MULTIWALL SHEETS | SOLID SHEETS | CORRUGATED SOLID SHEETS | MODULAR SYSTEMS | CORRUGATED "MICROALVEOLAR" SHEETS

dott.gallina
PLASTIC MATERIALS INDUSTRY

Caleido

LIGHT MANAGEMENT

The Caleido project line is dedicated to the realization of facades and coverings with innovative aesthetic and architectural solutions.

The arcoPlus® panels and the Policarb® multiwall sheets can be colored to modulate the light transmission, optimize the shadow effect thereby allowing a lower heating of the internal environment. The new extrusion technology with double color allows to satisfy the chromatic needs of the project, at the same time dosing the light transmission recreating particular settings.

IR
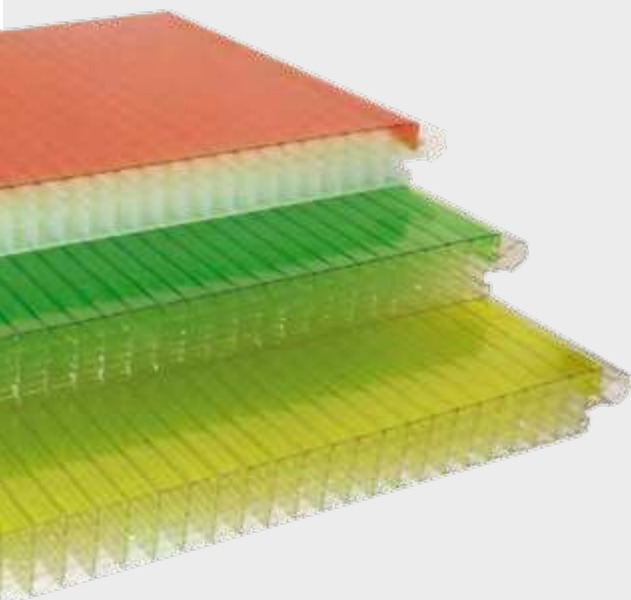
IR TREATMENT

Temperature control and heat management are essential elements in maintaining a desired level of comfort within buildings. They are also critical elements for cost control and maximization of energy savings.

Policarb®IR, Policomp®IR sheets and modular arcoPlus®IR panels make up dott. Gallina's new product range for transparent coverings and windows with solar control. All products from the IR line offer innovative solutions for typical building applications where high levels of light are wanted while reducing the internal heating.

The products of the IR line absorb the part of the light relative to the infra-red rays (from 780 to 1400nm), effectively blocking the solar heat, while letting the solar light through.

The potential result: reduced energy spending for cooling and for lighting as well as higher comfort.

AR

AR TREATMENT

When a high efficiency of light transmission within a building is needed AR treatment can enable a better distribution of the light intensity on the surface, reducing reflections and dazzling.

THE PRODUCTION

The production of modular panels with transparent or translucent colors, and the use of the new double color technology, allows dott. Gallina to propose various solutions for applications on walls and coverings. Both multiwall and solid sheets, as well as modular arcoPlus® systems offer an incredible liberty of design, in the applications such as skylights, tunnels, greenhouses, gazebos due to a vast range of available products.

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Polycarbonate

PoliCarb®

MULTIWALL U.V. PROTECTED POLYCARBONATE SHEETS
for roofing, windows, skylights, greenhouses, porches, gazebos, ceilings

TECHNICAL FEATURES

Linear thermal expansion	0,065mm/m°C
Temperature range	-40°C +120 °C
U.V. protection	Coextrusion (both sides upon request)
Fire reaction EN 13501	EuroClass B-s1,d0

DESCRIPTION

The characteristic structure of the multiwall sheets with air space inside guarantees good thermal insulation and excellent resistance to crash stress. The external side of Policarb® is coated with U.V. protection (both sides on request) warranting resistance to aging due to atmospheric agents and UV rays.

