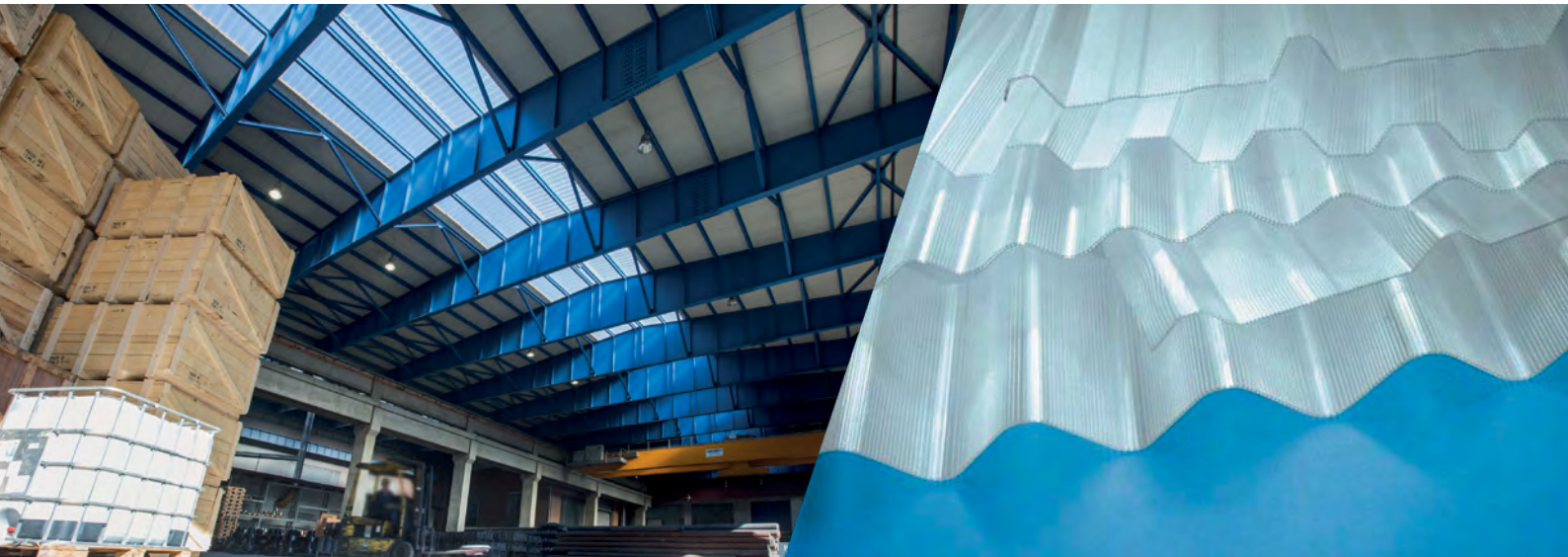


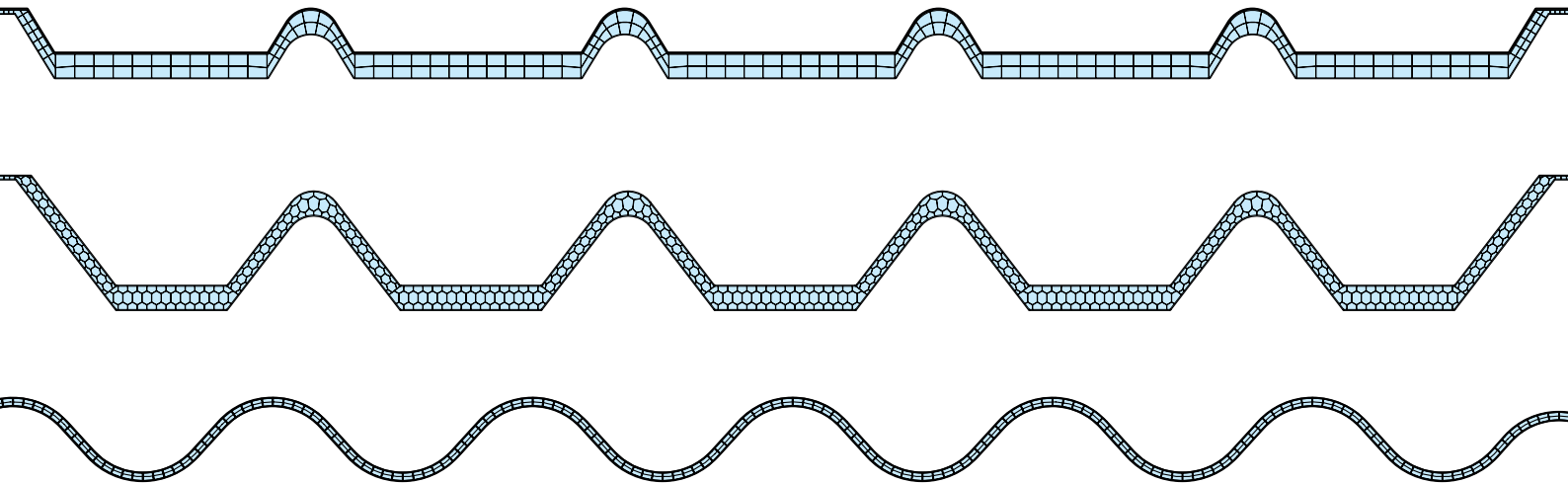


**Rockwell**  
GLAZING SOLUTIONS



Corrugated

Multiwall Polycarbonate



**Rockwell Sheet Sales Ltd**

Rockwell House  
Birmingham Road  
Millisons Wood  
Coventry, CV5 9AZ

Tel: 01676 523386  
Fax: 01676 523630  
Email: [info@rockwellsheet.com](mailto:info@rockwellsheet.com)  
[www.rockwellsheet.com](http://www.rockwellsheet.com)





Corrugated

Multiwall Polycarbonate



# Simple / Safe / Stylish

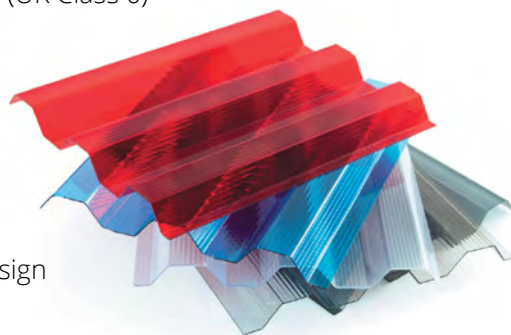
Rockwell offers a range of multiwall corrugated polycarbonate sheets in a variety of thicknesses, finishes and profiles.

Sheets are supplied manufactured to length – with certain profiles also available pre-curved to 3500mm or 6000mm radii.



## Benefits:

- Provides areas of safe shading - filters 99% of harmful UV rays
- Cellular sheet structure reduces condensation associated with single skin roof structures
- Offers increased thermal insulation – as low as 1.8W/m2K
- Self-extinguishing with fire rating Euroclass - EN13501-1 2006 B-s1, d0 (UK Class 0)
- Working temperature range -40oC to +130oC
- Weight saving over GRP rooflight sheets for easier handling
- Durable multiwall polycarbonate structure improves profile rigidity
- Choice of diffusing clear and opal finishes supplied as standard
- Variety of translucent sheet colours also available subject to quantity
- Corrugated profiles can be successfully utilised for interior and set design
- Sheets manufactured to length and supplied with heat sealed ends
- Clear sheet transmits up to 84% of daylight, opal transmits up to 76%
- Produced to UNI EN ISO 9001:2008 quality standard with 10 year warranty
- Fully recyclable with minimal environmental impact



## GrecaPlus+ ..... Page 06

**GrecaPlus+** is a premier range of multiwall polycarbonate sheet profiles available in thicknesses from 8mm to 20mm. Also available in re-inforced, standard and curved sheet options -

