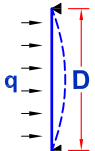
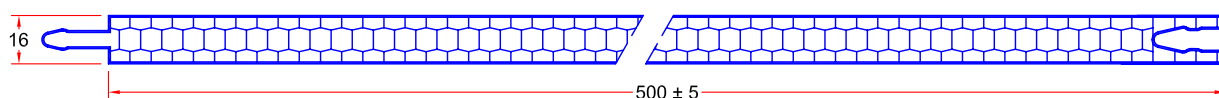
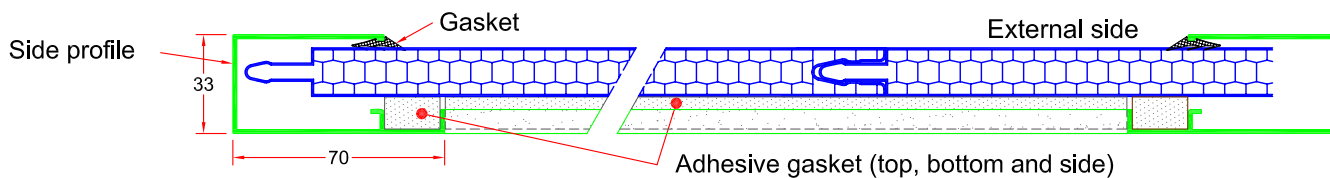


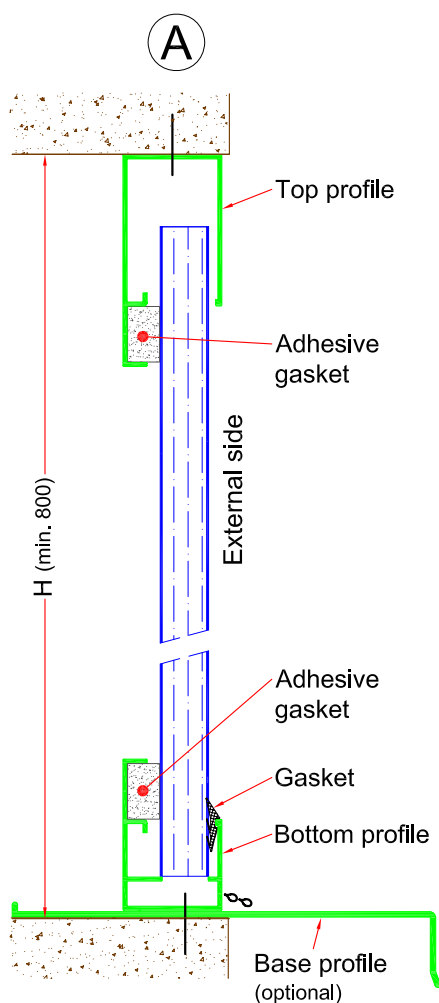
PANELS RANGE - UV Protected (for wall - northlight - window)

16/500 honeycomb	16	External side UV protected	500 ± 5	cells taped or thermosealed on request
20/500 honeycomb	20		500 ± 5	cells taped on request
25/500 honeycomb	25		500 ± 5	cells taped on request
40/500 4 walls	40		500 ± 5	cells taped on request
40/500 7 walls	40		500 ± 5	cells taped on request

