



عيسى خان لصناعة الاشغال المعدنية شركة الشخص الواحد ذ م م

**ESSA KHAN METAL IND SOLE
PROPRIETORSHIP LLC**

SANDWICH PANELS

FLAT PANELS

PROFILE SHEETS

CURVES

FLASHING TRIMS

Z-PURLINS



**PRODUCT
CATALOGUE**

COMPANY'S VISION

Our vision is to deliver excellent value to our Clients as an innovative and dynamic Insulated Cladding Manufacturer.

OUR MISSION

To develop lasting Client relationships by providing exceptional value in an environment of trust and respect.

CORE VALUES

We work collaboratively towards a common purpose and shared goals.

We embrace change and innovation to help our Clients.

We are authentic in our interactions and communicate openly, honestly and respectfully.

We deliver the best possible insulated cladding material and take pride in our work built on quality and integrity.

CONTENTS

• Introduction	01
• Profiled Sheet ~ Aluminium	02
EK 38/200 Aluminium	03
EK 45/250 Aluminium	04
EK TILE 42/200 Aluminium	05
• Profiled Sheet ~ Steel	06
EK 38/200 Steel	07
EK 45/250 Steel	08
EK TILE 42/200 Steel	09
• EK Insulated Sandwich Panel	10
EK 38/200 Sandwich Panel	11
EK 45/250 Sandwich Panel	12
EK Flat Sandwich Panel	13
EK Tile Sandwich Panel	14
• EK Z-Section Purlins	15
• Purlins ~ Installation Details	20
• Sandwich Panel ~ Installation Details	21
• Skylight Sheet ~ Installation Details	22
• Flashing Trims ~ Details	23
• Accessories	24
• Colour Chart	25
• Building Terminology	26

We at **Essa Khan Metal Ind Sole Proprietorship LLC** operate on a policy of continuous improvement and development reserving the right to change the specifications and the materials for the products mentioned in this catalogue without prior notice. Drawings are given for illustrative purpose only.

INTRODUCTION

ESSA KHAN METAL IND SOLE PROPRIETORSHIP LLC was established in August 2021 to cater to the needs of the increasing demand for high quality cladding material. We specialize in manufacture of Insulated Sandwich Panels, Flat Panels, Profile Sheets, Curves, Flashing Trims and Z-purlins.

Current Production Capacity:

- Single Skin Profiled Sheets ~ 100,000 Sqm per Month
- Insulated Sandwich Panels ~ 30,000 Sqm per Month
- Z-purlins ~ 50,000 LM per Month

Commitment:

Our experienced and dedicated staff are committed to providing the best possible advice for all your cladding requirements. We are committed to providing a cost-effective solution to our Clients thorough proper review of Client specifications, precision manufacturing and reliable delivery without compromising of the quality, aesthetics and environmental aspects. Thus, ensuring customer satisfaction is at its highest level.

PROFILED SHEET ~ ALUMINIUM

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

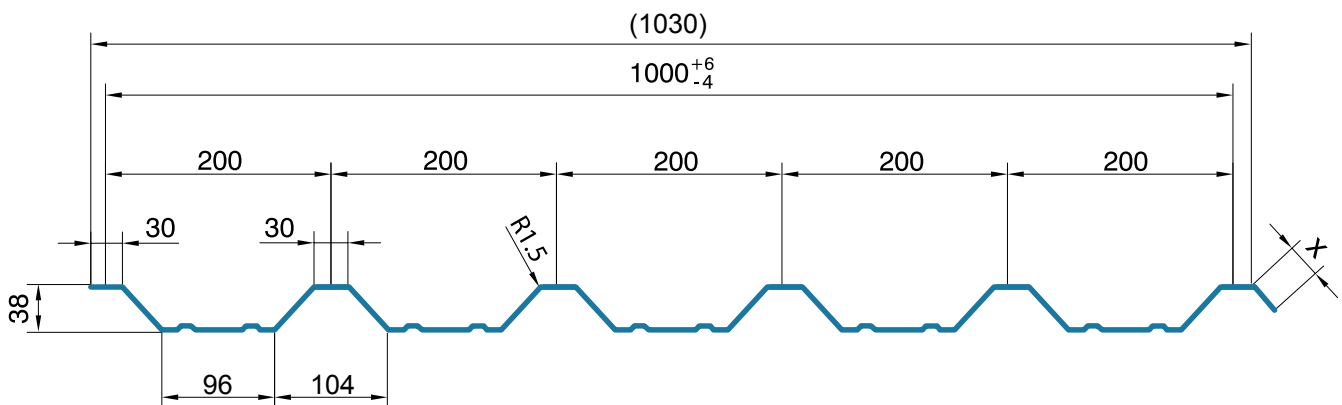
Aluminium is classified as a non-combustible material.

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 shades.

PROFILED SHEET ~ EK 38 / 200 ALUMINIUM



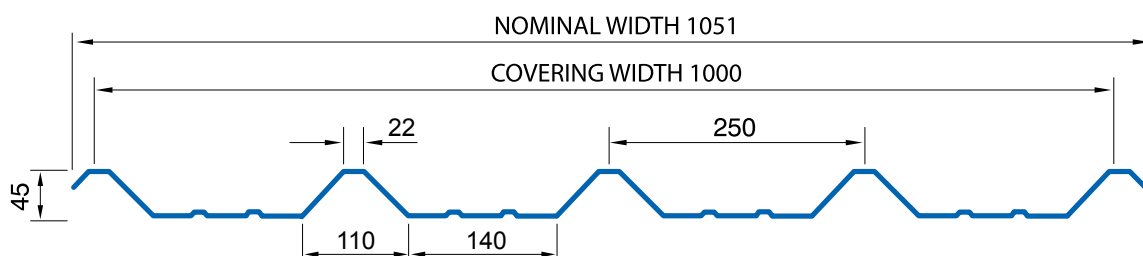
Allowable Working Loads (N/m^2)

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	
Span in mm	S	M	S	M	S	M	S	M	S	M	S	M	S	M
1000	2225	2780	2653	3316	3074	3842	3490	4362	3902	4876	4306	5382	5100	6374
1250	1424	1780	1698	2122	1968	2460	2234	2792	2497	3121	2756	3445	3264	4080
1500	989	1236	1179	1474	1366	1708	1551	1939	1734	2167	1914	2392	2267	2833
1750	632	908	753	1083	872	1255	990	1425	1106	1592	1220	1758	1443	2082
2000	423	677	504	807	584	935	663	1061	741	1185	817	1308	967	1547

Allowable Working Loads are in N/m^2 and Limiting Deflection $L/200$
All are Nominal Values