**GrecaPlus+** can be utilised successfully with most metal and composite roofing panels available on the market today.

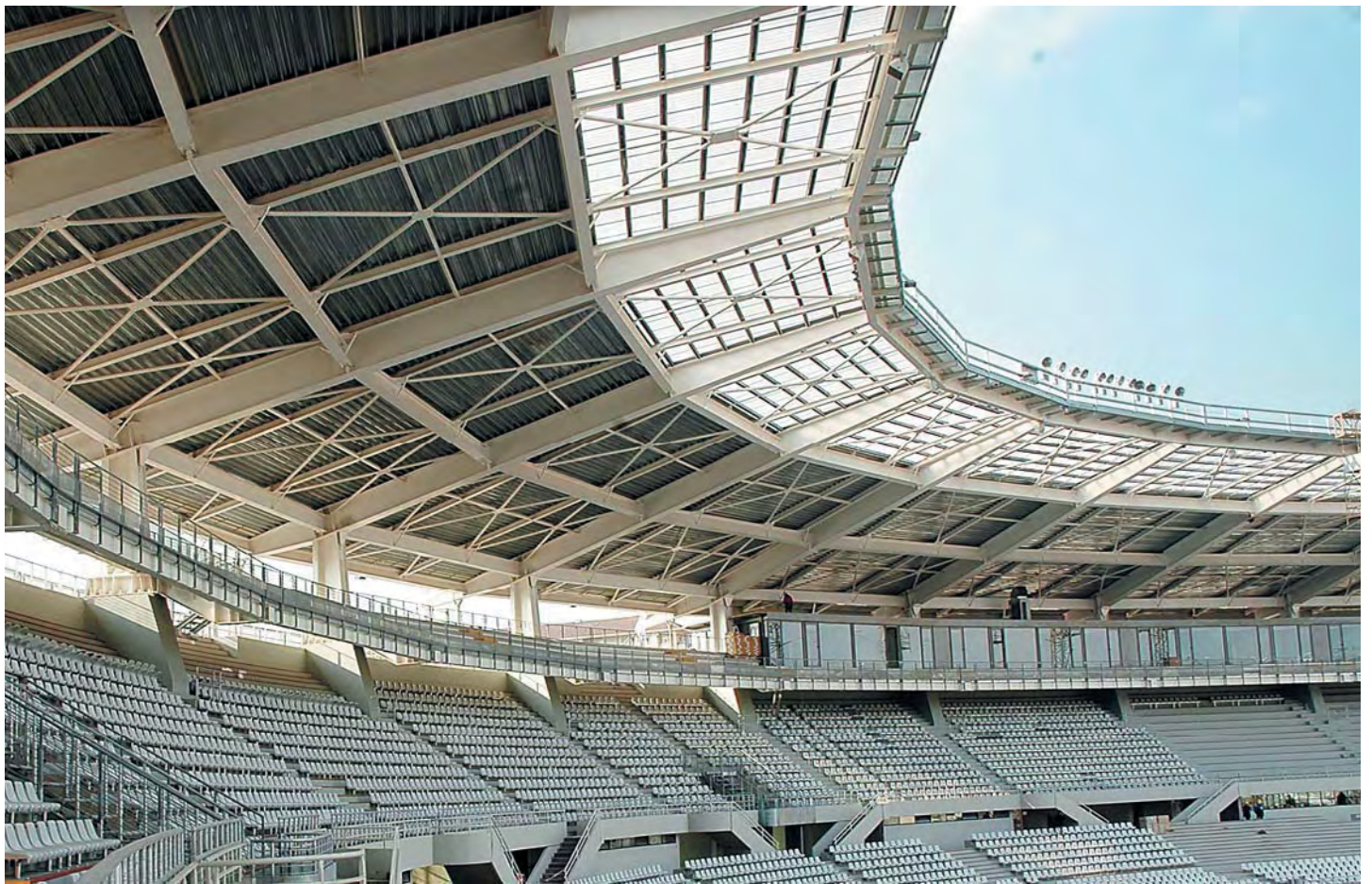
## OndaPlus+ ..... Page 10

**OndaPlus+** is a mid-range 177/51 profile, triplewall corrugated polycarbonate sheet available in 4mm and 6mm thicknesses. Available in both standard and curved sheet options, **OndaPlus+** can be utilised for both pitched and barrel rooflights, and vertical cladding.

## SmartPlus+ ..... Page 14

**SmartPlus+** is an economy range of 2.5mm thick twinwall corrugated polycarbonate profiled sheets suitable for a wide variety of translucent roofing and cladding applications.





Corrugated

Multiwall Polycarbonate





Corrugated

Multiwall Polycarbonate Interiors

# GrecaPlus+

UV protected corrugated multiwall polycarbonate sheet suitable for continuous flat and curved translucent rooflights. Can be installed independently or in conjunction with composite roofing panels and metal profiled corrugated sheets.

## Applications and strong points

**GrecaPlus+** is a 1000mm wide, corrugated polycarbonate sheet, available in 4 standard profiles of varying thickness. Sheets offer excellent light transmission and insulation values and feature either a triplewall or honeycomb internal structure.

Thanks to its ability to overlap in both side and length, **GrecaPlus+** can be utilised with the majority of composite panels or metal profiled corrugated sheet on the market. Designed for the construction of rooflights in both single and multiple sheet application, **GrecaPlus+** is also available pre curved to 3500 mm and 6000 mm radii.

**GrecaPlus+** offers high protection against UV rays, is resistant to accidental impacts, temperature changes and hail. It is also fire rated Euroclass EN13501-1: B s1 d0 (Equivalent to a UK Class 0).

## Technical specifications

Construction of flat and curved skylights and coverings with corrugated extruded multiwall polycarbonate sheets with triplewall or honeycomb structure.

- Heat sealed ends
- UV protected outer layer
- Choice of diffusing clear and opal finishes supplied as standard
- Variety of translucent sheet colours and bi-colours also available subject to quantity
- 1000 mm  $\pm$  5 modular width
- Corrugation pitch of 200mm and 250 mm
- Multiwall side waves for overlapping
- Euroclass fire rating EN13501-1: B s1 d0 (equivalent UK Class0)
- Manufactured to length

**GrecaPlus+** 5-Corrugation Flat & Curved 40/8, 40/10, 40/16mm and 74/12, 78/16 mm  
U = 2,70 - 2,50 - 1,99 and 2,30 - 1,99 W/m2K.

**GrecaPlus+** 6-Corrugation Flat & Curved 80/12, 86/16, 90/20mm and 44/16mm Reinforced  
U = 2,30 - 1,99 - 1,80 and 2,20 W/m2K.



**GrecaPlus+** 40/10 mm



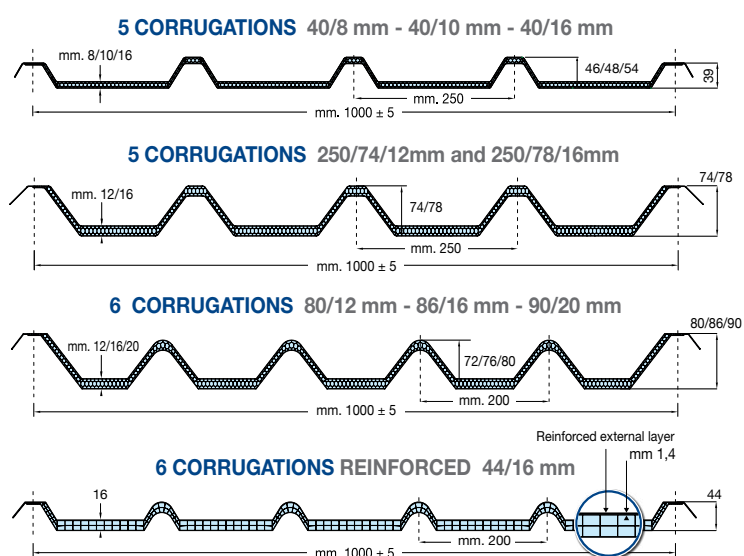
**GrecaPlus+** 250/74/12mm and 250/78/16mm



