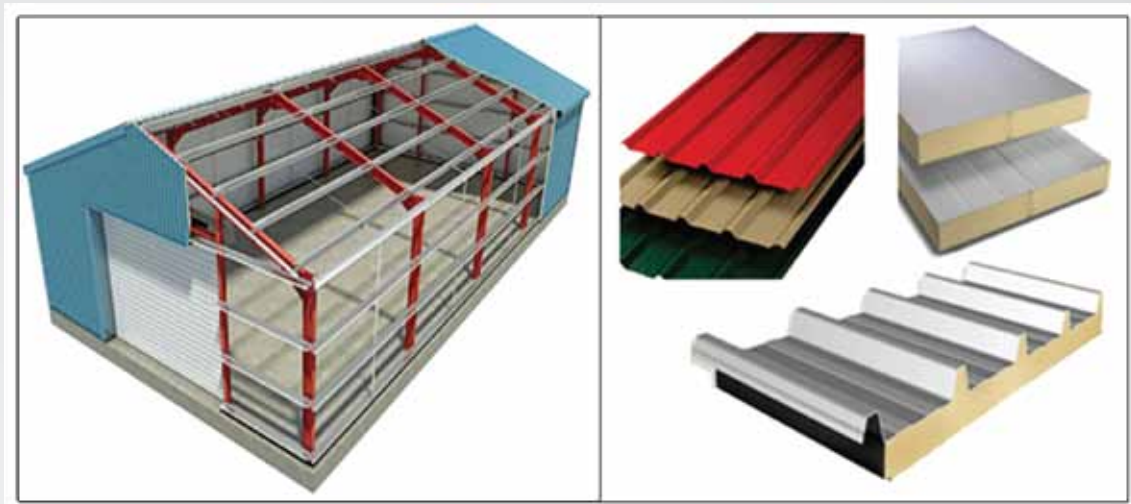




**EMBUILD MATERIALS** is a building materials company that provides relevant and high quality products to customers. We work hard to develop and deliver the best solutions for Building material industry in general and Metal construction in particular. Promoted by the **Buhari Group (www.buhariholding.com)**, **co-promoters of ETA-ASCON Group, Dubai**. The company focuses on building materials and products, catering to various requirements for the construction and building Industry. Industry experience of our team coupled with resourceful management experience has enabled us to meet customer expectations and to provide comprehensive solutions across the construction industry.

We offer a wide variety of high quality building materials and construction supplies to satisfy the ever growing needs of the industry. Our experienced team is fully equipped and are experts in advising the customers on optimum utilization of products. We constantly strive to establish and maintain a mutually beneficial long term relationship with our customers.

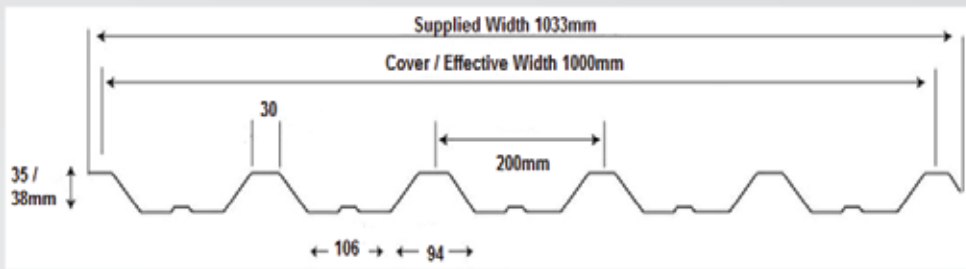
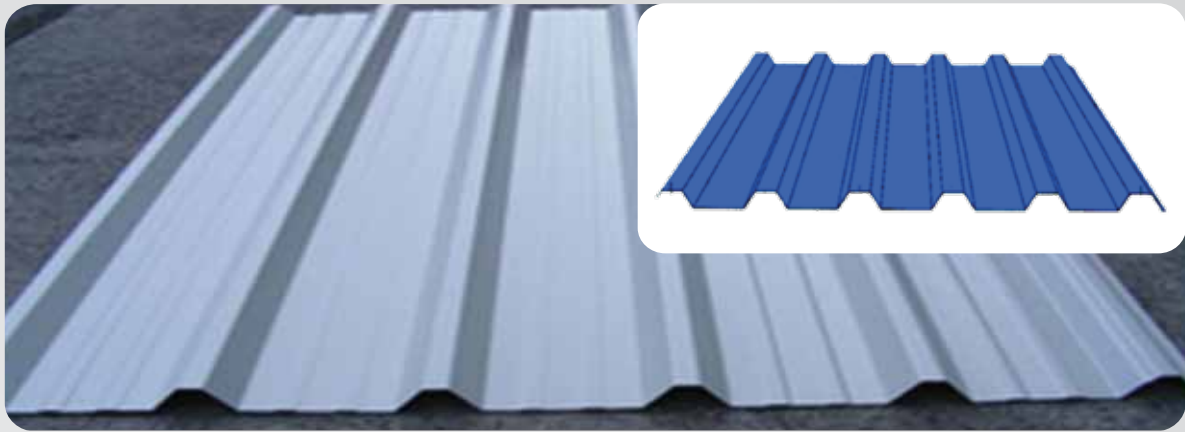


