TOPANEL®
THERMO-INSULATING PANELS

Romania, Rm. Vâlcea, Stolniceni, 63 Uzinei str, county. Vâlcea
EUID ROONRC.J38/410/2008 , TIN no/VAT RO23630951
Account: RO18RNCB0263113206060001 B.C.R. Valcea branch
Share capital 2.030.200 RON, Phone / fax : +40 250.77.30.30

INSTRUCTIONS
- SMOKE VENTS -

GUIDE FOR MANDATORY MAINTENANCE OF SMOKE VENTS (EFC)						
DESCRIPTION OF VERIFICATIONS	≥24 MONTHS	Every 2 years	Every 3 years	Every 4 years	Every 5 years	Replacement period
Verify the EFC integrity	GUARANTEE PERIOD + PERIOD WITHOUT MAINTENANCE	•	•	•	•	Every year
Keeping the EFC open, dismantle and weigh the CO2 cylinder, while checking the weight parameters. The loss of energy should range within the established values; otherwise, replace it.		•	•	•	•	Every year
Keeping the EFC open, unscrew the hot melt ampoule holder screw and check the triggering of the piercing needle.		•	•	•	•	Every year
Keeping the EFC open, unscrew the valve cover, completely unscrew the ampoule holder support, remove the bow and the needle. Check their condition and the degree of lubrication: they should not present traces of rust.		•	•	•	•	Every year
The actuation of the automatic system of several EFC vents – minimum 2 vents or 10% of the total – with annual rotation, through fire simulation.		•	•	•	•	Every year
Replace the CO2 cylinders.		•		•		Every 2 years
Replace the hot melt ampoules.		•		•		Every 2 years
Replace the thermal valve bow.			•			Every 3 years
Replace the pyrotechnic actuator.			•			Every 3 years
Verify the integrity of symbols and plates applied to the EFC.		•	•	•	•	Every year
AFTER THE COMPLETION OF THE VERIFICATION OPERATIONS, PUT THE EFC VENTS IN FUNCTION AGAIN.						

NOTES: UPON EFC OPENING IN CASE OF FIRE, PERFORM THE INTERVENTION IMMEDIATELY.

The service of products will be carried out during the guarantee period by the Seller's approved partners.

INSTRUCTIONS
- EFC/canopies/skylights -

When storing the products (canopies/skylights), it is important to place shorter panels on top of longer panels and make sure that they are placed on an equal flat surface. It is recommended to store the panels in a cold and dry area, away from direct sunlight (if the products are stacked together, each panel layer acts like an eyeglass under the sunlight, phenomenon which can lead to the deformation of panels).

For the manual handling of panels (EFC/canopies/skylights), lift the panel from the package by avoiding contact with the panel underneath. Manual transportation will be performed by at least 2 individuals, depending on the length of the panel, by lifting the sides of the panel and avoiding contact with the ground and/or with the roof structures. It is forbidden to fold the panel and/or to use sharp or rough objects/materials during handling, transportation or fitting.

Do not leave the panels non-attended and unsecured on a roof structure before installation.

Never step directly on the polycarbonate component of the product, even when fastened. Use scaffolds, ladders or access panels with crawlers.
Make sure that you are aware of the degree of loading with respect to the products selected function of the structure layout. You will not be allowed to reject the delivery and/or to return the products if they no longer correspond with your needs/projects/investments and/or if they were not correctly identified/requested when placing your order and/or were erroneously foreseen by the specialist (designer/architect etc.), including in terms of quality.

To clean the products, use a solution made of soap or mild cleaner and water. Use a soft cloth or a cellulose sponge and rinse thoroughly with clear water. To prevent water stains, use them with a damp cellulose capsule or sponge.
Never use abrasive cleaners, abrasive plates or rough materials.
Do not remove the dirt by scraping with a sharp tool.
Do not clean with window cleaners or powerful solvents like petrol, alcohol, carbon tetrachloride or acetone.

Please follow the instructions below:

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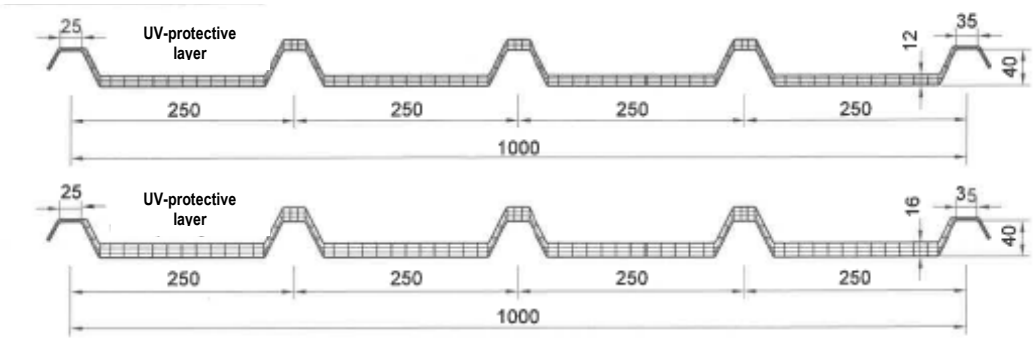
TECHNICAL DATA