ADVANTAGES

❖ Light transmission
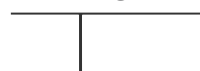❖ Resistance to U.V. rays and to hail
❖ Energy saving
❖ Economical

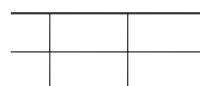## PRODUCTION STANDARDS

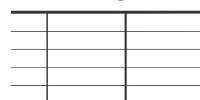Product available with IR treatment **IR**
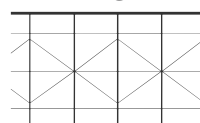
2 WALLS

2 WALLS WIDE

3 WALLS

4 WALLS

5 WALLS RDC

6 WALLS

7 WALLS

PROFIL	STRUCTURE	THICKNESS	WEIGHT	U VALUE	WIDTH
	walls	mm	Kg/m²	W/m²K	mm
Policarb 2P-4mm	2	4	0,80	3,9	2.100
Policarb 2P-4,5mm	2	4,5	1,00	3,9	2.100
Policarb 2P-6mm	2	6	1,30	3,6	2.100
Policarb 2P-8mm	2	8	1,50	3,3	2.100
Policarb 2P-10mm	2	10	1,70	3,0	980-1.250-2.100
Policarb 16mm WIDE	2	16	3,90	2,5	980-1.250
Policarb 3P-10mm	3	10	2,10	2,7	980-1.250-2.100
Policarb 3P-16mm	3	16	2,70	2,3	980-1.250-2.100
Policarb 3P-20mm	3	20	3,20	2,1	980-1.250-2.100
Policarb 4P-6mm	4	6	1,40	3,1	2.100
Policarb 4P-8mm	4	8	1,55	2,7	2.100
Policarb 4P-10mm	4	10	1,75	2,5	2.100
Policarb 5P-16mm RDC	5	16	2,55	2,1	980-1.250-2.100
Policarb 5P-20mm RDC	5	20	3,10	1,8	980-1.250-2.100
Policarb 5P-25mm RDC	5	25	3,30	1,6	980-1.250-2.100
Policarb 6W-16mm	6	16	2,80	1,8	980-2.100
Policarb 6W-20mm	6	20	3,10	1,6	980-2.100
Policarb 6W-25mm	6	25	3,30	1,4	980-2.100
Policarb 7W-25mm	7	25	3,40	1,4	1.250
Policarb 7W-32mm	7	32	3,70	1,2	1.250
Policarb 7W-40mm	7	40	3,90	1,1	1.250

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Polycarbonate

PoliComp® Scudo®

POLYCARBONATE SOLID SHEETS WITH U.V. PROTECTION ON BOTH SIDES
high versatility for work in construction and industry

← 2.500mm →

DESCRIPTION

The development of extrusion technology has allowed the construction of a unique plant in Europe for the production of solid polycarbonate sheets of various thicknesses and colors, up to 2,500 mm wide.

The polycarbonate product range is divided into solid Policomp® sheets, with UV protection on both sides, and Scudo® sheets, without UV protection, ideal for industrial applications.

LIGHTNESS

Compared to normal glass structures, Policomp® and Scudo® sheets considerably reduce the weight of the structures.

A solid polycarbonate sheet weighs 50% less than a sheet of glass of the same thickness.

ADVANTAGES

❖ **Only plant that produces up to 2.500 width**

❖ **Impact resistance**

❖ **Resistance to U.V. rays and to hail**

❖ **Light transmission**

PRODUCTION STANDARDS

Product available with IR treatment IR

THICKNESS (mm)	2	3	4	5	6	8	10	12	15
Weight (Kg/m²)	2,4	3,6	4,8	6,0	7,2	9,6	12,0	14,4	18,0
Width (mm)				2.050 - 2.500					
Lenght (mm)				6.100					

LIGHT TRANSMISSION (%)									
transparent	91	90	90	90	88	86	80	80	80
bronze	-	44	48	51	50	-	-	-	-
green	-	-	28	-	42	-	-	-	-
blue	-	-	-	-	11	-	-	-	-
opal	-	53	50	40	38	-	-	-	-

THERMAL INSULATION U (W/m²K)									
Policomp	5,66	5,49	5,33	5,21	5,09	4,84	4,61	4,35	3,48

LIGHT TRANSMISSION

Policomp® sheets have good light transmission properties and are also available in bronze and opal.

