

STRONG AND
BRIGHT





CUTTING-EDGE POLYCARBONATE SOLUTIONS FOR AN EVER-EVOLVING CONSTRUCTION INDUSTRY



Poly World Systems represents the perfect synthesis of the thirty years experience in the extrusion field and know-how in the building products of its staff, grown up in twenty years of activity in the field.

Poly World Systems offers a full range of polycarbonate systems for walls, roofs, sheds, false ceilings, suspended ceilings, internal partitions, greenhouses and all those typical industrial building applications but not only by finding extensive use in sports halls, shopping malls and farms.

All products are the result of continuous researches and improvements over time for a constantly evolving market, collaborating with our partners and developing together the solutions that best suit the applications you require.



COLOUR RANGE

On request, all Poly World Systems products can be supplied in a wide range of colors (subject to minimum order quantity) and new colours can be developed on customer specifications



PRODUCT CERTIFICATIONS

The products are tested by international official laboratories.

PRODUCTS

ONDA

Multiwall corrugated sheets

p.6

GRECA

Multiwall corrugated sheets

p.10

COVERTECH

Multiwall panels for industrial roofings

p.14

SYSTEM

Self supporting system for roofings and vertical glazings

p.18

REVERS

Modular system for roofings

p.24

WALL

Modular system for vertical glazings and curtain walls

p.30

CEILING

Modular system for false ceilings

p.36

RADIUS 1000

Self supporting curved panel for skylights

p.38

LIGHT

Multiwall corrugated sheets (thickness 2,5 mm)

p.42

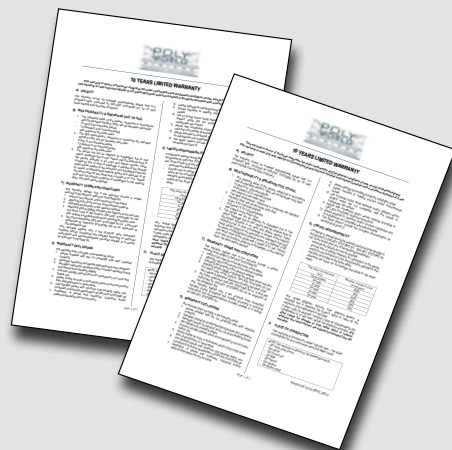
TOPLIGHT

Solid corrugated sheets

p.52

WARRANTY

Most of Poly World Systems products are covered by a ten-year warranty on yellowing, loss of light transmission and hail resistance (ask for a copy of the exact warranty terms at our sales offices)



USE AND MAINTENANCE

STORAGE

Products must be stored covered protecting them from direct sunlight and atmospheric agents.

INSTALLATION

Products must be installed ensuring that the UV protected side is always exposed to the sun.

The protective film should be removed immediately after installation.

SAFETY DURING INSTALLATION

Don't walk directly on the sheets carefully follow all safety rules during installation.

PRODUCT CARE

Polycarbonate can be damaged by some chemicals products, causing premature aging and / or breakage. Only use compatible silicones for sealing; the cleaning of the sheets have be done using only water and suitable detergents. Do not use bituminous products / joints in contact with polycarbonate products.

CUTTING AND DRILLING

Cutting of the products can be performed "on site" with cutter and / or alternative saw and / or circular saw. After cutting, clean the inner chambers with compressed air and close the open sides with adhesive aluminium tape.

Drilling of the sheets can be done using a suitable drill and tips. In any case, the hole should be approximately 3 mm larger than the screw in order to absorb the thermal expansion of the sheets (more detailed specifications are given in our technical manuals or can be required to our technical office).

BENDING

Some Poly World Systems products can be cold bended "on site". Sheets have to be bended in the direction of the chambers, taking care of the minimum bending radius of the specific product.

CLOSING OF HEADS

The heads of the sheets can be either heat-sealed or taped to reduce the risk of dirty and / or condensation inside the chambers.

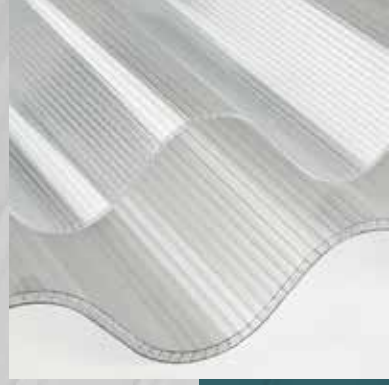
Both solutions don't remove the air inside the chambers, so condensation spots may appear, both inside and outside the sheets, in the presence of particular climatic conditions and / or relative air humidity.

The presence of condensation is not related to the quality of the product and no claims will be accepted for this issue.

RESISTANCE AGAINST CHEMICALS

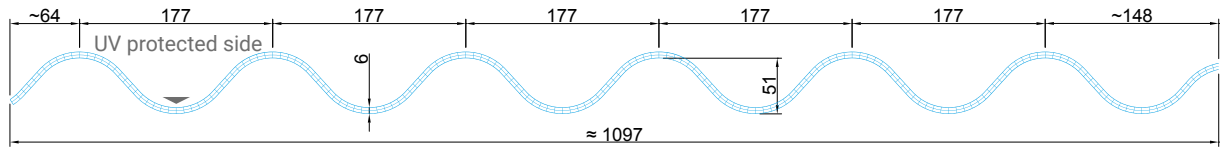
CHEMICALS	CHANGE
INORGANIC SALTS	
Sodium chloride 10%	Unchanged
Potassium nitrate 10%	Unchanged
Potassium bichromate 10%	Yellowing
Sodium sulphate 10%	Unchanged
Ammonium chloride	Unchanged
Sodium bicarbonate 10%	Surface cracking
INORGANIC ACIDS	
Hydrochloric acid 35%	Cracking
Hydrochloric acid 10%	Unchanged
Sulphuric acid 70%	Unchanged
Sulphuric acid 30%	Unchanged
Nitric acid 40%	Yellowing
Nitric acid 10%	Yellowing
Chromic acid 10%	Unchanged
Concentrated hydrofluoric acid	Unchanged
ALKALIS	
Sodium hydrate 1%	Unchanged
Sodium hydrate 10%	Light clouding
Ammonium hydrate 10%	Darkening and disintegration
Calcium hydrate 10%	Unchanged
ORGANIC ACIDS	
Acetic acid 70%	Unchanged
Acetic acid 10%	Unchanged
Formic acid 30%	Unchanged
Lactic acid 5%	Unchanged
Oxalic acid 10%	Unchanged
Benzoic acid 10%	Unchanged
Oleic acid 100%	Unchanged
LUBRICATING OILS	
Silicone oil	Unchanged
Paraffin oil	Unchanged
Machine oil	Unchanged
PLASTICIZERS	
Tricresyl phosphate	Light clouding
Diocetyl adipate	Unchanged
Diocetyl phthalate	Unchanged
Butyl stearate	Unchanged
Acid trimethyl esters	Unchanged
ALCOHOLS	
Methyl alcohol	Surface cracking
Ethyl alcohol 50%	Unchanged
n-Butanol	Unchanged
Ethylene glycol	Unchanged
VARIOUS	
Benzole	Rapid decomposition
Toluol	Rapid decomposition
Industrial petrol	Yellowing, opacifying and cracking
Kerosene	Unchanged
Diesel oil	Unchanged
n-Heptane	Unchanged
Cyclohexane	Unchanged
Methyl isobutyl ketone	Clouding and softening
Butyl acetate	Clouding and softening
Methyl methacrylate	Clouding and softening
Acrylonitrile	Rapid decomposition
Vinyl acetate	Clouding and softening
Styrole	Clouding and softening
Ethyl ether (5 °C)	Swelling
Diethylenetriamine	Slow decomposition
Ethylenediamine	Slow decomposition
Triethanolamine	Surface cracking
Phenol 5%	Yellowing and opacifying
Cresol	Unchanged
Formalin	Unchanged
Hydrogen dioxide 10%	Light yellowing
Triammoniumcitrate (pH = 9)	Unchanged
Triammoniumcitrate (pH = 5)	Unchanged

Testing temperature = + 23 °C

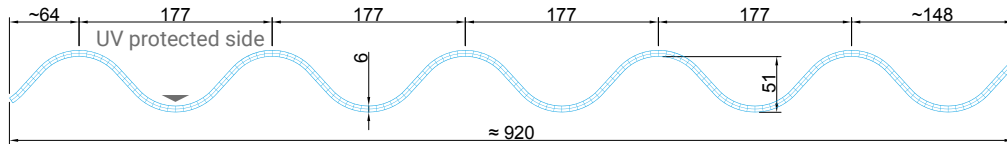


ONDA

POLYCARBONATE MULTIWALL CORRUGATED SHEETS WITH COEXTRUDED UV PROTECTION



Onda 177-51-6 mm (1097 mm)



Onda 177-51-6 mm (920 mm)



Sheets can be provided (on request) with coextruded gasket on side to provide a better air and watertightness on the overlap.

ONDA CHARACTERISTICS

Thickness	6 mm	
Structure	3 walls	
Overall width	1097 (± 5 mm)	920 (± 5 mm)
Cover width	1050 mm	870 mm
Panel length	On request (maximum recommended length 7 m)	
Estimated thermal transmittance	3,3 W/m ² K	
Service temperature	- 40 °C / + 120 °C	
UV protection	Coextruded on the external side	
Thermal expansion	65 x 10 ⁻⁶ K ⁻¹ (=0,065 mm/m °C)	
Light transmission*	Clear (0010)	72% (±5)
	Opal (0035)	50% (±5)
Warranty	Limited 10-yrs warranty against breakage due to hailstones, yellowing and loss of light transmission	

* value according to internal test method

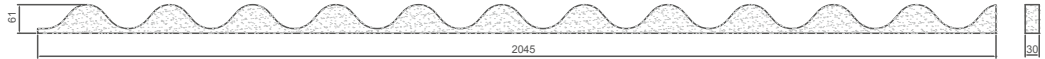
APPLICATION AND STRENGTHS

ONDA are polycarbonate multiwall corrugated sheets extruded following the European standard 177/51. The possibility to produce sheets in different widths (5 ½ waves, 6 ½ waves and 7 waves) allows various overlapping solutions to solve the many issues regarding industrial roofing. They can also be cold bent with 3500 mm radius. The corrugated structure of the product provides good load resistance, while high resistance to aging and yellowing, good impact resistance and hail is guaranteed by coextruded UV protection.

SPECIFICATIONS

Construction of flat or curved skylights (bending radius 3500 mm) with polycarbonate multiwall corrugated sheets type ONDA 177/51, thickness 6 mm, 3-walls structure, coextruded UV protection on the external layer, thermosealing of heads; Sheet width 920 mm - 1097 mm (cover width 870 mm - 1050 mm respectively), length on request; estimated thermal transmittance $U_g = 3.3 \text{ W/m}^2 \text{ K}$; ten-years limited warranty. The following accessories are available on request: PE spacer, pre-painted metal half ridge, fixing screw (for metal supports only), aluminium cap, fiberglass head.

ACCESSORIES

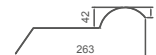


PE SPACER



ALUMINIUM CAP

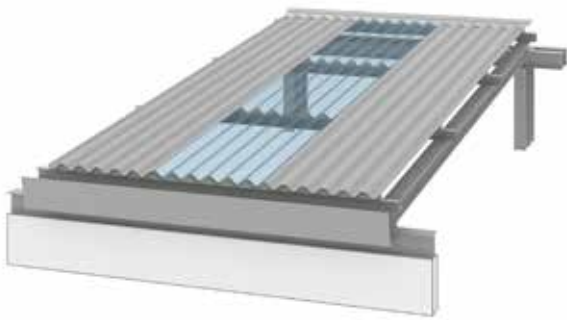
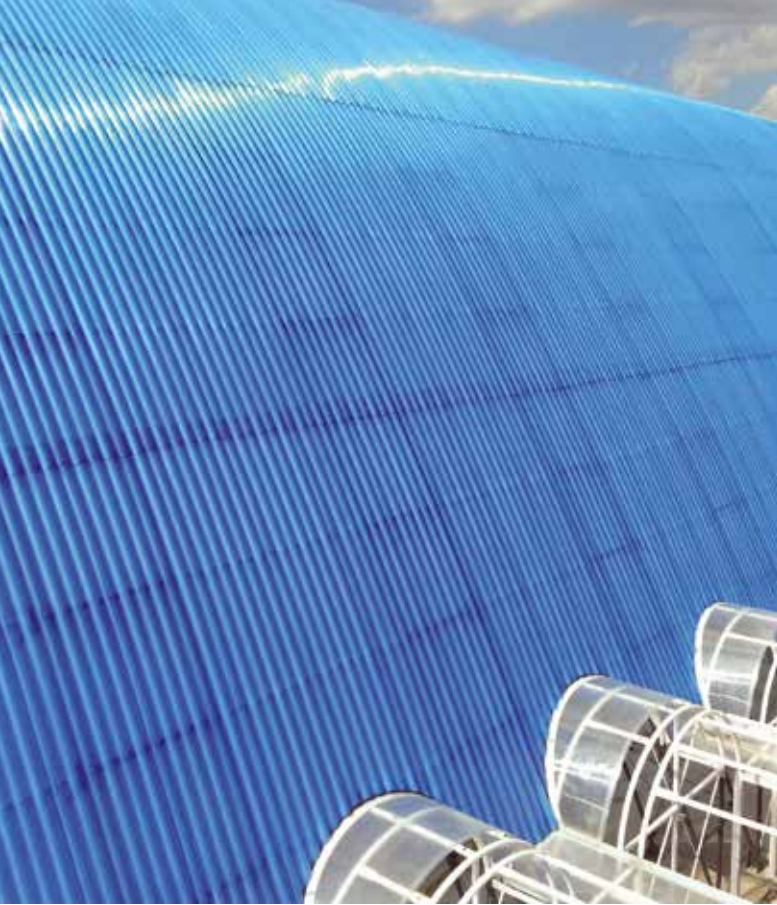
FIXING SCREW



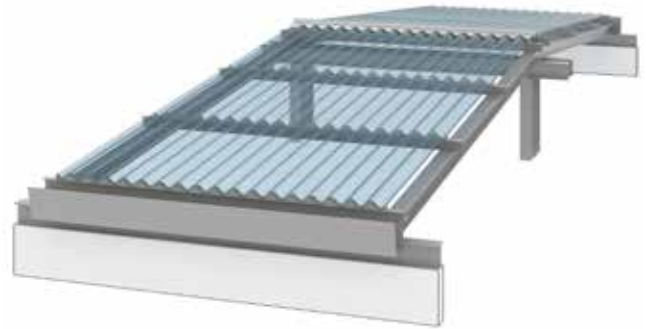
PRE-PAINTED METAL HALF RIDGE



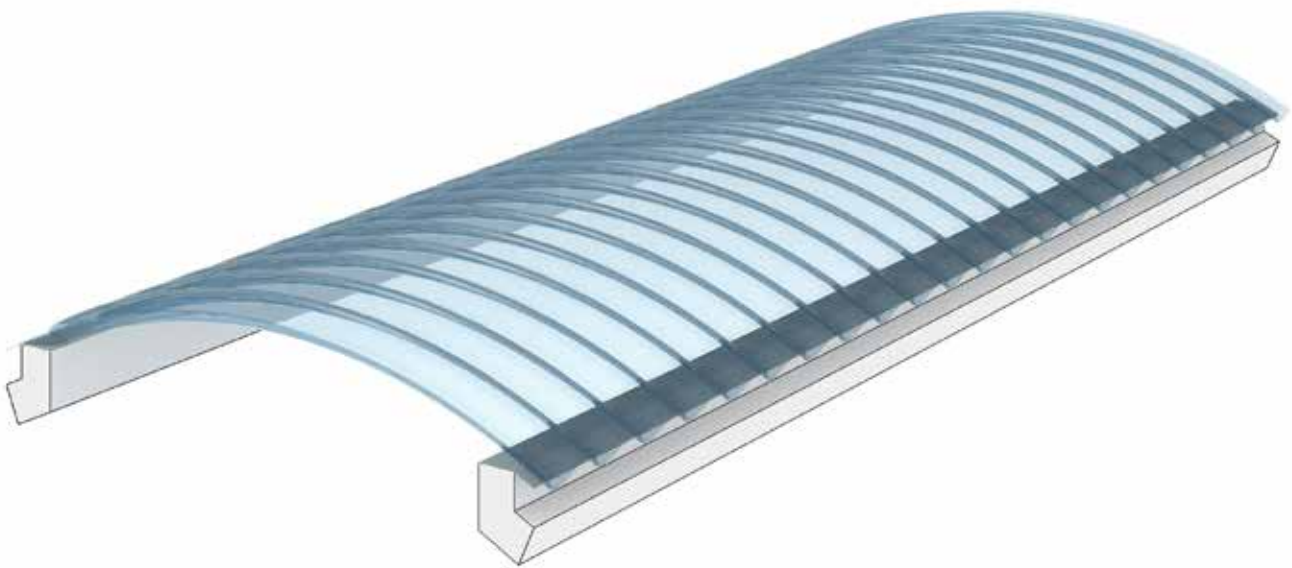
FIBERGLASS HEAD



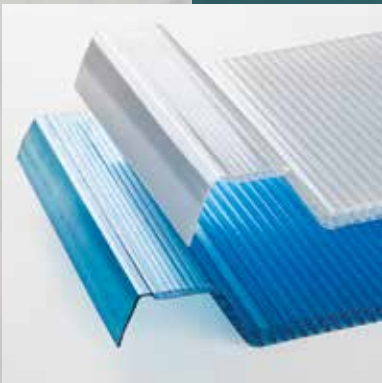
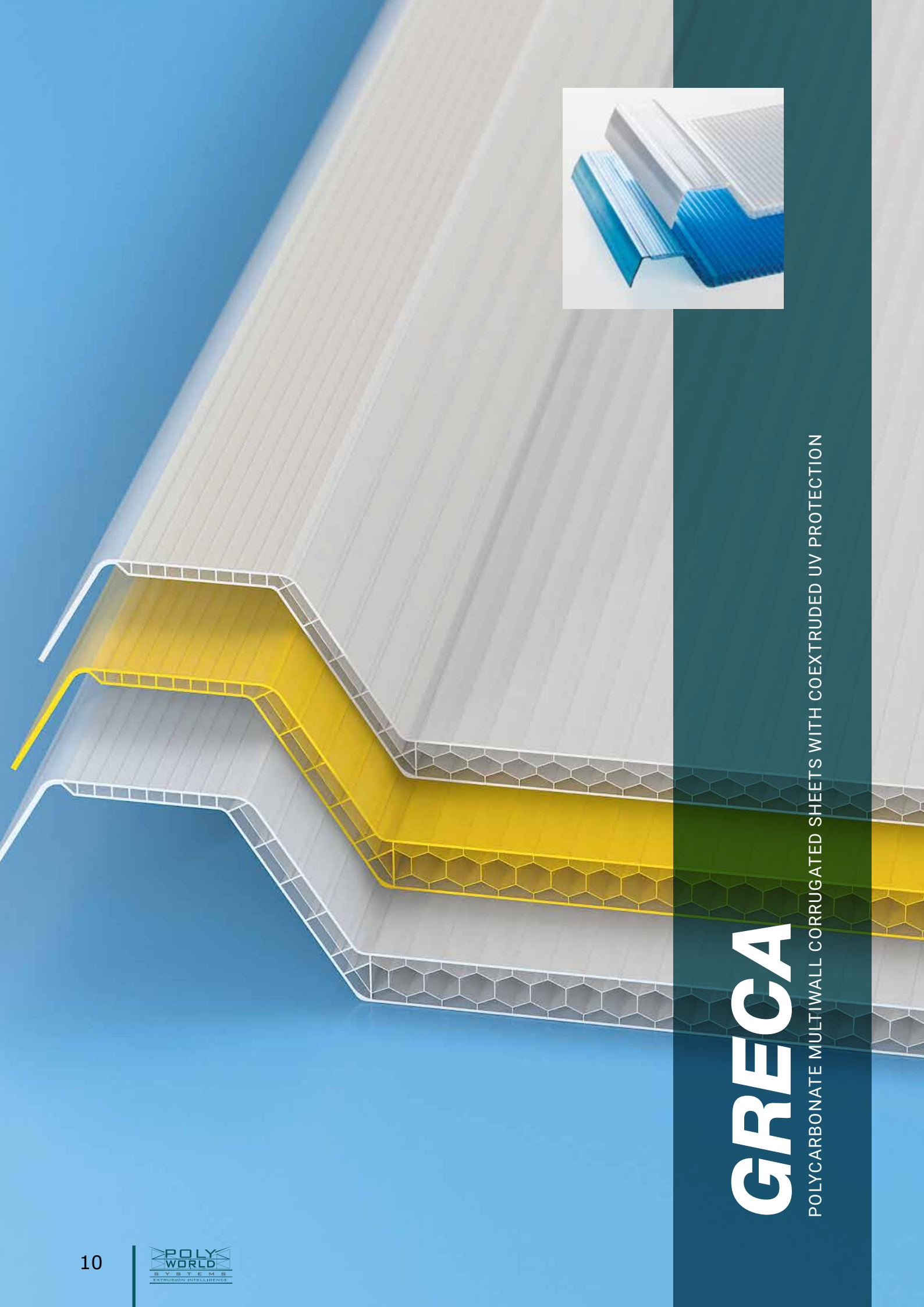
SINGLE APPLICATION



