

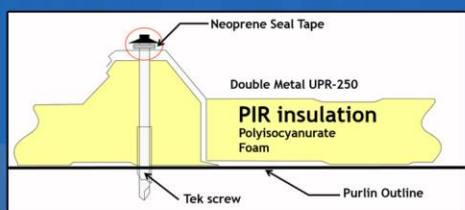
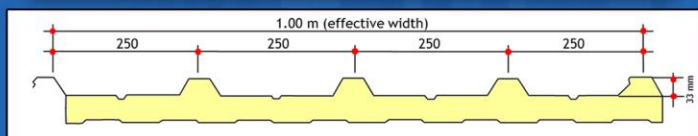


*Super Cool*  
**Super Rigid**

# UPR-250 Roof Panel

## Ultra UPR-250 Pre-insulated Composite Roofing Panel

Ultra Panel Roof (UPR-250) is a pre-insulated roof panel system designed for optimum structural stability and easy drainage under severe rainfall conditions. It is composed of an exterior metal skin cladding using *snap-on-side overlap fastening system* and interior liner cladding of either metal skin or Aluminum Kraft vapor barrier with polyisocyanurate (PIR) foam insulation in between and produced from continuous rigid urethane foam line.



**Outer Skin:** The exterior part of the roofing system which is directly exposed to the elements. The outer skin is the primary component which protects the building and its contents from the weather. With UPR-250 roofing system, this means protection from rain, wind, sunlight, and heat.

**Inner Skin:** The part of the UPR-250 panel which is placed on the interior side of the building. Only when the inner skin is made of metal material can the system be considered as composite panel acting together with the outer skin to resist superimposed loads.

**Polyisocyanurate (PIR) insulation:** PIR is an improvement on polyurethane. It is used as the core material that is sandwiched between two metal facings or a metal facing and Aluminum Kraft paper in Ultra UPR-250 panels manufactured by the continuous foam line process. Ultra's PIR insulation meets the demanding Class 1 Flame Spread and smoke development requirements of ASTM E84.

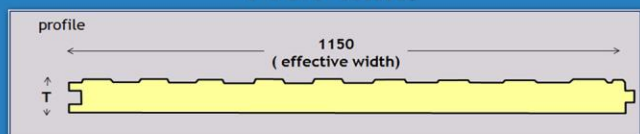
Due to the high rib profile of the UPR-250, it is able to:

- Safely withstand the superimposed roof live load and wind load applicable in the given locality specified under the provisions of the National Structural Code of the Philippines (NSCP).
- Efficiently drain rain water towards the gutter or away from the building even under high winds or low slope conditions.
- Provide an aesthetic appearance that meets the high degree of standards required by architects and builders for their structures.



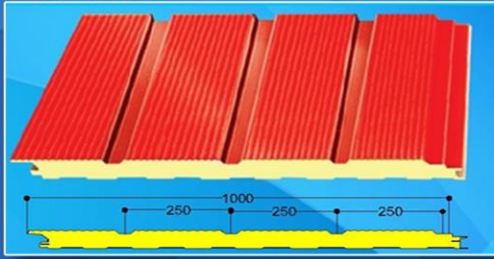
# UCSP Cold Storage Panel

Ultra Cold Storage Panel (UCSP) is faced with a choice of polyester pre-painted galvalume or stainless steel material. The core material is a self-extinguishing polyisocyanurate (PIR) foam with density as prescribed in refrigeration. Side connections are *tongue-and-groove* machine-formed profile for an effective jointing system assuring leakage-free installation. The UCSP can be used for cold storage enclosures, sidings, roof, partition, undersheeting, or ceiling.

