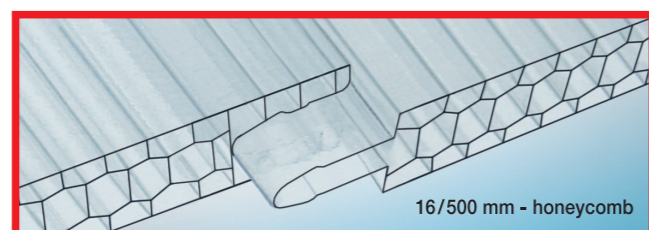
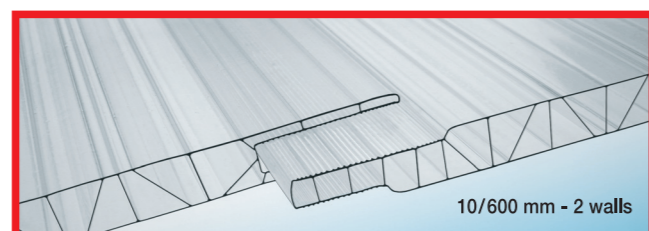


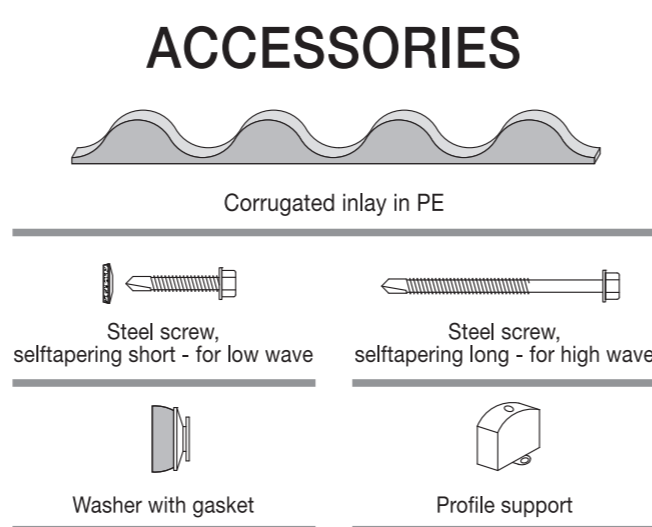
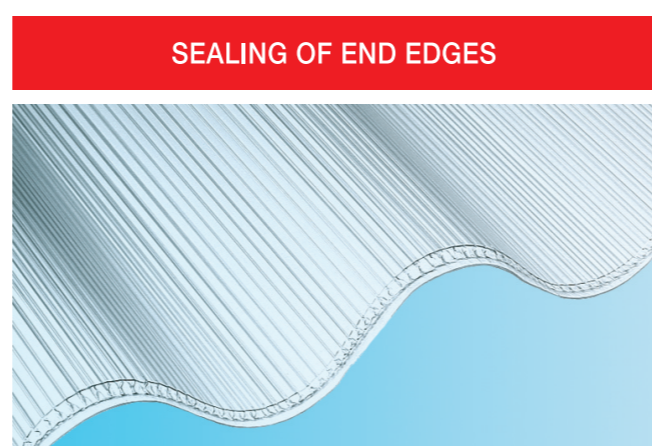
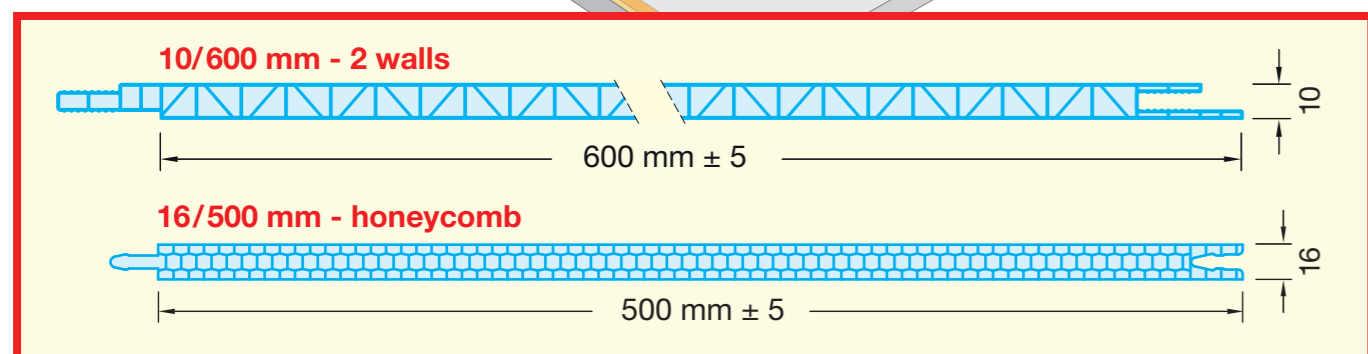
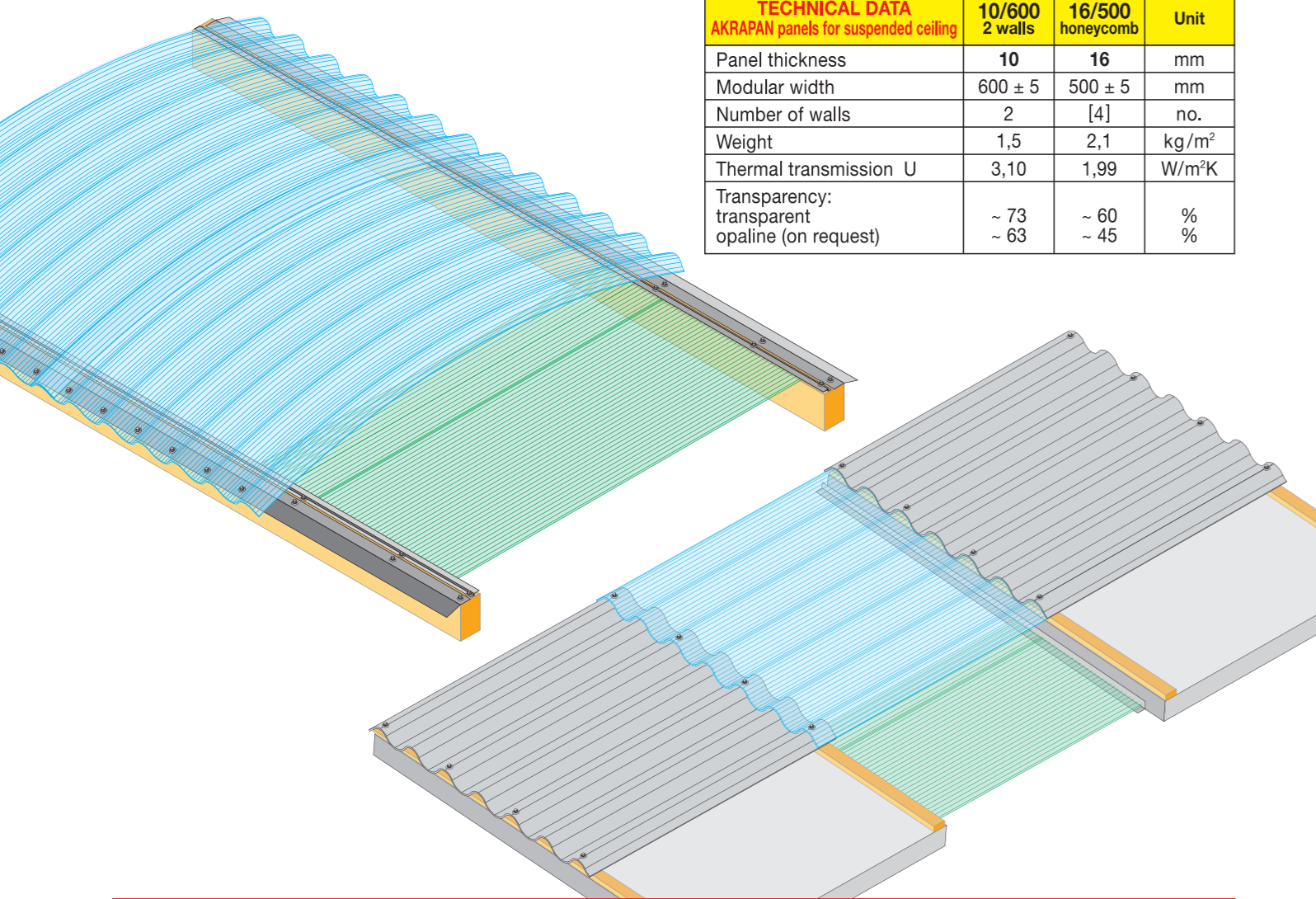
AKRA[®]LUX ONDA with suspended ceiling

The thermal insulation of rooflights produced with AKRALUX ONDA can be increased installing a suspended ceiling with AKRAPAN panels. Due to the special tongue and groove joint, these panels are easy to install without the use of connecting profiles.

