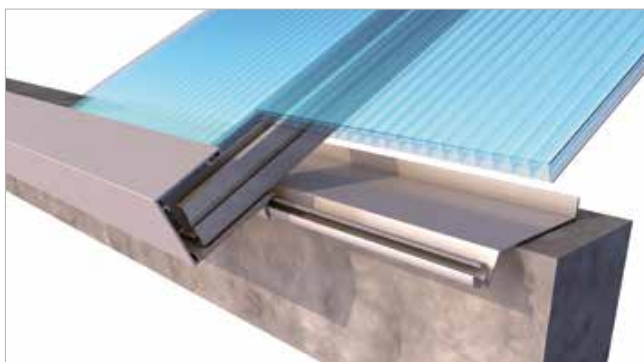
CURVED installation options for - BDL 4W 10 mm
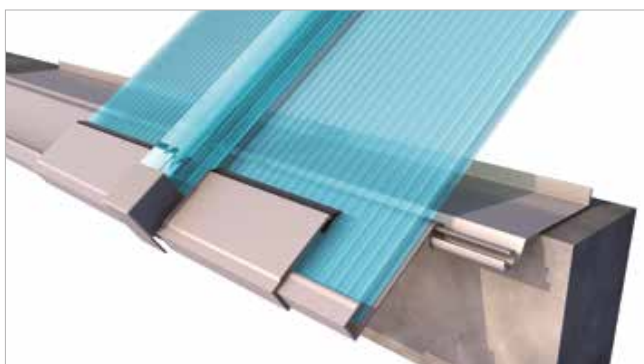
- **Detail of self-supporting roof with polycarbonate snap-on profiles.**
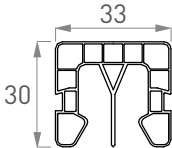
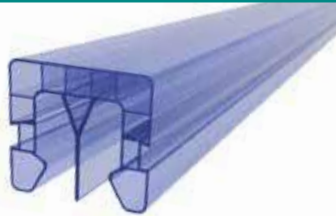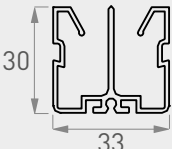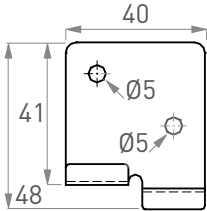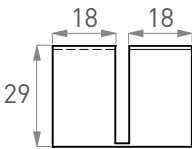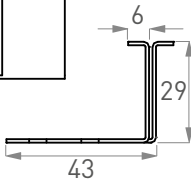- **Detail of self-supporting roof with aluminium snap-on profiles.**
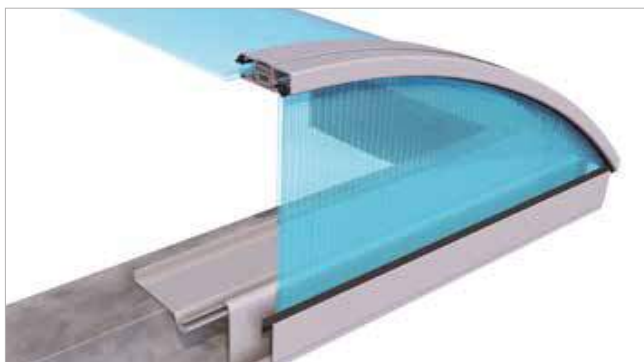
- **Detail of the gable for self-supporting roof.**

BDL 4W 10 mm accessories

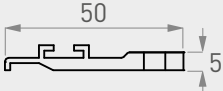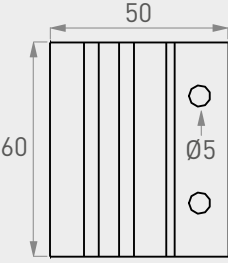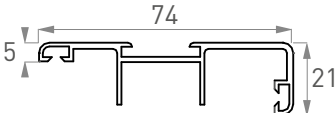| ACCESSORY	CODE	TECHNICAL DESIGN / RENDERING
Polycarbonate snap-on profile	J443	33 / 30
Aluminium snap-on profile	M9RA	30 / 33
Stainless steel hook for J443 profile	M9S2	40 / 41 / 48 / Ø5 / Ø5 / 18 / 18 / 29 / 6 / 29 / 43
Aluminium hook for M9RA profile	M9VH	50 / 5 / 50 / 60 / Ø5

ACCESSORY - CODE
Aluminium upper profile* for gable M9S9 74 / 5 / 21

ACCESSORY - CODE
Aluminium lower profile* for gable M9T0 5 / 13 / 52

BDL 4W 10 mm accessories

ACCESSORY - CODE

Aluminium cap profile*
M9T1
21 — 4

Aluminium reinforcement profile*
M9T2
14 · 30 · 70

Aluminium fixed sill profile*
M9R6
60 · 12 · 93,9 · 27,2

Aluminium revolving sill profile*
M9R7
15 · 16,2 · 84,9

10 mm aluminium panel stop*
M9R4
57,1 · 22,8 · 29,9

Aluminium revolving sill profile*
M9R8
41,1 · 20 · 42 · 47 · 70 · 47,3

ACCESSORY - CODE

Nylon end cap
M9TA
37,4 · 37,2 · 27 · 36 · 47,2 · 47,2

EPDM thermal cut gasket
M9T5

PE spacer
M993 (40x45 mm)
M9G9 (30x40 mm)

EPDM gasket
M926

1 mm EPDM gasket
M9S3

3 mm EPDM gasket
M9S5

Massive aluminium adhesive tape height 38 mm (50 m roll)
M965

Perforated aluminium adhesive tape height 38 mm (50 m roll)
M968

* : raw or anodized or lacquered, please contact our sales offices to check the standards, the surcharges and the minimum order quantities.