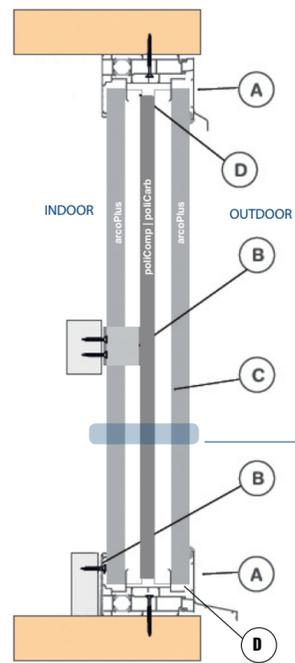




High energy performance so far unthinkable with polycarbonate translucent walls

The arcoPlus®DBconnect system is specifically designed to create high-performance vertical translucent applications, that offer benefits in terms of thermal insulation, while maintaining the advantages of the indoor natural lighting. The multi-layer package is composed of two ArcoPlus®6410 panelings joined together by a special "click-fit" connector profile that enables the creation of a double or triple wall having a 130mm total thickness; the system can be customized by adding a third internal translucent layer consisting of PoliCarb® multiwall polycarbonate sheet or PoliComp® compact version, creating two internal cavities.



- A.** Aluminum frame profile with thermal break
- 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.



U= up to 0,40 W/m²K

The junction profile has been developed in two versions, polycarbonate one (cod.2282) or aluminum one (cod.4833), in order to satisfy customized needs regarding light transmission or load resistance. In fact, this wall-system allows to reach high mechanical resistance that can be increased using of the aluminum profile. Finally, the use of both non-drilling fix system and thermal break accessories gets a considerable reduction of thermal bridges, contributing to thermal transmittance reduction for a better homogeneity of energy performances over the entire translucent surface.

DOUBLE LAYERS WALL SYSTEM

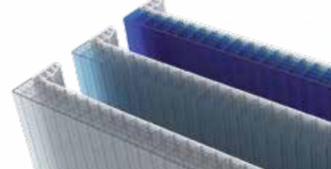


arcoPlus®
6410 DBconnect

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.

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.



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.

AG ANTI-GRAB 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.

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.



UV MATT ANTI-REFLECTIVE LIGHT-DIFFUSION

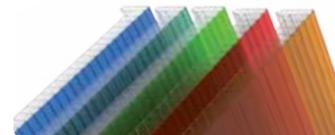
UV matt is UV ray protection with a matt finish coextruded into the external surface of the panel. This coextrusion gives your project a non-reflective finish rather than the normal reflective surface you would have with transparent building envelopes. This process allows the diffusion of light through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



SPECIAL TREATMENTS

BC 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 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.

AR 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.

ED 03 2019 cod. 20206



UV-ABSORBER COEXTRUSION

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 stability over time.

dott.gallina
POLYCARBONATE SYSTEMS & SHEETS

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arcoPlus®
6410

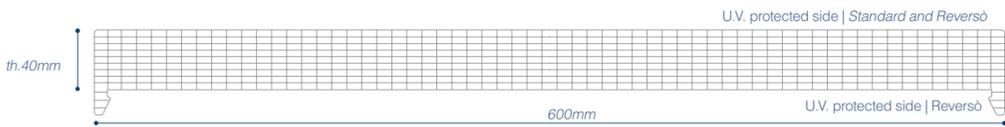
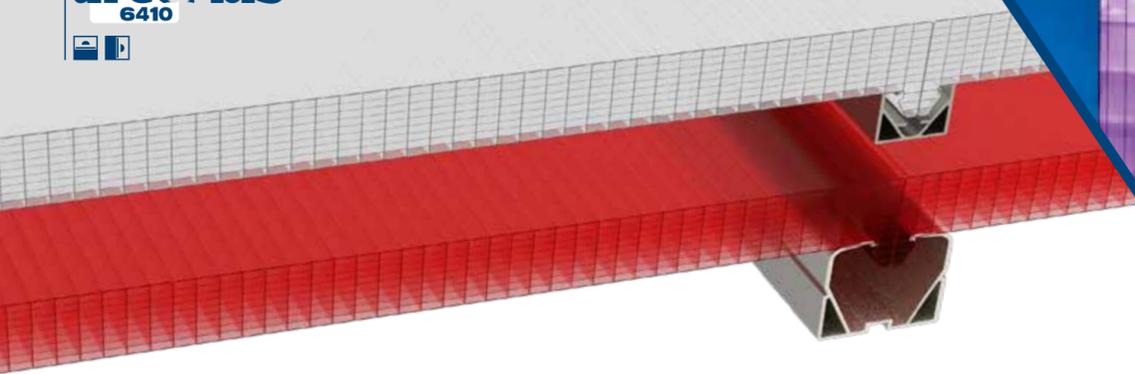
Modular Connector System of polycarbonate multiwall panels