The total U-value of thermal insulation of the rooflight is improved additionally, as by the U-value of the AKRAPAN panels (see table TECHNICAL DATA), as by the hollow space between the suspended ceiling and the AKRALUX ONDA sheets.



TECHNICAL DATA AKRAPAN panels for suspended ceiling	10/600 2 walls	16/500 honeycomb	Unit
Panel thickness	10	16	mm
Modular width	600 ± 5	500 ± 5	mm
Number of walls	2	[4]	no.
Weight	1,5	2,1	kg/m ²
Thermal transmission U	3,10	1,99	W/m ² K
Transparency: transparent	~ 73	~ 60	%
opaline (on request)	~ 63	~ 45	%



SPECIFICATION TEXT

Inclined rooflight / domed rooflight with radius = 3500 mm / 6000 mm / Roof (1) in UV protected polycarbonate multi-wall corrugated sheets in profile 177/51, thickness mm (2), width mm (2), thermal insulation U = ... W/m²K (2), colour transparent / opaline (2) with sealed end edges; PE inlays, gaskets and what else is necessary for the tightness at the borders (3) (Type AKRALUX ONDA by Akraplast Sistemi).

- 1) = Alternatively: kind of application.
- 2) = Alternatively: values depending on panels used see table TECHNICAL DATA.
- 3) = Accessories at convenience.

WARRANTY

AKRALUX ONDA sheets are protected against UV rays on the external side with coextrusion process. In Europe they are covered by a 10 YEAR WARRANTY from the date of purchase against yellowing and weather damages (hail, etc.). For Extracountry Countries the warranty may have a different duration. For further details, please ask for the Warranty Certificate.

CERTIFICATES

With regards to the fire performance, the AKRALUX ONDA sheets are classified in Europe in European Fire Class EN 13501-1 B s1 d0. For further details please ask for copy of the respective certificate.

POSITIONING, TOOLS AND FIXING

The sheets should be positioned with the UV protected side being on the external face. Recommended minimum slope for inclined roofs: 4° (7%). When cutting the sheets on site a metal saw with fine teeth should be used. The positioning of the sheets is the same as metal profiled sheets and sandwich panels, likewise the tools for working with the product are the same as would be used for metal sheeting. Screws with a washer gaskets and shaped crown washers with a gasket are used to fix the sheets. When fixing the sheets pre-drill a bore hole, which must be wider than the screw diameter, to allow thermal expansion. If required, a compatible silicone for use with polycarbonate should be used.