PANEL SECTION



TECHNICAL DATA		
Panel thickness	12 mm	16 mm
Number of folds	5	
Distance between folds	~250 mm	
Panel width	1000 ±5 mm (panel width)	
Standard panel length	8000 mm	
Custom panel length	max. 13500 mm	
Standard size of lateral bends	25 - 35	
Custom size of lateral bends	depending on the client's specifications	
Panel bending	R= ~3500 mm - ~6000 mm	
Colour	neutral translucent opalescent	
Weight	2.6 kg/m^2	2.8 kg/m^2
UV protection	outer coextruded layer	
Closure at ends	hot melt	
Fire standard EN 13501-1	B s1 d0 (Italy-Class 1)	
Light transmission	neutral ~71% opalescent ~52%	neutral ~67% opalescent ~36%
Thermal transmission [U]	2.35 W/m^{2}K	2.02 W/m^{2}K
Thermal extension	0.065 mm/m^{2}K	
Thermal resistance	-40/+120^{0}C	

SPECIFICATIONS

(Choose from the versions marked with *)
• Flat skylight; • Hip roofs; • Curved roof;
made of alveolar polycarbonate insulation panels with UV protection and hot melt laterals, type GBA Plastik CUTA 5

- thickness: 12 mm, 1000 mm module, 4 walls, thermal transmission U=2.35 W/m^{2}K
- thickness: 16 mm, 1000 mm module, 4 walls, thermal transmission U=2.02 W/m^{2}K

colour: • neutral; • opalescent white; • other colour: ……

gasket seals and other necessary materials for the perfect sealing of the perimeter

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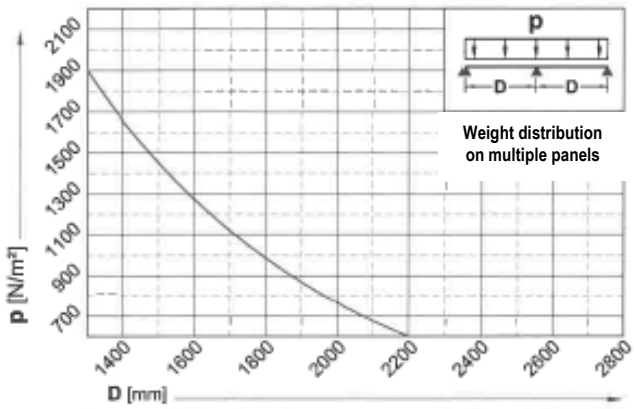
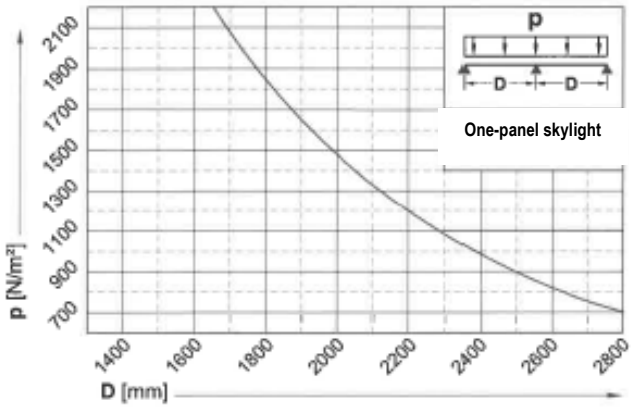
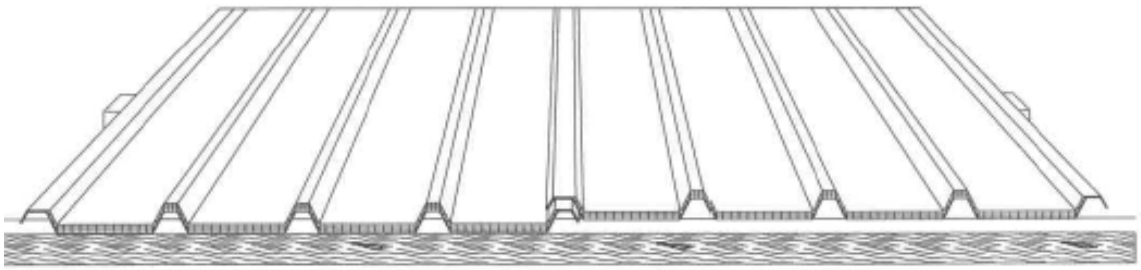
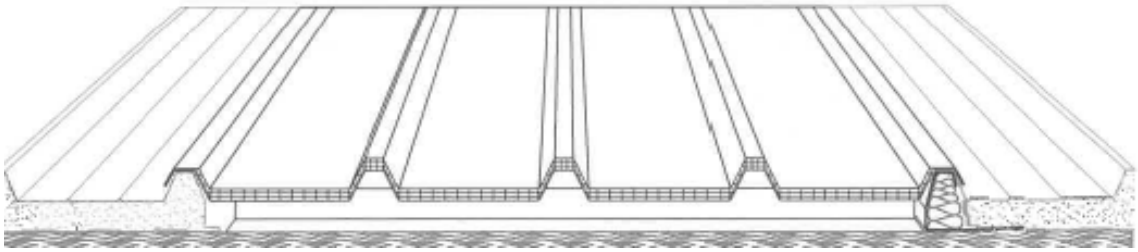
ADMISSIBLE LOADS