CONTINUOUS APPLICATION

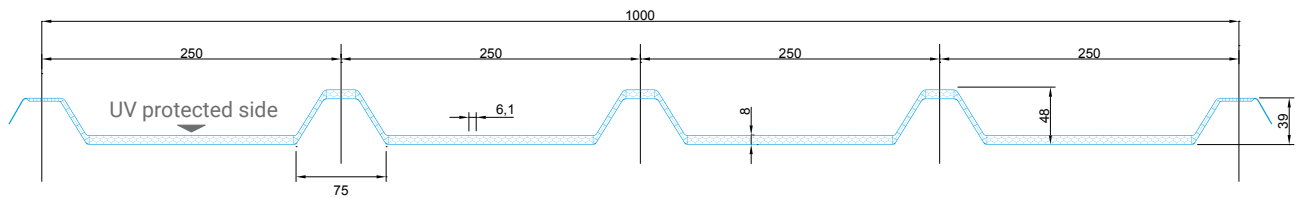


CURVED CONTINUOUS APPLICATION

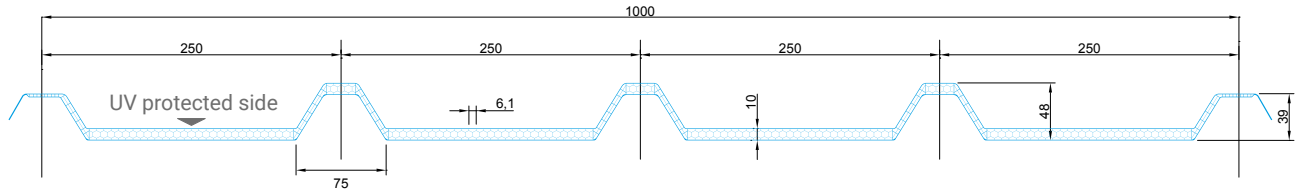


GRECA

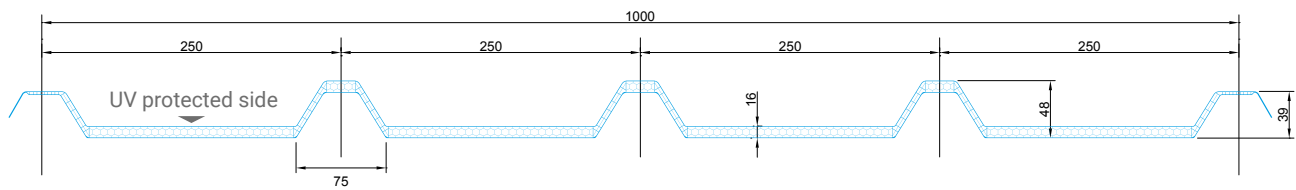
POLYCARBONATE MULTIWALL CORRUGATED SHEETS WITH COEXTRUDED UV PROTECTION



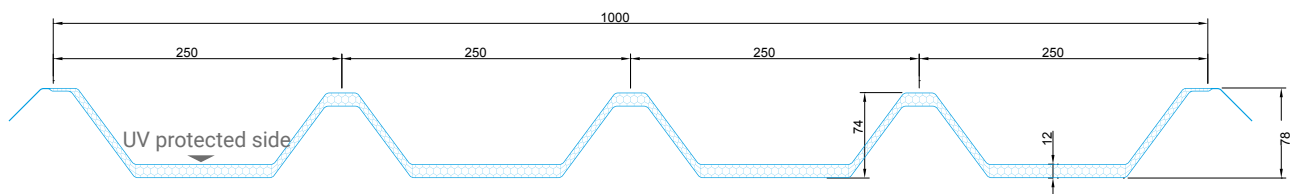
Greca 250-40-8 mm



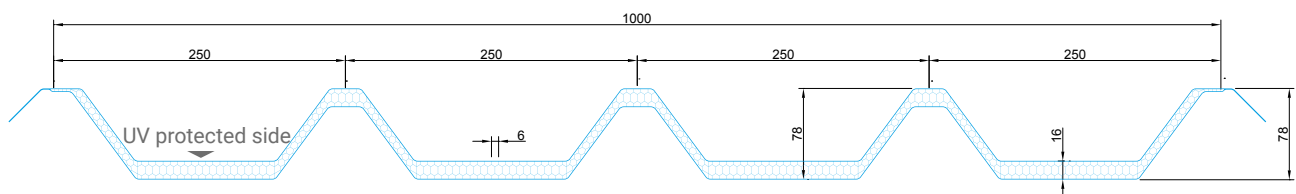
Greca 250-40-10 mm



Greca 250-40-16 mm



Greca 250-75-12 mm (based on minimum of quantity)



Greca 250-75-16 mm (based on minimum of quantity)

GRECA CHARACTERISTICS

Thickness	8 mm	10 mm	16 mm	12 mm	16 mm	
Structure	Honeycomb structure					
Depth	40 mm			78 mm		
Cover width	1000 (± 5 mm)					
Panel length	On request (maximum recommended length 7 m)					
Estimated thermal transmittance	2,7 W/m ² K	2,5 W/m ² K	2,0 W/m ² K	2,3 W/m ² K	2,0 W/m ² K	
Service temperature	- 40 °C / + 120 °C					
UV protection	Coextruded on the external side					
Thermal expansion	65 x 10 ⁻⁶ K ⁻¹ (=0,065 mm/m °C)					
Light transmission*	Clear (0010)	59% (±5)	58% (±5)	56% (±5)	72% (±5)	59% (±5)
	Opal (0035)	41% (±5)	40% (±5)	34% (±5)	55% (±5)	37% (±5)
Warranty	Limited 10-yrs warranty against breakage due to hailstones, yellowing and loss of light transmission					

* value according to internal test method

APPLICATION AND STRENGTHS

GRECA are polycarbonate multiwall corrugated sheets with an honeycomb structure and a cover width of 1000 mm. Sheets have been developed for lateral overlaps to most insulated panels and / or corrugated metal sheets available on the market. Designed for the installation of skylights both in single and multiple applications, thanks to the possibility of longitudinal and / or lateral overlapping, they are also available in thermocurved version (except GRECA 250/75), with bending radii of 3500 mm or 6000 mm.

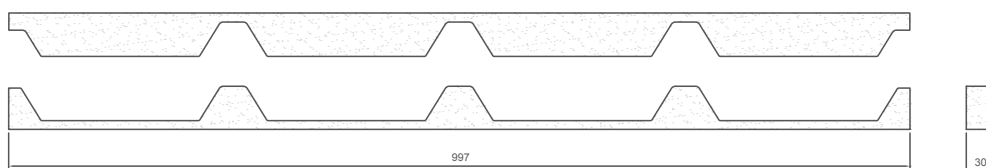
The side wing has a multiwall structure to reduce the problem of condensation. GRECA sheets have a good light transmission and, thanks to their coextruded UV protection, they guarantee a high degree of protection against UV rays, yellowing and hail damage. The corrugated shape provides good resistance to external loads (snow and / or wind), while the typical polycarbonate features provide excellent resistance to accidental shocks and temperature leaps. The system is completed by a range of accessories that complete the installation.

SPECIFICATIONS

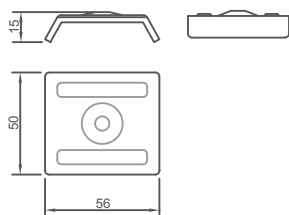
Construction of flat or curved skylights (radii 3500 mm or 6000 mm) with polycarbonate multiwall corrugated sheets type GRECA 250/40, thickness 8 mm / 10 mm / 16 mm, honeycomb structure, coextruded UV protection on the external layer, thermosealing of heads; cover width of 1000 mm, length on request; estimated thermal transmittance $U_g = 2,7 \text{ W/m}^2 \text{ K}$ (for 8 mm thick.) / $U_g = 2,5 \text{ W/m}^2 \text{ K}$ (for 10 mm thick.) / $U_g = 2,0 \text{ W/m}^2 \text{ K}$ (for 16 mm thick.); ten-years limited warranty. The following accessories are available on request: PE spacer (upper and / or lower), pre-painted metal half ridge, fixing screw (for metal supports only), aluminium caps, fiberglass head.

Construction of flat skylights with polycarbonate multiwall corrugated sheets type GRECA 250/75, thickness 12 mm / 16 mm, honeycomb structure, coextruded UV protection on the external layer, thermosealing of heads; cover width of 1000 mm, length on request; estimated thermal transmittance $U_g = 2,3 \text{ W/m}^2 \text{ K}$ (for 12 mm thick.) / $U_g = 2,0 \text{ W/m}^2 \text{ K}$ (for 16 mm thick.); ten-years limited warranty. The following accessories are available on request: PE spacer (upper and / or lower), pre-painted metal half ridge, fixing screw (for metal supports only), aluminium caps.

ACCESSORIES



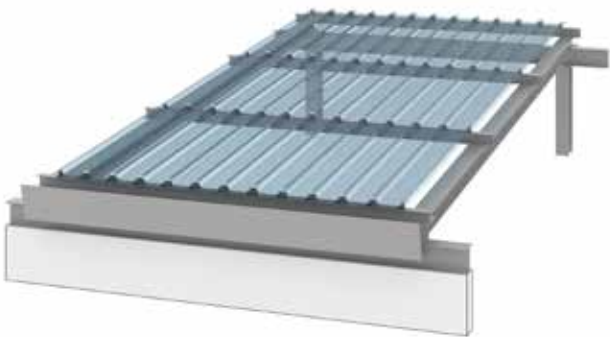
PE SPACER



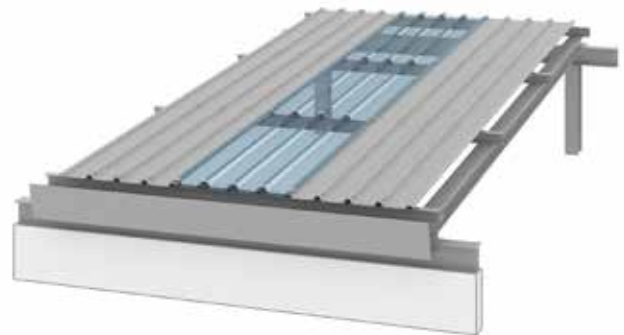
ALUMINIUM CAP



FIXING SCREW



CONTINUOUS APPLICATION

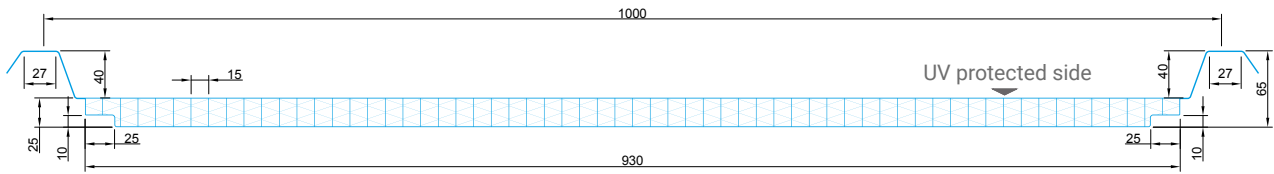


SINGLE APPLICATION

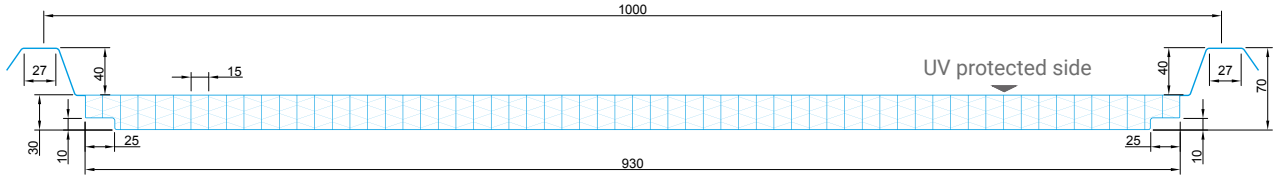
COVERTECH

POLYCARBONATE MULTIWALL PANELS WITH COEXTRUDED UV PROTECTION, FOR INDUSTRIAL ROOFINGS

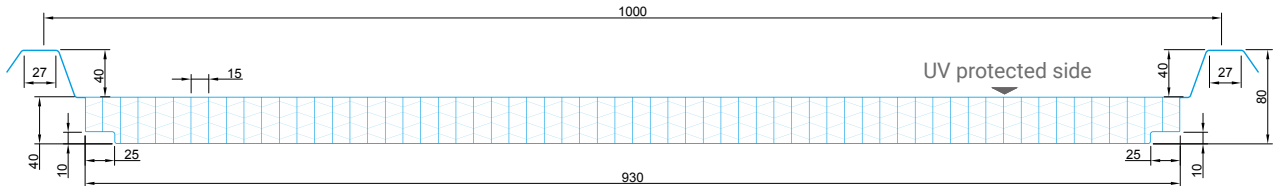




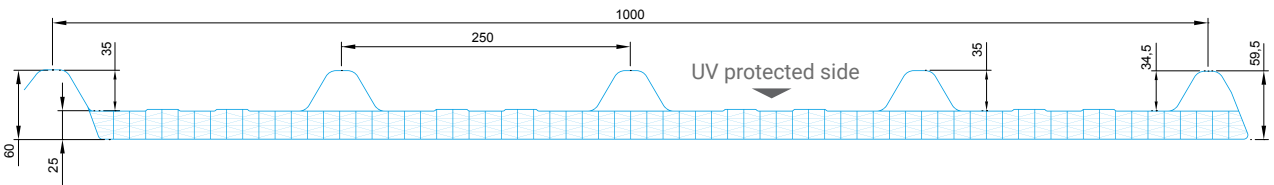
CoverTech 25



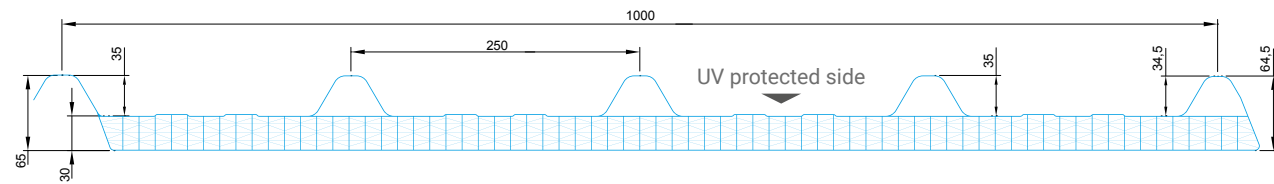
CoverTech 30



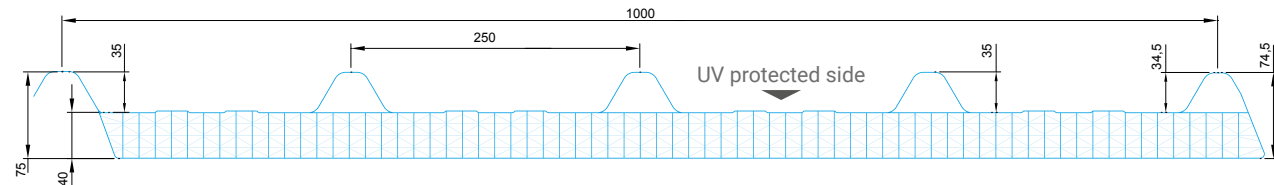
CoverTech 40



CoverTech RX25



CoverTech RX30



CoverTech RX40

COVERTECH CHARACTERISTICS

Thickness	25 mm	30 mm	40 mm	RX25 mm	RX30 mm	RX40 mm
Structure	double X			9 walls double X		
Cover width	1000 ± 5 mm					
Panel length	On request (maximum recommended length 7 m)					
Estimated thermal transmittance	1,7 W/m ² K	1,4 W/m ² K	1,2 W/m ² K	1,6 W/m ² K	1,3 W/m ² K	1,1 W/m ² K
Service temperature	- 40 °C / + 120 °C					
UV protection	Coextruded on the external side					
Thermal expansion	65 x 10 ⁻⁶ K ⁻¹ (=0,065 mm/m °C)					
Light transmission*	Clear (0010)	64% (±5)	58% (±5)	54% (±5)	64% (±5)	58% (±5)
	Opal (0035)	46% (±5)	42% (±5)	40% (±5)	46% (±5)	42% (±5)
Warranty	Limited 10-yrns warranty against breakage due to hailstones, yellowing and loss of light transmission					

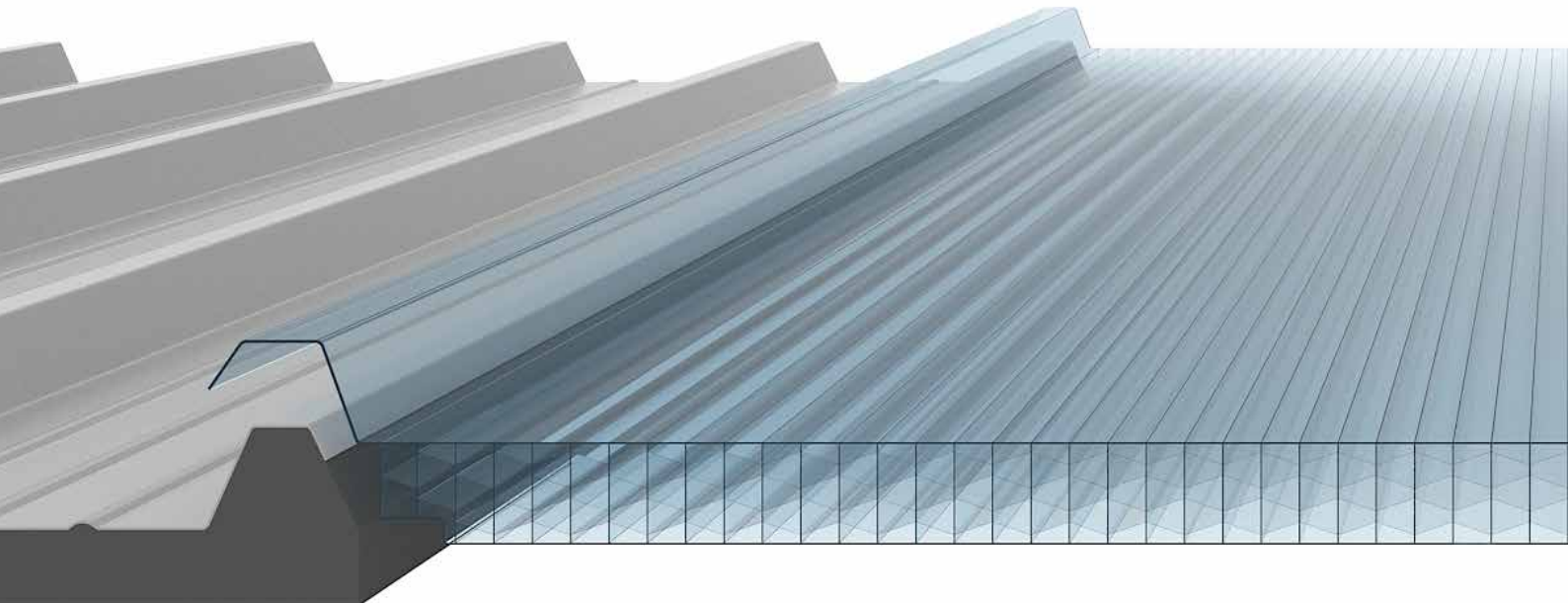
* value according to internal test method

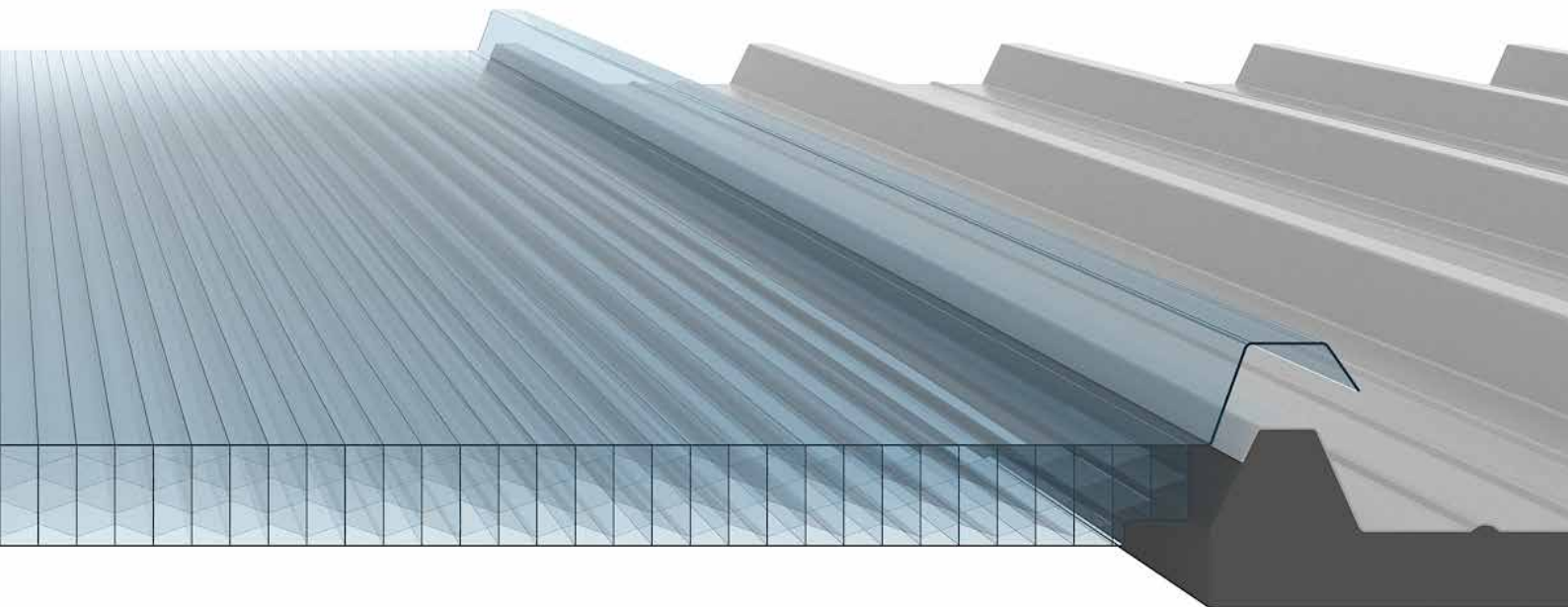
APPLICATION AND STRENGTHS

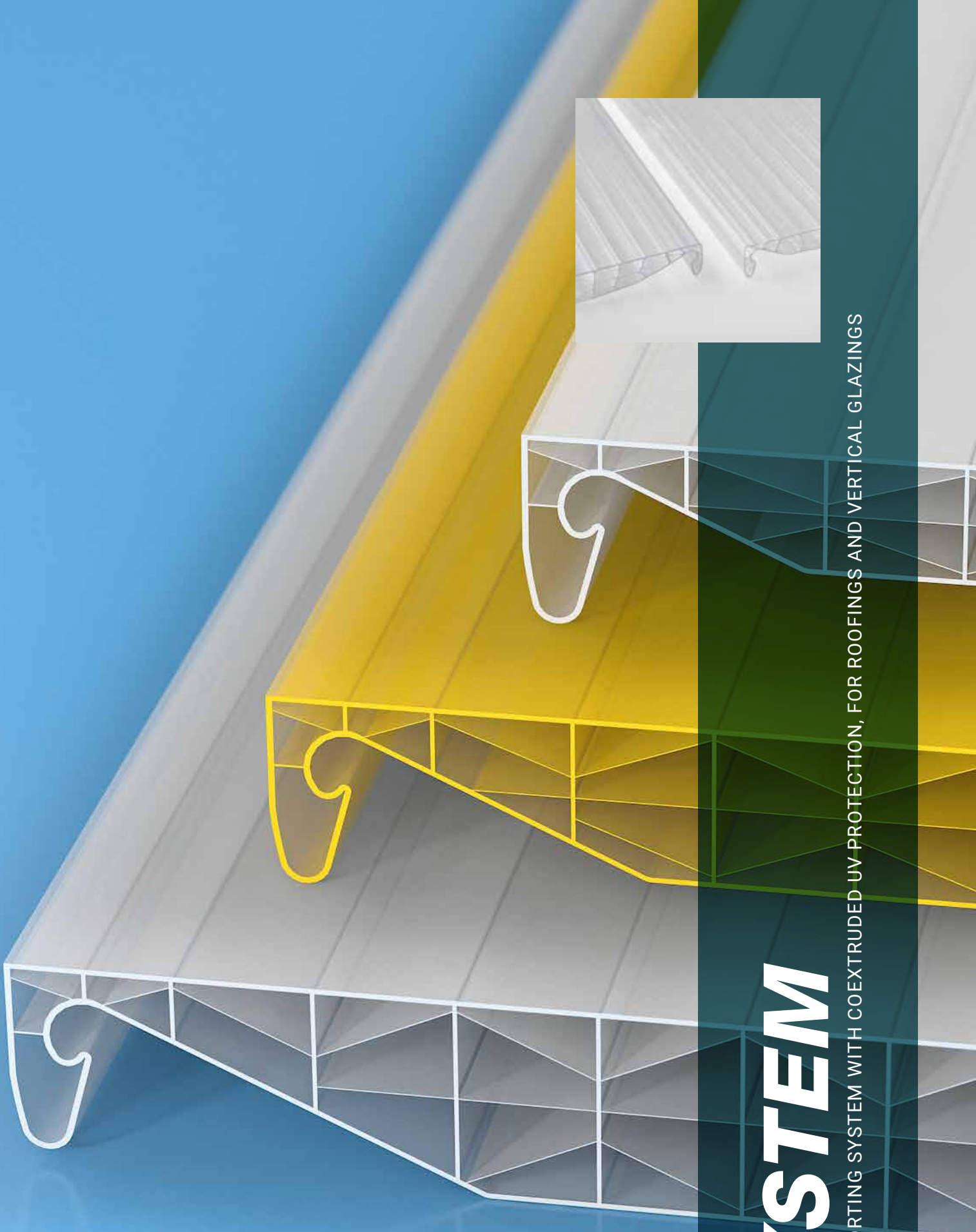
COVERTECH panels are designed to facilitate the installation of skylights into the most common insulated panels on the market. The different thicknesses available (25 mm - 30 mm - 40 mm) make the system adaptable to most panel thicknesses, providing good thermal insulation and light transmission. It is possible to make skylights even on long slopes by carefully verifying the required expansion spaces. We always suggest to install a metal flashing cap to protect the side wings. Good load resistance, coextruded UV protection on the external layer and the usual ten-years limited warranty of the products complete the features of these panels.

