

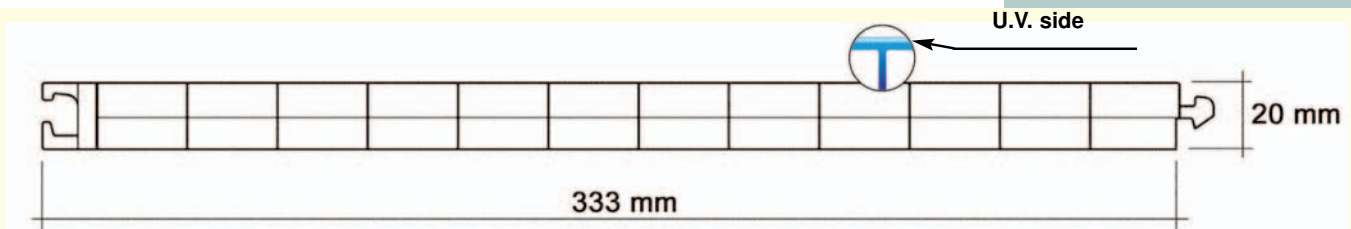
arcoPlus® 323

Modular panels of U.V. protected multiwall polycarbonate for insulated translucent windows

arcoPlus®323, is a modular system of 20mm thick triple wall coextruded polycarbonate panels, accessories and opening windows, designed for simple and versatile use. arcoPlus®323 is not suitable for roofing purposes.



The arcoPlus®323 system has been awarded: "AVIS TECHNIQUE - nr.2/01-877 by CSTB"



SPECIFICATIONS

Vertical transparent walls composed of modular multiwall coextruded polycarbonate panels (U.V. protected on the outside), 20 mm thick on the entire section. Thermal transmission coefficient $K=2,3$ W/m^2K , obtained through air chambers inside the panel (minimum 2).

| COLOUR | cod. |
|---------------|-----------|
| arcoPlus®323 | |
| Satin Crystal | 2115/5028 |
| Satin Bronze | 2115/5024 |
| Satin Opal | 2115/5015 |

PRODUCTION STANDARDS

| | |
|---------------|-----------------|
| Thickness | 20 mm / 11/16" |
| Structure | Triple wall |
| Modular Width | 333 mm / 13.11" |
| Panel Length | No limits |

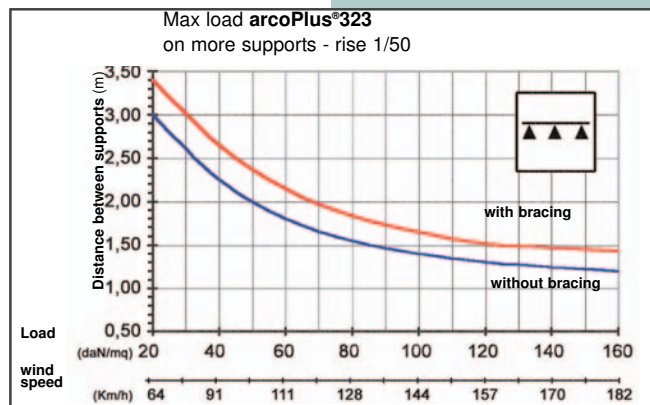
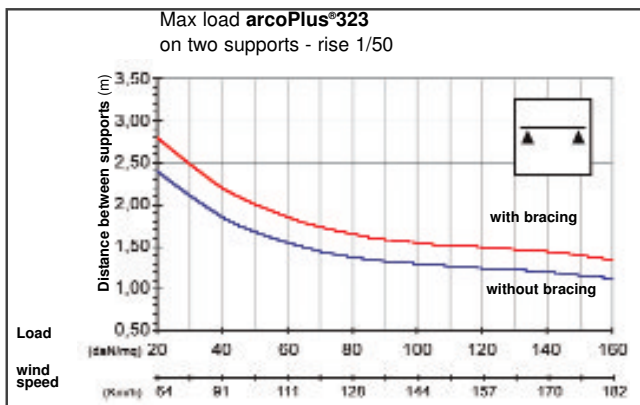
TECHNICAL FEATURES