UNIFORMLY DISTRIBUTED MAXIMUM ADMISSIBLE LOADS









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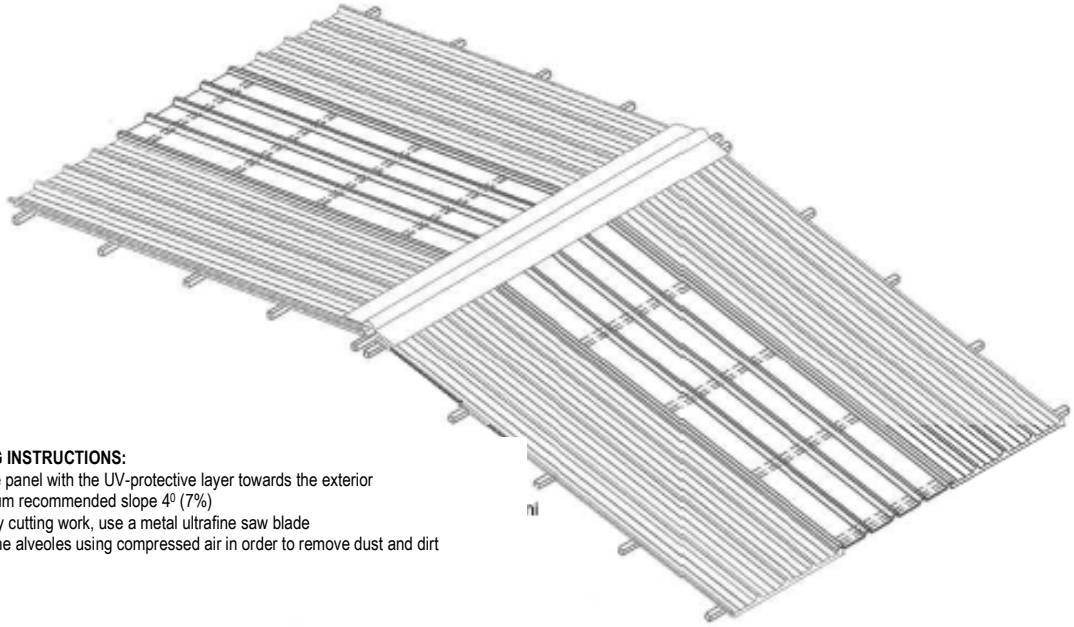
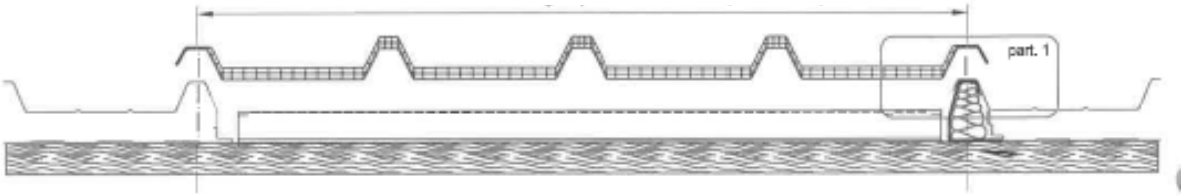
SKYLIGHT FROM THE CREST DOWN TO THE GUTTER

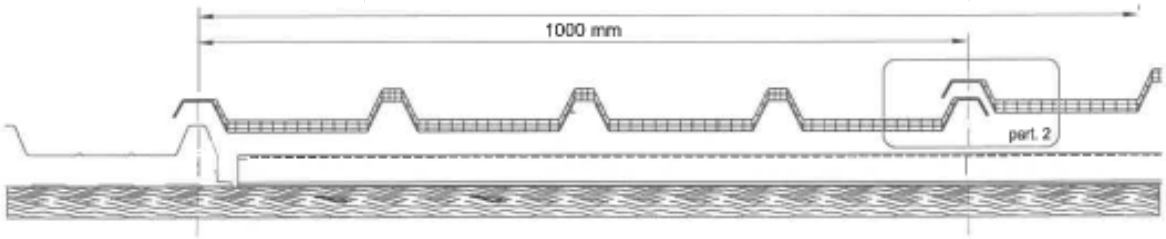


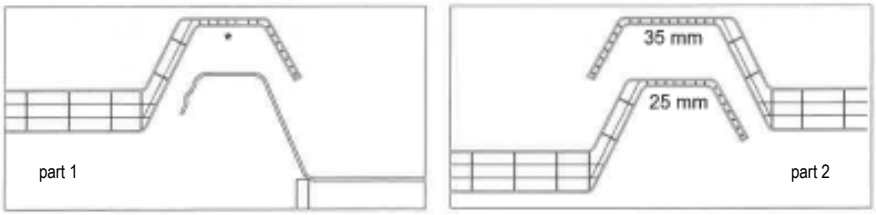
FITTING INSTRUCTIONS:
- Put the panel with the UV-protective layer towards the exterior
- Minimum recommended slope 4^0 (7%)
- For any cutting work, use a metal ultrafine saw blade
- Blow the alveoles using compressed air in order to remove dust and dirt

Skylight made of a single CUTA 5 panel (1000 mm)



Skylight made of several CUTA 5 panels (1000 mm* N* panels)





