



PROFILED SHEET

SPECIFICATIONS OF ALUMINIUM

Alloy & Temper

Aluminium alloy used in production of the profiled sheets is either AA3105 OR AA3003 with temper of H16.

Mechanical Properties

Ultimate Tensile Strength - Min 152 N/mm²

Yield Strength - Min 124 N/mm²

Modulus of elasticity - 69000 N/mm²

Co-efficient of Linear Thermal Expansion - 24×10^{-6} per deg C

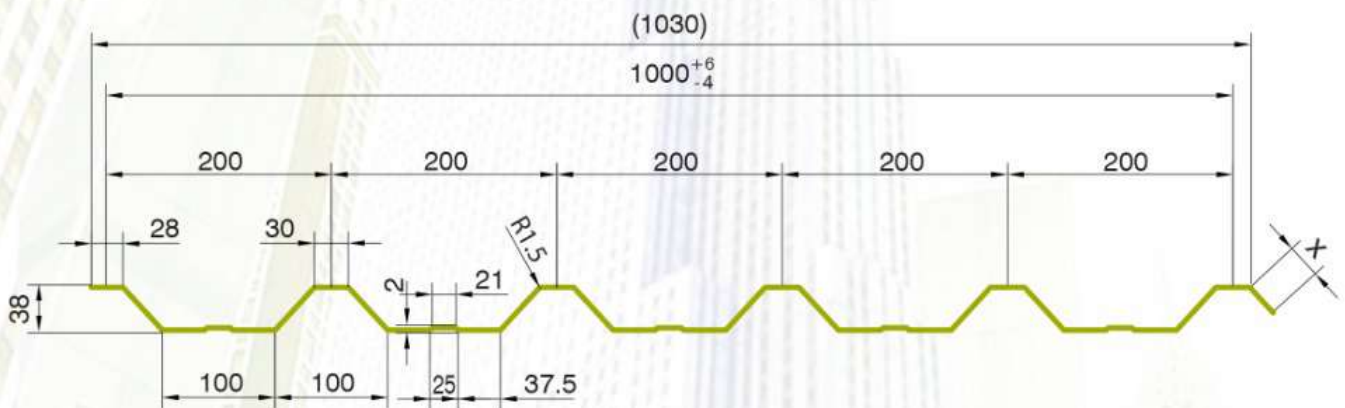
Fire Property

Aluminium is classified as a non-combustible material.

Surface Finishes

Mill Finish - This is the natural untreated surface of the metal as it leaves the rolling mill.

Polyester Coated - Polyester is an economical long life coating with external coating of 17-22 microns and internal 5-8 microns service coat. External coating will be available in both RAL & BS colour shades. Internal coating is standard grey colour but on request can be supplied in other RAL



