



Grecatec®

Macrolux®
Systems

**POLYCARBONATE
SYSTEMS**

More light for a better life



Stabilit Europa was created in 2000 as a subsidiary in Spain of Stabilit S.A. belonging to the Verzatec Group, one of the most important companies worldwide in the manufacture and marketing of plastic laminates, with more than 50 years of experience.

Stabilit Europa produces a wide range of translucent and opaque laminates, translucent to take advantage of natural light in all kind of buildings, and opaque for industrial coatings and for the automotive industry.

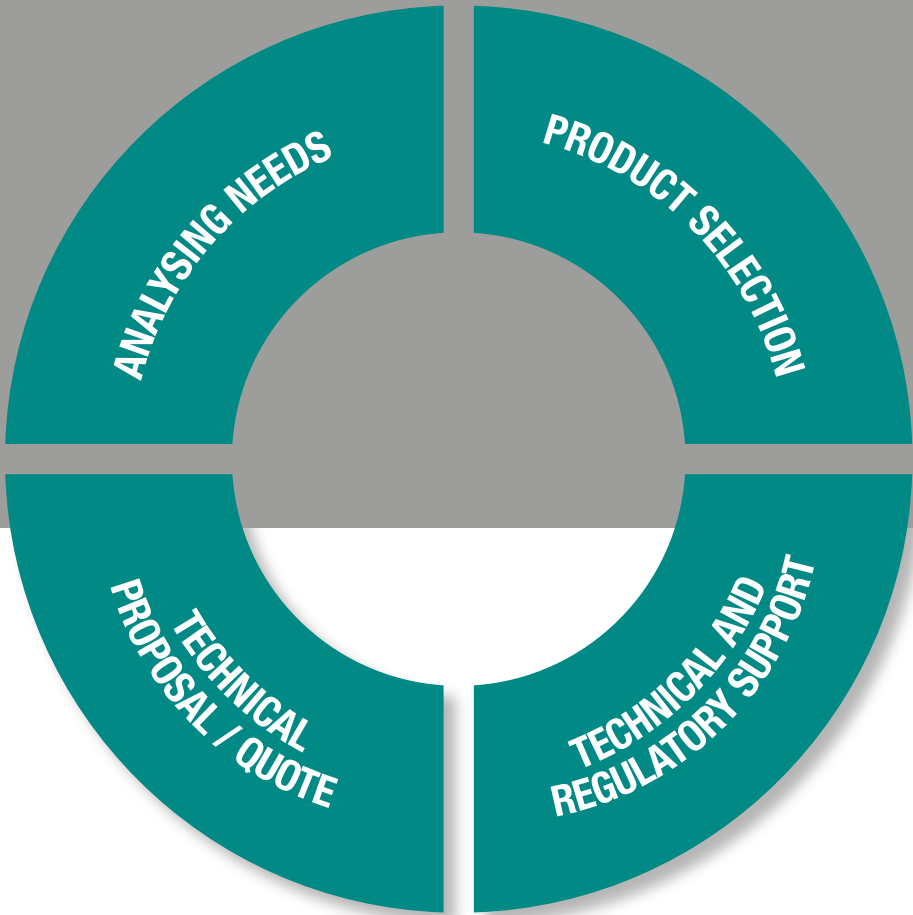
Stabilit Europa is a company that is distinguished by a philosophy of continuous improvement. Its leadership is based on the use of advanced technology in its equipment and production processes, as well as the high quality and variety of its products.

Stabilit Europa has been created to attend, provide service and provide the needs of the European market in this type of products.

Customer focus

Stabilit is a leader in promoting innovative solutions that anticipate customer demands and market trends, predicting future needs and staying at the cutting edge. **Stabilit Europa, s.l.u.** is the go-to partner for customers looking for a company who will be with them every step of the way, from the drawing board through to installation of the finished product.

An all-round approach to see your project through to success



step 1

ANALYSING NEEDS

The brief is the most delicate stage of the process. This is where initial ideas are bounced around to come up with possible solutions that will create the base of the project.

step 2

PRODUCT SELECTION

During this stage, customers draw on our team's expertise to decide on one or more potential solutions. Samples, technical data sheets and drawings make for creative, instructive sessions.

step 3

TECHNICAL AND REGULATORY SUPPORT

Every project has its technical and environmental restrictions. With our experience, we can help you choose the safest, most reliable solutions. It is common knowledge that regulations can dictate both technical and financial choices and hence require careful evaluation.

step 4

TECHNICAL PROPOSAL / QUOTE

This is the final stage of a joint process at which both the supplier and purchaser see the fruits of their efforts, rewarded by the mutual knowledge that this is the best solution. Stabilit's support doesn't end here: we are there to help you through the subsequent installation stages, too.

Assistance to ensure correct installation

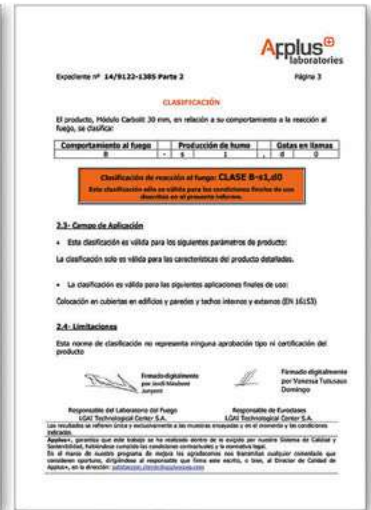
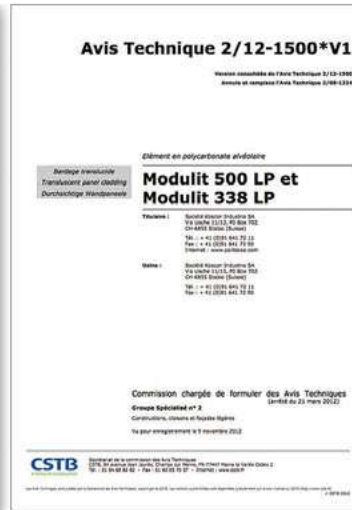
OUR GREATEST AMBITION IS FOR THE APPLICATION TO BE A SUCCESS.

We also provide assistance at the construction site, making sure the chosen products are installed correctly so you get the most out of them.

Our main objective is to achieve end customer satisfaction and see that each application stands as a showcase for everyone involved.

Product certification

Certification



Stabilit products are certified by internationally accredited bodies and institutions, such as:

France: CSTB, LNE

Italy: CSI, Istituto Giordano

Switzerland: FPC

Germany: Hoch

New Zealand: BEAL

USA: Architectural Testing

Hungary: ÉMI

Poland: ITB

Spain: Applus + Laboratories

Our sales department will be more than happy to give you detailed information on which certificates are available and on tested products.

Company certification

UNI EN ISO 9001 certification

Our UNI EN ISO 9001 certification provides assurance in terms of quality, service and the testing of the raw materials we use, requiring us to meet stringent production standards and comply with strict control procedures.

Polycarbonate

Transparency 89%

Dimensional stability from -40°C to +130°C

High impact resistance from -20°C to +125°C

Self-extinguishing (oxygen index 28%)

Low creep

Low density (1,21 g/cm³)

Excellent thermal and electric insulation

Extremely low moisture absorption (0,3%)

Good UV resistance

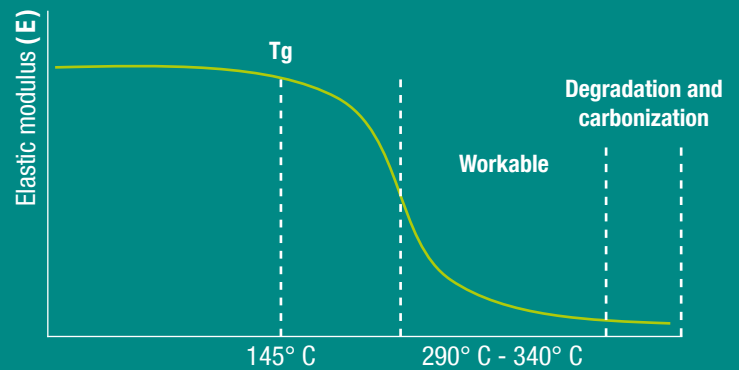


Morphological structure

Amorphous Aromatic Polymer

Polyester Family

Just one Tg a 138°C ~ 145°C



$$E_{\text{glass}} = 70000 \text{ N/mm}^2 - E_{\text{PC}} = 2300 \text{ N/mm}^2 - E_{\text{ALU}} = 7200 \text{ N/mm}^2$$

PC: main advantages

Light weight and transparency	lighter structure
Can be produced in low thicknesses	lighter weight
Self-extinguishing	good reaction to fire performance
Versatile to use	cold bending and thermobending
Visual adaptability	option of colouring with increasing degrees
Wide choice of surface finishes	plain, embossed, painted [■] and metallic
Impact	ductile break = no shards in event of breakage
Dimensional stability	guaranteed long term
Compliance with industry standards	flammability, thermal insulation, loads
LCA (Life Cycle Assessment)	favourable and totally recyclable at end of life cycle
[■] Choosing the right solvent is essential to avoid damaging the polymer	

Polycarbonate properties

Polycarbonate is a thermoplastic polymer boasting excellent mechanical and physical properties. It is ductile and hardwearing, which is why it is used for such applications as producing CDs and DVDs; while the automotive, aviation and ballistics industries (airplane windows, car headlights, riot shields and helmets, etc.) value it for its impact resistance. All the above properties, along with its transparency, make polycarbonate suitable for building applications.

