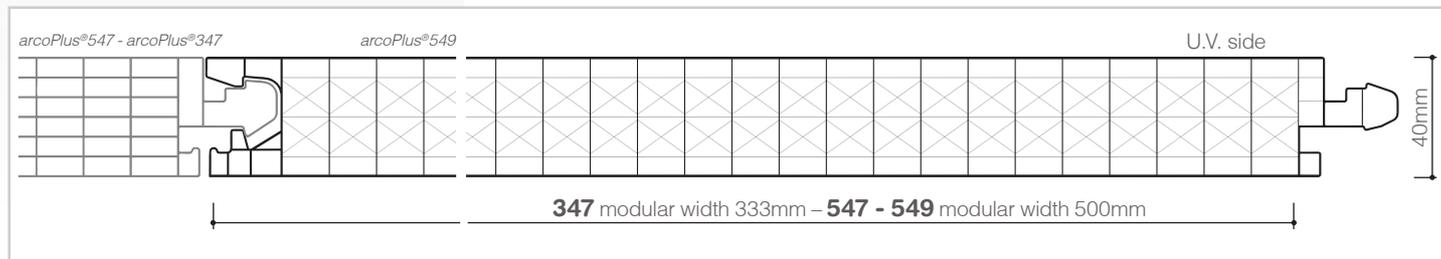


2.1 INTERLOCKING SYSTEMS

arcoPlus®
347 547-549



PROFILE



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

PRODUCTION STANDARDS

Thickness	40mm
Structure	7 walls - 9 walls
Modular width	333mm (347)–500mm (547-549)
Panel length	no limit
Colours available	see page 11

TECHNICAL FEATURES

Thermal insulation	1,1 (347-547) - 1,0 (549) W/m²K
Acoustic insulation	21 dB
Linear thermal expansion	0,065mm/m°C
Temperature range	-40°C +120 °C
U.V. rays protection	Coextrusion
Fire reaction EN 13501-1	EuroClass B-s1,d0

DESCRIPTION

arcoPlus®547 and arcoPlus®549 are modular systems of coextruded 7 walls and 9 walls polycarbonate panels with a thickness of 40mm, aluminium profiles, accessories and opening windows, designed for simple and versatile use.

All the systems can be used for roofing applications with a minimum slope of 7%.



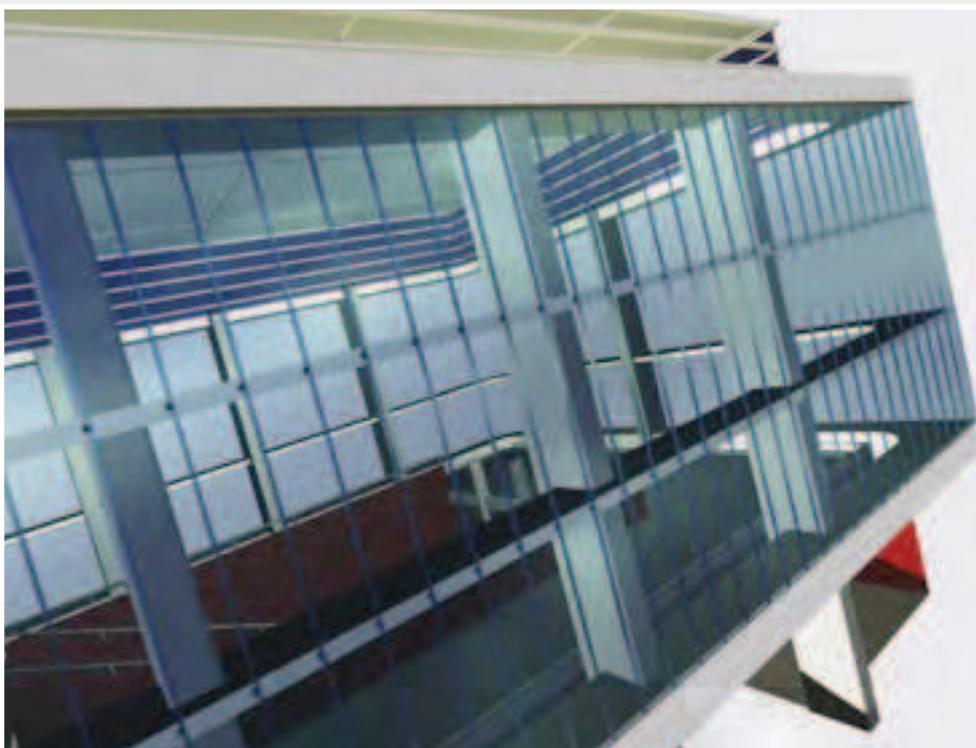
SPECIAL TREATMENT

ADVANTAGES

- ❖ Easy and low-cost installation
- ❖ Light transmission
- ❖ Resistance to U.V. rays and to hail
- ❖ Heat insulation
- ❖ High load resistance

