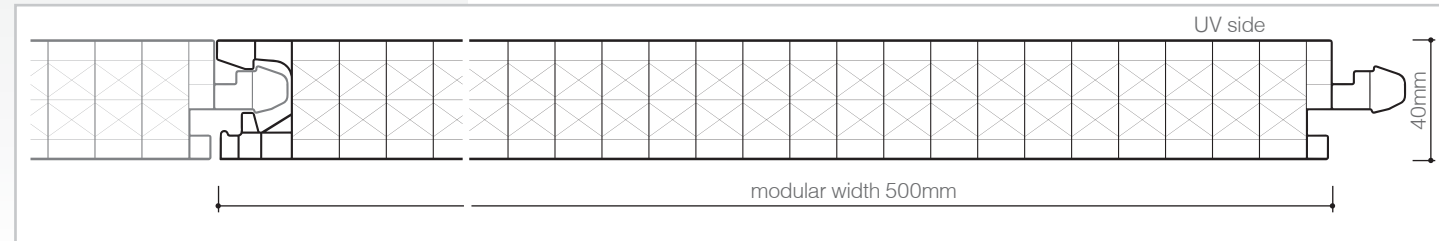


INTERLOCKING SYSTEMS

arcoPlus®
549



PROFILE



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



PRODUCT AVAILABLE WITH IR AND AR TREATMENT

PRODUCTION STANDARDS

Thickness	40mm
Structure	9 walls
Modular width	500mm
Panel length	no limit

TECHNICAL FEATURES

Thermal insulation	1,0 W/m²K
Acoustic insulation	22 dB
Linear thermal expansion	0,065mm/m°C
Temperature range	-40°C +120 °C
UV rays protection	Coextrusion
Fire reaction EN 13501	EuroClass B-s1,d0

DESCRIPTION

arcoPlus®549 is a modular system of coextruded 9 walls polycarbonate panels with a thickness of 40mm, aluminum profiles, accessories, and opening windows, designed for simple and versatile use. arcoPlus®549 can be used for roofing applications with a minimum slope of 7%.

ADVANTAGES

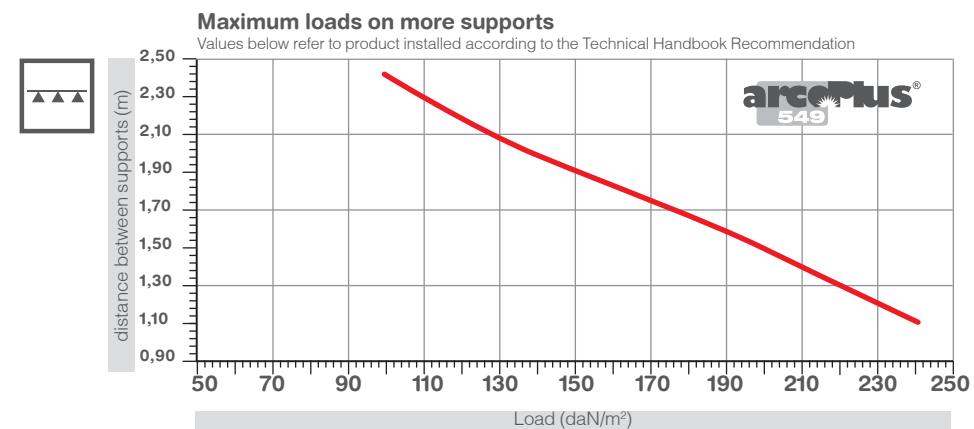
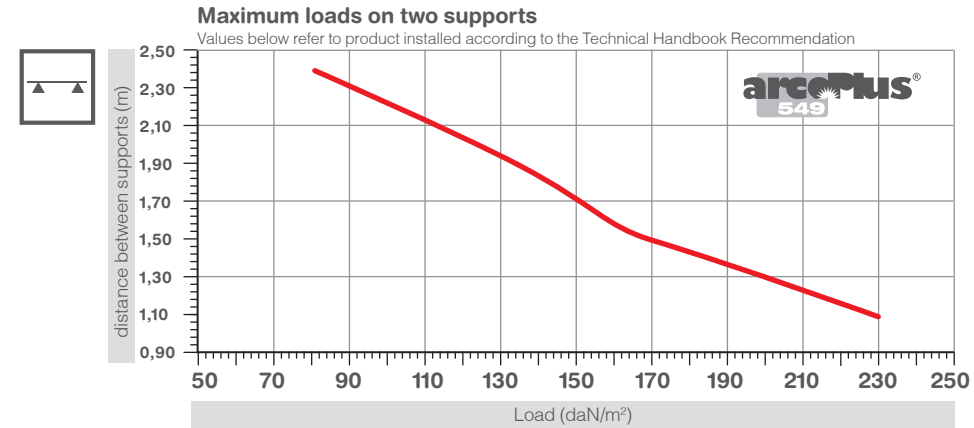
- ❖ Easy and low-cost installation
- ❖ Light transmission
- ❖ Resistance to UV rays and to hail
- ❖ Heat insulation
- ❖ High load resistance