**GrecaPlus+** 86/16 mm



**GrecaPlus+** REINFORCED 44/16 mm

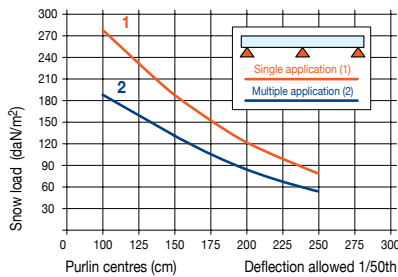




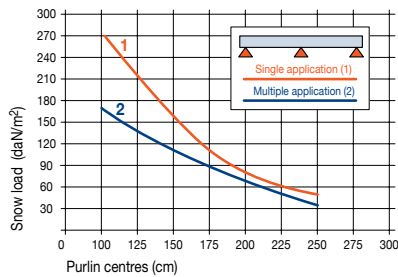
FEATURES	5-CORRUGATION					6-CORRUGATION			
Thickness	mm 8	mm 10	mm 16	mm 12	mm 16	mm 12	mm 16	mm 20	mm 16
Height of side wave	mm 40	mm 40	mm 40	mm 74	mm 78	mm 80	mm 86	mm 90	mm 44
Structure	Honeycomb					Honeycomb			Triplewall
Sheet width	mm 1000 ± 5								
Sheet length	upon request (max. length recommended is 7 mtr)								
Thermal insulation	U = 2,70	U = 2,50	U = 1,99	U = 2,30	U = 1,99	U = 2,30	U = 1,99	U = 1,80	U = 2,20
Temperature working range	- 40°C + 130° C								
Linear thermal expansion	6,7 x 10 <sup>-5</sup> mm/mm°C*								
Satinized clear colour	59% ± 2	58% ± 2	57% ± 2	58% ± 2	57% ± 2	58% ± 2	57% ± 2	52% ± 2	65% ± 2
Opal colour	41% ± 2	40% ± 2	37% ± 2	39% ± 2	37% ± 2	39% ± 2	37% ± 2	35% ± 2	41% ± 2

\* GENERAL DATA

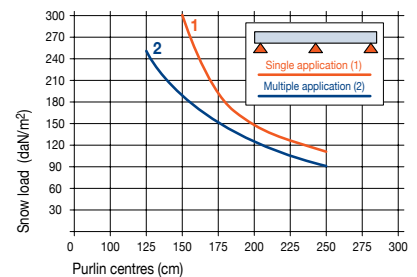
#### GRECAPLUS+ 40/8-10-16 (5-CORRUGATION) FLAT APPLICATION ON MORE SUPPORTS



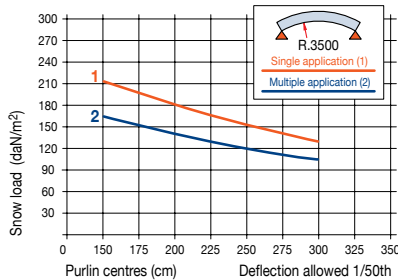
#### GRECAPLUS+ REINFORCED 44/16 (6-CORRUGATION) FLAT APPLICATION ON MORE SUPPORTS



#### GRECAPLUS+ 80/12, 86/16 & 90/20 (6-CORRUGATION) FLAT APPLICATION ON MORE SUPPORTS

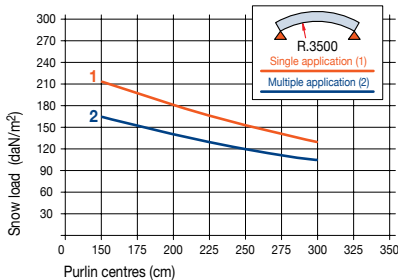


#### GRECAPLUS+ 40/8-10-16 (5-CORRUGATION) CURVED APPLICATION ON TWO SUPPORTS



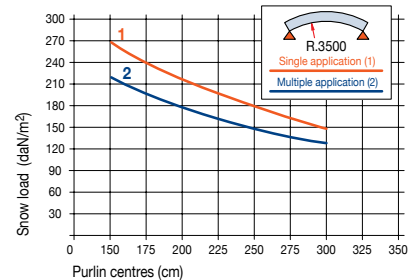
(2) Multiple sheet application with span > 2mtr:  
figures with square channel underneath.

#### GRECAPLUS+ REINFORCED 44/16 (6-CORRUGATION) CURVED APPLICATION ON TWO SUPPORTS



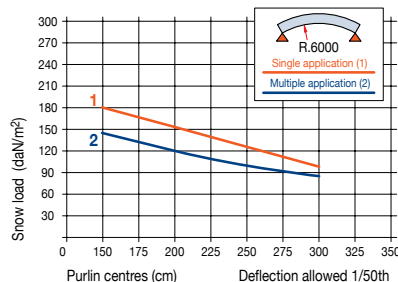
(2) Multiple sheet application with span > 2mtr:  
figures with square channel underneath.

#### GRECAPLUS+ 80/12, 86/16 & 90/20 (6-CORRUGATION) CURVED APPLICATION ON TWO SUPPORTS



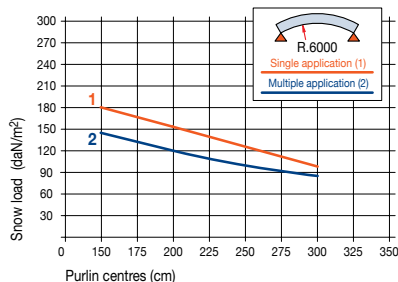
(2) Multiple sheet application with span > 3mtr:  
figures with high square channel underneath.

#### GRECAPLUS+ 40/8-10-16 (5-CORRUGATION) CURVED APPLICATION ON TWO SUPPORTS



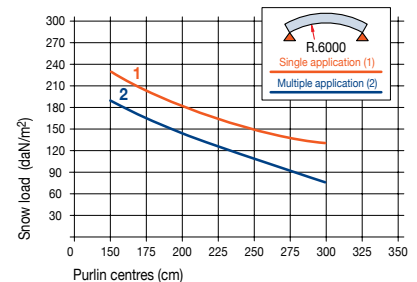
(2) Multiple sheet application with span > 2mtr:  
figures with square channel underneath.