Technical data		Value	Unit	Standard
Mechanical properties				
Yield stress (50 mm/min)		63	MPa	ISO 527
Stress at break (50 mm/min)		70	MPa	ISO 527
Yield strain (50 mm/min)		6	%	ISO 527
Strain at break (50 mm/min)		120	%	ISO 527
Tensile modulus (1 mm/min)		2350	MPa	ISO 527
Impact properties				
Charpy V-notched impact strength	+ 23°C	75	kJ/m ²	ISO 179/1eA
	- 30°C	15	kJ/m ²	ISO 179/1eA
Izod notched impact strength	+ 23°C	70	kJ/m ²	ISO 180/1A
	- 30°C	12	kJ/m ²	ISO 180/1A
Physical properties				
Density		1,2	g/cm ³	ISO 1183
Water absorption (23°C; saturation)		0,35	%	ISO 62
Moisture absorption (23°C; 50% RH)		0,15	%	ISO 62
Water vapor permeability (23°C; 85% RH; 0,1 mm)		15	g/(m ² 24h)	ISO 15106-1
Thermal properties				
Coefficient of linear thermal expansion (23°C÷55°C)		0,65	10 ⁻⁴ /K	ISO 11359-2
Thermal conductivity		0,20	W/(m K)	ISO 8302
Vicat softening temperature (50N; 120°C/h)		145-149	°C	ISO 306
<i>Typical values referred to polycarbonate as raw material.</i>				

Comparison with other products

When compared with other commonly used construction plastics and with glass, polycarbonate demonstrates superiority in various properties.

	U.M.	PC	PMMA	PVC	PET	GRP	Glass
Density	g/cm ³	1,20	1,19	1,38	1,33	1,42	2,50
Strength	kJ/m ²	70	2	4	3	1,2	-
Modulus of elasticity	N/mm ²	2.300	3.200	3.200	2.450	6.000	70.000
Linear thermal expansion	1/°C	6,5 x 10 ⁻⁵	7,5 x 10 ⁻⁵	6,7 x 10 ⁻⁵	5,0 x 10 ⁻⁵	3,2 x 10 ⁻⁵	0,9 x 10 ⁻⁵
Thermal conductivity	W/m K	0,20	0,19	0,13	0,24	0,15	1,3
Max. service temperature	°C	120°	90°	60°	80°	140°	240°
UV transparency	%	4	40	nd	nd	19	80
Fire performance	-	very good	poor	good	good	poor	fireproof
Resistance to weathering	-	good	very good	poor	fair	poor	excellent
Chemical compatibility	-	fair	fair	good	good	good	very good



Grecatec®

Introduction page 10

Grecatec®
250 / 40
10 - 25 mm

page 12

Grecatec®
250 / 80
10 mm

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Grecatec®
112 / 28
6 mm

page 22

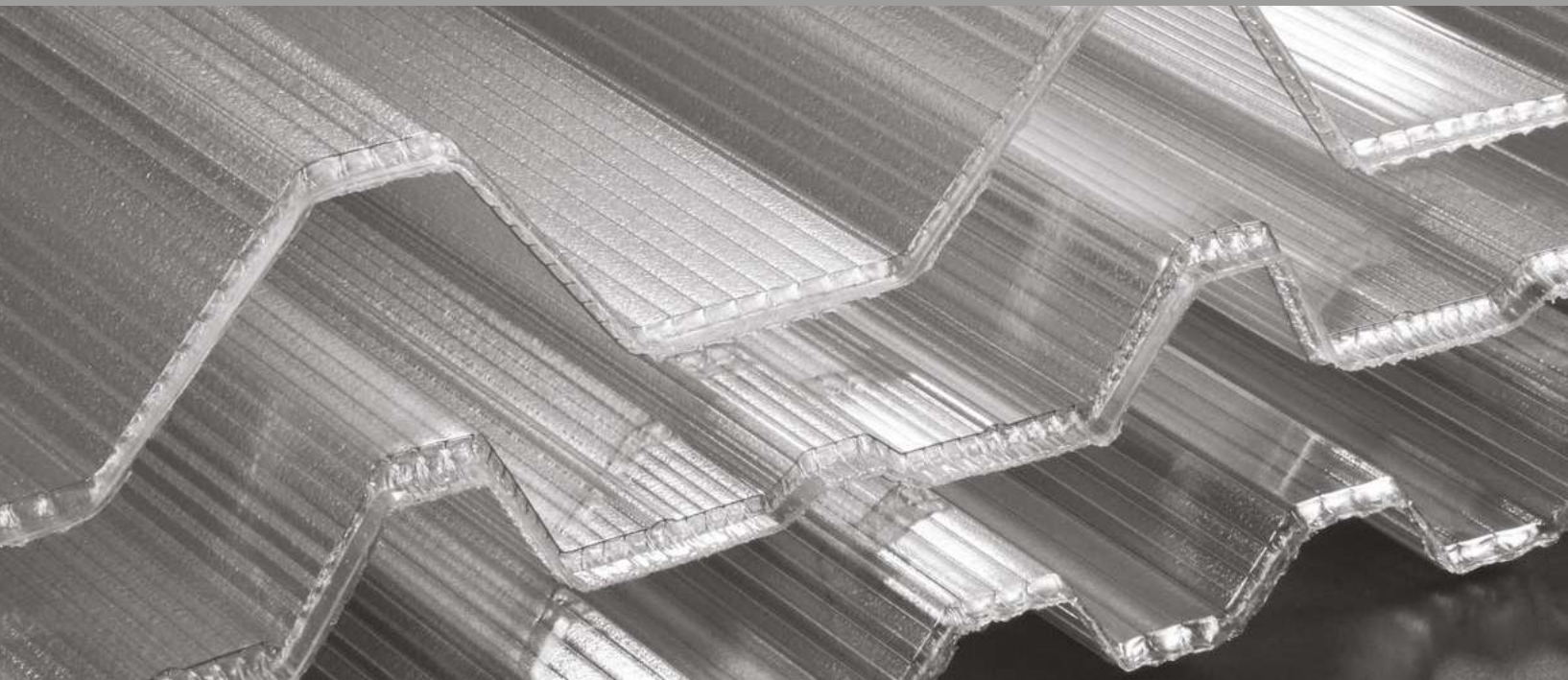
Grecatec®
333 / 45
16 mm

page 25

Grecatec®
18 / 76
2 mm

page 28

Grecatec®



Lightweight

High thermal insulation

Excellent impact resistance

Good light transmission

Good fire performance

Certified quality warranty

UV protection

Grecatec® panels are recommended for applications in combination with sandwich panels of the major manufacturers, where it is necessary to create one or more spot lights. They are especially suitable in replacement or refurbishment of ridge/gutter roofing applications, for the production of large surfaces. Most of the **Grecatec®** panels are available in flat version and in different thicknesses. The product is supplied with thermowelded ends to reduce the condensation and the accumulation of dirt on the inside of the structure. It overlaps laterally and longitudinally, thus creating the possibility to realize lengths covering the whole slope. The range of optional accessories which completes **Grecatec®** installation making its use very easy and versatile.

Impact resistance

Polycarbonate's mechanical properties make this the technopolymer with the highest impact resistance, allowing it to provide optimum protection against accidental damage and weather-related damage. These qualities mean polycarbonate significantly outperforms other materials (glass, acrylic, PET, etc.) commonly used in applications where transparency is a key requirement. Impact resistance remains constant across a particularly wide temperature range.

UV protection

Applying UV Absorber protection stops polycarbonate from absorbing UV rays that would otherwise lead to its rapid degradation and be responsible for subsequent yellowing and for undermining the strength of the exposed surface. UV protection is applied using co-extrusion technology, whereby an even shielding layer can be produced to screen the polycarbonate from the UV component of the solar radiation. With this technology, the UV protection is made resistant to weathering and is not prone to damage by incorrect maintenance.

Warranty

The panels with UV protection offer a 10-year warranty against yellowing, loss of light transmission and hail damage. Our sales department will be happy to provide you the exact warranty terms.

Fire behaviour

Fire safety is a fundamental necessity. **Grecatec®** panels are tested in independent qualified laboratories on the basis of current applicable regulations in the construction industry. Our offices are at your disposal to provide you with details regarding the available certificates.

Thermal transmittance

Thermal transmittance, or U-value, (unit of measure $W/m^2 K$) is the mean flow of heat per m^2 that passes through a structure (the polycarbonate panel) separating two environments with different temperatures (usually separating a heated or air-conditioned room from outdoors). The lower this value, the more effective the insulation offered by the panel. With a view to reducing heating/air-conditioning costs - with a consequent reduction in harmful emissions into the atmosphere - international standards require both building materials and fenestration systems to meet ever-stricter thermal transmittance requirements. With its extensive range of multiwall panels, **Stabilit Europa, s.l.u.** is at the cutting edge when it comes to providing its customers with the most appropriate solutions in compliance with current standards.

Thermal expansion

Thermal expansion is a characteristic property of materials that consists in their tendency to change in size as temperature increases. This expansion is quantified via a coefficient that, in the case of polycarbonate, equates to 0,065 mm/m °C. The fact that this coefficient value is much higher than the values associated with materials usually used for roofing and joinery (aluminium, steel, etc.) generates the need for solutions that compensate for this difference in thermal expansion, which thus needs to be factored in at the design stage and in all building applications.

