

CUSTOMISED SURFACES & SPECIAL TREATMENTS

COLORS COLLECTION

Our special multi-layer extrusion allow to customise the color of the panel bulk with infinite shades of colors according with each architectural request; this is the Caleido project. However, to speed up delivery times we have selected a collection of 21 colors, called RTG, which is available on the full range of arcoPlus systems.

UV-MATT | SILK DIFFUSING SURFACE

In order to avoid surface's glares that usually characterize the PC building covering and to get a new material sensation, we can coextrude a special matt and UV-protected finish on outer wall of panels. This treatment allows also a better distribution of natural light in the interiors and give a special one silk filltouch.

UV.TECH | SPECIAL SOLAR EXPOSURE WARRANTY

arcoPlus® paneling customised with UV-TECH treatment is characterized by an extended warranty up to 15 years, due to an exclusive protective coextrusion applied into the external walls facing the sun exposure, composed by the special UV-absorbers more chemically stable and effective over time.

AR | ANTI-GLARE SURFACE

arcoPlus® panels with AR coating are characterized by a kind of coextrusion on the inner side which diffuses the sunlight. It reduces the passage of heat but moreover this innovation prevents glares or flash, thus improving the environment's visual comfort of the indoor area where they are installed.

IR | SOLAR CONTROL

The panels spiked with IR treatment can absorb the portion of light of the infrared spectrum (780-1400nm), blocking solar heat but letting pass the brightness. Using these products, you can reduce up to 25% increase in the internal temperature caused by the greenhouse effect and you can keep the climate comfort.

AG | ANTI-SCRATCH & ANTI GRAFFITI

Sometimes the panels are installed where there's the risk of damage by vandalism as spray paint or surface scratch, here AG treatment: it creates an anti-graffiti and anti-scratch surface with a repellent barrier to oils and water prevents the paint to penetrate deeply into the substrate and will make it easy to remove.

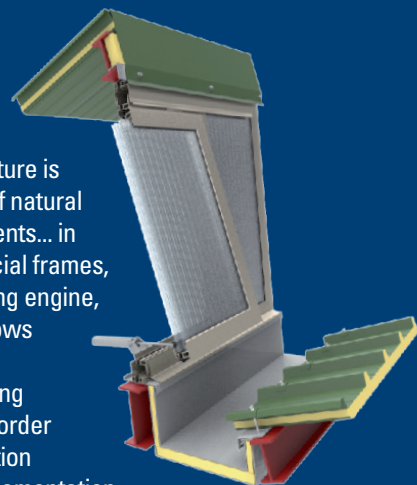
arcoPure®

To the arcoPure® polycarbonate panels is applied PURETI® advanced nanotechnologies with the aim of reduce carbon footprint and to make buildings more and more sustainable... So PC panels are treated directly during the extrusion production process with this special patented coating to both reduce pollution and improve air quality. Through the UVrays and solar energy, this transparent and non-toxic photocatalytic treatment is activated and chemical reactions occur on the PC surface, converting atmospheric pollutants particles VOx Nox in Oxygen molecules, emitted into the air.

Plastic get to behave like natural phenomena... giving five main benefits: air-purification for healthier spaces, anti-pollution balance, indoor odor reduction, anti-viral & anti-bacterial surfaces and self-cleaning facades.

OPENABLE SYSTEM WITH THERMAL BREAK

The goal of translucent architecture is to benefit as much as possible of natural resources for internal environments... in this way we have designed special frames, with automatic or manual opening engine, allowing to insert opening windows into your arcoPlus®5511 facades. The size of these opening windows can be customized, in order to guarantee the correct ventilation according to each specific regulation.



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NOTE The data contained in this documentation is provided to informative title and can be changed without notice. For further information write to info@gallina.it or take a phone call with our technical support office.

Project: Gloria Kaufman Performing Arts Center
By L.A-based AUX Architecture
Location: Los Angeles, Usa



arcoPlus®
5511

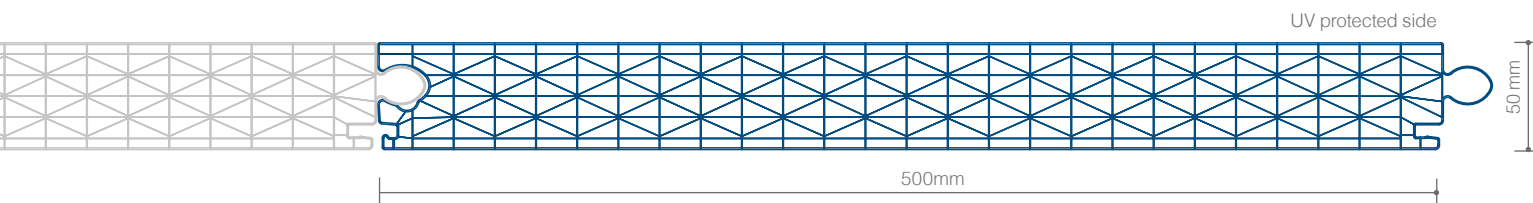
Continuous facades
Translucent walls

Multiwall
polycarbonate
interlocking
modular system
th.50mm

ED/ENG_09_2024



Architecture dressed in Light



MODULAR SYSTEM INTERLOCKING of multiwall panels UV-PROTECTED polycarbonate FOR VERTICAL APPS TRANSLUCENT FACADES&WALLS

PRODUCTION STANDARDS

Thickness	50 mm
Structure	11 walls
Modular width	500mm
Standard colors	Clear Opal, Bronze
Special colors	RTG + Caleido

TECHNICAL FEATURES

Thermal transmittance U	0,9 W/m ² K
Acoustic insulation R _w (ISO 717-1)	21 dB
Linear thermal expansion	0,065mm/m°C
Temperature range	-40°C +120 °C
UV rays protection	Coextrusion
Fire reaction EN 13501-1	EuroClass B-s1,d0
Light transmission T _v Crystal	43%
Light transmission T _v Opal	25%

SPECIAL TREATMENTS



DESCRIPTION

arcoPlus®5511 is a system made of modular polycarbonate panels of 50 mm thickness with interlocking tongue&groove clip, having an internal structure composed of 11 walls with X-sloping position. To guarantee technical and aesthetic performance we have developed a series of accessories and perimeter profiles with thermal break so that the properties of polycarbonate are respected in each installation condition.

