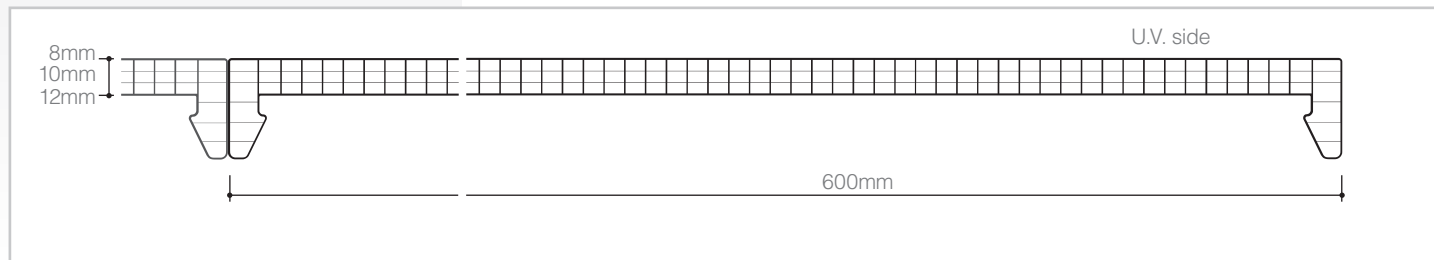


2.2 MODULAR CONNECTOR SYSTEMS

arcoPlus®
 684 | 8mm
 6104 | 10mm
 6124 | 12mm



PROFILE



Modular system of UV protected multiwall polycarbonate for translucent curtain walls and roofing applications



LIGHT MANAGEMENT



PRODUCT AVAILABLE
WITH IR AND AR TREATMENT

PRODUCTION STANDARDS

| | |
|-------------------------|-------------|
| thickness | 8-10-12mm |
| structure | 4 walls |
| effective modular width | 600mm |
| panel length | no limit |
| colours available | see page 11 |

TECHNICAL FEATURES

| | |
|--------------------------|-------------------------------------|
| Thermal insulation | 3,3 - 3,0 - 2,7 W/m ² K |
| Acoustic insulation | 18 dB (th.8-10mm) 19dB (th.12mm) |
| Linear thermal expansion | 0,065mm/m°C |
| Temperature range | -40°C +120 °C |
| U.V. rays protection | Coextrusion |
| Fire reaction EN 13501 | EuroClass B-s1,d0 |

DESCRIPTION

arcoPlus®684-6104-6124 are three modular systems consisting of co-extruded 4 walls polycarbonate panels with thicknesses of 8-10 and 12mm, inserted in plastic-coated steel or aluminium profiles using a click-on system.

Used for vertical windows, flat roofing (min. slope 5%) and curved roofing (minimum radius 2.0m).

ADVANTAGES

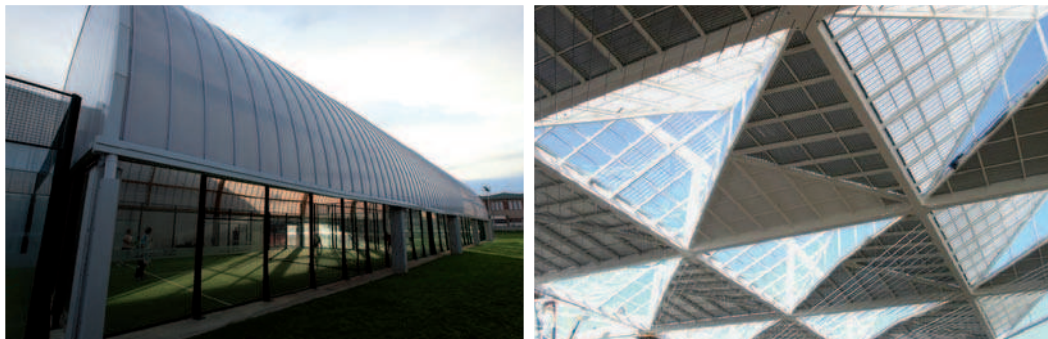
- ❖ Easy and low-cost installation
- ❖ Light transmission
- ❖ Resistance to U.V. rays and to hail
- ❖ Heat insulation
- ❖ Self-supporting