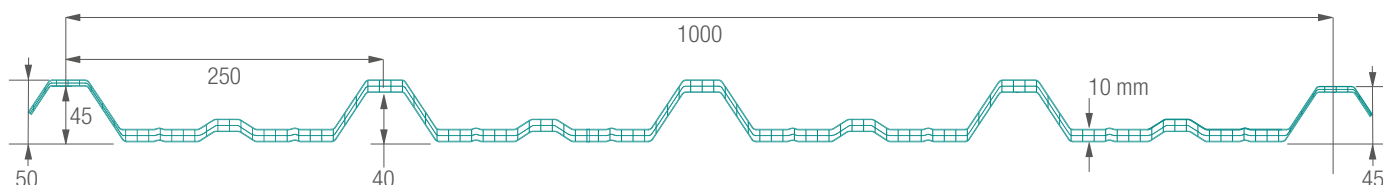
Light transmission

Proper lighting design entails ensuring that the building interior receives the required amount of light. So it is clearly important to use panels that let enough light through. The **Grecatec®** product range gives you plenty of choice at the design stage of your project, with an array of colour options to meet your every need.

Grecatec® 250/40 10 mm



Grecatec® 250/40 10 mm is a corrugated multiwall panel, designed to be used for roofs and vertical walls in industrial buildings. It is used both in continuous roofing and single skylights (flat and curved) in combination with sandwich panels and corrugated metal profiles in both sheds and vertical curtain walls. The panel can be supplied with UV-resistant transparent coextruded gasket to increase the performance of air and water resistance.



Grecatec® 250/40 10 mm technical data

Thickness	10 mm		
Walls nr.	3		
Trapez pitch	250 mm		
Height	40 mm		
Width	1000 mm		
Length	Upon request (maximum recommended length 6 m)		
Bending radius (thermobending)	3500 mm / 6000 mm		
Thermal transmittance	2,8 W/m ² K		
Colours		LT	G value
	Clear (8005)	72%	-
	Opal (8121)	55%	-
UV protection	Coextruded on the external side		
Warranty	10-year warranty against hail damage, yellowing, loss of light transmission		
Service temperature	-40°C / +120°C		
Thermal expansion coefficient	0,065 mm/m°C (6,5 x 10 ⁻⁵ /k)		
Fire certification	EUROCLASS B s1 d0		

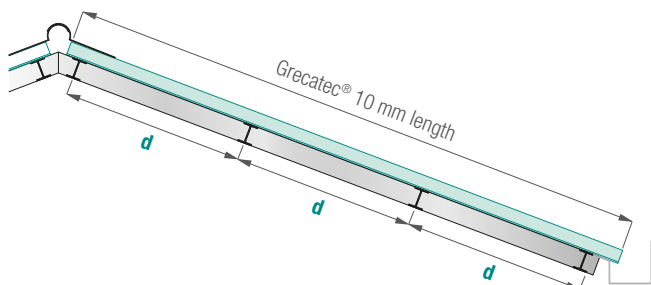
FLAT ROOF SPECIFICATIONS

Construction of a flat translucent roof and / or skylight consisting of:

- Greccatec® 250/40 10 mm multiwall polycarbonate panel, co-extruded UV-protection on the external side, 3 walls structure, 10 mm thickness, trapez height 40 mm, thermal transmittance 2,8 W/m² K, clear or opal colours, thermowelded ends; dimensions: useable width 1000 mm, length upon request; 10-year warranty.
- The panel can be supplied with UV-resistant coextruded transparent gasket to increase the performance of air and water tightness.
- PE spacer.
- Metal half-ridge cover (upon request).

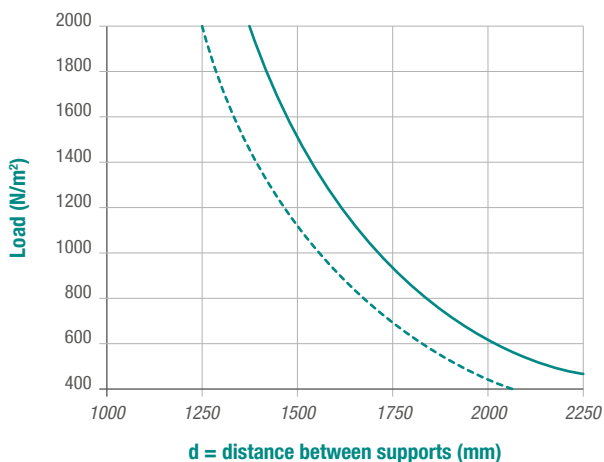


Greccatec® 250/40 10 mm load charts



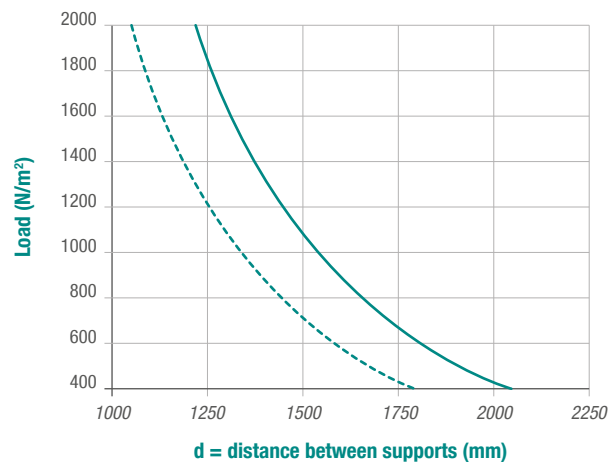
Load chart with 3 or more supports for FLAT solution

Skylight



Camber 1/50 – distance between supports -----
Maximum camber limit 50 mm ———

Continuous application

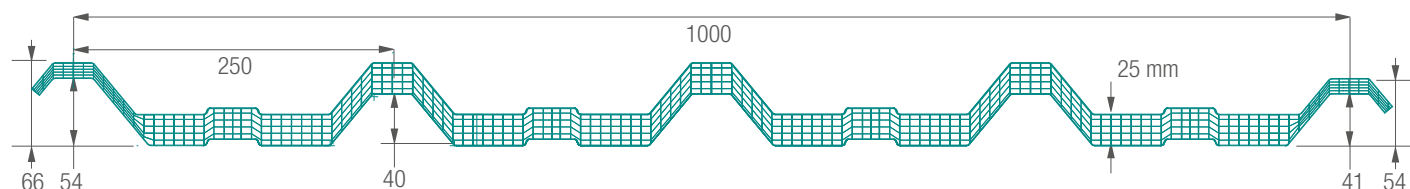


NOTE: minimum recommended slope 5%.

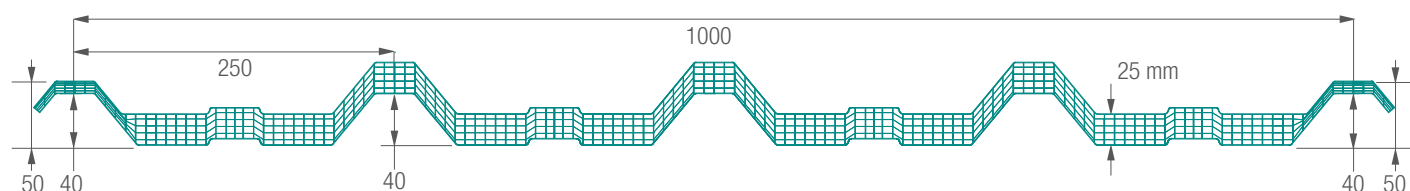
Greccatec® 250/40 25 mm



Greccatec® 250/40 25 mm is a corrugated multiwall panel, designed to be used for roofs and vertical walls in industrial buildings. It is used both in continuous roofing and single skylights (flat) in combination with sandwich panels and corrugated metal profiles in both sheds and vertical curtain walls. The panel can match various design requirements thanks to the corrugated 6-wall section which gives it a high load resistance. The shape of the overlaps allows side coupling with almost any insulated panel, keeping the fixing distance to 1 m between the panels. The two versions available with different heights of the external ridges have been designed to optimize the option either in combination with sandwich panels or in combination with polycarbonate panels. **Greccatec® 250/40 25 mm** panels can be supplied with UV-resistant transparent coextruded gasket to increase the performance of air and water tightness.



Continuous application



Single application with sandwich panels

Greccatec® 250/40 25 mm technical data

Thickness	25 mm		
Walls nr.	6		
Trapez pitch	250 mm		
Height	40 mm		
Width	1000 mm		
Length	Upon request (maximum recommended length 6 m)		
Bending radius (thermobending)	3500 mm / 6000 mm		
Thermal transmittance	1,4 W/m² K		
Colours		LT	G value
	Clear (8005)	45%	-
	Opal (8121)	-	-
UV protection	Coextruded on the external side		
Warranty	10-year warranty against hail damage, yellowing, loss of light transmission		
Service temperature	-40°C / +120°C		
Coefficient of thermal expansion	0,065 mm/m°C (6,5 x 10 ⁻⁵ /k)		
Fire certification	EUROCLASS B s1 d0		

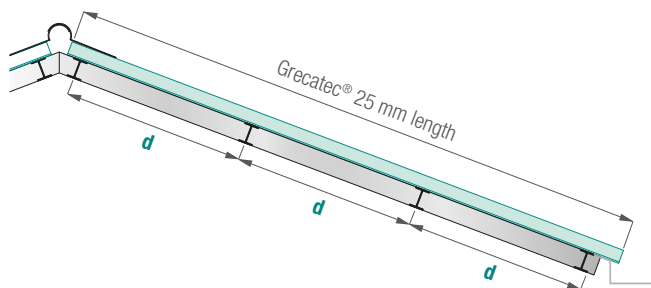
FLAT ROOF SPECIFICATIONS

Construction of a flat translucent roof and / or skylight consisting of:

- **Grecatec® 250/40 25 mm** multiwall polycarbonate panel, co-extruded UV-protection on the external side, 6 walls structure, 25 mm thickness, trapez height 40 mm, thermal transmittance 1,4 W/m² K, clear or opal colours, thermowelded ends; dimensions: useable width 1000 mm, length upon request; 10-year warranty.
- Panel available in two versions: with external trapez at different heights for continuous coupling or with external trapez of the same height for coupling with sandwich panels.
- The panel can be supplied with UV-resistant coextruded transparent gasket, to increase the performance of air and water tightness.
- PE spacer.
- Metal half-ridge cover (upon request).