SPECIFICATIONS

Construction of roofs and / or single skylight from ridge to eaves with polycarbonate multiwall panel type COVERTECH, thickness 25 mm / 30 mm / 40 mm, double X structure, coextruded UV protection on the external layer, closing of heads with aluminium adhesive tape (microperforated tape available on request); cover width of 1000 mm, length on request; estimated thermal transmittance $U_g = 1,7 \text{ W/m}^2 \text{ K}$ (for 25 mm thick.) / $U_g = 1,4 \text{ W/m}^2 \text{ K}$ (for 30 mm thick.) / $U_g = 1,2 \text{ W/m}^2 \text{ K}$ (for 40 mm thick.); ten-years limited warranty.

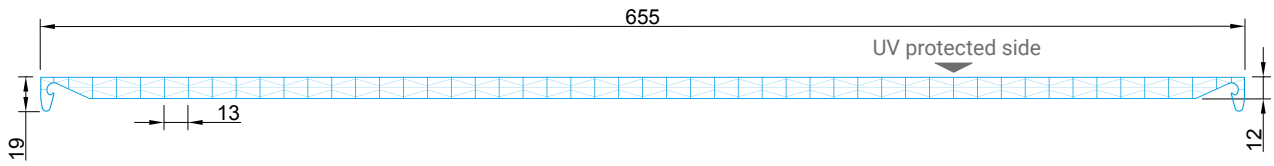




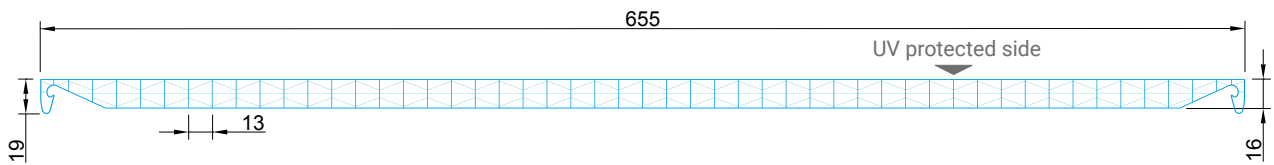


SYSTEM

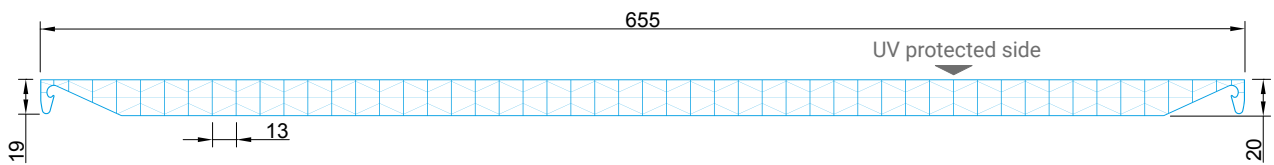
SELF SUPPORTING SYSTEM WITH COEXTRUDED UV PROTECTION, FOR ROOFINGS AND VERTICAL GLAZINGS



System 655-12



System 655-16



System 655-20

SYSTEM CHARACTERISTICS

Thickness	12 mm	16 mm	20 mm
Structure	5 walls X		
Panel width	655 (± 5 mm)		
Panel length	On request		
Estimated thermal transmittance	2,4 W/m ² K	2,2 W/m ² K	1,9 W/m ² K
Service temperature	- 40 °C / + 120 °C		
UV protection	Coextruded on the external side		
Thermal expansion	6,5 x 10 ⁻⁵ mm/m °C		
Light transmission*	Clear (0010)	66% (±5)	60% (±5)
	Opal (0035)	40% (±5)	41% (±5)
Warranty	Limited 10-yr's warranty against breakage due to hailstones, yellowing and loss of light transmission		

* value according to internal test method

FLAT VERSION

APPLICATION AND STRENGTHS

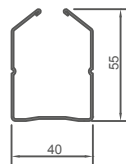
SYSTEM is an extremely adaptable system that, thanks to its modularity and strength, fits in various applications such as vertical glazings, skylights, small and large flat roofs.

The advanced extrusion technology allows to SYSTEM panels to guarantee perfect waterproofness and high resistance to wind and snow loads. Provides excellent light transmission and the coextruded UV protection keeps panel's physical and mechanical characteristics unchanged over time. It is resistant to accidental shocks and adverse weather conditions (temperature leaps, hail, ...). Fast and easy to install, as most Poly World Systems products, SYSTEM is covered by a ten-years limited warranty. A complete range of profiles and accessories allows the construction of solutions characterized by an excellent aesthetic performance.

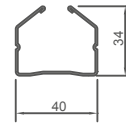
SPECIFICATIONS

Construction of vertical glazing, flat skylights, sloped roofings with polycarbonate multiwall panel type SYSTEM, thickness 12 mm / 16 mm / 20 mm, 5X-walls structure, coextruded UV protection on the external layer, closing of heads with aluminium adhesive tape (or thermosealing on request); 655 mm width, length on request; estimated thermal transmittance $U_g = 2,4 \text{ W/m}^2 \text{ K}$ (for 12 mm thick.) / $U_g = 2,2 \text{ W/m}^2 \text{ K}$ (for 16 mm thick.) / $U_g = 1,9 \text{ W/m}^2 \text{ K}$ (for 20 mm thick.); ten-years limited warranty. Accessories: square plastic coated steel joining profiles (thickness 1 mm); anodized aluminium perimeter profiles; PE spacers; EPDM gaskets.

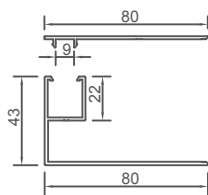
ACCESSORIES



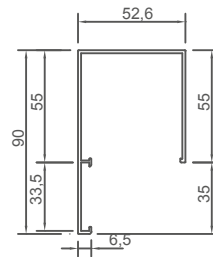
SQUARE PLASTIC COATED STEEL JOINING "BIG" PROFILE



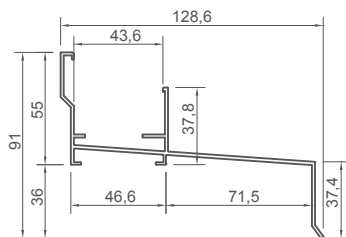
SQUARE PLASTIC COATED STEEL JOINING "SMALL" PROFILE



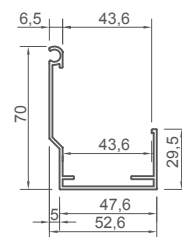
ALUMINIUM SIDE PROFILE



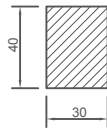
UPPER ALUMINIUM PROFILE



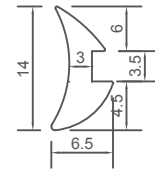
LOWER ALUMINIUM PROFILE WITH SILL



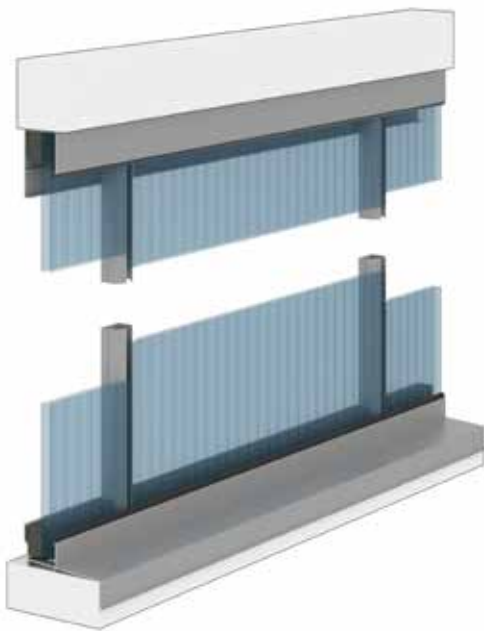
LOWER ALUMINIUM PROFILE



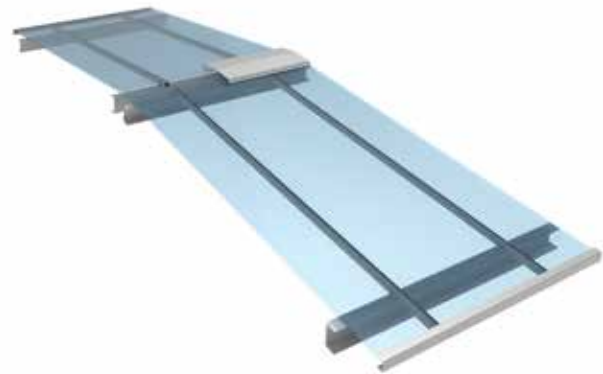
PE SPACER



EPDM GASKET



FACADE APPLICATION



ROOF APPLICATION

CURVED VERSION

APPLICATION AND STRENGTHS

SYSTEM is an extremely versatile system suitable for application on different types of curved roofings even with big dimensions.

The advanced extrusion technology allows to SYSTEM panels to guarantee perfect waterproofness and high resistance to wind and snow loads.

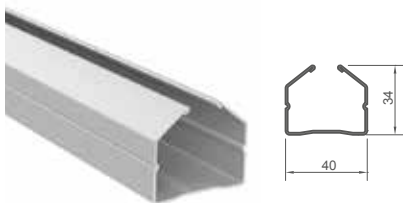
The panel provides excellent light transmission while the coextruded UV protection on the external layer keeps the physical and mechanical characteristics of the panels unchanged over time.

It is resistant to accidental shocks and adverse weather conditions (temperature variations, hail, ...). Fast and easy to install, as most Poly World Systems products, SYSTEM is covered by a ten-years limited warranty. A complete range of profiles and accessories allows the realization of solutions characterized by an excellent aesthetic performance.

SPECIFICATIONS

Construction of curved roofings and skylights with polycarbonate multiwall panel type SYSTEM, thickness 12 mm / 16 mm / 20 mm, 5X-walls structure, coextruded UV protection on the external layer, closing of heads with aluminium adhesive tape (or thermosealing on request); 655 mm width, length on request; estimated thermal transmittance $U_g = 2,4 \text{ W/m}^2 \text{ K}$ (for 12 mm thick.) / $U_g = 2,2 \text{ W/m}^2 \text{ K}$ (for 16 mm thick.) / $U_g = 1,9 \text{ W/m}^2 \text{ K}$ (for 20 mm thick.); ten-years limited warranty. Minimum bending radius: 2000 mm for 12 mm thick., 3500 mm for 16 mm thick., 5000 mm for 20 mm thick. Accessories: round plastic coated steel joining profiles (thickness 1 mm); square plastic coated steel joining profile (thickness 1 mm); anodized aluminium sill profiles; aluminium spacers; final PC profile.

ACCESSORIES



SQUARE PLASTIC COATED STEEL JOINING "SMALL" PROFILE



ROUND PLASTIC COATED STEEL JOINING PROFILE (Ø 34 mm)



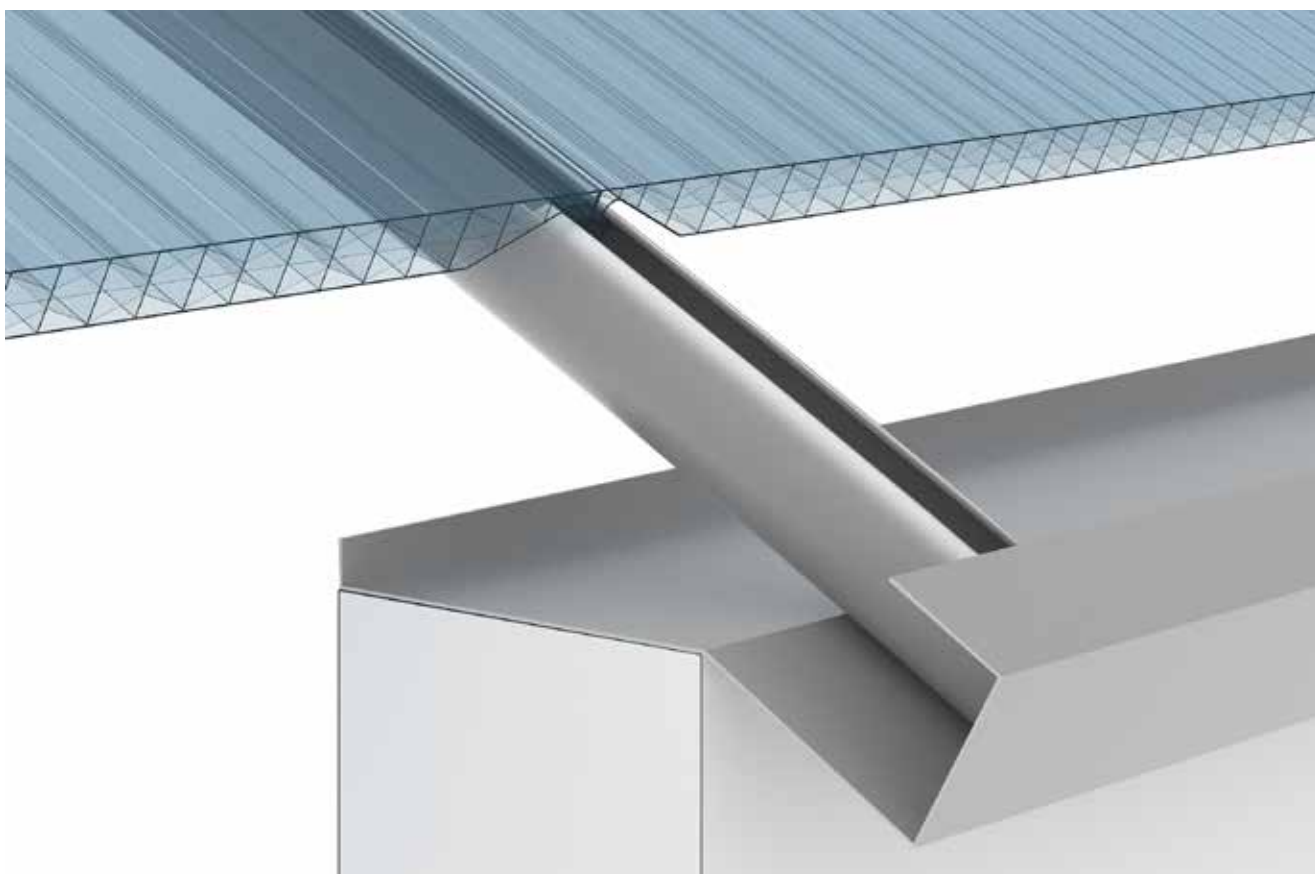
ROUND PLASTIC COATED STEEL JOINING PROFILE (Ø 55 mm)



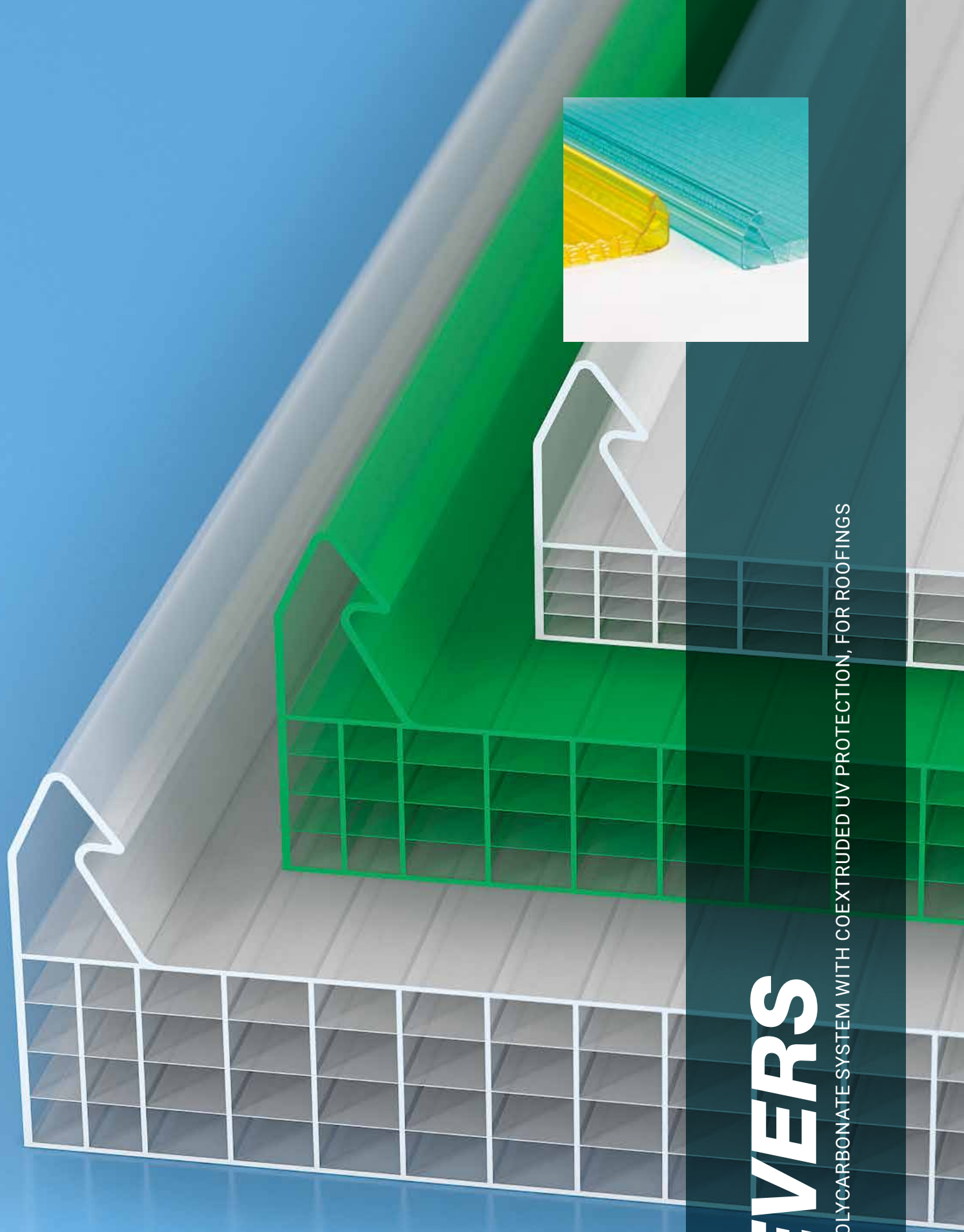
RAW ALUMINIUM SPACERS



FINAL PC PROFILE (for 12 mm - 16 mm - 20 mm diameter)

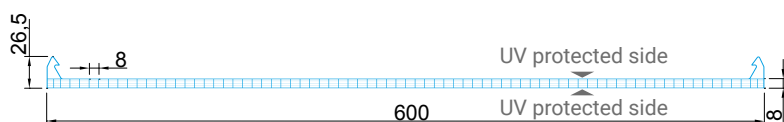


CURVED APPLICATION DETAIL

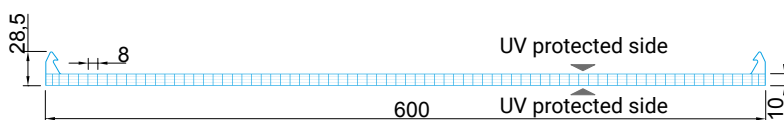


REVERS

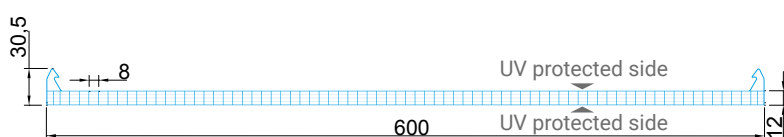
MODULAR POLYCARBONATE SYSTEM WITH COEXTRUDED UV PROTECTION, FOR ROOFINGS



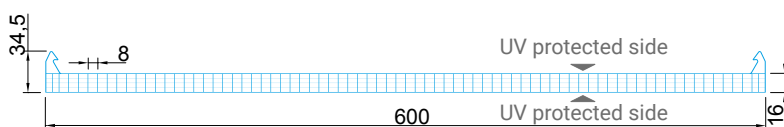
Revers 600-8



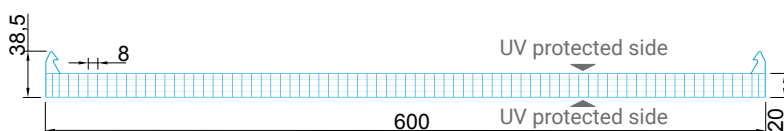
Revers 600-10



Revers 600-12



Revers 600-16



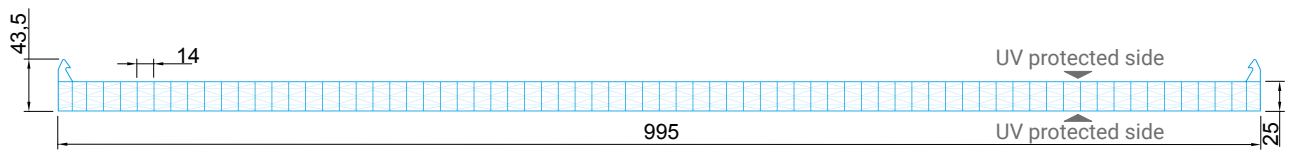
Revers 600-20

REVERS CHARACTERISTICS

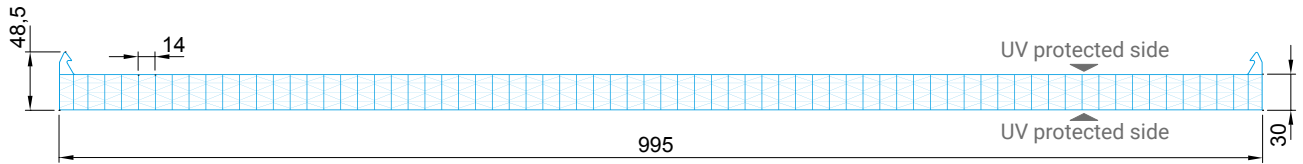
Thickness	8 mm	10 mm	12 mm	16 mm	20 mm	
Structure	5 walls					
Panel width	600 (± 5 mm)					
Panel length	On request					
Estimated thermal transmittance	2,8 W/m ² K	2,5 W/m ² K**	2,3 W/m ² K**	1,9 W/m ² K**	1,7 W/m ² K**	
Service temperature	- 40 °C / + 120 °C					
UV protection	Coextruded on both sides					
Thermal expansion	65 x 10 ⁻⁶ K ⁻¹ (=0,065 mm/m °C)					
Light transmission*	Clear (0010)	74% (±5)	72% (±5)	68% (±5)	62% (±5)	60% (±5)
	Opal (0035)	45% (±5)	43% (±5)	42% (±5)	42% (±5)	41% (±5)
Warranty	Limited 10-yrs warranty against breakage due to hailstones, yellowing and loss of light transmission					