Standard | Reversò | DBconnect

maximum performance

Roofings
Facades
Building envelopes

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POLYCARBONATE SYSTEMS & SHEETS



Modular system of multiwall polycarbonate UV protected panels for Translucent facades or roofings with high thermal insulation

PRODUCTION STANDARDS

Thickness (mm)	40
Structure (walls)	10
Width (mm)	600

FEATURES

Thermal trasmittance U (W/m²K)	0.94
Acoustic insulation (dB)	21
Linear thermal expansion	0,065 mm/m°C
Temperature range	-40°C +120°C
U.V. protection	coextrusion
Fire Reaction EN 13501-1	EuroClass B-s1,d0

SPECIAL TREATMENTS



arcoPlus® 6410 is a modular system composed by connector multiwall panels with 40mm thickness and 600mm width. The panels have been declined in 3 versions with specific accessories in order to follow every specific need of use: Standard setting, Reversò laying and DBconnect wall version. The system is equipped with profiles suitable for the realization of roofs, windows and facades, that guarantee both thermal / mechanical performance and aesthetic continuity of the whole building by creating a protective envelope. With the aim of guarantee the system benefits, a minimum slope of 5% is recommended for flat roofs, as well as a minimum radius of 8,000mm or curved applications. Using 6140 panels it is possible realizing ventilated or cladding façades following the technical indications of the arcoPlus® VTfacade system

APPLICATIONS

- Continuous facades
- Translucent Curtain walls
- Flat or curved roofings

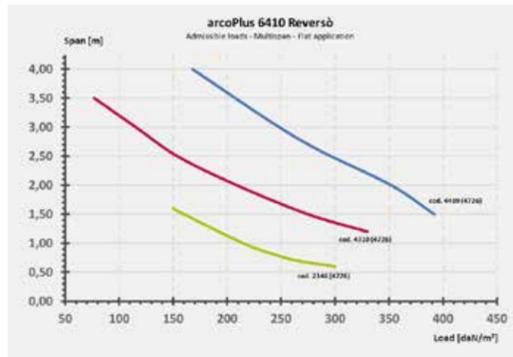
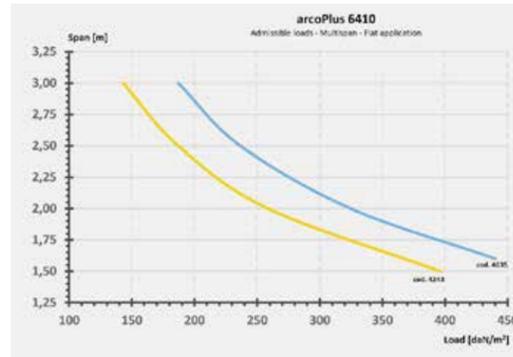


LOAD RESISTANCE

<p>cod_4243 Al connector profile 32mm STRAIGHT</p>	<p>cod_4635 Al connector profile 62mm STRAIGHT</p>
<p>cod_4248 *Al connector profile 32mm CURVED</p>	<p>cod_4636 *Al connector profile 62mm CURVED</p>

LOAD RESISTANCE

<p>cod_4310 Al connector covergasket</p>	<p>cod_2146 Pc connector covergasket</p>	<p>cod_4499 Al conn.reinforced covergasket</p>
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Minimum curvable radius 8.000mm
* The arcoPlus®6410 panels in both Standard and Reversò versions can be used for curved applications with a minimum radius of 8000mm. Contact the technical office for more information ab admissible loads.