#### GRECAPLUS+ REINFORCED 44/16 (6-CORRUGATION) CURVED APPLICATION ON TWO SUPPORTS

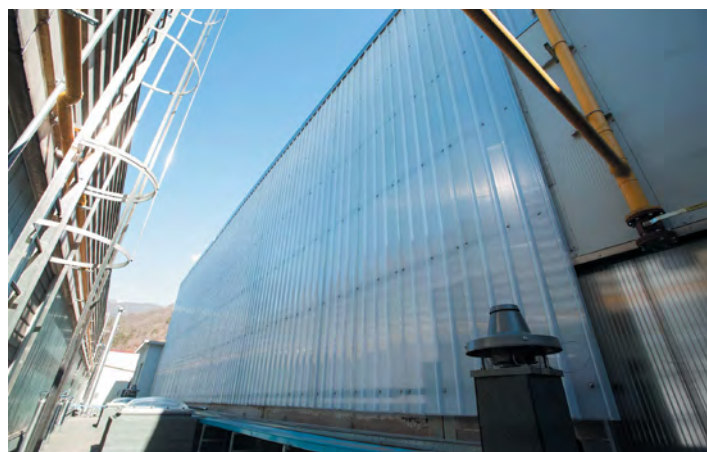
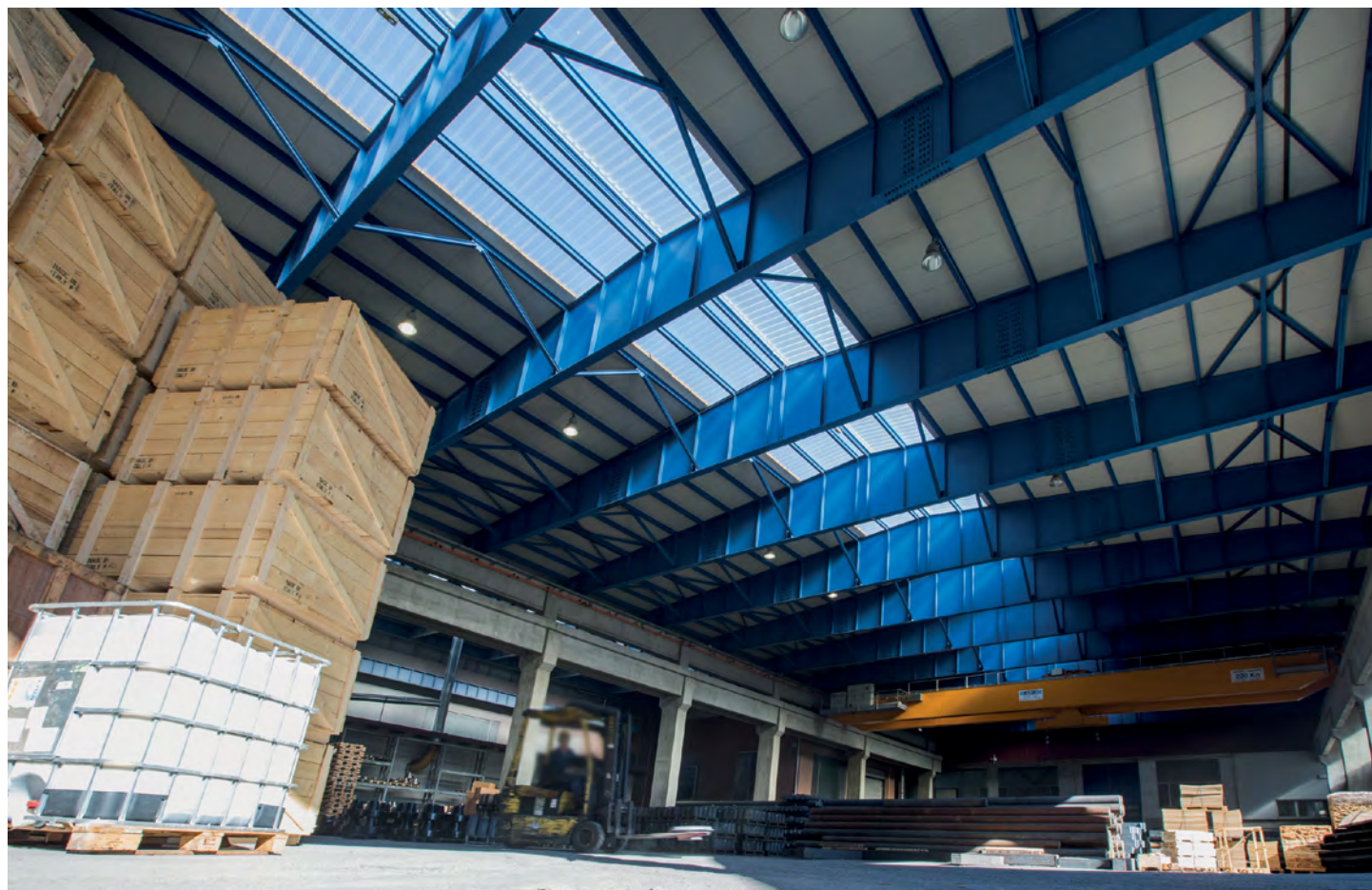


(2) Multiple sheet application with span > 2mtr:  
figures with square channel underneath.

#### GRECAPLUS+ 80/12, 86/16 & 90/20 (6-CORRUGATION) CURVED APPLICATION ON TWO SUPPORTS



(2) Multiple sheet application with span > 3mtr:  
figures with high square channel underneath.

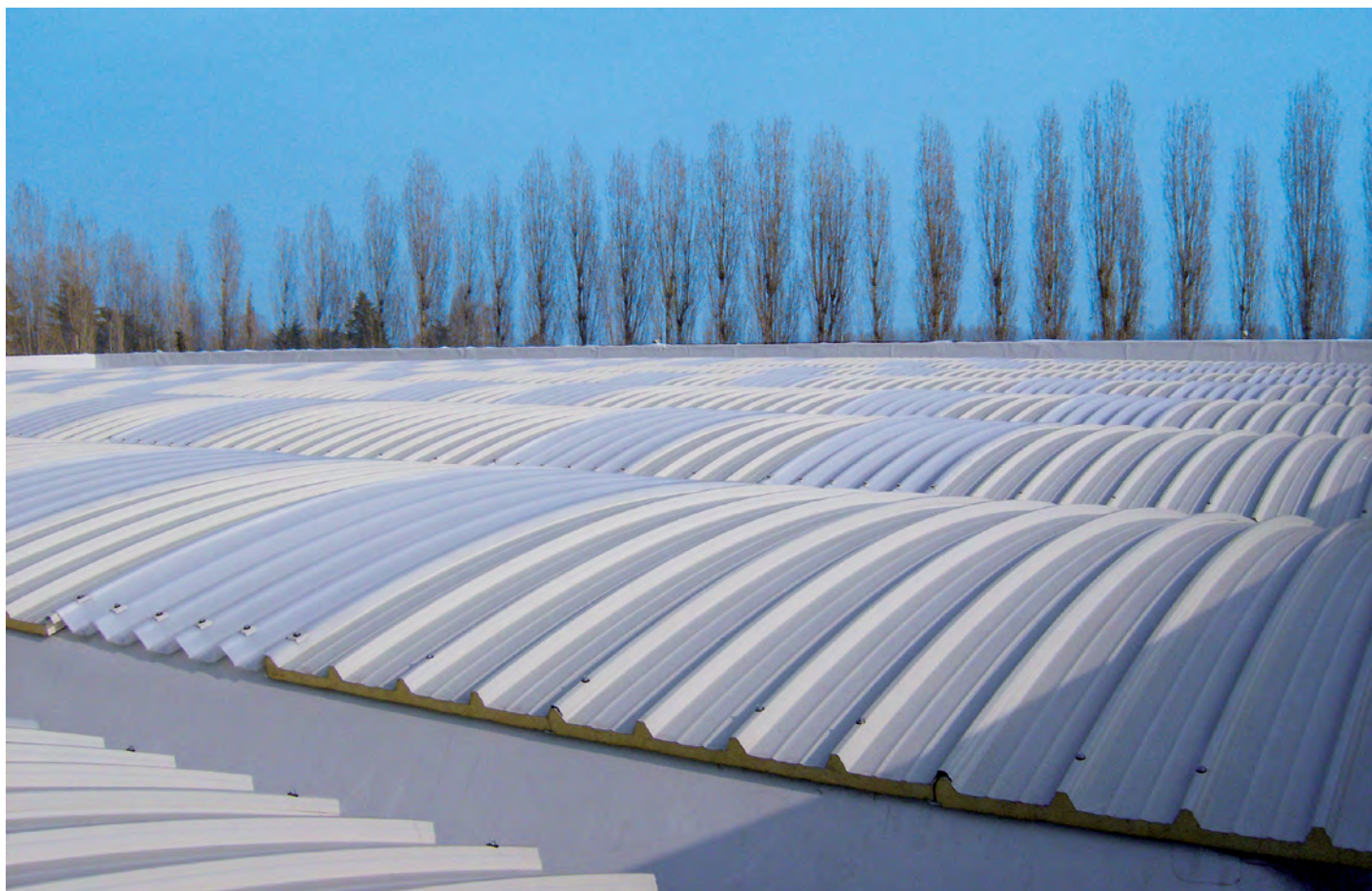


Corrugated

Multiwall Polycarbonate

GrecaPlus+





Corrugated

Multiwall Polycarbonate

Greca**Plus**+



# OndaPlus+

UV protected corrugated multiwall polycarbonate sheet suitable for continuous flat and curved translucent rooflights.

## Applications and strong points

**OndaPlus+** is a corrugated triplewall polycarbonate sheet, extruded in 4mm and 6mm thicknesses to a standard European profile (Euro 177/51), **OndaPlus+** can be supplied in a standard flat form or pre curved to a radius of 3500mm.

**OndaPlus+** is free from microcracks and tensioning and has excellent spanning and loading capabilities. It offers high light transmittance and a superior protection to UV rays. It has good resistance to accidental impacts, bad weather, temperature changes and to hail. It is self-extinguishing as per Euroclass fire rating EN13501-1: B s1 d0 (equivalent UK Class0), has good thermal insulating properties and is quick and easy to install.

