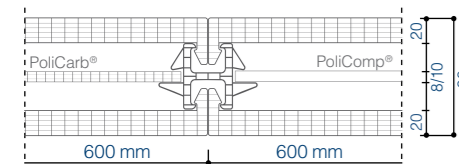
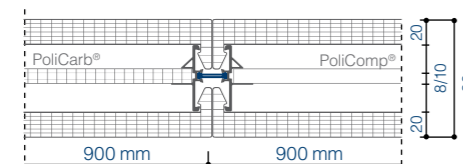


## 4 STANDARD SOLUTIONS

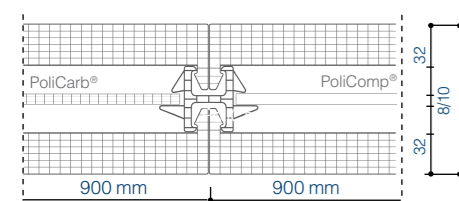
### DBconnect arcoPlus®626



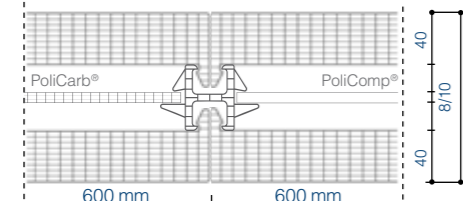
### DBconnect arcoPlus®9207



### DBconnect arcoPlus®9327



### DBconnect arcoPlus®6410



## FEATURES

arcoPlus®	626	9207	9327	6410
Thickness (mm) panel	20	20	32	40
Thickness (mm) system	90	90	114	130
Module width (mm)	600	900	900	600
Structure internal (#wall)	6	7	7	10
<i>*PoliCarb multiwall sheet</i>				
Thermal transmittance U(W/m²K)*	0.62	0.64	0.51	0.40
<i>**with middle PoliComp solid sheet</i>				
Acoustic insulation R <sub>w</sub> (dB) ISO717-1**	26	26	27	-
<i>Crystal panel, 2 layers</i>				
Light transmission (τ <sub>v</sub> )	39	34	31	26
Linear thermal expansion(mm/m°C)	0,065			
Temperature range (°C)	-40+120			
U.V. rays protection	Coextrusion			
Fire reaction EN 13501-1	EuroClass B-s1,d0			

## UV RAYS PROTECTION

The external surface of each polycarbonate panel is coextruded with a high concentration of UV absorbers for ensuring excellent resistance to damage caused by solar exposure or hail impact. Better results can be achieved thanks to special UVtech treatment that further increases product



## arcoPlus® 6410 DB connect

With a new series of specially designed accessories, the arcoPlus®6410 system is the most recent solution included into the DBconnect range. It is formed by coupling two panels with 40 mm thick, 600 mm wide, 10 walls and 9 air chambers, thus allowing the construction of a completely translucent polycarbonate wall with exceptional energy performance, as indicated by the **thermal transmittance value of U = 0.40 W / m²K.**

The total thickness of 130 mm allows a high mechanical resistance, which can be further increased by choosing of the aluminum double junction profile. Installing both no-looped insulated fastening brackets and thermal-break frame profiles and thanks to the possibility of extruding panels with no-limit length, aesthetic homogeneity and energy performance are guaranteed even on large surfaces.



**Important:** data contained in this document is provided in good faith with promotional/sales goals and it can be changed without notice. For further details contact directly our staff by phone or write e-mail to info@gallina.it.



Strada Carignano 104 - 10040 La Loggia (Turin) Italy  
tel. +39 011 96 28 177 - fax +39 011 96 28 361  
info@gallina.it - www.gallina.it

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## SPECIAL TREATMENTS



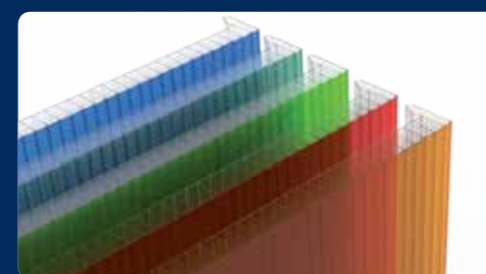
### CALEIDO PROJECT

To meet architectural design requirements, the Caleido project was formed to focus on the creation of custom colors. This project made it possible to create an infinite range of color straying from the tradition few. These production capabilities help bring form to all architectural aspirations.



