

Km COMPOSITE PANEL PRODUCTS

PROFILE TSP 35/205



PROFILE TSP 40/200



PROFILE TSP 18/110



PROFILE TSP 45/150



PROFILE TSP 13/100



PROFILE TSP 32/366



PROFILE TSP 45/250



PROFILE TSP 45/250 (CONCEALED)



PROFILE TSP 42/206

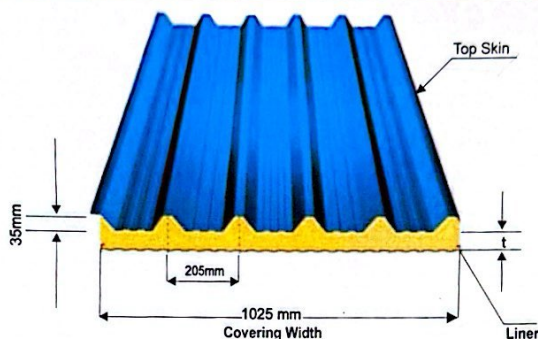


PROFILE ISOWALL



TSP 35/205

COMPOSITE PANELS (ROOF & WALL CLADDING)



(t) Panel Thickness (mm)	1 x (cm ⁴) for 1m width	Z top for 1m width cm ²	Z bottom for 1m width cm ²	Moment Top kN m	Moment Bottom kN m
100	280	51	62	12.13	12.13
based on 0.7 mm external GI and 0.7 mm internal GI					

(t) Panel Thickness (mm)	Allowable Uniform Loads kN/ M'																	
	1.0 m		1.5 m		2.0 m		2.5 m		3.0 m		3.5 m		4.0 m		4.5 m		5.0 m	
	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D
100	69.35	315.04	30.82	83.35	17.34	39.38	11.10	20.16	7.71	11.67	5.66	7.35	4.33	4.92	3.42	3.46	2.77	2.52

GI 250 N/mm² Permissible span-deflection ratio = 100

assumes bond with insulation ensures that lateral sliding of sheets does not occur & insulation does not have significant compression

S = Strength

D = Deflection

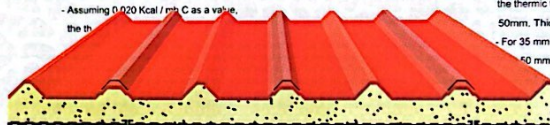
No more fasteners!
(Made a right)

A. Mechanical Characteristics of The foam (At a density of 35 / 37 kg / m³)

Maximum tensile stress : kg - 4.00 / cm²
Compression resistance : kg - 2.00 / cm²
Shear resistance : kg - 1.00 / cm²

B. Insulating capacity

- Assuming 0.020 Kcal / m² h C as a value,
the thermic transmission coefficient for 35 and
50mm. Thick insulated panel, is the following :



After 24 hours : 1.9 % of volume

D. Close cells

93 %

E. Self extinguishing type

As per ASTM D 1692 / 68 norms

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- For 50 mm = 0.40 Kcal / m² h c

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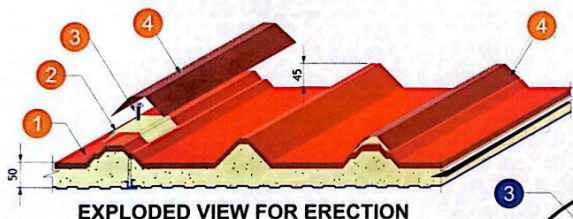
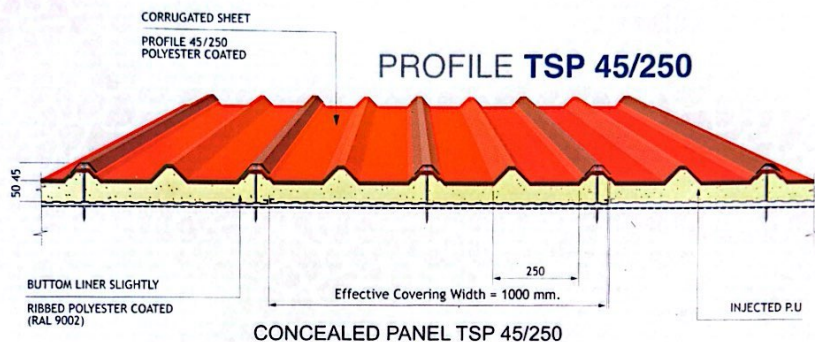
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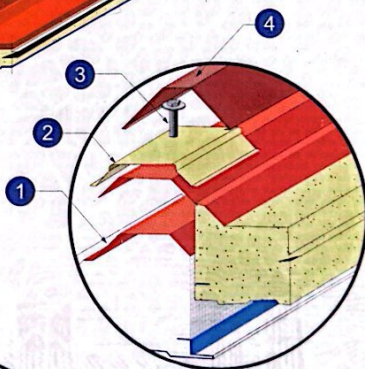


