



Delivering Excellence Building Solutions.



**STAY COOL,  
STAY SILENT,  
SAVE ENERGY**



**TH® DECK 762  
TH® SUPERIOR RIB 35**



PU Foam Metal



PU Foam PVC Paper



PU Foam Aluminium Foil



# TH® PU FOAM series

TH® PU FOAM series is complete insulated roofing panels with outstanding thermal efficiency. It is manufactured by bonding CFC-free Rigid Polyurethane (PU) foam between exterior profiled metal roofing sheets and interior fire retardant PVC lamination paper / metal line / aluminium foil. These insulated metal roofing panels are distinguished by a combination of high insulation characteristics and light weight. The interior lamination is glossy and textured create an aesthetically attractive appearance.

TH® PU FOAM series provides excellent heat resistance, good sound absorption, mechanical and dimensional stability of roof assembly. The overall result is roofing systems that maintain your buildings cool all day long with great saving on electricity.

TH® PU FOAM series eliminates unnecessary multiple construction processes of laying insulations and roofing sheets into a one off fast and easy way of installation course. This results in great reduction of construction expenditures in term of labour usage, transportation, storage and purchasing costs.

TH® PU FOAM series contains water resistant materials which will not be damaged by rain water.

TH® PU FOAM series is smoke resistant as well. The interior lamination colour is white which enhance reflectivity, durability and require low maintenance.



## AVAILABLE LENGTH

Custom cut length available according to order.

## PRODUCT TOLERANCES

Length : ±10mm  
 Width : ±5mm to ±6mm  
 Thickness : ±0.02mm / per single metal sheet

## WARRANTIES

THUNG HING provides warranties on an individual project basis.

## PACKING

TH® PU FOAM series insulated roofing is stacked face to face and back to back. The top and bottom are protected with timber and additional roofing sheets. The number of pieces in each pack depends on length. Quantities are reduced for longer roofing sheets.

The table below show as guide of packing :

Thickness TCT (mm)	Length (ft.)										
	10	12	14	16	18	20	22	24	26	28	30
0.42~0.55	28	28	28	28	28	28	24	24	24	24	24

## THICKNESS FOR EQUIVALENT INSULATION PERFORMANCE OF COMMON BUILDING MATERIALS



## PRODUCT DESCRIPTION

TH® PU FOAM series made up of 3 layers of prepainted steel, rigid Polyurethane (PU) and the fire retardant PVC lamination paper / metal Line / aluminium foil. It is a complete insulation system built into a single product which can effectively reduce heat and noise

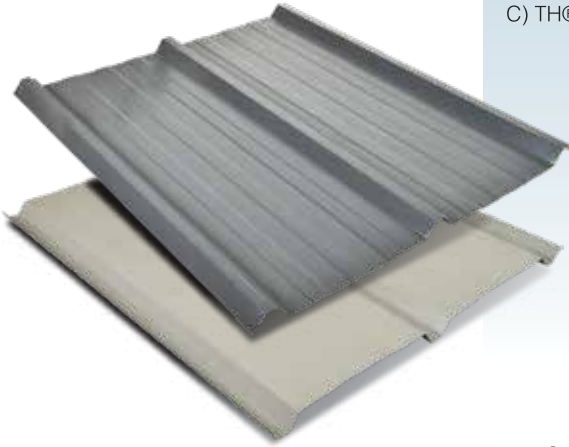
Outer Skin	TH® PU FOAM METAL	Available Thickness 0.36mm-0.55mm
PU Foam	Polyurethane	Thickness 18mm to 50mm
Inner Skin	PVC paper / metal Line / aluminium foil	-

\*TCT - Total Coated Thickness

## INSULATION PROPERTIES

Items	Specification
Type of insulation	Bonded Rigid Polyurethane
Thickness of Insulation	18mm to 50mm
Insulation Density	35-40 kg/m³
Thermal Resistance (R)	1.06 m² K/W

