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Professional Products and Systems for Translucent Roof and Facade Cladding



GRECALUX

Multiwall Trapeze Polycarbonate Panel

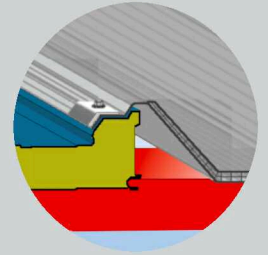
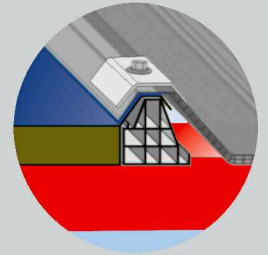
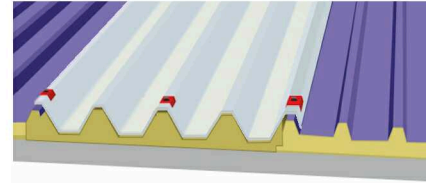
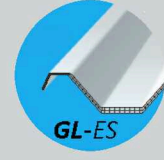
Grecalux multiwall pc panels with UV protection are formed as isosceles trapezoids and have the properties of high load resistance, thermal insulation and light transmission. For being applicable to the both systems that are in the sandwich panel market (with cap or overlap), Grecalux pc panels are produced with two different wing types for easy and safe installation to both systems. Through superior production technology thicknesses from 8 mm up to 16 mm can be produced and installed easily to the sandwich panels that have different thicknesses. To prevent dust from getting inside the cells and the esthetical degeneration and light transmission loss caused by it, Grecalux pc panels have been produced with their edges closed. Large areas of roof and walls can be covered easy with Grecalux panels. Easy connection details of the system that lengthwise and lateral overlapping up on each other are ensure a big advantage to cover large areas of roof and wall without any connection accessories.

Application Areas

- Rooflights in combination with roof sandwich panel
- Roof and facade cladding
- Industrial building
- Refurbishment building

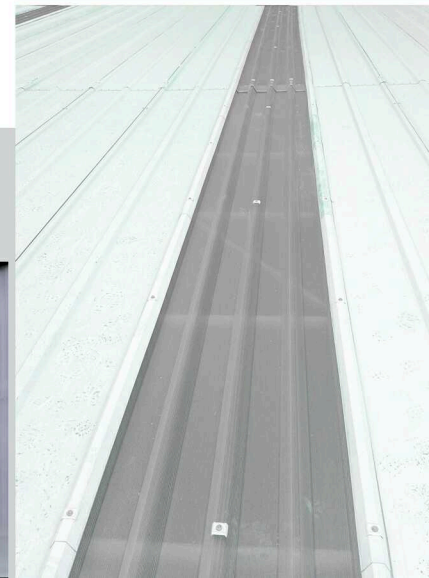
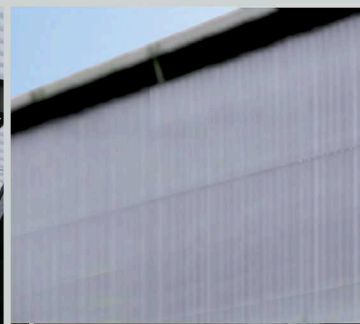
Advantages of Grecalux

- High light transmission
- Variety of colours
- Excellent heat-insulating
- High fire resistance
- UV protection
- 10 warranty
- 200 times tougher than glass
- Easy and safe system