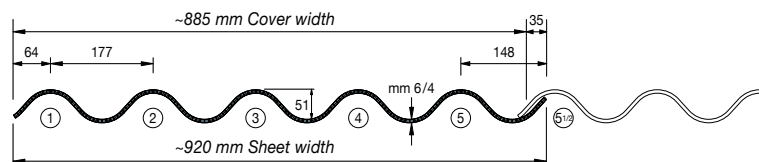
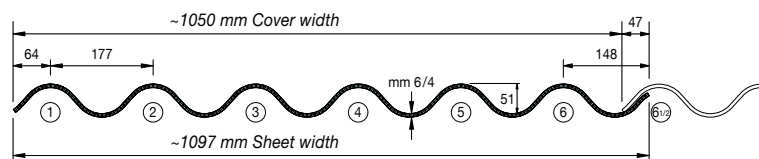
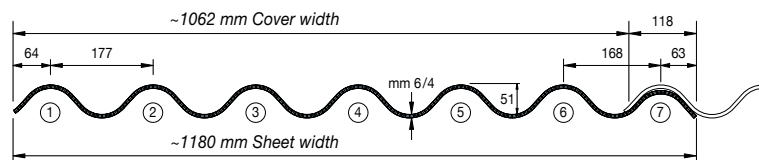
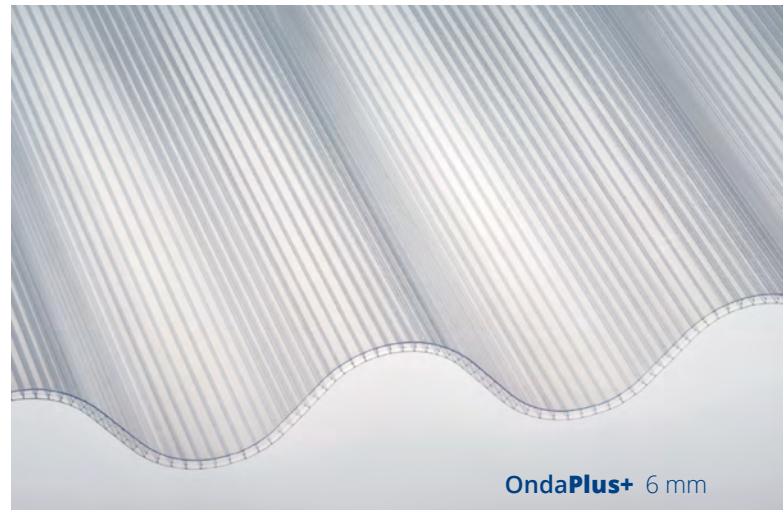
## Technical specifications

Construction of skylights and flat/curved coverings with extruded triplewall polycarbonate 4/6 mm thick corrugated sheets:

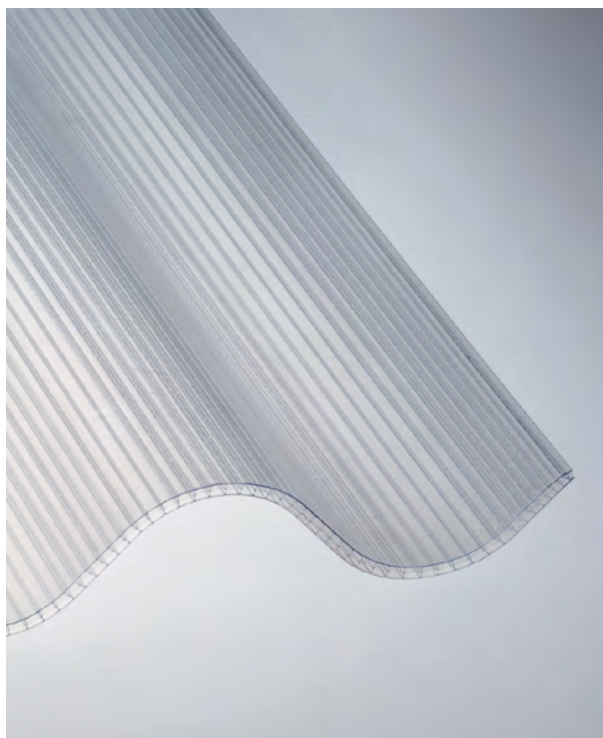
- Corrugation profile EURO 177/51mm
- Heat sealed ends
- Euroclass fire rating EN13501-1: B s1 d0 (equivalent UK Class0)
- UV protected outer layer
- Manufactured to length
- Choice of diffusing clear and opal finishes supplied as standard
- Variety of translucent sheet colours and bi-colours also available subject to quantity

**OndaPlus+** Flat and Curved R3500  
in thickness 4 mm  
U Value = 3,70 W/m2K

**OndaPlus+** Flat and Curved R3500  
in thickness 6 mm  
U Value = 3,30 W/m2K







## PRODUCTION FEATURES

Thickness	mm 4	mm 6
Structure	Triplewall	
Maximum width	mm 1180 ± 5 (cover width mm 1062)	
Sheet length	upon request (max. length recommended is 7mtr)	

## PHYSICAL-THERMAL FEATURES

Thermal insulation	U = 3,70	U = 3,30
Temperature working range	- 40°C + 130° C	
Linear thermal expansion	6,7 x 10 <sup>-5</sup> mm/mm°C*	