S = Single Span, M = Multi Span

PROFILED SHEET ~ EK 45 / 250 ALUMINIUM



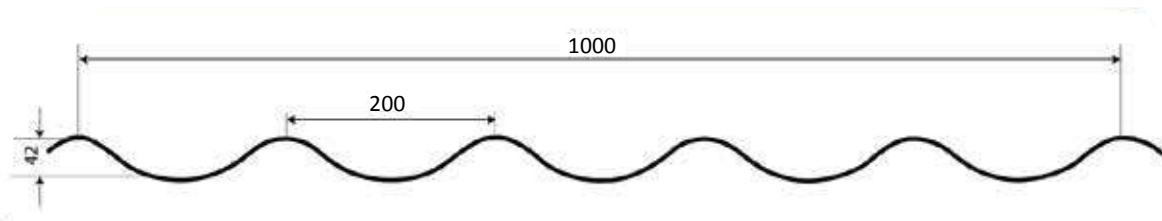
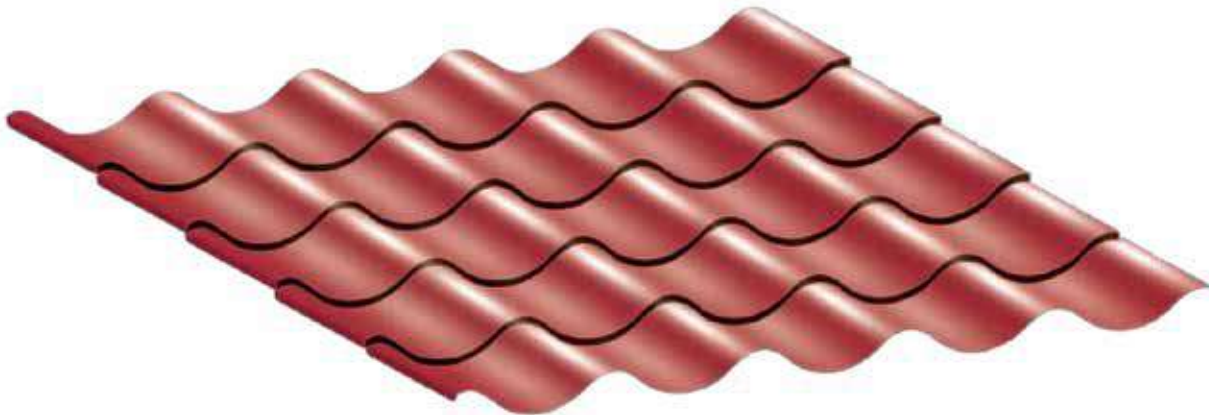
Allowable Working Loads (N/m^2)

Thickness in mm	0.50		0.60		0.70		0.80		0.90		1.00		1.20	
Weight Kgs/Sqm	1.645		1.974		2.303		2.633		2.962		3.291		3.949	
Span in mm	S	M	S	M	S	M	S	M	S	M	S	M	S	M
1000	2100	2626	2506	3133	2908	3634	3304	4130	3696	4620	4084	5105	4845	6057
1250	1344	1680	1604	2005	1861	2326	2115	2643	2366	2957	2614	3267	3101	3876
1500	934	1167	1114	1392	1292	1615	1469	1836	1643	2054	1815	2269	2154	2692
1750	686	857	818	1023	949	1187	1079	1349	1207	1509	1333	1667	1582	1978
2000	508	656	606	783	702	909	798	1033	892	1155	985	1276	1167	1514

Allowable Working Loads are in N/m^2 and Limiting Deflection $L/200$
All are Nominal Values

S = Single Span, M = Multi Span

PROFILED SHEET ~ EK TILE 42 / 200 ALUMINIUM



Allowable Working Loads (N/m^2)

Thickness in mm	0.50		0.60		0.70		0.80		0.90		1.00	
Weight Kgs/Sqm	1.50		1.80		2.10		2.40		2.71		3.01	
Span in mm	S	M	S	M	S	M	S	M	S	M	S	M
1000	4660	6860	5590	8210	6520	9560	7460	10900	8390	12240	9310	13520
1250	2390	4390	2860	5250	3240	6120	3820	6980	4300	7830	4770	8650
1500	1380	3050	1660	3650	1930	4250	2210	4840	2490	5440	2760	6010
1750	870	2240	1040	2680	1220	3120	1390	3560	1570	4000	1740	4410
2000	580	1660	700	2000	820	2330	930	2660	1050	990	1160	3330

Allowable Working Loads are in N/m^2 and Limiting Deflection $L/200$
All are Nominal Values

S = Single Span, M = Multi Span

PROFILED SHEET ~ STEEL

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 conform either to ASTM A653 / ASTM A653M Commercial Steel or Structural Steel (subject to availability) or Zinalume 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

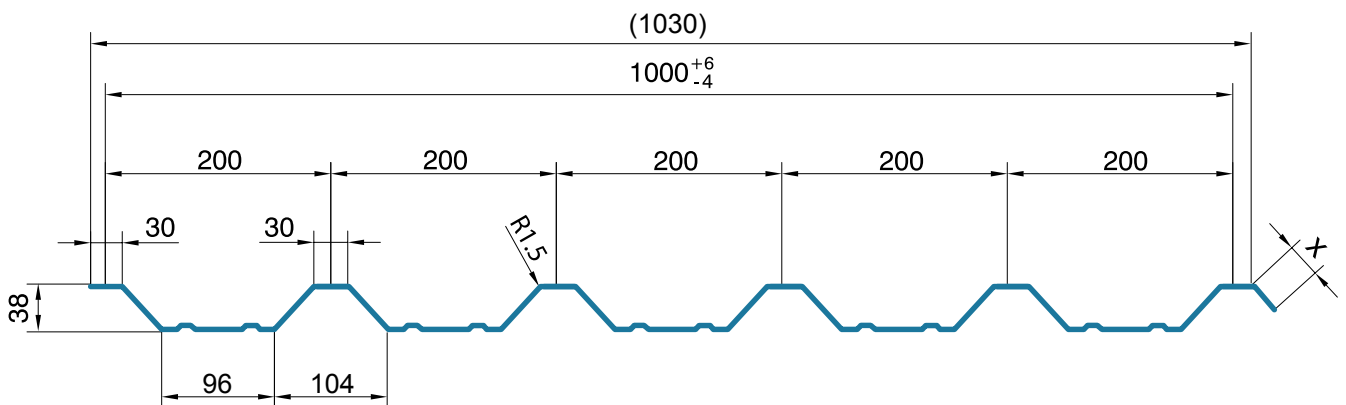
Steel is classified as a non-combustible material.

Surface Finishes

Mill Finish ~ This is the hot dip galvanized finish with Regular Spangle or Minimized Spangle or Skin Passed and Chromated surface.

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 shades.

PROFILED SHEET ~ EK 38 / 200 STEEL (GI)



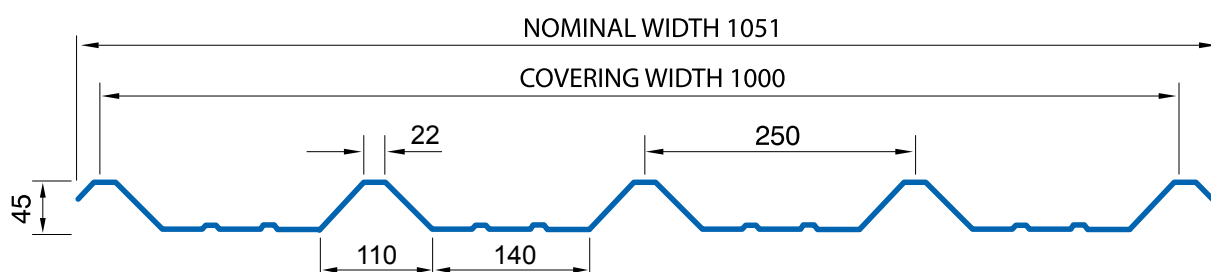
Allowable Working Loads (N/m^2)

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	
Span in mm	S	M	S	M	S	M	S	M	S	M	S	M	S	M
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/m^2 and Limiting Deflection $L/200$
All are Nominal Values

S = Single Span, M = Multi Span

PROFILED SHEET ~ EK 45 / 250 STEEL (GI)