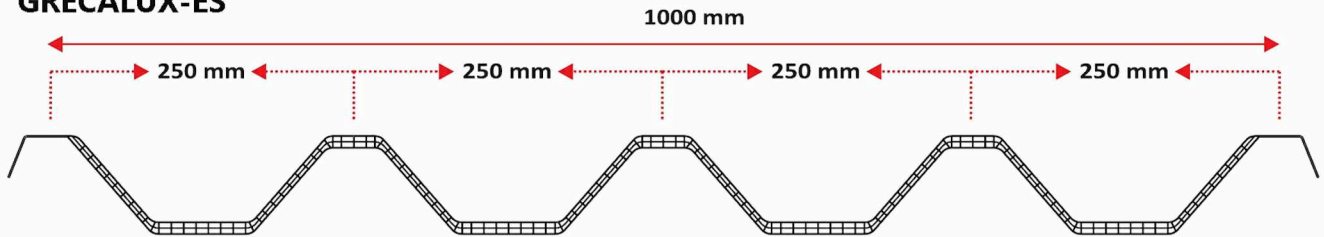


The Products and Systems of Polinet

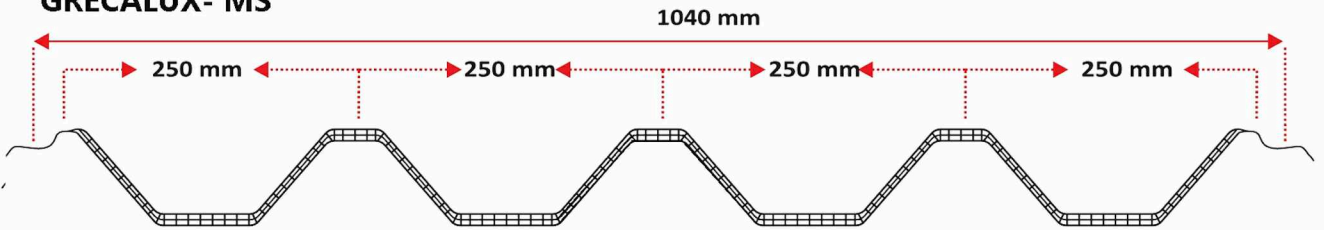
Reflect Daylight and Sky Colours Perfectly to Architectural Size



GRECALUX-ES

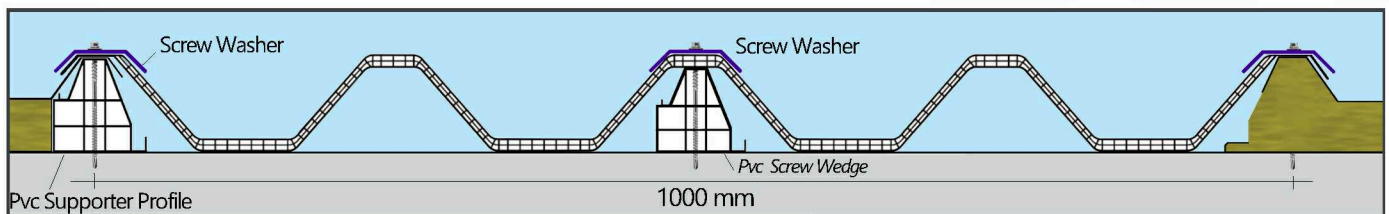
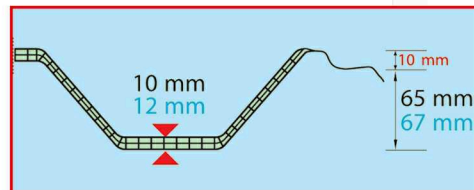
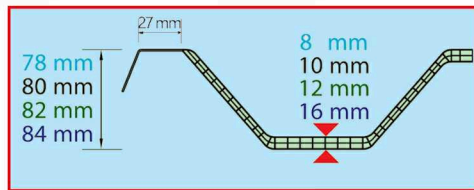


GRECALUX-MS

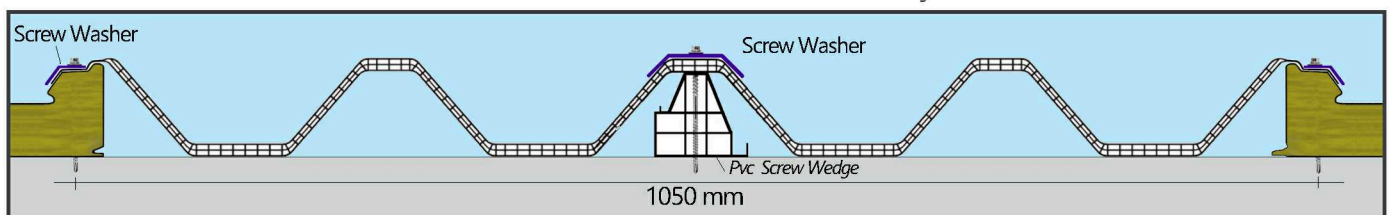


PRODUCT DATA

Thickness	8 mm	10 mm	12 mm	16 mm
Structure	3 Wall			
Width	Grecalux -ES 1000 mm		Grecalux-MS 1040 mm	
Length				
Thermal Conductivity W/m²°K	2,9	2,7	2,5	2,3
LIGHT TRANSMISSION %				
Clear	72		63	
Opal	57		49	



GRECALUX -ES & OVERLAP SYSTEM SANDWICH PANEL



GRECALUX-MS & CAP SYSTEM SANDWICH PANEL

SYSTEM ACCESSORIES

PBM



PBD



POLYTHENE SUPPORTER

High-density ridge & gutter supporters are placed under the ridge steel and the gutter band is placed under the Grecalux panel to prevent wind and water ingress.