MAINTENANCE

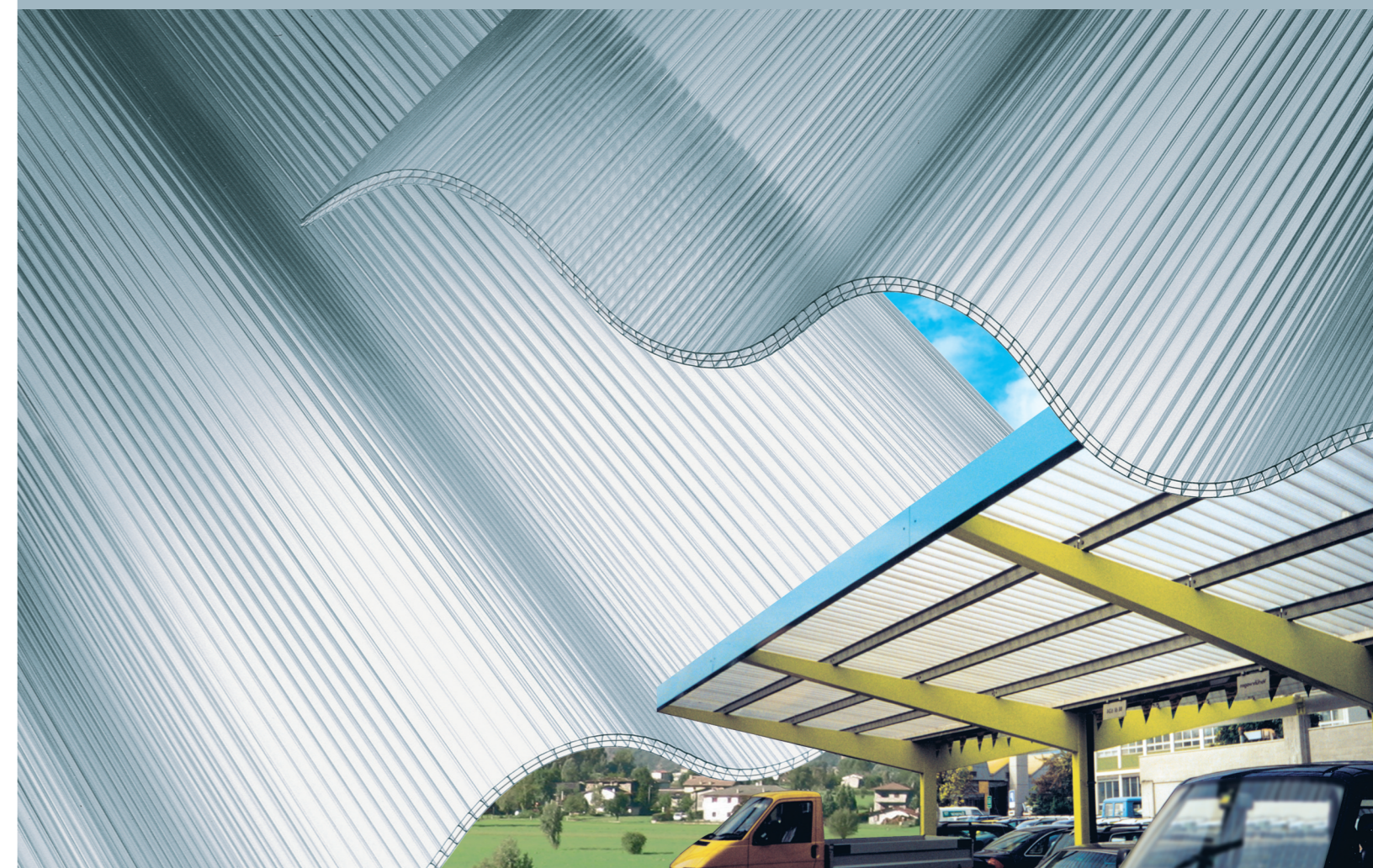
It is recommended to clean the sheets regularly, in order to remove dirt due to dust and atmospheric pollution, using cold or lukewarm water and (if necessary) neutral detergents; don't use abrasive cloths, hot water and/or chemical detergents; avoid to clean the sheets if they are overheated by the sun.

RESPONSIBILITY CLAUSE

The values and recommendations given are to the best of our knowledge, true and accurate. Since the conditions under which the products may be used are beyond our control, recommendations are made without guarantee. These indications do not exempt the customer to make all controls to determine that the materials correspond to his requirements and to the laws in force. AKRAPLAST Sistemi S.p.A. reserves the right to change specifications of products and the content of this leaflet at any time.

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03/2014_R1



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THE HIGHLY
TRANSLUCENT CORRUGATED
INSULATING SHEET

AKRALUX[®] ONDA

MULTI-WALL CORRUGATED SHEETS IN UV PROTECTED POLYCARBONATE

The various types of corrugated sheets **AKRALUX ONDA** are used for all roofing applications where simple installation and durability are required. **AKRALUX ONDA** is particularly suitable for cladding and roofing in industrial, civil and agricultural buildings, sport sites, translucent platforms and rooflights as well as lighting in corrugated fibre cement roofs.

PROPERTIES and APPLICATIONS

The **AKRALUX ONDA** sheets in polycarbonate are protected against UV rays with a coextrusion process and are supplied with thermo-sealed end edges. They offer the following particular characteristics:

POSITIONING: by overlapping the sheets no joint profiles are needed and therefore the installation is easy and fast.

Recommended minimum slope: 4° (7%).

LIGHTNESS: due to the low weight, the sheets are easy to transport and quick to install.

HIGH TRANSPARENCY: excellent light diffusion and high transparency. Due to the special coating on the external side, these properties remain practically unchanged during time.

THERMAL INSULATION: the cellular structure, together with the low thermal transmission value of polycarbonate, give good thermal insulation. This ensures improved energy saving (see table TECHNICAL DATA).

NO DROP: with correct ventilation, the cellular structure of **AKRALUX ONDA** can ensure no internal condensation occurs.