Allowable Working Load Chart

N/m²

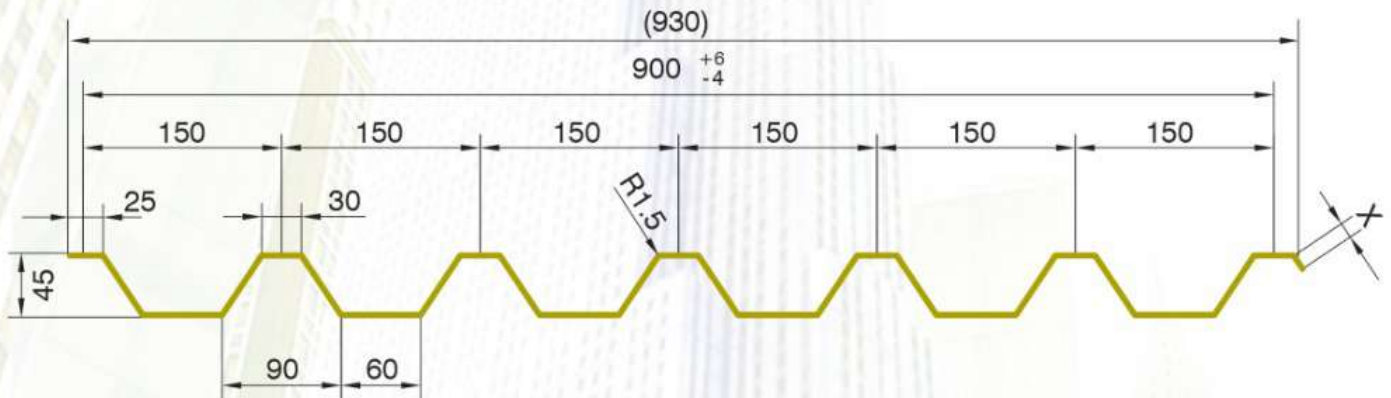
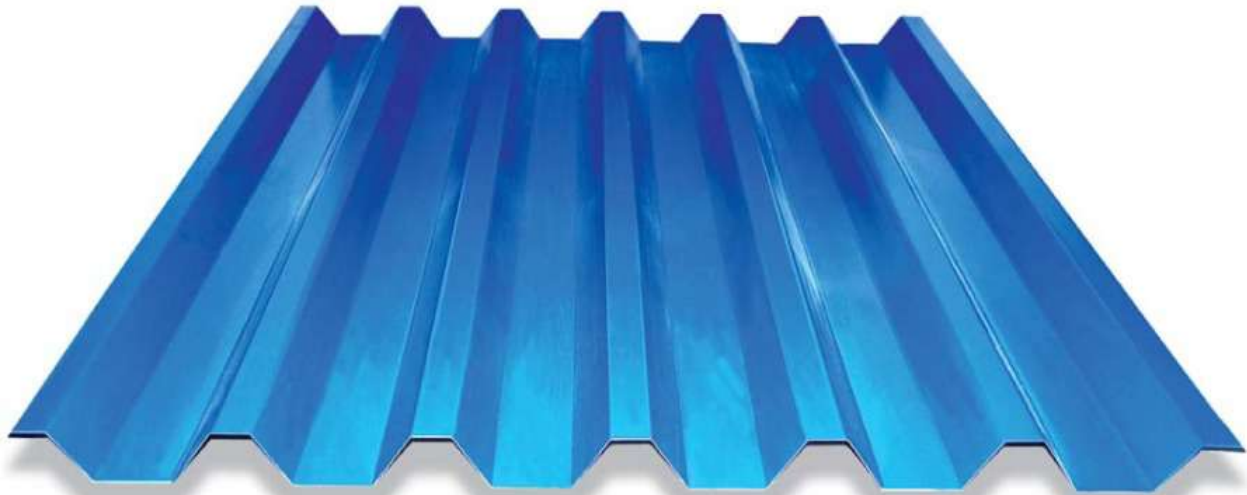
Thickness in mm	0.50	0.60	0.70	0.80	0.90	1.00	1.20
Weight Kgs/Sqm	1.653	1.984	2.314	2.645	2.976	3.306	3.967
MI mm ⁴ /M	125981	150116	173906	197353	220460	243231	287776
Z- Top	5024	5989	6941	7881	8808	9723	11514
Z- Bottom	9748	11605	13432	15229	16996	18735	22124
Span in mm	Δ Δ	Δ Δ Δ	Δ Δ	Δ Δ Δ	Δ Δ	Δ Δ Δ	Δ Δ Δ
1000	2225	2780	2653	3316	3074	3842	3490
1250	1424	1780	1698	2122	1968	2460	2234
1500	989	1236	1179	1474	1366	1708	1551
1750	632	908	753	1083	872	1255	990
2000	423	677	504	807	584	935	663

Allowable Working Loads are in N/m² and Limiting Deflection L/200
All are Nominal Values

Δ Δ = Single Span,

Δ Δ Δ = Multi Span

PROFLED SHEET - BL 45\150 ALUMINUM



Allowable Working Load Chart

N/m²

Thickness in mm	0.50	0.60	0.70	0.80	0.90	1.00	1.20
Weight Kgs/Sqm	1.837	2.204	2.571	2.939	3.306	3.674	4.408
MI mm ⁴ /M	198571	236756	274441	311630	348329	384540	455519
Z- Top	7671	9147	10605	12044	13464	14866	17616
Z-Bottom	10389	12385	14353	16295	18210	20098	23798
Span in mm	Δ Δ	Δ Δ Δ	Δ Δ Δ	Δ Δ Δ	Δ Δ Δ	Δ Δ Δ	Δ Δ Δ
1000	3324	4156	3962	4954	4592	5740	5214
1250	2128	2660	2536	3170	2938	3674	3337
1500	1478	1846	1760	2202	2040	2552	2316
1750	996	1356	1187	1618	1376	1875	1563
2000	667	1039	795	1238	922	1434	1046
	5826	7284	6430	8038	7614	9518	8820
	3728	4662	4116	5144	4874	6092	5616
	2590	3237	2858	3572	3384	4230	3916
	1746	2378	1929	2625	2285	3108	2784
	1170	1820	1292	2010	1530	2380	2016

Allowable Working Loads are in N/m² and Limiting Deflection L/200
All are Nominal Values

Δ Δ = Single Span,

Δ Δ Δ = Multi Span

SPECIFICATIONS OF STEEL

Steel profiled sheets shall be either of Aluzinc Coated (55% Aluminium, 45% Zinc Alloy) OR Zinc coated.