* value according to internal test method

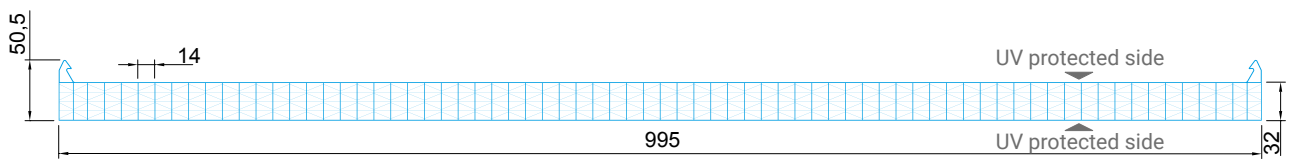
** value certified according to UNI EN ISO 10077-2:2012



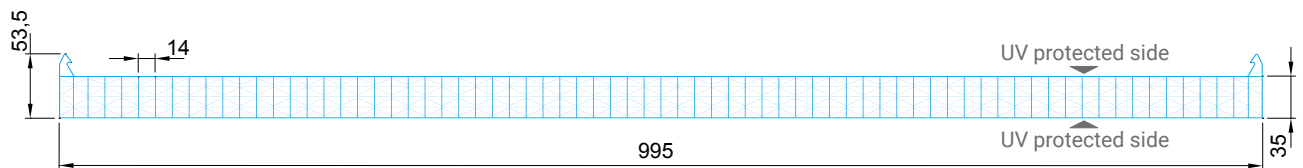
Revers 1000-25



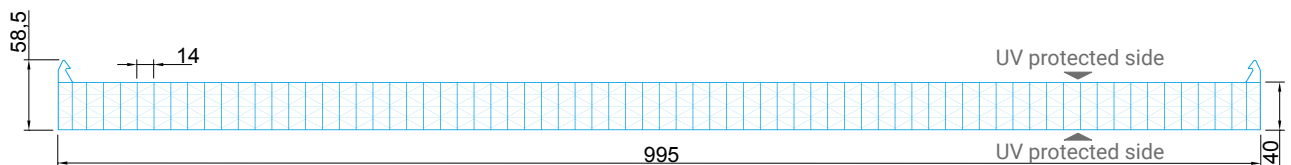
Revers 1000-30



Revers 1000-32



Revers 1000-35



Revers 1000-40

REVERS CHARACTERISTICS

Thickness	25 mm	30 mm	32 mm	35 mm	40 mm	
Structure	9 walls double X					
Panel width	995 (± 5 mm)					
Panel length	On request					
Estimated thermal transmittance	1,4 W/m ² K	1,3 W/m ² K	1,2 W/m ² K	1,3 W/m ² K	1,1 W/m ² K **	
Service temperature	- 40 °C / + 120 °C					
UV protection	Coextruded on the external side (on request on both sides)					
Thermal expansion	65 x 10 ⁻⁶ K ⁻¹ (=0,065 mm/m °C)					
Light transmission*	Clear (0010)	58% (±5)	56% (±5)	55% (±5)	53% (±5)	49% (±5)
	Opal (0035)	40% (±5)	39% (±5)	39% (±5)	39% (±5)	38% (±5)
Warranty	Limited 10-yrs warranty against breakage due to hailstones, yellowing and loss of light transmission					

* value according to internal test method

** value certified according to UNI EN ISO 10077-2:2012

APPLICATION AND STRENGTHS

REVERS is an innovative modular polycarbonate system that allows the realization of roofs and vertical walls thanks to joining profile connecting the panels to each other.

These joining profiles can be made of polycarbonate, to achieve maximum transparency of the solution without visible visual interruption, or aluminum, to ensure greater load resistance.

The interlocking joining system between the panel and the profile, without any fixing through the polycarbonate, allows also:

- to reduce the typical noise of polycarbonate systems when elements expand / shrink due to temperature variations
- install solutions with considerable lengths of panels without risk of breakage at the fixing points

The ends of the panels are sealed with aluminium adhesive tape or thermo sealed (max 16 mm thickness).

The different joining profiles required for the installation that panels are respectively:

- with teeth upwards with polycarbonate joining profile installed outside
- with teeth downwards with aluminium joining profile installed inside

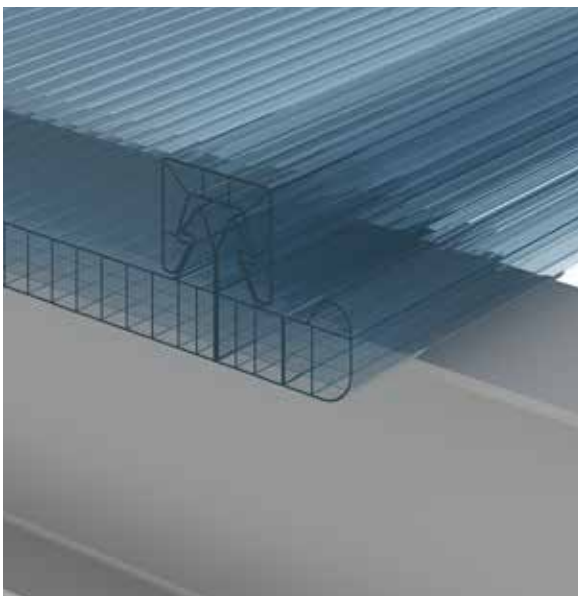
A complete range of accessories makes it possible to create aesthetically pleasing solutions.

All panels of REVERS 600 range are produced with standard two UV protected sides while panels of REVERS 1000 range are produced with standard one UV protected side (on request also this one can have two UV protected sides).

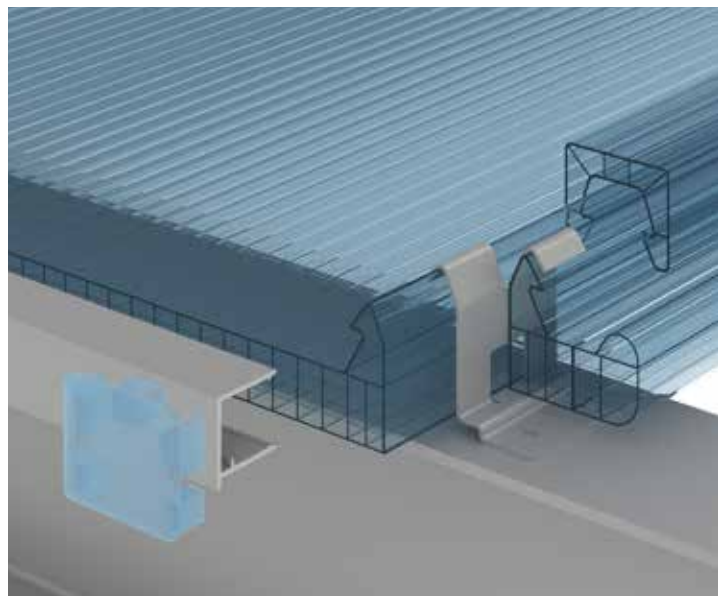
SPECIFICATIONS

Construction of sloped roofings and/or vertical glazings with polycarbonate multiwall panel type REVERS 600, thickness 8 mm / 10 mm / 12 mm / 16 mm / 20 mm, 5-walls structure, coextruded UV protection on both sides, closing of heads with aluminium adhesive tape (or thermosealing on request, max 16 mm thickness); 600 mm width, length on request; estimated thermal transmittance $U_g = 2,8 \text{ W/m}^2 \text{ K}$ (for 8 mm thick) / $U_g = 2,5 \text{ W/m}^2 \text{ K}$ (for 10 mm thick) / $U_g = 2,3 \text{ W/m}^2 \text{ K}$ (for 12 mm thick) / $U_g = 1,9 \text{ W/m}^2 \text{ K}$ (for 16 mm thick) / $U_g = 1,7 \text{ W/m}^2 \text{ K}$ (for 20 mm thick); ten-years limited warranty. Accessories: anodized aluminium joining profile; UV protected polycarbonate joining profile; steel fixing hooks; closing aluminium profiles; cap for PC joining profile; final polycarbonate profile.

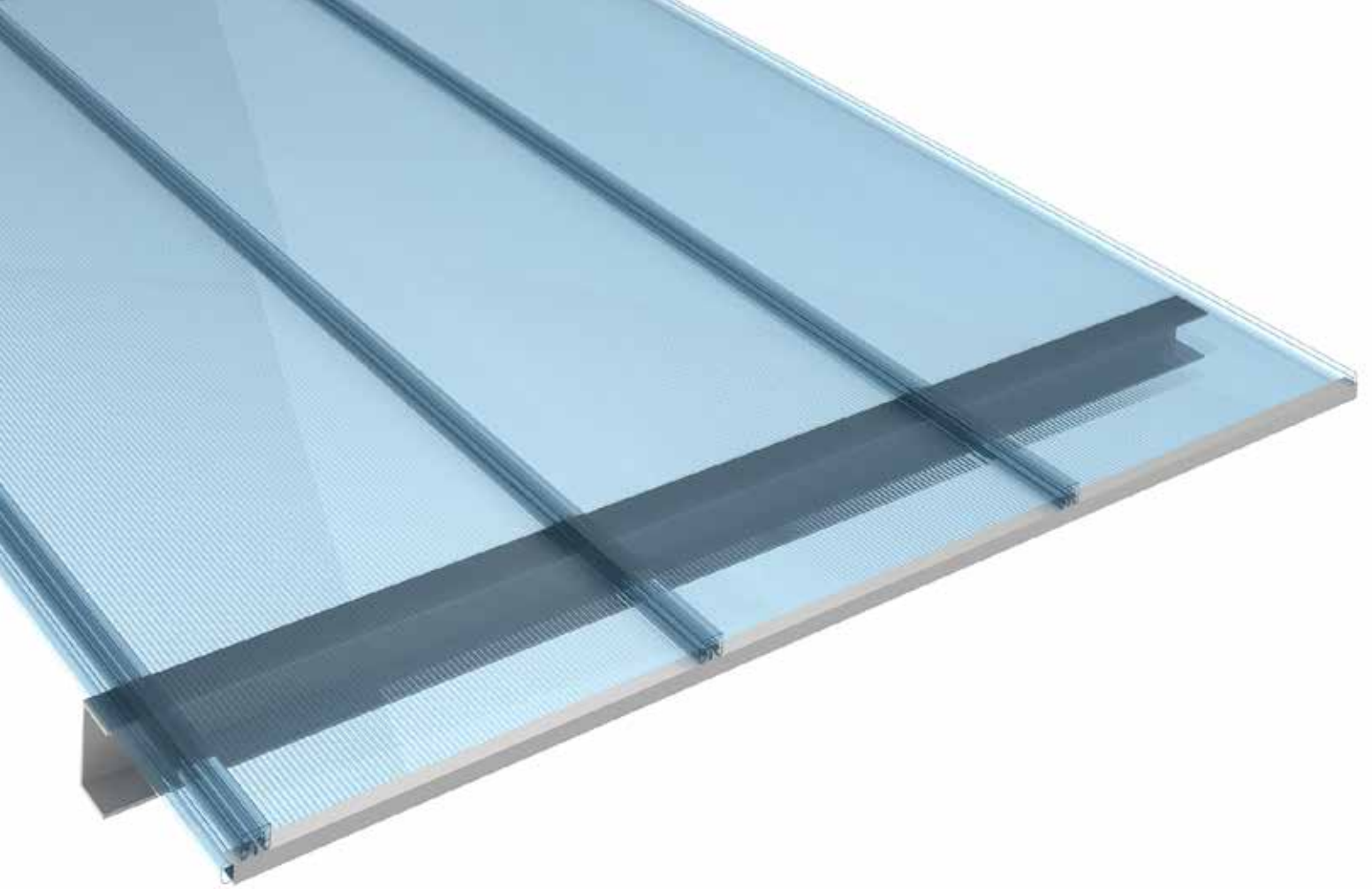
Construction of sloped roofings and/or vertical glazings with polycarbonate multiwall panel type REVERS 1000, thickness 25 mm / 32 mm / 40 mm, double X structure, coextruded UV protection on the external side (on request on both sides), closing of heads with aluminium adhesive tape; 995 mm width, length on request; estimated thermal transmittance $U_g = 1,4 \text{ W/m}^2 \text{ K}$ (for 25 mm thick.) / $U_g = 1,3 \text{ W/m}^2 \text{ K}$ (for 30 mm thick.) / $U_g = 1,2 \text{ W/m}^2 \text{ K}$ (for 32 mm thick.) / $U_g = 1,3 \text{ W/m}^2 \text{ K}$ (for 35 mm thick.) / $U_g = 1,1 \text{ W/m}^2 \text{ K}$ (for 40 mm thick.); ten-years limited warranty. Accessories: anodized aluminium joining profile; UV protected polycarbonate joining profile; steel fixing hooks; closing aluminium profiles; cap for PC joining profile; final polycarbonate profile.



DETAIL

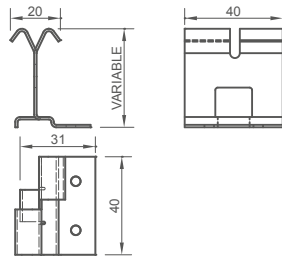


INSTALLATION OF ACCESSORIES

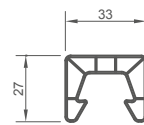


ROOF APPLICATION

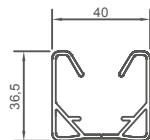
ACCESSORIES



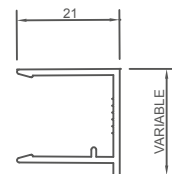
STEEL FIXING HOOKS



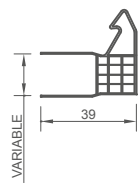
POLYCARBONATE JOINING PROFILE



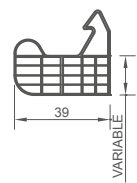
ANODIZED ALUMINIUM JOINING PROFILE



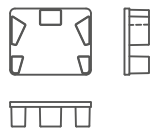
CLOSING ALUMINIUM PROFILE



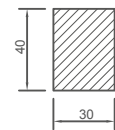
HALFWAY POLYCARBONATE PROFILE



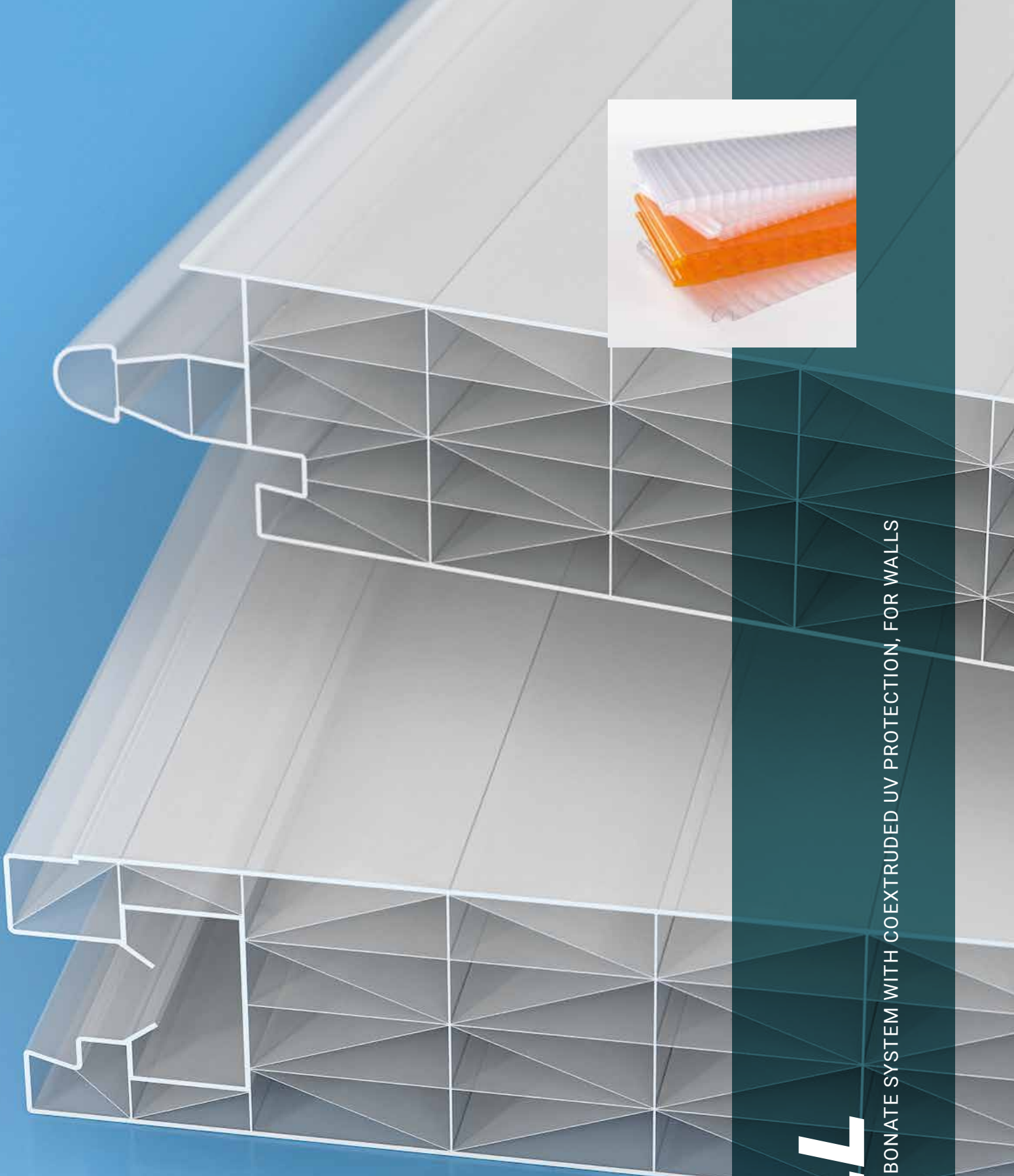
FINAL POLYCARBONATE PROFILE



CAP FOR POLYCARBONATE JOINING PROFILE

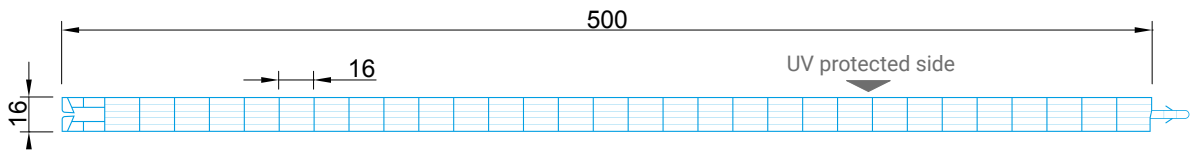


PE SPACER

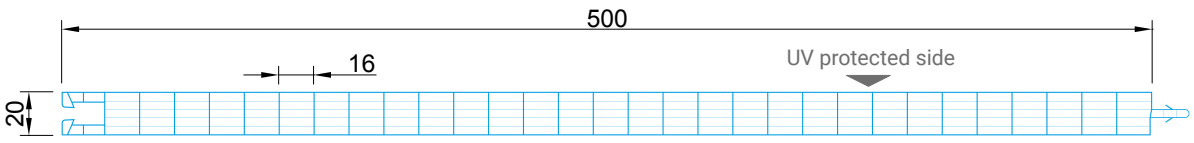


WALL

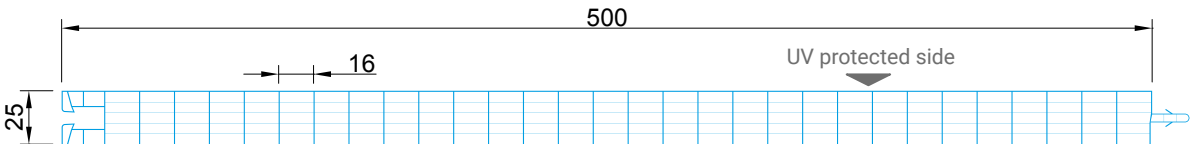
MODULAR POLYCARBONATE SYSTEM WITH COEXTRUDED UV PROTECTION, FOR WALLS



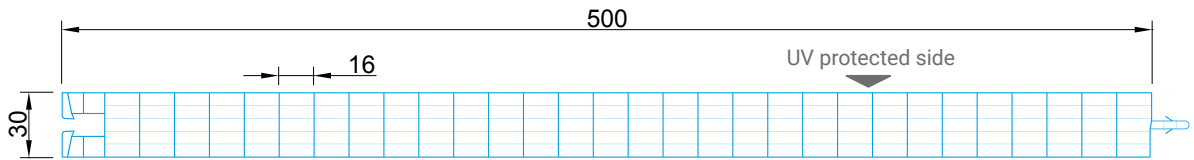
Wall 500-16



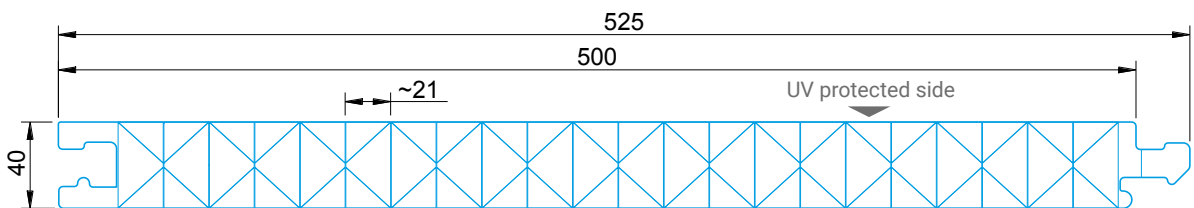
Wall 500-20



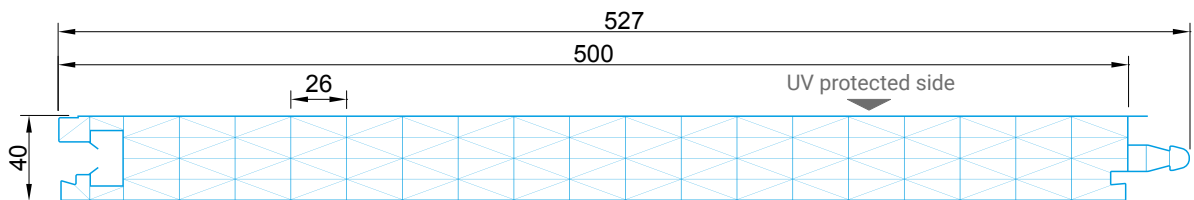
Wall 500-25



Wall 500-30



Wall 500-40 mono X



Wall 500-40 XX

WALL CHARACTERISTICS

Thickness	16 mm	20 mm	25 mm	30 mm	40 mm	40 mm
Structure	6 walls			4 walls X		9 double X
Cover width	500 (± 5 mm)					
Panel length	On request					
Certified thermal transmittance	1,8 W/m ² K	1,6 W/m ² K	1,4 W/m ² K	1,3 W/m ² K	1,6 W/m ² K	1,1 W/m ² K
Service temperature	- 40 °C / + 120 °C					
UV protection	Coextruded on the external side					
Thermal expansion	65 x 10 ⁻⁶ K ⁻¹ (=0,065 mm/m °C)					
Light transmission*	Clear (0010)	58% (±5)	56% (±5)	54% (±5)	52% (±5)	49% (±5)**
	Opal (0035)	44% (±5)	42% (±5)	40% (±5)	38% (±5)	38% (±5)**
Warranty	Limited 10-yrs warranty against breakage due to hailstones, yellowing and loss of light transmission					

* value according to internal test method

** values according to EN 410 and EN 14500 at CSTB France

APPLICATION AND STRENGTHS

WALL is a tongue&groove modular system, 500 mm width, available in 6-walls structure (thickness 16-20-25-30 mm) and double X structure (40 mm). The thermal transmittance values of the different versions allow to meet the actual requirements required by current regulations.

