

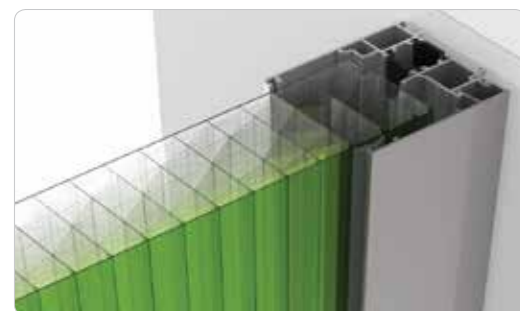
## APPLICATIONS WALL SYSTEMS | OPENING WINDOWS

### ADVANTAGES

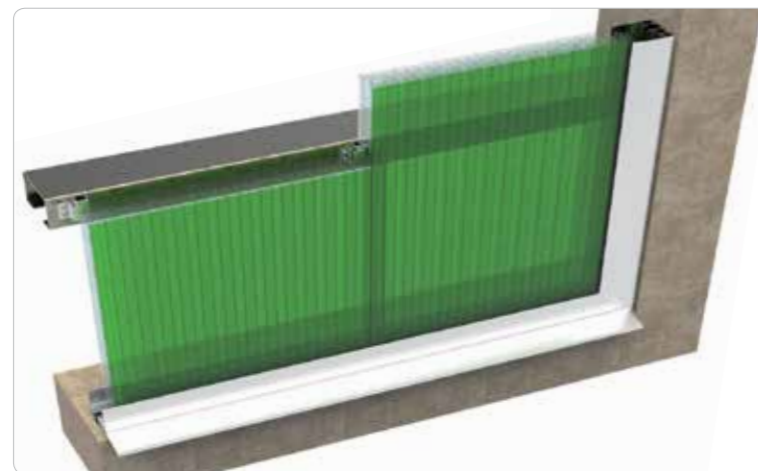
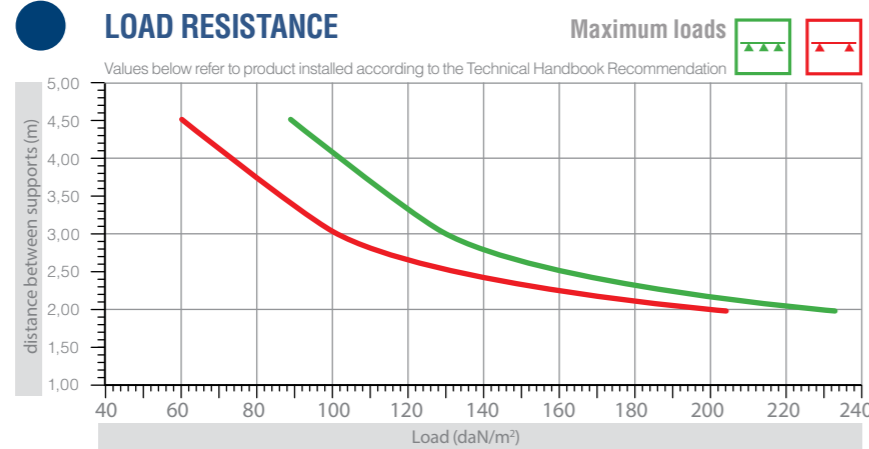
- Easy and low-cost installation
- Thermal bridge interruption
- Can be applied to the openable systems
- Light transmission
- High insulation coefficient
- High wind resistance
- Fire reaction EN 13501-1| EuroClass B-s1,d0

### WALL SYSTEM

arcoWall@5613 allows the realization of real "translucent walls" with high thermal and acoustic characteristics without width limits and without the need for secondary support structures for spans up to 3.5m in height. For installations exceeding 3.5m, a suitable section-breaker profile must be installed to which the arcoWall@5613 panels can then be fixed. It is done using the specific brackets to give the system the necessary resistance to negative wind load and permit sliding due to thermal expansion. Thanks to the multiwall structure of the modular panels, the aesthetic appearance, both in the presence of backlight and of grazing light, is extremely unique. The chromatic effects can be modulated endlessly in terms of coloring and of light transmission. The external and internal surfaces can be of different colors, which allows managing the light filter according to the needs of natural lighting. The inner surface can be coextruded with an anti-reflective treatment, which is highly effective in reducing the unpleasant effects of artificial light reflections.