Alloy and Temper

The base material shall confirm either ASTM A653 / ASTM A653M Lock Forming Quality OR Structural Quality Grade D (Subject to Availability) OR Zincalume coated conforming to ASTM A792M.

Mechanical Properties

Ultimate Tensile Strength - Min 350 N/mm²

Yield Strength - Min 250 N/mm²

Modulus of Elasticity - 200000 N/mm²

Co-efficient of Linear Thermal Expansion - 13×10^{-6} per deg C

Fire Property

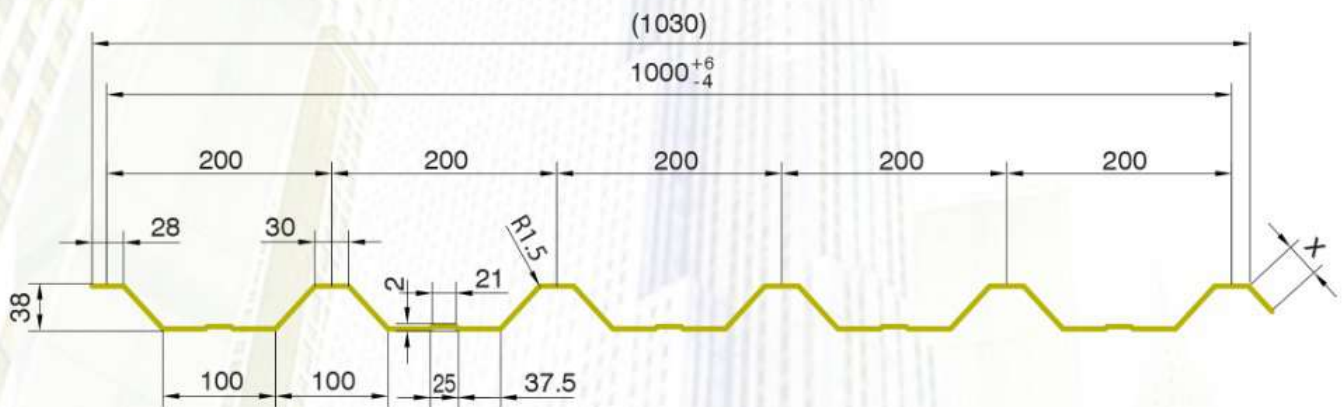
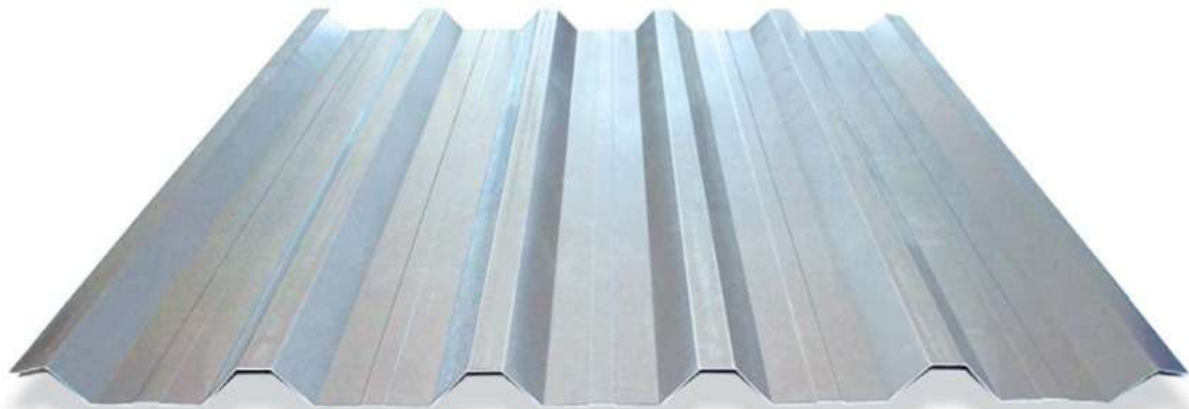
Steel is classified as a non-combustible material.