APPLICATIONS

- Vertical windows
- Roofing
- Curved roofing



CONTINUOUS ROOFING
Model of tunnel with reinforced aluminium profil

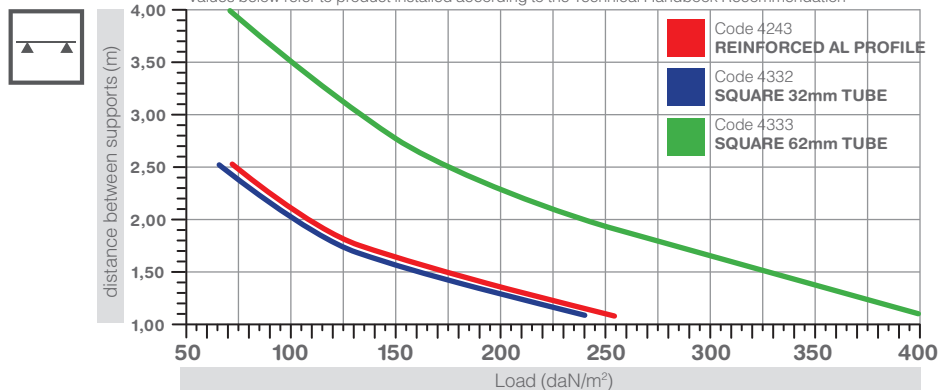


LOAD RESISTANCE



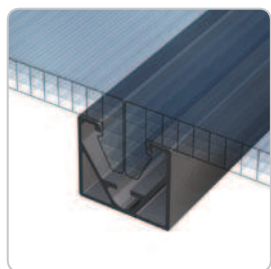
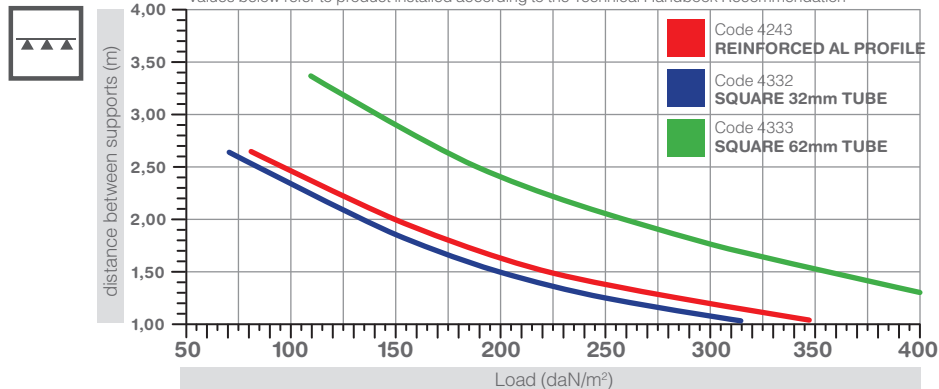
Maximum loads on two supports

Values below refer to product installed according to the Technical Handbook Recommendation

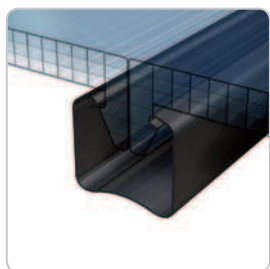


Maximum loads on more supports

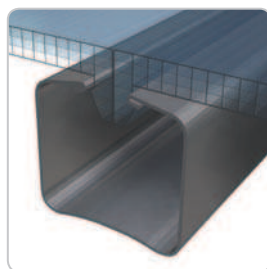
Values below refer to product installed according to the Technical Handbook Recommendation



SYSTEM WITH REINFORCED ALUMINIUM PROFILE



SYSTEM WITH SQUARE 32mm TUBE

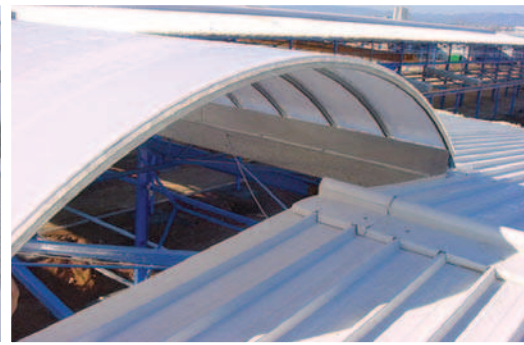


SYSTEM WITH SQUARE 62mm TUBE

FLAT SELF-SUPPORTING SYSTEM

The arcoPlus®684-6104-6124 systems can be used for vertical walls and flat roofing applications. The panels are inserted on open joint metal tubes using a click-on system. This ensures

the necessary wind and snow load resistance properties (see load resistance tables).