*** modifiable width for perfect panel joining**

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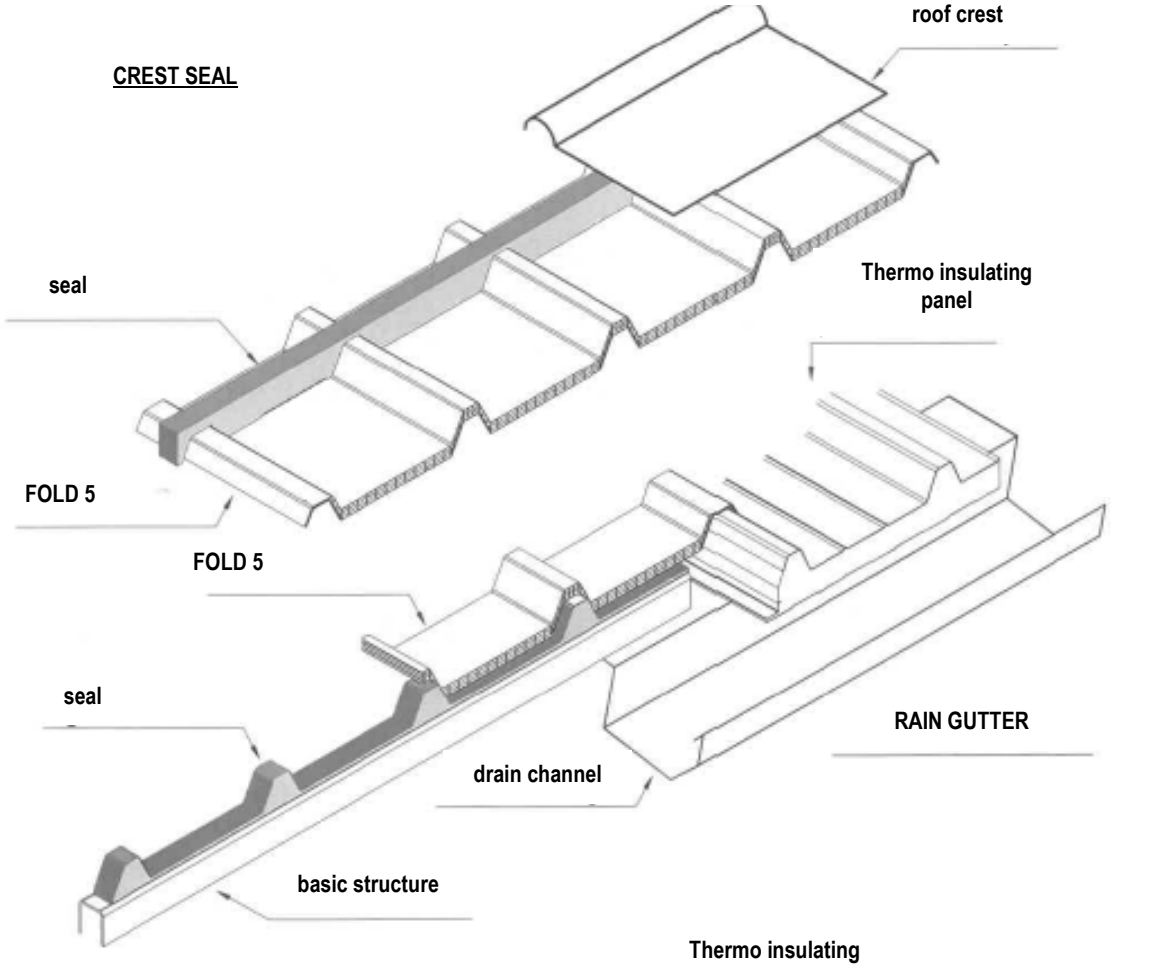

