

AKRA[®] PAIN



***TONGUE-GROOVE ELEMENTS
IN POLYCARBONATE***

AKRA[®] PAINI

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).

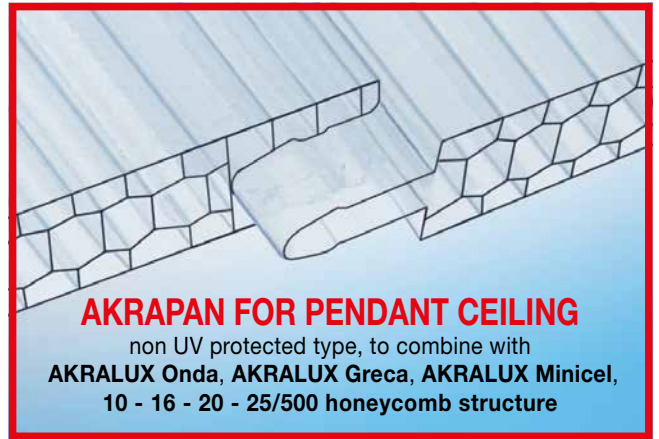
PRACTICALLY UNBREAKABLE: The considerable impact strength and the high resistance against mechanical damage offer protection against hail and vandalism.

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

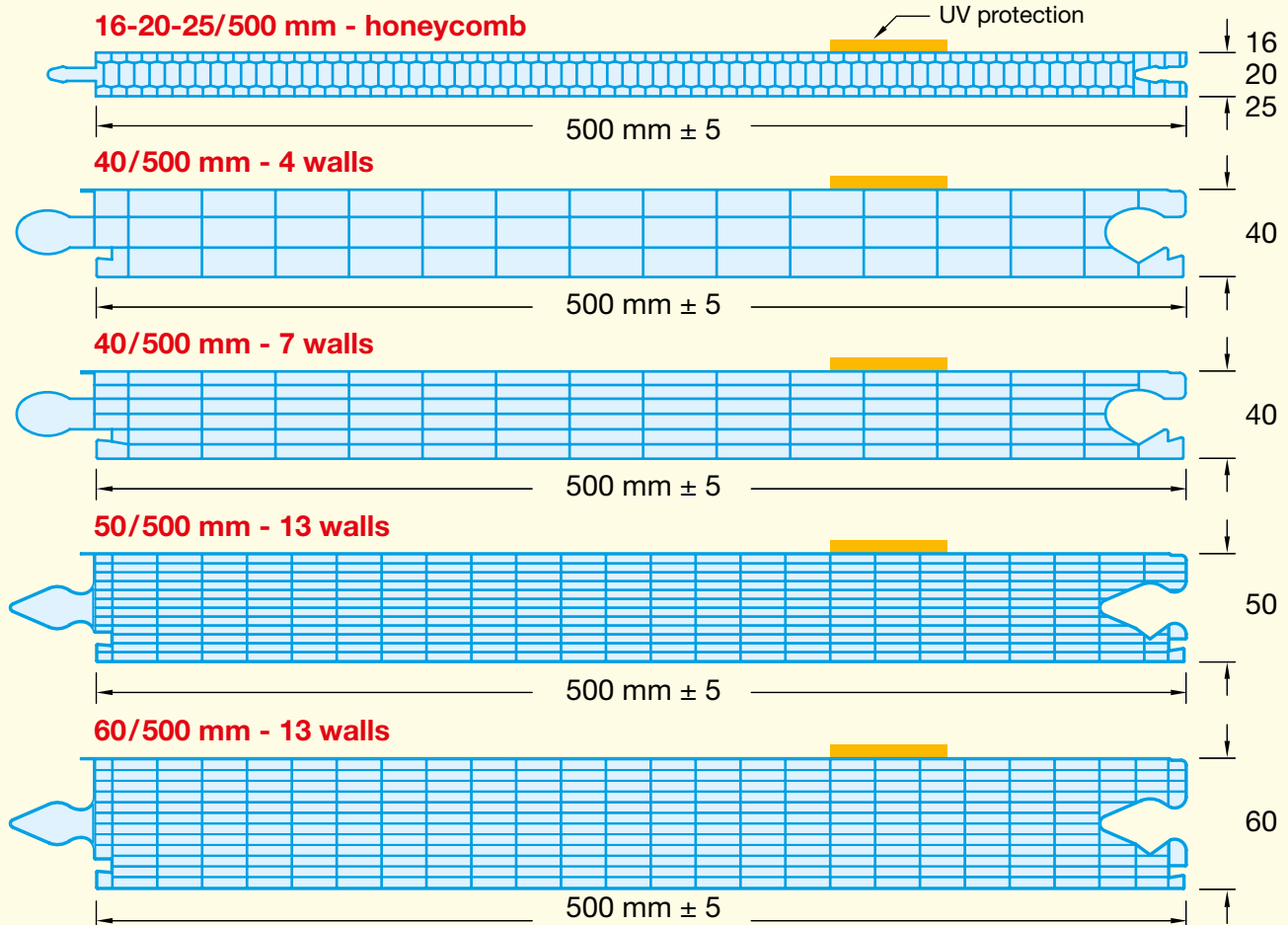
WEIGHT: Due to the lightness of **AKRAPAN** panels transportation and assembly is easy.