APPLICATIONS

-  Vertical windows
-  Roofing

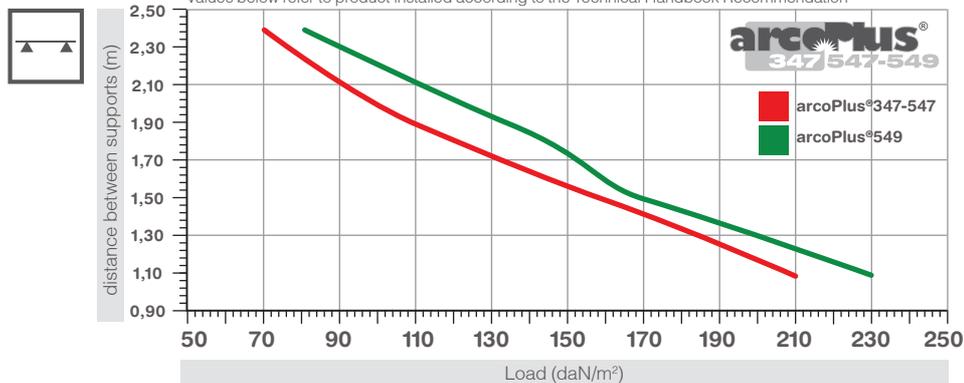




LOAD RESISTANCE

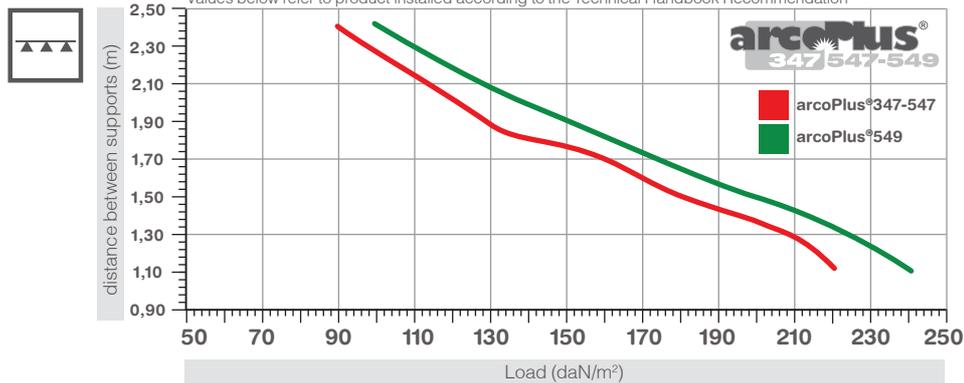
Maximum loads on two supports

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



EASY AND LOW-COST INSTALLATION

The 40mm-thick, 7 walls and 9 walls design with tongue and groove connection gives the panels remarkable flexural strength. It also allows the panels to be installed without the use of metal reinforcement frames (continuous glazing), thus eliminating heat loss due to the thermal bridges caused by these structures (discontinuous glazing).

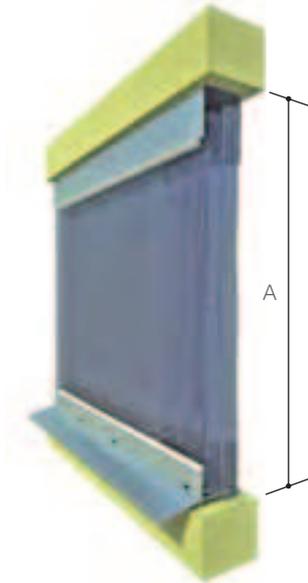
For installations exceeding 2.2m, a suitable section-breaker profile must be installed to which the arcoPlus[®] panels can then be fixed. This is done using the specific brackets to give the system the necessary resistance to negative wind load and permit sliding due to thermal expansion (see load resistance graph).



PROFILES

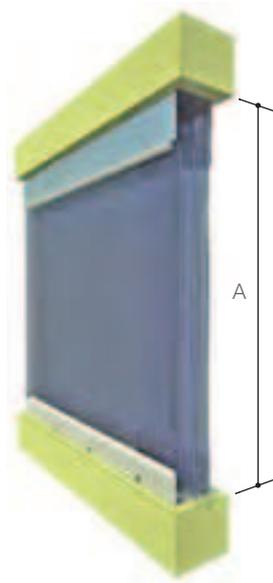


**CALCULATION AND INSTALLATION
EXAMPLES OF PANEL LENGTH (PL)**



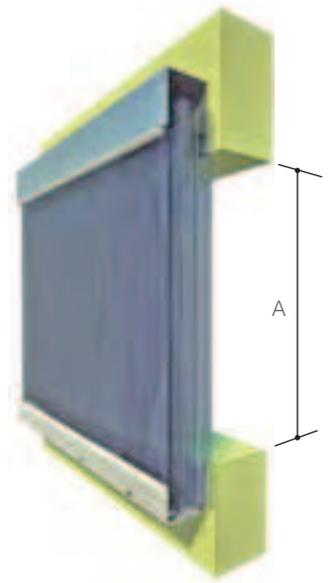
**WITH
EAVE**

LP = A - 50 mm
(base profile without TT)
LP = A - 70 mm
(base profile with TT)
A = opening measure