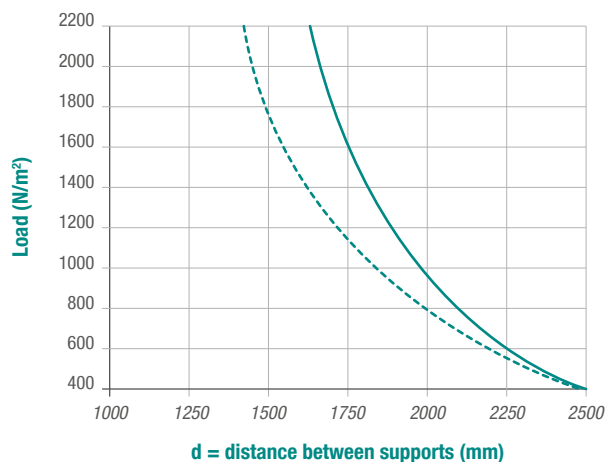


Grecatec® 250/40 25 mm load charts

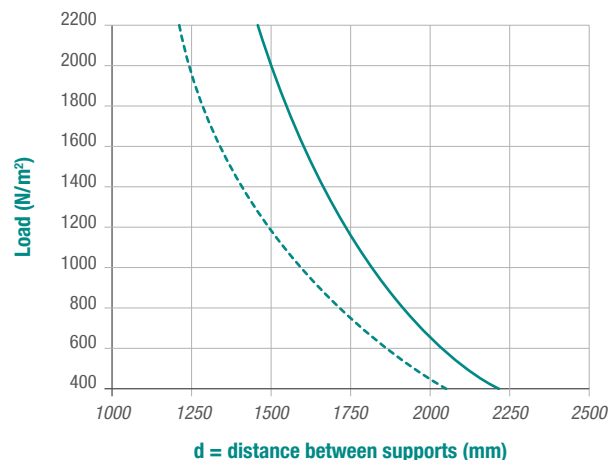


Load chart with 3 or more supports for FLAT solution

Skylight



Continuous application

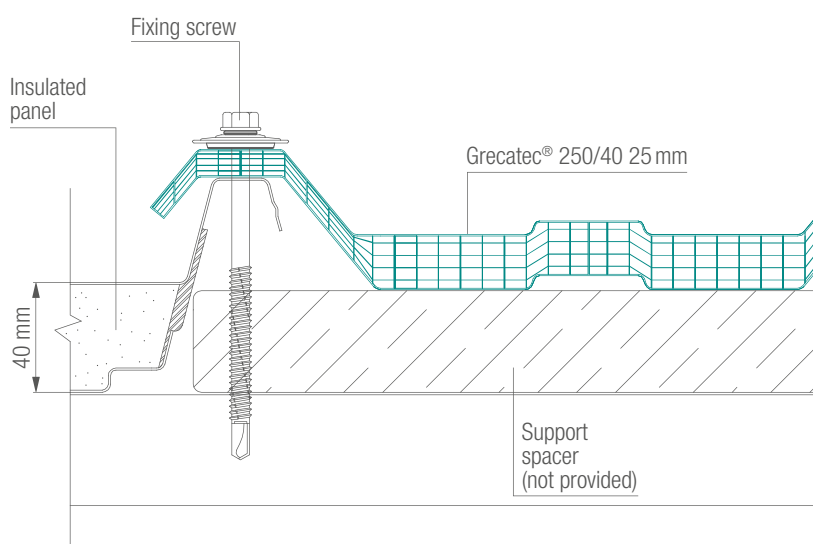


Camber 1/50 – distance between supports -----
Maximum camber limit 50 mm —————

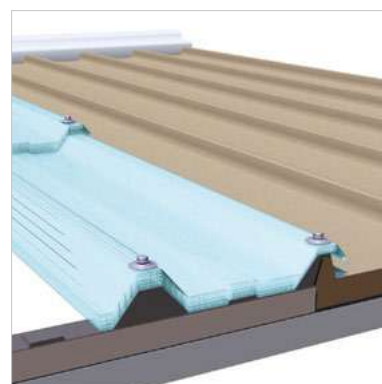
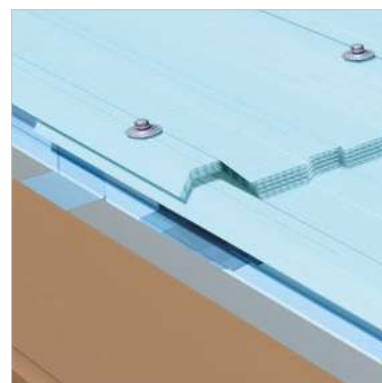
NOTE: minimum recommended slope 5%.

Installation options

Flat single installation



Detail for fixing and overlapping with Grecatec® 250/40 25 mm

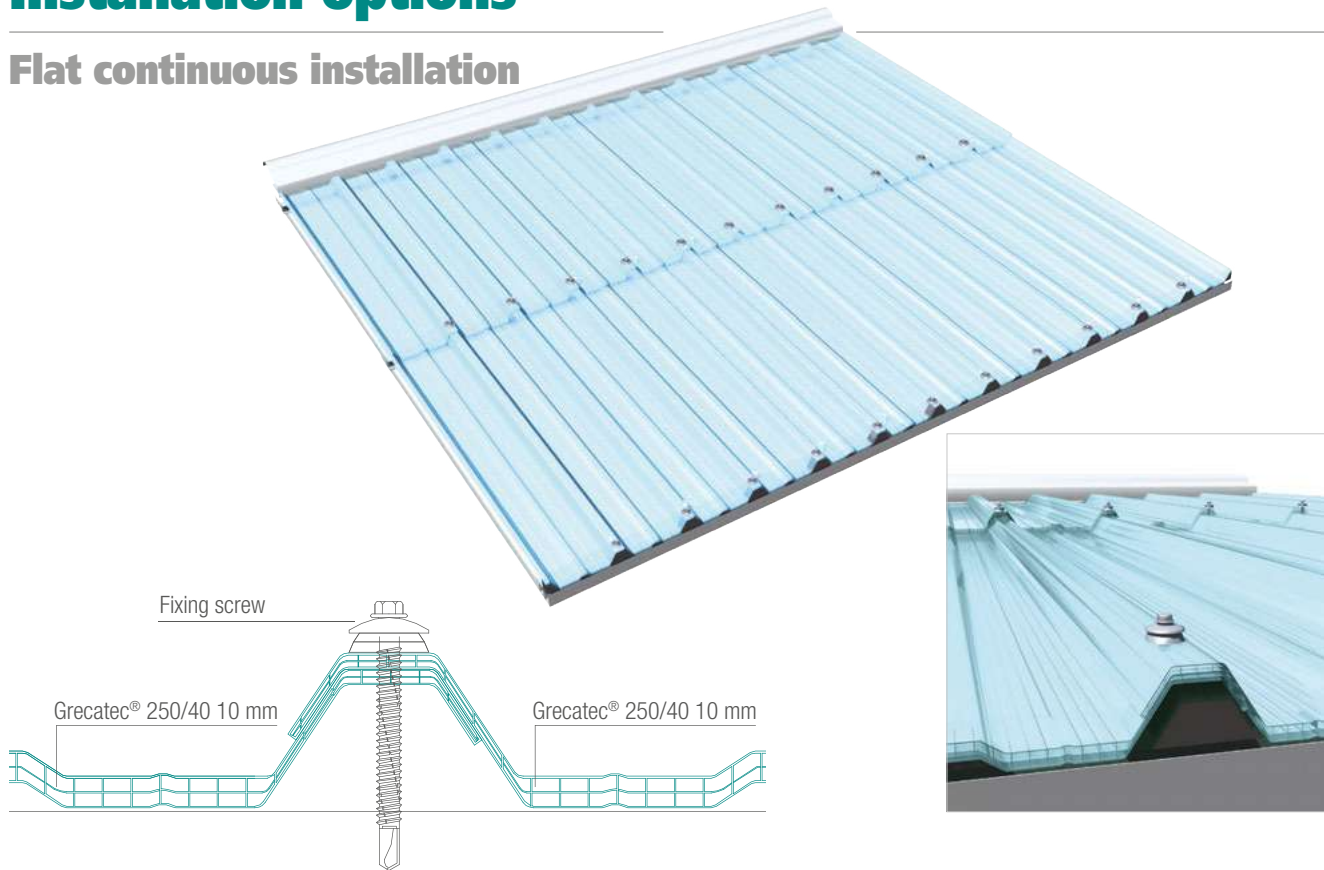


Grecatec® 250/40 accessories

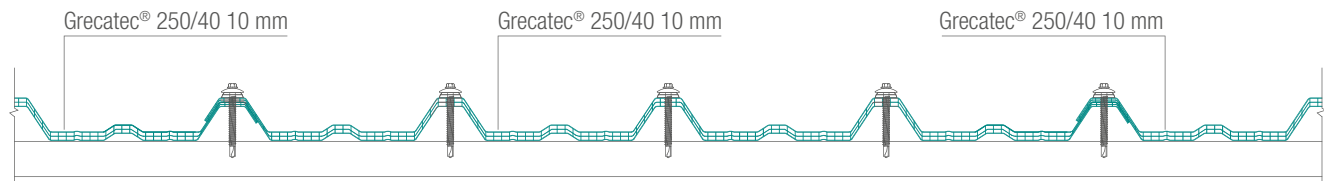
<p>Metal half-ridge cover</p>	<p>Upper and lower PE spacer</p>	<p>Long screw for fixing on high ridges</p>	<p>Short screw for fixing on low ridges</p>