ACCESSORIES

The 6410 system is equipped with a complete set of both aluminum profiles and polycarbonate elements to meet all installation needs. The non-looping fastening methods allow not drilling any panel, offering aesthetic, energetic and functional advantages such as the free expansion of the panels and the considerable reduction of thermal bridges. Also it is recommended to close the alveoli using micro-perforated aluminum adhesive tapes for a correct evaporation of the condensate and to prevent the dust internal accumulation.



permissible loads

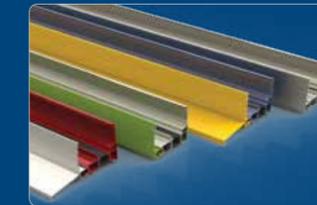
Values below refer to product installed according to the Technical Handbook Recommendation



permissible loads

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

DIFFERENT FACE FLAP TYPES
with straight or curved shape



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



Standard:

- 4243 straight**
4248 curved
Al connector profile 32 mm
- 4244 straight**
4249 curved
Al edge connector profile
- 4635 straight**
4636 curved
Al connector profile 32 mm
- 4596**
Al base/side snap profile with thermal break
- 4809 (+4848/4596)**
Al base/upper/side straight flap
- 4831 (+4848/4596)**
Al base straight flap with drip sill
- 4819 (+4848/4596)**
Al upper straight flap with drip sill
- 4804 (+4848/4596)**
Al base/side curved flap with drip sill
- 4807 (+4848/4596)**
Al base curved flap with drip sill
- 4801 (+4848/4596)**
Al upper curved flap with drip sill
- 2549**
PC Corner 90° cover-profile
- 4740**
Al corner-profile (+2549)

- 2840**
PC starter profile
- 2842**
PC terminal profile
- 4589**
Al terminal profile
- 4870**
Fixing higher eclipse for connector profile
- 4977/600/TR**
Al closing lock cover drip-free
- 4447**
PELD foam pad
- 1169/B**
Slip/coat rubber seal strip
- 4726**
Fixing lower eclipse
- Internal PE base dripping eave
- 1400 for 32mm**
4248 for 62mm
Drip-stopper "V" eave for connector
- 4327**
Taping surcharge
- 4828**
Flat plain aligner

Reversò version:

- 2146**
Polycarbonate connector covergasket
- 4310**
Aluminium connector covergasket
- 4499**
Twister - Aluminium reinforced connector covergasket
- 4303**
PC closing cap for PC connector covergasket
- 4319/200**
Al joining eclipse for connector Al covergasket
- 4763 per 4310**
4764 per 4499
Al 'L' closing cap for Al connector
- 4318 for 4310**
4462 for 4499
PE-LD foam pad for Al connector Reversò
- 4329**
Single-side self-adhesive PE-LD seal strip 4*15 mm
- 4316/4315**
M6 spheric acorn nut UNI 5721A2 Screw M6 x 20 ISO 4762 A2
- 4977/600/TR/RV**
Al closing lock cover

DBconnect system:

- 2282**
Polycarbonate Double Connector
- 4833**
Aluminium Double Connector
- 4848 (+ bavette)**
Al base/side/upper snap profile with TB for DBconnect th.40+40mm
- 4844**
Al butterfly inner spacer
- 4722**
Al inner spacer
- Internal PE base dripping eave for DB40+40
- 4329**
Single-side self-adhesive PE-LD seal strip 4*15 mm