PVC SUPPORTER AND WEDGE

RAL 9002 colored PVC supporter profile with high-strength body structure is heat-insulated. The support profiles are placed under the sandwich panels to be screwed panels easily and safely. The pvc wedges are also used to support for screwing of the pc panels from the middle greca form on the purlin.

PAINTED GALVANIZE RIDGE SHEET

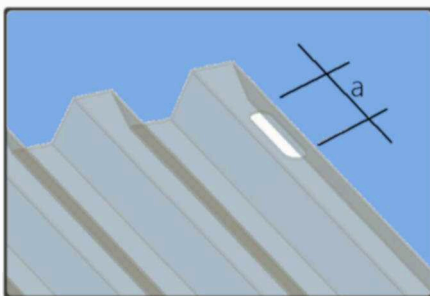
Flat-cut ridge sheets are placed in the joining areas of the ridge part of the pc panels and screwed to the roof

PANEL SCREW AND WASHER

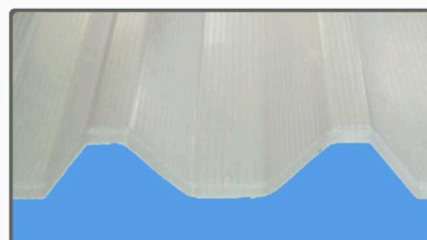
Panel screws should be selected according to the main construction material. Metal washer provide water insulation for the panel screw Before installation, The holes on pc panel should be drilled min. 5 mm larger than the screws diameters in order to perform the thermal expansion of pc panels

LOAD TABLE

LOAD N/m ²	Distances between purlins-mm			
	8 mm	10 mm	12 mm	16mm
900	1950	2100	2300	2500
1200	1700	1850	2000	2200
1500	1500	1700	1800	2000
1800	1200	1400	1650	1850
Min. three or much more purlins				