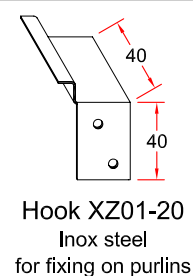
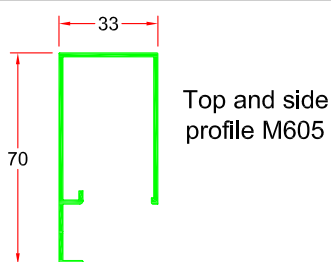
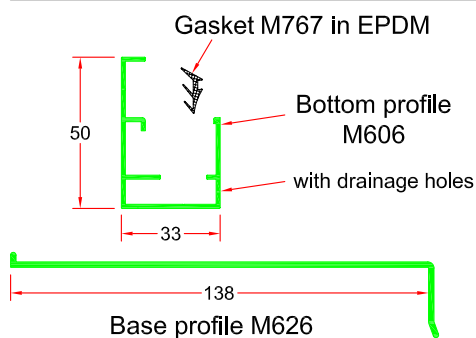
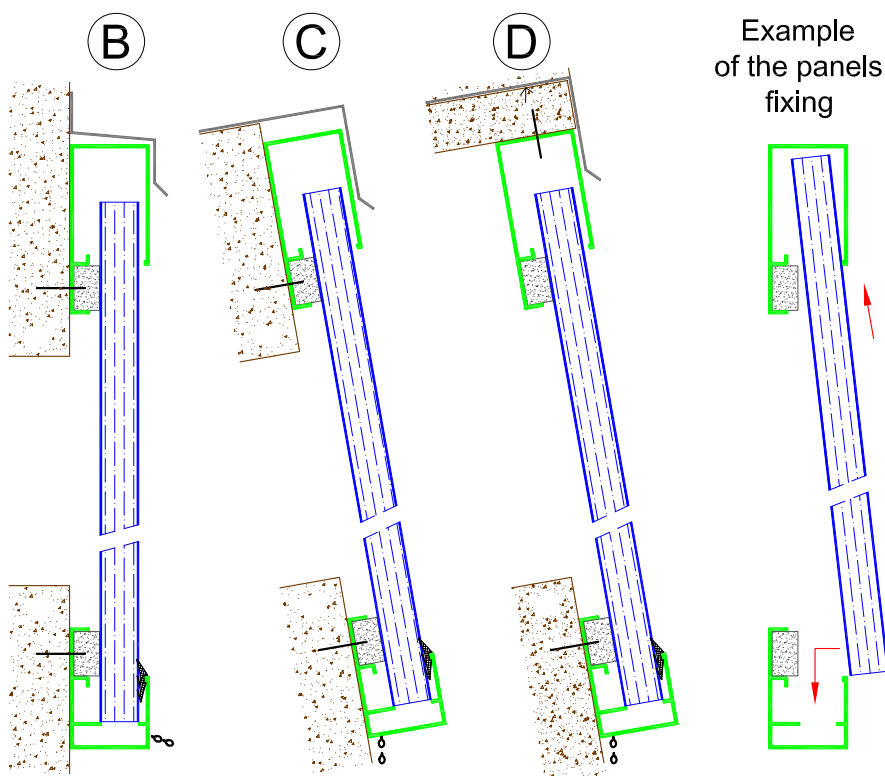
TECHNICAL DATA	16/500	20/500	25/500	40/500 4 walls	40/500 7 walls		
Panel modular width	500 ± 5					mm	
Pannel thickness	16	20	25	40	40	mm	
No. of walls	[4]	[4]	[4]	4	7		
Thermal transmission [U-value]	1,99	1,81	1,65	1,42	1,08	W/m²K	
Light transmission	Clear satinized (*)	~ 60	~ 54	~ 51	~ 65	~ 54	%
	Opaline (*)	~ 45	~ 35	~ 25	~ 25	~ 20	%
 SPANS q = 500 N/m² (wind ≈ 100 km/h) q = 800 N/m² (wind ≈ 130 km/h)	D max	D max	D max	D max	D max		
	1.300	1.400	1.600	2.300	2.350	mm	
	1.200	1.300	1.450	2.050	2.100	mm	
Thermal expansion	0,065					mm/m K	
Temperature range	-40 / +120					°C	
Fire classification EN13501-1	B s1 d0			B s2 d0			
(*) standard colours - other colours produced on request for quantities							

