

Product description

Greccatec® 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 flat skylights (flat and curved) in combination with sandwich panels and corrugated metal profiles.

Greccatec® is supplied with thermowelded ends to reduce the condensation and the accumulation of dirt on the inside of the structure.

Sector

Industrial / Commercial

Application

Discontinuous translucent flat roofs (ridge-to-gutter)

Continuous translucent curve roofs with self-supporting structure

Discontinuous translucent curved roofs

Continuous translucent flat roofs with load structure

Advantage

High thermal insulation

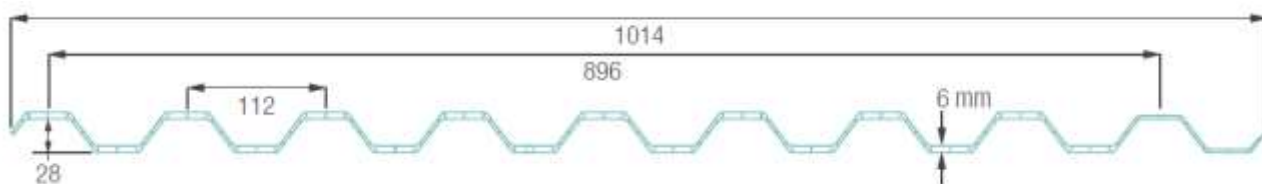
Excellent impact resistance

Good light transmission

Good coupling to insulating panels

Profile:

PROFILE: OG5/28-112/1014 - 6 mm



Technical characteristics

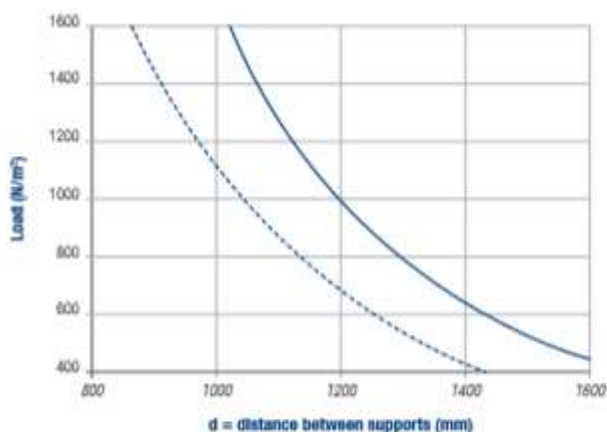
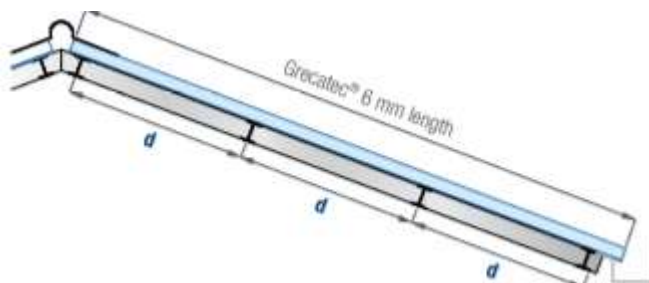
Properties	Value
Thickness	6 mm
Structure	3 walls
Useful width	896 mm
Total width	1.014 mm
Length	Maximum suggested 6 m
Bending radius (thermobending)	3.500 mm / 6.000 mm
Light transmission	Clear: 80 % White opal: 43 %
Thermal expansion coefficient	$6,5 \times 10^{-5} \text{ K}^{-1}$ (0,065 mm/m°C)
Thermal transmittance (U)	3,5 W/m² K
Service temperature	-40°C a +120°C
Fire certification	BS1d0
UV Protection	External side
Closing of heads	Thermowelding

Certificates

- Reaction to fire certificate according to EN 13501-1. Clasification obtained: BS1d0
- 10 years limited warranty

Admissible load:

- **Flat roof:** Load chart with 3 or more supports for FLAT solution.