Installation options

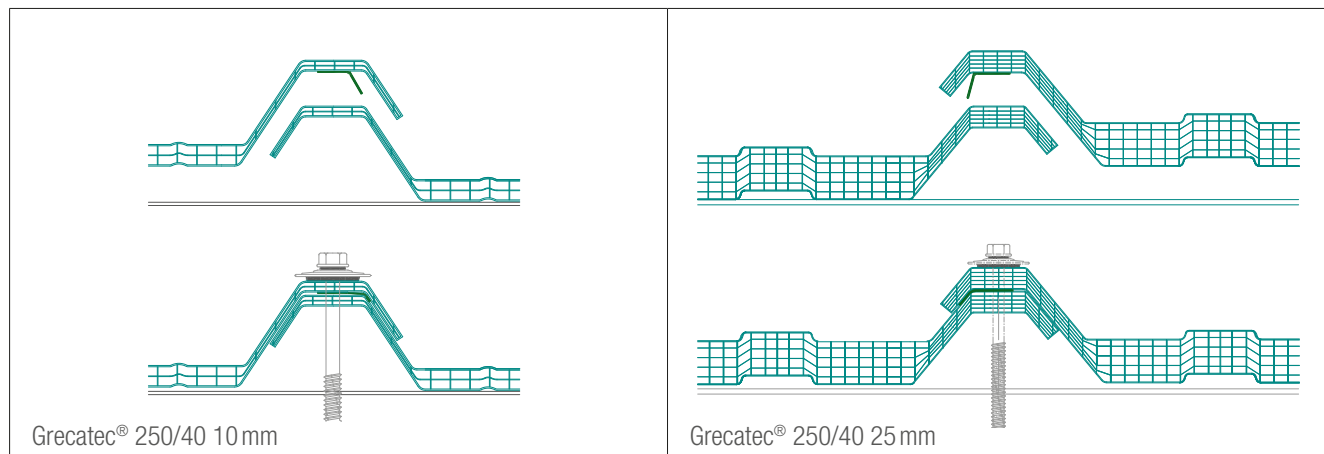
Flat continuous installation



Detail for fixing and overlapping with Grecatec® 250/40 10 mm



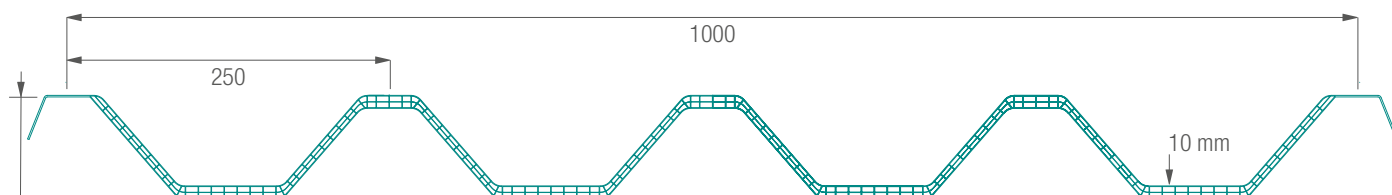
Integrated gasket



Greccatec® 250/80 10 mm



Greccatec® 250/80 10 mm is a corrugated multiwall panel designed for use in coverings and / or walls in the construction industry. It is used both in continuous roofing and single skylights (flat) in combination with sandwich panels and corrugated metal profiles for both wall shed and vertical curtain walls. Having a thickness of only 10 mm, the shape with a height of 80 mm ensures an excellent load resistance.



Greccatec® 250/80 10 mm technical data

Thickness	10 mm		
Walls nr.	3		
Trapez pitch	250 mm		
Height	80 mm		
Width	1000 mm		
Length	Upon request (maximum recommended length 6 m)		
Bending radius (thermobending)	3500 mm / 6000 mm		
Thermal transmittance	2,7 W/m² K		
Colours		LT	G Value
	Clear (8005)	66%	-
	Opal (8121)	49%	-
UV protection	Coextruded on the external side		
Warranty	10-years warranty against hail damage, yellowing, loss of light transmission		
Service temperature	-40°C / +120°C		
Thermal expansion coefficient	0,065 mm/m°C (6,5 x 10 ⁻⁵ /k)		
Fire certification	EUROCLASS B s1 d0		

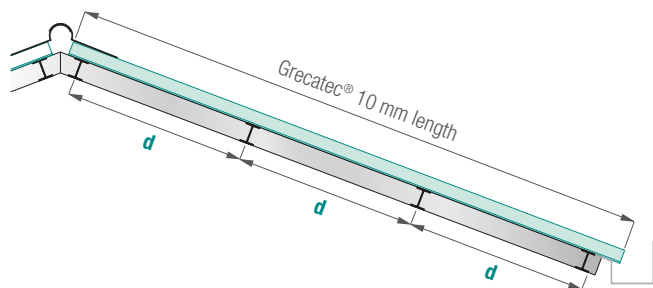
FLAT ROOF SPECIFICATIONS

Construction of a flat translucent roof and / or skylight consisting of:

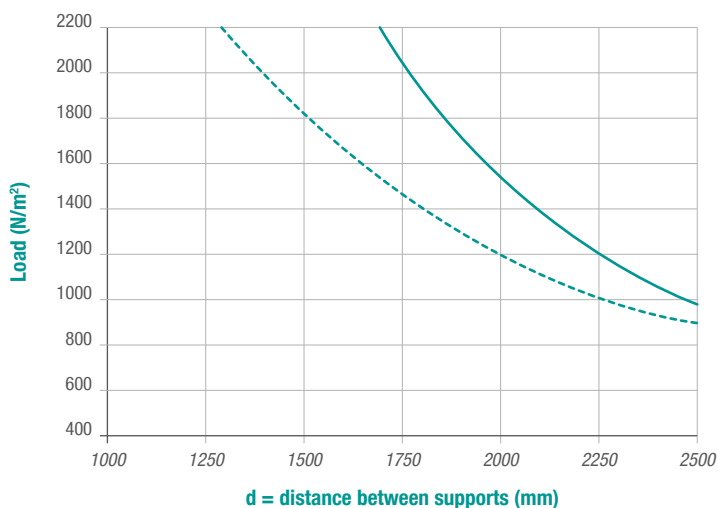
- Greccatec® 250/80 10 mm multiwall polycarbonate panel, co-extruded UV-protection on the eternal side, 3 walls structure, 10 mm thickness, trapez height 80 mm, thermal transmittance 2,7 W/m² K, clear or opal colours, thermowelded ends; dimensions: useable width 1000 mm, upon request lengths; ten-years warranty.
- PE spacer.
- Metal half-ridge cover (upon request).



Greccatec® 250/80 10 mm load charts



Load charts with 3 or more supports for FLAT solution

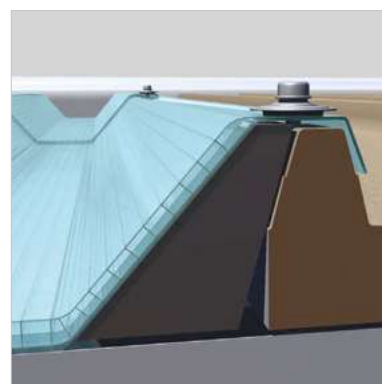
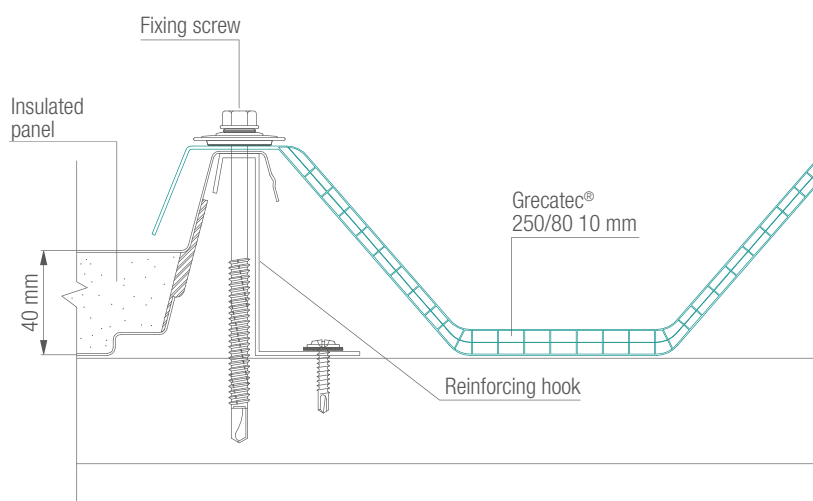


Continuous application -----
Skylight —————

NOTE: minimum recommended slope 5%.