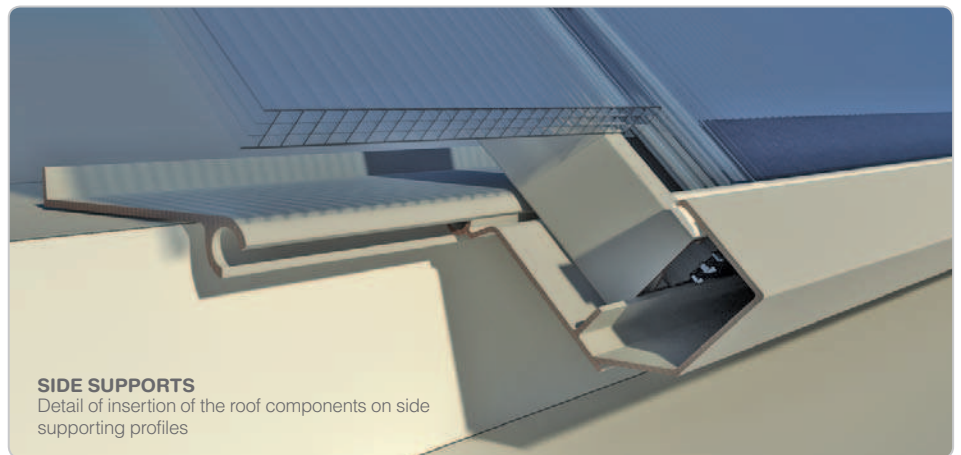
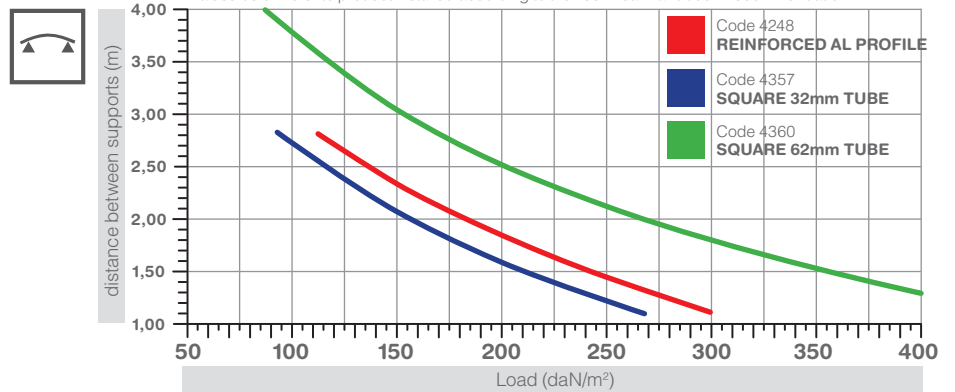


CURVED SYSTEM LOAD RESISTANCE



Maximum loads on two supports R.4.000mm

Values below refer to product installed according to the Technical Handbook Recommendation

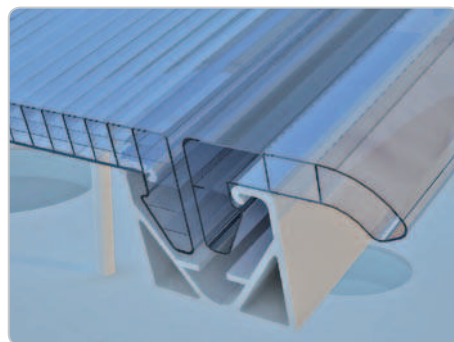


CURVED SELF-SUPPORTING SYSTEM

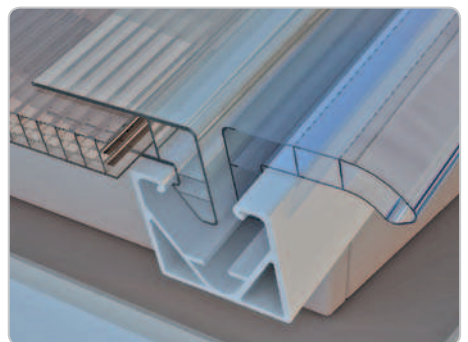
The metal reinforcement frames guarantee the load capacity of the entire system, while the polycarbonate staves create a continuous curtain walling effect. Special adjustable supports guarantee a complete seal.

Different types of reinforcement frames are available to guarantee the required load and wind resistance properties according to the relative load resistance values and conditions of use.

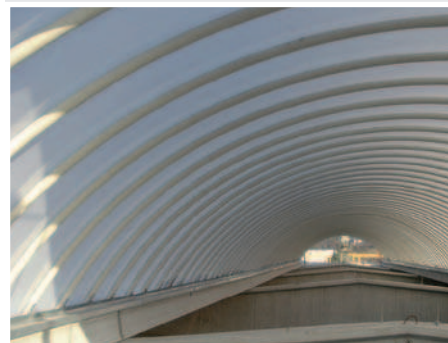
Minimum bend radius R.2.000mm



START PROFILE
Detail of insertion of start profile on roof.