This is the ideal product for the construction of vertical walls in industrial buildings and thanks to the complete range of accessories (aluminum perimeter profiles, gaskets, fixing hooks, ...) it enables a simple, fast and technically effective installation.

WALL doesn't guarantee perfect waterproofness if installed as roof solution.

SPECIFICATIONS

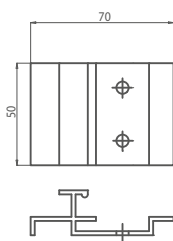
Construction of curtain walls, vertical glazings, sheds with tongue&groove polycarbonate multiwall panel type **WALL 500**, thickness **16 mm / 20 mm / 25 mm / 30 mm**, 6-walls structure, coextruded UV protection on the external side, closing of heads with aluminium adhesive tape (on request available also microperforated aluminium tape); 500 mm width, length on request; estimated thermal transmittance $U_g = 1,8 \text{ W/m}^2 \text{ K}$ (for 16 mm thick.) / $U_g = 1,6 \text{ W/m}^2 \text{ K}$ (for 20 mm thick.) / $U_g = 1,4 \text{ W/m}^2 \text{ K}$ (for 25 mm thick.) / $U_g = 1,3 \text{ W/m}^2 \text{ K}$ (for 30 mm thick.); ten-years limited warranty. Accessories: anodized aluminium perimeter profiles (raw aluminium on request); EPDM gaskets; aluminium or steel fixing hook (if required).

Construction of curtain walls, vertical glazings, sheds with tongue&groove polycarbonate multiwall panel type **WALL 500/40 MonoX**, thickness **40 mm**, 4 walls X structure, coextruded UV protection on the external side, closing of heads with aluminium adhesive tape (on request available also microperforated aluminium tape); 500 mm width, length on request; certified thermal transmittance $U_g = 1,6 \text{ W/m}^2 \text{ K}$; ten-years limited warranty. Accessories: anodized aluminium perimeter profiles (raw aluminium on request) or anodized aluminium thermal break profiles (raw aluminium on request); EPDM gaskets; aluminium or steel fixing hook (if required).

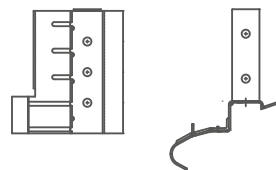
Construction of curtain walls, vertical glazings, sheds with tongue&groove polycarbonate multiwall panel type **WALL 500/40 XX**, thickness **40 mm**, double X structure, coextruded UV protection on the external side, closing of heads with aluminium adhesive tape (on request available also microperforated aluminium tape); 500 mm width, length on request; certified thermal transmittance $U_g = 1,1 \text{ W/m}^2 \text{ K}$; ten-years limited warranty. Accessories: anodized aluminium perimeter profiles (raw aluminium on request) or anodized aluminium thermal break profiles (raw aluminium on request); EPDM gaskets; aluminium or steel fixing hook (if required).



ACCESSORIES



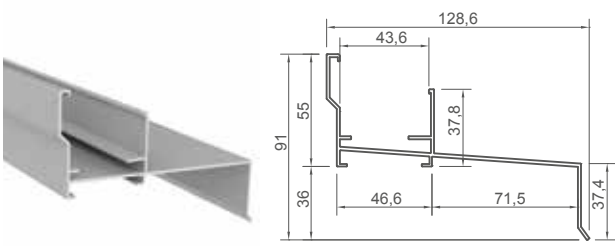
ALUMINIUM FIXING HOOK



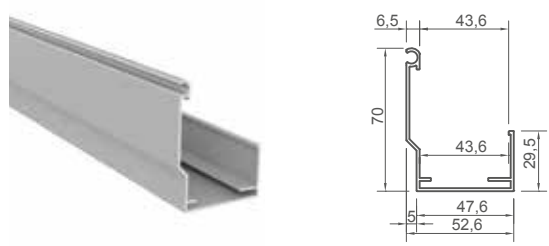
STEEL FIXING HOOK



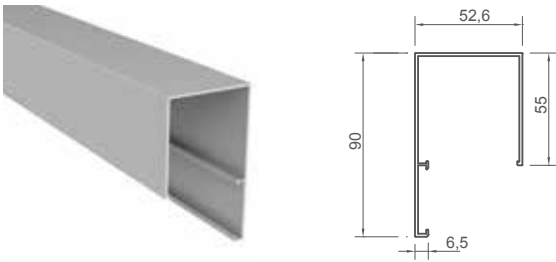
EPDM GASKET



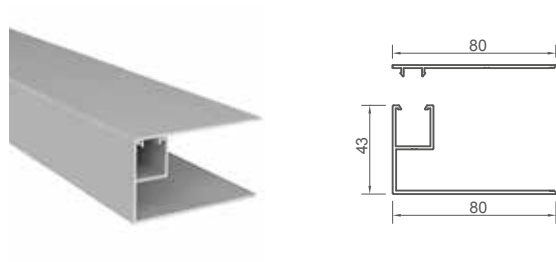
ALUMINIUM LOWER PROFILE WITH SILL



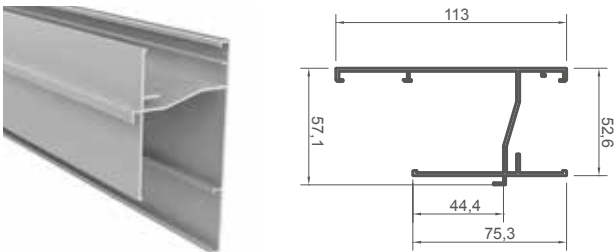
ALUMINIUM LOWER PROFILE



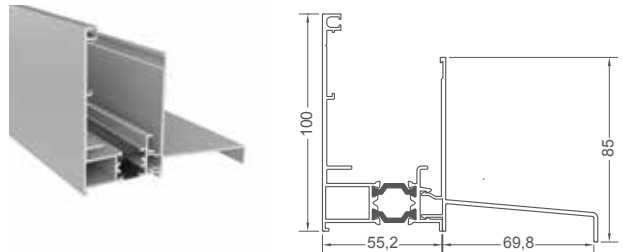
ALUMINIUM UPPER PROFILE



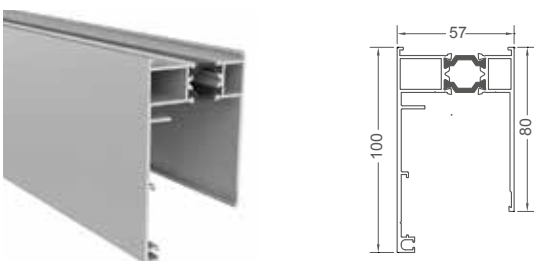
ALUMINIUM SIDE PROFILE



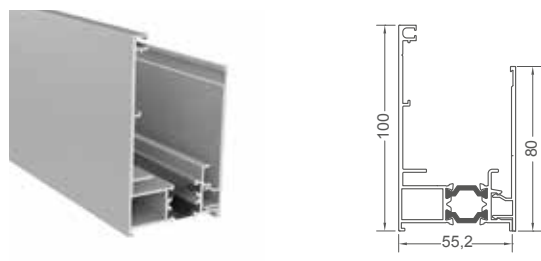
ALUMINIUM HALFWAY PROFILE



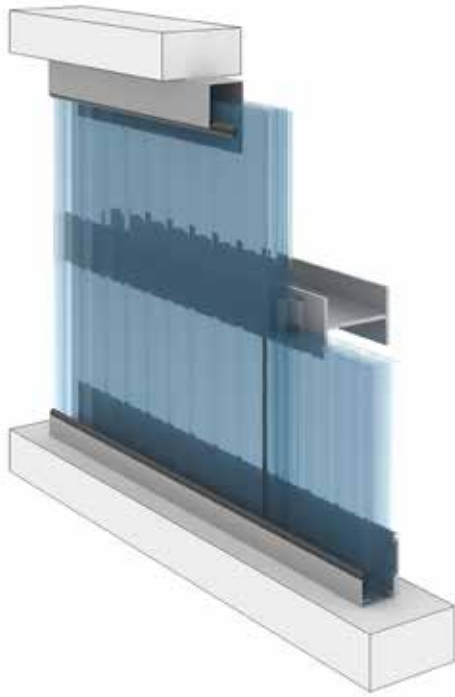
ALUMINIUM THERMAL BREAK LOWER PROFILE WITH SILL



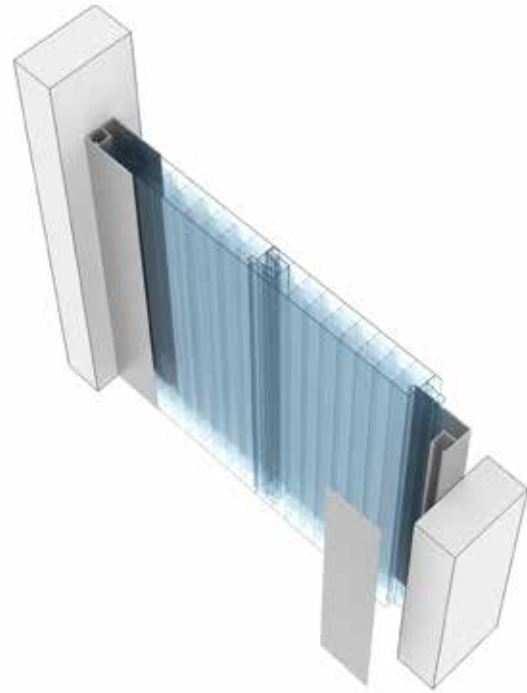
ALUMINIUM THERMAL BREAK UPPER PROFILE



LOWER/SIDE ALUMINIUM PROFILE WITH THERMAL CUT



APPLICATION WITH MIDDLE SUPPORT



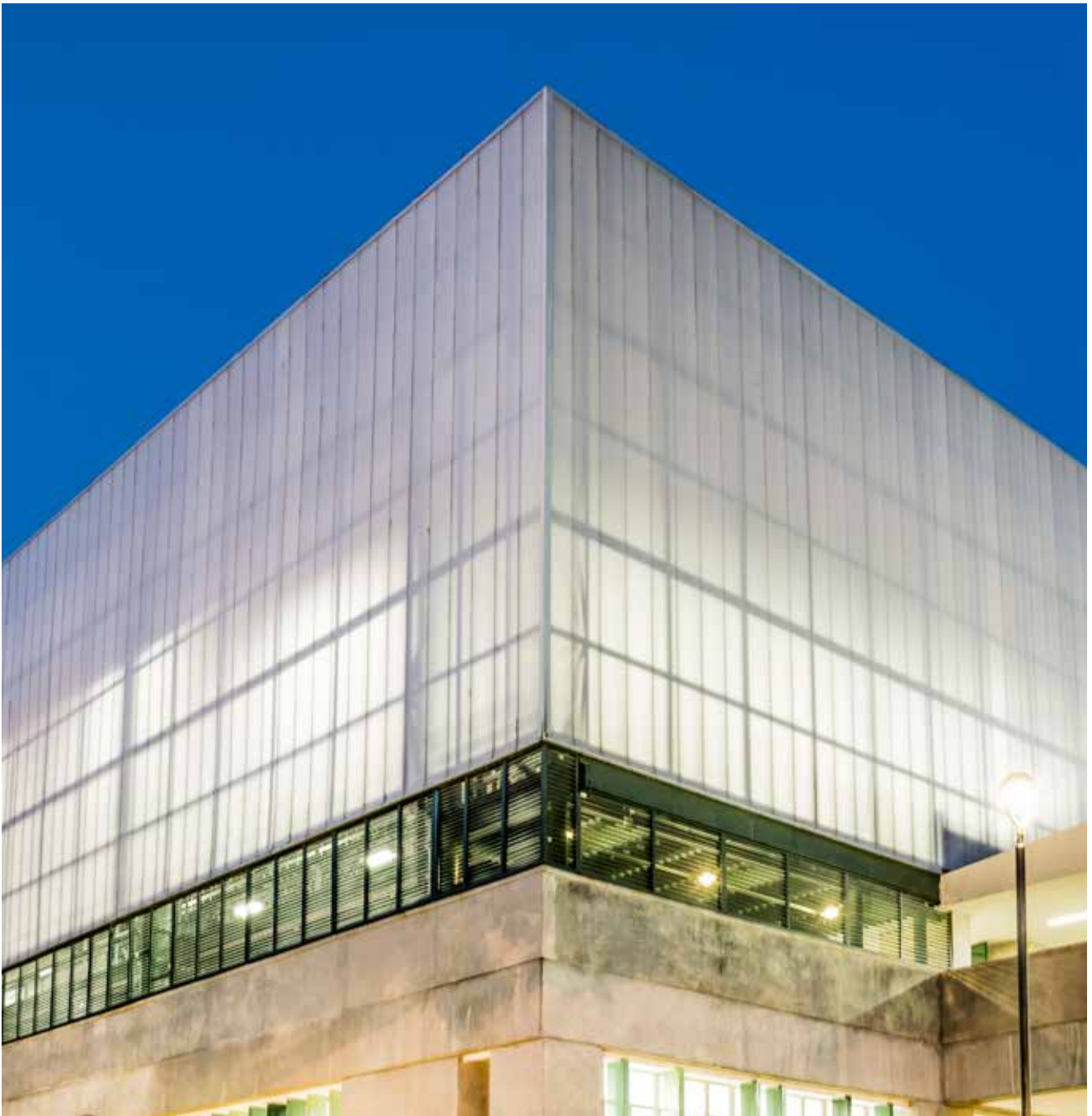
SIDE DETAIL



APPLICATION WITH LOWER PROFILE WITH SILL



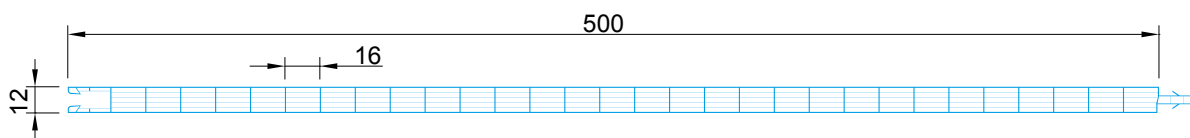
APPLICATION WITH SIMPLE LOWER PROFILE



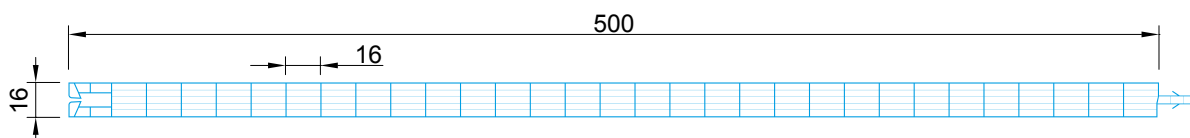


CEILING

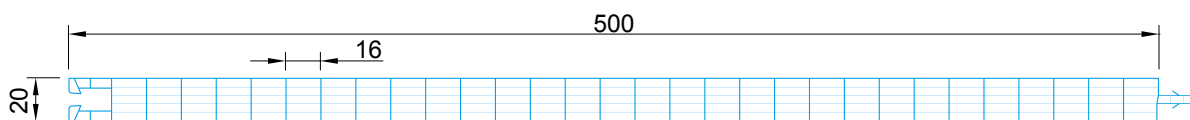
MODULAR POLYCARBONATE SYSTEM WITHOUT UV PROTECTION, FOR FALSE CEILINGS



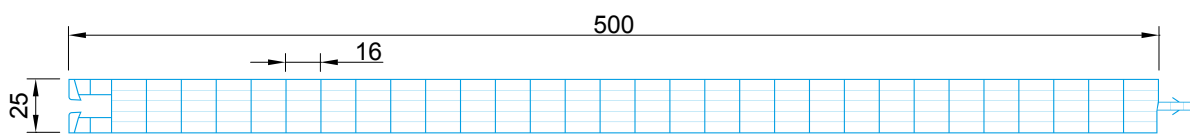
Ceiling 500-12



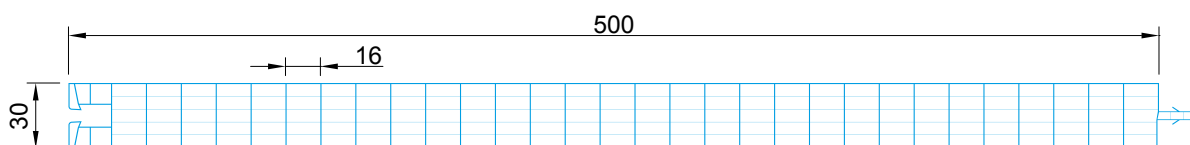
Ceiling 500-16



Ceiling 500-20



Ceiling 500-25



Ceiling 500-30

CEILING CHARACTERISTICS

Thickness	12 mm	16 mm	20 mm	25 mm	30 mm	
Structure	6 walls					
Cover width	500 (± 5 mm)					
Panel length	On request					
Estimated thermal transmittance	2,2 W/m ² K	1,8 W/m ² K**	1,6 W/m ² K**	1,4 W/m ² K**	1,3 W/m ² K**	
Service temperature	- 40 °C / + 120 °C					
UV protection	None (only inside application)					
Thermal expansion	65 x 10 ⁻⁶ K ⁻¹ (=0,065 mm/m °C)					
Light transmission*	Clear (0010)	58% (±5)	58% (±5)	56% (±5)	54% (±5)	52% (±5)
	Opal (0035)	44% (±5)	44% (±5)	42% (±5)	40% (±5)	38% (±5)
Warranty	None					

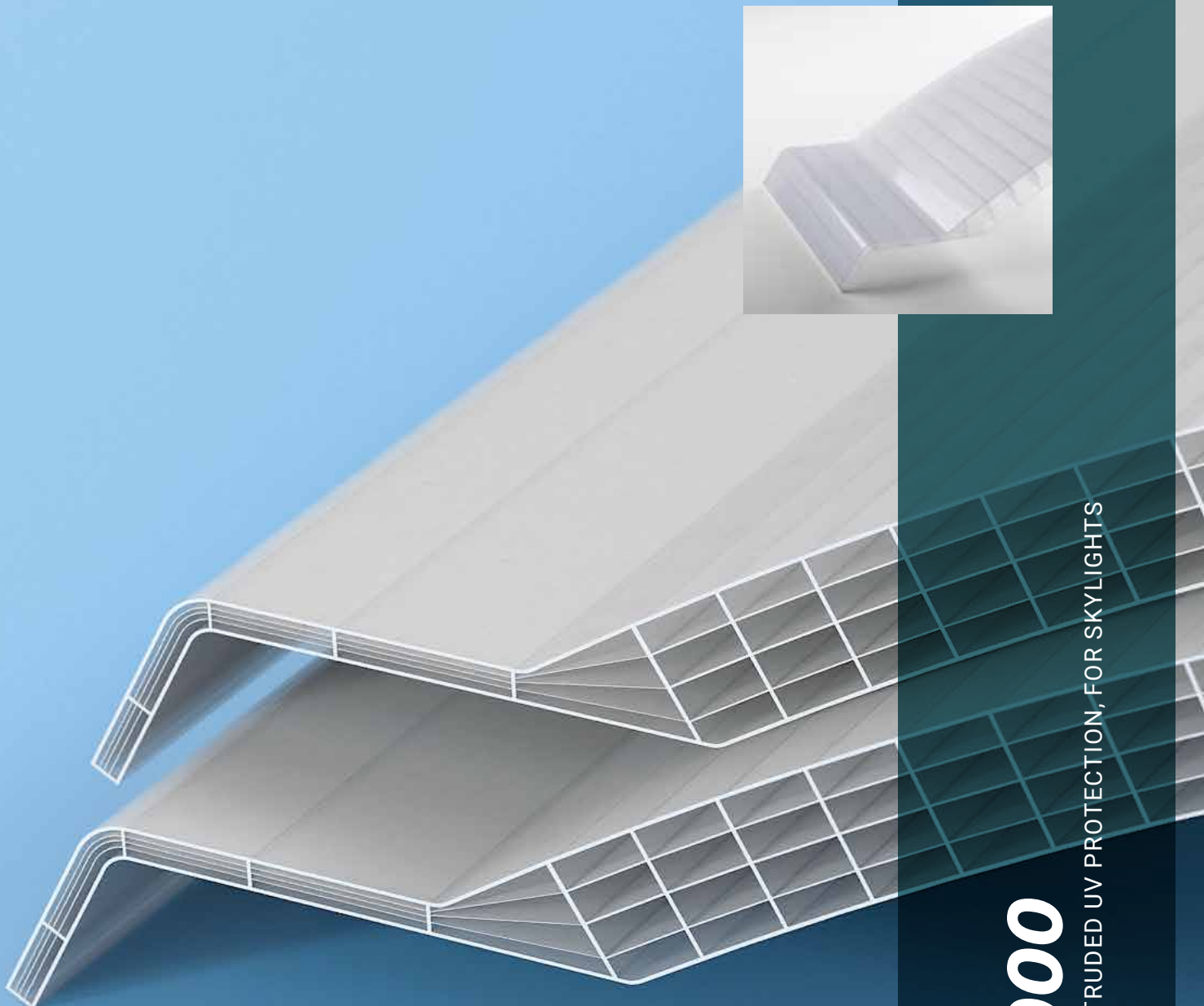
* value according to internal test method ** value certified according to UNI EN ISO 10077-2:2012

APPLICATION AND STRENGTHS

CEILING modular panels are mainly installed as false ceilings in industrial buildings. The various thicknesses available (from 12 mm to 30 mm) and the innovative 6-walls structure allow to comply with the thermal transmittance values required by current laws also coupled with GRECA, LIGHT or TOPLIGHT sheets. All CEILING panels are supplied without any UV protection because they are installed in solutions where the product isn't exposed to direct sunlight and snow / wind.

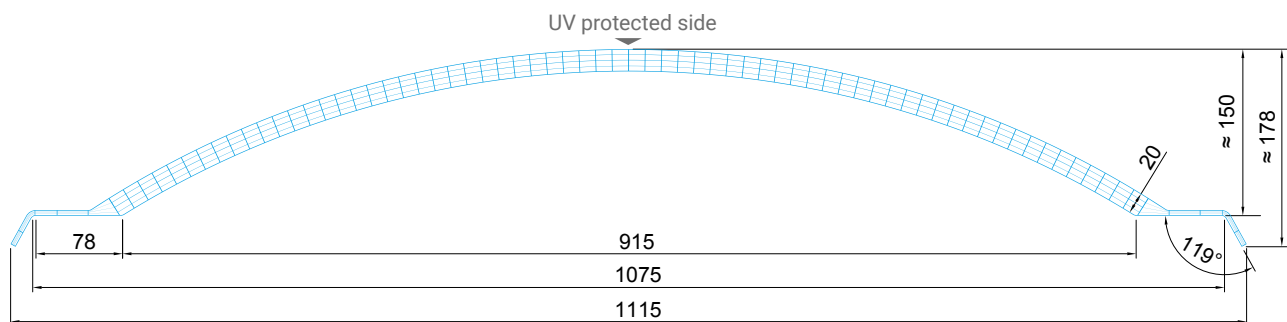
SPECIFICATIONS

Construction of false ceilings with tongue&groove polycarbonate multiwall panel type CEILING, thickness 12 mm / 16 mm / 20 mm / 25 mm / 30 mm, 6-walls structure, closing of heads with aluminium adhesive tape (on request available also microperforated aluminium tape); 500 mm width, length on request; estimated thermal transmittance Ug = 2,2 W/ m² K (for 12 mm thick.) / Ug = 1,8 W/ m² K (for 16 mm thick.) / Ug = 1,6 W/ m² K (for 20 mm thick.) / Ug = 1,4 W/ m² K (for 25 mm thick.) / Ug = 1,3 W/ m² K (for 30 mm thick.).



