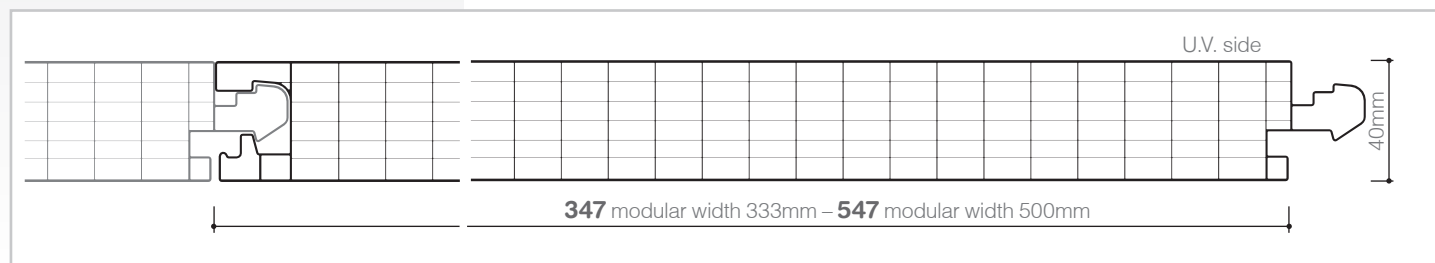


## 2.1 INTERLOCKING SYSTEMS

**arcoPlus®**  
347 333mm  
547 500mm



### PROFILE



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



LIGHT MANAGEMENT



PRODUCT AVAILABLE  
WITH IR AND AR TREATMENT

### PRODUCTION STANDARDS

thickness	40mm
structure	7 walls
modular width	333mm (347)–500mm (547)
panel length	no limit
colours available	see page 11

### TECHNICAL FEATURES

Thermal insulation	1,1 W/m <sup>2</sup> K
Acoustic insulation	22 dB
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®547 is a modular system of coextruded 7 walls polycarbonate panels with a thickness of 40mm, aluminium profiles, accessories and opening windows, designed for simple and versatile use.

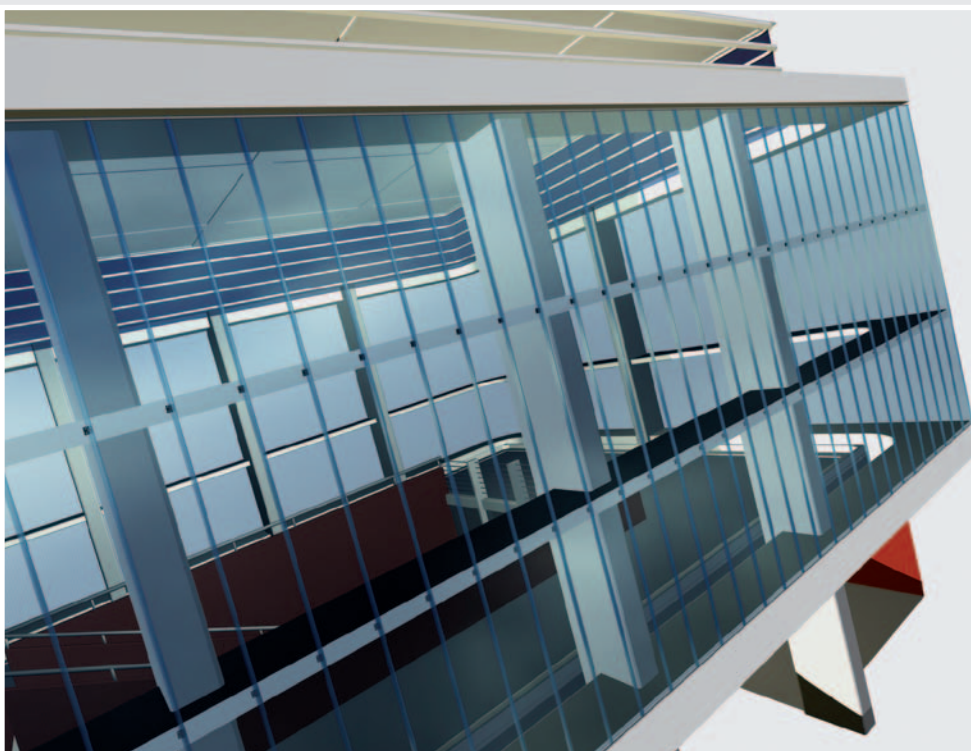
arcoPlus®547 can be used for roofing applications with a minimum slope of 7%.