END PROFILE
Detail of insertion of section-breaker profile to complete roofing.

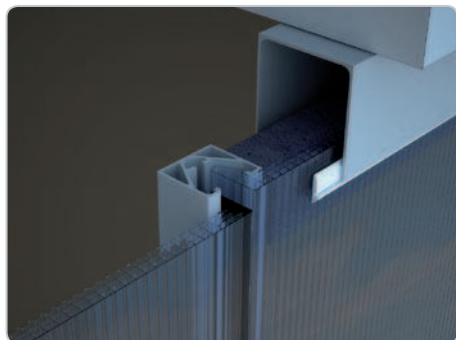


EASY AND LOW-COST INSTALLATION

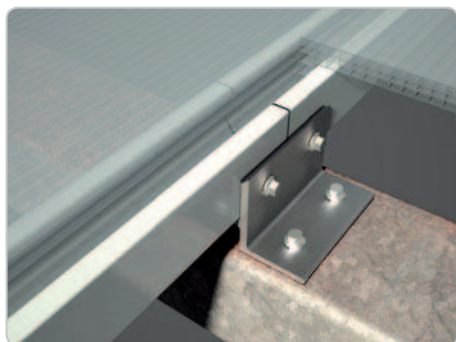
The 4 walls design with click-on connection to open joint tubes gives the panel remarkable flexural strength and is suitable for creating vertical walls and large areas of self-supporting roofing without the use of section-breaker profiles.

ACCESSORIES

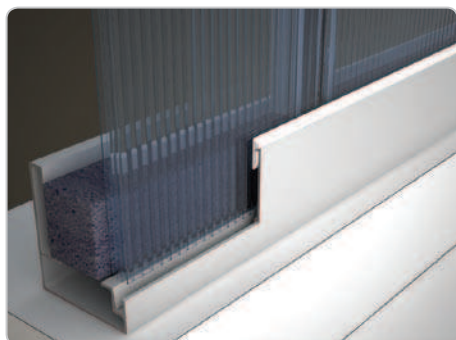
arcoPlus® includes a complete range of accessories that guarantee a perfectly watertight seal and significant wind load resistance.



DETAIL OF UPPER PROFILE
Upper profile with gasket and sealing pad.



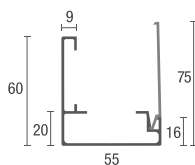
DETAIL FIXING OF ECLYPSE
Detail of the union of the profiles in aluminium with eclipse in aluminium



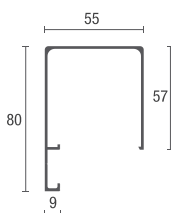
DETAIL OF BASE
Insertion of curtain wall profiles on removable base with front panel.

METAL PROFILES

code 4140
Base AL profile
with frontal opening



code 4045
Upper and side
AL profile



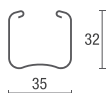
code 4243 (straight)
code 4248 (curved)
Reinforced AL profile



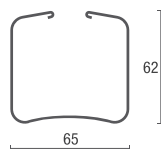
code 4244 (straight)
code 4249 (curved)
Gabled AL profile



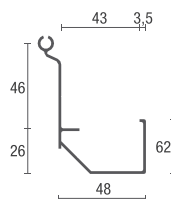
code 4332 (straight)
code 4357 (curved)
Square 32mm tube



code 4333 (straight)
code 4360 (curved)
Square 62mm tube



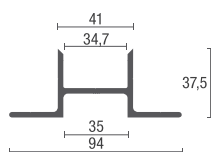
code 4245
U-shaped closing
support in AL



code 4252
closing
support in AL

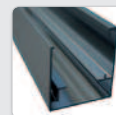


code 4260
Eclipse



4665/600 th.8mm
4666/600 th.10mm
4667/600 th.12mm
Block cover AL profile

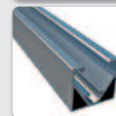
ACCESSORIES



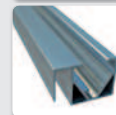
4140
Base AL profile
with frontal opening



4045
Upper and side
AL profile



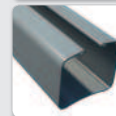
4243 (straight)
4248 (curved)
Reinforced AL profile



4244 (straight)
4249 (curved)
Gabled AL profile



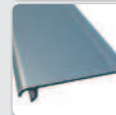
4332 (straight)
4357 (curved)
Square 32mm tube



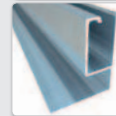
4333 (straight)
4360 (curved)
Square 62mm tube