RADIUS 1000

SELF SUPPORTING CURVED PANEL WITH COEXTRUDED UV PROTECTION, FOR SKYLIGHTS



Radius 1000

RADIUS 1000 CHARACTERISTICS

Thickness	20 mm	
Structure	5 walls	
Panel width	1115 (± 5 mm)	
Panel length	On request	
Estimated thermal transmittance	1,6 W/m ² K	
Service temperature	- 40 °C / + 120 °C	
UV protection	Coextruded on the external side	
Thermal expansion	65 x 10 ⁻⁶ K ⁻¹ (=0,065 mm/m °C)	
Light transmission*	Clear (0010)	55% (±5)
	Opal (0035)	35% (±5)
Warranty	Limited 10-yrns warranty against breakage due to hailstones, yellowing and loss of light transmission	

* value according to internal test method



APPLICATION AND STRENGTHS

RADIUS is an extruded multiwall polycarbonate panel produced already curved, with a 5-walls structure and a uniform thickness of 20 mm throughout the arch. Its special shape, OBTAINED DURING THE EXTRUSION PROCESS, allows it to have a particularly strong structure. These features make RADIUS a unique system, ensuring:

- high load resistance
- good thermal insulation (uniform throughout the arch)
- no limits due to thermal expansion movements because there isn't any fixing screw passing through polycarbonate
- possibility of extruding the sheet in one element, ensuring perfect air/water-tightness
- a uniform surface throughout the length of the skylight, without the typical interruption of modular systems or aluminium profiles used with multiwall sheets

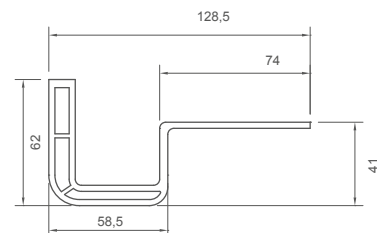
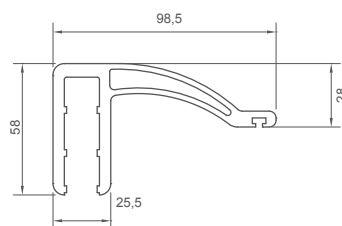
RADIUS is UV-protected thanks to the coextrusion applied to the outside surface that makes the product resistant to weather, accidental shocks, temperature fluctuations and hail. This innovative system allows a faster installation if compared with the classic solutions used today.

The fixing of the RADIUS is achieved through two metal profiles that allow the thermal expansion of the panel without causing breakage or infiltration. The bottom of the profile is screwed onto the concrete curb or on the metal structure of the sandwich panel so that the panel can be put in place. The upper part of the profile is then secured to the bottom without any drilling of the RADIUS panels. Aluminium joining profiles (required for particularly long skylights) and final heads complete the system.

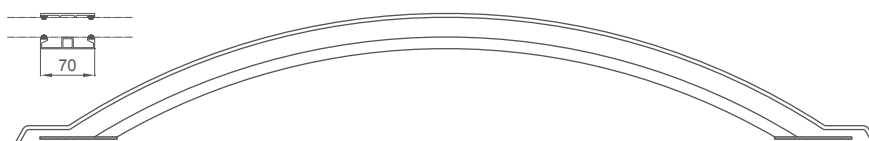
SPECIFICATIONS

Construction of flat skylights with polycarbonate multiwall panel type RADIUS 1000, thickness 20 mm, 5-walls structure, coextruded UV protection on the external side, closing of heads with aluminium adhesive tape (on request available also microperforated aluminium tape); 1115 mm width (chord), length on request; estimated thermal transmittance $U_g = 1,6 \text{ W/m}^2 \text{ K}$; ten-years limited warranty. Accessories: fixing elements provided with EPDM gaskets; closing of head with metal gables; special aluminium joining profiles between sheets (if required)

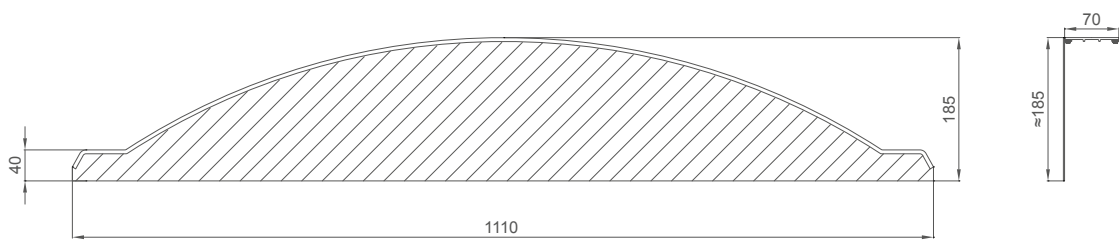
ACCESSORIES



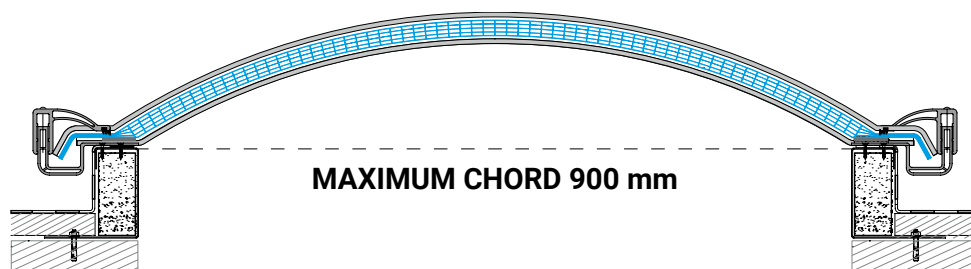
ALUMINIUM FIXING ELEMENT



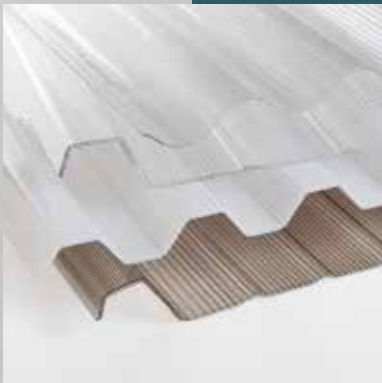
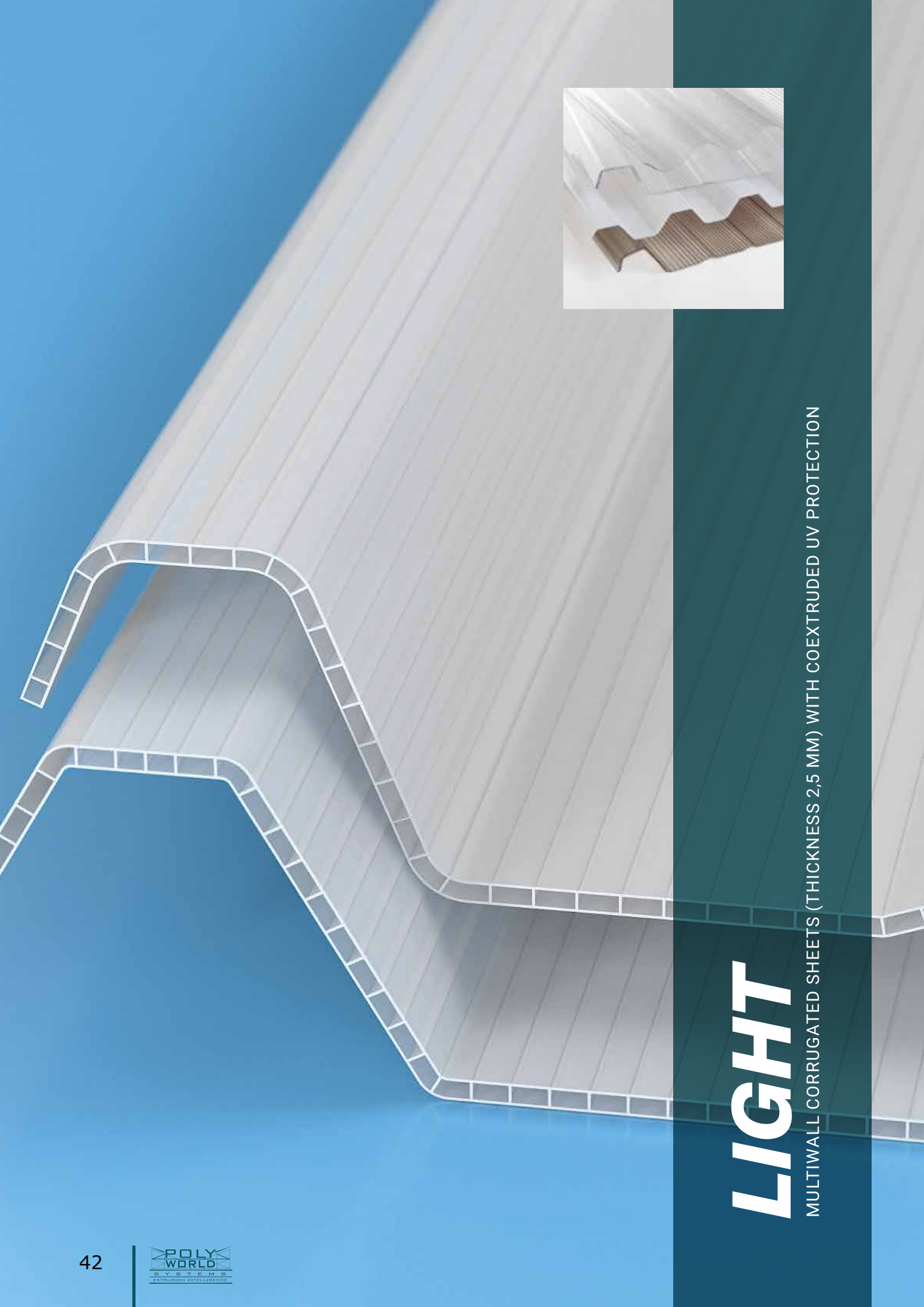
JOINING PROFILE



CLOSING GABLES



INSTALLATION ON SANDWICH PANEL OR CONCRETE KERB



LIGHT

MULTIWALL CORRUGATED SHEETS (THICKNESS 2,5 MM) WITH COEXTRUDED UV PROTECTION



LIGHT CHARACTERISTICS

Thickness	2,5 mm	
Structure	2 walls	
Panel length	On request (maximum recommended length 7 m)	
Estimated thermal transmittance	4,7 W/m ² K	
Service temperature	- 40 °C / + 120 °C	
UV protection	Coextruded on the external side	
Thermal expansion	65 x 10 ⁻⁶ K ⁻¹ (=0,065 mm/m °C)	
Light transmission*	Clear (0010)	84% (±5)
	Opal (0035)	76% (±5)
Warranty	Limited 10-yrs warranty against breakage due to hailstones, yellowing and loss of light transmission	

* value according to internal test method

APPLICATION AND STRENGTHS

LIGHT sheets are multiwall corrugated sheets 2,5 mm thickness.

This product is extremely adaptable because it can be used in the middle of the roof, in ridge to gutter applications and/or in side overlap with most metal corrugated sheets or sandwich panels currently available on the market.

The multiwall structure of these sheets offers many advantages in terms of thermal insulation, limited condensation formation (compared to the same solid corrugated polycarbonate shapes), robustness and load resistance.

LIGHT sheets can also be coupled with our CEILING panels used as false ceiling to increase the thermal insulation of the light spots on the industrial roofs.

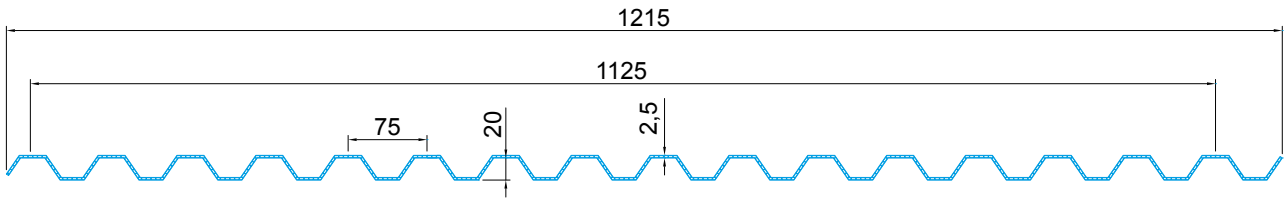
SPECIFICATIONS

Construction of skylights and/or spot lights with polycarbonate multiwall corrugated sheets type LIGHT, thickness 2,5 mm, 2-walls structure, coextruded UV protection on the external side, thermosealed heads; variable width according to different shapes, length on request; estimated thermal transmittance $U_g = 4,7 \text{ W/m}^2 \text{ K}$; ten-years limited warranty. The following accessories are available on request: PE spacer (upper and / or lower) only for some shapes, fixing screw (for metal supports only), aluminium caps.

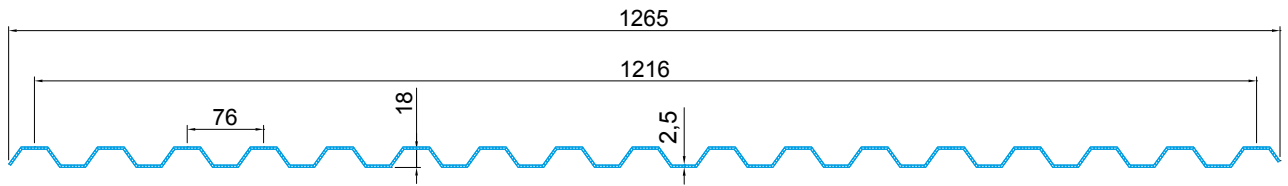
AVAILABLE SHAPES

Poly World Systems can provide a wide range of different profiles, off-the-shelf products, compatible with most common metal corrugated sheets and/or sandwich panels available on the market.

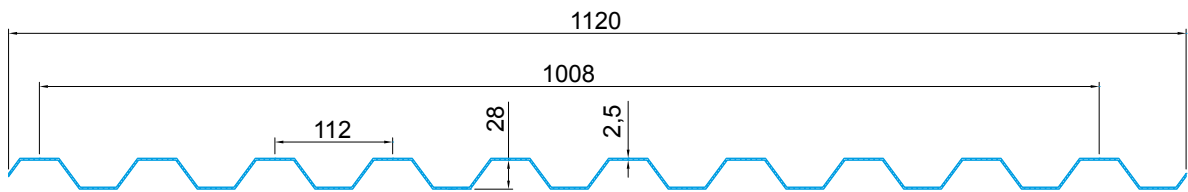
New profiles and custom-made products can be developed on Client's request.



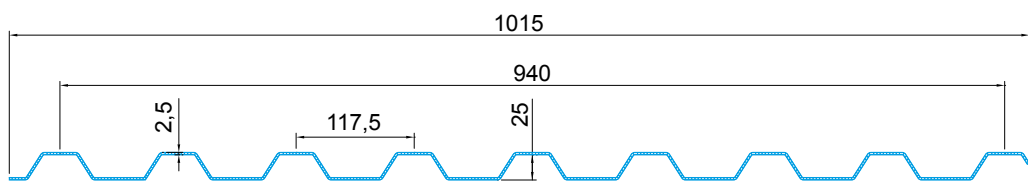
LIGHT T 75/20



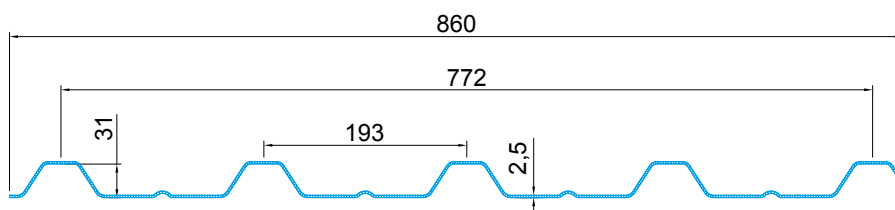
LIGHT T 76/18



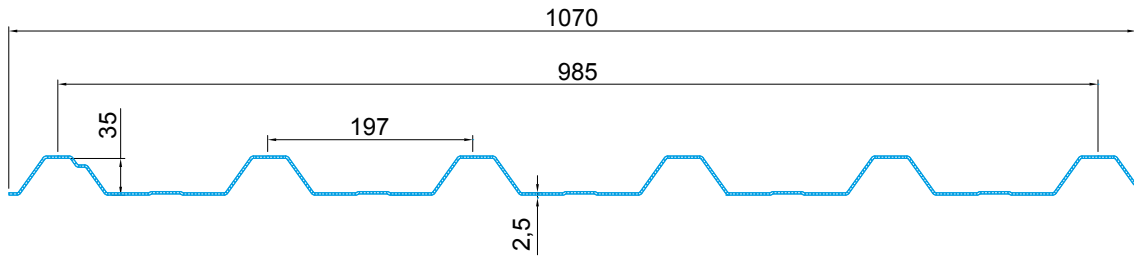
LIGHT T 112/28



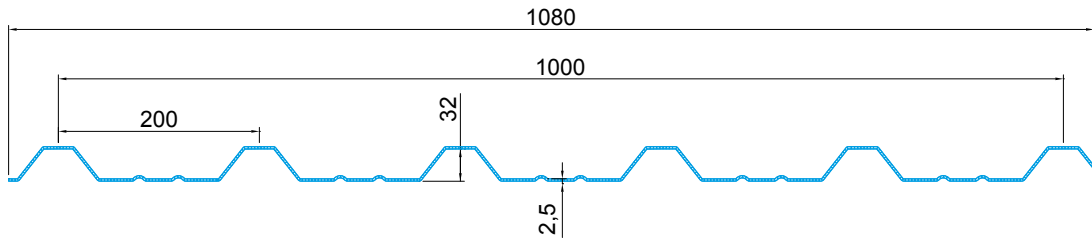
LIGHT T 117/25 compatible with "ISOLPACK SL940"



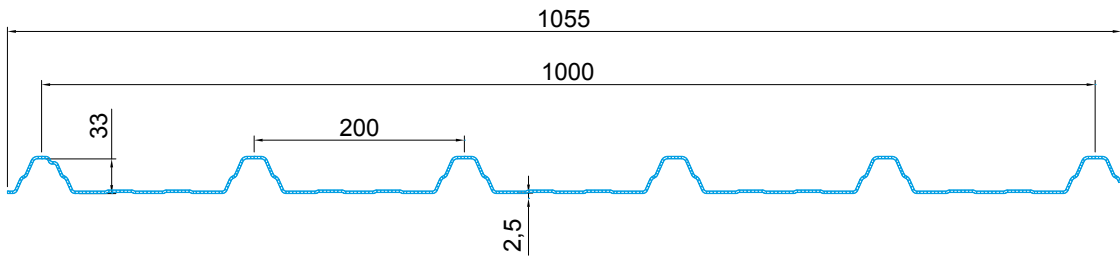
LIGHT T 193/32 compatible with "ONDULIT COVERIB 850"



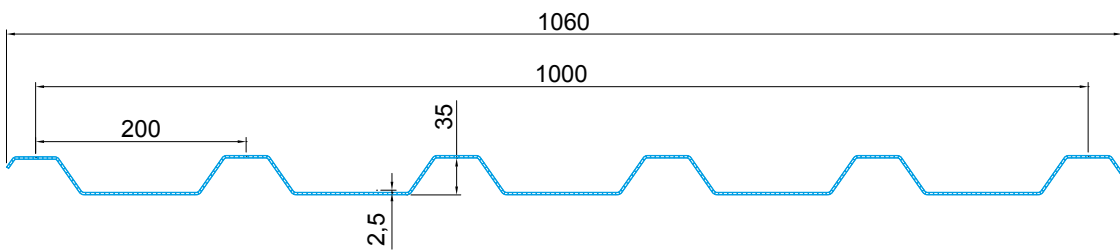
LIGHT T 197/35 compatible with "SILMA 6"



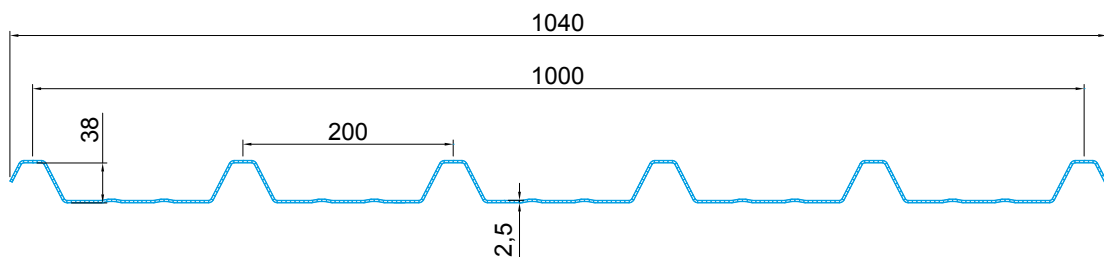
LIGHT T 200/32 compatible with "HIANSA MT32"



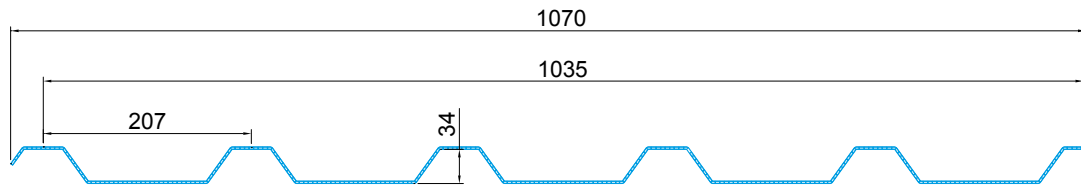
LIGHT T 200/35 compatible with "SANDRINI SAND35"



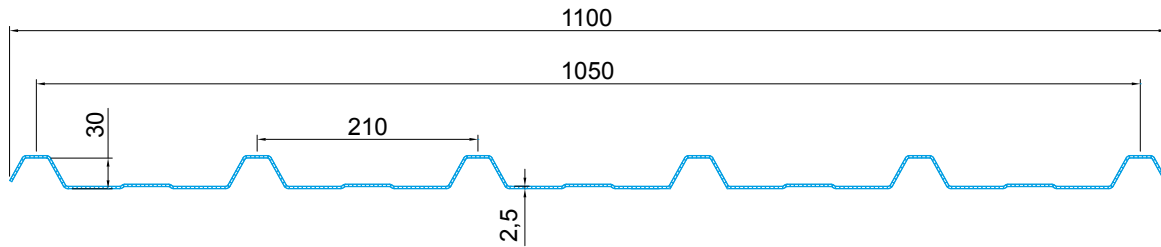
LIGHT T 200/35 compatible with "TR35"