Installation options

Flat single installation



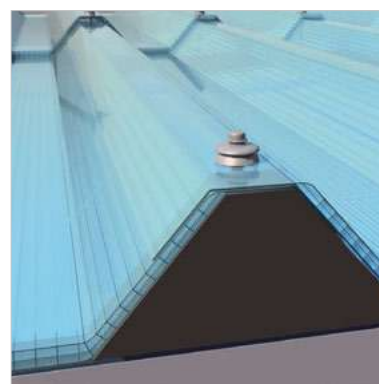
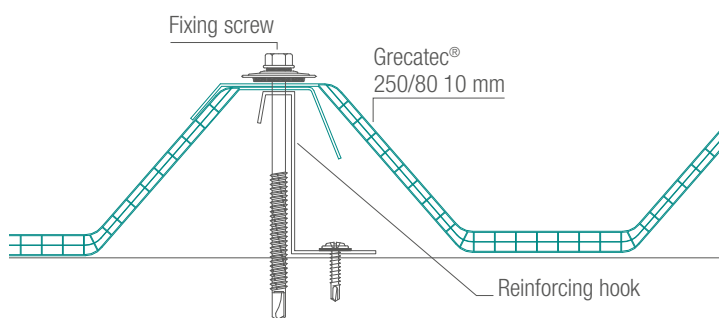
Detail for fixing and overlapping with Greccatec® 250/80 10 mm

Greccatec® 250/80 accessories

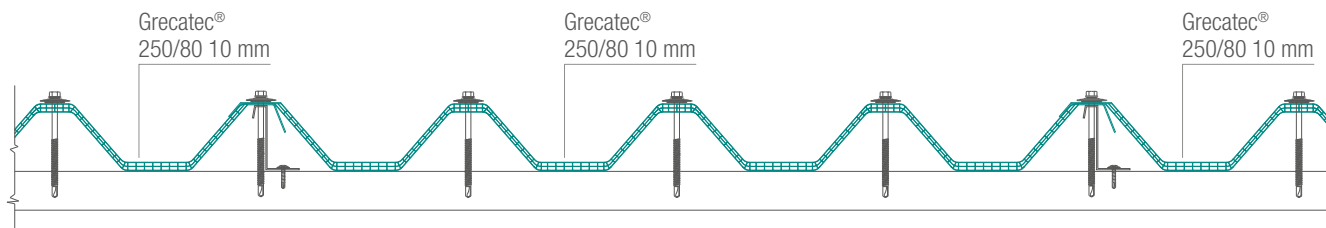
<p>Ridge</p>	<p>Upper and lower PE spacer</p>	<p>Reinforcing hook</p>	<p>Long / short fixing screws for high / low ridges</p>

Installation options

Flat continuous installation



Detail for fixing and overlapping with Grecatec® 250/80 10 mm

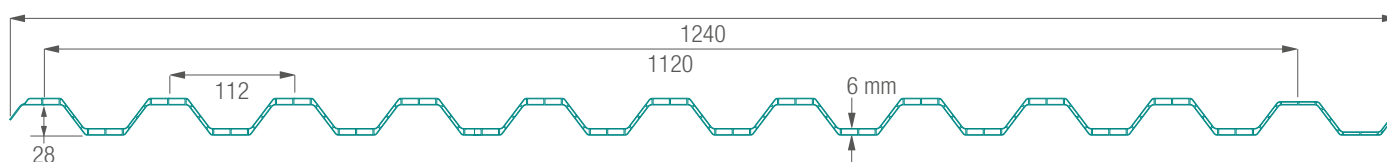
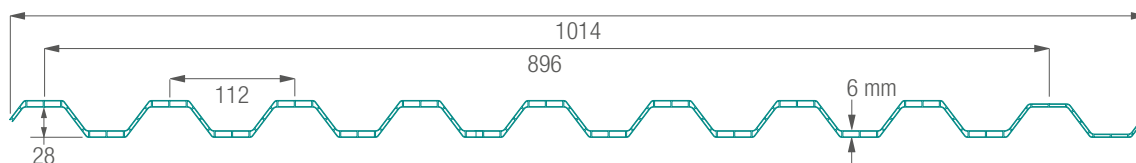


Greccatec® 112/28

6 mm



Greccatec® 112/28 6 mm is a corrugated multiwall panel designed for use in combination with sandwich panels and corrugated metal profiles, where it is necessary to create a single or continuous transparent roof. It can be used in new builds and / or restructured roofing, installing the panels from the ridge to the gutter or in the centre of the slope thanks to the perfect match on all 4 sides (only with metal corrugated sheets with the same shape).



Greccatec® 112/28 6 mm technical data

Thickness	6 mm		
Walls nr.	2		
Trapez pitch	112 mm		
Height	28 mm		
Width	9 trapez: 1014 mm (usable width 896 mm) 11 trapez: 1240 mm (usable width 1120 mm)		
Length	Upon request (maximum recommended length 6 m)		
Bending radius (thermobending)	3500 mm (only 1014 mm width) / 6000 mm (only 1014 mm width)		
Thermal transmittance	3,5 W/m² K		
Colours		LT	Value G
	Clear (8005)	80%	-
	Opal (8121)	43%	-
UV protection	Coextruded on the external side		
Warranty	10-years warranty against hail damage, yellowing, loss of light transmission		
Service temperature	-40°C / +120°C		
Thermal expansion coefficient	0,065 mm/m°C (6,5 x 10 ⁻⁵ /k)		
Fire certification	EUROCLASS B s1 d0		

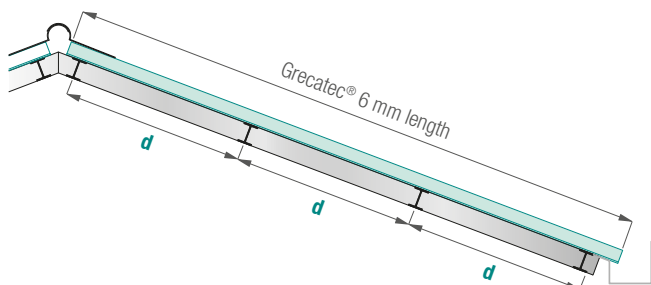
FLAT ROOF SPECIFICATIONS

Construction of a flat translucent roof and / or skylight consisting of:

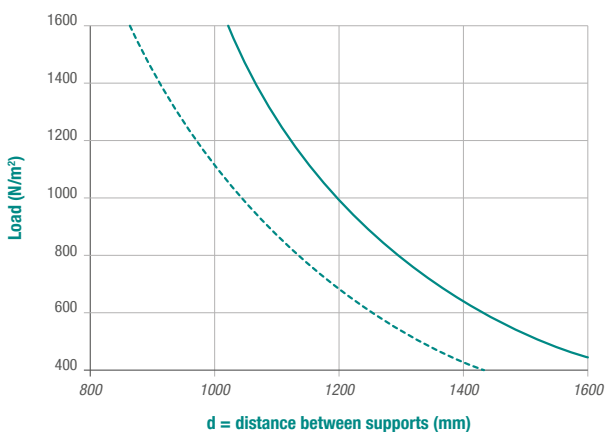
- Greccatec® 112/28 6 mm multiwall polycarbonate panel, co-extruded UV-protection on the external side, 2 walls structure, 6 mm thickness, trapez height 28 mm, thermal transmittance 3,5 W/m² K, clear or opal colours, thermowelded ends; dimensions: useable width 896 mm or 1120 mm, length upon request; 10-year warranty.