### BI-COLOR ONE PANEL WITH TWO COLORS

The arcoPlus® panels can be produced with 2 different color layers to ensure long-lasting external color retention. This product makes it possible to maintain a visual comfort with light diffusion in the indoor environment, while also having an attractive outdoor façade full of bright colors.



### IR SOLAR CONTROL

IR treated panels can absorb portions of sun rays within infrared spectrum (780-1400nm), blocking out solar heat while allowing light through. This product can reduce the internal increase in temperature caused by the greenhouse effect by up to 25%, to help keep a comfortable indoor climate.



### UV-MATT ANTI-REFLECTIVE LIGHT-DIFFUSION

UV matt is UV ray protection with a matt finish coextruded into the external surface of the panel. This coextrusion gives your project a non-reflective finish rather than the normal reflective surface you would have with transparent building envelopes. This process allows the diffusion of light through its surface, while getting rid of sun glares and reflections.



### UV-TECH SOLAR EXPOSURE WARRANTY

arcoPlus® with UV-Tech Treatment is covered by an extended warranty up to 15 years. This is due to an improved UV coextrusion on the external side that is more chemically stable and effective over time. They guarantee greater protection against damage caused by extended solar radiation exposure.



### AB-ABSOLUTE OPAQUE WALL

Polycarbonate panels used for ventilated façades can be produced with the innovative AB-Absolute treatment. This treatment creates an opaque surface on the side of the panel facing the masonry while maintaining the transparent effect on the outside. Customized colors can be applied to the opaque or translucent surface.



### AG ANTI-SCRATCH & ANTI-GRAFFITI

For locations where polycarbonate panels are at risk for vandalism such as spray paint or surface scratching, AG-Anti-graffiti coating is the solution. AG is a coating applied to polycarbonate to create an anti-scratch and anti-graffiti surface to repel oil and water so that it cannot penetrate into the substrate allowing for easy removal.



### AR ANTI-GLARE

arcoPlus® panels with AR coating are characterized by frosted coextrusion on the inner wall which diffuses the sunlight. It avoids the presence of annoying glares or flash, typical elements of glossy surfaces, in order to improve the indoor visual comfort. Particularly suitable in public area as stadium, gym, school.



## APPLICATIONS

- Translucent façades
- Vertical curtain walls
- Building envelopes



## ADVANTAGES

- Lightness
- Transparency
- Thermal insulation
- Natural lighting
- Energy saving



arcoPlus626®-Double Connector System  
DTA n°2.1/13-1582\_V2 published on 12<sup>th</sup> 03/2018



## Multiwall Polycarbonate modular system

### HIGH THERMAL INSULATION

Translucent continuous façades  
Sustainable building envelopes



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POLYCARBONATE SYSTEMS & SHEETS





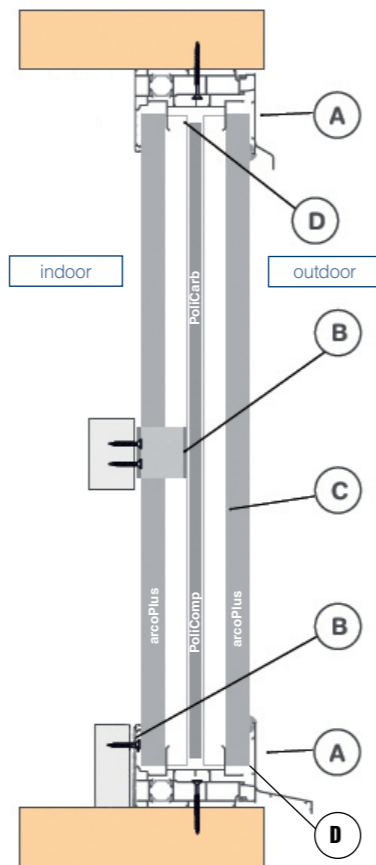
## High energy performance so far unthinkable with polycarbonate translucent walls



