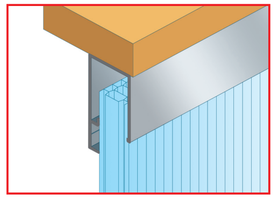
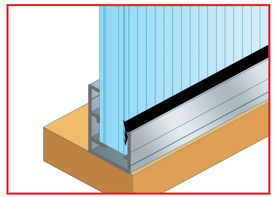
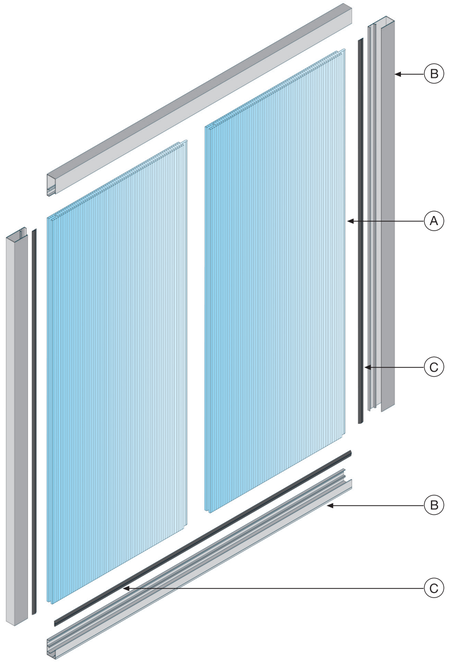
SECTION with panels in thickness 16 - 20 mm

FIXING WITH TOP PROFILE PAN-X-120



FIXING WITH BOTTOM PROFILE PAN-X-130

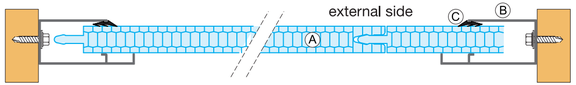




(A) **AKRAPAN Panel** in UV-protected polycarbonate

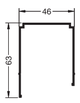
(B) Aluminium window frame

(C) Gasket in EPDM for frame profile

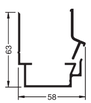


FRAME PROFILES

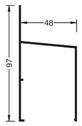
in anodised aluminium (bars length 6 m)



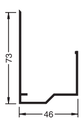
M 610
top profile



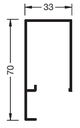
M 622
bottom profile
2 pieces



M 615
top profile

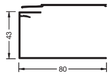


M 628
shed profile



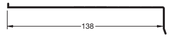
PAN-X-120
top and side profile for 16/20 mm

PAN-X-050
PAN-X-440
side profile 2 pieces



PAN-X-130
bottom profile for 16/20 mm

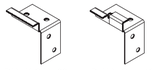
M 626
special bottom profile



GASKET in EPDM

M767
for side profile

HOOKS in inox



PAN-X-GAN-20 PAN-X-GAN-40

GASKET in PE

adhesive gasket **Y0030**
20x10 mm (rolls L = 10)

PE INLAYS

M727

SPECIFICATION TEXT

Glazing/Shed (1) with modular system composed of multi-walled UV-protected tongue and grooved polycarbonate panels in **thickness ..... (2), modular width ..... (2), thermal insulation not lower than ..... (2), colour ..... (2)**; frame profiles in anodised aluminium; **PE inlays ..... (3)**, gaskets and whatever is necessary for perfect tightness of the perimeters **(modular glazing system AKRAPAN by Akraplast Sistemi).**

1) = Alternatively: kind of application
2) = Alternatively: values depending on choosed panel type see **PANELS** and **TECHNICAL DATA**
3) = PE-inlays: are not required for the 40 mm thick panels

WARRANTIES

AKRAPAN panels are protected against UV-rays on the external surface by a coextrusion process. They are covered by a **10 YEARS WARRANTY** regarding weather resistance and breakage (hail, etc.), starting from the date of sale. For non European Countries the warranty may be different. For further information, please ask for a copy of the certificate.

CERTIFICATES

Regarding fire performance, the **AKRAPAN** sheets are classified in Europe in European Fire Class EN 13501-1 B s1 d0 and B s2 d0 (DIN 4102 B1). For further details please ask for copy of the respective certificate.

TECHNICAL HANDBOOK

On request a TECHNICAL HANDBOOK is available, containing detailed information about following items:

- PROPERTIES of the SYSTEM
- ELEMENTS of the SYSTEM
- APPLICATIONS

This Handbook is recommended as help for the planner during elaboration of the project and for the installation of the system.