Surface Finishes

Mill Finish - This is the hot dip galvanized finish with Regular Spangle OR Minimum Spangle OR Skin Passed and Chromated surface. In Case of Zincalume it is surface treated natural finish.

Polyester Coated - Polyester is an economical long life coating with external coating of 17-22 microns and internal 5-8microns service coat. External coating will be available in both RAL & BS colour shades. Internal coating is standard grey colour but on request can be supplied in other RAL shades.

PROFILED SHEET - BL 38\200 STEEL



Allowable Working Load Chart

N/m²

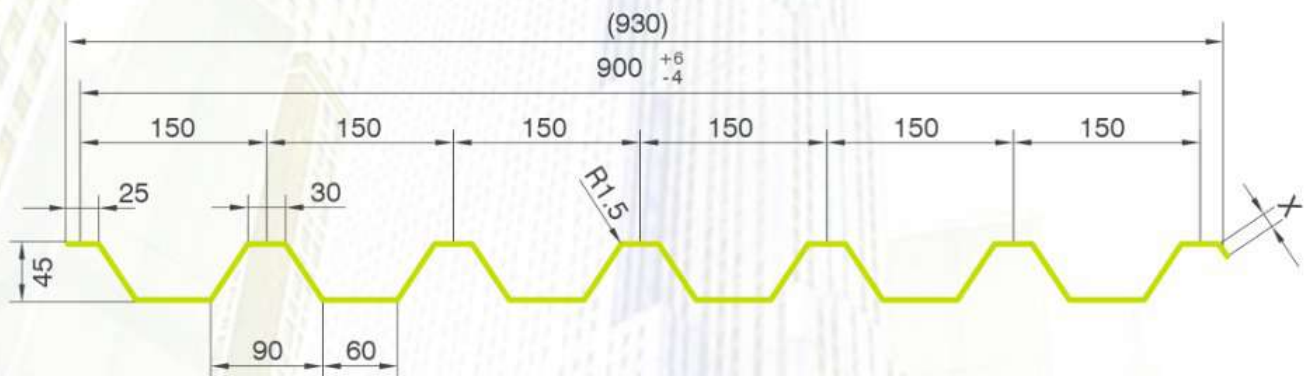
Thickness in mm	0.40		0.46		0.50		0.60		0.70		0.80		0.90	
Weight Kgs/Sqm	3.831		4.405		4.789		5.746		6.704		7.662		8.619	
MI mm ⁴ /M	101496		116229		125981		150116		173906		197353		220460	
Z- Top	4045		4634		5052		5989		6941		7881		8808	
Z-Bottom	7861		8997		9748		11605		13432		15230		16997	
Span in mm	Δ Δ	Δ Δ Δ	Δ Δ	Δ Δ Δ	Δ Δ	Δ Δ Δ	Δ Δ	Δ Δ Δ	Δ Δ	Δ Δ Δ	Δ Δ	Δ Δ Δ	Δ Δ	Δ Δ Δ
1000	3863	4829	4426	5532	4798	5997	5720	7150	6629	8287	7527	9408	8412	10515
1250	2473	3091	2832	3540	3071	3838	3661	4576	4243	5303	4817	6021	5384	6730
1500	1717	2146	1967	2459	2132	2665	2542	3178	2946	3482	3345	4181	3739	4673
1750	1262	1577	1445	1806	1567	1958	1868	2335	2165	2706	2458	3072	2747	3433
2000	966	1207	1106	1383	1199	1499	1430	1787	1657	2072	1882	2352	2103	2629