The arcoPlus®DBconnect system is specifically designed to create high-performance vertical translucent applications. Two arcoPlus® PC panels are joined together by a special "click-fit" connector profile that enables the creation of a double or triple wall with one or two interspaces. It can be made up of several arcoPlus® PC panel types depending on the application needs but is mainly promoted in 4 standard configurations (shown in this flyer). Thanks to its multiwall structure, arcoPlus®DBconnect is the ideal solution for translucent façades that offer great benefits in terms of thermal insulation. The connected profile is available in both polycarbonate and aluminum in order to meet customized requirements regarding light transmission or load resistance. In addition, the non-drilling fix system ensures a pristine finish and functional advantage such as free panel expansion.

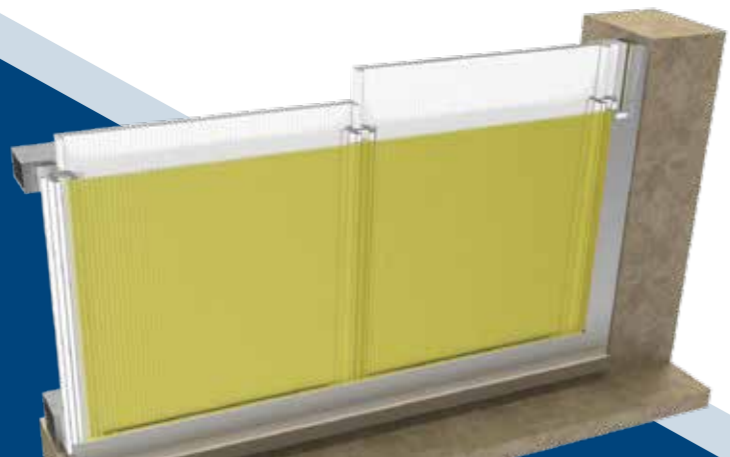
### WALL SYSTEM

- A) Aluminum frame profile with thermal break (4274/4832/4846/4848+flap).
- B) Aluminum connection accessories for anchoring the translucent paneling to the rear supporting substructure.
- C) Translucent multilayer façades assembled using Double-Connector accessories to join panels to each-other or to start/terminal PC profiles.
- D) Placement of micro-perforated tape for covering the top and bottom panel sides to close air channels.



### TRIPLE LAYER FOR A SINGLE WALL

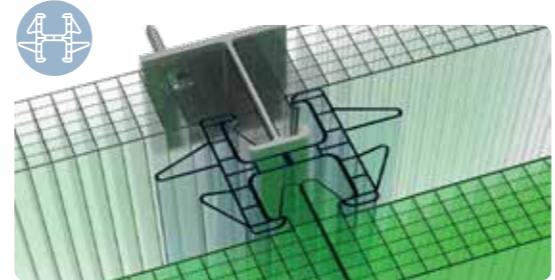
Triple Layer for a Single wall arcoPlus®DBconnect is ideal for large translucent modular walls, ensuring high thermal and acoustic insulation performance. For improving this feature, the system can be customized by adding a third translucent inner layer consisting of PoliCarb® or PoliComp® of 8 to 10 mm thickness depending on the use of a PC or Al Double Connector profile.



### LOAD RESISTANCE

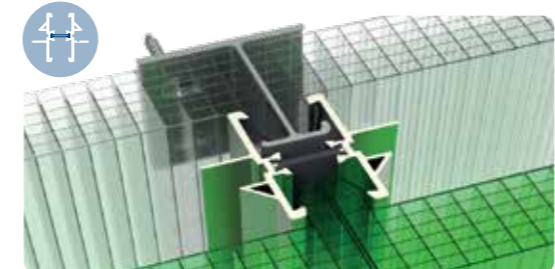
Determining whether to use polycarbonate or aluminum profiles depends on both the project requirements and the installation environment. The aluminum version is recommended in areas of high winds; the polycarbonate version is preferred for ensuring better thermal insulation but will not hold up as well against high winds.