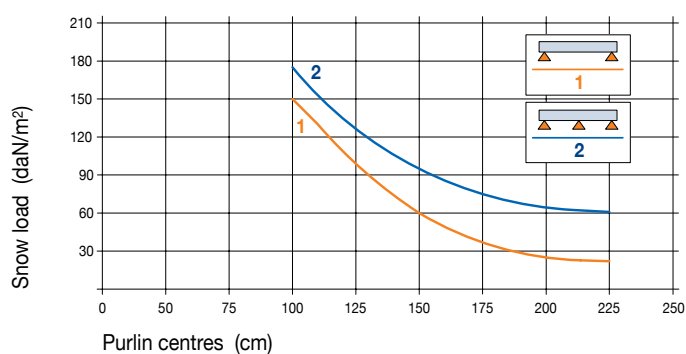
## LIGHT TRANSMISSION FEATURES

Satinized clear colour	80% ± 2	72% ± 2
Opal colour	68% ± 2	50% ± 2

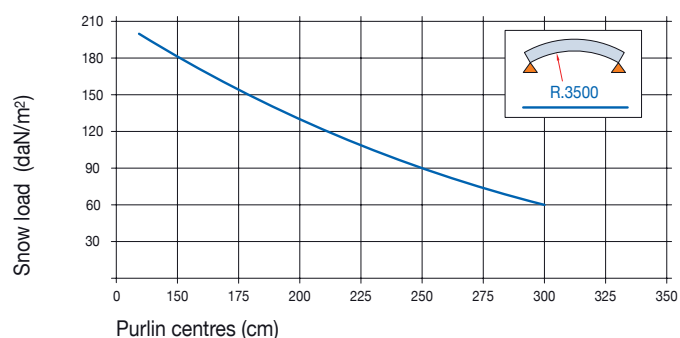
\* GENERAL DATA



## FLAT APPLICATION ON 2 OR MORE SUPPORTS

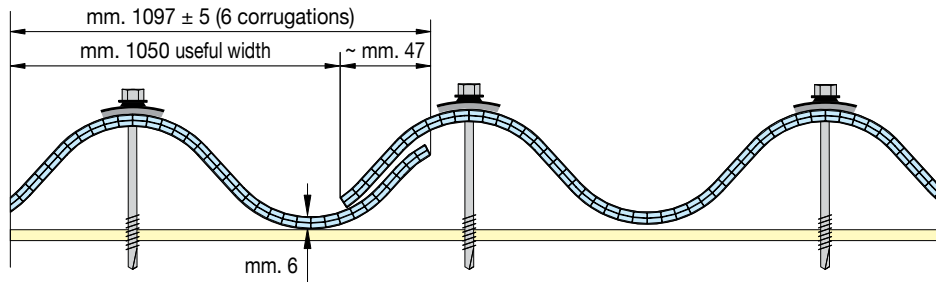


## CURVED R3500 APPLICATION

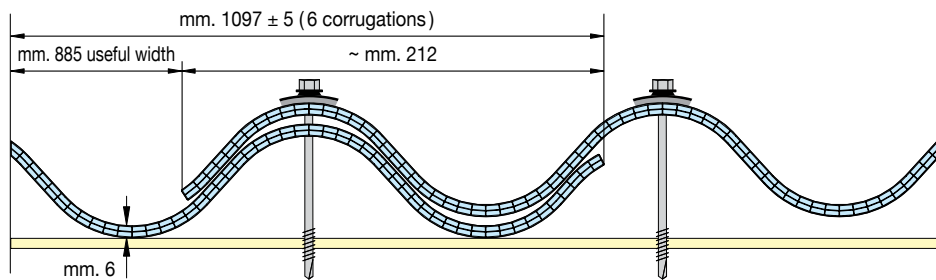




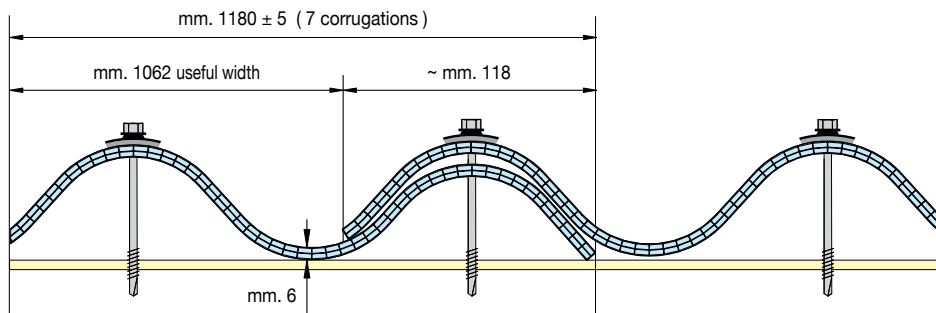
## STANDARD OVERLAP (6-CORRUGATION SHEET)



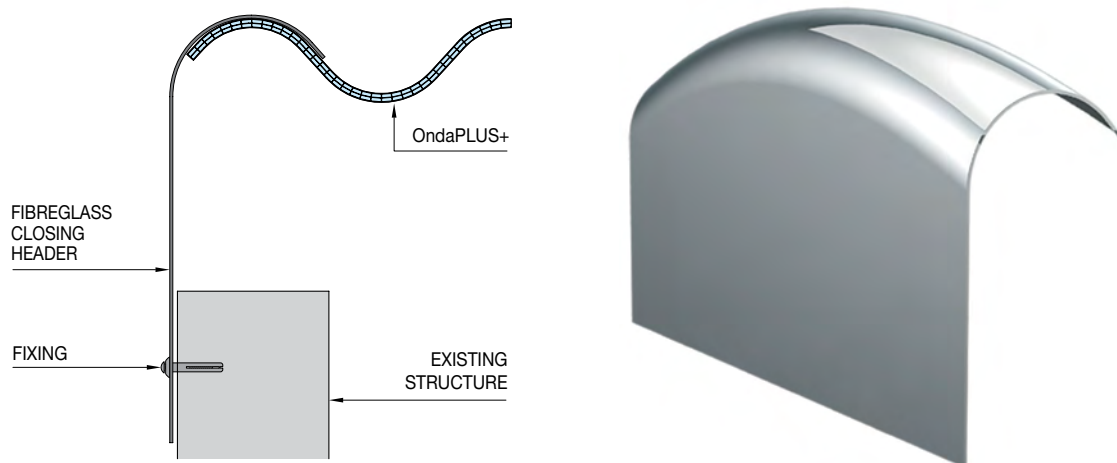
## OVERLAP FOR AREAS EXPOSED TO STRONG WINDS (6-CORRUGATION SHEET)



## FIXING ON HIGHER CORRUGATION (7-CORRUGATION SHEET)



## CURVED END DETAIL





Corrugated

Multiwall Polycarbonate

OndaPlus+



# SmartPlus+

2.5mm Corrugated UV protected multiwall polycarbonate sheet for translucent coverings and use with metal profiled sheets and roofing panels.

## Applications and strong points

**SmartPlus+** is a 2.5 mm thick multiwall polycarbonate sheet for roofing & cladding.

Available in a variety of corrugated profiles to match the most popular metal or composite panels available on the market.

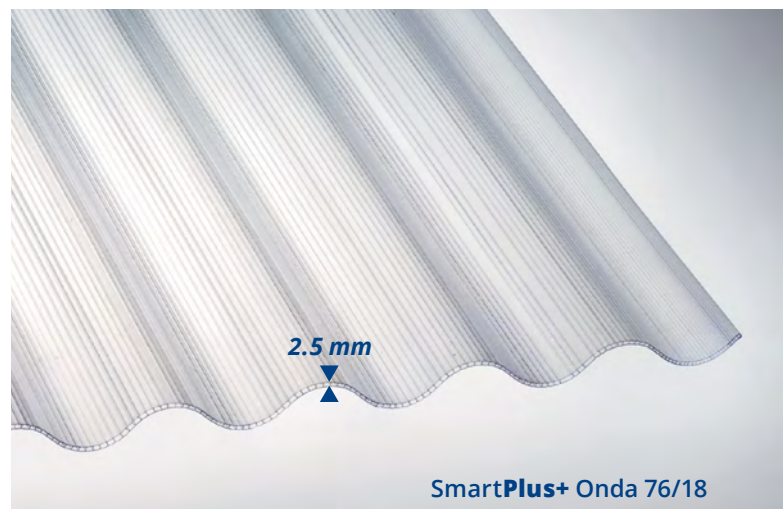
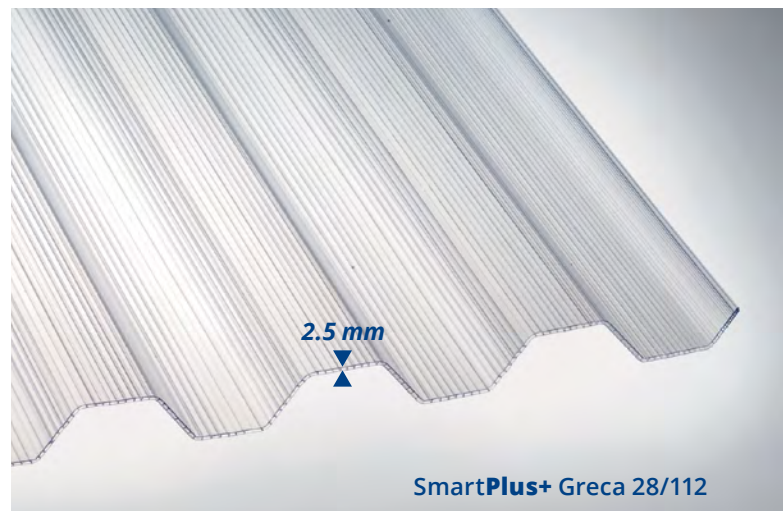
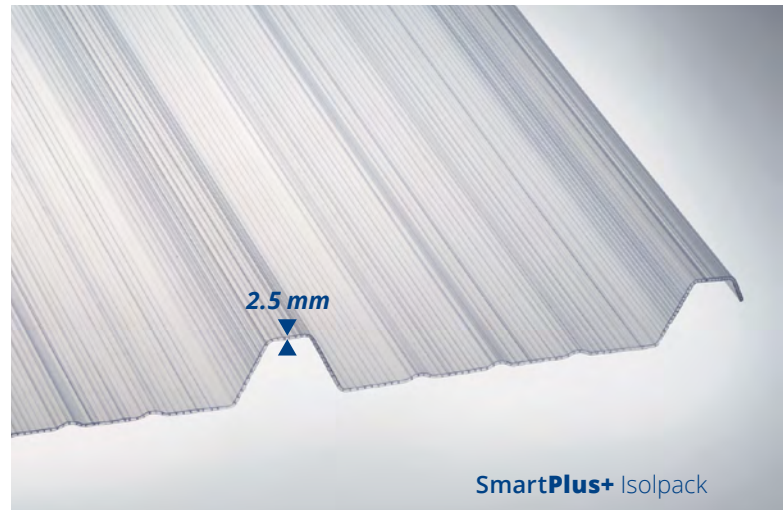
The multiwall structure offers thermal advantages over single skin sheets such as GRP or solid polycarbonate and will reduce incidences of condensation.

The **SmartPlus+** sheet can also be combined with Module 500 false ceiling system to further improve the thermal insulation value of the construction where required.

