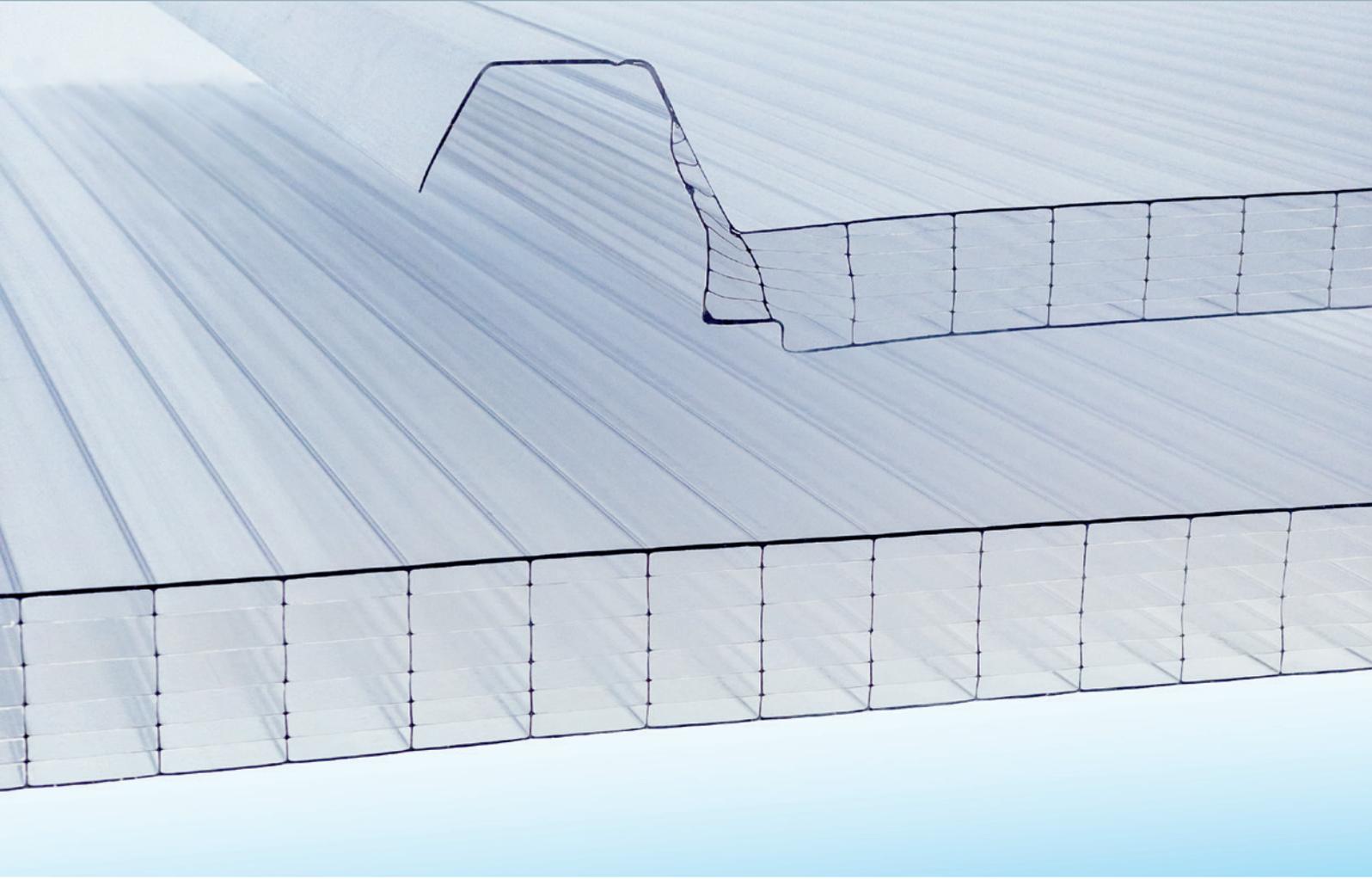


# **AKRA<sup>®</sup>LUX** **PANEL GP**



***HIGHLY INSULATING  
MULTI-WALL ROOF PANELS  
IN POLYCARBONATE***

# AKRA<sup>®</sup> LUX PANEL GP

## UV PROTECTED MULTI-WALL PANELS IN POLYCARBONATE IN COMBINATION WITH METALROOFING ELEMENTS

AKRALUX PANEL GP is particularly suitable for lighting in roofs of industrial buildings and storehouses, together with profiled metal sheets and sandwich panels.

### PROPERTIES and APPLICATIONS

AKRALUX PANEL GP sheets in polycarbonate are protected against UV rays with coextrusion process and offer the following particular characteristics:

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

**SELF-CARRYING:** Due to the high rigidity of the AKRALUX PANEL GP sheets, high free spans may be obtained.

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