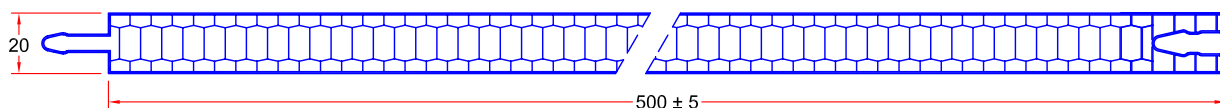

HORIZONTAL SECTION with framing profiles in anodised aluminium

VERTICAL SECTIONS with framing profiles in anodised aluminium

Wall application

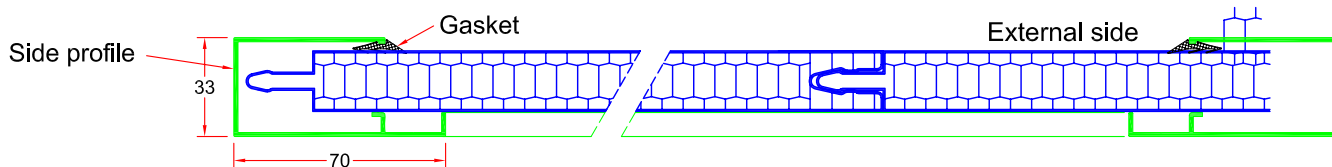


External applications - vertical and inclined



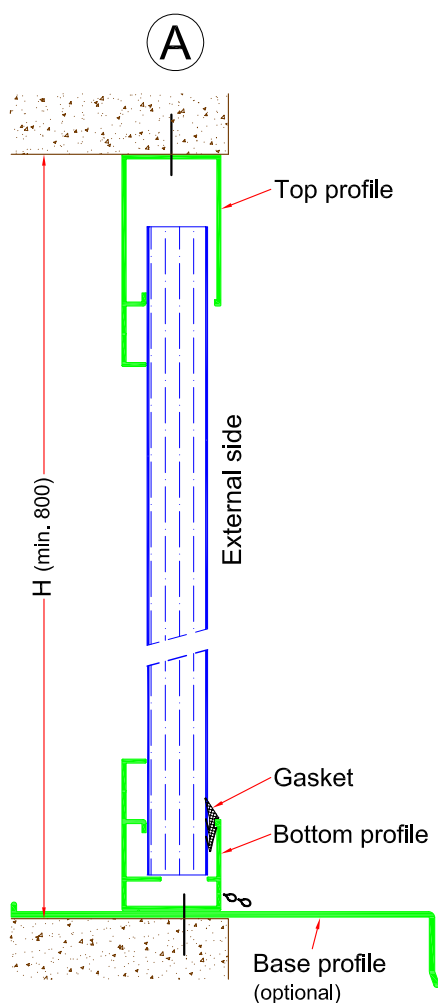


HORIZONTAL SECTION with framing profiles in anodised aluminium

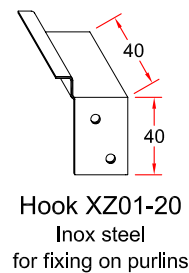
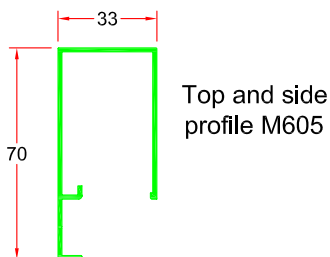
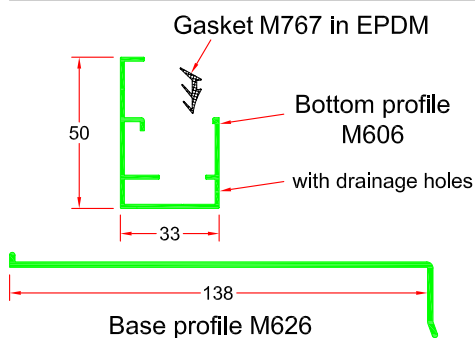
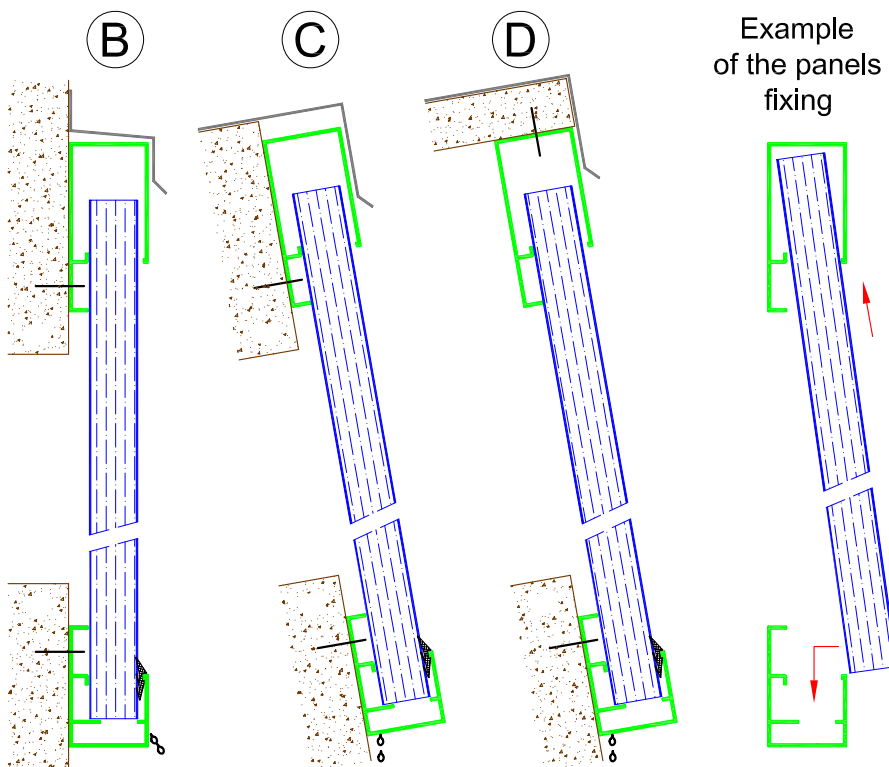