Allowable Working Loads are in N/m² and Limiting Deflection L/200

Δ Δ = Single Span,

Δ Δ Δ = Multi Span

PROFILED SHEET - BL 45\150 STEEL



Allowable Working Load Chart

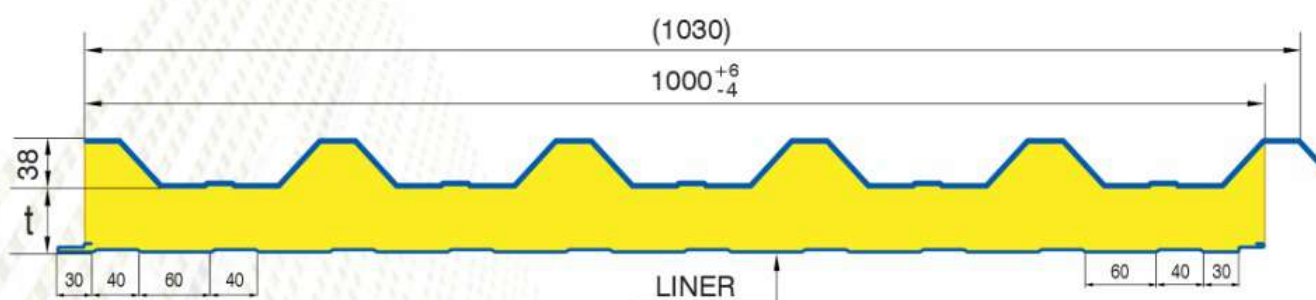
N/m²

Thickness in mm	0.40	0.46	0.50	0.60	0.70	0.80	0.90
Weight Kgs/Sqm	4.256	4.895	5.321	6.385	7.449	8.513	9.577
MI mm ⁴ /M	159883	183157	198571	236756	274441	311630	348329
Z- Top	6175	7075	7671	9147	10605	12044	13464
Z-Bottom	8367	9584	10389	12385	14353	16295	18210
Span in mm	Δ Δ	Δ Δ Δ	Δ Δ Δ	Δ Δ Δ	Δ Δ Δ	Δ Δ Δ	Δ Δ Δ
1000	5773	7216	6613	8266	7169	8961	8545
1250	3695	4619	4232	5290	4588	5735	5469
1500	2566	3207	2939	3674	3186	3983	3798
1750	1885	2356	2159	2699	2341	2926	2790
2000	1443	1804	1653	2066	1792	2240	2136

Allowable Working Loads are in N/m² and Limiting Deflection L/200

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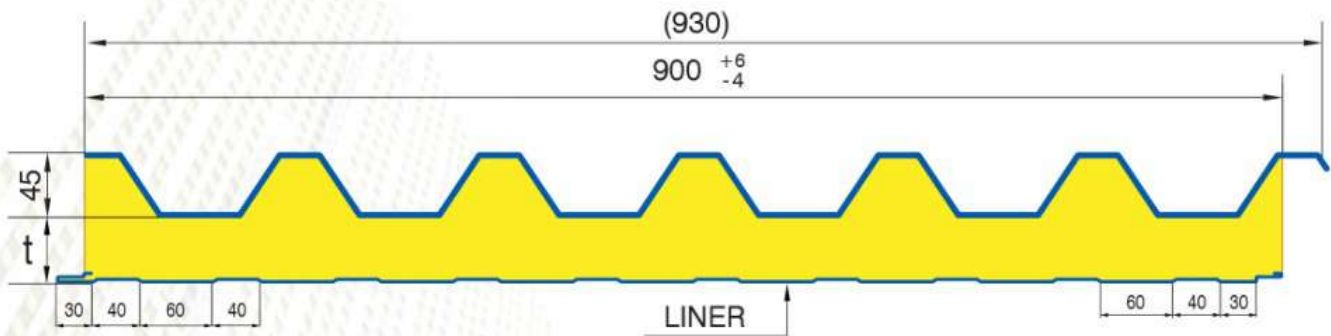


General Characteristics

- Mechanical Properties of PU Foam
(At Overall Density of 35 - 37 Kgs / M3)

Tensile Strength	:	150 kpa
Compression Resistance	:	100 kpa
Shear resistance	:	100kpa
Fire Property	:	B3 as per DIN 4103 (B2 upon request)
- Insulation
K Value (Thermal Conductivity of PU) – 0.022 W/mK (Tolerance +/- 0.002)
- Water Absorption of PU Foam
After 24 Hours : 1.00% of Volume.
- Closed Cell Content : 92 % Minimum

PU Thickness in MM(t)	35	50	75	100
U-Value in W/m2 K	0.54	0.39	0.27	0.21



General Characteristics

a. Mechanical Properties of PU Foam

(At Overall Density of 35 -37 Kgs / M3)

Tensile Strength	:	150 kpa
Compression Resistance	:	100 kpa
Shear resistance	:	100kpa
Fire Property	:	B3 as per DIN 4103 (B2 upon request)

b. Insulation

K- Value (Thermal Conductivity of PU) – 0.022 W/mK (Tolerance +/- 0.002)

c. Water Absorption of PU Foam

After 24 Hours : 1.00% of Volume.