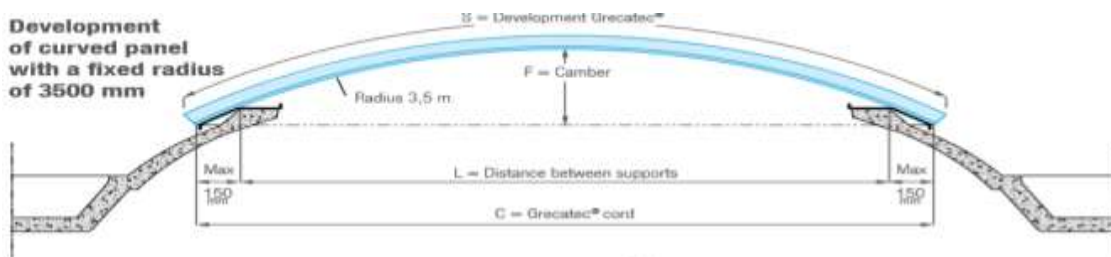


Uniform distributed load
on 2 supports

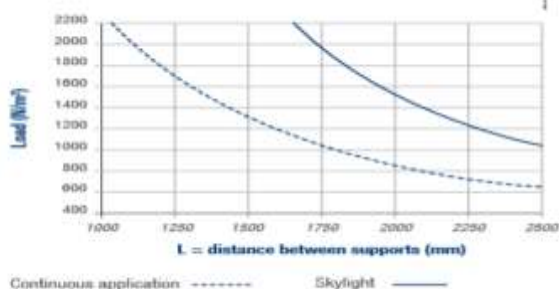
Uniform distributed load ———
on 3 or more supports

NOTE: minimum recommended slope 5%.

- **Curved roof.** Load chart for curved panel with a fixed radius of 3,5 m. For load values to the 6,0 m. radius, please contact our offices.



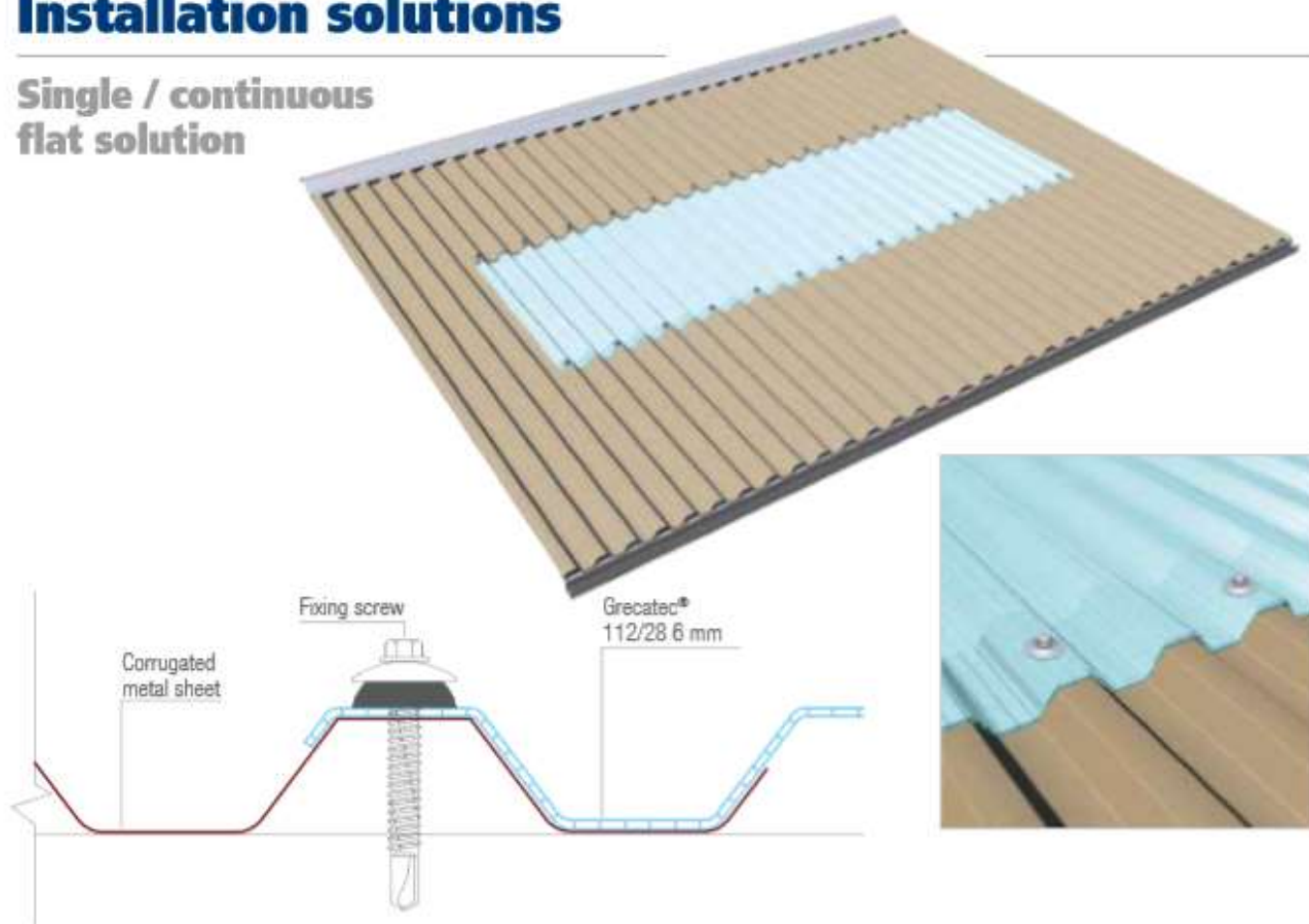
Development table with fixed radius of 3500 mm						
Cord (C)	3530	2950	2400	2100	1800	1510
Development (S)	3700	3050	2440	2130	1830	1520
Camber (F)	480	325	210	160	120	80
Central angle (α°)	60°	50°	40°	35°	30°	25°
Measurements expressed in mm. Data are purely indicative.						