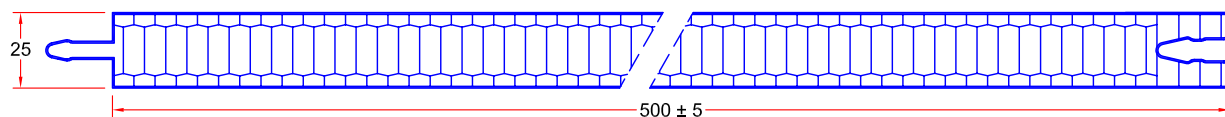
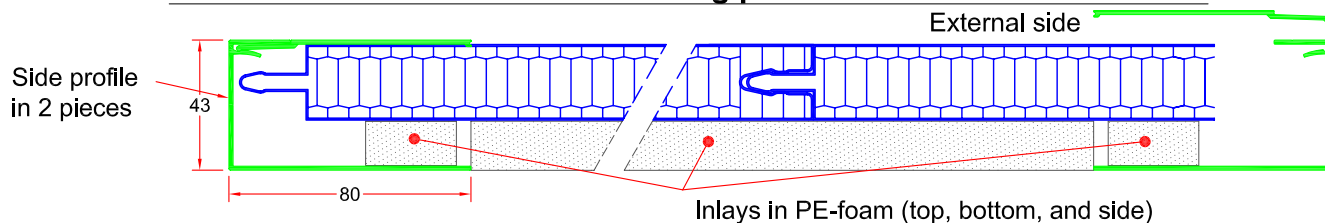
VERTICAL SECTIONS with framing profiles in anodised aluminium