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------|
| Thermal transmittance | U=0.404; R= 2.48 | | |
| Acoustic insulation power | 14 dB | | |
| Linear thermal expansion | 1/8" per 3' per 100°F | | |
| Temperature range | -40°F +248°F | | |
| UV rays protection | COEXTRUSION | | |
| Fire reaction | ASTM D-635-98: ZERO (0) | | |
| Colour | Light transmission (direct light) | Light transmission (Indirect light) | Solar factor |
| Satin Crystal | 78 % | 76 % | 76 % |
| Satin Green | 70 % | 67 % | 67 % |
| Satin Bronze | 65 % | 58 % | 63 % |

"ADVANTAGES"

- EASY AND LOW-COST INSTALLATION
- LIGHT TRANSMISSION
- SOLAR FACTOR
- RESISTANCE TO UV RAYS AND TO HAIL
- HEAT INSULATION
- HIGH LOAD RESISTANCE
(See section "general characteristic of product" page 6/7)

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



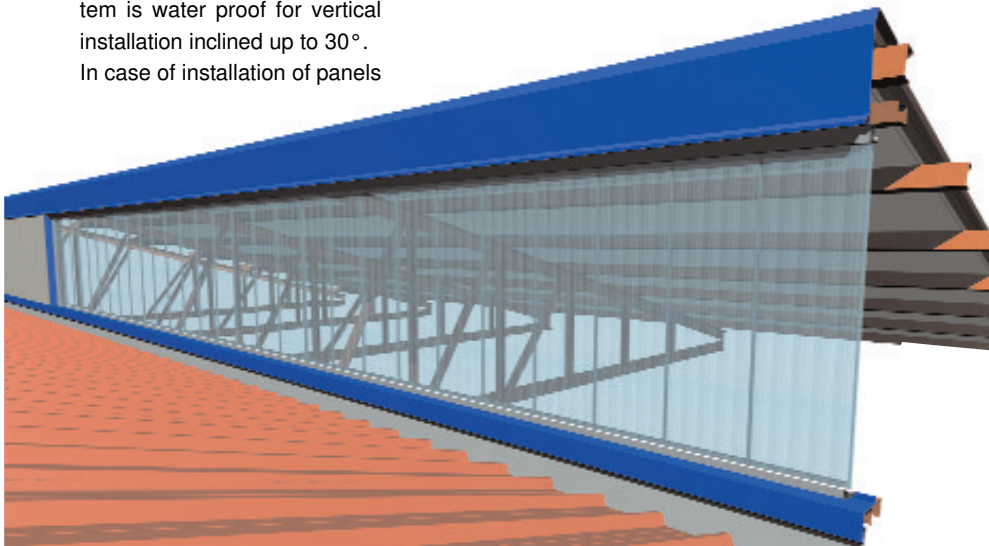
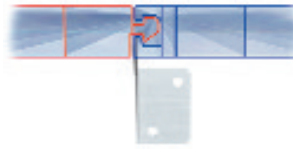
EASY AND LOW-COST INSTALLATION

Triple wall structure with "tongue and groove" connection and 20mm thickness give panels remarkable bending resistance, and allows for panel set up without a metal reinforcing frame (continuous windows) in order to eliminate the heat loss due to thermal bridges caused by the structure frames (discontinuous windows).

The modular connection system is water proof for vertical installation inclined up to 30°. In case of installation of panels

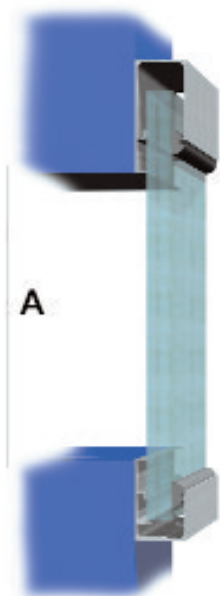
longer than 1,5m, galvanized steel reinforcing bars are inserted into the panel in the joint area. In case of panels longer than 1,8m, it is necessary to put a section-breaker profile on which arcoPlus® panels are to be fixed by means of hooks, to give them resistance to pressure and loss of pressure stress, as well as thermal expansion sliding (see load capacity list).

DETAIL PANEL JOINT

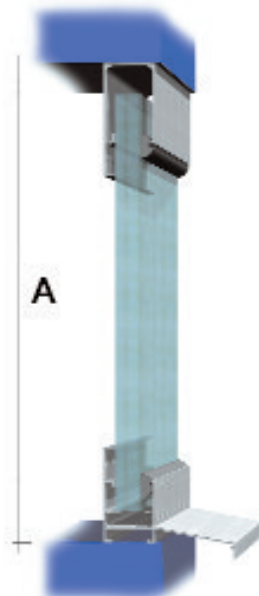


CALCULATION END INSTALLATION EXAMPLES OF PANEL LENGTH (PL)

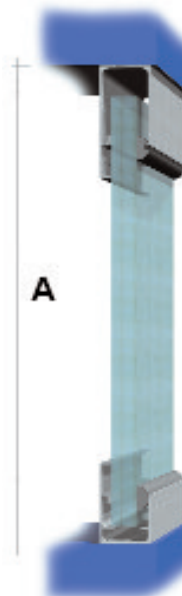
Warning: for panels longer than 9 m, please contact our technical service.