COEXTRUSION

A layer of high-performing UV absorber is coextruded onto both sides of Policomp® sheets. It filters the light and protects the polymer against the effects of aging, ensuring excellent impact strength even after prolonged exposure to sunlight.

SAFETY

Scudo® sheets are used in safety glazing applications, for machine tool guards. Policomp® sheets are used instead for roofing, vertical windows and advertising signs.

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Polycarbonate

TEGOLUX®

CORRUGATED U.V. PROTECTED POLYCARBONATE SOLID SHEETS

for translucent curtain walls and roofing application

TECHNICAL FEATURES

Thickness	1,0 mm
Light transmission	90%
U.V. protection	Coextrusion
Linear thermal expansion	0,065 mm/m°C
Temperature range	-40 ÷ 120 °C
Fire reaction EN 13501	EuroClass B-s1,d0

DESCRIPTION

TEGOLUX® is a corrugated solid polycarbonate sheet produced in various sections for the realization of skylights, walls, translucent covers and may be matched with roofing sheets and insulated panels.

The versatility of this product allows you to create gutter ridge as well as transversal skylights.

ADVANTAGES

- ❖ **Transverse and longitudinal overlap**
- ❖ **Self-extinguishing**
- ❖ **Resistance to U.V. rays**
- ❖ **Light transmission**

PROFILES

250mm

112mm

(U.V. Protection on both sides)

76mm

76mm
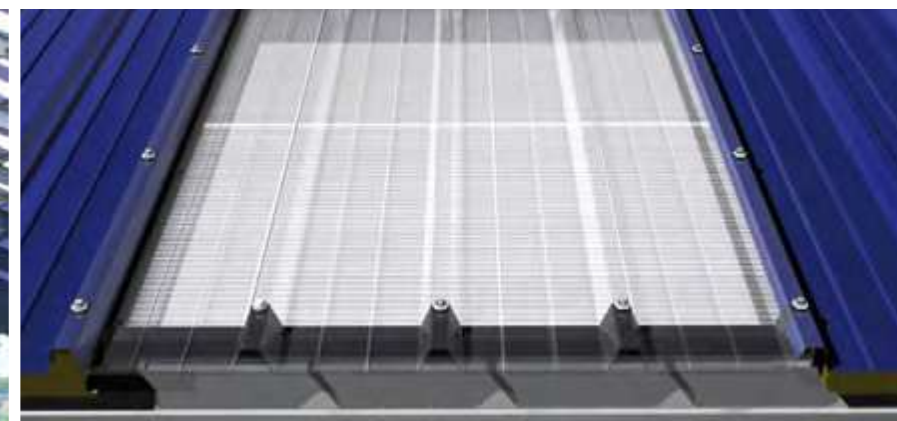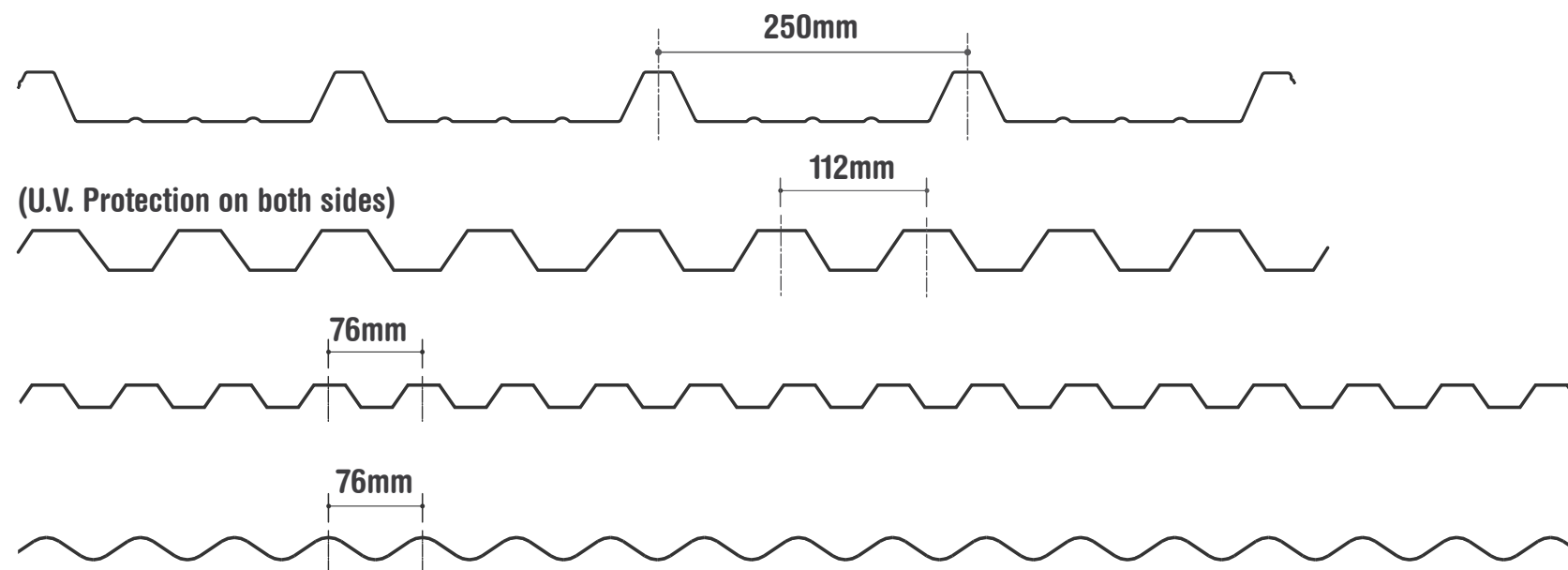
COMPATIBLE WITH:

The profiles in polycarbonate TEGOLUX® are compatible with the most common insulating panels for coverage, such as: Isolpack DELTA5, Isopan ISO-COP5-1000, Marcegaglia TD5, Italpannelli PENTA01, Lattonedil EURO5, Alubel28, Greca76/18, Onda 76/18.

For more information on product compatibility, contact the technical sales office of dott.Gallina.

LIGHT TRANSMISSION

The corrugated sheets TEGOLUX®, unlike other products, allow a maximum light transmission throughout the day.

The minimum support structures, the high transparency and the trapezoidal shape of the profile, make TEGOLUX® the ideal product for the diffusion of natural light inside the building.

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Polycarbonate

arcoPlus®

INTERLOCKING MODULAR SYSTEMS
for roofing applications, continuous translucent glazing and false ceilings

TECHNICAL FEATURES

	THICKNESS	STRUCTURE	WIDTH	U VALUE
	mm	walls	mm	W/m²K
arcoPlus324	20	4	333	1,8
arcoPlus625	20	5	667	1,7
arcoPlus344x	40	4	333	1,9
arcoPlus347	40	7	333	1,1
arcoPlus547	40	7	500	1,1
Velario 613	10	3N	605	2,7
Velario 20-5	20	5	667	1,7
Fire reaction EN 13501				EuroClass B-s1,d0

DESCRIPTION

This modular systems all have a tongue and groove connector system. The structure is specifically designed to ensure a weatherproof finish. They are particularly suitable for roofing applications, continuous translucent glazing and false ceilings.

ADVANTAGES

❖ Self-extinguishing
❖ Light transmission
❖ Resistance to U.V. rays and to hail
❖ Thermal insulation

CURTAIN WALLS SYSTEMS

Product available in the series **Caleido**

arcoPlus®324   th.20mm
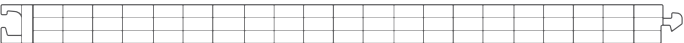
arcoPlus®625   th.20mm
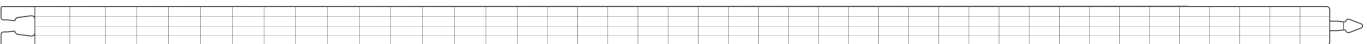
CURTAIN WALLS AND ROOFS SYSTEMS