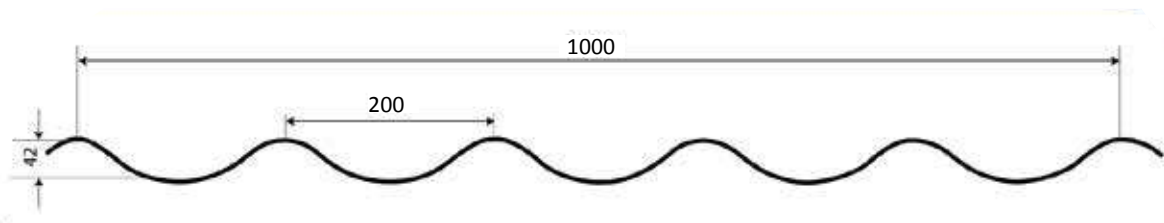
Allowable Working Loads (N/m^2)

Thickness in mm	0.50		0.60		0.70		0.80		0.90		1.00	
Weight Kgs/Sqm	4.78		5.74		6.70		7.66		8.61		9.57	
Span in mm	S	M	S	M	S	M	S	M	S	M	S	M
1000	7890	9870	9450	11820	11000	13770	12560	15710	14100	17640	15640	19570
1250	5050	6320	6050	7560	7040	8810	8040	10050	9030	11290	10010	12520
1500	3510	4390	4200	5250	4890	6120	5580	6980	6270	7840	6950	8690
1750	2440	3220	2930	3860	3410	4490	3900	5130	4390	5760	4880	6390
2000	1630	2470	1960	2950	2290	3440	2610	3930	2940	4410	3270	4890

Allowable Working Loads are in N/m^2 and Limiting Deflection $L/200$
All are Nominal Values

S = Single Span, M = Multi Span

PROFILED SHEET ~ EK TILE 42 / 200 STEEL (GI)



Allowable Working Loads (N/m^2)

Thickness in mm	0.50		0.60		0.70		0.80		0.90		1.00	
Weight Kgs/Sqm	4.33		5.20		6.07		6.93		7.80		8.66	
Span in mm	S	M	S	M	S	M	S	M	S	M	S	M
1000	8290	10370	9930	12420	11560	14460	13180	16490	14800	18520	16350	20450
1250	5310	6640	6350	7950	7400	9250	8440	10550	9480	11850	10460	13090
1500	3680	4610	4410	5520	5140	6420	5860	7330	6580	8230	7270	9090
1750	2550	3390	3060	4050	3560	4720	4080	5380	4590	6050	5090	6680
2000	1710	2590	2050	3100	2390	3610	2730	4120	3070	4630	3410	5110

Allowable Working Loads are in N/m^2 and Limiting Deflection $L/200$
All are Nominal Values

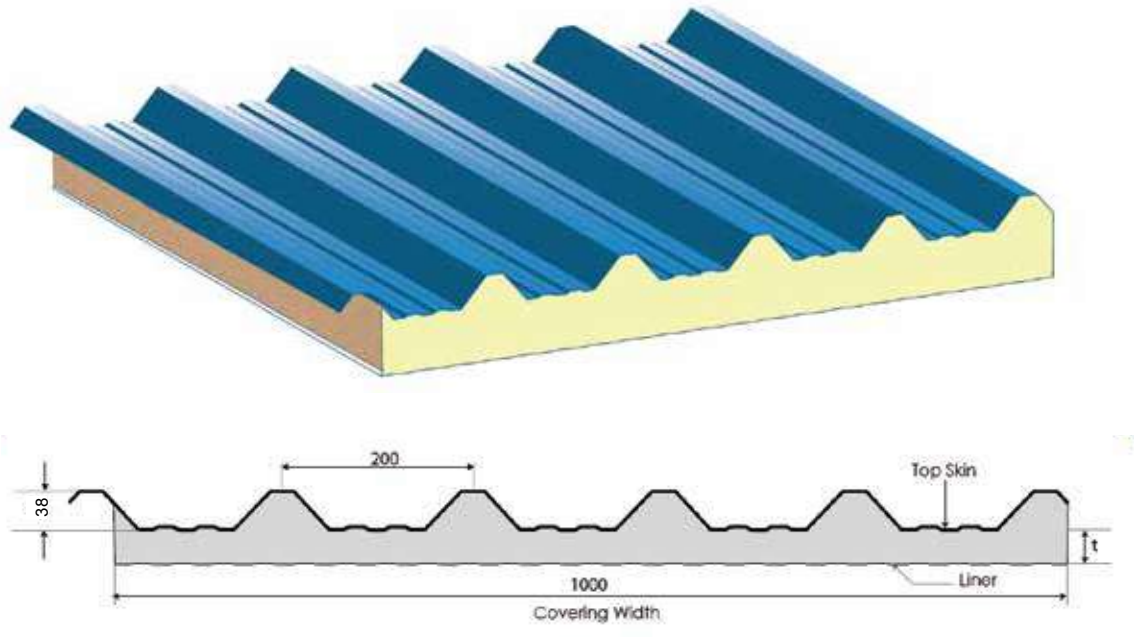
S = Single Span, M = Multi Span

EK INSULATED SANDWICH PANELS

EK Insulated Sandwich Panels range represents a complete system of pre-insulated panels used for building roofs and walls for various kinds of industrial and civil structures. The sandwich panel is produced using rigid polyurethane foam (PUR) thermal insulation injected at high density between the external facing in steel or aluminium and the internal facing in steel, aluminium or aluminium foil of varying thickness, coatings and color.

EK Insulated Sandwich Panels are highly durable, light weight and quick to install. They are pre-fabricated and shipped to job sites, where they are connected together to build walls, ceilings, floors and roofs of a building. Insulated Sandwich Panels also offer a long life, low maintenance, superior and uniform insulation, making the building comfortable, energy efficient and quieter.

SANDWICH PANEL ~ EK 38 / 200



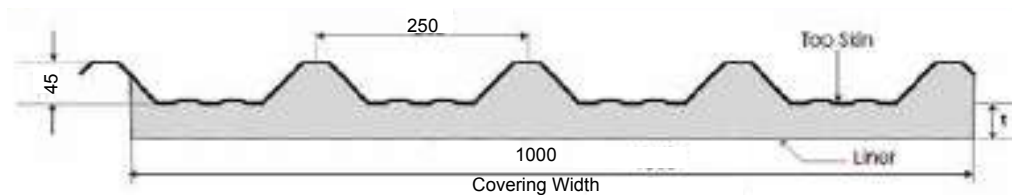
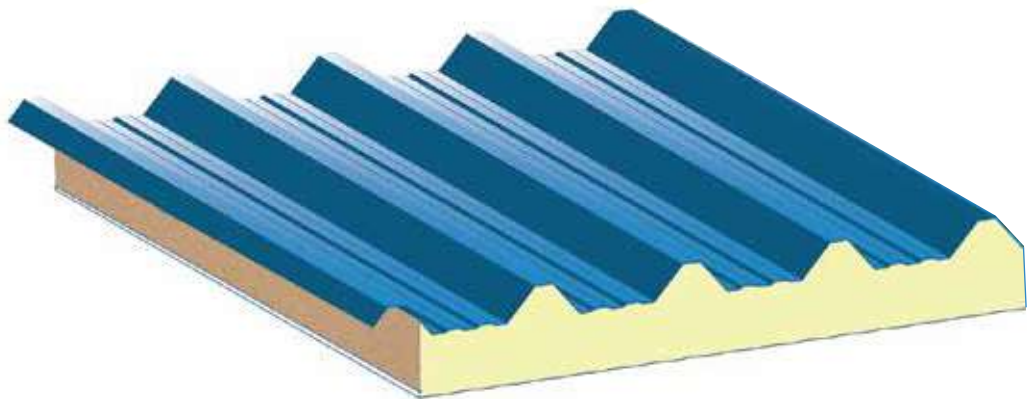
General Characteristics