Recommended installation:

Installation solutions

Single / continuous flat solution

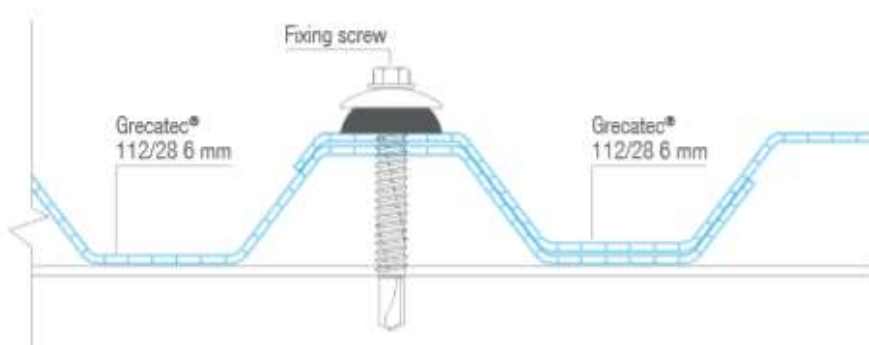
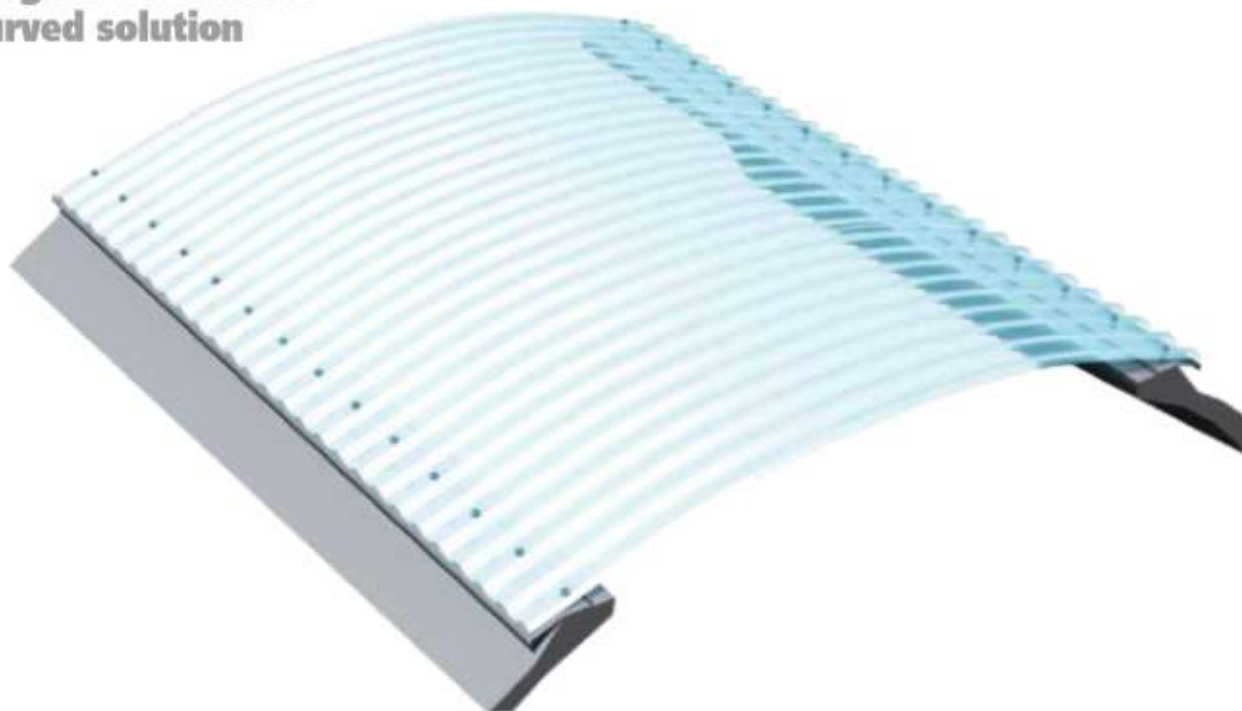