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.

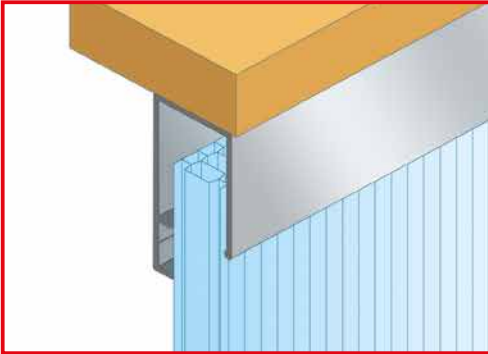


PANELS for EXTERNAL USE with UV protection

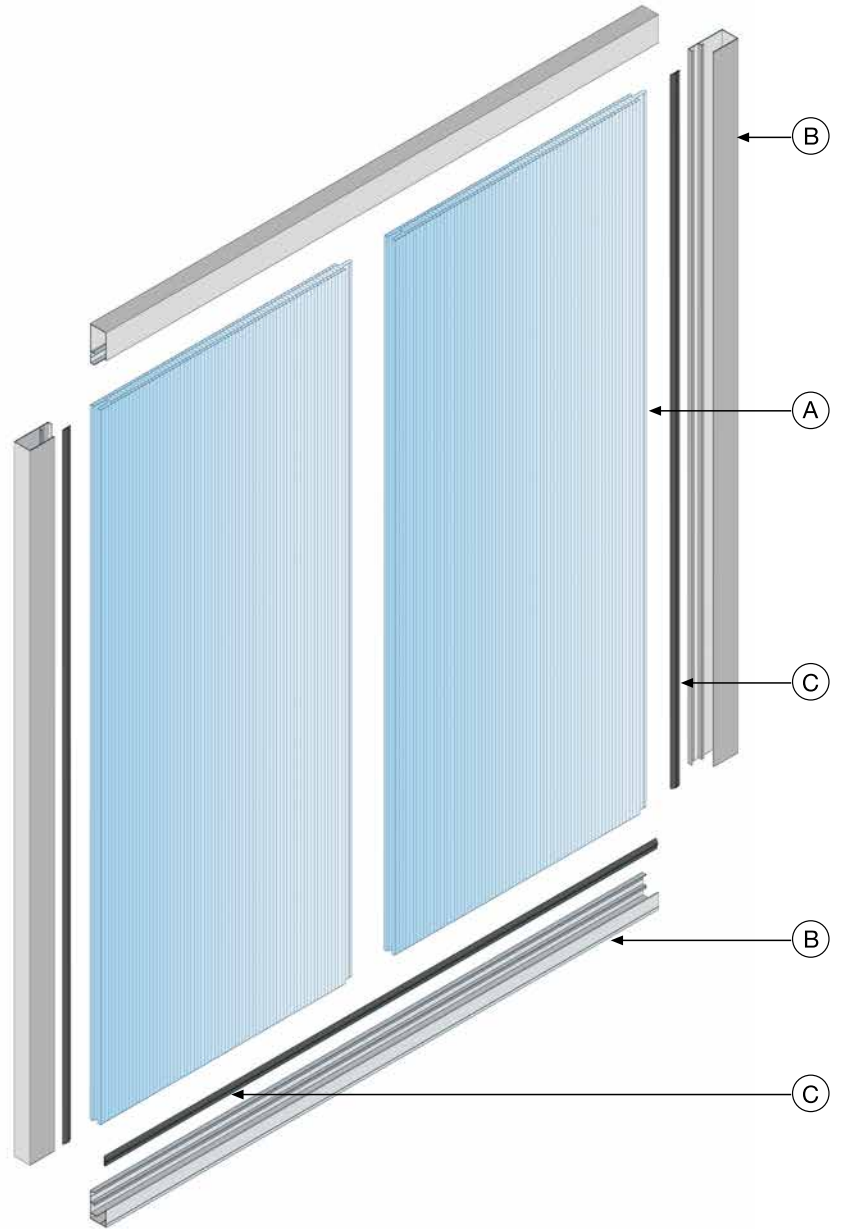
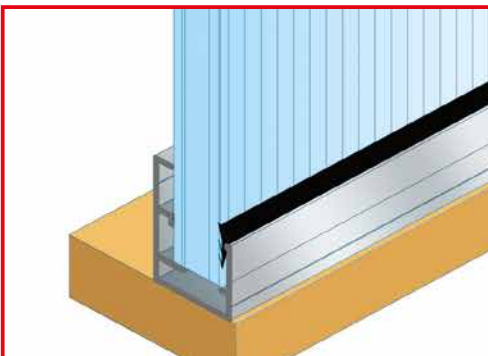