- a. Mechanical Properties of PU Foam
(At Overall Density of 35 - 38 Kgs/M³)

Tensile Strength	:	150 kpa
Compression Resistance	:	100 kpa
Shear resistance	:	100kpa
Fire Property	:	B3 as per DIN 4102 (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
U-Value in W/m ² K	0.39	0.27	0.21

SANDWICH PANEL ~ EK 45 / 250



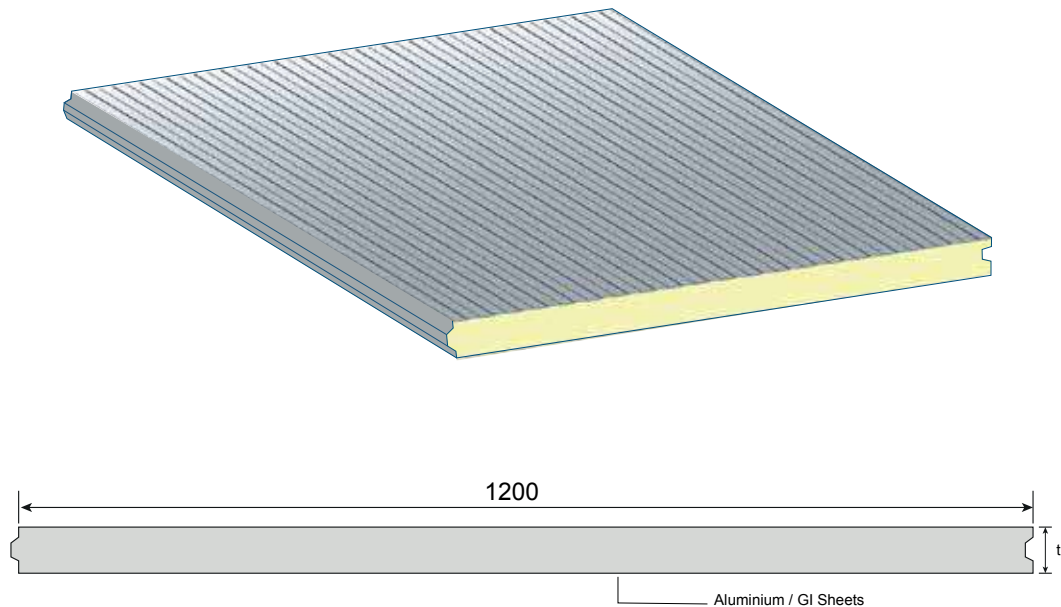
General Characteristics

- a. **Mechanical Properties of PU Foam**
(At Overall Density of 35 - 38 Kgs/M³)

Tensile Strength	:	150 kpa
Compression Resistance	:	100 kpa
Shear resistance	:	100kpa
Fire Property	:	B3 as per DIN 4102 (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
U-Value in W/m ² K	0.39	0.27	0.21

SANDWICH PANEL ~ EK FLAT



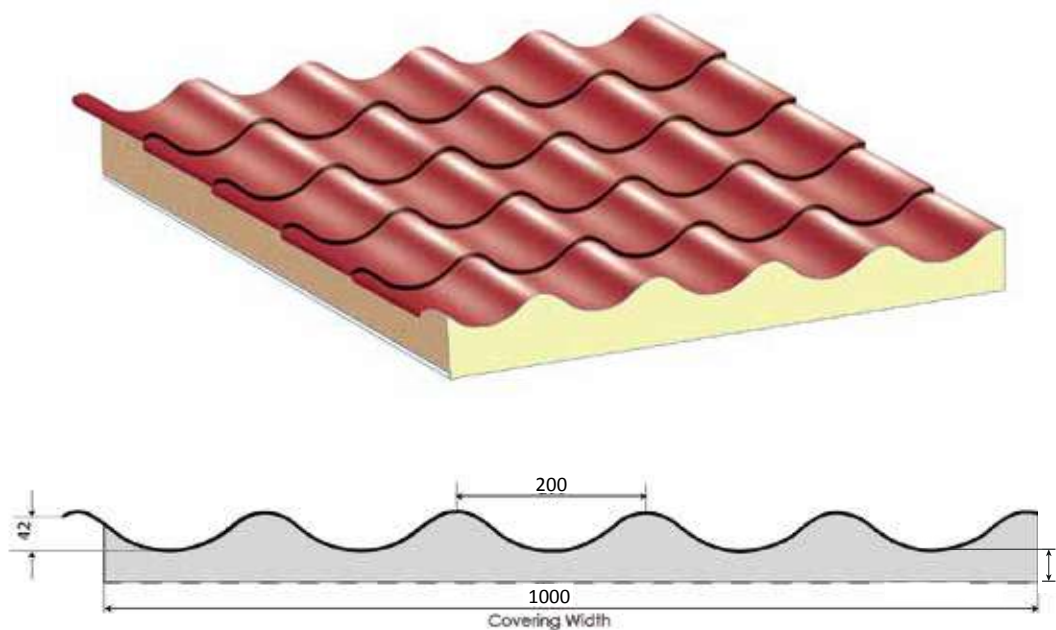
General Characteristics

- a. Mechanical Properties of PU Foam
(At Overall Density of 35 - 38 Kgs/M³)

Tensile Strength	:	150 kpa
Compression Resistance	:	100 kpa
Shear resistance	:	100kpa
Fire Property	:	B3 as per DIN 4102 (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	100
U-Value in W/m ² K	0.48	0.23

SANDWICH PANEL ~ EK TILE



General Characteristics

- a. Mechanical Properties of PU Foam
(At Overall Density of 35 - 38 Kgs/M³)

Tensile Strength	:	150 kpa
Compression Resistance	:	100 kpa
Shear resistance	:	100kpa
Fire Property	:	B3 as per DIN 4102 (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

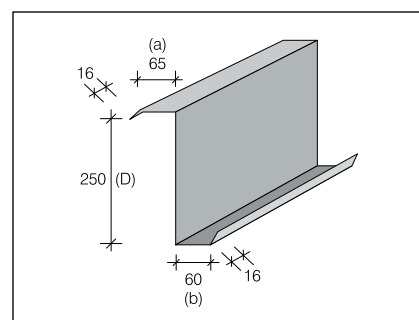
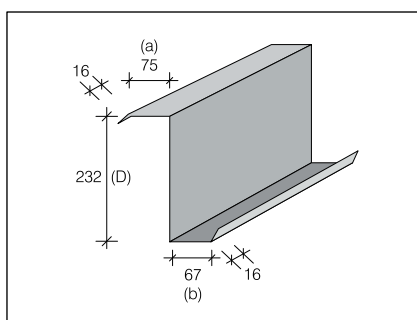
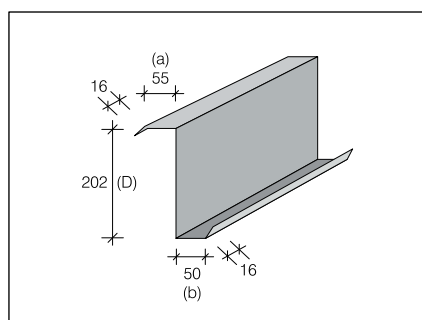
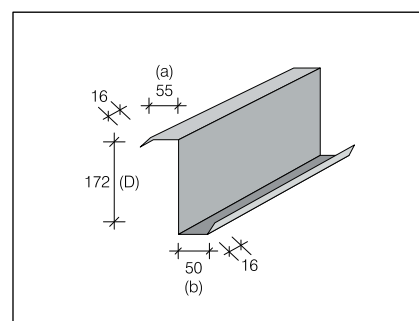
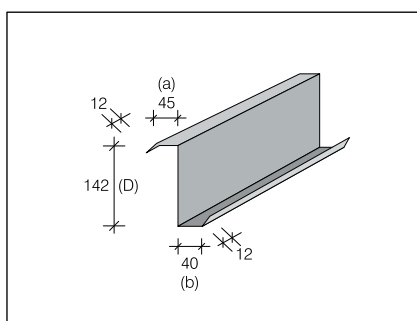
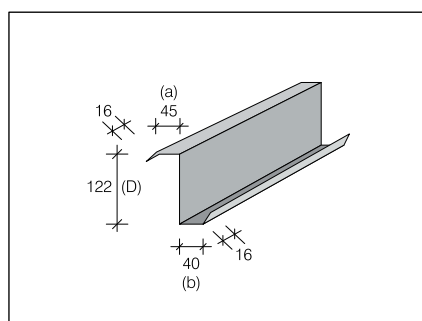
PU Thickness in MM(t)	50
U-Value in W/m ² K	0.39