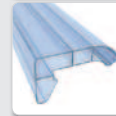
4245
U-shaped closing
support in AL



4252
closing
support in AL



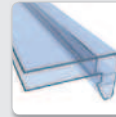
4589
Profilo terminale
in AL



2147
Start profile 684-6104
in polycarbonate
th.8/10mm



2245
Start profile 6124
in polycarbonate
th.12mm



2148 th.8mm
2265 th.10mm
2250 th.12mm
End profile in PC



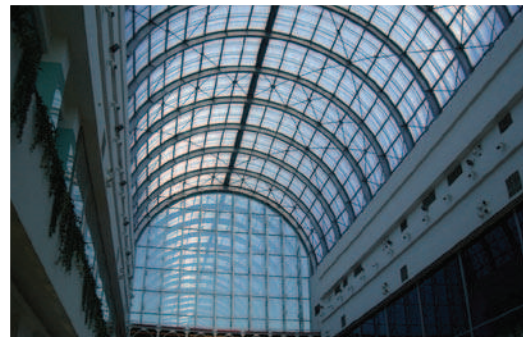
4213 dim. 40x35x580
4221 dim. 70x40x580
Pad PE-LD



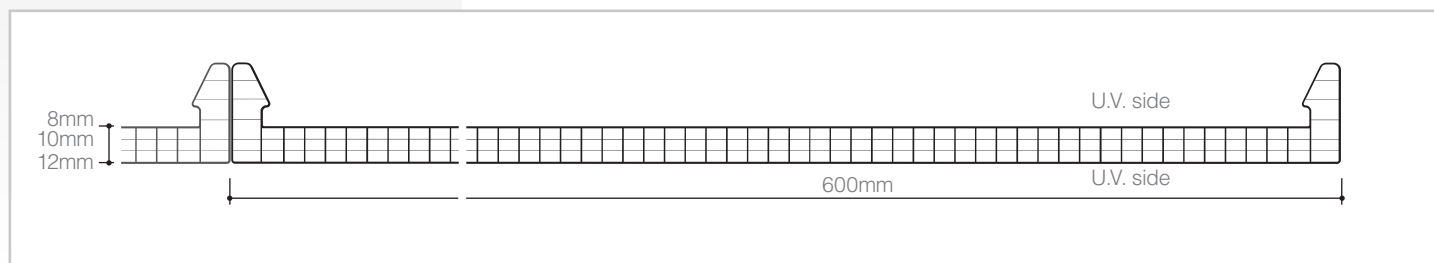
4260
Eclipse

2.2 MODULAR CONNECTOR SYSTEMS

arcoPlus®
Reversò 684|6104|6124
8mm 10mm 12mm



PROFILE



Modular system of bi-protected multiwall polycarbonate for translucent roofing applications

Calido

LIGHT MANAGEMENT



PRODUCT AVAILABLE
WITH IR AND AR TREATMENT

PRODUCTION STANDARDS

| | |
|-------------------------|-------------|
| thickness | 8-10-12mm |
| structure | 4 walls |
| effective modular width | 600mm |
| panel length | no limit |
| colours available | see page 11 |

TECHNICAL FEATURES

| | |
|--------------------------|-------------------------------------|
| Thermal insulation | 3,3 - 3,0 - 2,7 W/m ² K |
| Acoustic insulation | 18 dB (th.8-10mm) 19dB (th.12mm) |
| Linear thermal expansion | 0,065mm/m°C |
| Temperature range | -40°C +120 °C |
| U.V. rays protection | 2 sides Coextrusion |
| Fire reaction EN 13501 | EuroClass B-s1,d0 |

DESCRIPTION

arcoPlus®684-6104-6124 reversò are three modular systems consisting of 4 walls polycarbonate panels with UV protection on two sides and thicknesses of 8-10-12mm. They are anchored to the existing structures using specific anchor brackets. The panels are joined together using a protected polycarbonate or aluminium cover plate profile assembled using a click-on system to guarantee a perfectly watertight seal.