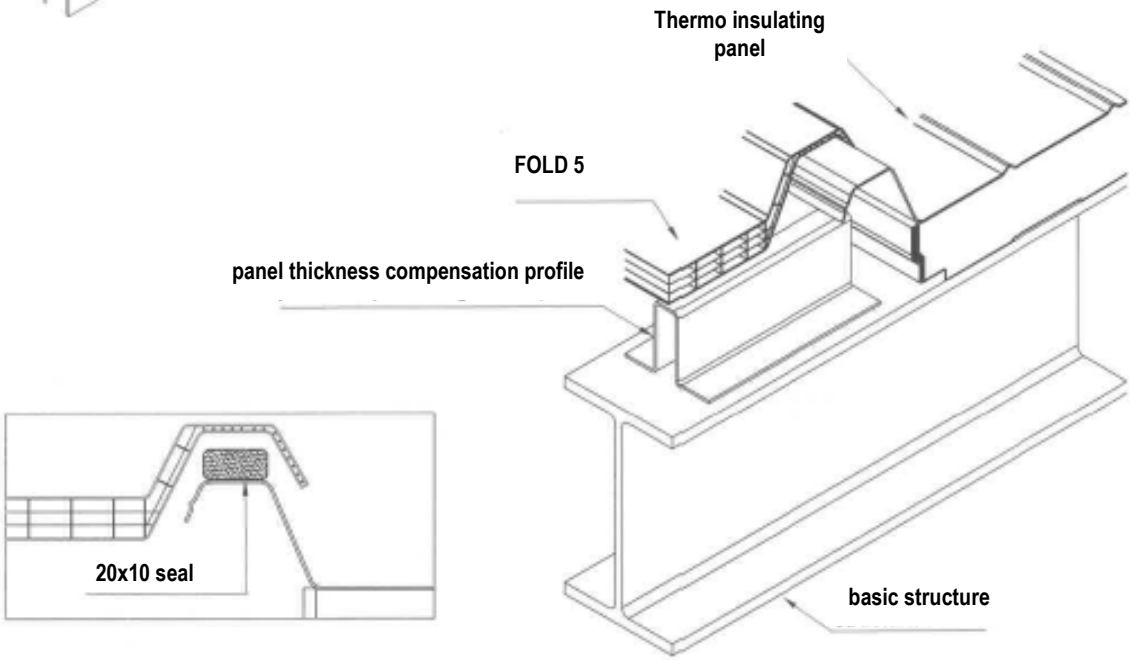

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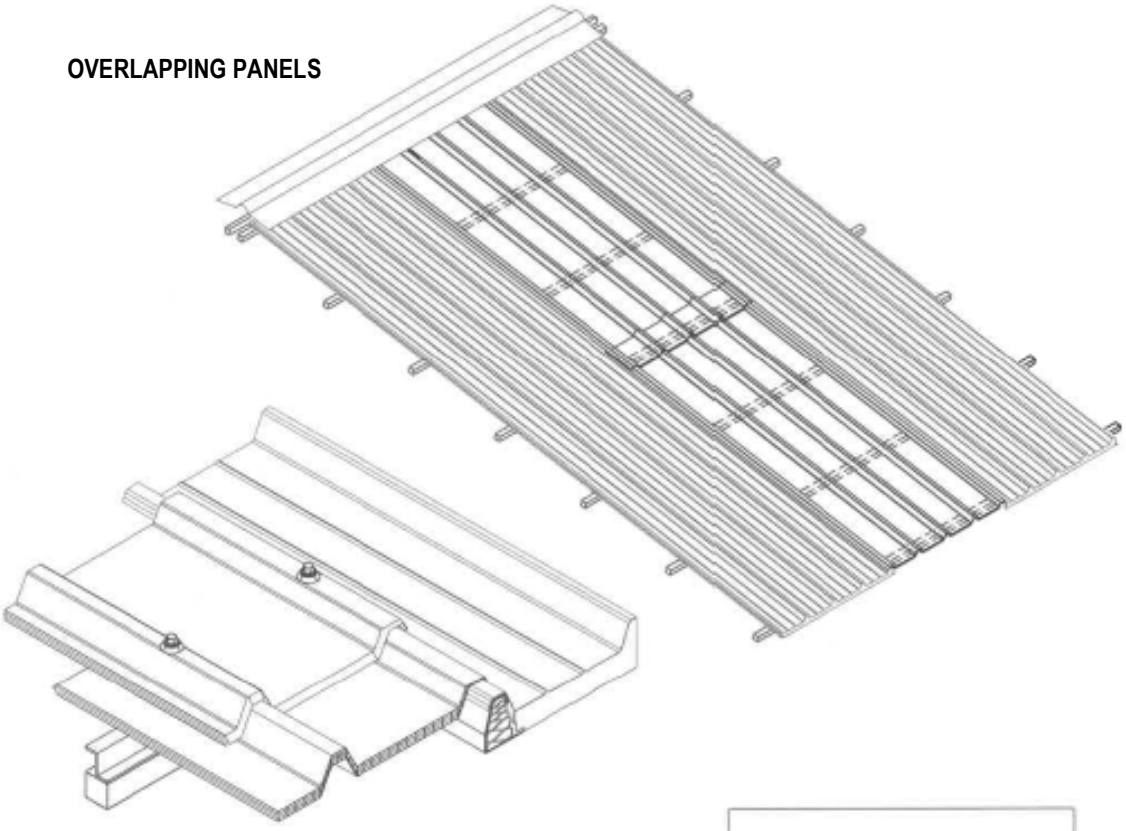
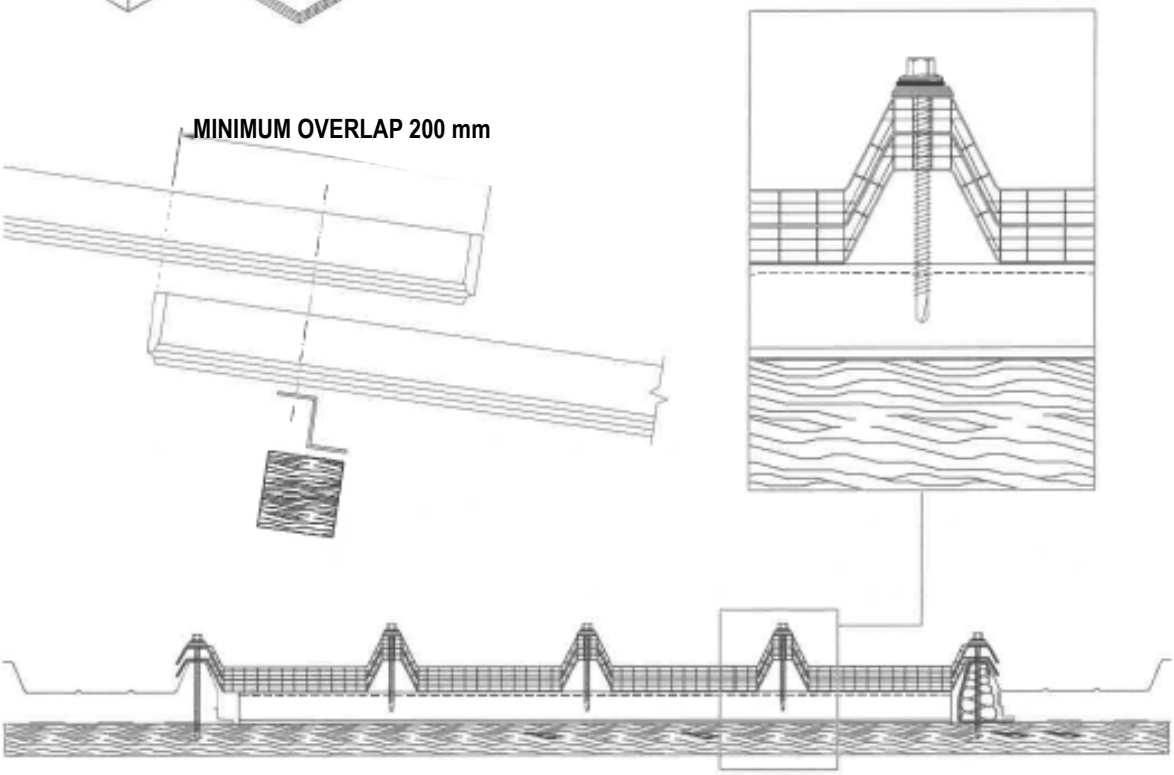
SKYLIGHT FROM THE CREST DOWN TO THE GUTTER