#### POLYCARBONATE CONNECTOR PROFILE AESTHETIC HOMOGENEITY cod.2282

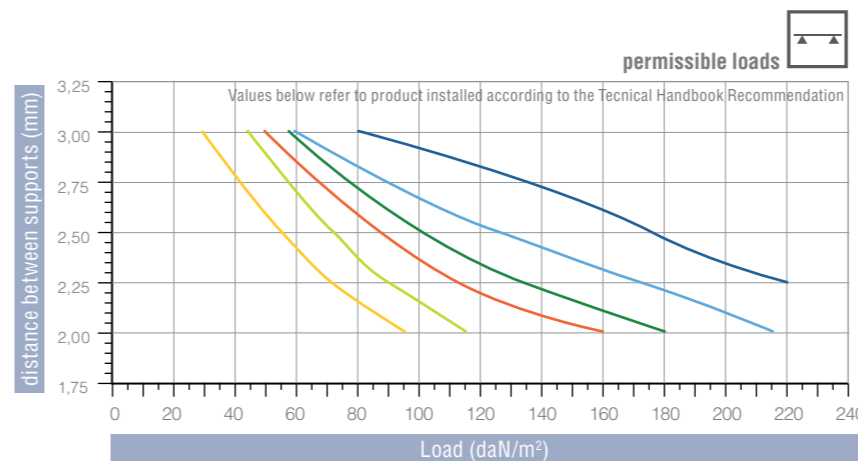


Using the double polycarbonate connector (cod.2282) the thermal transmission through the façade is reduced and the visual transparency is consistent throughout, even over large surfaces. The distance between the fixing points on the supporting substructure can also extend to approximately 2 meters.

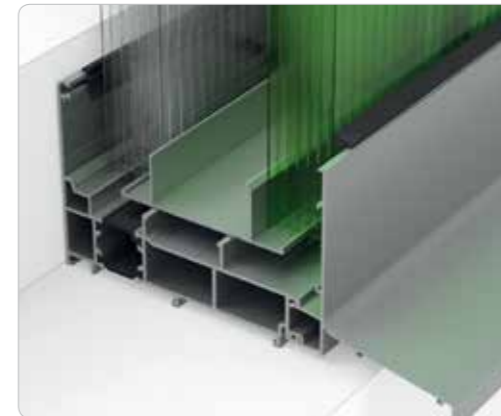
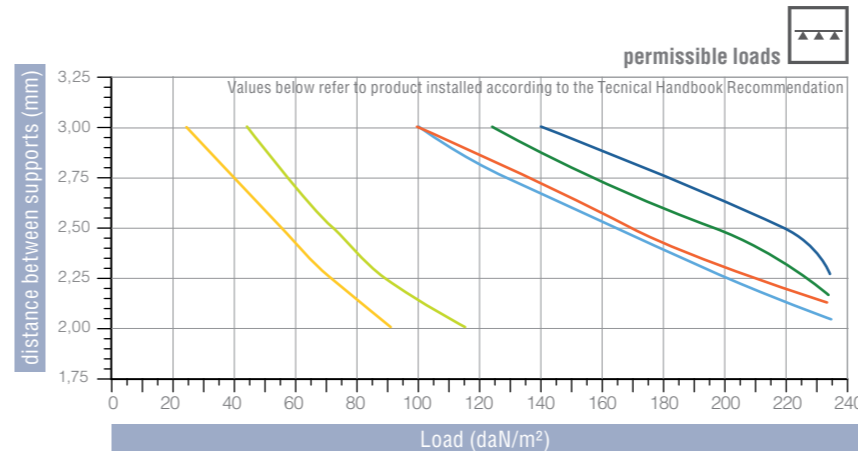
#### ALUMINUM CONNECTOR PROFILE MECHANICAL RESISTANCE cod.4833



The Aluminum connector (cod. 4833) has better structural performance allowing greater distances (up to 3 meters) between fixing points on the support structure. This now allows for high energy and structural performance, to this point unthinkable with polycarbonate translucent walls.