RESPONSABILITY CLAUSE

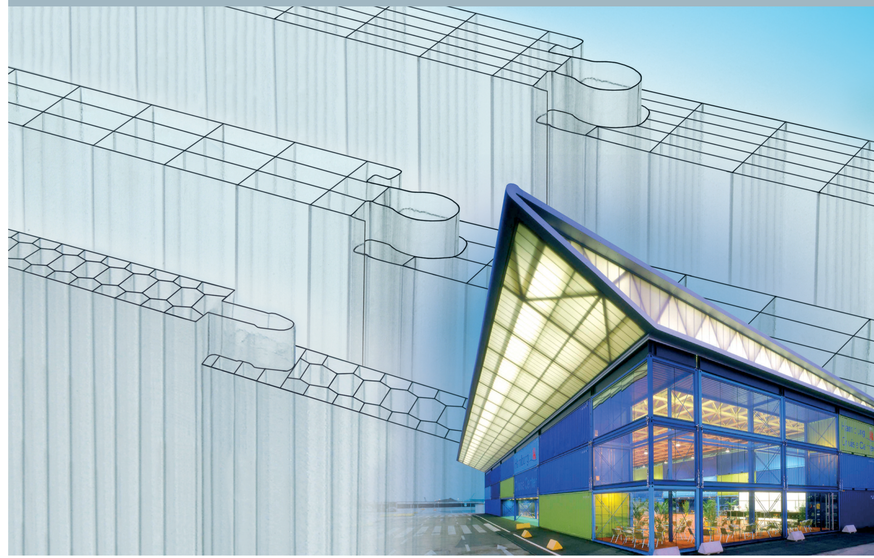
Values and recommendations given are to the best of our knowledge true and accurate. Since the conditions under which our products may be used are beyond our control, recommendations are made without guarantee. These indications do not exempt the customer from verifying the suitability of the materials with his needs and the laws pertaining in the country of application.

We reserve the right to change specifications at any time.

www.gepi2-0.it

03/2014 R2

AKRA® PAN



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MODULAR GLAZING ELEMENTS IN POLYCARBONATE

AKRAPAN

THE HIGHLY INSULATING TRANSLUCENT ELEMENT IN POLYCARBONATE WITH TONGUE AND GROOVE JOINTING

AKRAPAN is a glazing panel for aesthetically important external applications. It can be used wherever high thermal insulation, big free spans and easy fixing are required.

PROPERTIES and APPLICATIONS

AKRAPAN is particularly suitable and is available in a range of thickness for high quality cladding and northlights in industrial buildings, sports sites and warehouses (vertical and inclined), or for suspended and pavilion roofs.

AKRAPAN panels are extruded in UV protected polycarbonate and offer the following excellent characteristics:

HIGH TRANSPARENCY: Excellent light diffusion and high transparency. Due to the special surface coating on the external side the transparency remains virtually unchanged with age.

THERMAL INSULATION: The multi-wall structure of **AKRAPAN** panels, combined with the low heat transmission value of polycarbonate, ensure a particularly high thermal insulation and therefore the best choice for energy saving.

SELFCARRYING: Due to the extreme rigidity of the panels, high free spans can be obtained (see TECHNICAL DATA).

PRACTICALLY UNBREAKABLE: The considerable impact strength and the high resistance against mechanical damage offer protection against hail and vandalism.

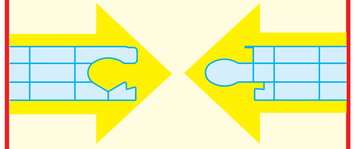
PROCESSING: Due to the tongue and groove principle **AKRAPAN** panels don't need other supporting channels and therefore are quick and easy to fit.

WEIGHT: Due to the lightness of **AKRAPAN** panels transportation and assembly is easy.

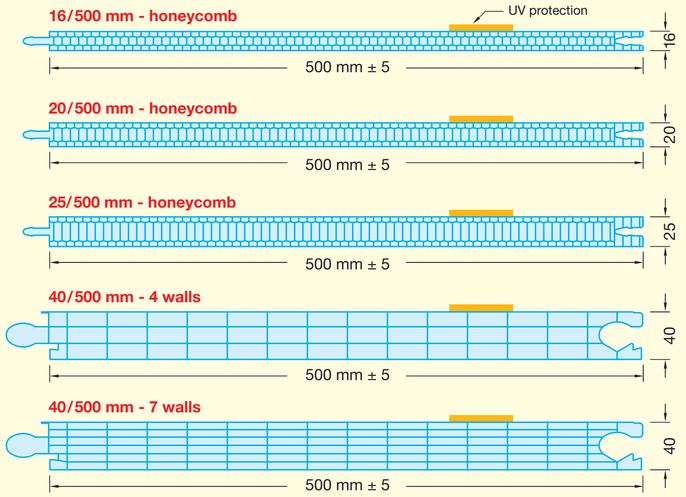
HIGH WEATHER RESISTANCE: AKRAPAN panels are UV-protected and offer good weather resistance in temperatures ranging from - 40°C up to +120°C.