Product available in the series **Caleido** **IR** **AR**

arcoPlus®344x   th.40mm

arcoPlus®347   th.40mm
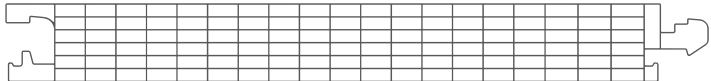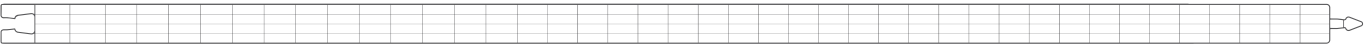
arcoPlus®547   th.40mm
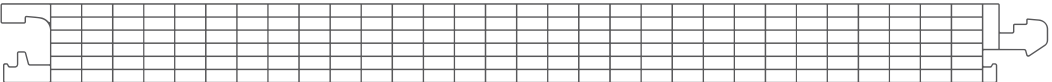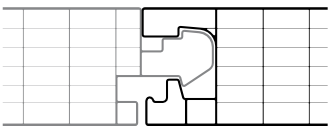
FALSE CEILINGS SYSTEMS
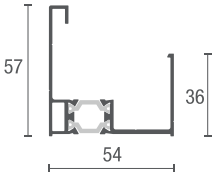
Velario®613   th.10mm
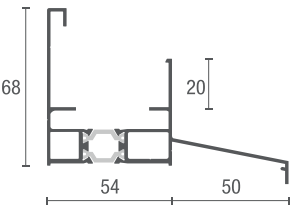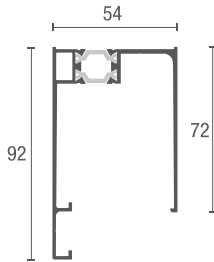
Velario®20-5   th.20mm
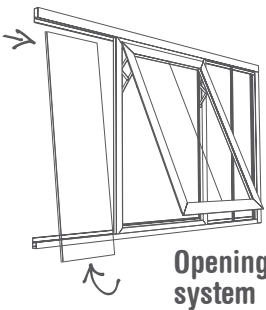
Opening system

Detail joint arcoPlus547

Base thermal break profile TT in AL

Base thermal break profile TT with eave in AL

Upper and side thermal break profile TT in AL

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Polycarbonate

arcoPlus®

CONNECTOR
MODULAR SYSTEMS
large areas roofing , translucent
windows and glazing applications

TECHNICAL FEATURES

	THICKNESS STRUCTURE		WIDTH	U VALUE
	mm	walls	mm	W/m²K
arcoPlus684	8	4	600	3,3
arcoPlus6104	10	4	600	3,0
arcoPlus6124	12	4	600	2,7
arcoPlus626	20	6	600	1,7
Fire reaction EN 13501	EuroClass B-s1,d0			

DESCRIPTION

Modular systems provided with a specific connector, depending on the type of application.
It is particularly suitable in roofing of large areas, translucent façades and glazing applications.

ADVANTAGES

❖ Easy and low-cost installation
❖ Self-extinguishing
❖ Light transmission
❖ Resistance to U.V. rays and to hail
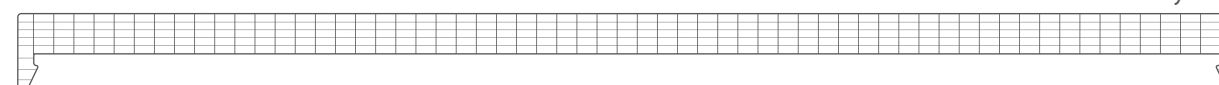❖ Thermal insulation