Detail of Grecatec® 112/28 6 mm fixing and side overlap



Installation solutions

Single / continuous curved solution



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



Storage and handling



KEEP SHEETS OUT OF THE RAIN

Sheets must be stored out of the rain to stop condensation forming inside the cells.



KEEP SHEETS OUT OF THE SUN

In the event goods need to be stored while still in their packaging, do not leave the pallet in direct sunlight as this could generate high temperatures inside the packaging and make it difficult to remove the protective film on the sheets later.



SHEETS HANDLING

Sheets must be handled with the utmost care to avoid damaging them with impacts or scratches, which would compromise the material's performance.



SHEET STORAGE

You can stack sheets up to three packs or pallets high. To stop the product coming into direct contact with objects liable to cause damage, you should place spacers or planks between the packs or pallets and any such objects.



USING LIFT TRUCKS

For safer and easier handling, you should use lift trucks with forks that can be spaced at least 2 m. apart and are at least as long as the pack or pallet is wide. Exercise the utmost caution, handling the load carefully and avoiding sudden movements so as not to cause the material to rock or bump up and down excessively.



HANDLING BY HAND

If individual sheets are to be handled by hand, you will need at least two people to carry the sheet on its side. When picking the sheet up off the pack or pallet, you must lift it off cleanly so that it does not scrape against the one underneath and turn it to lie on its side next to the pack.

Installation instructions



ALLOW FOR THE POLYCARBONATE'S THERMAL EXPANSION

Sheets must be fixed so that they are retained by at least one whole cell length on each side; an allowance for the material's thermal expansion should be added to this measurement.



REMOVING PROTECTIVE FILM AFTER INSTALLATION

Sheets come with a protective film on both sides. There is a printed film on one side of the sheet to show you that this is the side to face out. Remove the film as soon as the sheets have been installed.



SHEET SEALING

Where sealing is necessary, only use silicone, sealants, gaskets and paints that are comparable with polycarbonate.



SHEET TAPING

Seal the ends of the sheets by applying adhesive aluminium tape to seal the cells and stop dirt getting inside the chambers.



SHEET CUTTING

Sheets can be cut using common cutting instruments, such as vertical, horizontal or circular cutters, or reciprocating saws, provided they are fine toothed.



SHEET DRILLING

Sheets can be drilled, provided suitable bits are used. Nonetheless, we do not recommend piercing the sheet with through fixings unless they are suitable slotted to allow for thermal expansion.

Maintenance



SHEET CLEANING

To care for sheeting, we recommend cleaning at least twice a year with water and non-alkaline detergents. Do not use abrasive equipment or solvents, which could damage the surface of the sheeting.



DO NOT WALK ON TOP OF SHEETS

Do not walk directly on top of sheets during installation. We recommend placing a suitable supporting element on top to distribute weight evenly.



TECHNICAL DATA

Grecatec 6 mm
Profile OG5 (28-112)
Translucent sheet

Code: TDS-D-06-OG5-1014

Inspection: 01

Valid from: 20/07/18

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T: (+34) 937 290 090 – T-SAC : (+34) 902 194 881
E-mail: info@stabiliteuropa.com
www.stabiliteuropa.com