**SECTION with panels in thickness
16 - 20 mm**

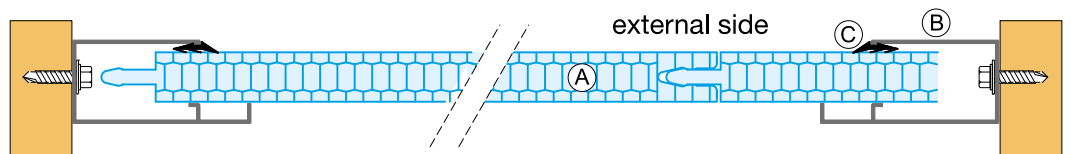
FIXING WITH TOP PROFILE PAN-X-120



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



SECTION with panel in thickness 40 mm

FIXING WITH TOP PROFILE M610



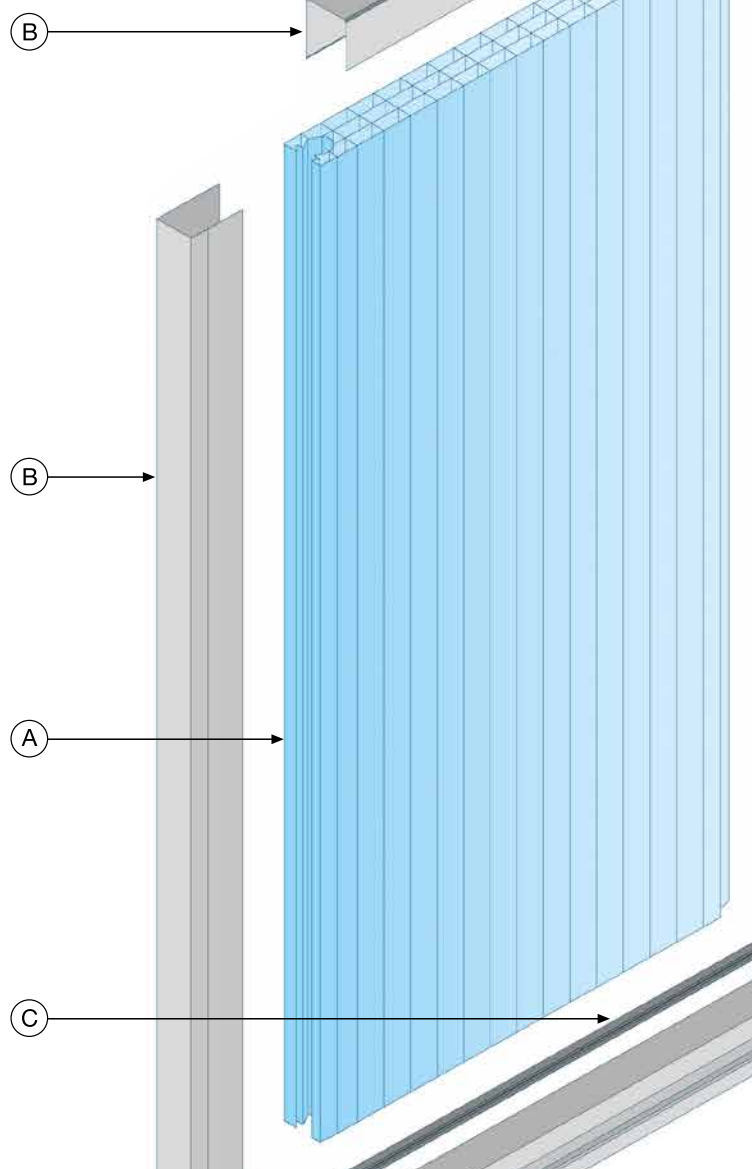
FIXING WITH BOTTOM PROFILE M622



FIXING WITH TOP PROFILE M615

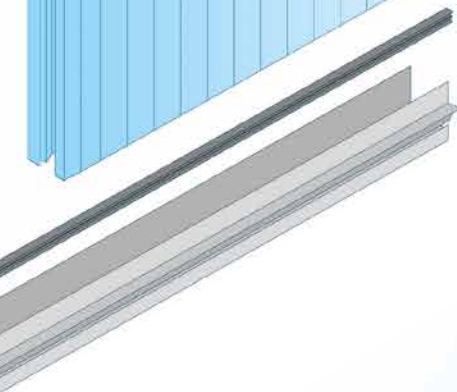
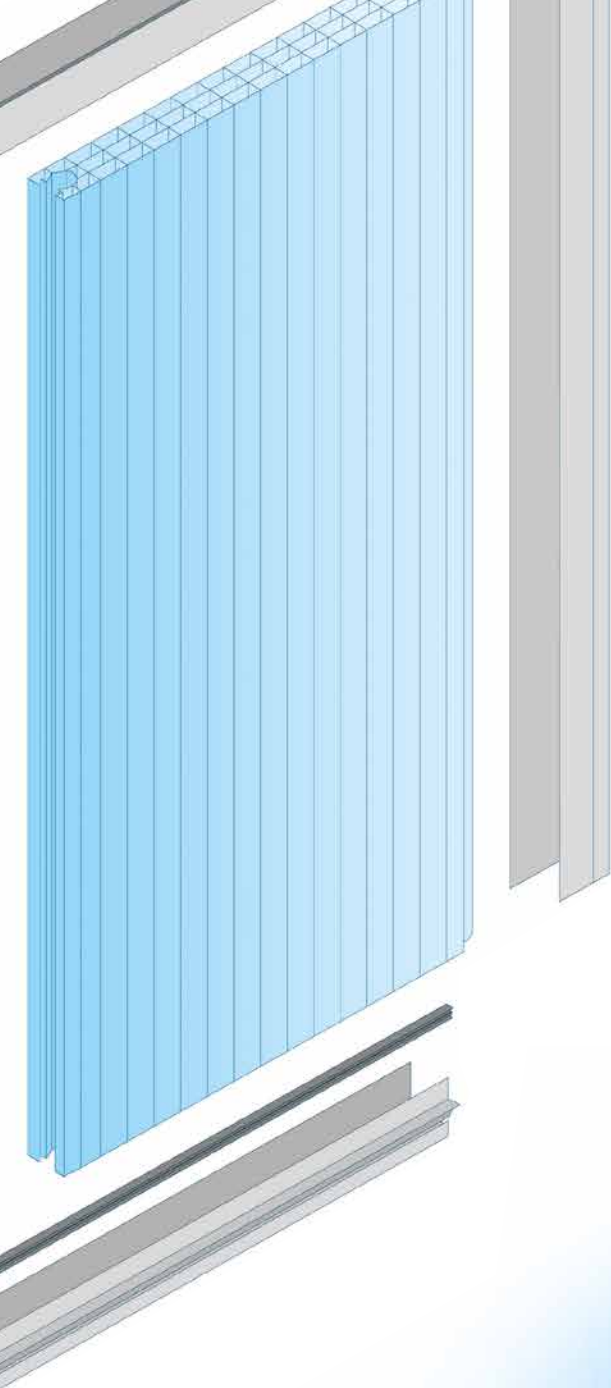