**WITHOUT
EAVE**

LP = A - 45 mm
(base profile without TT)
LP = A - 60 mm
(base profile with TT)
A = opening measure



**OUTSIDE OF
THE BUILDING**

LP = A + 95 mm
A = opening measure



ALUMINUM BRACKET JOINT

Anchorage to existing structures by inserting aluminum bracket



REINFORCED ALUMINUM BRACKET JOINT

Anchorage to existing structures by inserting aluminum bracket

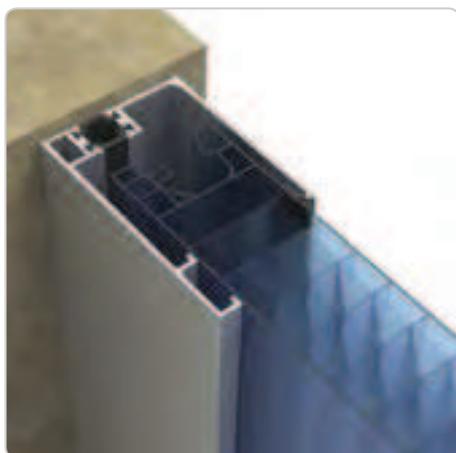


ACCESSORIES

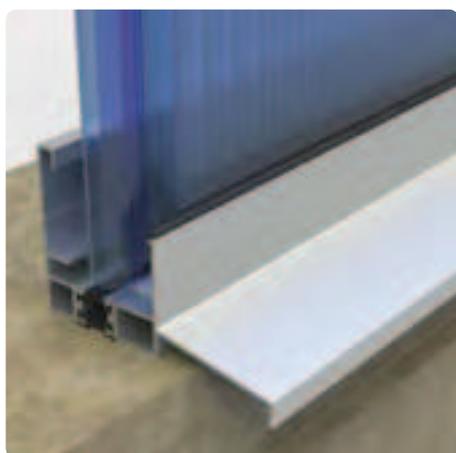
In addition to a complete range of aluminium profiles (also available as thermally insulated) for installing the panels, the system also includes opening windows (manually operated or motorised) to ventilate the building.

The air cells of the polycarbonate panels must be sealed using vented aluminium breather tape.

This allows correct ventilation and prevents soiling on the inside.



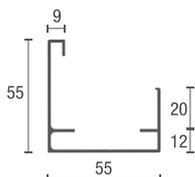
SIDE PROFILE
Detail side profile TT in AL



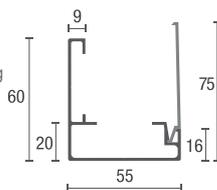
BASE PROFILE WITH TT
Detail base profile TT with eave in AL

METAL PROFILES

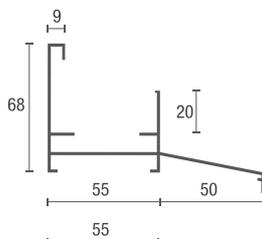
code 4047
Base AL profile



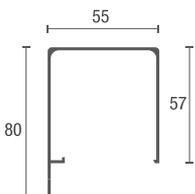
code 4140
Base AL profile
with frontal opening



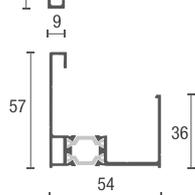
code 4046
Base AL profile
with eave



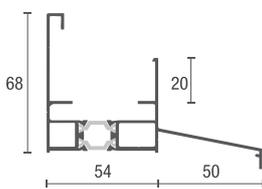
code 4045
Upper and side
AL profile



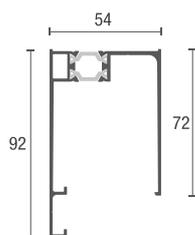
code 4587
Base profile TT
in AL



code 4590
Base profile TT
with eave in AL



code 4585
Upper and side
profile TT in AL



ACCESSORIES



4047
Base AL profile



4046
Base AL profile
with eave



4140
Base AL profile
with frontal opening



4045
Upper and side
AL profile



4587
Base profile TT
in AL



4590
Base profile TT
with eave in AL



4585
Upper and side profile
TT in AL



4050
Aluminium bracket



4050/B
Aluminium bracket



4052
Inox bracket



4312
Eclipse



1169/B
Slip Coat Gasket



4108
Additional sealing tape