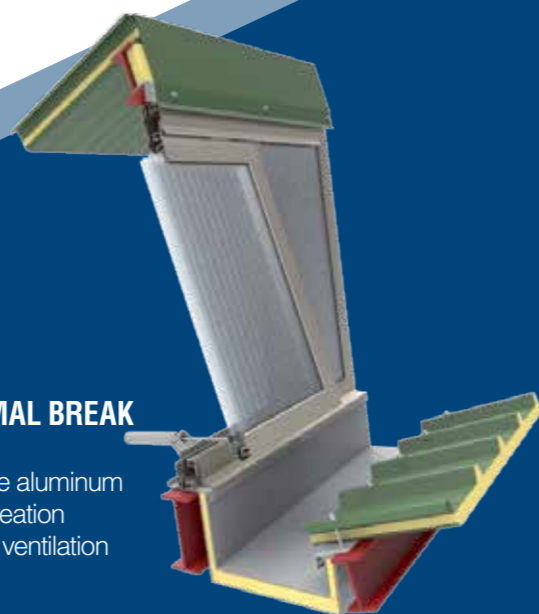
SIDE DETAIL C.O.D. 4800+4809  
PROFILE WITH STRAIGHT FLAP



ALU BRACKET C.O.D. 4715  
FOR ANCHORING PANELS TO  
INTERMEDIATE STRUCTURES

### OPENABLE SYSTEM WITH THERMAL BREAK

There are available openable systems arcoWall@5613 realized with innovative aluminum profiles with thermal break that allow creation of openable systems for indoor natural ventilation of curtain walls



## SPECIAL TREATMENTS

### AB ABSOLUTE AB-ABSOLUTE

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

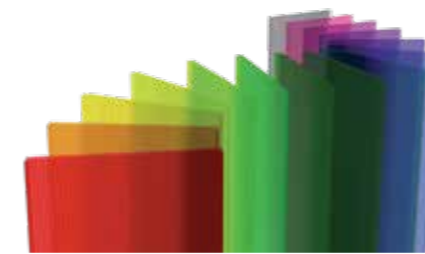
arcoPlus® with UV-Tech Treatment is covered by an extended warranty up to 15 years. This is due to an improved UV coextrusion on the external side that is more chemically stable and effective over time. They guarantee greater protection against damage caused by extended solar radiation exposure.

### AG ANTI-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.

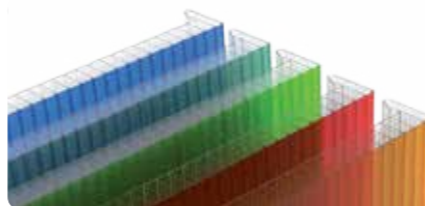
### CALEIDO PROJECT CALEIDO PROJECT

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.



### BC BICOLOR ONE PANEL | TWO COLORS

The arcoPlus® panels can be produced with two 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



### IR IR SOLAR CONTROL

IR treated panels can absorb portions of sun rays within infrared spectrum (780-1400nm), blocking out solar heat while bringing in light. 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.



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**arcoWall®**  
5613

**Multiwall polycarbonate  
interlocking modular system**

**High thermal insulation**

Continuous façades  
Translucent curtain walls

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POLYCARBONATE SYSTEMS & SHEETS

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POLYCARBONATE SYSTEMS & SHEETS



## Modular system of multiwall UV protected polycarbonate for vertical translucent walls

### PRODUCTION STANDARDS

Thickness	60mm
Structure	13 walls
Modular width	500mm
Standard colors	see page 11
Special colors	on demand

### TECHNICAL FEATURES

Thermal transmittance U	0,7 W/m <sup>2</sup> K
Acoustic insulation R <sub>w</sub> (ISO 717-1)	22 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