d. Closed Cell Content : 92 % Minimum

PU Thickness in MM(t)	35	50	75	100
U-Value in W/m2 K	0.54	0.39	0.27	0.21



General Characteristics

- a. Mechanical Properties of PU Foam
(At Overall Density of 35 -37 Kgs / M3)

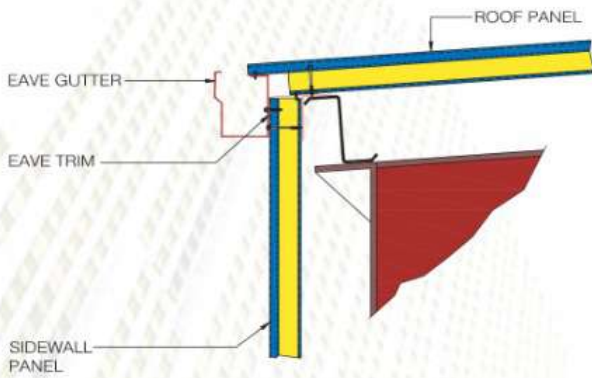
Tensile Strength	:	150 kpa
Compression Resistance	:	100 kpa
Shear resistance	:	100kpa
Fire Property	:	B3 as per DIN 4103 (B2 upon request)

- b. Insulation
K- Value (Thermal Conductivity of PU) – 0.022 W/mK (Tolerance +/- 0.002)

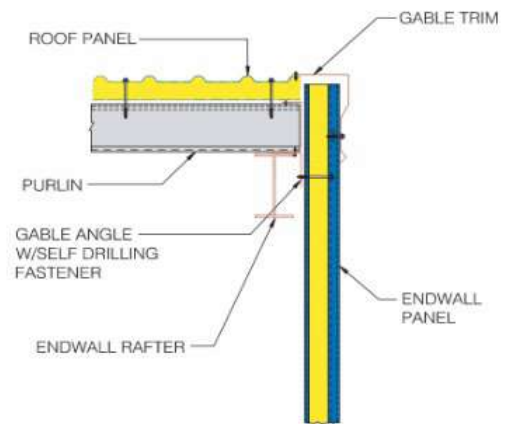
- c. Water Absorption of PU Foam
After 24 Hours : 1.00% of Volume.

- d. Closed Cell Content : 92 % Minimum

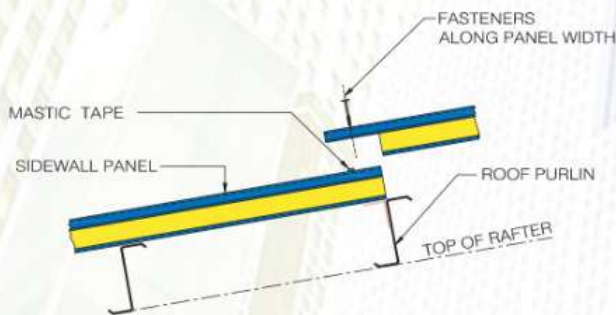
PU Thickness in MM(t)	50	75	100	150
U-Value in W/m ² K	0.48	0.31	0.23	0.15