Wall application

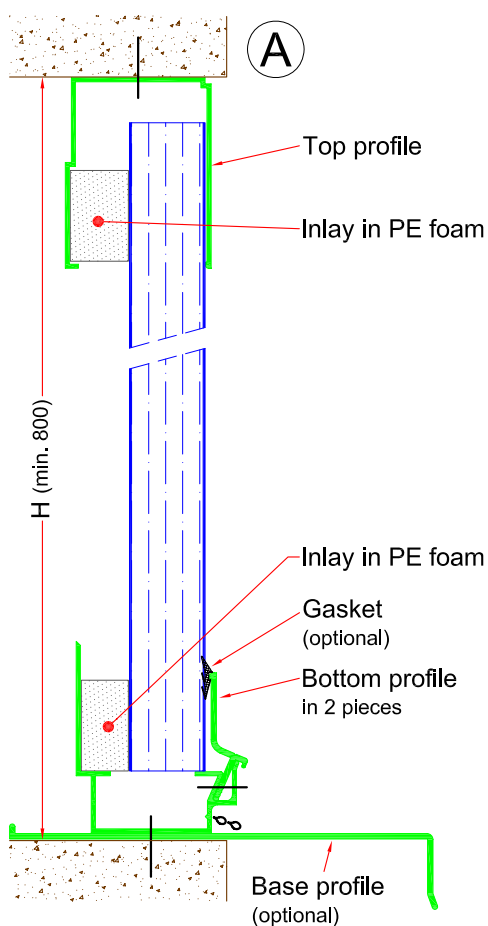


External applications - vertical and inclined

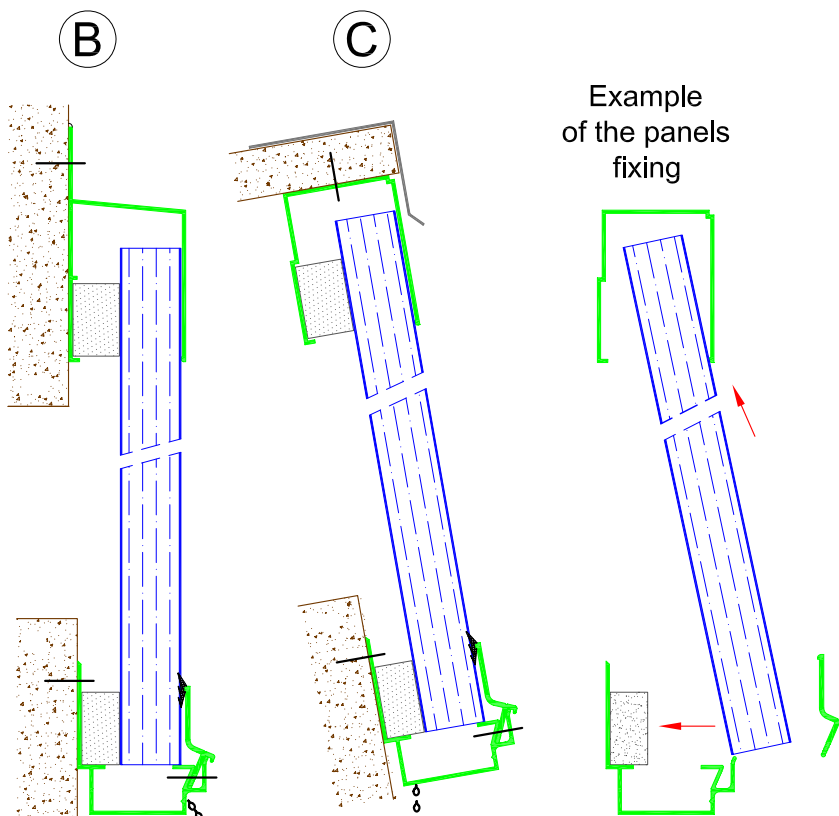
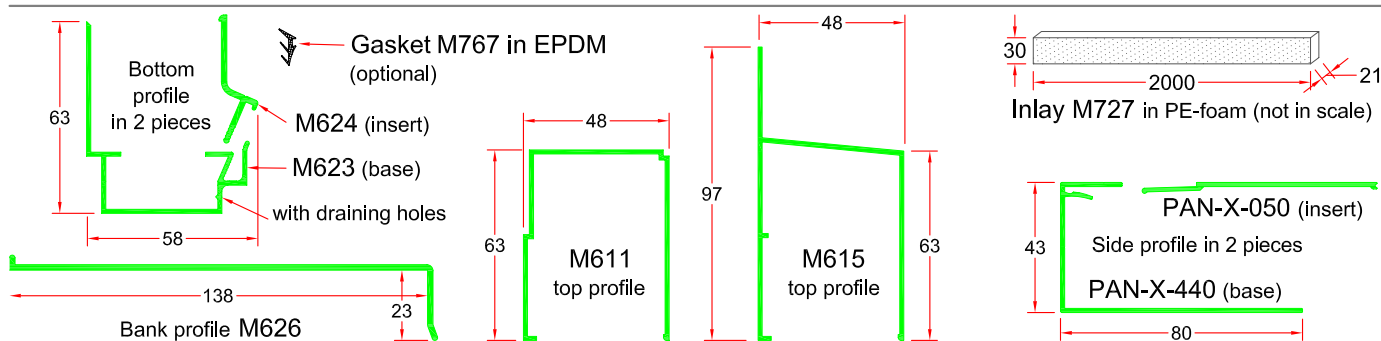