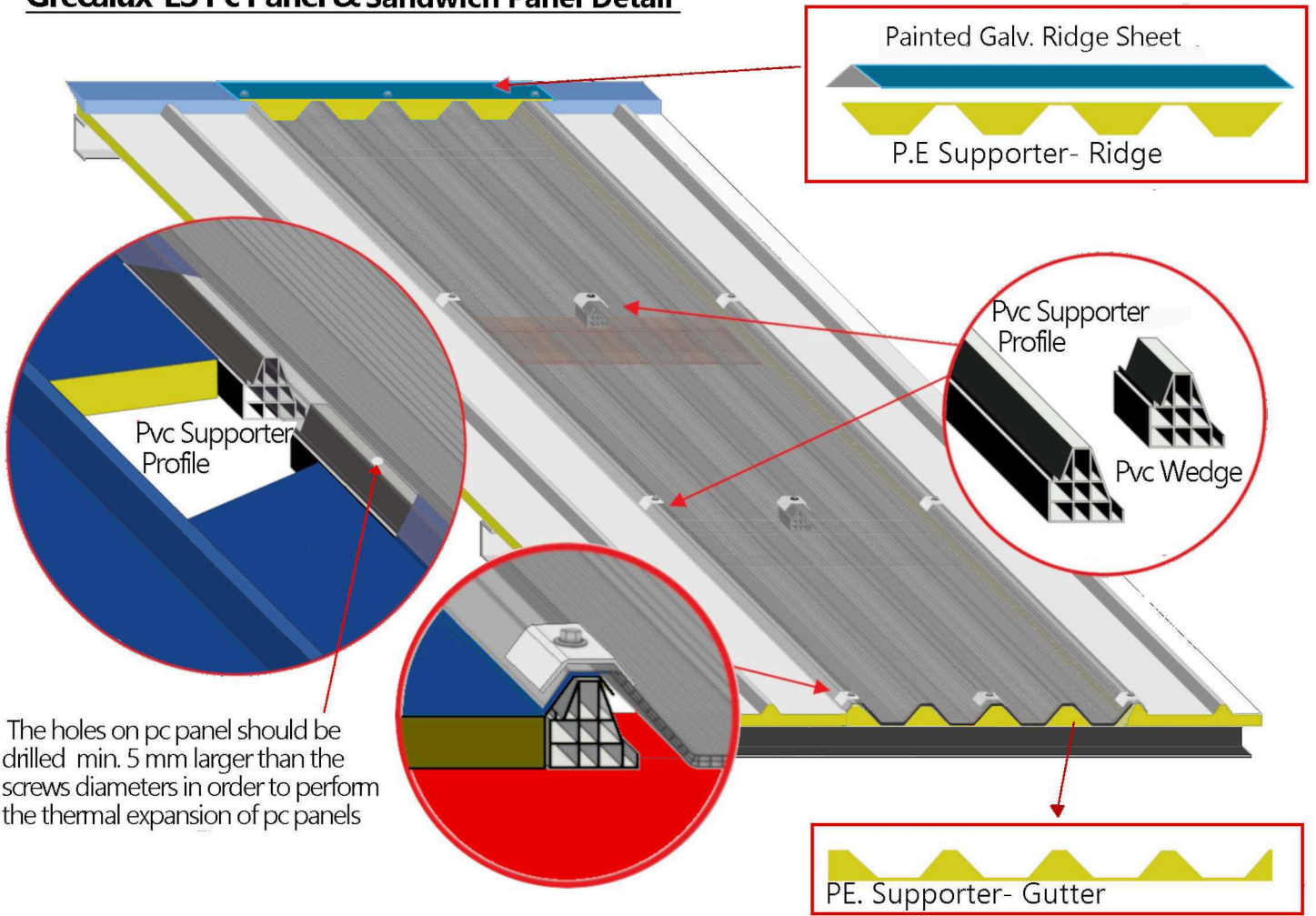


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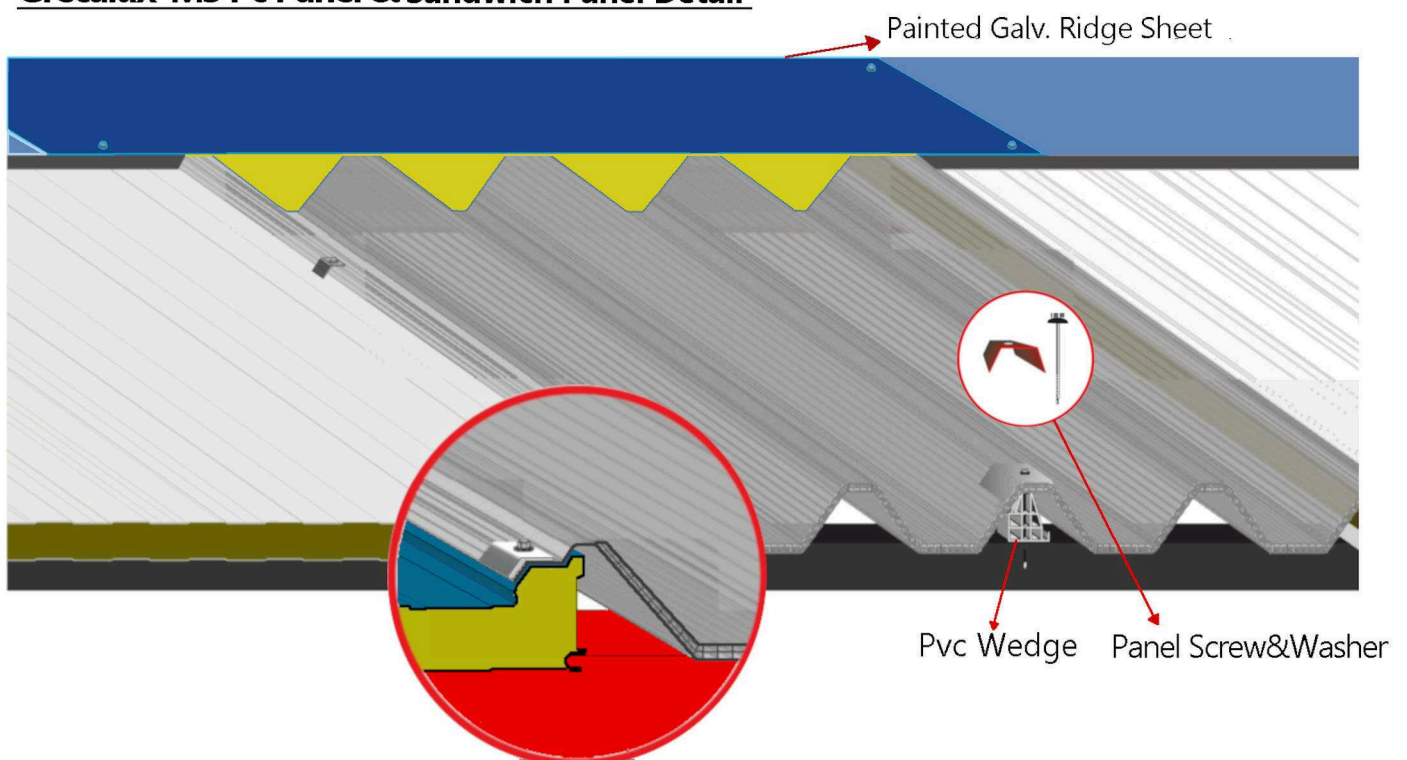