APPLICATIONS

- ▣ High-performance windows
- ▣ Vertical translucent walls
- ▣ Roofing



LOAD RESISTANCE



EASY AND LOW-COST INSTALLATION

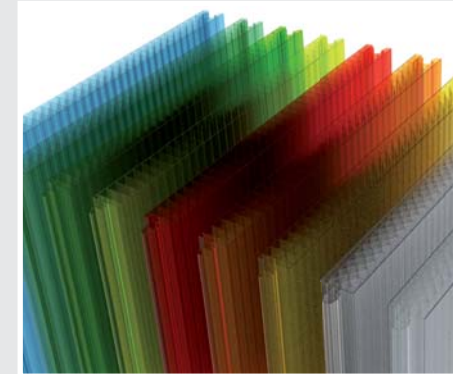
The 40mm-thick, 9 walls design with tongue and groove connection gives the panels remarkable flexural strength. It also allows the panels to be installed without the use of metal reinforcement frames (continuous glazing), thus eliminating heat loss due to the thermal bridges caused by these structures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

For installations exceeding 2.2m, a suitable section-breaker profile must be installed to which the arcoPlus® panels can then be fixed.

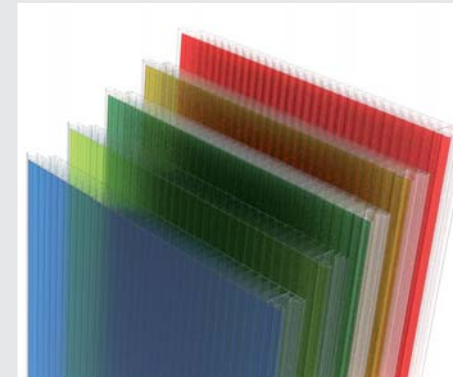
This is done using specific brackets to give the system the necessary resistance to negative wind load and permit sliding due to thermal expansion (see load resistance graph).



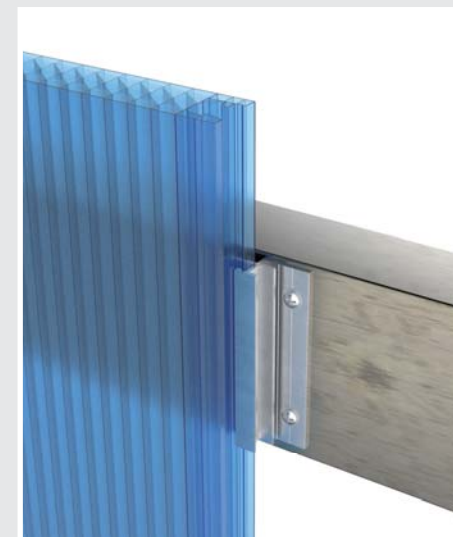
ALUMINUM BRACKET JOINT
Anchorage to existing structures by inserting aluminum bracket