FLAT SELF-SUPPORTING SYSTEMS

Caleido IR AR

arcoPlus®684-6104-6124   th.8-10-12mm - Minimum bend radius R.2,0m
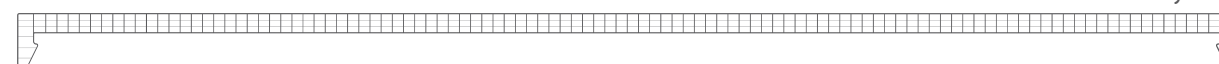
arcoPlus®626   th.20mm - Minimum bend radius R.4,0m
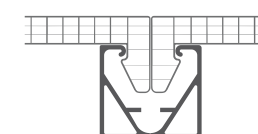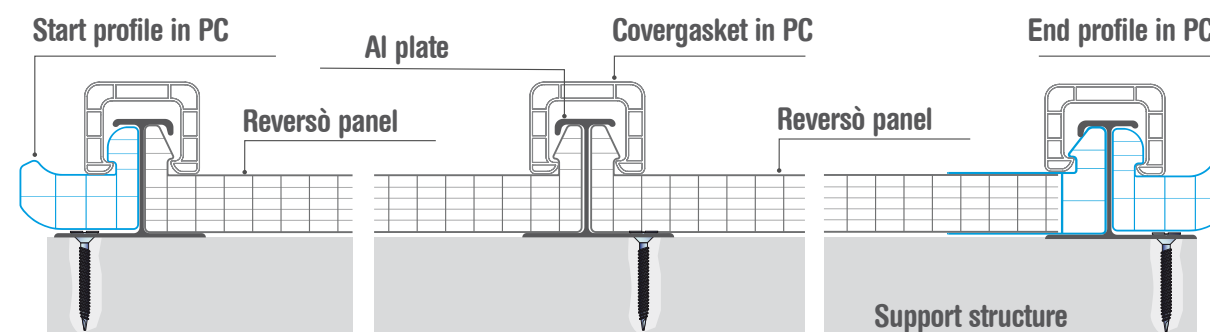
REVERSÒ SYSTEMS (U.V. protection on both sides)

Caleido IR AR

arcoPlus®684-6104-6124 Reversò   th.8-10-12mm

arcoPlus®626 Reversò   th. 20mm

Start profile in PC   Covergasket in PC   End profile in PC
Al plate   Reversò panel   Reversò panel
Support structure
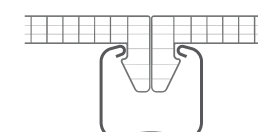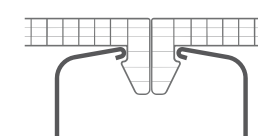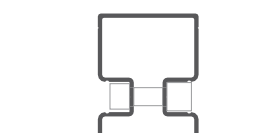
Reinforced AL profile

Square 32mm tube

Square 62mm tube

Covergasket in PC

Connector AL profile

arcoPlus®

OVERLAPPING MODULAR SYSTEMS

for the realization of skylights matched with insulated metal panels; of roofing and of continuous windows

TECHNICAL FEATURES

	THICKNESS	STRUCTURE	WIDTH	U VALUE
	mm	walls	mm	W/m²K
arcoPlus1000	8÷12	3	990±5	2,7
arcoPlusSuper1000	13÷20	5	1.000±15	1,8
arcoPlusGrecaClick	8	3	1.000±5	3,0
arcoPlusMiniGreca	8	3	1.000±5	3,0
arcoPlusOnda	6	3N	1.097	3,2
Fire reaction EN 13501			EuroClass B-s1,d0	

ADVANTAGES

❖ High load resistance
❖ Self-extinguishing
❖ Light transmission
❖ Resistance to U.V. rays and to hail
❖ Longitudinal overlap

anchorage MiniGreca
screw with cap
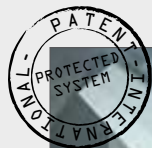
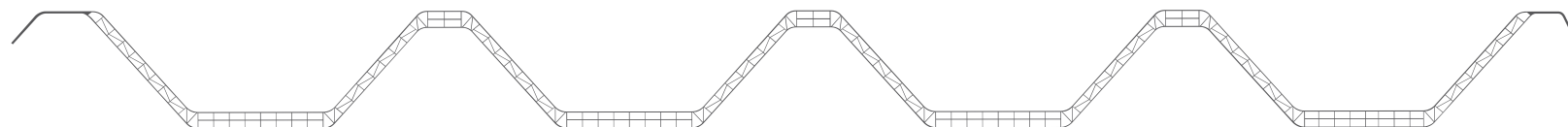**anchorage GrecaClick**
pressing onto bracket