EK Z~Section Purlins

EK Z~Section Purlins are secondary support for roofing sheets and insulated sandwich panels. Purlins are produced and used in a wide range of industrial and commercial applications. Purlins are roll formed from high strength zinc coated steel and provides an efficient, light weight economical solution for installation of roofing and cladding.

EK Z~Section Purlins are available in different sizes ranging from 142 to 250mm deep. A full range of accessories needed to completed the cladding and roofing works of the building can be supplied. The data sheets provide the technical information for the purlins and accessories ahead.

PURLINS ~ SECTIONAL DETAILS



Cold Formed "Z" Purlins Properties

Nominal Dimensions								Section Properties			
Purlins	Depth	Thickness	Top Flange	Bottom Flange	Lip	Weight	Area	Ixx	Zxx (top)	Zxx (bot)	ryy
	" D " mm	" t " mm	" a "mm	" b " mm	mm	Kgs / mtr	mm ²	cm ⁴	cm ³	cm ³	mm
EK122Z15	122	1.50	45	40	16	2.685	342	71	11.85	11.33	19.64
EK122Z20	122	2.00	45	40	16	3.580	456	92	15.44	14.75	19.31
EK122Z25	122	2.50	45	40	16	4.475	570	112	18.85	18.00	18.97
EK142Z15	142	1.50	45	40	12	2.814	359	102	14.64	14.04	18.81
EK142Z20	142	2.00	45	40	12	3.752	478	133	19.10	18.32	18.47
EK142Z25	142	2.50	45	40	12	4.690	598	162	23.37	22.40	18.14
EK172Z15	172	1.50	55	50	16	3.497	446	184	21.74	21.01	22.64
EK172Z20	172	2.00	55	50	16	4.663	594	241	28.49	27.52	22.31
EK172Z25	172	2.50	55	50	16	5.829	743	296	34.98	33.79	21.97
EK202Z15	202	1.50	55	50	16	3.850	491	270	27.20	26.36	21.55
EK202Z20	202	2.00	55	50	16	5.134	654	355	35.69	34.59	21.22
EK202Z25	202	2.50	55	50	16	6.417	818	436	43.89	42.53	20.89
EK232Z15	232	1.50	75	67	16	4.639	591	452	39.80	38.56	29.50
EK232Z20	232	2.00	75	67	16	6.186	788	595	52.30	50.68	29.10
EK232Z25	232	2.50	75	67	16	7.732	985	735	63.90	61.92	28.70
EK250Z15	250	1.50	65	60	16	4.639	591	501	40.59	39.56	24.74
EK250Z20	250	2.00	65	60	16	6.186	788	659	53.41	52.05	24.41
EK250Z25	250	2.50	65	60	16	7.732	985	813	65.87	64.18	24.08

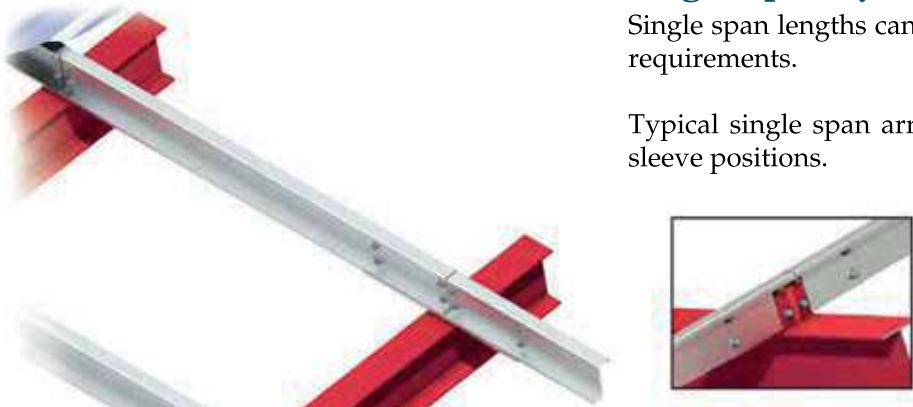
Hot Dip Galvanised Steel Coils Confirming to ASTM A653 is used for cold formed " Z " Purlins

PURLINS ~ DETAILS OF SLEEVES & CLEATS

Single Span System

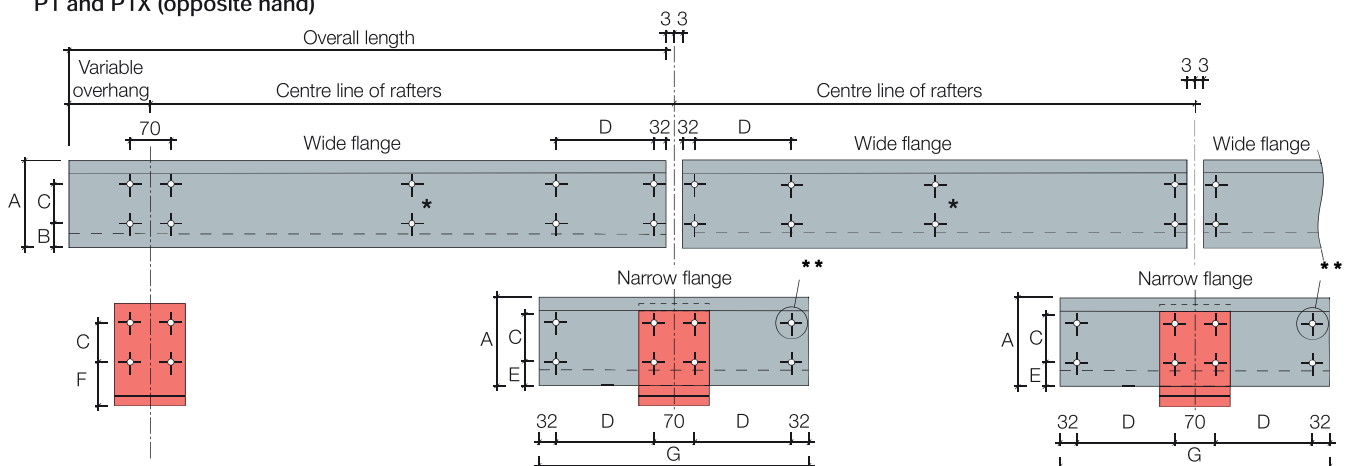
Single span lengths can be supplied to suit individual requirements.

Typical single span arrangement indicating purlin & sleeve positions.