Grecalux panels are manufactured with closed end in order to prevent the penetration of dust into the body, aesthetic degradation and loss of heat insulation.

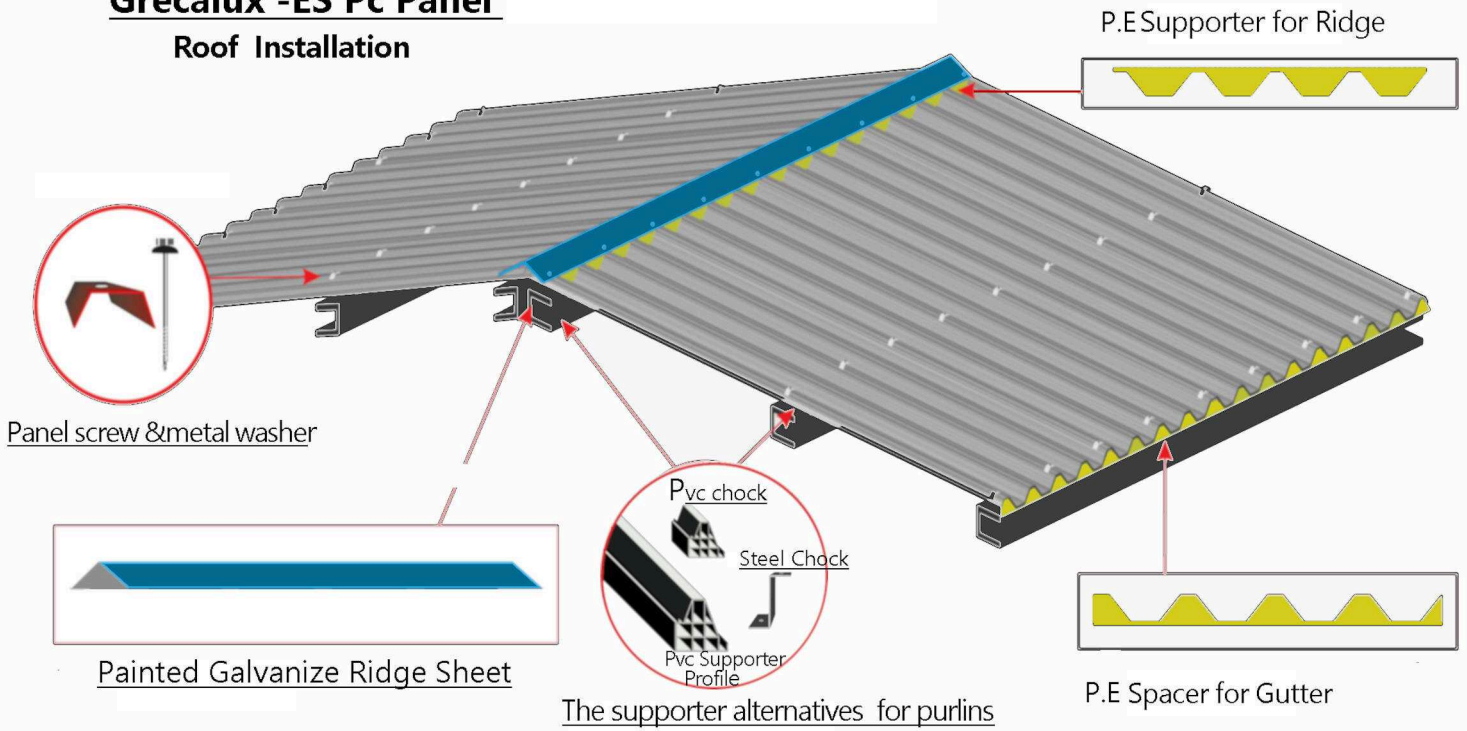
Grecalux-ES Pc Panel & Sandwich Panel Detail