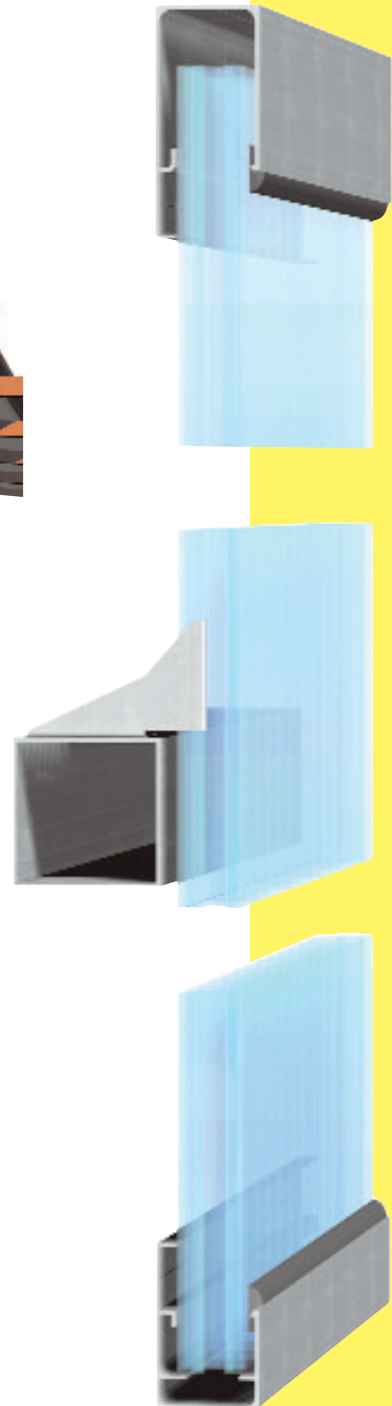
OUTSIDE OF THE BUILDING
 $PL = A + 80$
 A = opening measure



WITH EAVE
 $PL = A - 50$
 A = opening measure



WITHOUT EAVE
 $PL = A - 40$
 A = opening measure

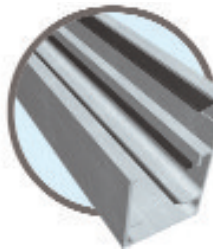
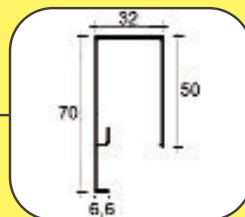


ACCESSORIES

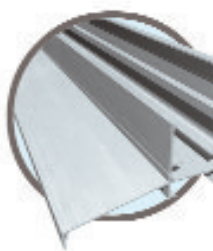
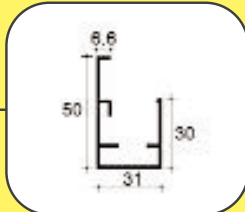
arcoPlus® system offers complete set of accessories that enable simple installation: opening windows (manual or motorized), for building ventilation and smoke evacuation (see section on opening windows). Polycarbonate sheet chambers sealed with aluminium tape are recommended in order to allow optimal ventilation to avoid dust accumulation.



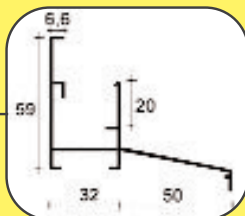
Upper and side
AL profile
Cod. 4061



Base AL
profile
without eave
Cod. 4062



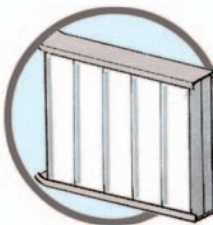
Base AL
profile with eave
Cod. 4064



Gasket
Cod. 1169/B



Link plate
Cod. 4063



Chamber sealing:
Laying of blind tape **cod. 4225**
Laying of tape ANTIDUST **cod. 4066**



Openable windows system
arcoPlus®323 (see page 42)