P1	P2	P2	P2	P1X
P1	P2	P2	P2	P1X
P1	P2	P2	P2	P1X
P1	P2	P2	P2	P1X
P1	P2	P2	P2	P1X

P1 and P1X (opposite hand)



Sleeve Details (mm)

A	B	C	D	E	F	G
142	42	56	240	44	50	614
172	42	86	290	44	50	714
202	42	116	350	44	50	834
232	42	146	410	44	50	954
250	42	164	460	44	50	1054

Unless otherwise stated, all required holes are 14 X 20 slot for M12 bolts and are normally punched in pairs on standard gauge lines.

* Anti-sag rod holes wherever required.

** 8 hole sleeve for all size purlin.

PURLINS ~ LOAD CHART

(Dead + Wind) Loads in Working Stress

KN/m²

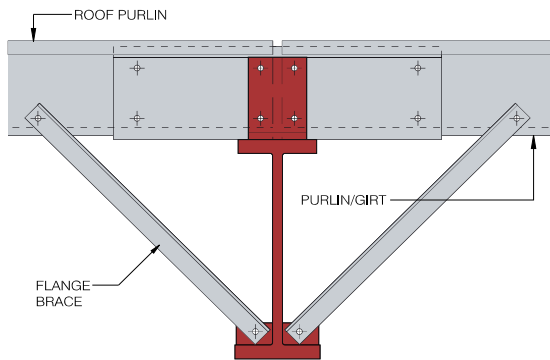
Purlin Span	Purlin Centre Distance	"Z" Purlin Sections									
in Mtrs	in Mtrs	EK122Z 15	EK122Z 20	EK142Z 15	EK142Z 20	EK172Z 15	EK172Z 20	EK202Z 15	EK 202Z 20	EK250Z 15	EK250Z 20
4.00	1.00	1.495	1.768	1.687	2.199	2.455	3.305	3.083	4.154	3.898	6.039
	1.25	1.196	1.414	1.350	1.759	1.964	2.644	2.466	3.323	3.118	4.831
	1.50	0.997	1.179	1.125	1.466	1.637	2.203	2.055	2.769	2.599	4.026
	1.75	0.854	1.010	0.964	1.257	1.403	1.889	1.762	2.374	2.227	3.451
4.50	1.00	1.181	1.397	1.333	1.737	1.940	2.611	2.436	3.282	3.080	4.772
	1.25	0.945	1.118	1.066	1.390	1.552	2.089	1.949	2.626	2.464	3.818
	1.50		0.931	0.889	1.158	1.293	1.741	1.624	2.188	2.053	3.181
	1.75		0.798	0.762	0.993	1.109	1.492	1.392	1.875	1.760	2.727
5.00	1.00	0.957	1.132	1.080	1.407	1.571	2.115	1.973	2.658	2.495	3.865
	1.25		0.906	0.864	1.126	1.257	1.692	1.578	2.126	1.996	3.092
	1.50			0.720	0.938	1.047	1.410	1.315	1.772	1.663	2.577
	1.75				0.804	0.898	1.209	1.127	1.519	1.426	2.209
5.50	1.00	0.791	0.935	0.892	1.163	1.298	1.748	1.631	2.197	2.062	3.194
	1.25				0.930	1.038	1.398	1.305	1.758	1.650	2.555
	1.50				0.775	0.865	1.165	1.087	1.465	1.375	2.129
	1.75					0.742	0.999	0.932	1.255	1.178	1.825
6.00	1.00				0.977	1.091	1.468	1.370	1.846	1.732	2.684
	1.25				0.782	0.873	1.174	1.096	1.477	1.386	2.147
	1.50					0.727	0.979	0.913	1.231	1.155	1.789
	1.75						0.839	0.783	1.055	0.990	1.534
6.50	1.00				0.832	0.929	1.251	1.167	1.573	1.476	2.287
	1.25					0.743	1.001	0.934	1.258	1.181	1.830
	1.50						0.834	0.778	1.049	0.984	1.525
	1.75							0.667	0.899	0.843	1.307
7.00	1.00					0.801	1.079	1.007	1.356	1.273	1.972
	1.25						0.863	0.806	1.085	1.018	1.578
	1.50								0.904	0.849	1.315
	1.75								0.775	0.727	1.127
7.50	1.00						0.940	0.877	1.181	1.108	1.718
	1.25								0.945	0.886	1.374
	1.50								0.787	0.739	1.145
	1.75										0.982
8.00	1.00						0.826	0.771	1.038	0.974	1.510
	1.25								0.830	0.779	1.208
	1.50										1.007
	1.75										0.863
8.50	1.00								0.920	0.863	1.337
	1.25										1.070
	1.50										0.891
	1.75										0.764
9.00	1.00								0.820	0.770	1.193
	1.25										0.954
	1.50										0.795
9.50	1.00										1.070
	1.25										0.856
10.00	1.00										0.713
	1.25										0.966
											0.773

PURLINS ~ LOAD CHART

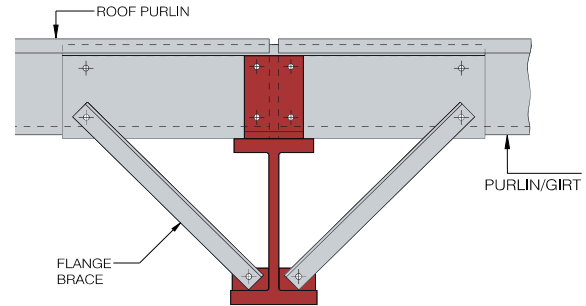
Purlins Sleeved System Allowable (Dead + Live + Collateral) Loads KN/m^2

Purlin Span in Mtrs	Purlin Centre Distance in Mtrs	"Z" Purlin Sections									
		EK122Z 15	EK122Z 20	EK142Z 15	EK142Z 20	EK172Z 15	EK172Z 20	EK202Z 15	EK202Z 20	EK250Z 15	EK250Z 20
4.00	1.00	1.606	1.900	1.812	2.362	2.637	3.550	3.312	4.462	4.187	6.487
	1.25	1.285	1.520	1.450	1.890	2.110	2.840	2.650	3.570	3.350	5.190
	1.50	1.071	1.267	1.208	1.575	1.758	2.367	2.208	2.975	2.791	4.325
	1.75	0.918	1.086	1.035	1.350	1.507	2.029	1.893	2.550	2.393	3.707
4.50	1.00	1.144	1.357	1.432	1.866	2.084	2.804	2.617	3.525	3.308	5.125
	1.25	0.915	1.086	1.146	1.493	1.667	2.243	2.094	2.820	2.646	4.100
	1.50	0.763	0.905	0.955	1.244	1.389	1.869	1.745	2.450	2.205	3.417
	1.75	0.654	0.775	0.818	1.066	1.191	1.602	1.495	2.014	1.890	2.929
5.00	1.00	0.834	0.989	1.094	1.426	1.688	2.272	2.120	2.856	2.680	4.152
	1.25	0.667	0.791	0.875	1.141	1.350	1.818	1.696	2.285	2.144	3.322
	1.50		0.659	0.729	0.951	1.125	1.515	1.413	1.904	1.787	2.768
	1.75			0.625	0.815	0.965	1.298	1.211	1.632	1.531	2.373
5.50	1.00	0.626	0.743	0.822	1.072	1.395	1.877	1.752	2.360	2.214	3.431
	1.25			0.658	0.858	1.116	1.502	1.402	1.888	1.771	2.745
	1.50				0.715	0.930	1.251	1.168	1.573	1.476	2.287
	1.75				0.613	0.797	1.073	1.001	1.349	1.265	1.961
6.00	1.00			0.633	0.825	1.143	1.497	1.472	1.983	1.861	2.883
	1.25				0.660	0.914	1.198	1.178	1.586	1.489	2.306
	1.50					0.762	0.998	0.981	1.322	1.241	1.922
	1.75					0.653	0.855	0.841	1.133	1.063	1.647
6.50	1.00				0.649	0.899	1.178	1.254	1.689	1.585	2.456
	1.25					0.719	0.942	1.003	1.351	1.268	1.965
	1.50						0.785	0.836	1.126	1.057	1.637
	1.75						0.673	0.717	0.965	0.906	1.403
7.00	1.00					0.719	0.943	1.059	1.390	1.367	2.118
	1.25						0.754	0.847	1.112	1.094	1.694
	1.50						0.629	0.706	0.927	0.911	1.412
	1.75							0.605	0.794	0.781	1.210
7.50	1.00						766.000	0.861	1.130	1.191	1.845
	1.25							0.689	0.904	0.953	1.476
	1.50								0.753	0.794	1.230
	1.75								0.646	0.681	1.054
8.00	1.00							0.709	0.931	1.046	1.621
	1.25								0.745	0.837	1.297
	1.50								0.621	0.697	1.081
	1.75										0.926
8.50	1.00								0.776	0.927	1.436
	1.25									0.742	1.149
	1.50									0.618	0.957
	1.75										0.821
9.00	1.00									0.827	1.214
	1.25									0.662	0.971
	1.50										0.809
	1.75										0.694
9.50	1.00									0.742	1.032
	1.25										0.826
	1.50										0.688
	1.75										0.885
10.00	1.00										0.708