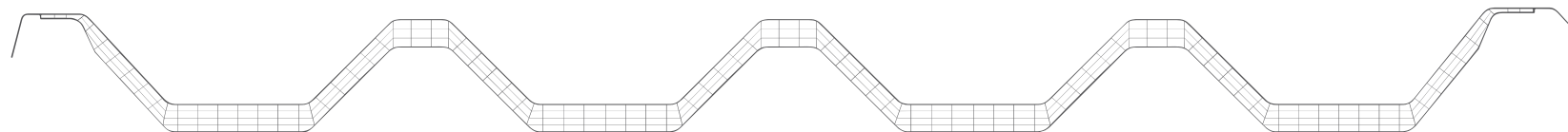PATENT PROTECTED SYSTEM INTERNATIONAL

PROFILES

arcoPlus®1000
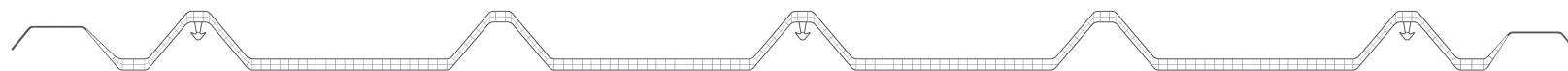th.8÷12mm - available bent R.3.300 - R.6.000mm

arcoPlus®Super1000
th.13÷20mm - available bent R.3.300 - R.6.000mm

arcoPlus®GrecaClick
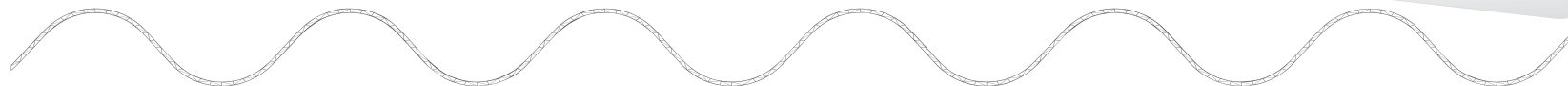th.8mm - anchorage by pressing onto anchor bracket

arcoPlus®MiniGreca
th.8mm - available bent R.3.500mm

arcoPlus®Onda
th.6mm - available bent R.3.500mm

DESCRIPTION

This group of wall and roofing products can be used in continuous applications or with other insulated metal panels and corrugated sheets or panels.

Their structural design and the use of a specific range of accessories guarantee a weatherproof finish.

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TEGO Plus®

U.V. PROTECTED POLYCARBONATE CORRUGATED SHEETS WITH "MICROALVEOLAR" STRUCTURE
for roofing and transparent curtain walls

TECHNICAL FEATURES

Thickness	2,5 - 3,0 mm
Thermal insulation	4,6 W/m² K
Light transmission	Crystal 85% - Opal 70%
UV rays protection	Coextrusion
Linear thermal expansion	0,065 mm/m°C
Temperature range	-40 ÷ 120 °C
Fire reaction EN 13501	EuroClass B-s1,d0

DESCRIPTION

TEGOPLUS® corrugated sheet of polycarbonate "microalveolare" structure produced in different profiles for the construction of skylights, walls, transparent roofs also in combination with cover plates and insulated panels. The versatility of this product allows you to create skylights, gutter-ridges or eave inter-layers.