### 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

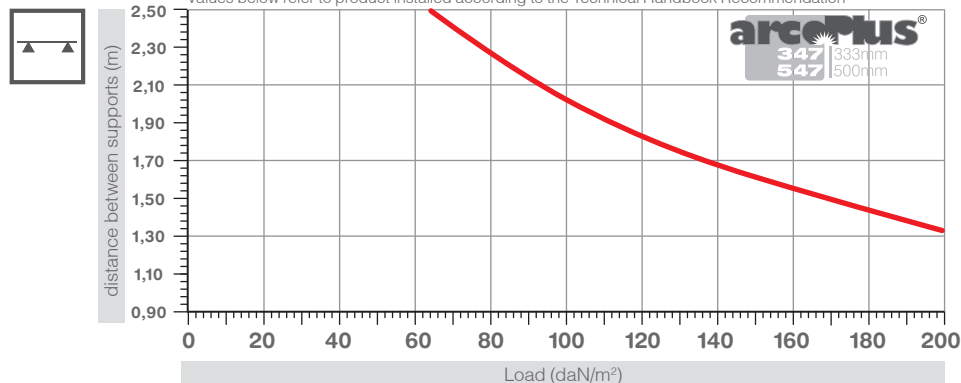




## LOAD RESISTANCE

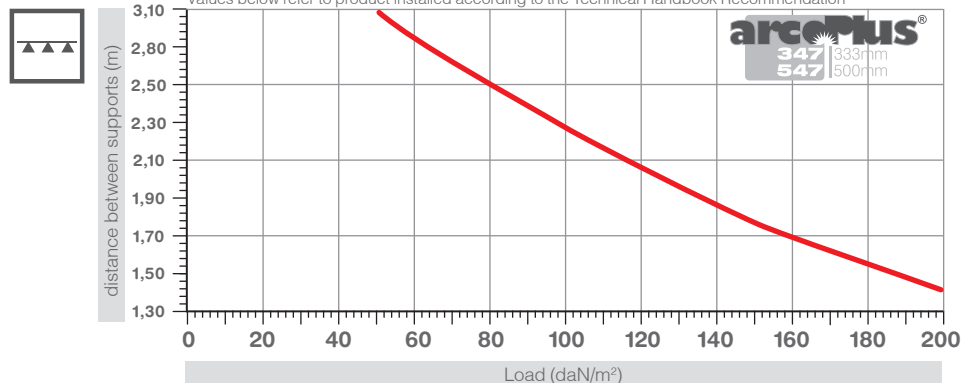
### Maximum loads on two supports

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



### Maximum loads on more supports

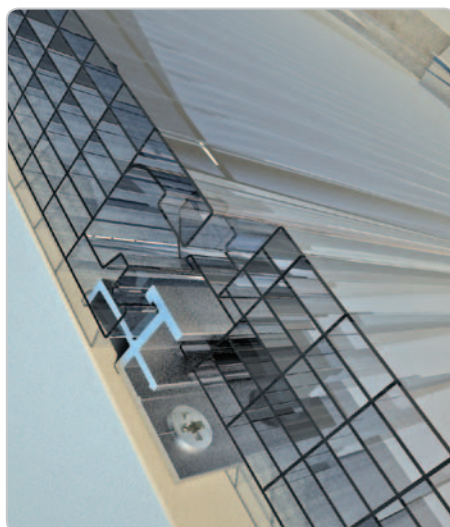
Values below refer to product installed according to the Technical Handbook Recommendation



## EASY AND LOW-COST INSTALLATION

The 40mm-thick, 7 walls 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).

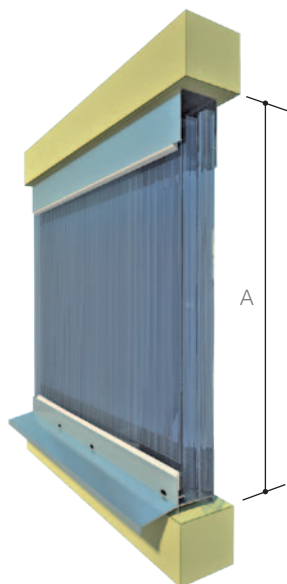
For installations exceeding 2.2m, a suitable section-breaker profile must be installed to which the arcoPlus® panels can then be fixed. This is done using the specific brackets to give the system the necessary resistance to negative wind load and permit sliding due to thermal expansion (see load resistance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



**INSERTION OF PLATE**  
Insertion of aluminium plates for anchorage to existing structures.

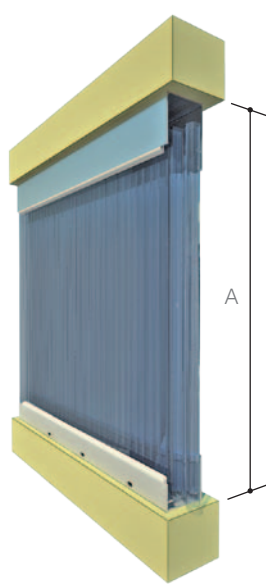


## CALCULATION AND INSTALLATION EXAMPLES OF PANEL LENGTH (PL)



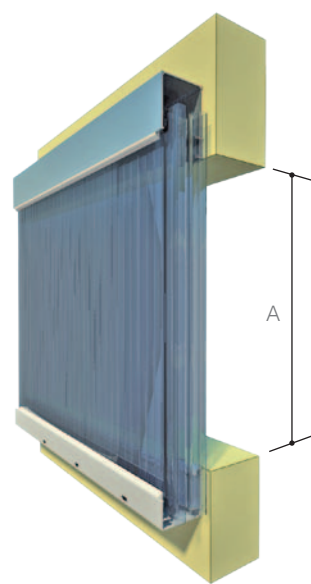
### WITH EAVE

$LP = A - 50 \text{ mm}$   
 (base profile without TT)  
 $LP = A - 65 \text{ mm}$   
 (base profile with TT)  
 A = opening measure