LIGHT MANAGEMENT
Translucent colors available with the possibility to modulate light and color according to customers' needs



DUAL COLOR SYSTEM
The new dual color extrusion technology allows the replication of particular indoor settings by regulating light transmission



REINFORCED ALUMINUM BRACKET JOINT
Anchorage to existing structures by inserting aluminum bracket



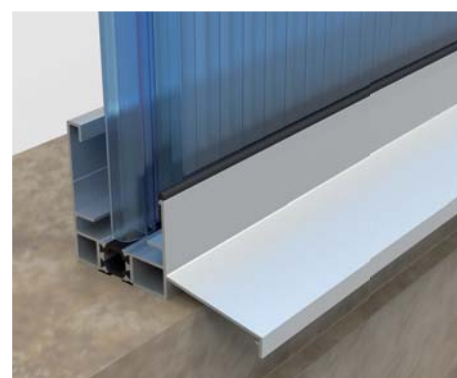
ACCESSORIES

In addition to a complete range of aluminum profiles for installing the panels, the system also includes opening windows (manually operated or motorized) to ventilate the building.

The air cells of the polycarbonate panels are sealed using vented aluminum tape, which allows correct ventilation and prevents soiling on the inside of the panels.



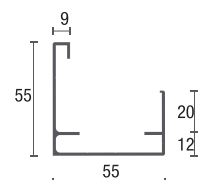
SIDE PROFILE
Detail of side aluminum profile with thermal break



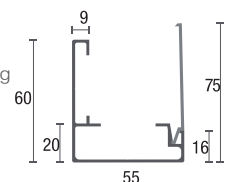
BASE PROFILE WITH THERMAL BREAK
Detail base aluminum profile with thermal break with eave

METAL PROFILES

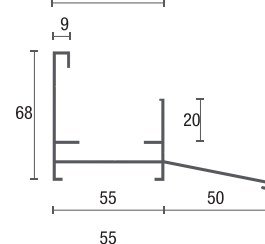
code 4047
Base AL profile



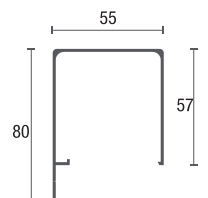
code 4140
Base AL profile with frontal opening



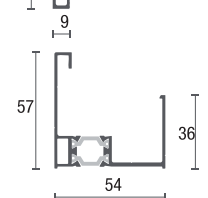
code 4046
Base AL profile with eave



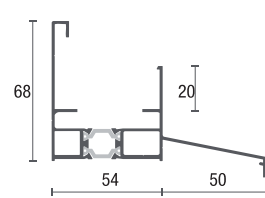
code 4045
Upper and side AL profile



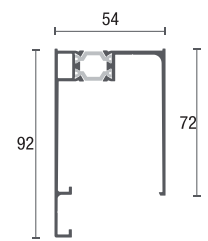
code 4587
Base AL profile with thermal break



code 4590
Base AL profile with eave with thermal break



code 4585
Upper and side AL profile with thermal break



ACCESSORIES



4047
Base AL profile



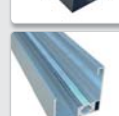
4046
Base AL profile with eave



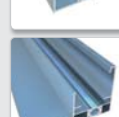
4140
Base AL profile with frontal opening



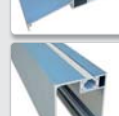
4045
Upper and side AL profile



4587
Base AL profile with thermal break



4590
Base AL profile with eave with thermal break



4585
Upper and side AL profile with thermal break



4050
Aluminium bracket



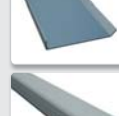
4050/B
Reinforced Aluminium bracket



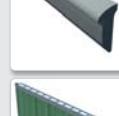
4052
Inox bracket



4312
Eclipse



1169/B
Slip Coat Gasket



4108
Additional sealing tape

arcoPlus
549

MODULAR SYSTEM OF MULTIWALL POLYCARBONATE



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Polycarbonate