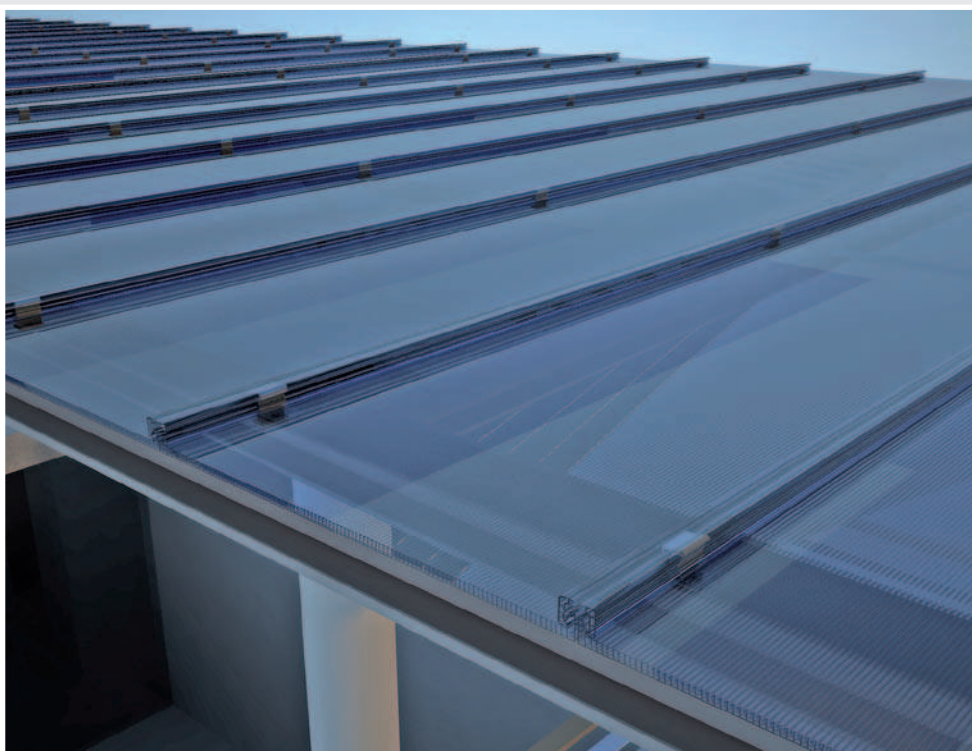
ADVANTAGES

- ❖ Easy and low-cost installation
- ❖ Light transmission
- ❖ Resistance to U.V. rays and to hail
- ❖ Heat insulation
- ❖ Bendability R.min=2,5m

APPLICATIONS

 Roofing

 Curved roofing



CONTINUOUS ROOFING

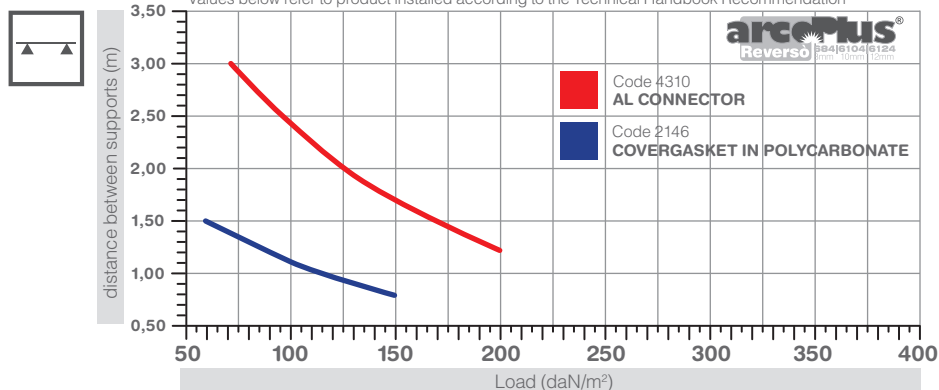
Example of roofing with polycarbonate cover plate.



LOAD RESISTANCE

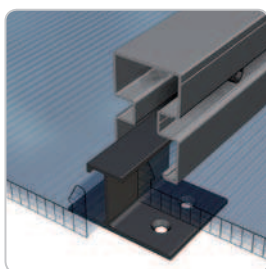
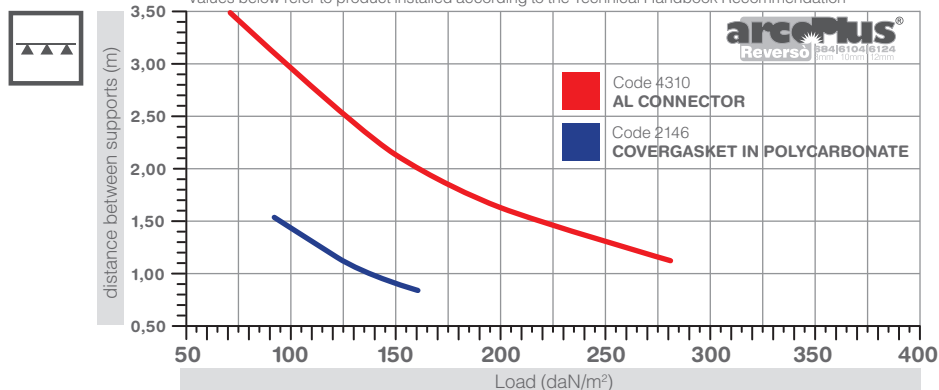
Maximum loads on two supports