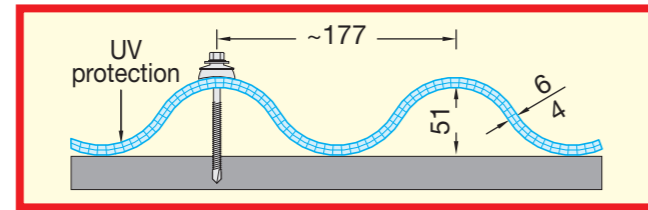
SELFCARRYING: extraordinarily high free span due to the high rigidity of the **AKRALUX ONDA** multi-wall sheets (see LOAD TABLE).

PRACTICALLY UNBREAKABLE: the considerable impact strength offers protection against hail and vandalism.

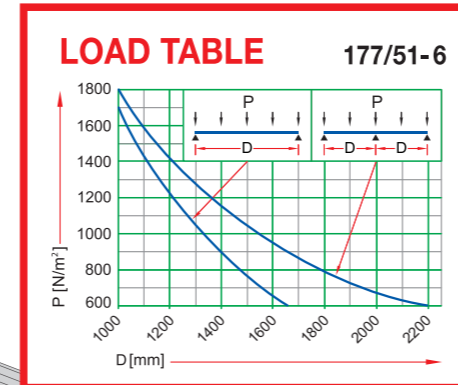
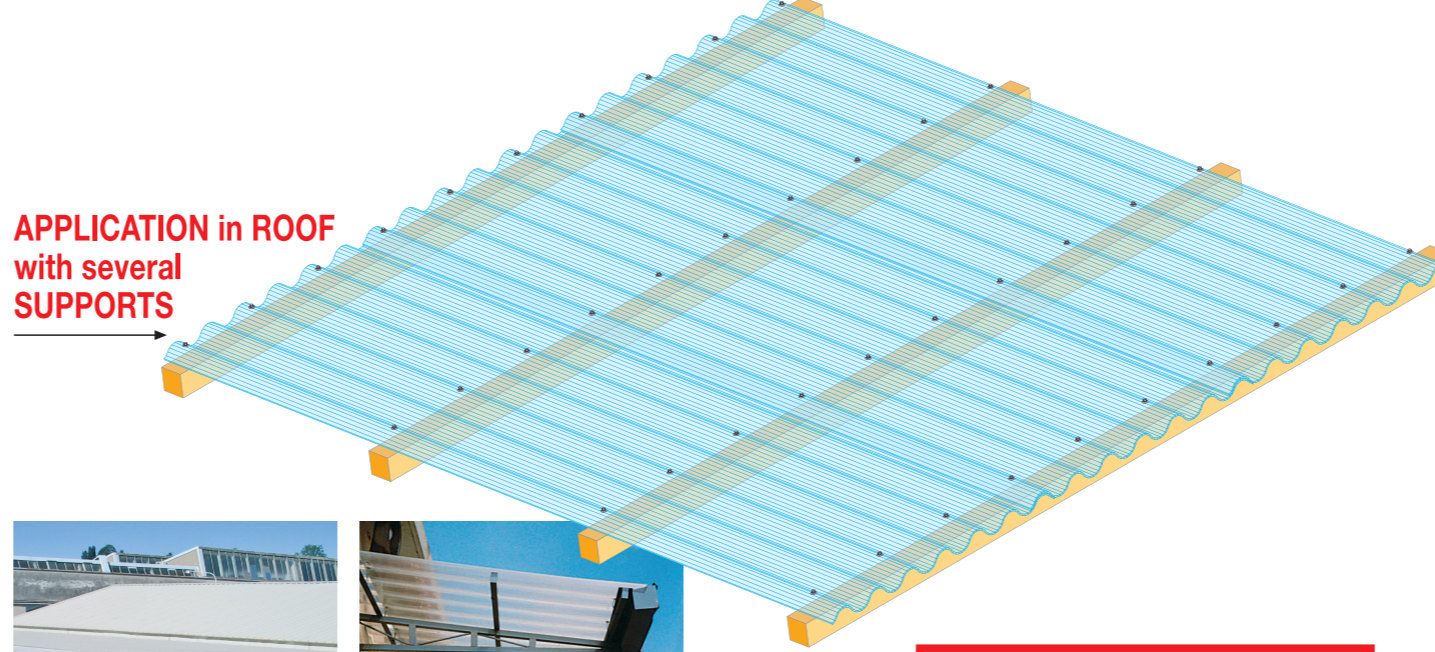
FIRE PERFORMANCE: **AKRALUX ONDA** sheets are classified in European Fire Class EN-13501-1 B s1 d0 no drop.