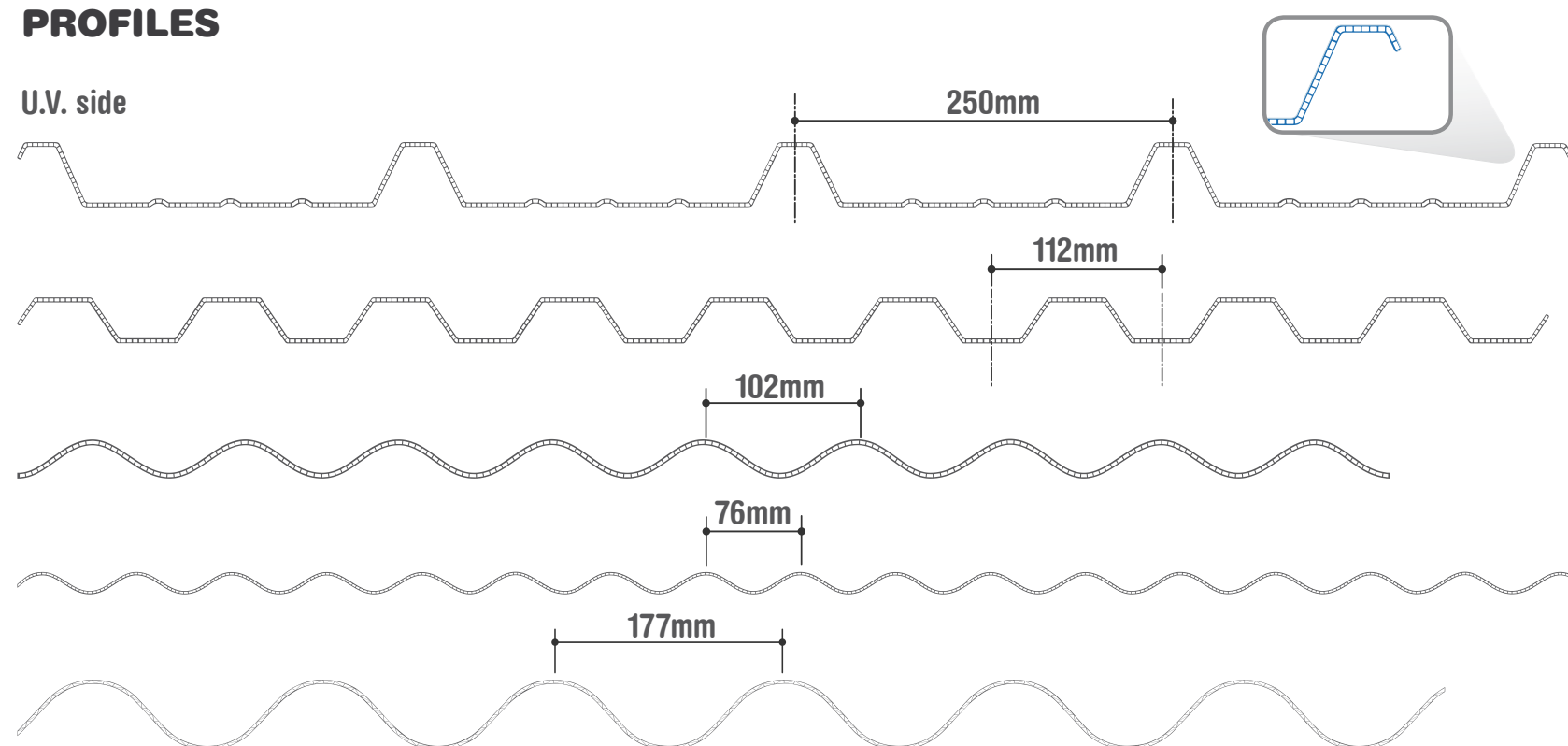**N.B.** TEGOPLUS® corrugated sheets can be supplied with thermowelded ends.

ADVANTAGES

❖ **Transverse and longitudinal overlap**
❖ **Self-extinguishing**
❖ **Resistance to U.V. rays**

PROFILES

U.V. side

250mm

112mm

102mm

76mm

177mm

COMPATIBILITY

Corrugated polycarbonate sheets TEGOPLUS® are compatible with the most widespread insulating roofing panels, such as: Isolpack DELTA5, Lattonedil EURO5, Isopan ISOCOP5-1000, Marcegaglia TD5, Italpannelli PENTA01, Alubel28, Onda102/25, Onda76/18, Onda 177/51.
For more information about the compatibility of these products please contact directly dott. Gallina's technical sales office.

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