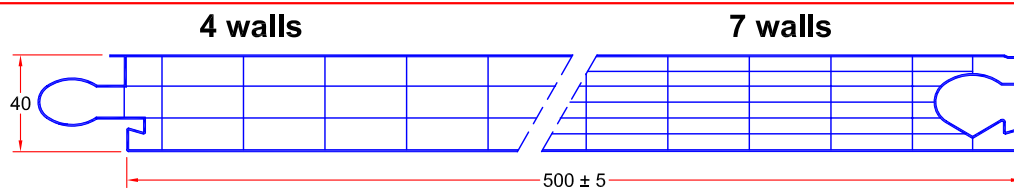
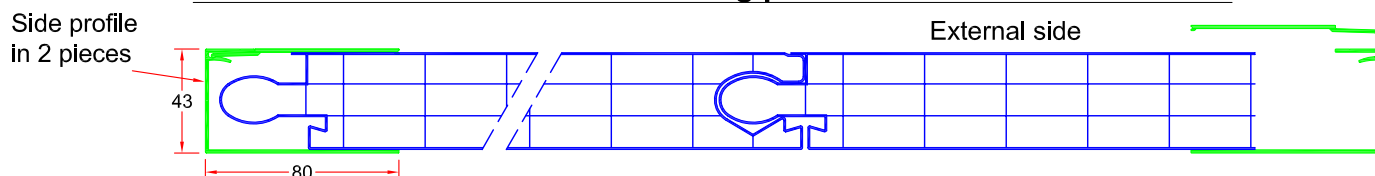
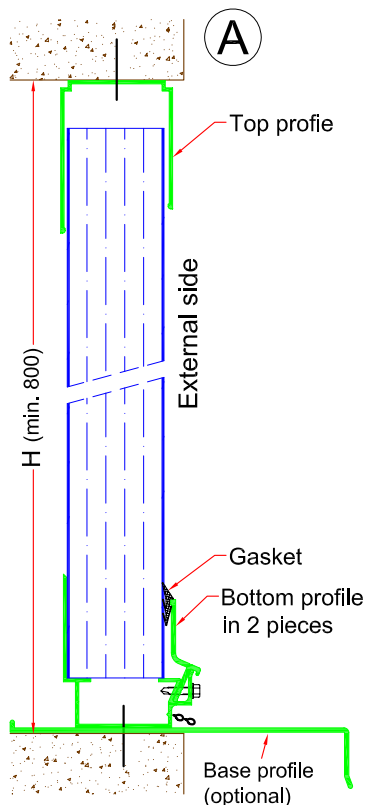
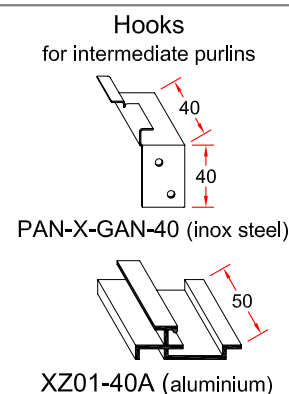
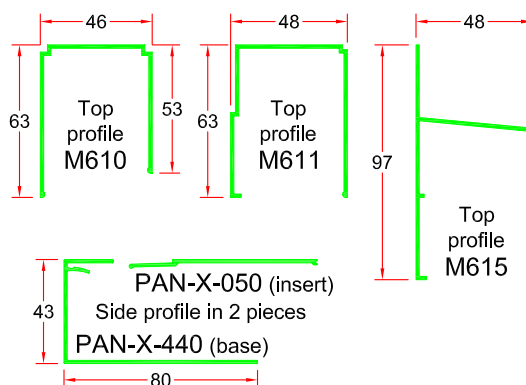
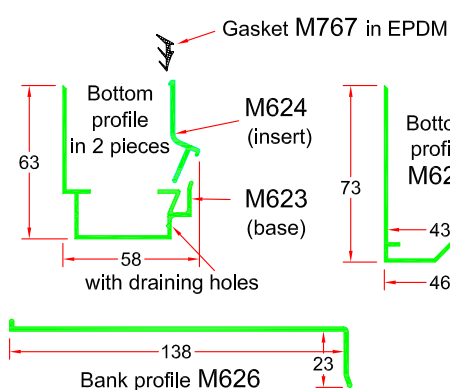
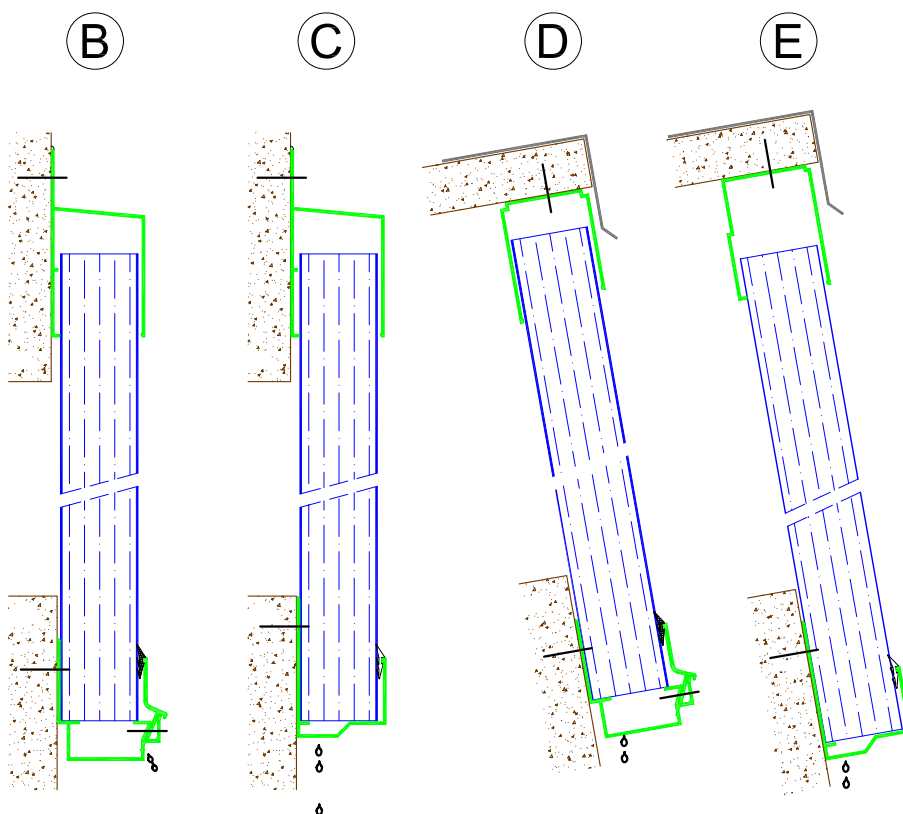