CONCEALED COMPOSITE PANEL



LEGEND:

- 1 - Corrugated sheet profile 45/250 polyester coated
- 2 - Saddle washer
- 3 - Self drilling screw
- 4 - Concealed capping.



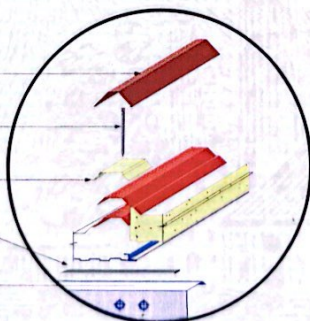
CONCEALED CAPPING

SELF DRILLING SCREW

METAL WASHER

PURLIN TAPE

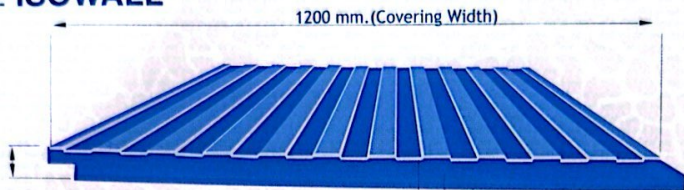
ROOF PURLIN



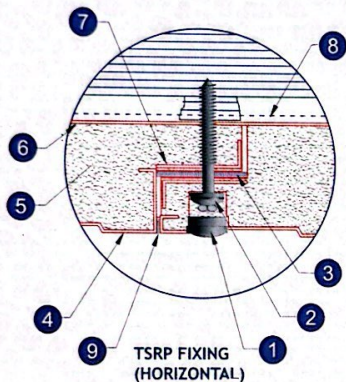
CONCEALED COMPOSITE PANEL

Km

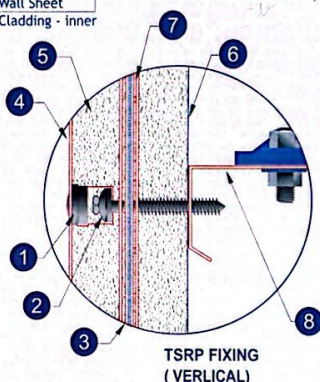
PROFILE ISOWALL



Wall Sheet
Cladding - outer
Polyurethane
foam
Wall Sheet
Cladding - inner



TSRP FIXING
(HORIZONTAL)



TSRP FIXING
(VERTICAL)

LEGEND:

- ① Colour Cap
- ② STS Screw
- ③ Compriband Gasket
- ④ Cladding Wall Sheet - Outer
- ⑤ Injected P.U
- ⑥ Cladding Wall Sheet - Inner
- ⑦ Inserted Sheet reinforcement
- ⑧ Wall Z Purlin
- ⑨ Sealant

INSULATED PROFILE ISOWALL 60 mm. THICK

Panel Thickness (mm)	Weight Kg/m ²	Ix (cm ⁴) for 1 m width	Sx (cm ³) for 1 m width		
60	4.50	61.256	29.502		

Based on 0.50 mm. External and 0.50 mm. Internal aluminum skin. Assumes bond with insulation ensures that lateral Sliding of sheets does not occur & insulation does not have significant compression.

Panel Thickness (mm)	Allowable Uniform Loads kN/m ²													
	1.0 m		1.5 m		2.0 m		2.5 m		3.0 m		3.5 m		4.0 m	
	S	D	S	D	S	D	S	D	S	D	S	D	S	D
60	19.27	15.68	8.56	4.65	4.82	1.96	3.08	1.00	2.14	0.58	1.57	0.37	1.20	0.25

f_y aluminium 170 N/mm²

Permissible Span Deflection ratio = 150