These panels are made entirely of polycarbonate so they are **100%recyclable** and if they are correctly recycled they can get a second life in the construction, furnishing or industrial sectors.

*the new 50mm panel
fills our interlocking range!*

LOAD RESISTANCE

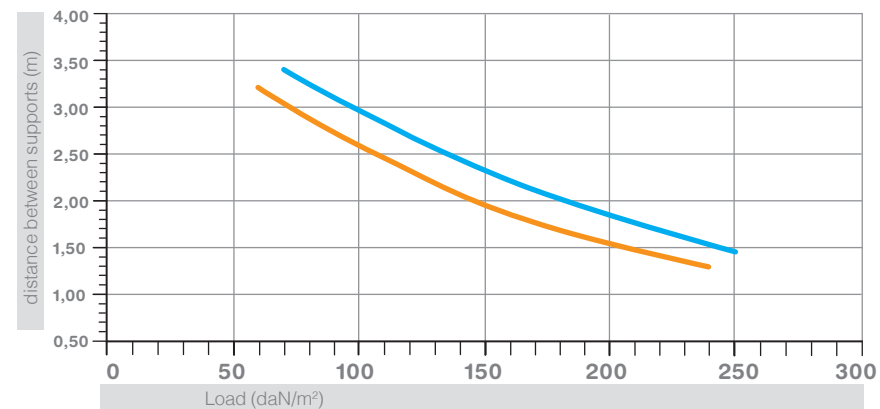


Maximum loads
single span

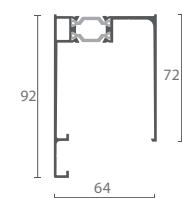


Maximum loads
double or multi span

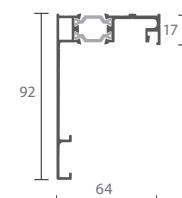
Values below refer to product installed according to the Technical Handbook Recommendation



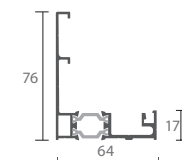
METAL PROFILES WITH THERMAL BREAK



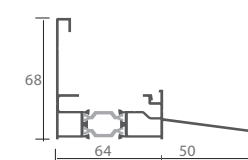
4584
HIGH Upper/ Side
ALU profile TB



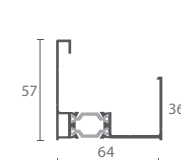
4593
HIGH SNAP
Upper/Side
ALU profile TB



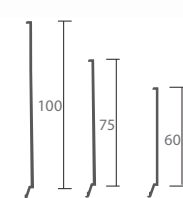
4592
SHORT SNAP
Base
ALU profile TB



4591
SHORT SNAP
Base ALU profile TB
with drip eave

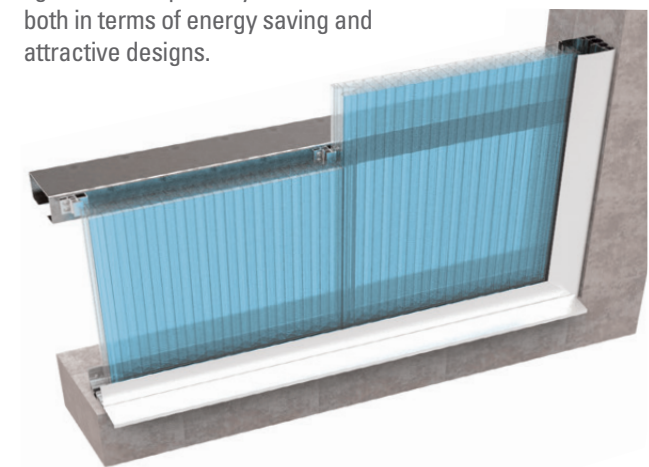


4586
Base
ALU U profile TB



4275- 4743- 4742
Flap ALU
for SNAP profiles

Thanks to the features of lightweight and unbreakability of the PC multiwall panels, it is possible to easily create large translucent surfaces, using the support of a light and barely visible substructure. In fact, with the use of the few accessories designed for this system, the benefits of natural light and transparency can be maximized both in terms of energy saving and attractive designs.



VERTICAL APPLICATIONS

- Continuous facades
- Translucent Curtain Walls
- Windows & Shed
- Indoor partitions

ADVANTAGES

- Easy installation
- Thermally broken frame profiles
- Integration of openable systems
- Light transmission
- High Thermal Insulation
- High wind resistance
- Indoor natural lighting
- EuroClass B-s1,d0
Fire reaction EN 13501-1



enjoy
all the
benefits
of natural
light.



ACCESSORIES



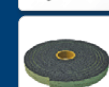
4A035
Alu bracket



1169/B
Slip-coated rubber
seal strip



1169/B/AGS
Overlap Slip-coated
seal strip



4329
self-adhesive
PE-LD seal strip



4951
Taping surcharge