HIGH WEATHER RESISTANCE: the **AKRALUX ONDA** sheets offer high weather resistance and durability in the whole temperature range of use.

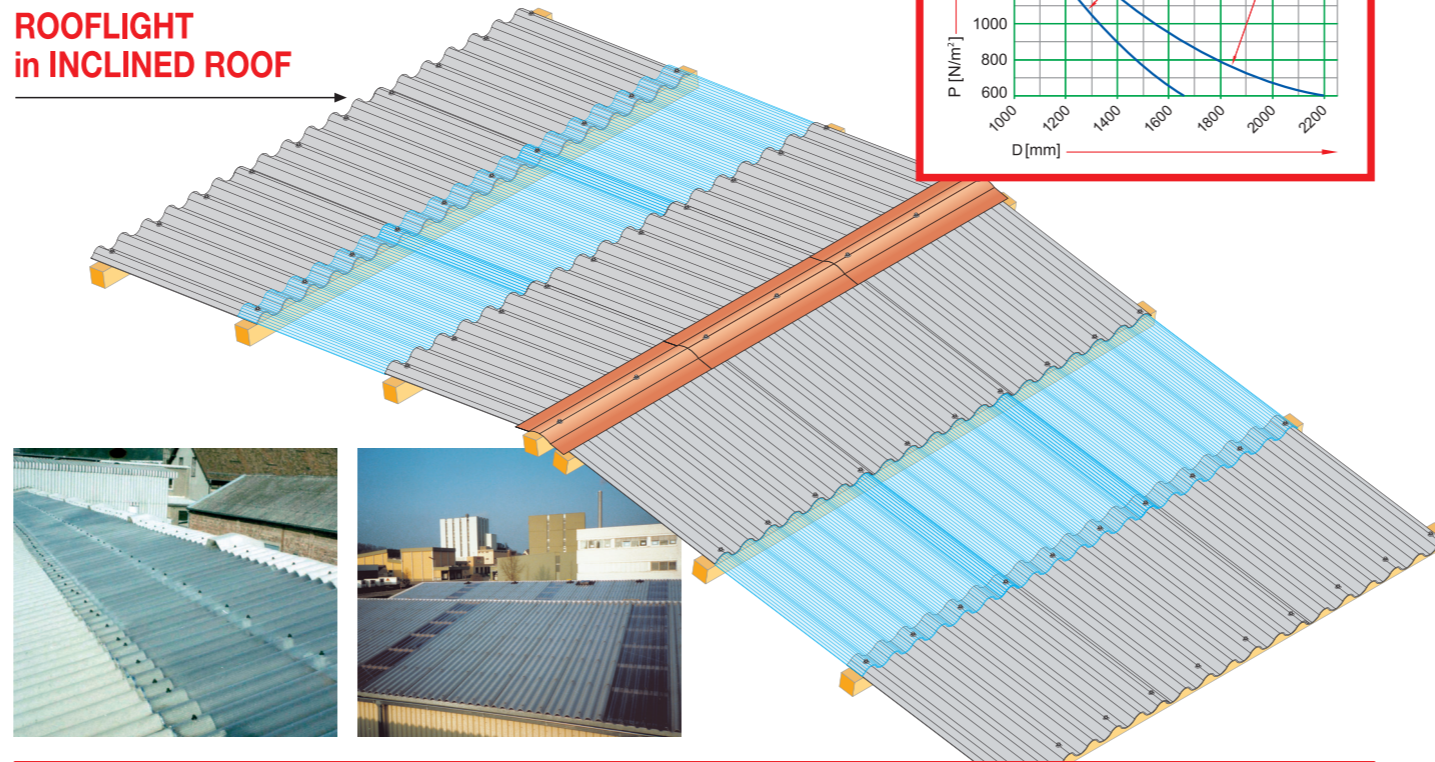
RESISTANCE TO CHEMICAL AGENTS: for information about the compatibility with chemical agents please contact the manufacturer.