- arcoPlus® 626 20 mm
  - arcoPlus® 9207 20 mm
  - arcoPlus® 9327 32 mm
- to know the load resistance data of the DBconnect 6410 version, contact the technical-commercial office or visit the site [www.gallina.it](http://www.gallina.it)

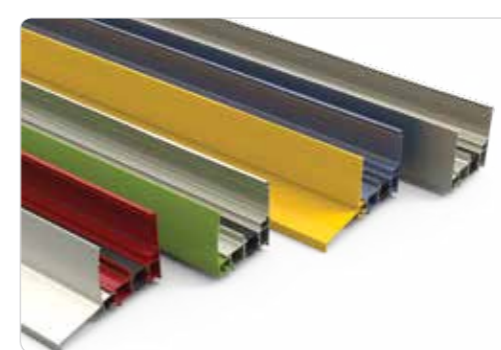


#### MOUNTING OF BASE PROFILE cod.4807

Thanks to the modular frame profiles (4274/4832/4846/4848), it is possible to choose both the shape and the color of front side flaps while maintaining their functionality. Most versions can be provided with either a curved or straight profile depending on architectural needs. The surface of the profile has an anodized finished and is available in an infinite variation of colors. Made up of a base (visible indoors) and a flap (exposed to the outside), this profile could be designed to show different colors indoor and out.



#### DIFFERENT FACE FLAP TYPES with straight or curved shape



#### DIFFERENT COLORS AND PROFILES to differentiate indoor and outdoor window's design

The DBconnect system provides a complete set of aluminum profiles and PC elements to meet all installation requirements. In addition to these installation requirements it is recommended to close the panel ends (flutes/ribs) using micro-perforated aluminum tape. This allows condensation to evaporate and prevents the internal accumulation of dirt and dust.



#### SIDE PROFILE cod.4274

- 4846 Al base/side/upper profile with TB th.20+20 mm
- 4832 Al base/side/upper profile th.32+32 mm
- 4848 Profilo perimetrale in Al con TT per sp.40+40mm
- 4809 (+4832/4846/4848) Al base/upper/side straight flap
- 4831 (+4832/4846/4848) Al base straight flap with drip sill
- 4819 (+4832/4846/4848) Al upper straight flap with drip sill
- 4804 (+4832/4846/4848) Al base/upper/side curved flap
- 4807 (+4832/4846/4848) Al base curved flap with drip sill
- 4801 (+4832/4846/4848) Al upper curved flap with drip sill
- 4803 (+4832/4846/4848) Special Al upper flap for greatest heights
- 4274 for th.20mm Al base/side/upper profile for Double Connector
- 4755 - h.30 | 4742 - h.60 | 4743 - h.75 | 4275 - h.100 Al flaps (30,60,75,100 mm) for 4274
- 4844 Bufferfly inner spacer
- 4722 - arcoPlus 626/6410 | 4723 - arcoPlus 9207/9327 Al spacer
- 1374 Internal PE base dripping eave for 20+20 mm
- 2282 Polycarbonate Double Connector
- 4833 Aluminum Double Connector
- 2179 th.20 mm | 2710 th.32 mm | 2840 th.40 mm PC started profile
- 2180 th.20 mm | 2712 th.32 mm | 2842 th.40mm PC terminal profile
- 2550 PC corner 90° cover profile
- 4588 (+2550) th.20 mm | 4740 (+2550) th.32/40mm Al corner profile
- 1169/B Slip-coat rubber seal strip
- 1169/B/AGS Overlap Slip-coat seal strip
- 4328 th.20 mm | 4712 th.32 mm | 4726 th.40 mm Flat fastening Al bracket
- 4263 for th.20mm Flat fastening stainless steel bracket
- 4828 Flat plain aligner
- 4329 Single-side self-adhesive PE-LD seal strip 4x15 mm
- 4327 for 600mm lenght | 4950 for 900mm lenght Taping surcharge
- 1373 Internal PE base dripping eave for 32+32 mm
- 1374 Internal PE base dripping eave for 40+40 mm