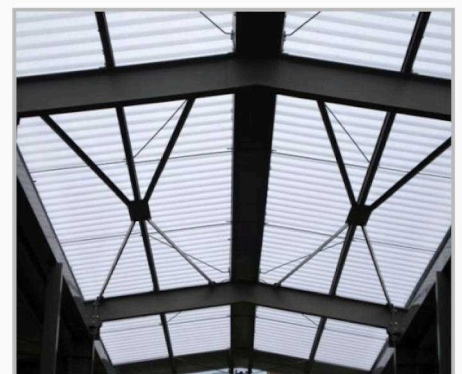
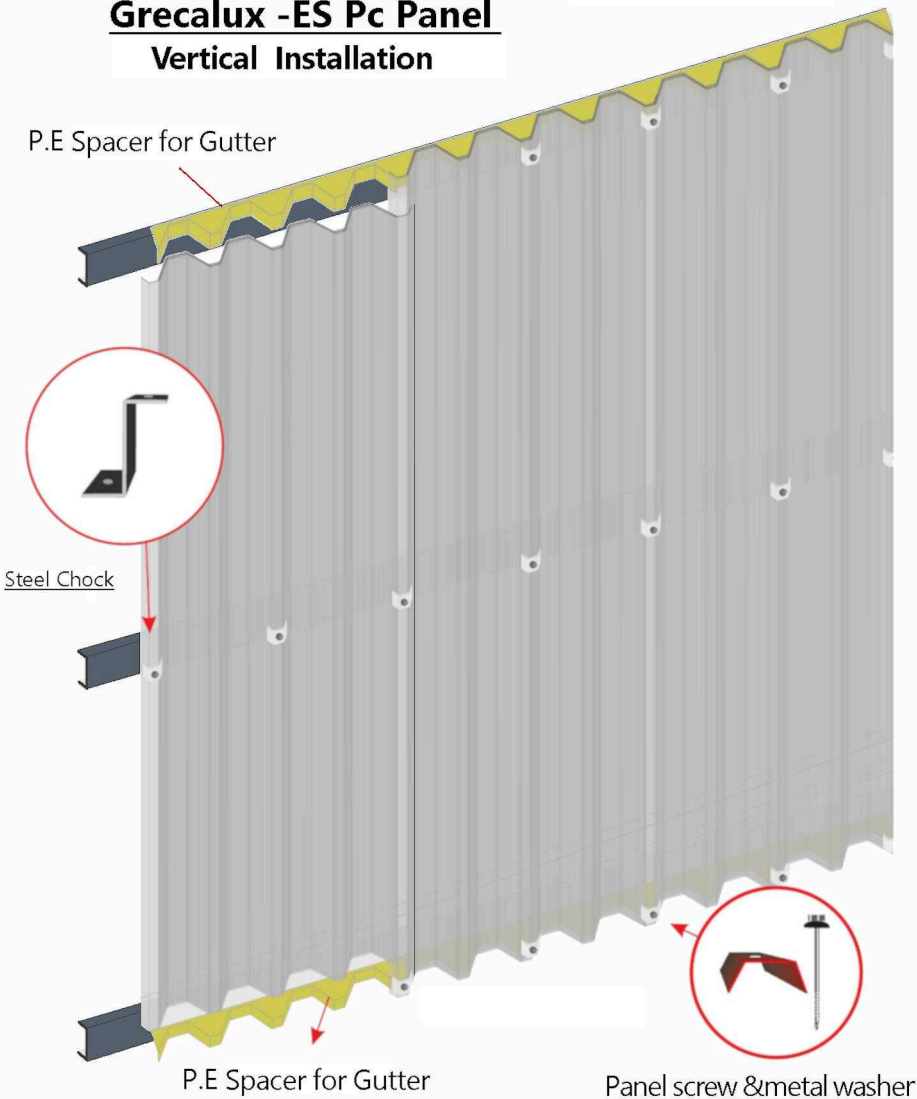
Grecalux-MS Pc Panel & Sandwich Panel Detail



Grecalux -ES Pc Panel
Roof Installation



Grecalux -ES Pc Panel
Vertical Installation



Large areas of roof and facade can be easily and safely covered with Grecalux pc panels by means of their wings structure that are overlapped horizontal direction