APPLICATION in ROOF with several SUPPORTS



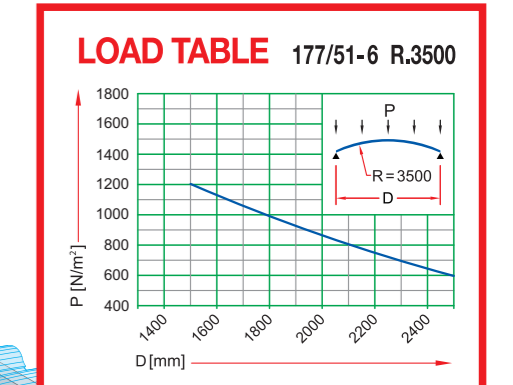
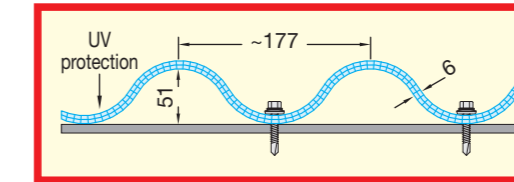
ROOFLIGHT in INCLINED ROOF



AKRALUX[®] ONDA Curvo

AKRALUX Onda Curvo offers very practical solutions for domed rooflights, especially in combination with the classical fibre cement corrugated sheets in profile 177/51 mm.

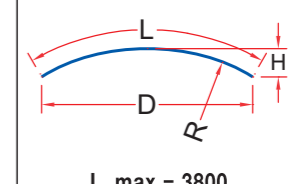
The **AKRALUX ONDA Curvo** sheets are produced from the **AKRALUX ONDA** sheets by thermoforming. They offer all advantages and technical properties of the **AKRALUX ONDA** sheets and in addition the high rigidity given by the vault geometry (see LOAD TABLE).



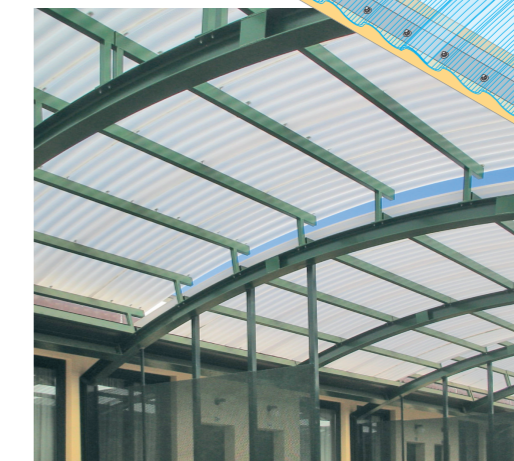
TECHNICAL DATA	177 / 51- 6	177 / 51- 4	Unit
Pitch/height of wave	177 / 51	177 / 51	mm
Thickness	6	4	mm
Number of walls	3	3	no.
Sheet width	920 - 1097 - 1152 - 1168	920 - 1097	mm
Length	on request max. 13500		mm
Minimum radius cold bending	~ 10000		mm
Weight	~ 2,0	~ 1,5	kg/m ²
Thermal transmission U	3,40	3,88	W/m ² K
Light transmission:			
transparent (*)	~ 74	~ 76	%
opaline (on request) (*)	~ 62	~ 64	%
Thermal expansion	0,065		mm/m K
Temperature range	-40/+120		°C
Fire classification EN 13501-1	B s1 d0		

(*) Standard colour - other colours on request for quantities

GEOMETRY						
Heat-curved	Example	R.3500		R.6000		Unit
	L	D	H	D	H	
	3800	3590	495	3720	295	mm
	3500	3330	420	3435	250	mm
	3000	2885	310	2955	185	mm
	2500	2430	215	2470	130	mm
	2100	2050	155	2080	90	mm
	1830	1795	115	1815	70	mm
	1530	1505	80	1520	50	mm
	1220	1205	50	1210	30	mm



L. max = 3800



TECHNICAL DATA	177 / 51- 6 Curvo	Unit
Pitch/height of wave	177 / 51	mm
Thickness	6	mm
Number of walls	3	no.
Sheet width	1097 - 1168	mm
Length	on request max. 3800	mm
Minimum radius cold bending	~ 3500 / ~ 6000	mm
Weight	~ 2,0	kg/m ²
Thermal transmission U	3,40	W/m ² K
Light transmission:		
transparent (*)	~ 74	%
opaline (on request) (*)	~ 62	%
Thermal expansion	0,065	mm/m K
Temperature range	-40/+120	°C
Fire classification EN 13501-1	B s1 d0	

(*) Standard colour - other colours on request for quantities