HORIZONTAL SECTION with framing profiles in anodised aluminium

VERTICAL SECTIONS with framing profiles in anodised aluminium

Wall application



External applications - vertical and inclined

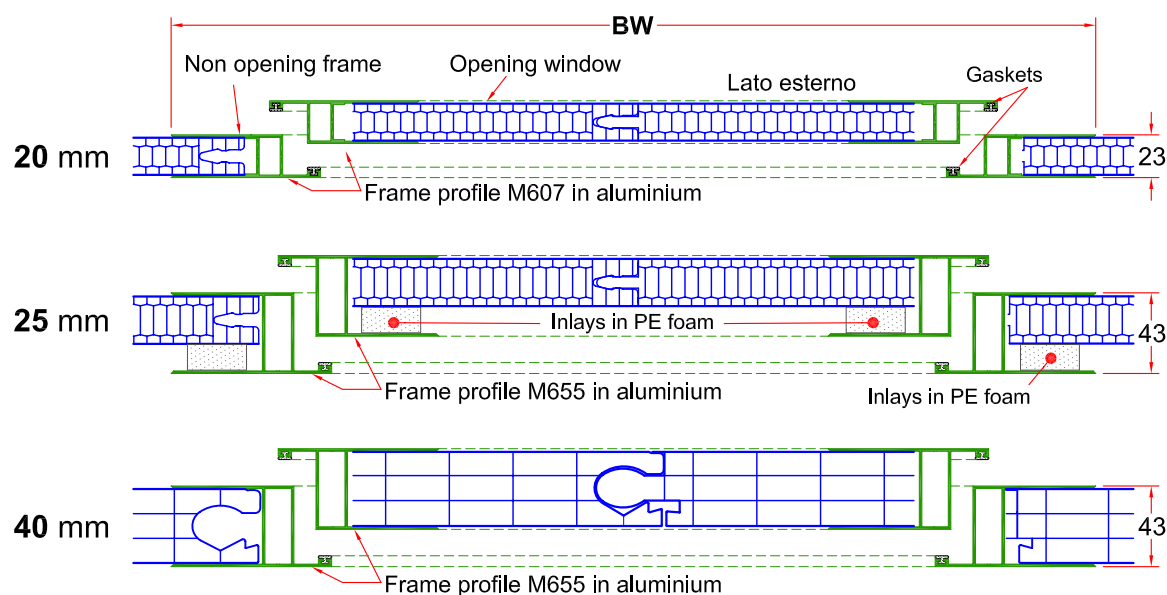

 Example
of the panels
fixing



HORIZONTAL SECTION with framing profiles in anodised aluminium

VERTICAL SECTIONS with framing profiles in anodised aluminium
Wall application

External applications - vertical and inclined


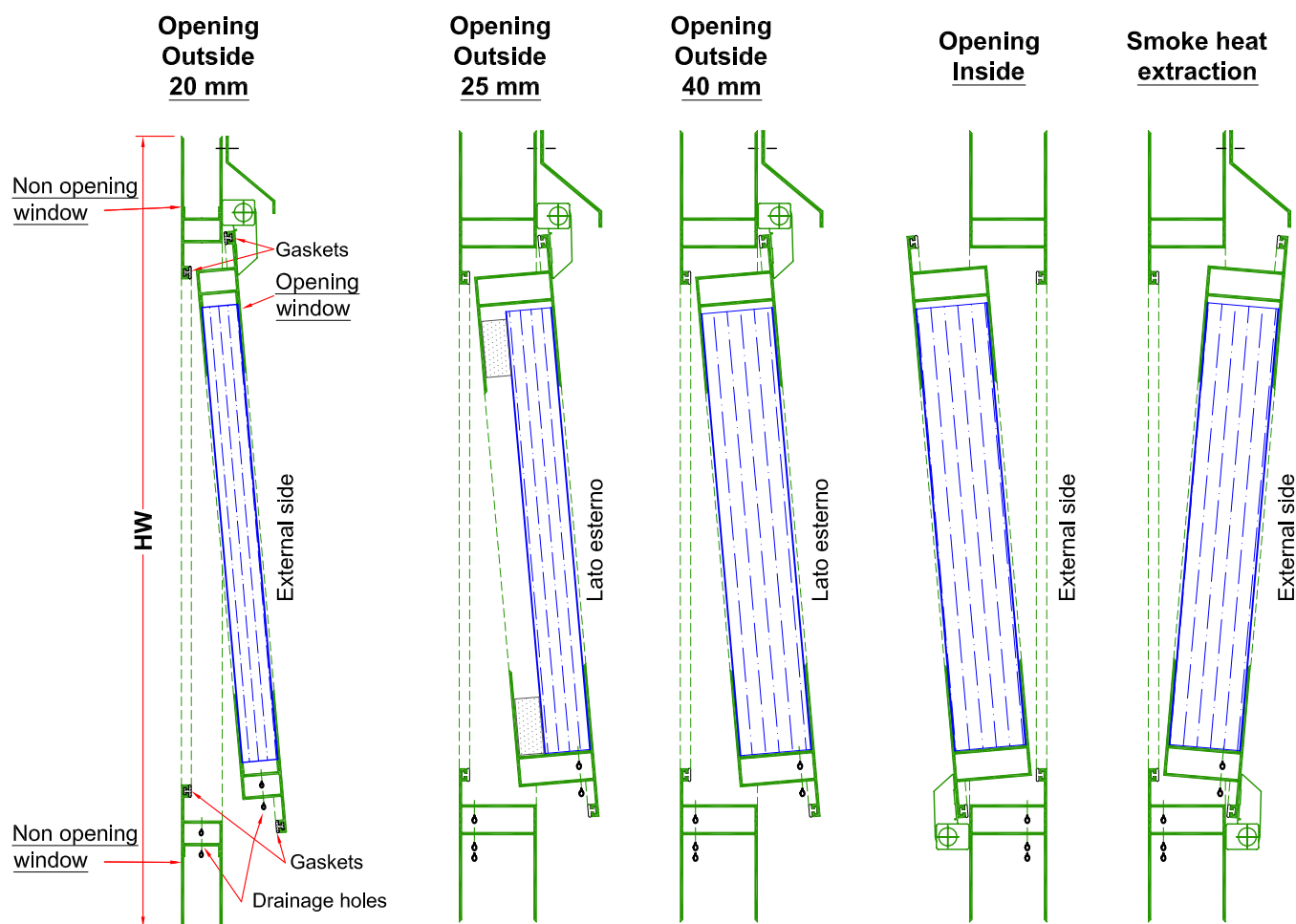
WINDOW FRAMES

Supplied assembled - size BW x HW on request - opening manual or motorized

HORIZONTAL SECTION (type opening outside) - profiles without thermal break (*)



VERTICAL SECTIONS - profiles without thermal break (*)



(*) **NOTE:** frames for 40 mm can also be made with thermal breaking profiles.

SPECIFICATION TEXT

Choose between alternatives marked by •

• Wall; • Northlight;

realised with modular system type **AKRAPAN** by Akraplast Sistemi, composed of:

- 1) UV protected multi-wall polycarbonate panels with lateral tongue and groove joint,
 - thickness 16 mm, modular width 500 mm, 4 walls honeycomb, thermal transmission $U=1,99 \text{ W/m}^2\text{K}$
 - thickness 20 mm, modular width 500 mm, 4 walls honeycomb, thermal transmission $U=1,81 \text{ W/m}^2\text{K}$
 - thickness 25 mm, modular width 500 mm, 4 walls honeycomb, thermal transmission $U=1,65 \text{ W/m}^2\text{K}$
 - thickness 40 mm, modular width 500 mm, 4 walls, thermal transmission $U=1,42 \text{ W/m}^2\text{K}$
 - thickness 40 mm, modular width 500 mm, 7 walls, thermal transmission $U=1,08 \text{ W/m}^2\text{K}$colour • transparent; • opal-white; • others
- 2) Profiles for perimeter framing in natural anodized aluminium; PE inlays, gaskets and what else is necessary for perfect tightness of the system.

WARRANTIES

The **AKRAPAN** panels for outside use are protected against UV-rays on the external side with co-extrusion process. In Europe they are covered by **10 YEARS 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.