OVERLAPPING PANELS



MINIMUM OVERLAP 200 mm



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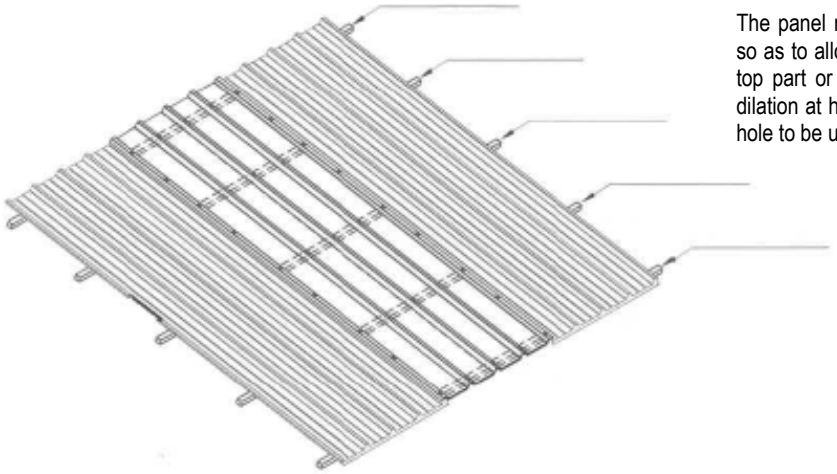
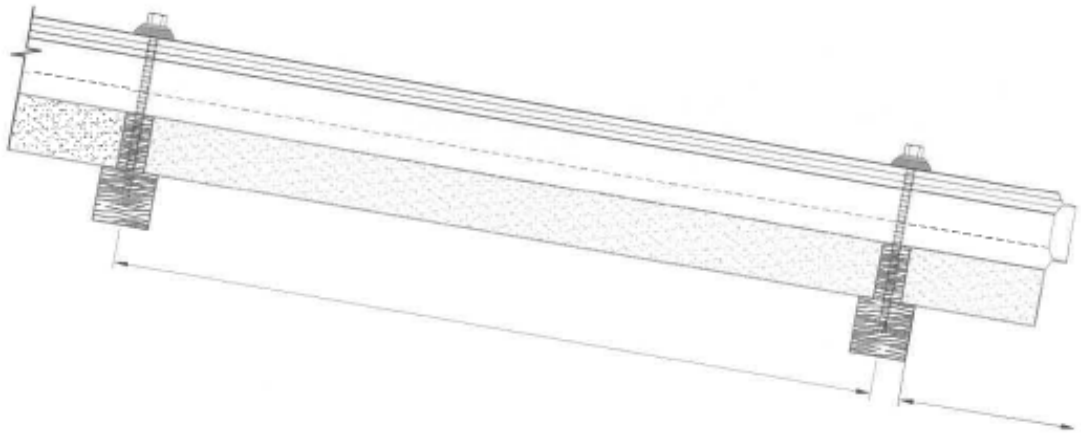
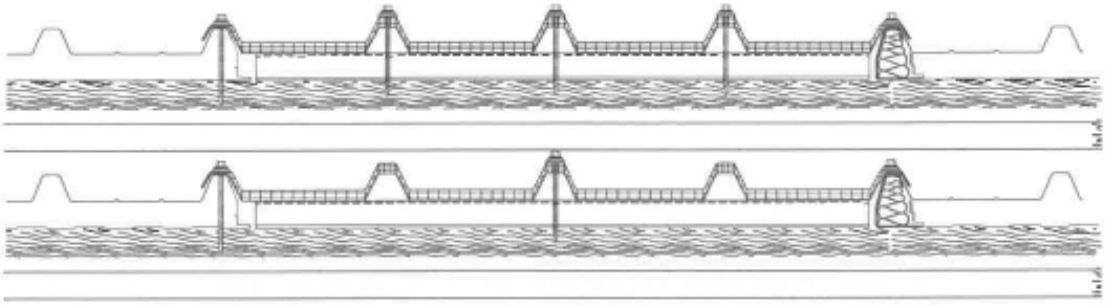
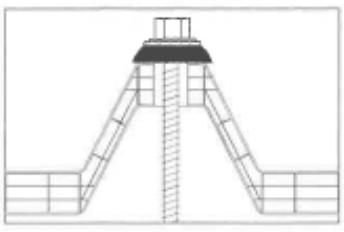
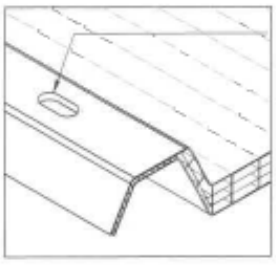