Values below refer to product installed according to the Technical Handbook Recommendation

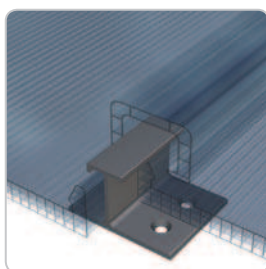


Maximum loads on more supports

Values below refer to product installed according to the Technical Handbook Recommendation



SYSTEM WITH ALUMINIUM CONNECTOR CODE 4310



SYSTEM WITH POLYCARBONATE COVERGASKET - CODE 2146

EASY AND LOW-COST INSTALLATION

To ensure compliance with snow load and negative wind load resistance requirements, anchor brackets should be fitted for each purlin.

The polycarbonate panels are fastened to the underlying structure using specific brackets, which must be anchored to the purlins using suitable self-drilling/self-tapping screws (on metal structures) and tap bolts (for

wooden structures). These screws and bolts are not supplied.

Different connector profiles can be used, depending on the required load specifications.

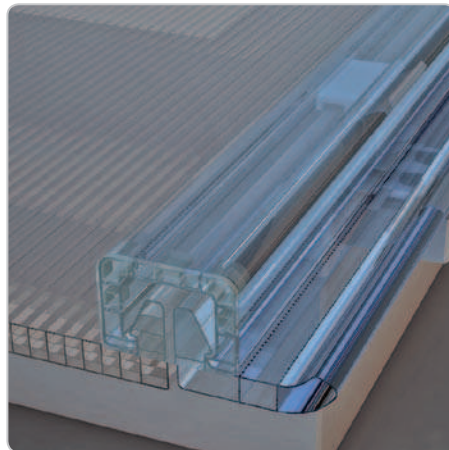


COMPLETE SYSTEM FOR ROOFING

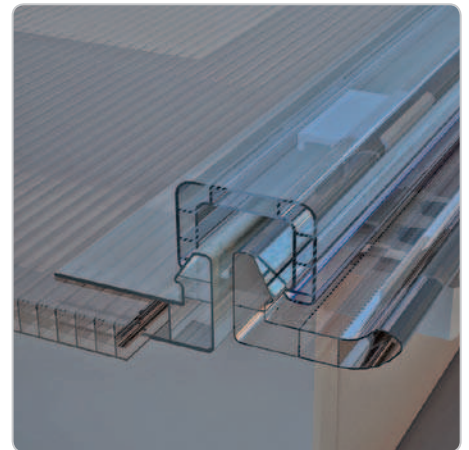
The modular polycarbonate panels can be used to create flat or curved roofing. They are fixed to the supporting structures using specific aluminium brackets.

Depending on the load capacity values required, or the distance between

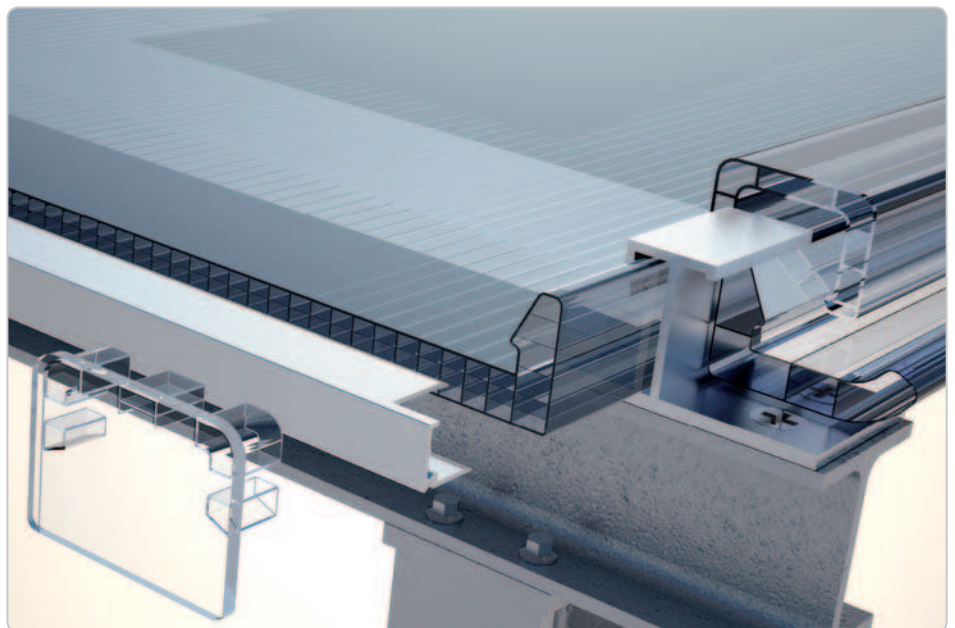
the purlins of the underlying structures, either polycarbonate cover plates can be used or, for greater strength, aluminium connectors.