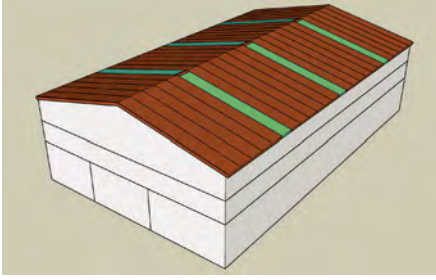
## Technical specifications

Construction of flat skylights and coverings with corrugated extruded multiwall polycarbonate sheets with twinwall structure.

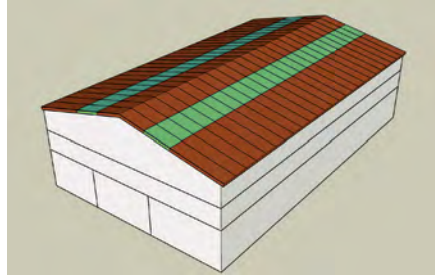
- Heat sealed ends
- UV protected outer layer
- Choice of diffusing clear and opal finishes supplied as standard
- Variety of translucent sheet colours also available subject to quantity
- Choice of profiles
- Euroclass fire rating EN13501-1: B s1 d0 (equivalent UK Class0)
- Manufactured to length



## Typical applications



VERTICAL SKYLIGHT



HORIZONTAL SKYLIGHT



**CSI**  
Certification & Testing

**SmartPlus+** has certifications concerning resistance to hailstones according to UNI 10890:2000, conformity to the EN 10077-2:2004 norm, thermal insulation ( $U = 4.71 \text{ W/m}^2\text{K}$ ) for building materials and also fire rating.



### PRODUCTION FEATURES

Thickness	mm 2,5
Structure	twinwall
Sheet width	according to profile
Sheet length	upon request (max. length recommended is 7mtr)

### PHYSICAL-THERMAL FEATURES

Thermal insulation	$U = 4,71$
Temperature working range	$- 40^{\circ}\text{C} + 130^{\circ}\text{C}$
Linear thermal expansion	$6,7 \times 10^{-5} \text{ mm/mm}^{\circ}\text{C}^*$

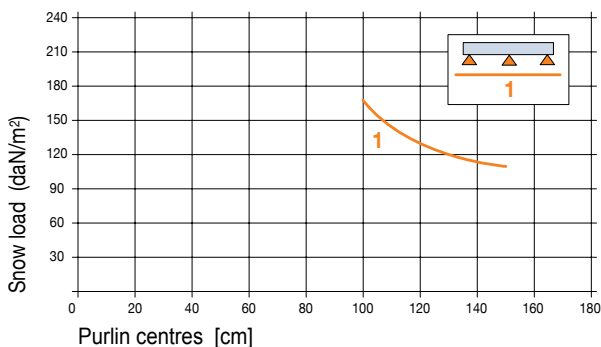
### LIGHT TRANSMISSION FEATURES

Satinized clear colour	$84\% \pm 2$
Opal colour	$76\% \pm 2$

\* GENERAL DATA

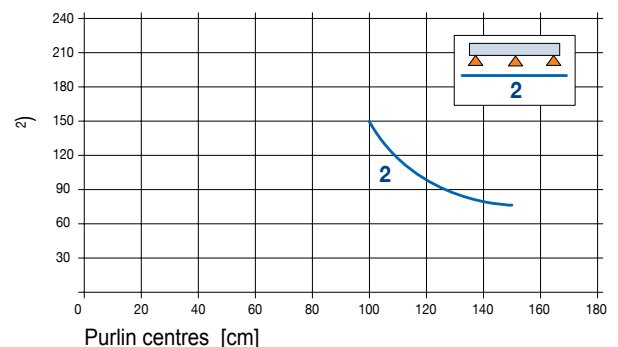
#### LOADING TABLE SMARTPLUS+ 5-CORRUGATION PROFILE FLAT APPLICATION ON MORE SUPPORTS

Deflection allowed 1/50th



#### LOADING TABLE SMARTPLUS+ 28/112 PROFILE FLAT APPLICATION ON MORE SUPPORTS

Deflection allowed 1/50th



Corrugated

Multiwall Polycarbonate

**SmartPlus+**

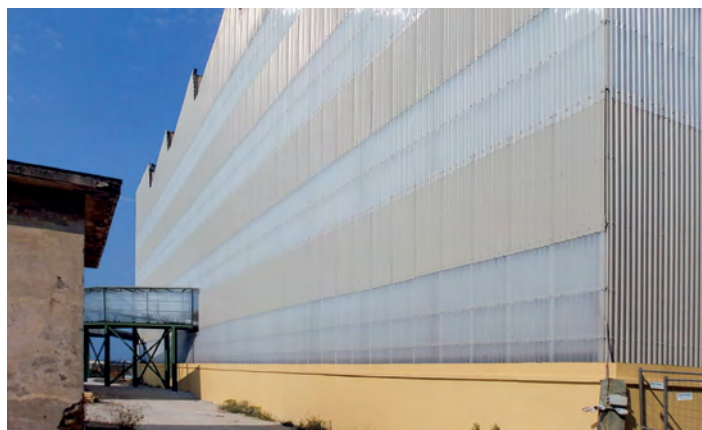
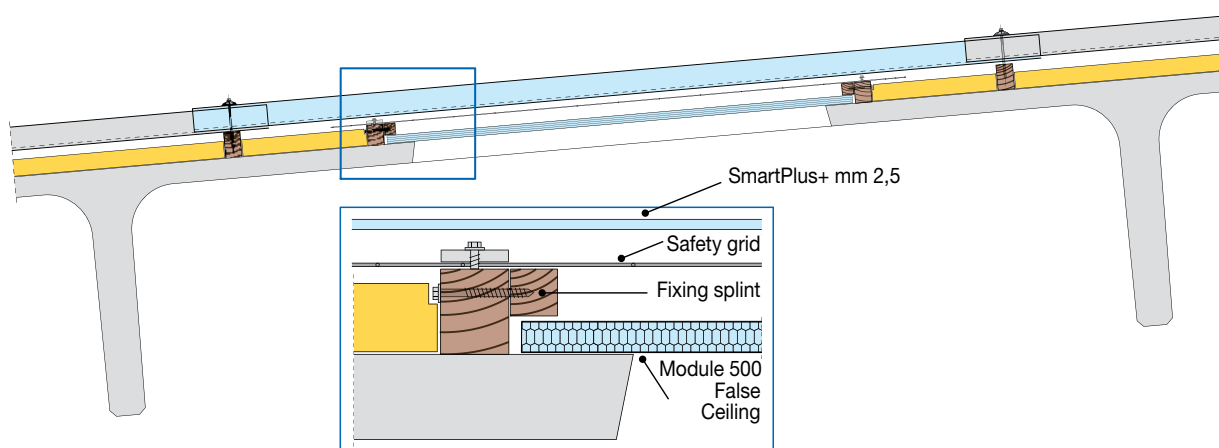


## SmartPlus+ roofing combined with Module 500 false ceiling

**SmartPlus+** can also be combined with a Module 500 False Ceiling in renovating old, single skin skylights to achieve an excellent aesthetic and quality finish, and provide improved thermal insulation.