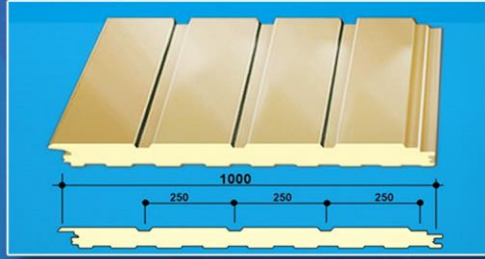


# Wall Panel UPW

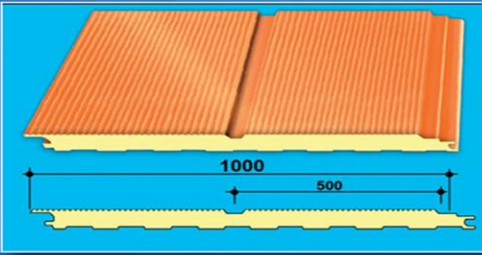
UPW-M250



UPW-P250



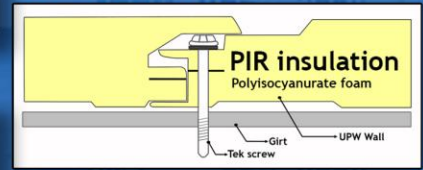
UPW-M500



UPW-M1000



Connection Detail



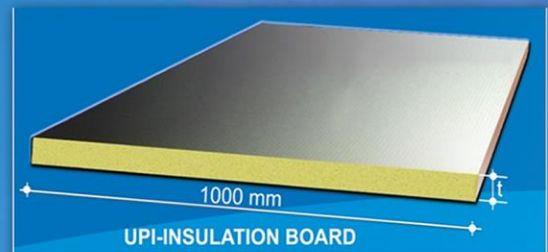
Ultra Panel Wall (UPW) is a pre-insulated wall panel system composed of polyisocyanurate (PIR) foam sandwiched by two metal skins. The shallow rib height creates a more rigid and structurally sound wall system compared to conventional walls.

The wall profile is designed to withstand water to protect the structure from outside elements. The *concealed fastening system* makes it more aesthetically presentable.



# Insulation Board UPI Board

Ultra Panel Insulation Board (UPI) is composed of a rigid, freon-free, closed-cell polyisocyanurate foam material conforming to ASTM F84 (Flame Spread rating of 75 or less), on incombustible characteristics and ASTM C165 (average compressive strength of 31 psi) with aluminum foil or aluminum kraft on both faces.



PIR Foam Thickness (mm)	Thermal Resistance (ft <sup>2</sup> h°F/BTU)	Thermal Conductance (BTU/ft <sup>2</sup> h°F)
25 mm	7.6325	0.131
50 mm	14.4109	0.0694
75 mm	21.1894	0.0472
100 mm	27.9678	0.0358

## Product Specification

Product	Metal Thickness/ Gauge	Inner Skin	PIR Foam Insulation Thickness	Effective Coverage	Nominal Width	Rib Height	Density	Connection Detail	Material Finish	Length of Panel
UPR	0.40 mm (#26) 0.50 mm (#25) 0.60 mm (#24) 0.70 mm (#23) 0.80 mm (#22)	• Metal	25, 50, 75, 100 mm	1.0 m	1.05 m	33 mm	35-40 kg/m <sup>3</sup>	Overlap Fastening System	• PPGI (Pre-painted Galvanized Iron) • Galvalume • Stainless	Up to transportable length
UCSP		• Aluminum Kraft						25, 50, 75, 100, 125 mm		
UPW		• Other Alternative Material	50, 75, 100 mm	1.0 m	1.05 m	5 mm/ 2 mm	35-40 kg/m <sup>3</sup>			
UPI		• Metal						25, 50, 75, 100, 125 mm		

## Material Properties

Classification	Physical Property
Incombustibility characteristics	DIN 4102-1 Class B2
Application temperature	+70 ≈ -80 °C
Elastic coefficient	20 kg/cm <sup>2</sup>
Compression strength	Over 1 kg/cm <sup>2</sup>
Bending strength	2.0 to 2.5 kg/cm <sup>2</sup>
Shearing strength	2 kg/cm <sup>2</sup>
Adhesive Power	1 kg/cm <sup>2</sup>
Absorption rate	Under 1 g/100 cm <sup>2</sup>

## Optional Accessories

Tekscrew cap for:



Roof



Wall



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