FIXING WITH BOTTOM SHED PROFILE M628

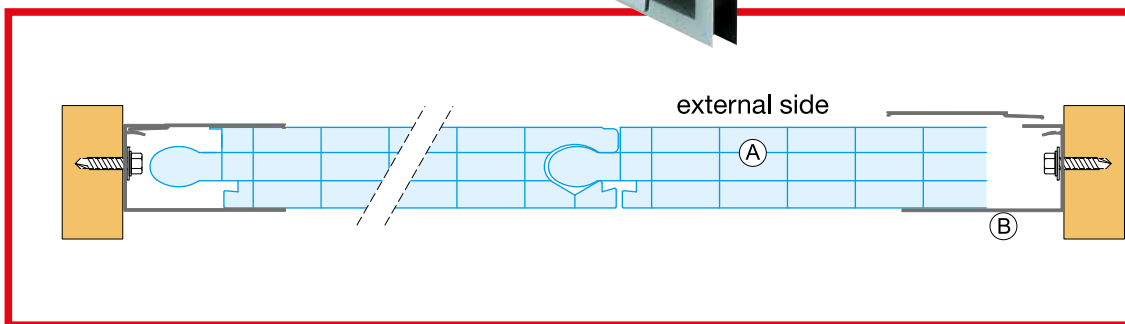


- (A) AKRAPAN Panel in UV-protected polycarbonate
- (B) Frame profile in aluminium
- (C) Gasket in EPDM for frame profile

TECHNICAL DATA	16/500 honeycomb	20/500 honeycomb	25/500 honeycomb	40/500 4 walls	40/500 7 walls	50/500 13 walls	60/500 13 walls	Unit	
Panel modular width	500 (± 5)							mm	
Panel thickness	16	20	25	40	40	50	60	mm	
No. of walls	[4]	[4]	[4]	4	7	13	13	no.	
Thermal transmission [U-value]	1,99	1,81	1,60	1,41	1,08	0,79	0,71	W/m ² K	
Light transmission	Transparent satinized (*)	~ 69	~ 67	~ 64	~ 53	~ 56	~ 40	~ 39	%
	Opaline White (*)	~ 52	~ 43	~ 35	~ 33	~ 36	~ 22	~ 16	%
<p>SPANS</p> <p>P = 500 N/m² (wind ≈ 100 Km/h)</p> <p>P = 800 N/m² (wind ≈ 130 Km/h)</p>	D max.	D max.	D max.	D max.	D max.	D max.	D max.	mm	
	1300	1400	1600	2200	2350	2900	3450	mm	
Thermal expansion	0,065							mm/m K	
Temperature range	- 40/+120							°C	
Fire classification EN 13501-1	B s1 d0								
(*) standard colours - other colours produced on request dependant on quantities									