## PRODUCTS OFFERED

- Profile Sheets
- Insulated Sandwich Panels
- Z & C Purlins
- Decking Sheets
- PEB Accessories
- Fixing Accessories
- Insulation Materials
- Fencing Panels
- Metal Sheets, Expanded Metal Products
- Perforated Sheets
- Cold Rooms
- Cold room doors and accessories
- Clean Room construction material
- Coving and other Profiles

# SINGLE SKIN CLADDING (PROFILE SHEETS)

## 35(38)/200 Profile Sheets



### STEEL

#### 35(38) / 200 SINGLE SKIN

Allowable Uniform Distribute Load KN/Sq.m

Thk. mm	Span Type	Clear Span in m				MOI cm <sup>4</sup> /m	Wt. Kg/Sq.m
		1.00	1.25	1.50	1.75		
0.5	↑	3.69	2.36	1.64	1.04	12.40	4.64
	↑ ↑ ↑	4.61	2.95	2.05	1.30		
0.6	↑	4.43	2.83	1.97	1.24	15.25	5.55
	↑ ↑ ↑	5.54	3.54	2.46	1.56		
0.7	↑	5.17	3.31	2.30	1.45	17.79	6.49
	↑ ↑ ↑	6.46	4.13	2.87	1.81		
0.9	↑	6.64	4.25	2.95	1.87	22.88	8.34
	↑ ↑ ↑	8.31	5.32	3.69	2.33		

#### Application: Roof and Wall Sheets

Material: Hot dip galvanised steel conforming to ASTM A653  
Thickness: 0.5 to 0.9mm

Colours: As per requirement/Availability  
Load in KN/LM and deflection L/200

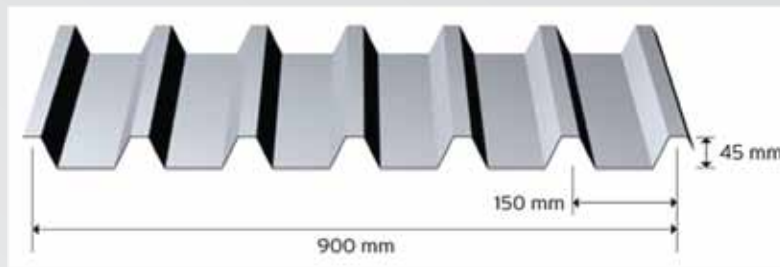
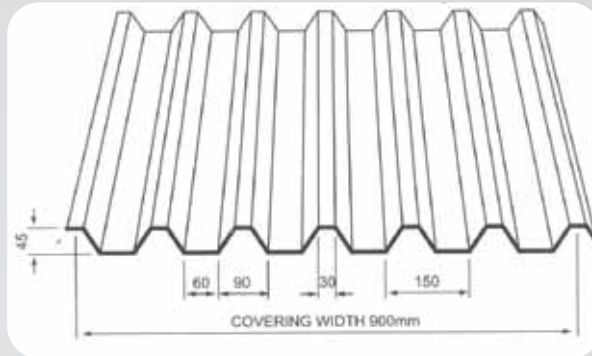
### ALUMINIUM