CERTIFICATIONS

Regarding fire performance, the **AKRAPAN** panels have fire classification **EN13501 Bs1d0** or **BS2d0**. For further details, please ask for the respective certificates for the different countries.

POSITIONING, TOOLS and FIXING

Install the panels with the UV protected side towards the outside.

Respect the tolerances between top and bottom frame profiles because of the thermal expansion (3-4 mm/meter).

Usually the AKRAPAN panels are supplied with the borders sealed by a special aluminum tape, or (if requested) thermo-sealed.

For cutting on size can be used a circular saw with fine teeth or shears; remove chips and dust using compressed air and then close the cells with the special aluminum tape for polycarbonate.

If necessary please use only polycarbonate compatible silicon.

CARE and MAINTENANCE

It is recommended not to store the panels exposed at the sun or under inclement weather conditions without proper protection.

It is recommended to clean the panels regularly in order to remove dust and atmospheric pollution.

To clean the sheets use cold or lukewarm water and (if necessary) neutral detergents. Do not use abrasive cloths, hot water and chemical detergents. Avoid to clean the panels when they are heated by the sun.

RESISTANCE to CHEMICAL AGENTS

Please contact us to ask about compatibility with chemical agents.

TECHNICAL HANDBOOK

A **TECHNICAL HANDBOOK** is available with detailed technical information and examples about the following topics:
APPLICATIONS - ASSEMBLY INSTRUCTIONS

The use of the handbook is recommended for architects for elaboration of projects foreseeing application of the system, and for the companies doing the installation.

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 ensuring that the materials selected meet their requirements and the laws and regulations in force.
AKRAPLAST Sistemi SpA reserves the right to change specifications at any time.