**CONDENSATION:** With correct ventilation, the multi-wall structure of the panels ensures that no internal condensation occurs.

**TRANSPARENCY and DURABILITY:** The panels are extruded in high-grade polycarbonate with UV protection on the external side and offer high transparency. Due to the UV coating the primary properties of transparency and mechanical resistance remain almost unchanged during time, even beyond the warranty period.

**WEATHERING RESISTANCE:** The AKRALUX PANEL GP sheets offer high weathering resistance and durability in the whole temperature range of use.

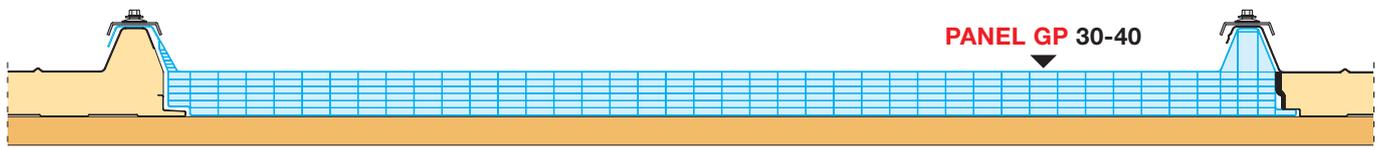
**LIGHTNESS:** The low weight of the sheets facilitates transport and installation.

**INSTALLATION:** The jointing of the panels by lateral overlap allow easy and quick installation. **Minimum recommended slope 4° (7%).**

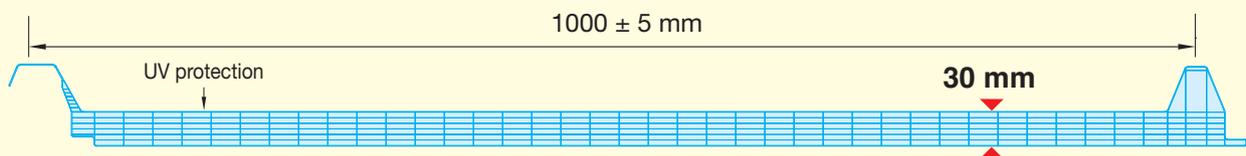
**FIRE PERFORMANCE:** The AKRALUX PANEL GP sheets are certified according to European Standard EN 13501-1 in class B s1 or s2 d0.