*The above insulation figures are the results of a theoretical calculation made considering a SmartPlus+ roofing combined with a Module 500 false ceiling. The total height of the two sheets is c. 40 mm and the dimension of the skylight taken into consideration is 1000x6000 mm (figures do not consider any loss due to profiles). Rockwell can not be held as responsible for any possible tolerances or mistakes regarding the above figures.*

PRODUCT	Insulation figure
	(total height is ~40 mm)
SmartPlus+ + Module 500/20	1,46 W/m <sup>2</sup> K
SmartPlus+ + Module 500/25	1,38 W/m <sup>2</sup> K



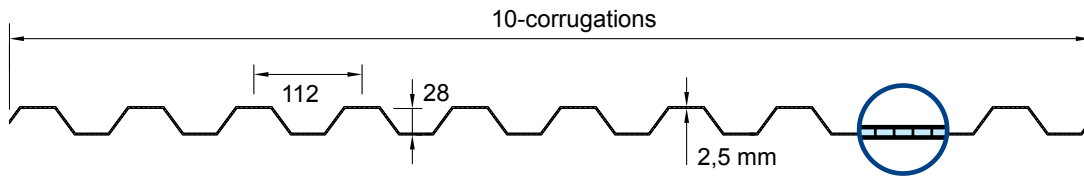
Corrugated

Multiwall Polycarbonate

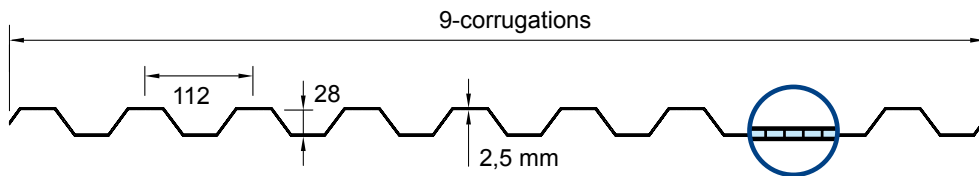
**SmartPlus+**



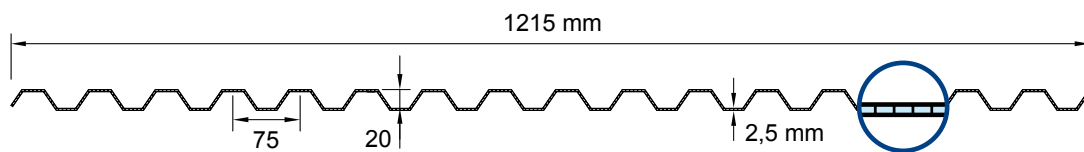
### GRECA 28/112 10-corrugation



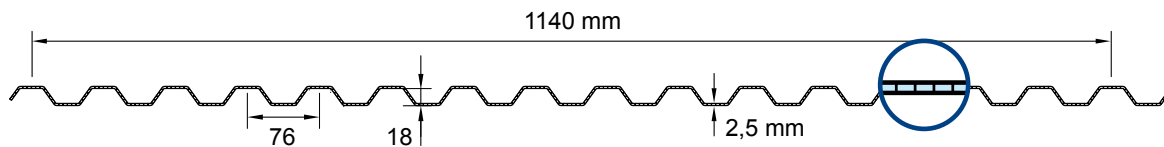
### GRECA 28/112 9-corrugation



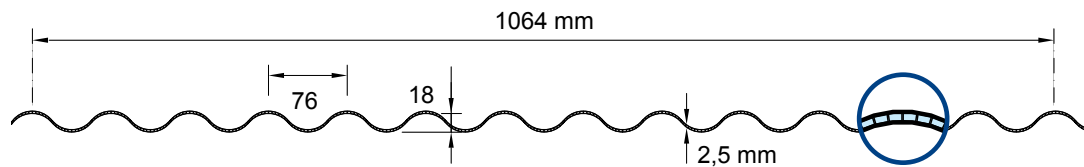
### GRECA 20/75



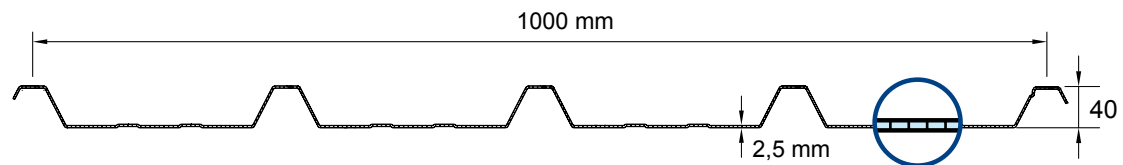
### GRECA 76/18



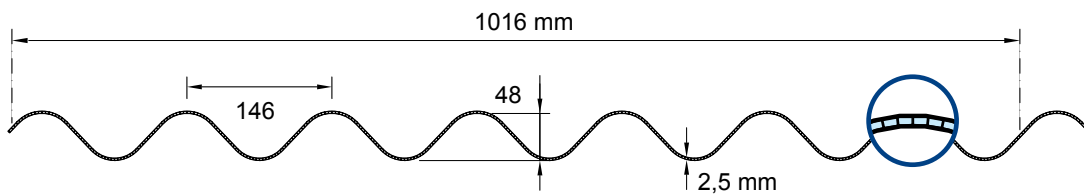
### ONDA 76/18



### SAND 250/40

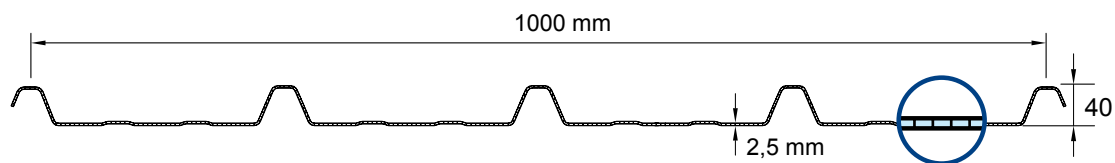


### ONDA 146/48 (minimum order for production is 1000m<sup>2</sup>)

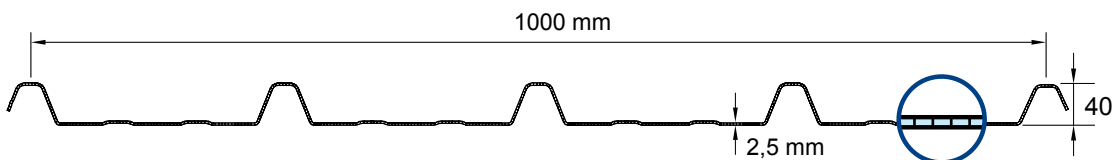




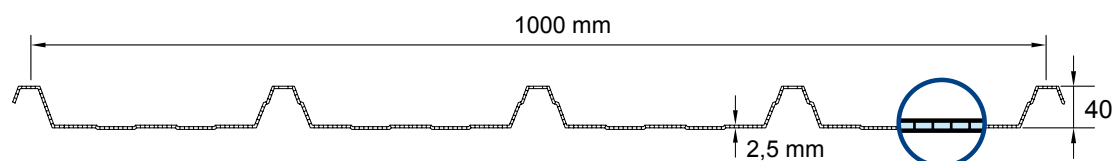
### LATTONEDIL



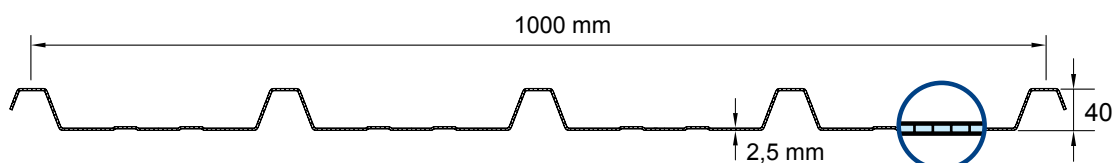
### ADRIA



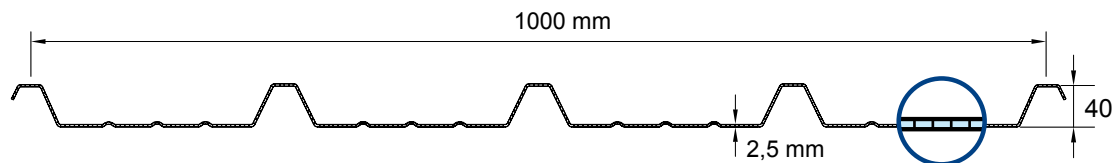
### ITALPANNELLI



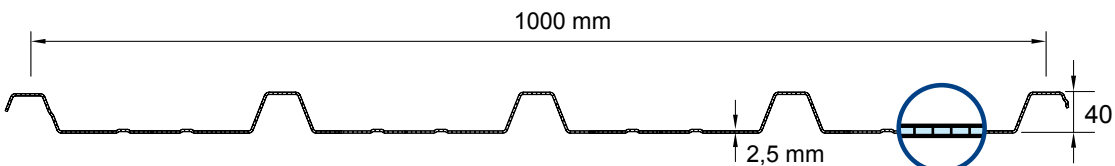
### MARCEGAGLIA



### ISOLPACK



### POLYPIVA



### SILEX