### SPECIAL TREATMENTS

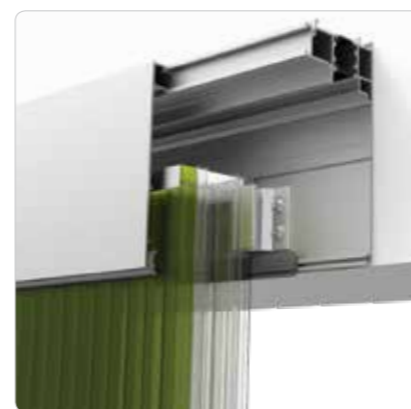
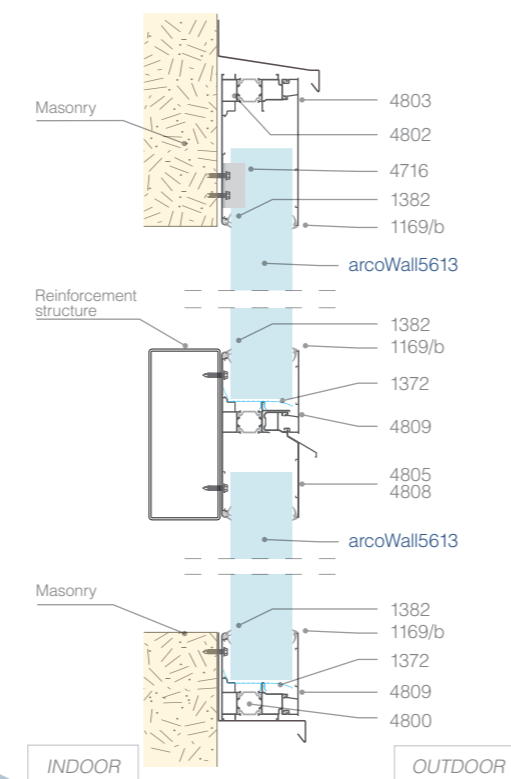


## HIGHER AND HIGHER... SYSTEM FOR INFINITE VERTICAL FACADE

With the aim to best meet the design-building requirements, we present the new series of profiles conceived specifically for achieving translucent facades with extra height, which could be impossible to realize before now. Thanks to the new aluminum profiles, our polycarbonate panels arcoWall@ become the ideal solution for vertical applications with oversize heights... Furthermore do not forget the infinite possibilities offered by special treatments to customize the coloring or surface finish of panels, giving freedom to architectural creativity.

### WALL SECTION EXAMPLE

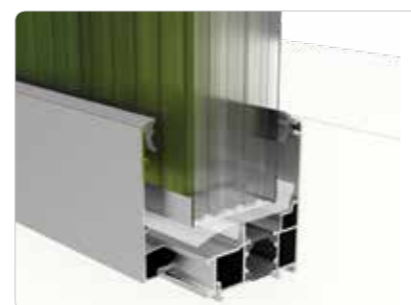
external building installation | façade more than 16m high