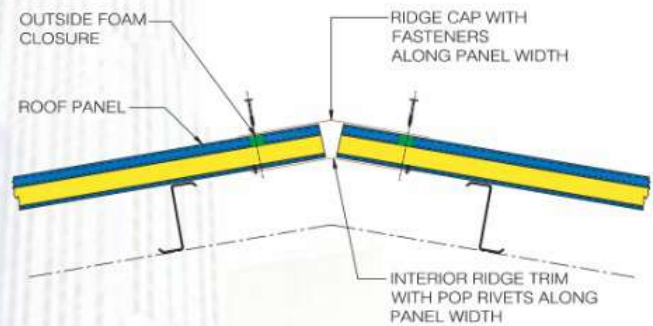
ROOF AND WALL PANEL AT EAVE



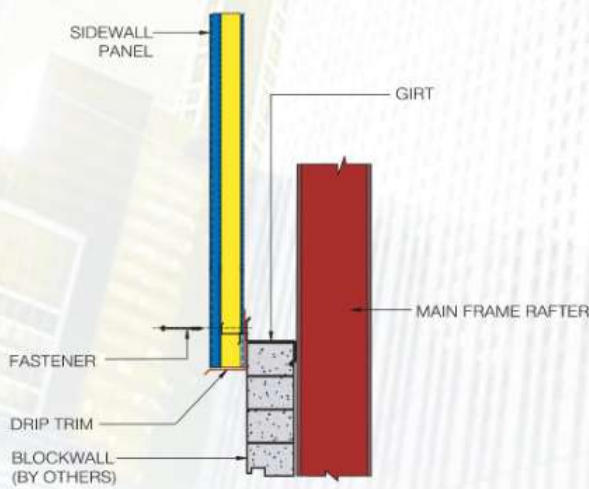
ROOF AND WALL PANEL AT GABLE



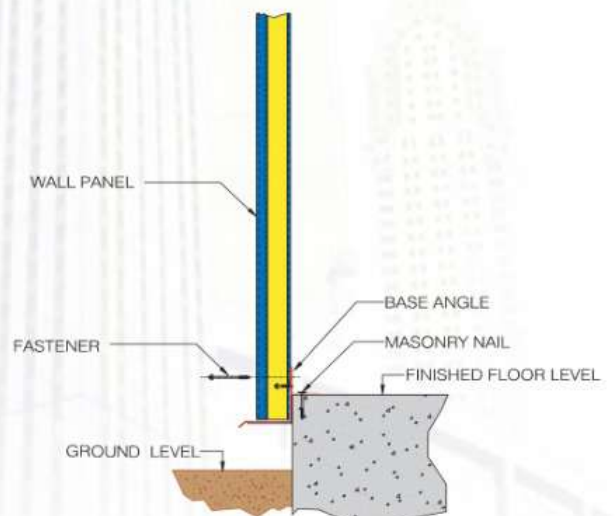
ROOF PANEL AT END LAP



ROOF PANEL AT RIDGE



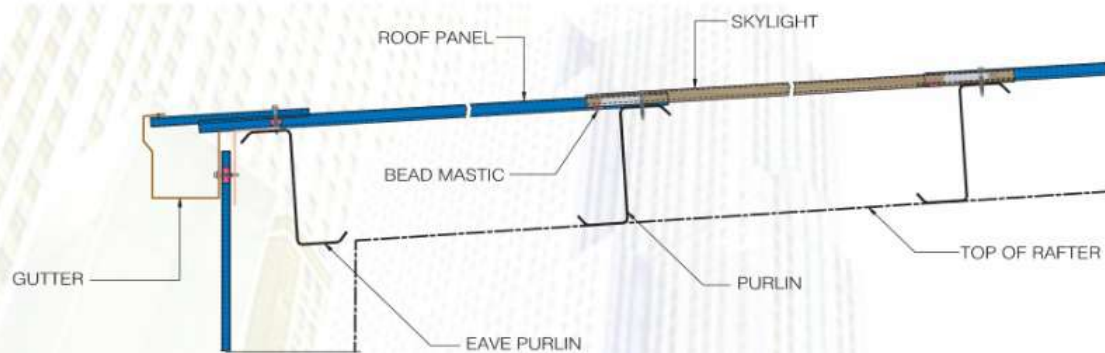
WALL PANEL ABOVE BLOCKWALL



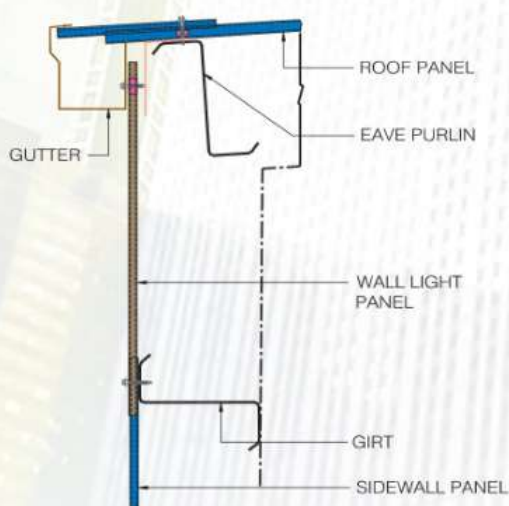
WALL PANEL AT FINISHED FLOOR



SKYLIGHT SHEET



SKYLIGHT SHEET AT ROOF



SKYLIGHT SHEET AT WALL



SECTION-A: ROOF SIDE PANEL



SECTION-B: WALL SIDE PANEL

COLOUR CHART



STANDARD PANEL COLOUR CHART



RAL 1014



RAL 5012



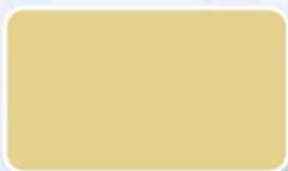
RAL 6021



RAL 9002

NON-STANDARD PANEL COLOUR CHART

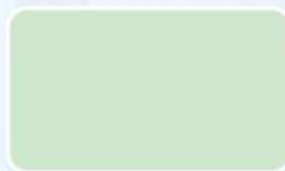
(Available on Request at Extra Cost)