# TH® SUPERIA RIB 35

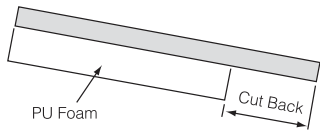


### PANEL END CUT BACK

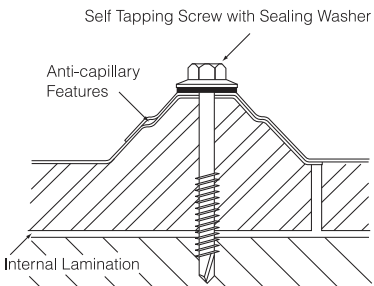
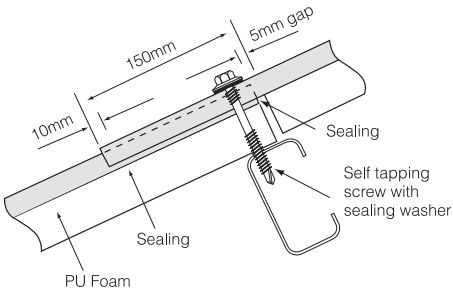
For installation of insulated metal roof, the following measures are recommended

- Cut back at eaves - 100 mm
- Cut back at end laps - 150mm

### Side Lap



### Panel End Lap



### ROOF PITCH

The minimum recommended roof pitch is 3°

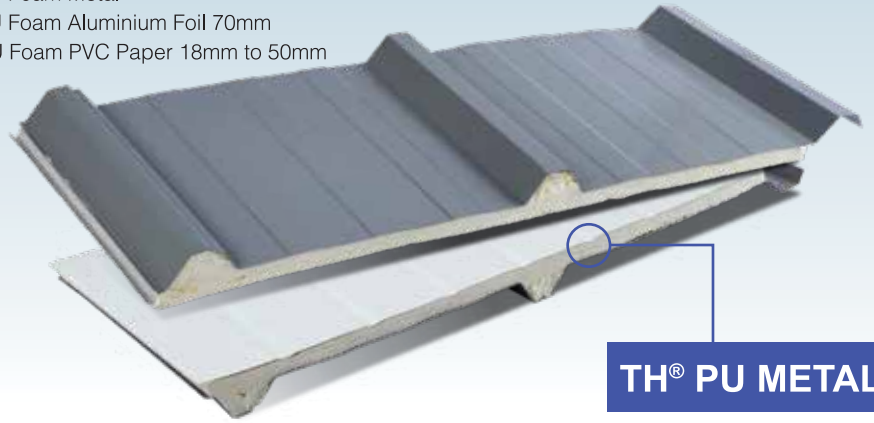
### FASTENING



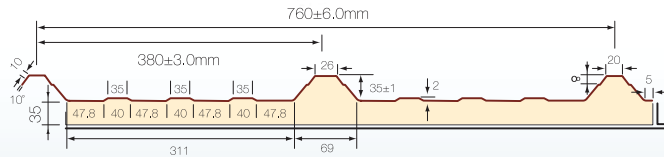
# TH® SUPERIOR RIB 35

**NEW!**

- A) TH® PU Foam Metal
- B) TH® PU Foam Aluminium Foil 70mm
- C) TH® PU Foam PVC Paper 18mm to 50mm