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

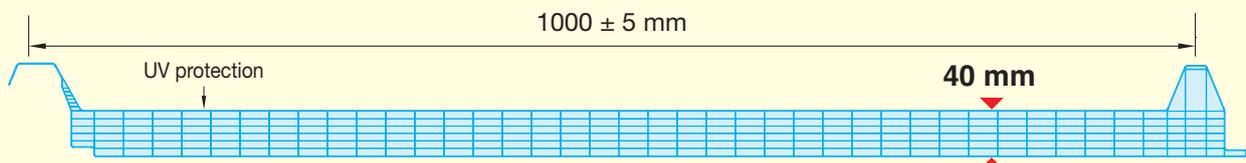
### SIDE OVERLAP WITH SANDWICH PANELS



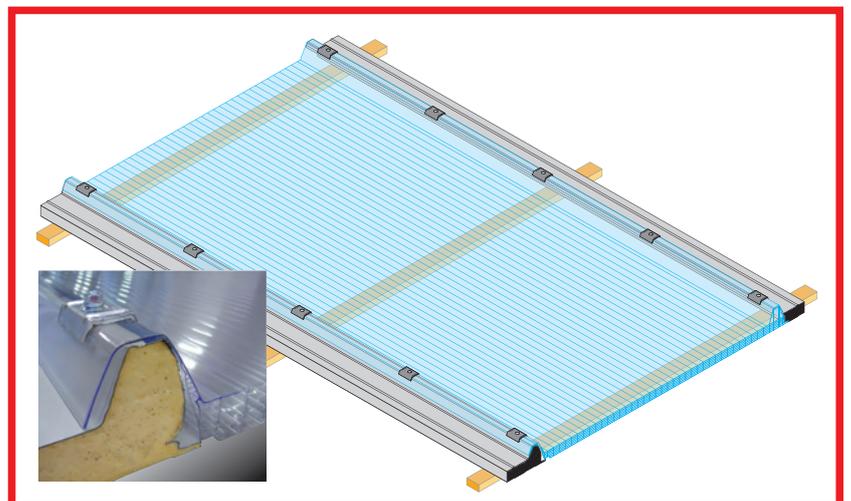
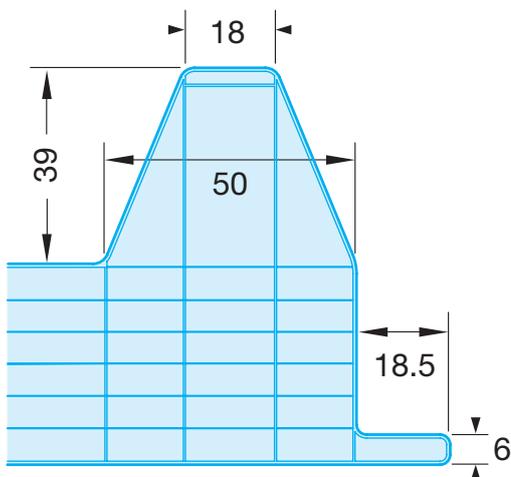
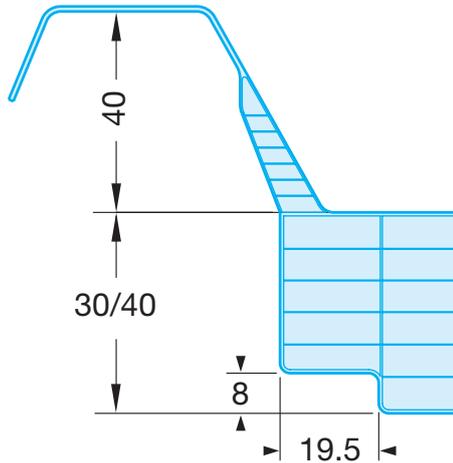
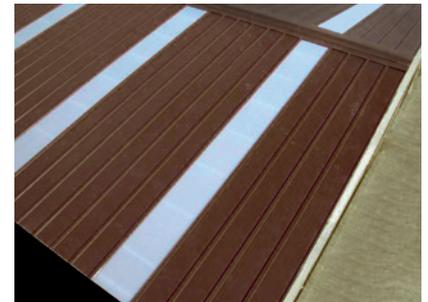
#### PANEL GP 30