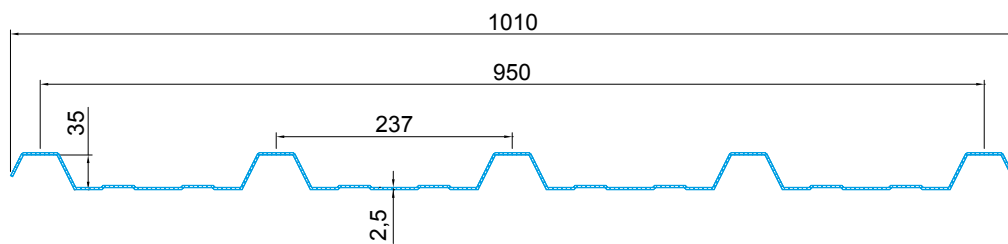
LIGHT T 200/38 compatible with "LATTONEDIL ISOCOPRE"



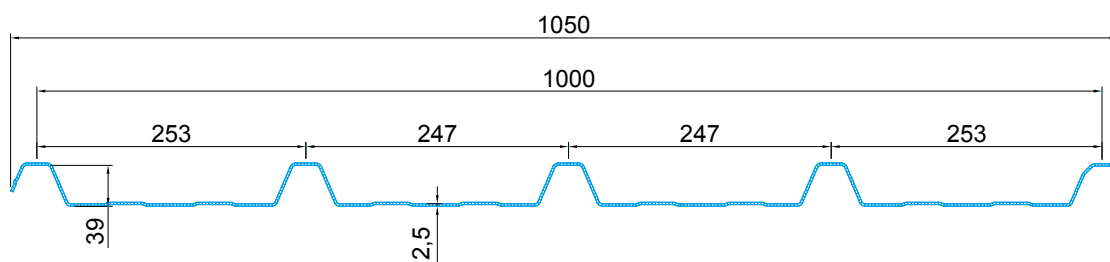
LIGHT T 207/35 compatible with "KLOCKNER 35/207"



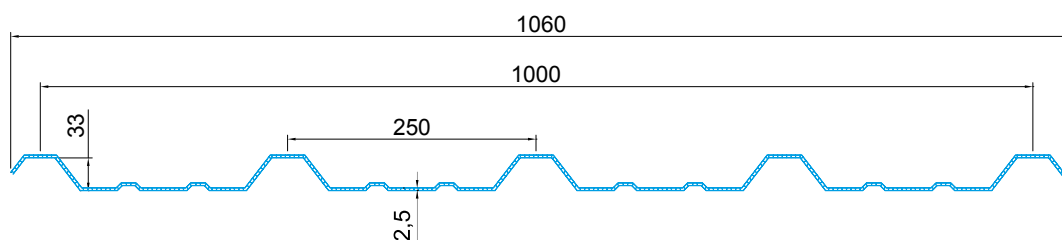
LIGHT T 210/30 compatible with "AISLUX 210/30"



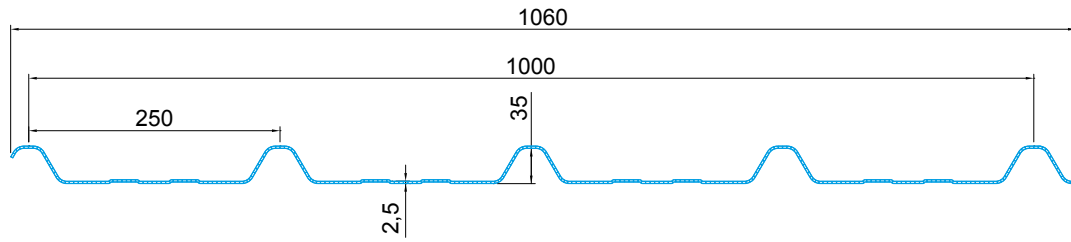
LIGHT T 237/35 compatible with "DANIELI W950"



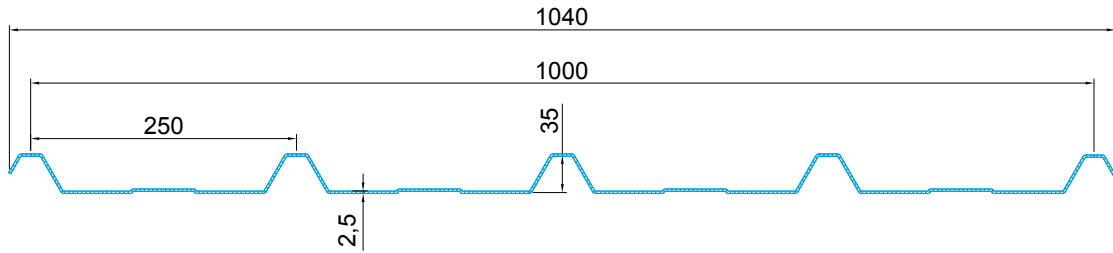
LIGHT T 247/39 compatible with "SILEX"



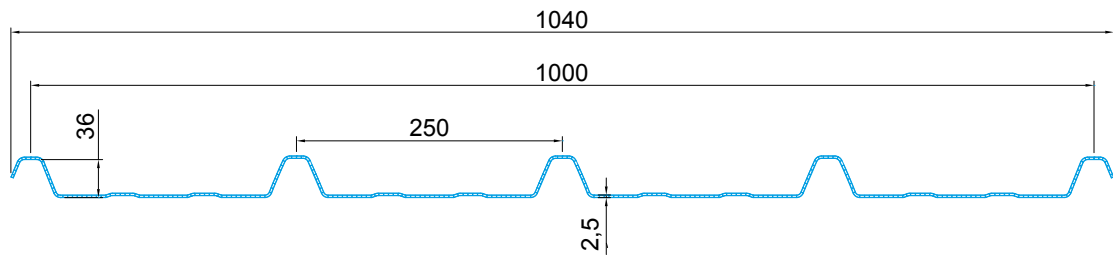
LIGHT T 250/33 compatible with "DANIELI SR 250R"



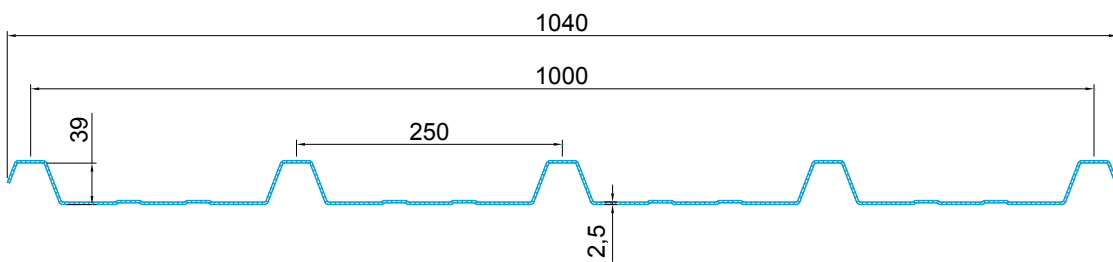
LIGHT T 250/35 compatible with "REX 33.250.1000"



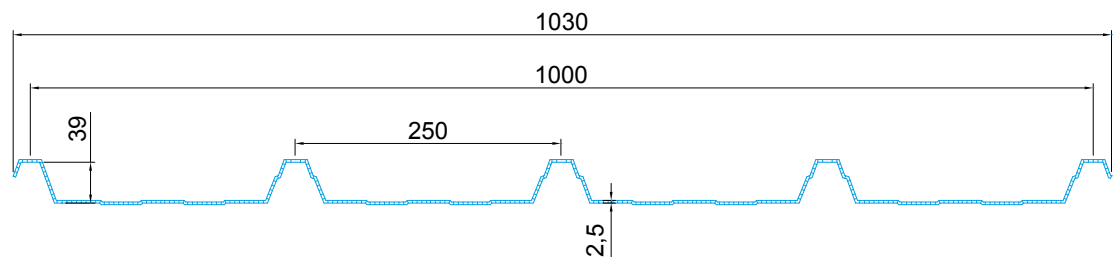
LIGHT T 250/35 compatible with "METECNO G5 TOPROOF"



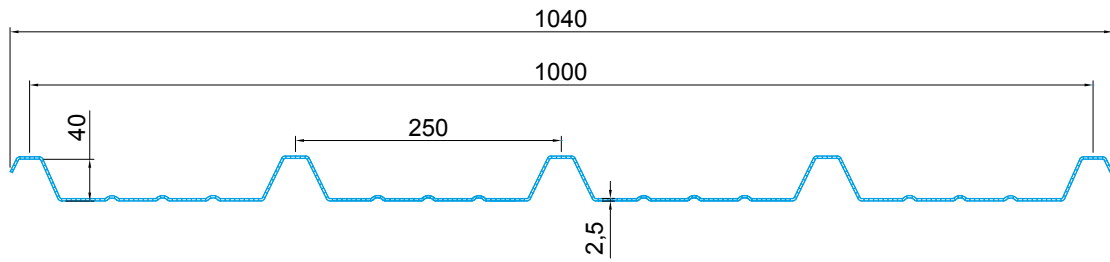
LIGHT T 250/37 compatible with "LATTONEDIL EURO CINQUE"



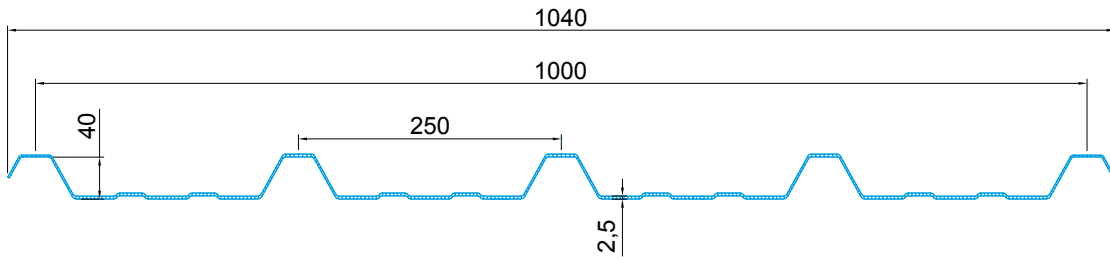
LIGHT T 250/39 compatible with "MARCEGAGLIA BROLLO"



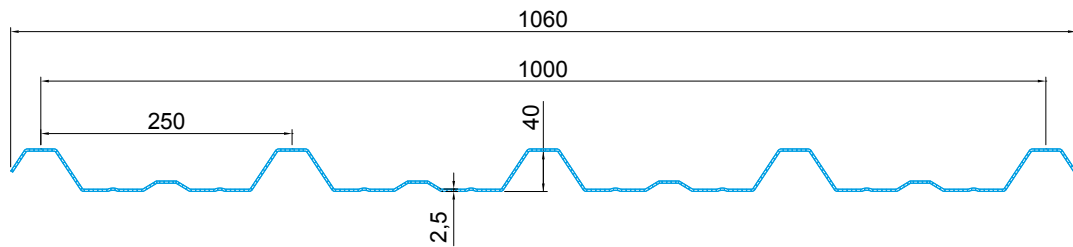
LIGHT T 250/39 compatible with "ITALPANNELLI PENTA"



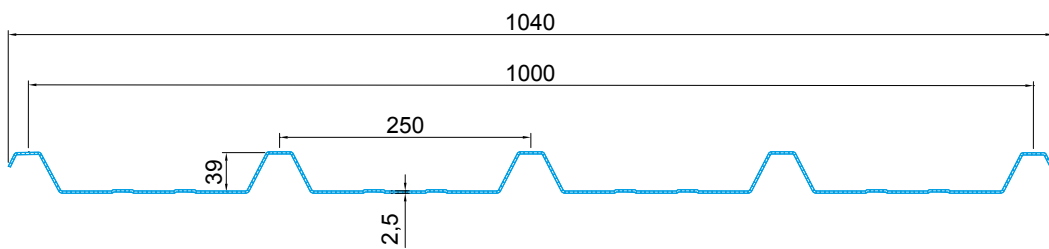
LIGHT T 250/40 compatible with "ISOLPACK DELTA 5A"



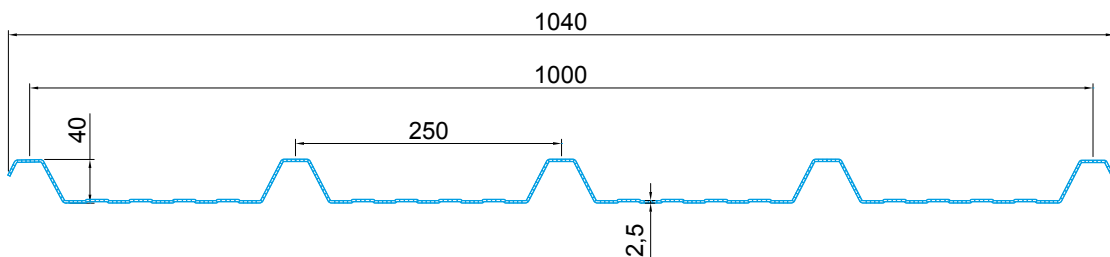
LIGHT T 250/40 compatible with "AISLUX 250/40"



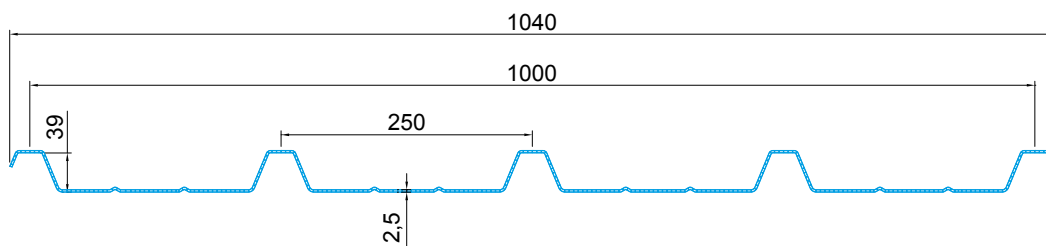
LIGHT T 250/40 compatible with "ISOLPACK RW1000"



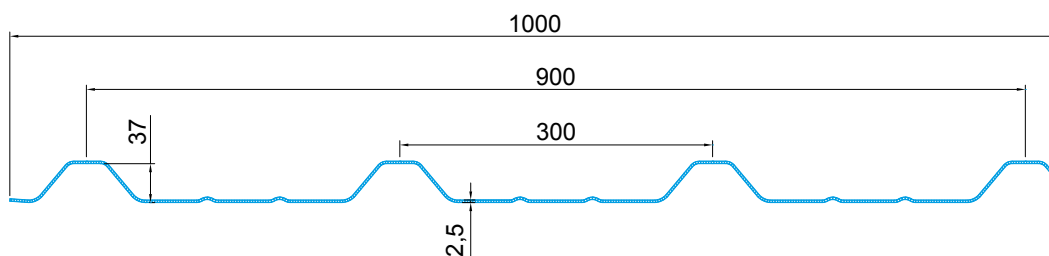
LIGHT T 250/40 compatible with "SANDRINI SAND40"



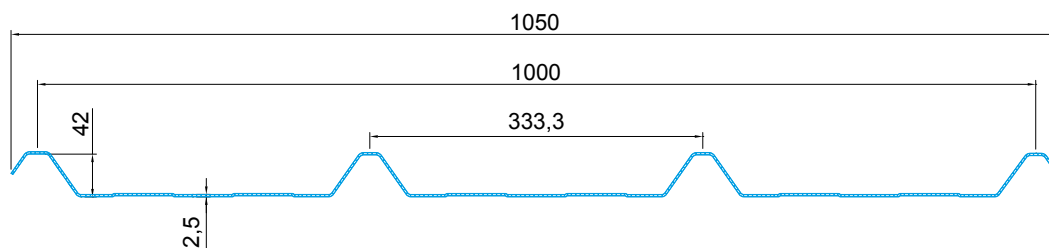
LIGHT T 250/40 compatible with "ALUBEL DACH"



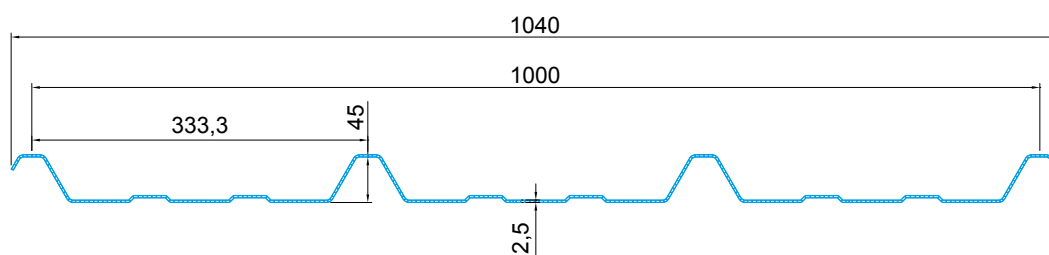
LIGHT T 250/40 compatible with "ISOPAN ISOCOP"



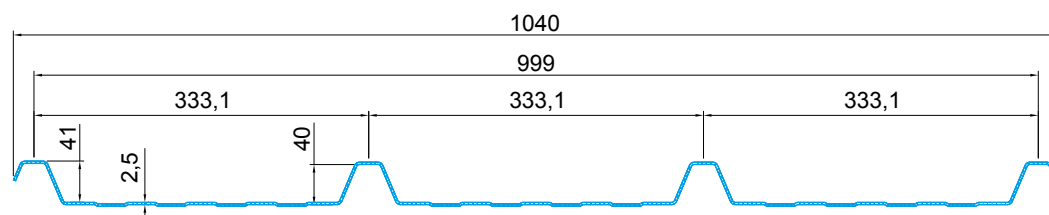
LIGHT T 300/37 compatible with "ONDULIT COVERIB 1000"



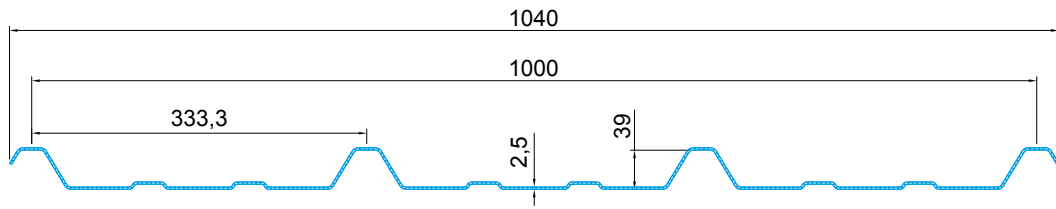
LIGHT T 333/42 compatible with "KINGSPAN KS1000"



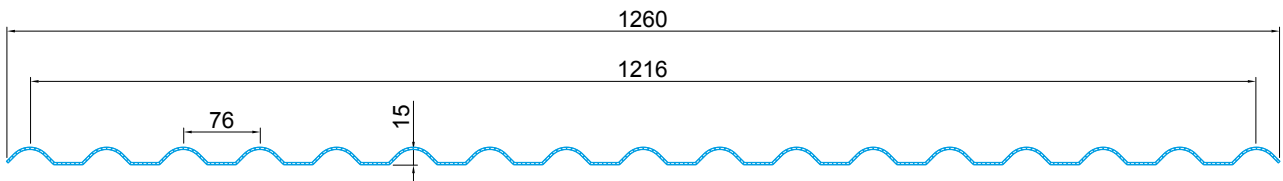
LIGHT T 333/45 compatible with "REX 45.333.1000"



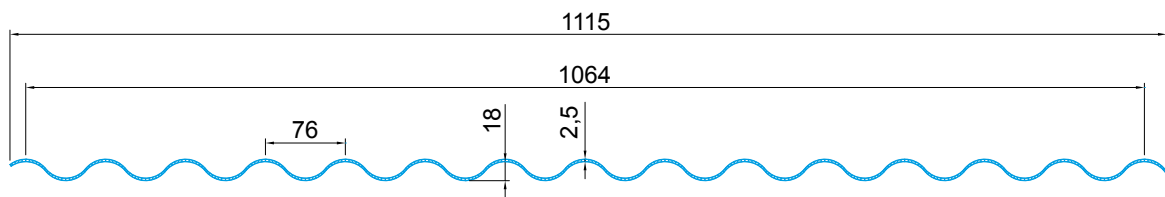
LIGHT T 333/40 compatible with "ISOCINDU ISOCOP 4G"



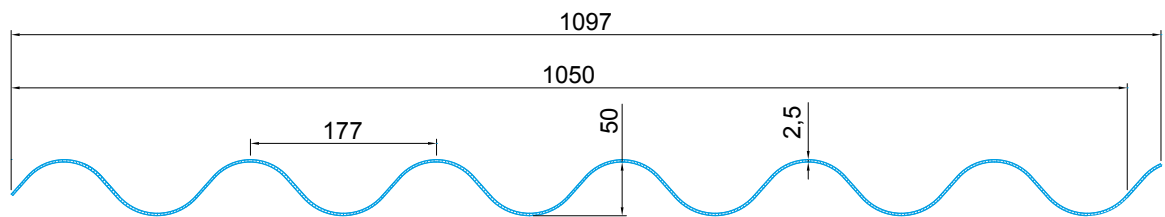
LIGHT T 333/39 compatible with "HAIRONVILLE 39/333"



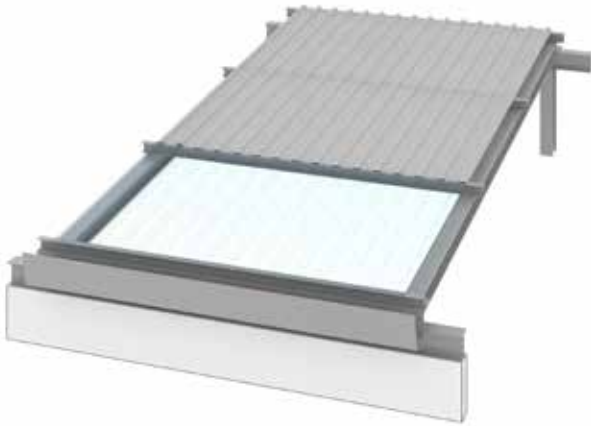
LIGHT W 76/15



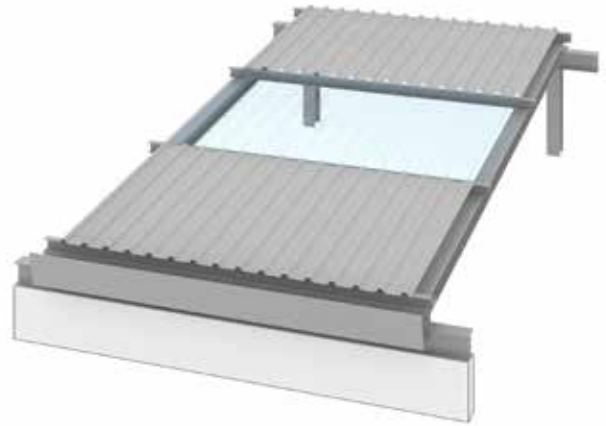
LIGHT W 76/18



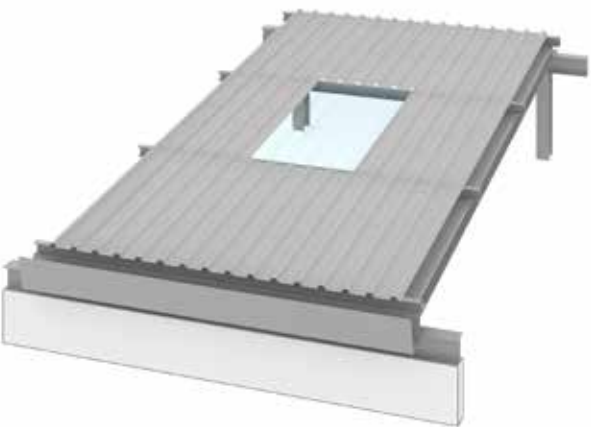
LIGHT W 177/51 compatible with "ETERNIT 177/51"



APPLICATION WITH OVERLAPPING



MIDDLE APPLICATION



APPLICATION WITH 4 SIDES OVERLAPPING



MICROPRISMA
MILLERIGHE

TOPLIGHT

SOLID CORRUGATED SHEETS WITH COEXTRUDED UV PROTECTION



TOPLIGHT CHARACTERISTICS

Thickness	0,8 mm - 2 mm*	
Structure	Solid sheet	
Panel length	On request (maximum recommended length 7 m)	
Service temperature	- 40 °C / + 120 °C	
UV protection	Coextruded on the external side (on request on both sides)	
Thermal expansion	65 x 10 ⁻⁶ K ⁻¹ (=0,065 mm/m °C)	
Light transmission**	Clear (T011)	90% (±5)
	Opal (T035)	76% (±5)
Warranty	Limited 10-yrs warranty against breakage due to hailstones, yellowing and loss of light transmission	

* The available thicknesses can also vary according to the shapes. Please contact our offices for further details.