The panel needs fastening in the central part, so as to allow the panel extension towards the top part or the bottom part, extension due to dilation at high temperatures. Do not cover the hole to be used for fastening.









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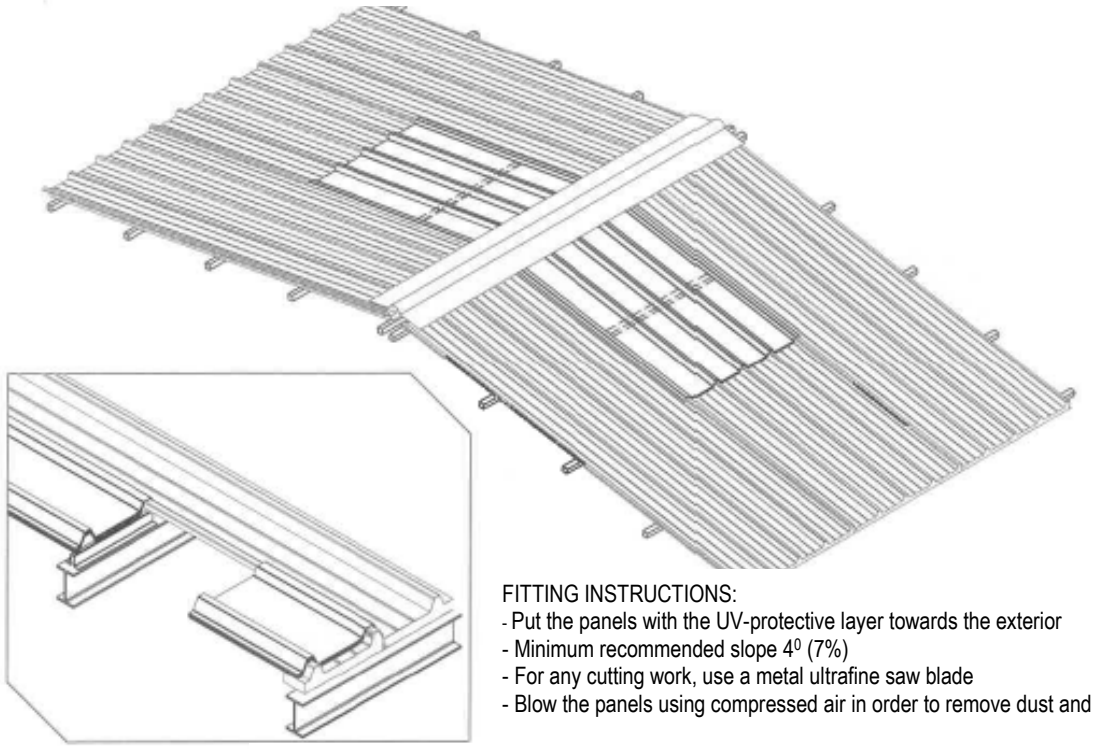
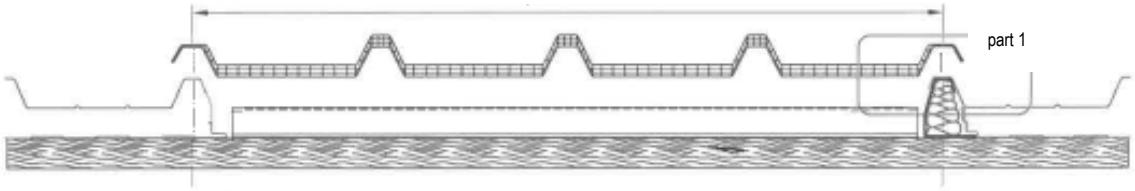
SKYLIGHT FROM THE CREST TO HALFWAY DOWN THE ROOF