### WITHOUT EAVE

$LP = A - 45 \text{ mm}$   
 (base profile without TT)  
 $LP = A - 60 \text{ mm}$   
 (base profile with TT)  
 A = opening measure



### OUTSIDE OF THE BUILDING

$LP = A + 95 \text{ mm}$   
 A = opening measure



## TRANSLUCENT CURTAIN WALLS

Realization vertical translucent curtain walls



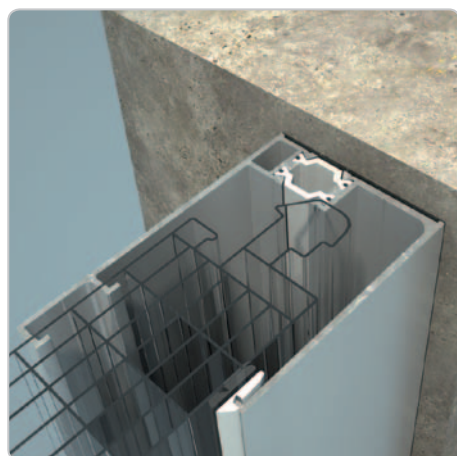


## ACCESSORIES

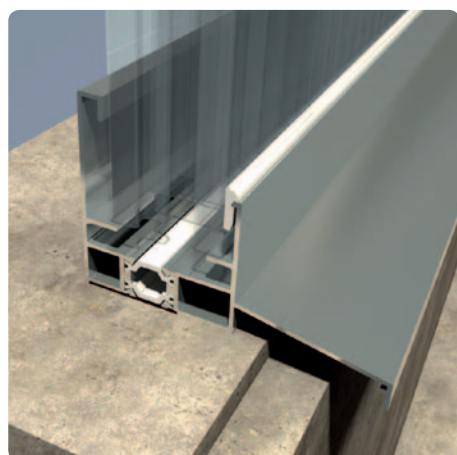
In addition to a complete range of aluminium profiles (also available as thermally insulated) for installing the panels, the system also includes opening windows (manually operated or motorised) to ventilate the building (see opening systems on page 70).

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.



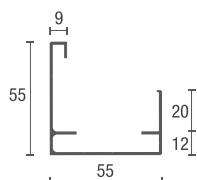
**SIDE PROFILE**  
Detail side profile TT in AL



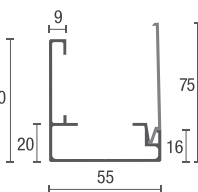
**BASE PROFILE WITH TT**  
Detail base profile TT with eave in AL

## METAL PROFILES

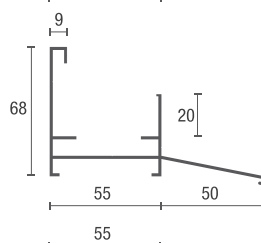
code 4047  
Base AL profile



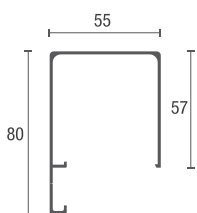
code 4140  
Base AL profile  
with frontal opening



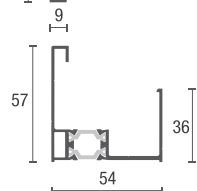
code 4046  
Base AL profile  
with eave



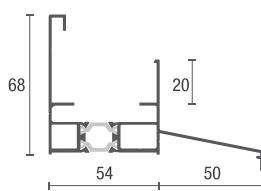
code 4045  
Upper and side  
AL profile



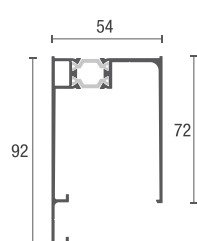
code 4587  
Base profile TT  
in AL



code 4590  
Base profile TT  
with eave in AL



code 4585  
Upper and side  
profile TT in AL



## ACCESSORIES



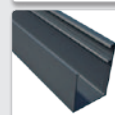
**4047**  
Base AL profile



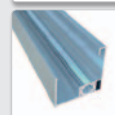
**4046**  
Base AL profile  
with eave



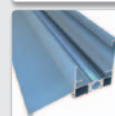
**4140**  
Base AL profile  
with frontal opening



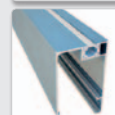
**4045**  
Upper and side  
AL profile



**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



**4052**  
Inox bracket



**4312**  
Eclipse



**1169/B**  
Slip Coat Gasket



**4108**  
Additional sealing tape