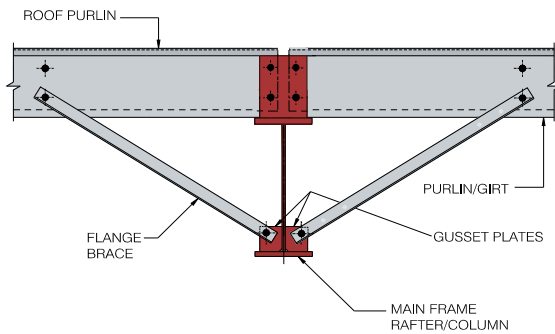
PURLINS ~ INSTALLATION DETAILS



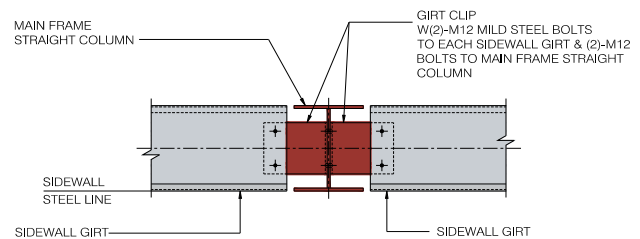
**POSITIONING OF RAFTER STAY HOLES ON
DEEPER RAFTERS**



SLEEVE FIXING HOLE POSITIONS

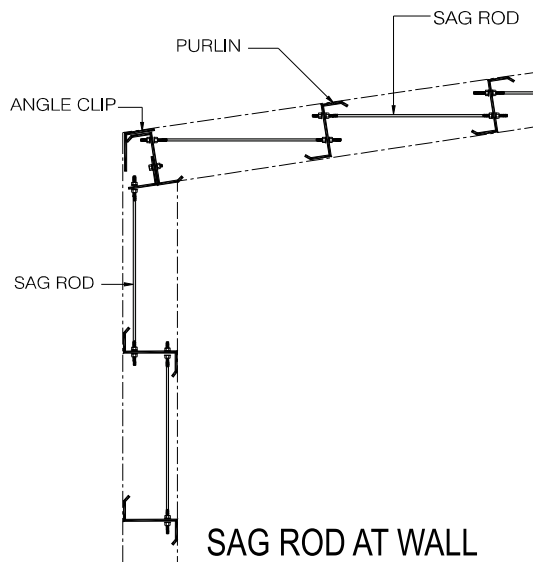


PURLIN / GIRT BUTT JOINT

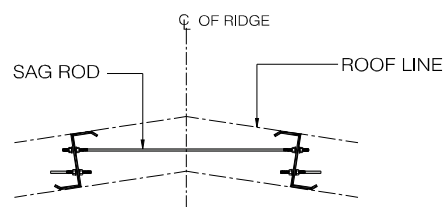


**FLUSH SIDEWALL GIRTS AT
MAIN FRAME STRAIGHT COLUMN**

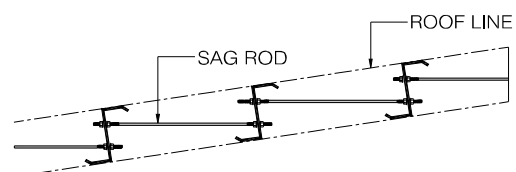
SAG ROD INSTALLATIONS



SAG ROD AT WALL

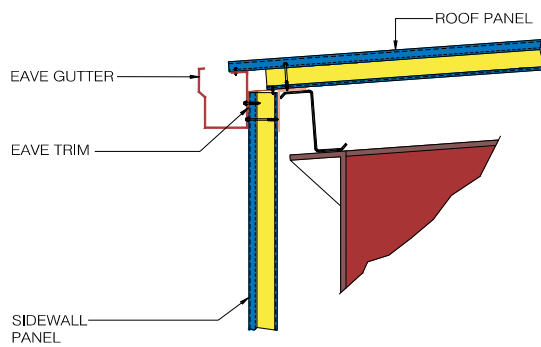


SAG ROD AT RIDGE

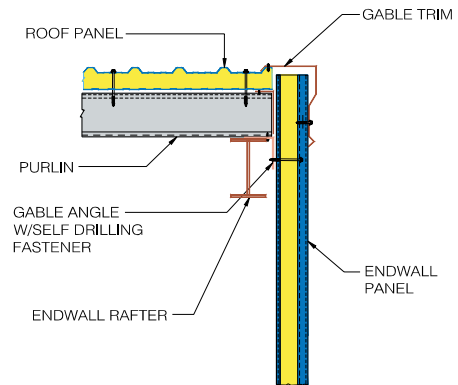


SAG ROD AT ROOF

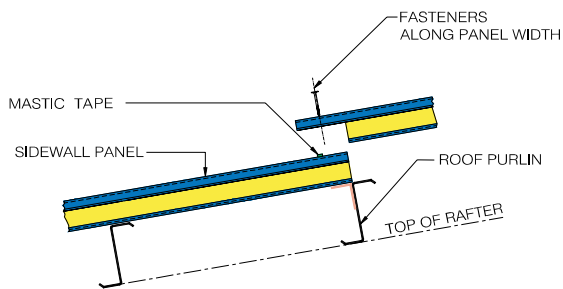
SANDWICH PANEL ~ INSTALLATION DETAILS



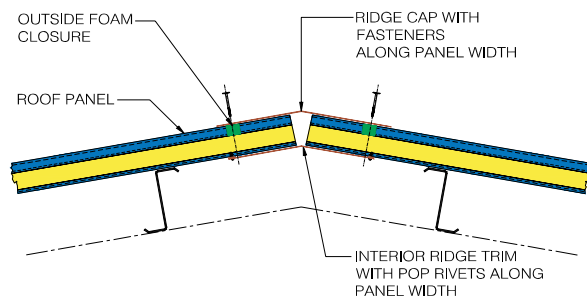
ROOF AND WALL PANEL AT EAVE



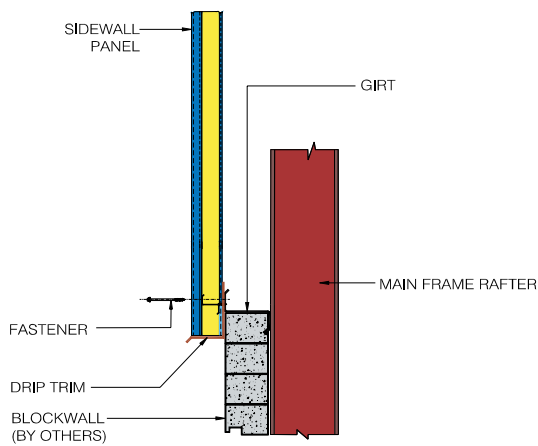
ROOF AND WALL PANEL AT GABLE



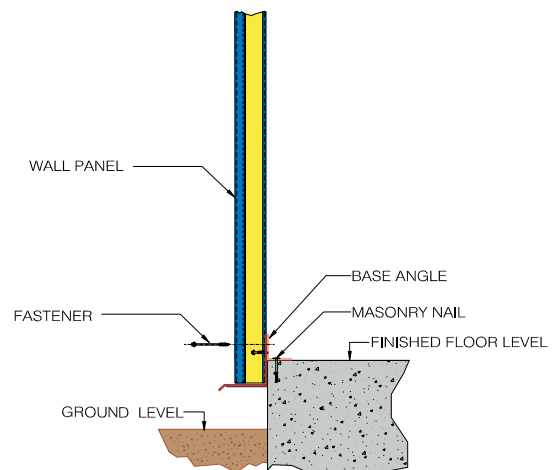
ROOF PANEL AT END LAP



ROOF PANEL AT RIDGE

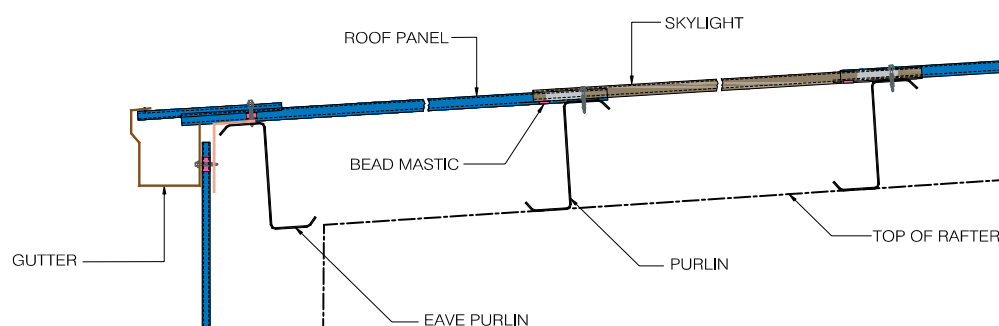


WALL PANEL ABOVE BLOCKWALL

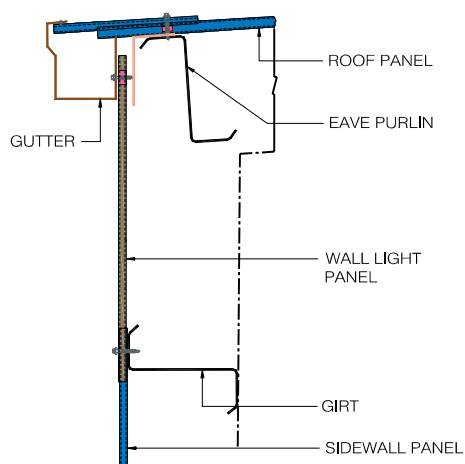


WALL PANEL AT FINISHED FLOOR

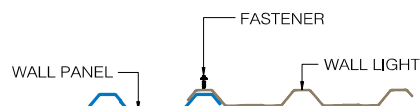
SKYLIGHT SHEET ~ INSTALLATION DETAILS



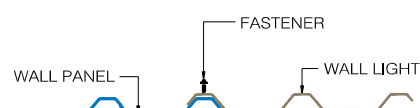
SKYLIGHT SHEET AT ROOF



SKYLIGHT SHEET AT WALL



ROOF SIDE PANEL



WALL SIDE PANEL

ACCESSORIES

Color Caps

These colored plastic caps are used to fit hexagonal screw head and cover washer, to match the color of the cladding.



Fasteners

The fasteners used to fix Steel Sheets & Panels are made from High Grade Carbon Steel, and fasteners used to fix Aluminum Sheets & Panels are made from Stainless Steel with a hardened carbon steel.



Pop Rivets

Made of aluminum and used in fixing trim, accessories etc. to roof & wall panels.



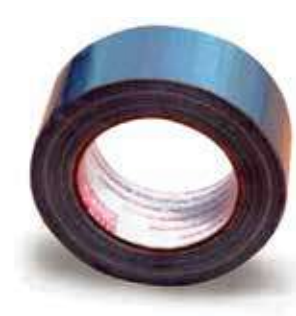
Foam Closures

Provides a weather tight seal and complete protection against water vapors and dust.



Purlin Tape