** value determined by internal test (for some colors it is not possible to meet the tolerances indicated, for more information please contact our offices)

APPLICATION AND STRENGTHS

TOPLIGHT sheets are solid corrugated polycarbonate sheets with coextruded UV protection on the outer side (on request it is possible to produce sheets with UV protection on both sides).

TOPLIGHT sheets are available with ten-years warranty against hail, yellowing and loss of light transmission and have an European fire certification (Euroclass B-s1-d0).

TOPLIGHT is an ideal product for industrial application, in combination with the main metal corrugated sheets or sandwich panels available on the market, as well as suitable for wall and roof applications in greenhouses.

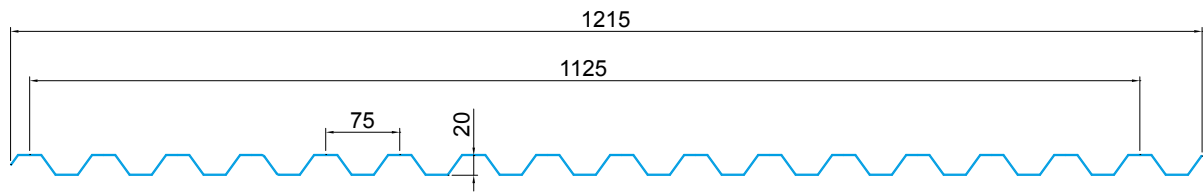
TOPLIGHT is also available in embedded versions:

- TOPLIGHT MICROPRISMA: sheets with microprismatic inner side, ideal for optimum diffusion of light.
- TOPLIGHT MILLERIGHE: sheets with inner side with miller frame for a permanent anti-condensation effect.

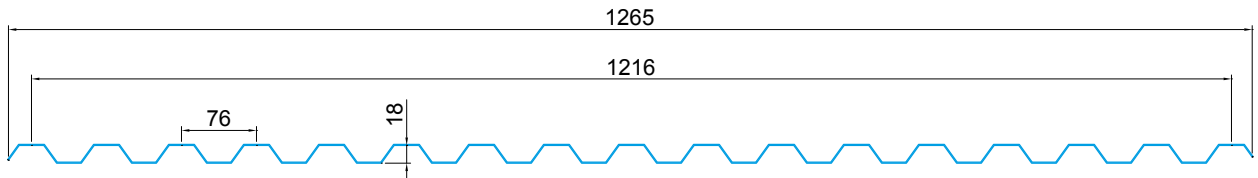
AVAILABLE SHAPES

Poly World Systems can provide a wide range of different profiles, off-the-shelf products, compatible with most common metal corrugated sheets and/or sandwich panels available on the market.

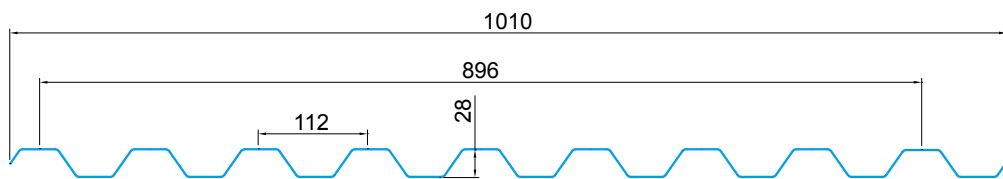
New profiles and custom-made products can be developed on Client's request.



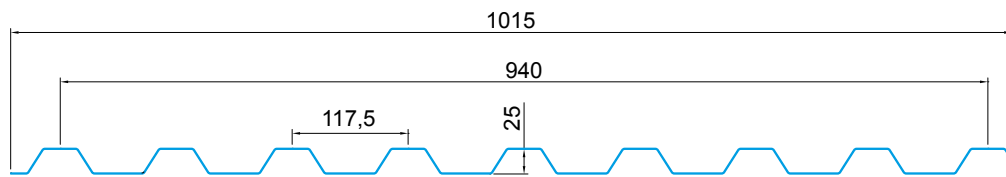
TOPLIGHT T 75/20



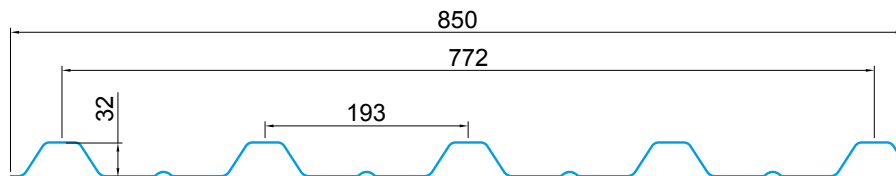
TOPLIGHT T 76/18



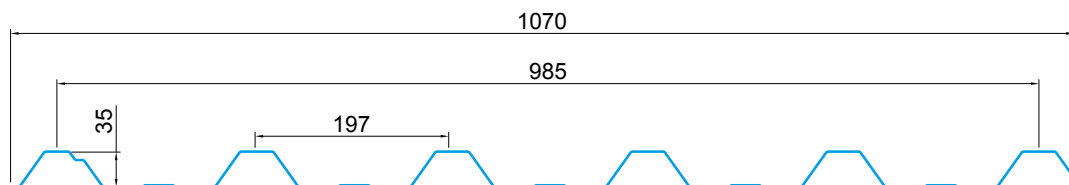
TOPLIGHT T 112/28



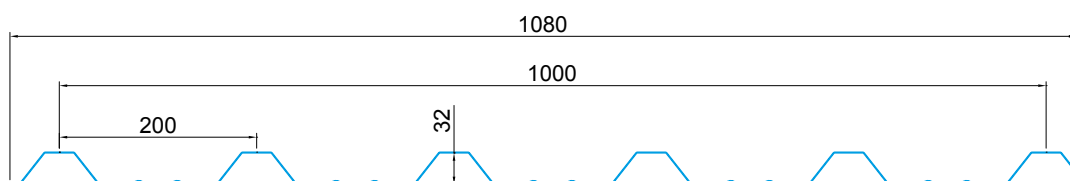
TOPLIGHT T 117/25 compatible with "ISOLPACK SL940"



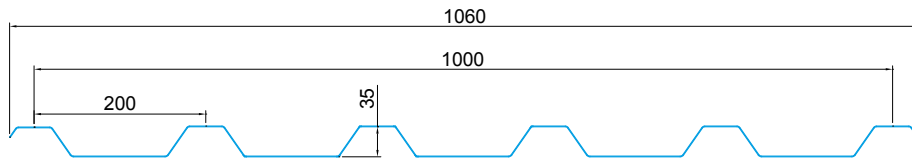
TOPLIGHT T 193/32 compatible with "ONDULIT COVERIB 850"



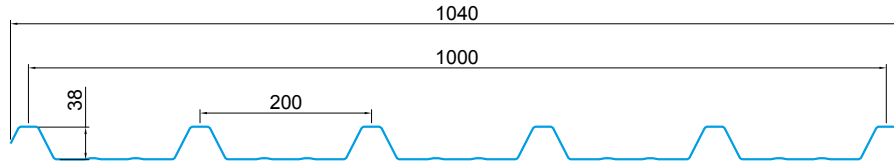
TOPLIGHT T 197/35 compatible with "SILMA 6"



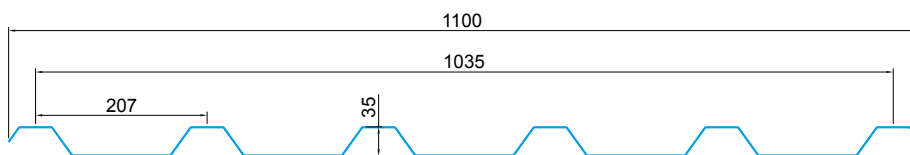
TOPLIGHT T 200/32 compatible with "HIANSA MT32"



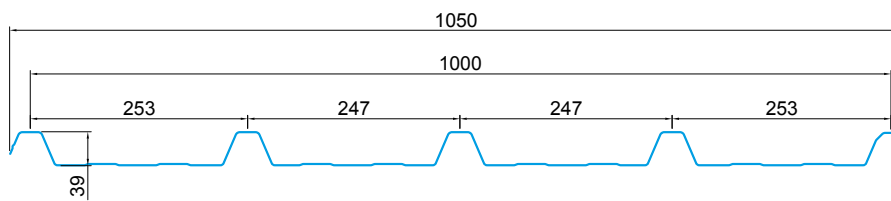
TOPLIGHT T 200/35 compatible with "TR35"



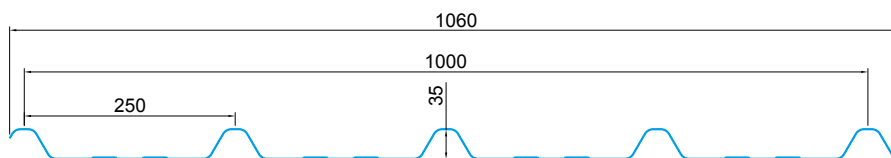
TOPLIGHT T 200/38 compatible with "LATTONEDIL ISOCOPRE"



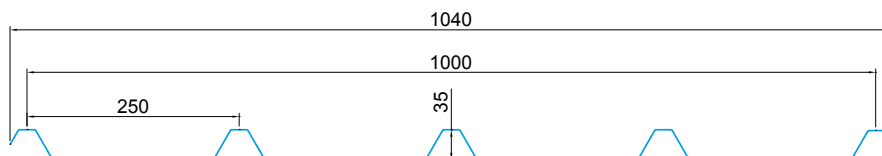
TOPLIGHT T 207/35 compatible with "KLOCKNER 35/207"



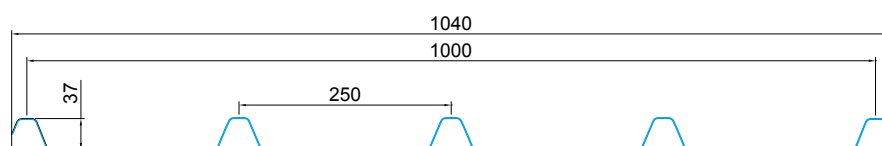
TOPLIGHT T 247/39 compatible with "SILEX"



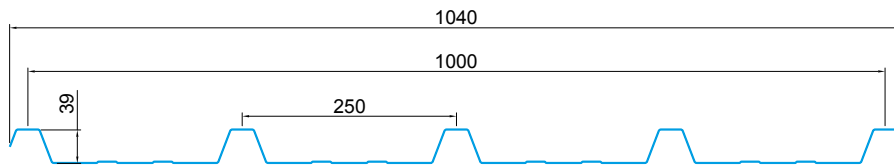
TOPLIGHT T 250/35 compatible with "REX 33.250.1000"



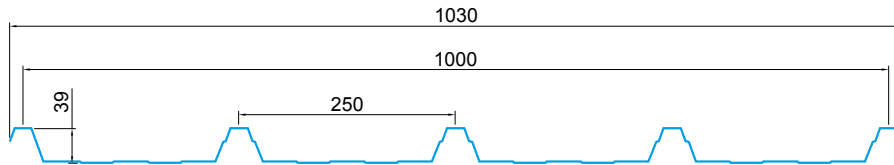
TOPLIGHT T 250/35 compatible with "METECNO G5 TOPROOF"



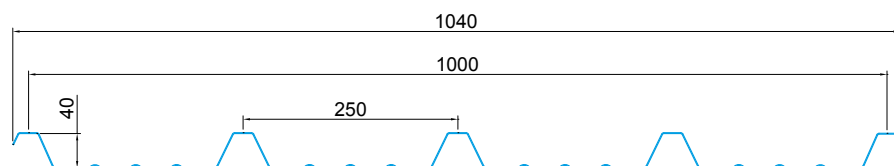
TOPLIGHT T 250/37 compatible with "LATTONEDIL EURO CINQUE"



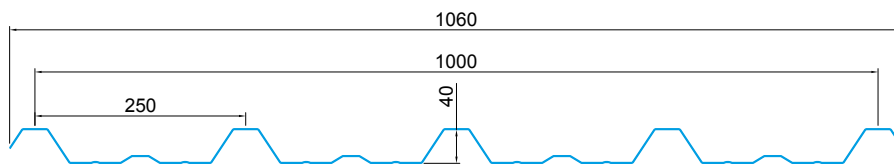
TOPLIGHT T 250/39 compatible with "MARCEGAGLIA BROLLO"



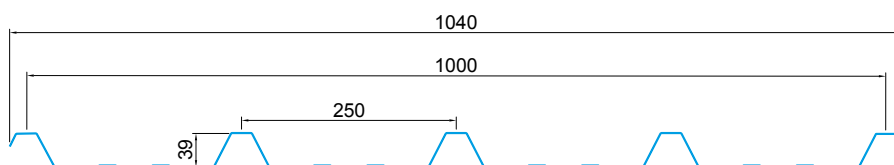
TOPLIGHT T 250/39 compatible with "ITALPANNELLI PENTA"



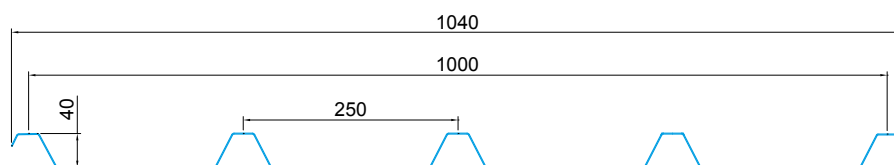
TOPLIGHT T 250/40 compatible with "ISOLPACK DELTA 5A"



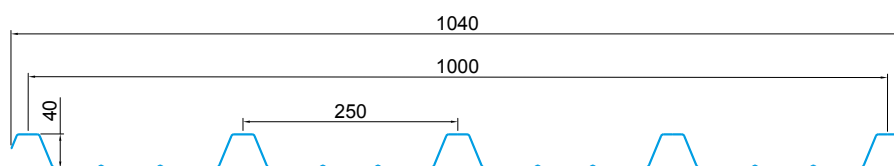
TOPLIGHT T 250/40 compatible with "ISOLPACK RW1000"



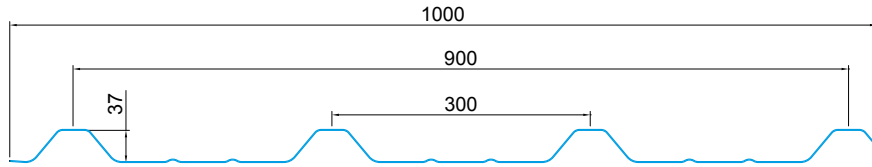
TOPLIGHT T 250/40 compatible with "SANDRINI SAND40"



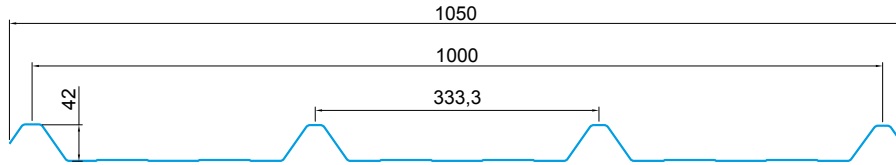
TOPLIGHT T 250/40 compatible with "ALUBEL DACH"



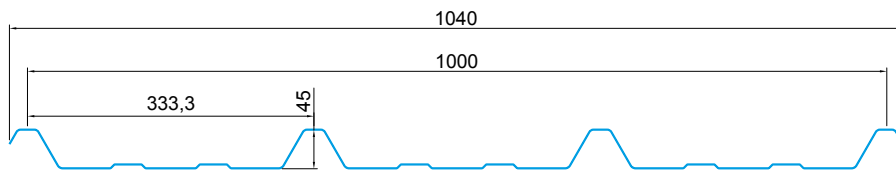
TOPLIGHT T 250/40 compatible with "ISOPAN ISOCOP"



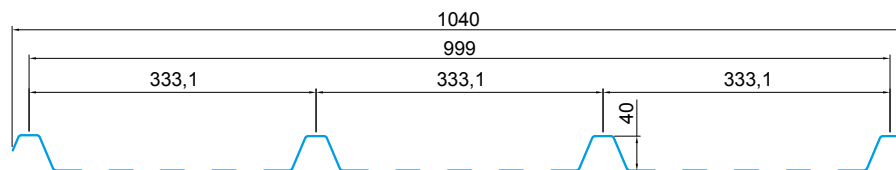
TOPLIGHT T 300/37 compatible with "ONDULIT COVERIB 1000"



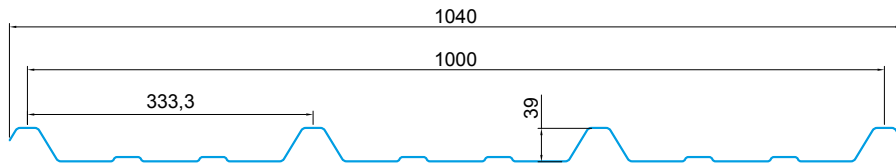
TOPLIGHT T 333/42 compatible with "KINGSPAN KS1000"



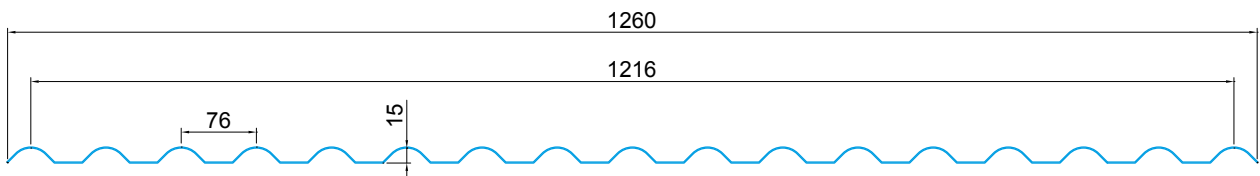
TOPLIGHT T 333/45 compatible with "REX 45.333.1000"



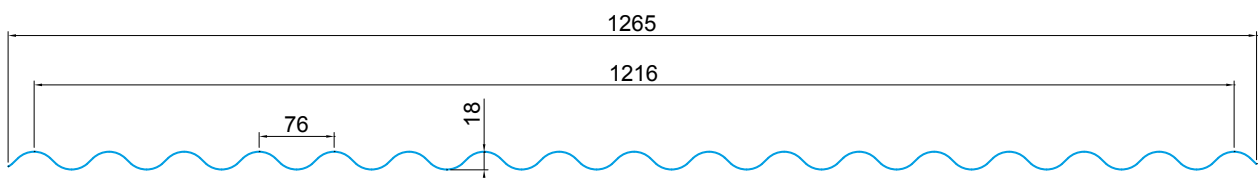
TOPLIGHT T 333/40 compatible with "ISOCINDU ISOCOP 4G"



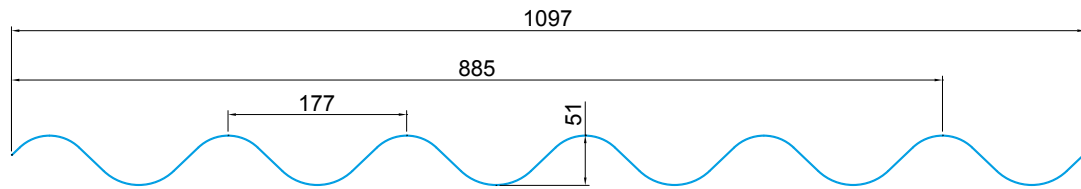
TOPLIGHT T 333/39 compatible with "HAIRONVILLE 39/333"



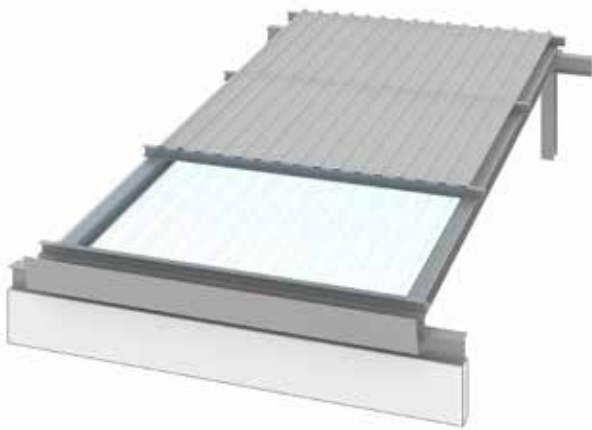
TOPLIGHT W 76/15



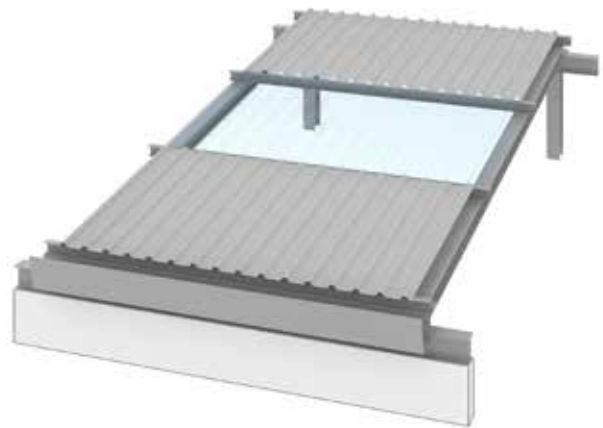
TOPLIGHT W 76/18



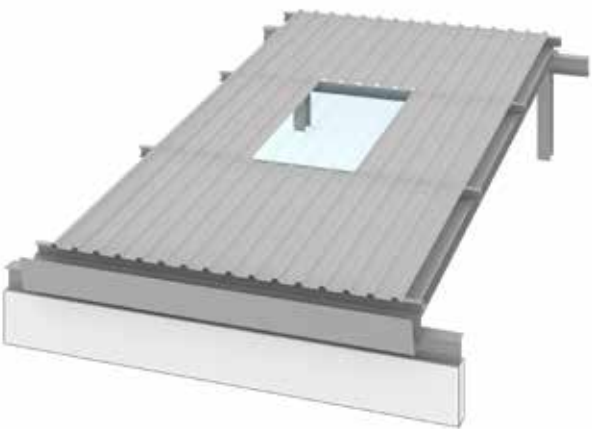
TOPLIGHT W 177/51 compatible with "Eternit 177/51"



APPLICATION WITH OVERLAPPING



MIDDLE APPLICATION



APPLICATION WITH 4 SIDES OVERLAPPING





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