Greccatec® 112/28 6 mm load charts



Load charts for FLAT application



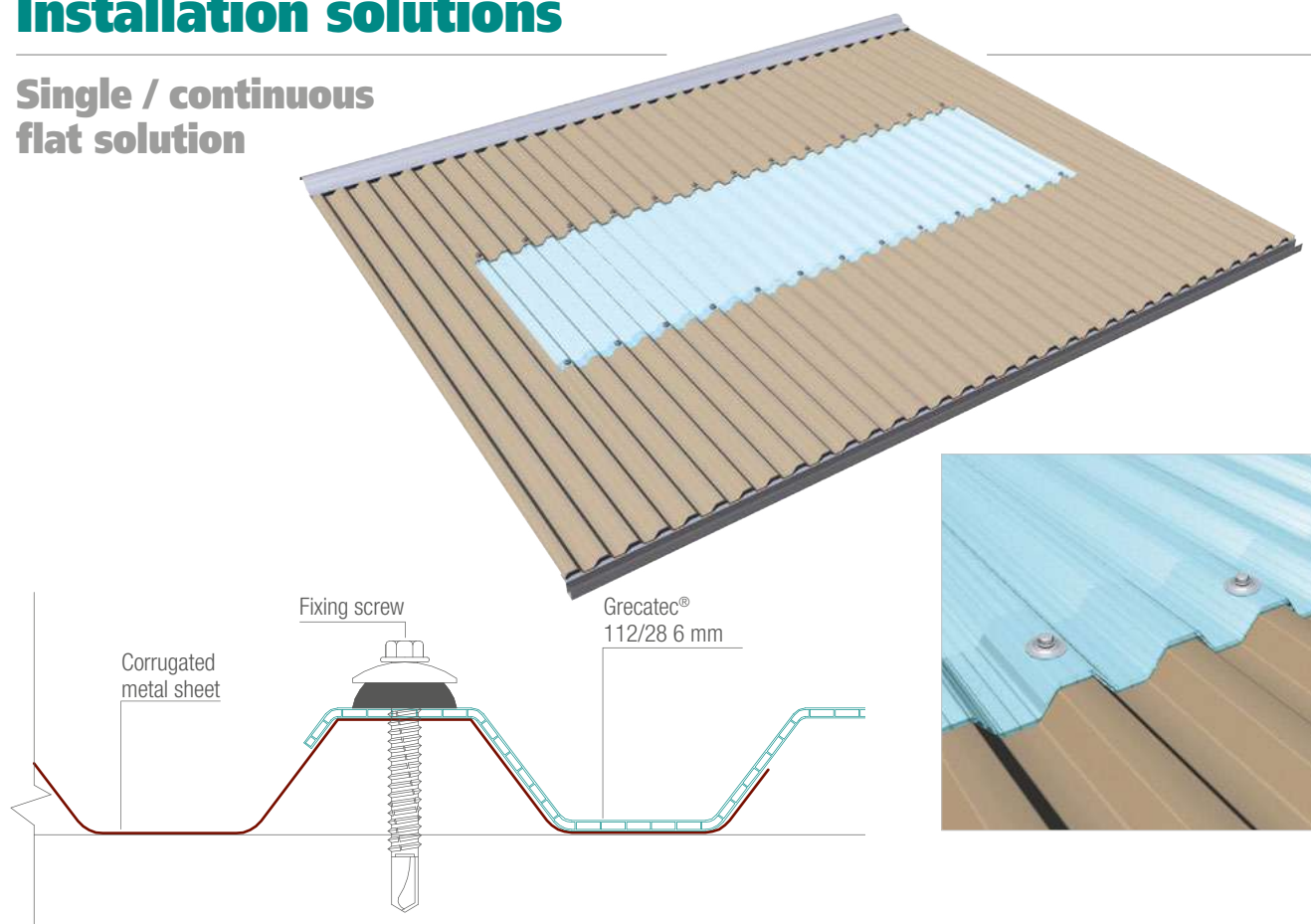
Uniform distributed load on 2 supports -----

Uniform distributed load on 3 or more supports —————

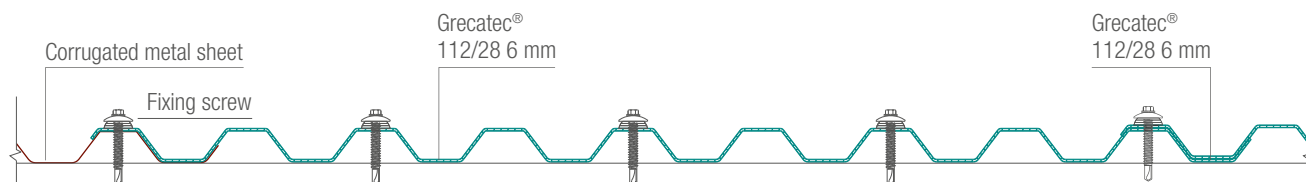
NOTE: minimum recommended slope 5%.

Installation solutions

Single / continuous flat solution



Detail of Grecatec® 112/28 6 mm fixing and side overlap



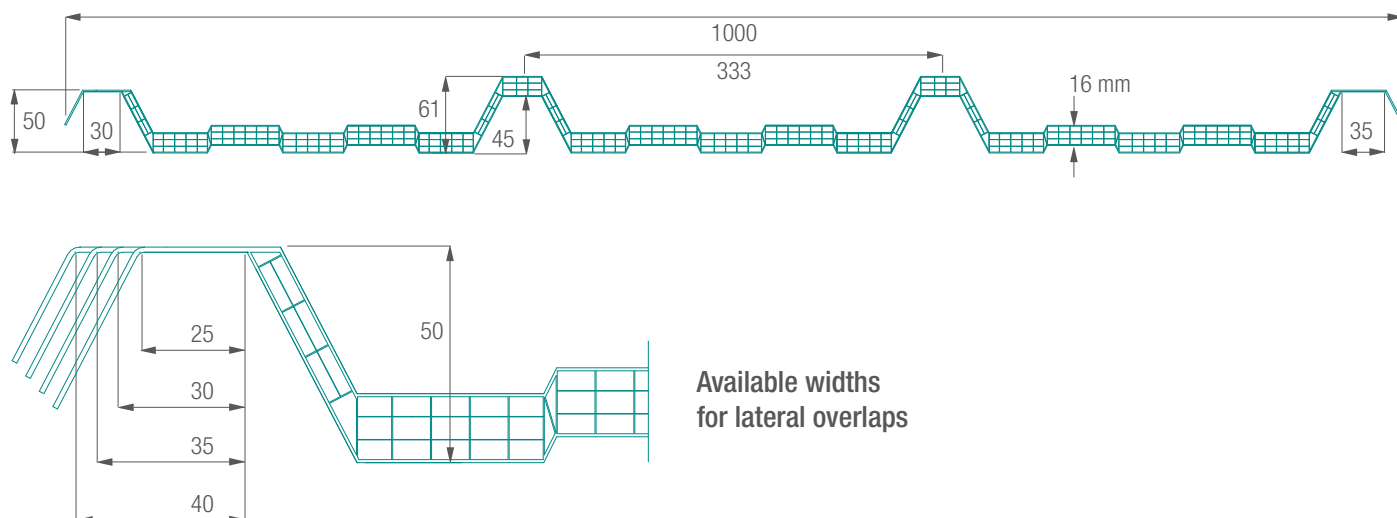
Accessories



Greccatec® 333/45 16 mm



Greccatec® 333/45 16 mm is a corrugated multiwall panel, designed to be used for roofs and vertical walls in industrial buildings. It is used both in continuous flat roofing and single flat skylights in combination with sandwich panels and corrugated metal profiles. The panel can match various design requirements thanks to the corrugated 3-wall section which gives it a high load resistance, and the possibility to vary the width of the lateral overlapping wings (upon request). The shape of the overlaps allows side coupling with almost any insulated panel, keeping the fixing distance to 1 m between the panels.



Greccatec® 333/45 16 mm technical data

Thickness	16 mm		
Walls nr.	4		
Trapez pitch	333 mm		
Height	45 mm		
Width	1000 mm		
Length	Upon request (maximum recommended length 6 m)		
Thermal transmittance	2,0 W/m ² K		
Colours		LT	G value
	Clear (8005)	67%	-
	Opal (8121)	-	-
UV protection	Coextruded on the external side		
Warranty	10-year warranty against hail damage, yellowing, loss of light transmission		
Service temperature	-40°C / +120°C		
Thermal expansion coefficient	0,065 mm/m°C (6,5 x 10 ⁻⁵ /k)		
Fire certification	-		

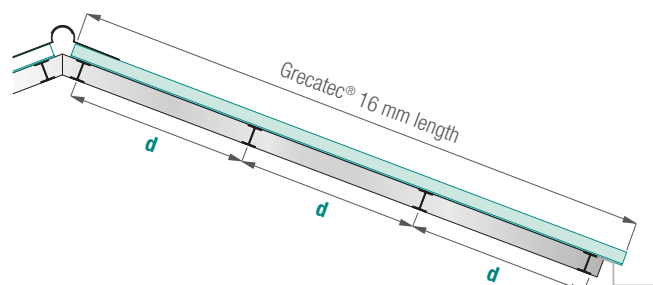
FLAT ROOF SPECIFICATIONS

Construction of a flat translucent roof and / or skylight consisting of:

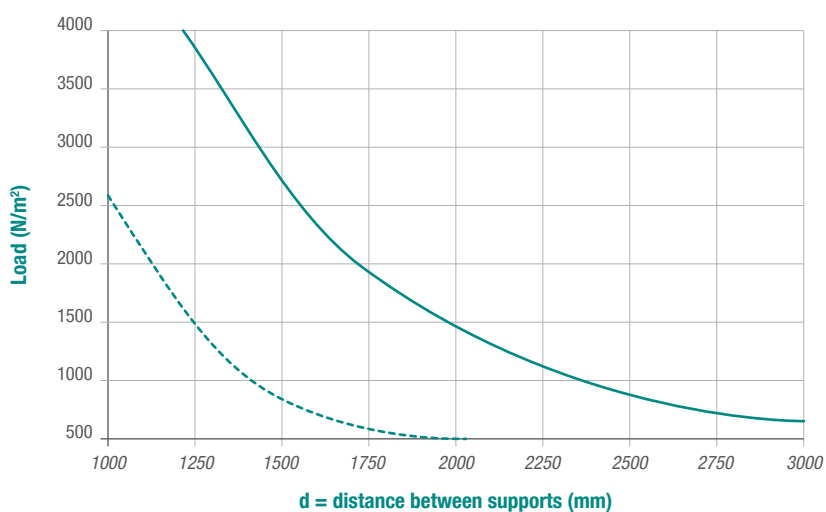
- **Grecatec® 333/45 16 mm** multiwall polycarbonate panel, co-extruded UV-protection on the external side, 3 walls structure, 16 mm thickness, trapez height 45 mm, thermal transmittance $2,0 \text{ W/m}^2 \text{ K}$, clear or opal colours, thermowelded ends; dimensions: useable width 1000 mm, length upon request; 10-year warranty.
- PE spacer.