Purlin tape is used when Aluminum panels are fixed directly to steel secondary members. This provides a barrier to prevent galvanic action that would result when Aluminum is in contact with steel.



Butyl Tape or Bead Mastic

A rubber based sealant used on all side laps and end laps of roof panels to provide a tight seal against water leakage.



Silicon Sealants

Use to fill gaps between joints. It is designed to withstand expansion and contraction. They are unaffected by rain, snow, temperature changes and ultraviolet exposure.



COLOUR CHART

STANDARD PANEL COLOUR CHART



RAL 1001



RAL 5012



BS12 - B21
(Emirates Green)



RAL 9002

NON-STANDARD PANEL COLOUR CHART

(Available on Request at Extra Cost)



RAL 1014



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 3002

* Actual colour may vary from these printed colours.

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

BUILDING TERMINOLOGY



عيسى خان لصناعة الاشغال المعدنية شركة الشخص الواحد ذ م م

ESSA KHAN METAL IND SOLE PROPRIETORSHIP LLC

ADDRESS

Juwaiza, Sajja, Sharjah ~ U.A.E.

PHONE

+971 6 742 9520, +971 6 767 5448

MOBILE

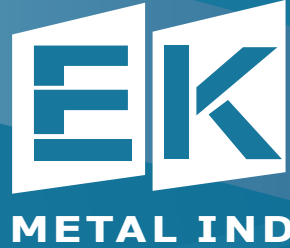
+971 54 252 2651, +971 54 252 2652

EMAIL

info@ek-metal.com, sales1@ek-metal.com

WEBSITE

www.ek-metal.com



عيسى خان لصناعة الاشغال المعدنية شركة الشخص الواحد ذ م م

ESSA KHAN METAL IND SOLE PROPRIETORSHIP LLC

Mob: +971 54 252 2651, +971 54 252 2652, Tel: +9716 7429520, +9716 7675448,
P.O. Box: 234978 (DXB), Address: Juwaiza, Sajja, Sharjah - U.A.E.
Email: info@ek-metal.com, sales1@ek-metal.com, Website: www.ek-metal.com

STRATEGIC BUSINESS UNIT



عيسى خان لمقاولات البناء ذ.م.م

EISA KHAN BUILDING CONTRACTING LLC

P.O BOX 234978, DUBAI - U.A.E. TEL: 04-456 0927 / 04-2217979, FAX: 04-2650975

Email: info@ekbcon.com / kannan@ekbcon.com / aseer@ekbcon.com

Web: www.ekbcon.com