UPPER PROFILE FOR OVERSIZE HEIGHTS



HORIZONTAL JOINING PROFILE



BASE/SIDE PROFILE

### FACADE UP TO 16M HIGHT

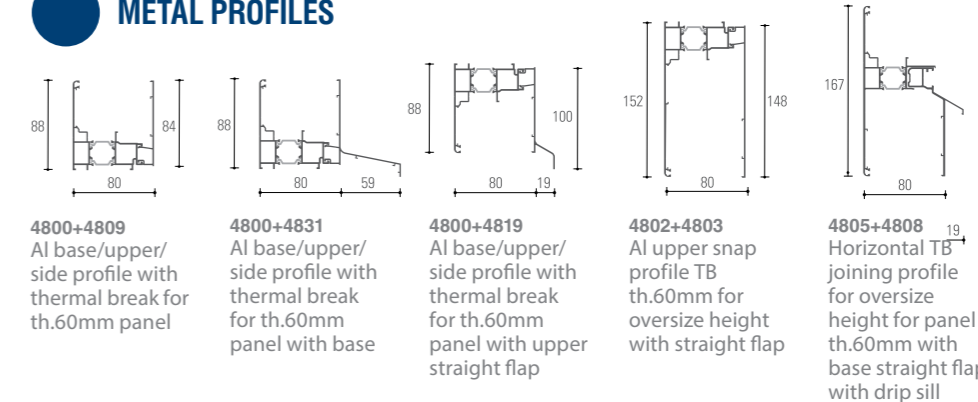
With the use of the upper profile equipped with a special straight flap for oversize heights (code 4802 + 4803), it is possible to realize translucent vertical infills with light room of 16 meters maximum height. Providing appropriate supporting substructures, depending on the permissible load, the panels of this length are installed without any anesthetic horizontal interruption of the facade.

### FACADE WITHOUT HIGHT LIMIT

The additional introduction of the horizontal junction breaker profile (cod.4802 + 4803 + 4808 + 4805) in the facade paneling makes it possible to create translucent surfaces for buildings of "infinite height". In fact, this element makes it possible to produce spans of 3 / 3.5m without the need of substructures, or to place panels with a maximum height of 16m, providing suitable intermediate supports.



## METAL PROFILES

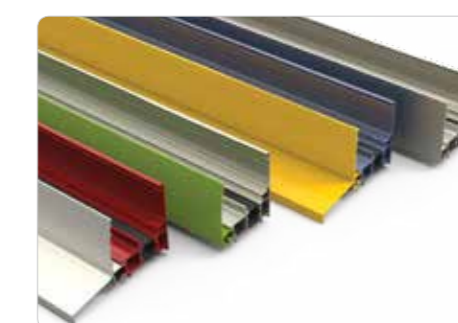


The air cells of the polycarbonate panels must be sealed using vented aluminum tape. This permits correct ventilation and prevents soiling on the inside of the panels. In order to ensure maximum thermal insulation and respect for the Window-to-Wall Ratio (WWR), there are available openable systems arcoWall@5613 realized with innovative aluminum profiles with thermal break. Thanks to the modularity of frame profile 4800, it is possible to choose both the shape and the color

of the front flap. While maintaining the same functionality, 3 flap versions can be provided with curved or straight silhouette, depending on the design needs. In addition to standard anodized surface-finish, the profiles can be painted with any shade. Moreover an additional feature allows to diversify the color between the indoor and outdoor side by giving two different nuances for base profile (visible in indoor environments) and for flap (exposed to the outside).



DIFFERENT TYPES OF FLAPS  
Curved and straight flaps



DIFFERENT COLORS OF PROFILES  
Diversify the color between inner / outer side

## ACCESSORIES

-  **4800**  
ALU base/upper/side profile with thermal break
-  **4809 (+4800)**  
Base/side straight flap
-  **4831 (+4800)**  
Base straight flap with drip sill
-  **4819 (+4800)**  
Upper straight flap with drip sill
-  **4801 (+4800)**  
Upper curved flap with drip sill
-  **4804 (+4800)**  
Base/side curved flap
-  **4807 (+4800)**  
Base curved flap with drip sill
-  **4802+4803**  
Upper snap profile TB for OVERSIZE HEIGHTS
-  **4805+4808**  
Horizontal TB joining profile for OVERSIZE HEIGHTS
-  **4715/60**  
Al bracket length 60/120mm
-  **4715/120**  
Al bracket length 45mm
-  **4716 (+4802)**  
Al bracket length 45mm
-  **1372**  
Internal PE base dripping eave
-  **4828**  
Flat aligner for base TB profiles
-  **1382**  
Snap-fitted rear seal
-  **1384**  
Sled-scroll rear seal
-  **1169/B**  
Slip-coated rubber seal strip
-  **4951**  
Taping surcharge

### APPLICATIONS

-  High-performance continuous facades
-  Translucent facades
-  Windows
-  Indoor partitions

### CERTIFICATION



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