Grecatec® 333/45 16 mm load charts



Load chart with 3 or more supports for FLAT solution

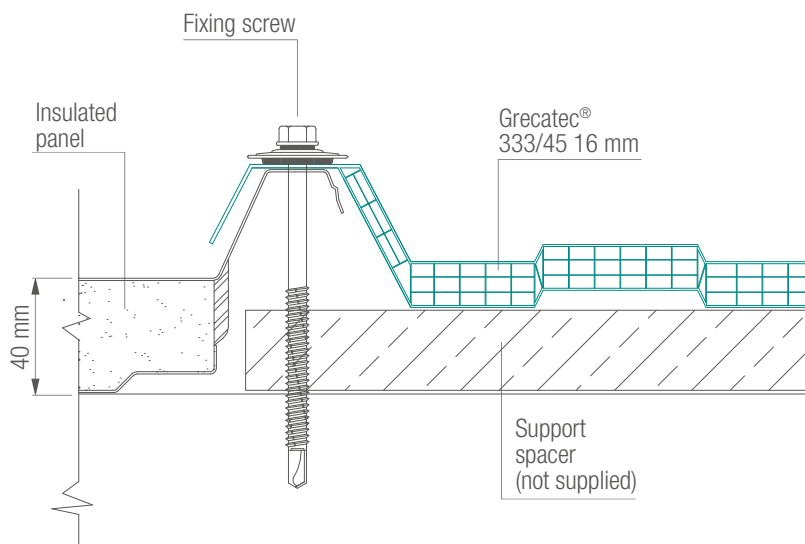


Continuous application -----
Skylight —————

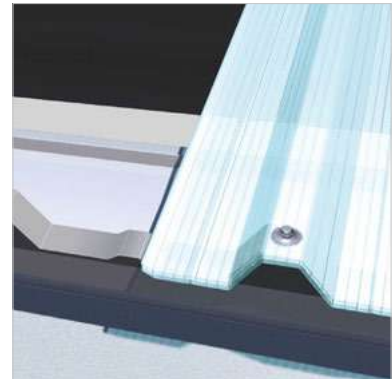
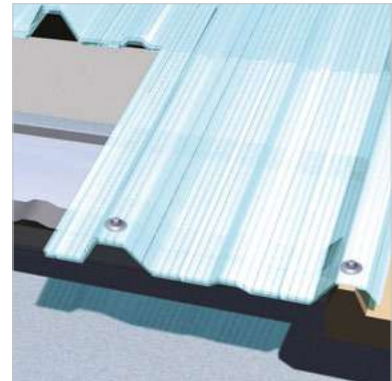
NOTE: minimum recommended slope 5%.

Installation solutions

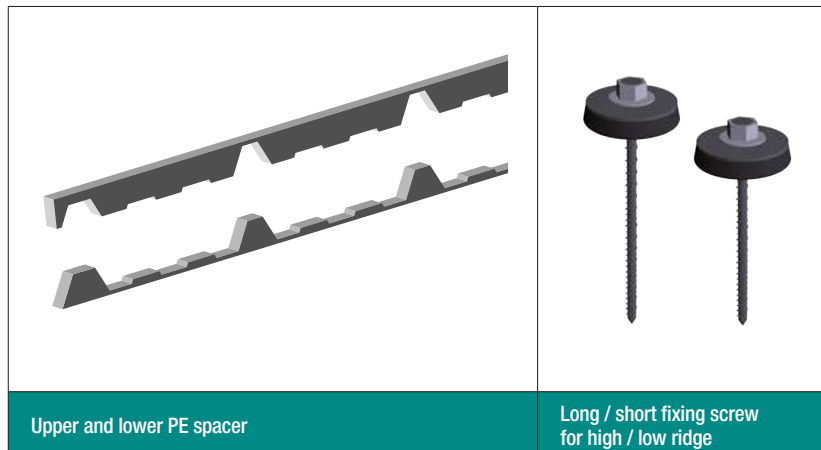
Single / continuous flat solution



Detail of Greccatec® 333/45 16 mm fixing and side overlap



Greccatec® 333/45 accessories



GrecaTec® 18/76 2 mm



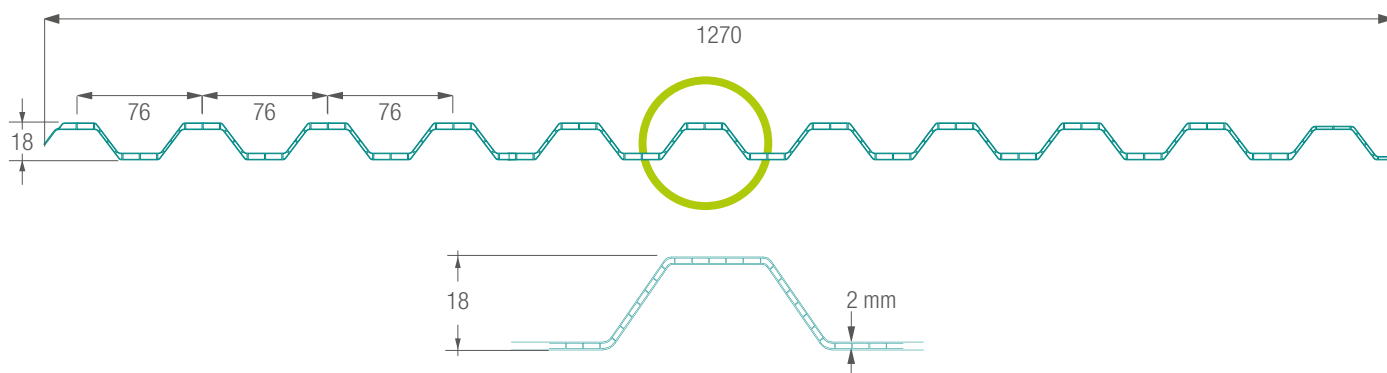
Corrugated **GrecaTec® 18/76 2 mm** is a sheet manufactured by extrusion of polycarbonate pellets, protected from ultraviolet rays by coextrusion of UV absorbers, which guarantee resistance to aging while maintaining all its characteristics over time.

GrecaTec® 18/76 2 mm is a product whose structure has a high rigidity.



Cellular Polycarbonate

Thickness = 2,0 mm / Profile: Termogreca OGR/18-76/1270



Technical properties		
Physical properties	Value	Unity
Thickness	2	mm
Weight (profiling)	1,15	Kg/m ²
Sheet width	1270	mm
Transmission to light (transparent)	80	%
Thermal properties		
Coefficient of linear thermal expansion	0,065	mm/m °C
Thermal conductivity	0,17	W/m °C
Thermal insulation	4,7	W/m ² °K
Possible expansion due to heat and humidity	3	°C
Maximum use temperature without load	120	°C
Reaction to fire		
Reaction to fire (EN 13501-1)	Bs1d0	-
Minimum radius of curvature in cold	2,9	M

Admissible load	
Distance between supports	Load (daN/m ²)
1.50	85
2.00	61
2.50	40

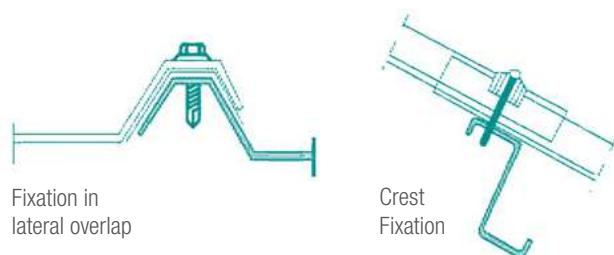




Recommended installation

Fixation system

Fixation system The fastening system must allow the free expansion of the sheet, therefore it is not advisable to use rigid fixings or through screws.



Structure

The sheets require a transverse support structure, which can be of any nature or geometry.

In the modulation the maximum dimensions of the sheet must be respected according to the profile and the loads to be supported.

Dilation of the sheets

The coefficient of thermal expansion of Polycarbonate is significantly higher than that of structures and other plastic products, therefore, it is essential to provide systems that allow the free expansion of the sheets. It is necessary to make drills with a diameter 3 mm greater than the screw.

Long length sheets

Long sheets (over 7 meters) accumulate longitudinal dilatations of high absolute value, so they should be avoided whenever possible.

If larger lights are needed, transverse overlaps of 150 to 250 mm are recommended depending on the slope of the roof.

Layout of the sheets

In the sheets, the face with UV protection that must be placed outdoors is indicated. For sandwich covers, it is recommended to install the white diffuser sheet on the outside and the colorless on the bottom.

Fixation of sheets

The polycarbonate profiles can be drilled using standard drills and drills bits. They must be firmly attached to avoid vibrations; taking special care when drilling at a right angle. The holes must always be made at a minimum distance of 50 mm from the edges of the sheet.

The washers must be of a sufficient diameter so that the clamping force can be distributed and keep the flat sheet for a good seal. Only soft washers of EPDM, Neoprene or XLPE can be used compatible with polycarbonate. Never use PVC washers. Never tighten too much, the fixture must guarantee tightness but do not force the material or prevent its free expansion.

Sealed

When it is necessary to make a seal, always use neutral silicone. Under no circumstances can polyurethane foam be used.

Sealing cells

It is essential to cover the cells to prevent the entry of dust inside the sheet. It is recommended if there is no heat sealing, the placement of aluminum tape at the ends: smooth at the top and porous at the bottom to allow the condensation water to escape.

Overlap

The longitudinal overlap is made in the opposite direction to wind and rain.

Security

Greccattec® 18/76 2 mm are not passable.





Distributor



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