RESISTANCE TO CHEMICAL AGENTS: in case please contact us for a check-up of the chemical behaviour.

No jointing profiles are required which allows for an aesthetically uniform finish. The panels offer an ideal solution when high quality aesthetics and ease of fixing are required.



PANELS for EXTERNAL USE with UV protection



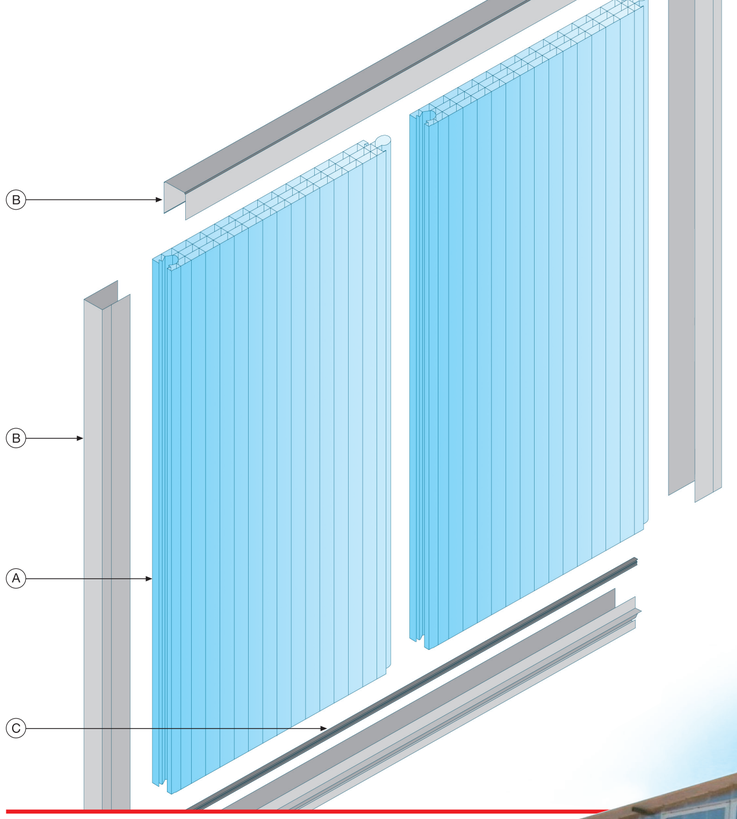
SECTION with panel in thickness 40 mm

FIXING WITH TOP PROFILE M610

FIXING WITH BOTTOM PROFILE M622

FIXING WITH TOP PROFILE M615

FIXING WITH BOTTOM SHED PROFILE M628



(A) **AKRAPAN Panel** in UV-protected polycarbonate

(B) Frame profile in aluminium

(C) Gasket in EPDM for frame profile

TECHNICAL DATA		16/500 honeycomb	20/500 honeycomb	25/500 honeycomb	40/500 4 walls	40/500 7 walls	Unit
Panel modular width		500 (± 5)					mm
Panel thickness		16	20	25	40	40	mm
No. of walls		[4]	[4]	[4]	4	7	no.
Thermal transmission [U-value]		1,99	1,81	1,65	1,42	1,08	W/m²K
Light transmission	Transparent satinized (*)	~ 60	~ 54	~ 51	~ 65	~ 54	%
	Opaline White (*)	~ 45	~ 35	~ 25	~ 25	~ 20	%
P D SPANS		D max.	D max.	D max.	D max.	D max.	
P = 500 N/m² (wind ≈ 100 Km/h) →		1300	1400	1600	2300	2350	mm
P = 800 N/m² (wind ≈ 130 Km/h) →		1200	1300	1450	2050	2100	mm
Thermal expansion		0,065					mm/m K
Temperature range		-40/+120					°C
Fire classification EN 13501-1		B s1 d0			B s2 d0		

(*) standard colours - other colours produced on request dependant on quantities