#### 35(38) SINGLE SKIN

Allowable Uniform Distribute Load KN/Sq.m

Thk. mm	Span Type	Clear Span in m				MOI cm <sup>4</sup> /m	Wt. Kg/Sq.m
		1.00	1.25	1.50	1.75		
0.5	↑	1.91	0.98	0.56	0.36	12.70	1.62
	↑ ↑ ↑	2.38	1.22	0.71	0.44		
0.6	↑	2.29	1.17	0.68	0.43	15.25	1.95
	↑ ↑ ↑	2.86	1.46	0.85	0.53		
0.7	↑	2.67	1.37	0.79	0.50	17.79	2.27
	↑ ↑ ↑	3.34	1.71	0.99	0.62		
0.9	↑	3.43	1.76	1.02	0.64	22.88	2.92
	↑ ↑ ↑	4.29	2.20	1.27	0.80		

## 45/150 PROFILE



### STEEL

#### 45/150 SINGLE SKIN

Allowable Uniform Distribute Load KN/Sq.m

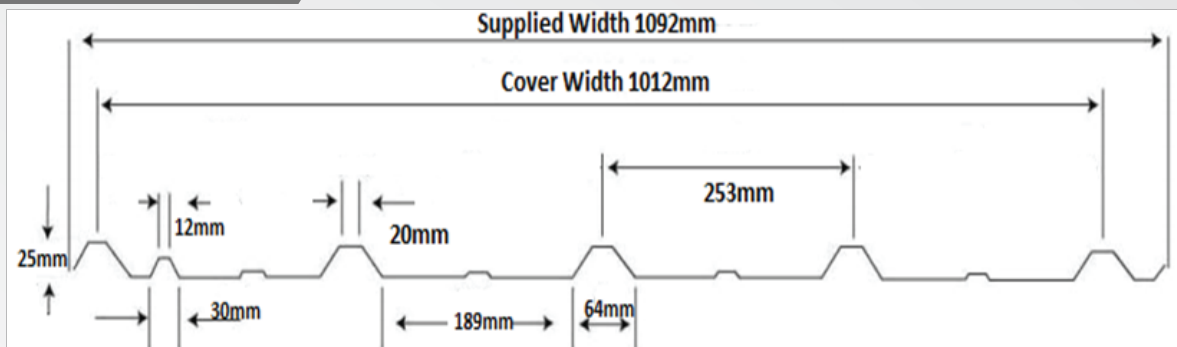
Thk mm	Span Type	Clear Span in m				MOI cm <sup>4</sup> /m	Wt. Kg/Sq.m
		1.00	1.25	1.50	1.75		
0.6	↑ ↑ ↑	6.08	3.89	2.70	1.82	20.06	6.34
	↑ ↑ ↑	7.60	4.86	3.38	2.27		
0.7	↑ ↑ ↑	7.09	4.54	3.15	2.12	23.40	7.40
	↑ ↑ ↑	8.87	5.67	3.94	2.65		

#### Application: Roof and Wall Sheets:

Material: Hot dip galvanised steel conforming to ASTM A653  
Thickness: 0.5 to 0.9mm

Colours: As per requirement/Availability  
Load in KN/LM and deflection L/200

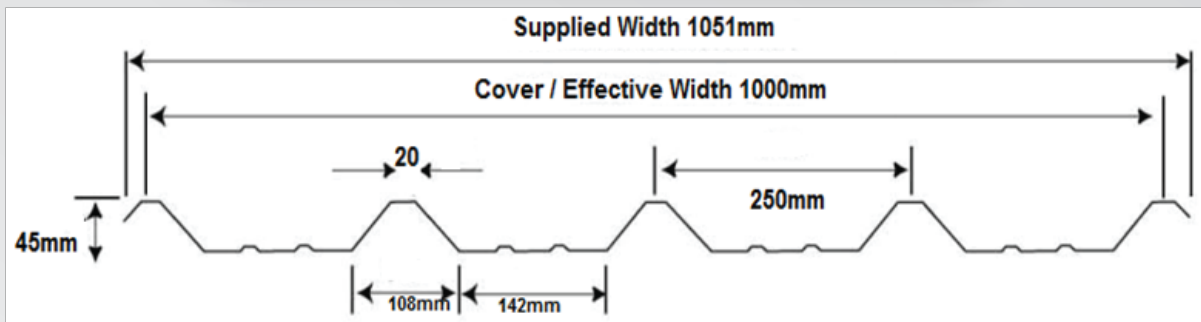
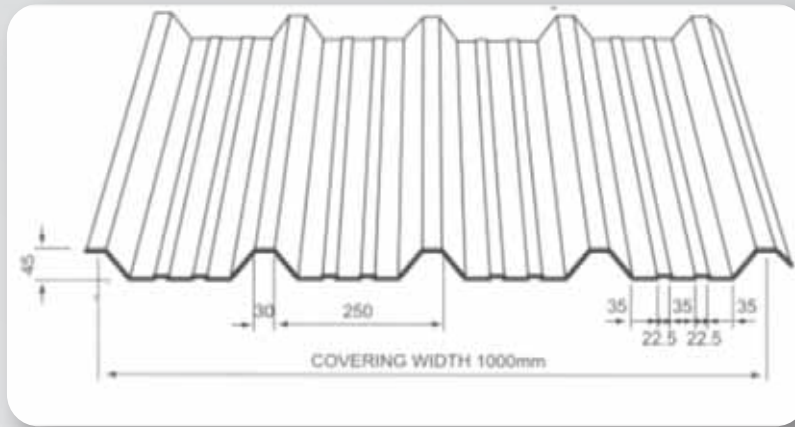
## 25/253 Profile:



#### Offered thickness of the sheets:

PPGI ( Precoated GI ) : 0.3mm - 0.9mm ;  
PPAL ( Prepainted Aluminum ) : 0.4mm - 0.9mm

## 45/250 PROFILE



### STEEL

#### 45/250 SINGLE SKIN

Allowable Uniform Distribute Load KN/Sq.m

Thk. mm	Span Type	Clear Span in m				MOI cm <sup>4</sup> /m	Wt. Kg/Sq.m
		1.00	1.25	1.50	1.75		
0.5	↑ ↑ ↑	3.54	2.27	1.57	1.16	15.87	4.70
		4.42	2.83	1.97	1.44		
0.6	↑ ↑ ↑	4.25	2.72	1.89	1.39	19.04	5.65
		5.31	3.40	2.36	1.73		
0.7	↑ ↑ ↑	4.96	3.17	2.20	1.62	22.22	6.59
		6.19	3.96	2.75	2.02		
0.9	↑ ↑ ↑	6.37	4.08	2.83	2.08	28.57	8.47
		7.96	5.10	3.54	2.60		

**Application: Roof and Wall Sheets**

Material: Hot dip galvanised steel conforming to ASTM A653

Thickness: 0.5 to 0.9mm

Colours: As per requirement/Availability

Load in KN/LM and deflection L/200

### ALUMINIUM

#### 45/250 SINGLE SKIN

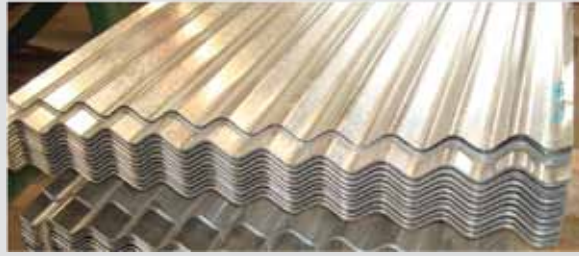
Allowable Uniform Distribute Load KN/Sq.m

Thk. mm	Span Type	Clear Span in m				MOI cm <sup>4</sup> /m	Wt. Kg/Sq.m
		1.00	1.25	1.50	1.75		
0.5	↑ ↑ ↑	2.00	1.22	0.71	0.44	15.87	1.65
		2.50	1.52	0.88	0.56		
0.6	↑ ↑ ↑	2.40	1.46	0.85	0.53	19.04	1.98
		3.01	1.83	1.06	0.67		
0.7	↑ ↑ ↑	2.81	1.71	0.99	0.62	22.22	2.31
		3.51	2.13	1.23	0.78		
0.9	↑ ↑ ↑	3.61	2.19	1.27	0.80	28.57	2.96
		4.51	2.74	1.59	1.00		