START PROFILE
Detail of insertion of start profile on roof.



END PROFILE
Detail of insertion of section-breaker profile to complete roofing.

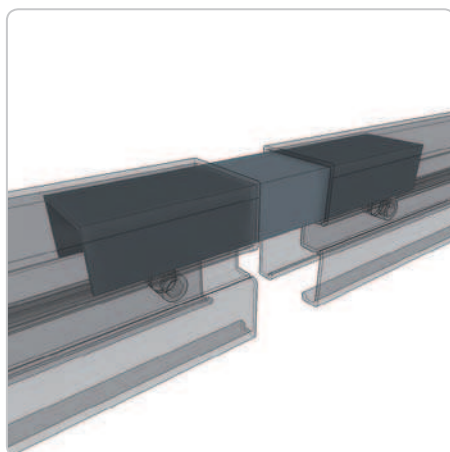


DETAIL OF COMPLETE SYSTEM
Start profile with panel, cover plate, plate and air cell cover profiles.



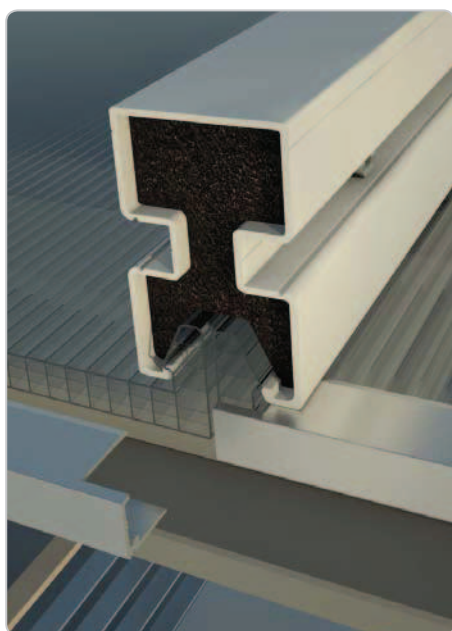
ACCESSORIES

The arcoPlus® system includes a complete range of accessories to facilitate installation. For correct installation the ends of the air cells in the panels must be heat-sealed to prevent soiling on the inside.



CONNECTOR JOINT

AL connector profiles with eclipse.

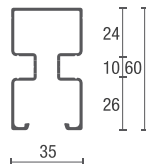


DETAIL OF CONNECTOR

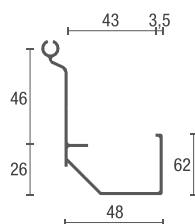
Use of aluminium joint screwed down and end closed with PE-LD pad.

METAL PROFILES

code 4310
Connector AL
profile with screw



code 4245
U-shaped closing
support in AL



code 4252
Closing
support in AL



4213 dim. 40x35x580

4221 dim. 70x40x580
Pad PE-LD



4318

Pad PE-LD
for connector



4329

Sealing tape PE-LD
4x15mm



4316 M6 nut

4315 M6 x 20 screw

Accessories for connector

ACCESSORIES



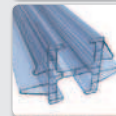
4303

Covergasket
stopper



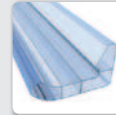
2146

Covergasket
in polycarbonate



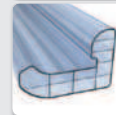
2282

Double connector
in polycarbonate



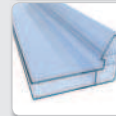
2147

Start profile 684-6104
in polycarbonate



2245

Start profile 6124
in polycarbonate



2148 th.8mm

2265 th.10mm

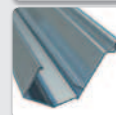
2250 th.12mm

End profile in PC



4310

Connector AL
profile with screw



4245

U-shaped closing
support in AL



4252

closing
support in AL



4319/200

AL eclipse
for connector



4326 th.8mm

4350 th.10mm

4355 th.12mm

AL plate



4264

Stainless steel plate
for vertical connection



4138

Stainless steel plate
for flat connection
(th.8mm)



4675/600 th.8mm

4676/600 th.10mm

4677/600 th.12mm

Block cover AL profile