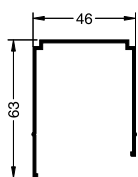


Aluminium window frame

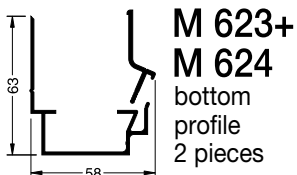


FRAME PROFILES

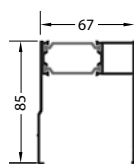
in anodised aluminium (bars length 6 m)



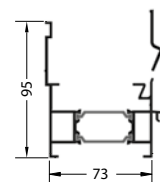
M 610
top profile



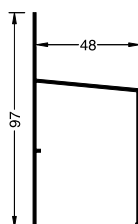
M 623+
M 624
bottom profile
2 pieces



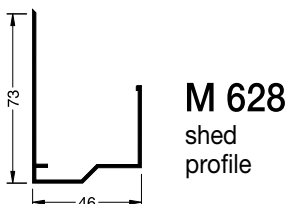
PAN-Y-60-10
top profile for 60 mm



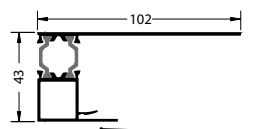
PAN-Y-60-20
+PAN-Y-00
bottom profile for 60 mm in 2 pieces



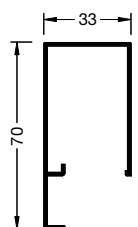
M 615
top profile



M 628
shed profile

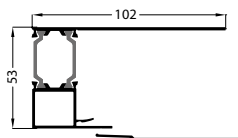


PAN-Y-40-30+
PAN-X-050
side profile for 40 mm in 2 pieces

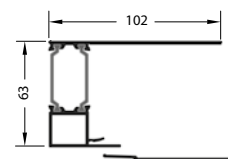


PAN-X-120
top and side profile for 16/20 mm

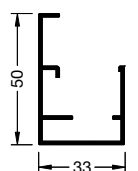
PAN-X-050
PAN-X-440
side profile 2 pieces



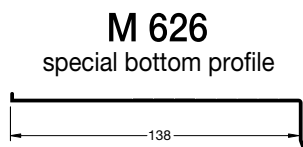
PAN-Y-50-30+
PAN-X-050
side profile for 50 mm in 2 pieces



PAN-Y-60-30+
PAN-X-050
bottom profile for 60 mm in 2 pieces



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



M 626
special bottom profile

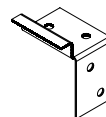
GASKET in EPDM



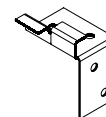
M767

for side profile

HOOKS in inox

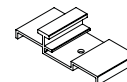


PAN-X-GAN-20

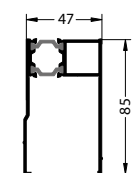


PAN-X-GAN-40

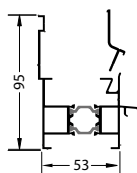
HOOK
in aluminium
for 40 mm



PAN-XZ01-40



PAN-Y-40-10
top profile



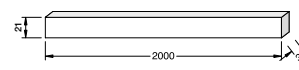
PAN-Y-40-20
+ PAN-Y-00
bottom profile for 40 mm in 2 pieces

GASKET in PE

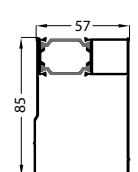


adhesive gasket **Y0030**
20x10 mm (rolls L = 10)

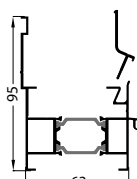
PE INLAYS



M727



PAN-Y-50-10
top profile



PAN-Y-50-20
+ PAN-Y-00
bottom profile for 50 mm in 2 pieces

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 25 mm thick panels