RAL 1001



RAL 5015



RAL 6019



RAL 9001



RAL 1013



RAL 5010



RAL 6027



RAL 9006



RAL 1015



RAL 5024



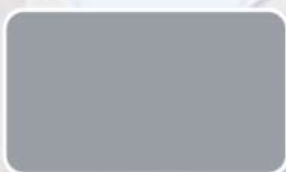
RAL 6029



RAL 9010



RAL 7035



RAL 7040



RAL 7047



RAL 3000

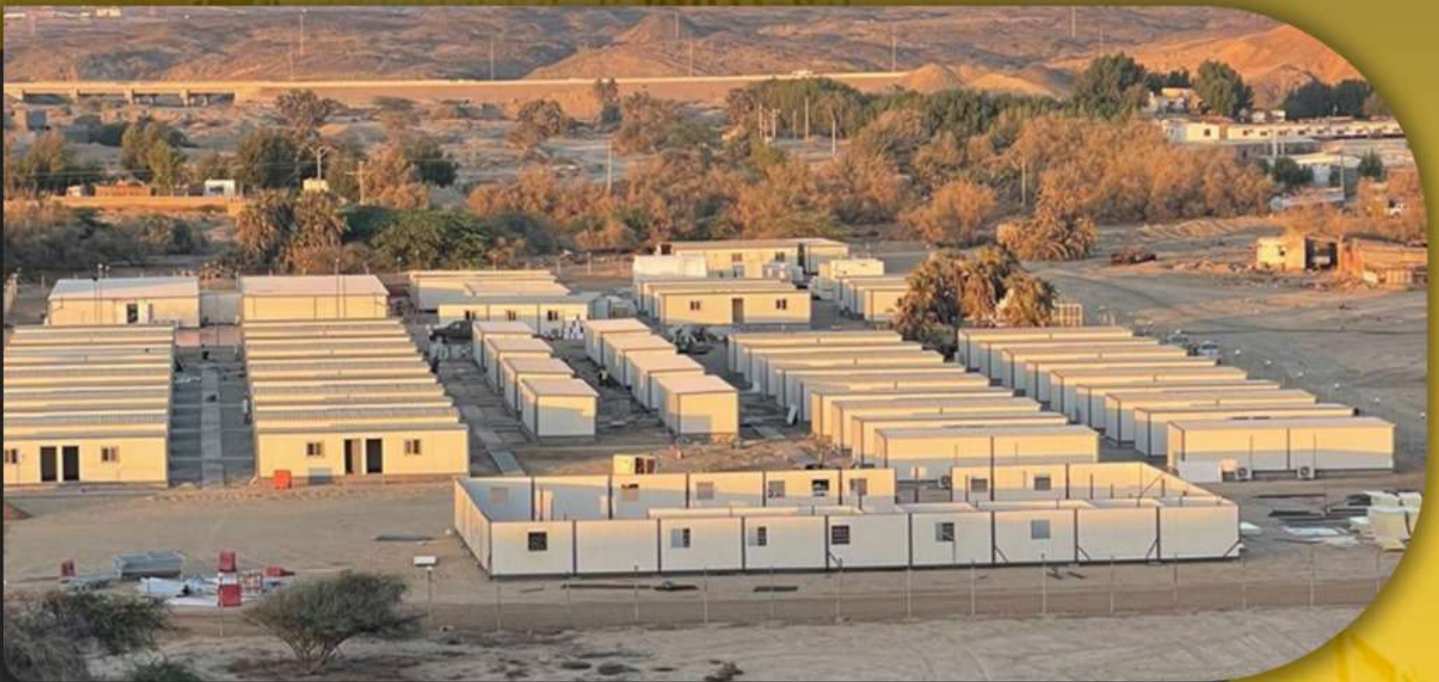
* Actual colour may vary from these printed colours.

* You are advised to obtain a metal sample for specific colour.

PROJECTS



PROJECTS



PROJECTS