## CORRUGATED SHEETS

### CORRUGATED (Sinusoidal/Wave profile) SHEETS



**Mill Finish GI and Aluminum Corrugated sheets.**

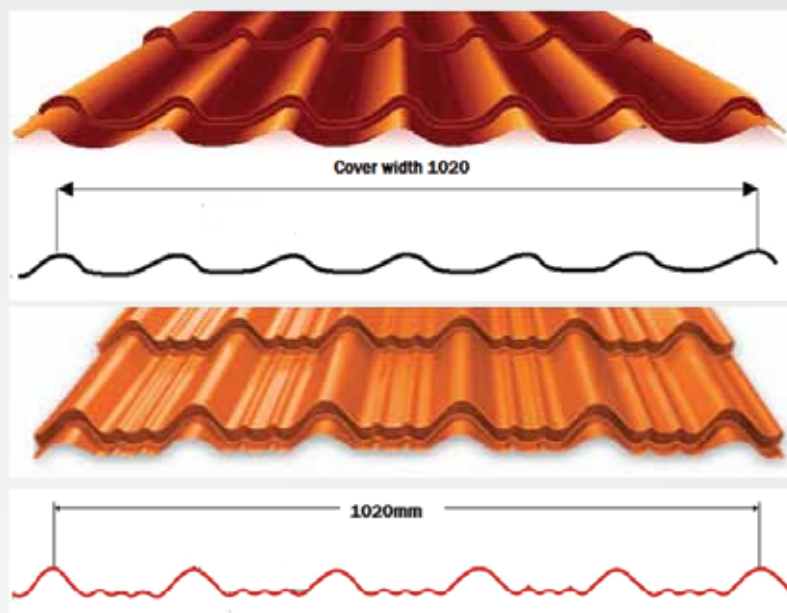
PPGI and PPAluminum (PPAL) Corrugated sheets :



### TILE PROFILE SINGLE SKIN SHEETS ( Both PPGI and Aluminum sheets are offered)



**Cover / Effective width 1020mm**  
offered colors : Red, Blue and off white  
Other colors also offered but subject to qty.



## TRANSLUCENT SHEETS ( Skylight)

(GRP/FRP)

Light Transmission

85%+/-5% ASTM D1494

### Mechanical properties:

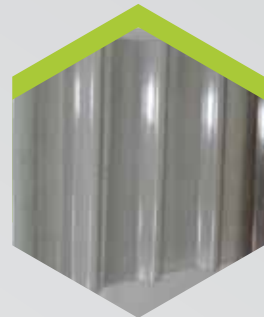
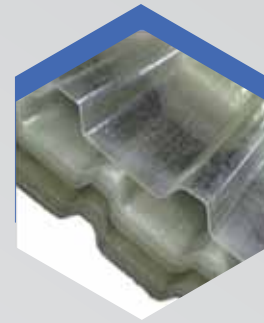
a) Tensile strength	:7.8kn/cm <sup>2</sup>	ASTM D638
b) Compressive strength	:16.2kn/cm <sup>2</sup>	ASTM D695
c) Flexural Strength	:13.83kn/cm <sup>2</sup>	ASTM D790
d) Flexural Modulus	:728 kn/cm <sup>2</sup>	ASTM D790
e) Barcol Hardness	:40 to 60	ASTM D2583
f) Impact Strength	:470 J/m	ASTM D256

### Physical Properties:

(i) Density	:1431.9kg/m <sup>3</sup>	ASTM D792
(ii) Water Absorption	:<0.25%	ASTM D570

### Thermal Property:

• Thermal conductivity	:0.147w/mk	ASTM C518
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### Operating Temperature

The parameter is : -30°C to + 75°C :

### Tolerance on Length, width and Squareness.

Length : Sheets up to 5m long. +/-10mm

Sheets over 5m long. -10mm, +15mm

Width +/- 5mm

Squareness : the deviation shall be not more then 0.5mm in every 100mm of width within the Sheet tolerance (End square 6mm)

Thickness : -3mm +3mm (+/-3mm)

### Assembly of the skylights

To allow the natural linear thermal expansion of sheet, the drilled hole should be at least 1.5mm times the diameter of the mounting screw & a rubber washer should be utilized in between

1. The sheets should be screwed to purlins with fasteners not exceeding 200mm centers
2. Vinyl Lap seal or mastic must be used between when fastening to steel

### Trafficability

Roofs are dangerous places to work and it is recommended that the following information be included In the " Health & Safety file"

No person should have access to a roof unless the direct supervision of an experienced roofer who should be sufficiently competent to assess any risks and take the necessary action to reduce such Risks.

Do not walk on roof lights at any time, ALWAYS use crawling boards.