**TH® PU METAL**

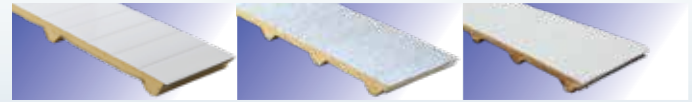


### Roof pitch

minimum recommended roof pitch is 1°

# TH® DECK 762

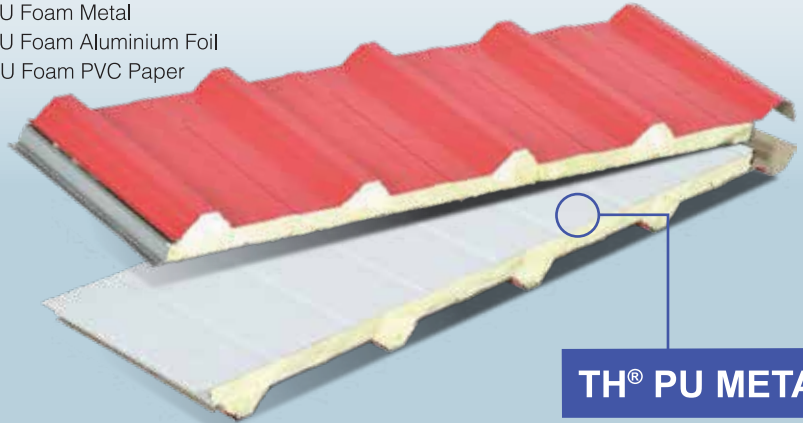
- A) TH® PU Foam Metal
- B) TH® PU Foam Aluminium Foil
- C) TH® PU Foam PVC Paper



PU Foam Metal

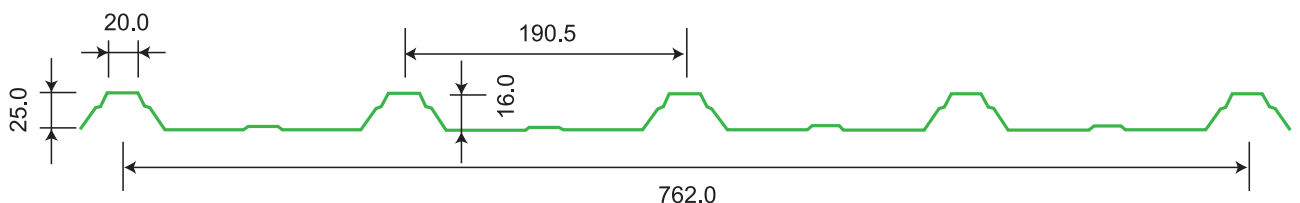
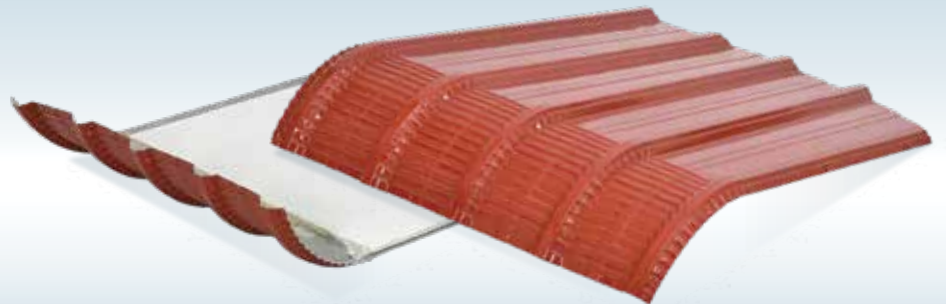
PU Foam Aluminium Foil

PU Foam PVC Paper



**TH® PU METAL**

# TH® PU FOAM CRIMP CURVE



# SPECIFICATIONS

**WIND CAPACITY LOAD SPAN TABLE**

Thickness TCT (mm)	Uniformly Distributed Load (kN/m <sup>2</sup> ) Span L (m)							
	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7
0.42	18.36	5.44	3.06	1.57	0.91	0.57	0.38	0.27
0.45	19.89	5.89	3.31	1.70	0.98	0.62	0.41	0.29
0.48	21.42	6.35	3.57	1.83	1.06	0.67	0.45	0.31
0.53	23.96	7.10	3.99	2.04	1.18	0.75	0.50	0.35
0.55	24.97	7.40	4.16	2.13	1.23	0.78	0.52	0.37

**MAXIMUM RECOMMENDED SUPPORT SPACING**

Thickness TCT (mm)	Roof		Wall		Overhang (mm)
	Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.42	1800	1550	2050	1850	150
0.45	1900	1650	2200	2000	150
0.48	1950	1700	2250	2050	150
0.53	2050	1800	2350	2150	200
0.55	2050	1800	2350	2150	200

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## SIRIM Test Report



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