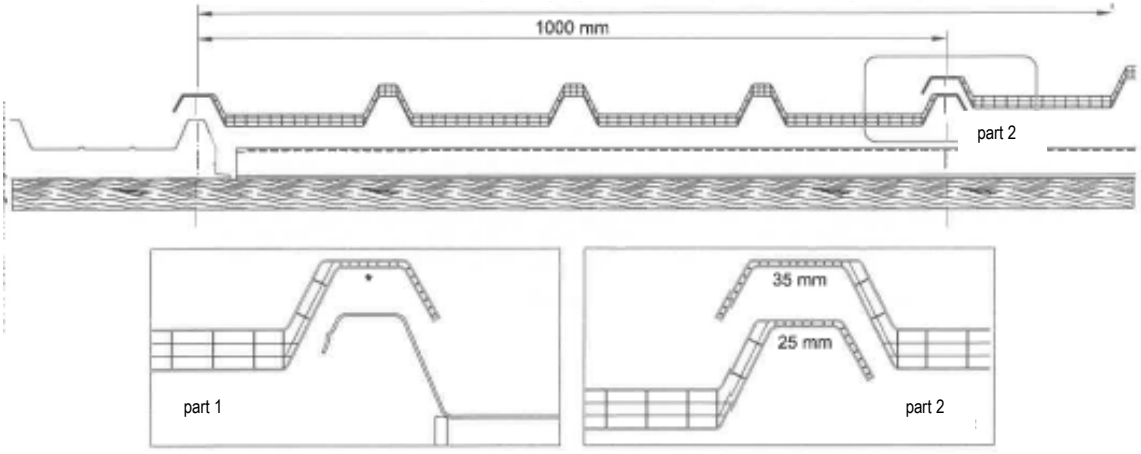


FITTING INSTRUCTIONS:
- Put the panels with the UV-protective layer towards the exterior
- Minimum recommended slope 4^0 (7%)
- For any cutting work, use a metal ultrafine saw blade
- Blow the panels using compressed air in order to remove dust and dirt

Skylight made of a single CUTA 5 panel (1000 mm)



Several overlapping CUTA 5 panels (1000 mm x N* panels)



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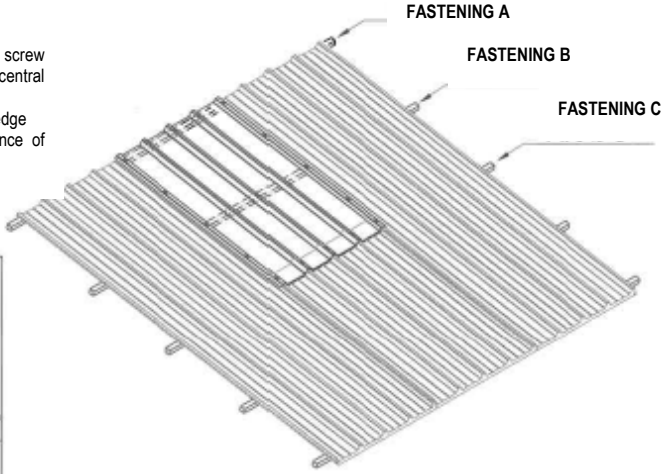
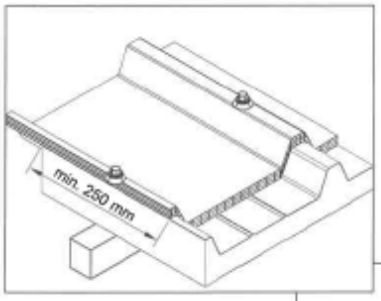
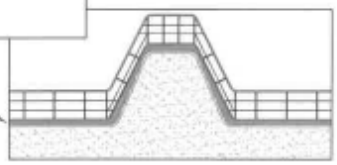
SKYLIGHT FROM THE CREST TO HALFWAY DOWN THE ROOF

FITTING INSTRUCTIONS:
- Use screws with special washers and covers
- The hole diameter should be greater than the screw diameter, to allow thermal extension (except for the central fastening – FASTENING B)
- Perform the fastening so as to correspond to each edge
- Perform the intermediary fastening from a distance of around 80 cm



Overlapping of FOLD 5 and the thermo insulating panel

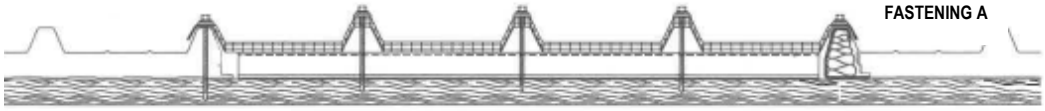




compensation seals

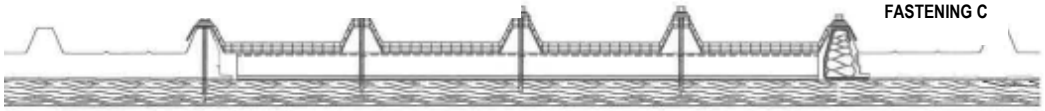
FASTENING B:
Fasten the panel in the central area in such a way as to allow the panel extension upwards and downwards under thermal extension conditions.
Do not cover the holes to be used for fastening.

Fastening on the crest wedges



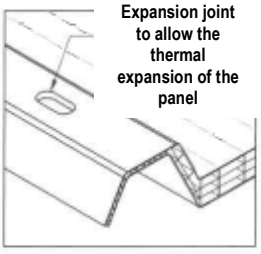
Fastening on intermediary wedges

Fastening by overlapping with the thermo insulating panel



CAP FASTENING

BAZ WASHER SCREW FASTENING



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