#### PANEL GP 40

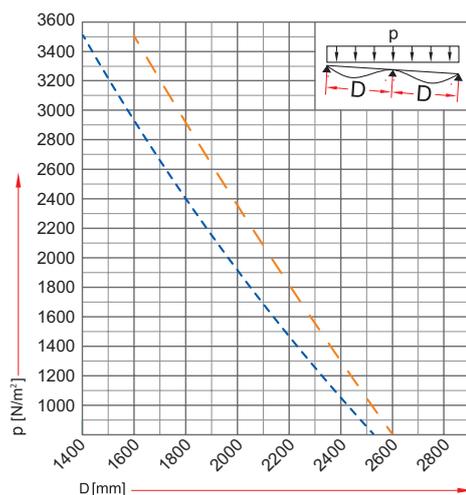


**AKRALUX PANEL GP** can be produced on request with or without horizontal notch at the lower part of the side wing. This feature allows locking or combination with sandwich panels of any thickness.



**LOADS**

**PANEL GP 30 - - - - 40 - - -**

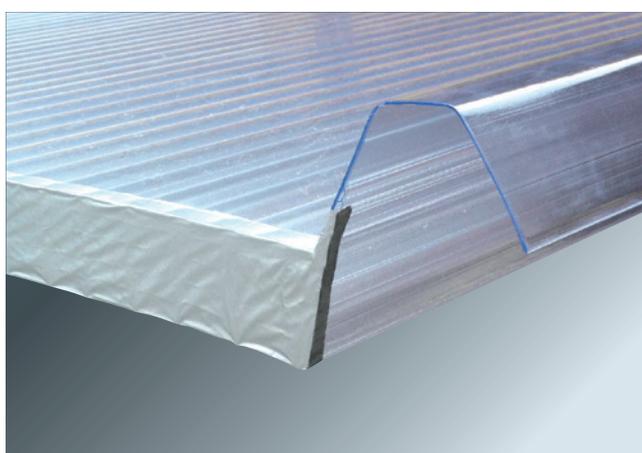


TECHNICAL DATA	PANEL GP		Unit
Panel thickness	30	40	mm
Modular width	1000 ± 5 mm		mm
Number of walls	7		no.
Length on request	max. 13500 mm		mm
Standard width side wings	25		mm
Transparency: transparent opaline	~ 54	~ 54	%
	~ 36	~ 36	%
Thermal transmission U	1,20	1,00	W/m²K
	1,30	1,10	
Fire classification EN 13501-1	B s1 d0 / B s2 d0		mm/m K
Thermal expansion	0,065		°C
Temperature range	-40 / +120		

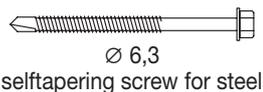
## EXTRUSION AKRALUX PANEL GP SHEET



## TAPED END EDGES



## ACCESSORIES



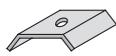
Ø 6,3  
selftapering screw for steel



washer  
with gasket



PE adhesive  
gasket



profiled cover plate  
with gasket

## SPECIFICATION TEXT

### • Rooflight; • Flat roof;

In polycarbonate multi-wall sheets, UV protected, with taped end edges,

• thickness 30 - 40 mm, modular width 1000 mm;  
7 walls (6 chambers), colour transparent and opaline,  
thermal transmission  $U = 1,32 - 1,08 \text{ W/m}^2\text{K}$ .

(\*) Choose between the alternatives •

## WARRANTY

**AKRALUX PANEL GP** 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 Extra-european 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 PANEL GP** sheets are classified in European Fire Class EN 13501-1 B s1 d0 or B s2 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 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's 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.

## RESPONSABILITY 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.r.l. reserves the right to change the products and the content of this leaflet at any time.

[www.akraplast.com](http://www.akraplast.com)

# AKRAPLAST®

AKRAPLAST Sistemi S.r.l.

I - 20026 Novate Milanese (MI) - Via Cascina del Sole, 70

Tel. (+39) 02 35 13 91 1 - Fax (+39) 02 35 13 91 50

E-mail: [info@akraplast.com](mailto:info@akraplast.com) - [www.akraplast.com](http://www.akraplast.com)



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