

# Elmazoor Steel

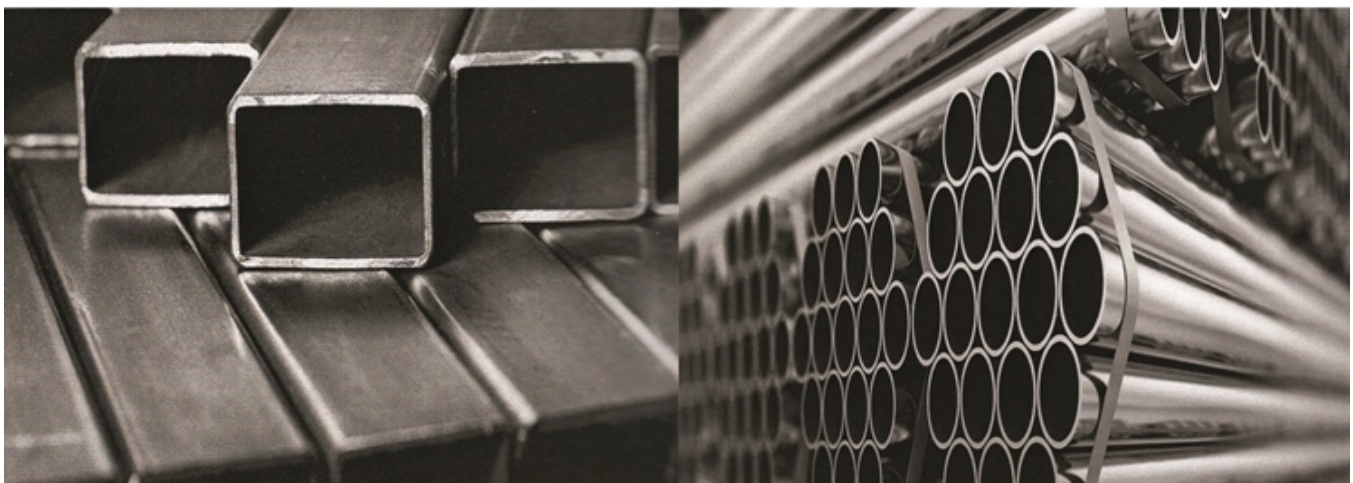
Elmazoor Steel Company is Considered One Of The Largest Companies Working in The Field Of Colored & Galvanized Sheet & Hot Sheet & Cold Sheet in Egypt.

Which was Established in The Year 1952

Elmazoor Steel Introduce a new high Quality Products in The Field Of

( Construction Supplies , Cold Storage industry , Insulation Products )

**More than 70 years  
of experience**

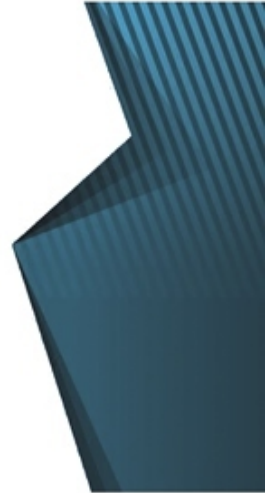




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## Who Are We

**ELMAZoor STEEL** is one of the biggest names in Egypt in the field of colorful sheet , galvanized sheet , hot and cold sheet , sandwich panels , caravans , cold storage , construction supplies , making and forming steel pipes.

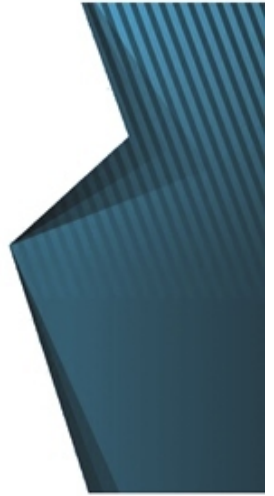
The company was established in **1952** , more than **70 years ago** , providing it with the edge amongst other competitors in the same field , its distinguished reputation is aided by its cooperation with world class companies in the market and adhering to the global standards of quality and safety.

**ELMAZoor STEEL** acts as an agent for a lot of providers and suppliers of raw materials , with a big advantage that the company also manufactures and reshapes said materials into multiple products according to the needs of the egyptian market using the latest and the cutting-edge technologies in their production lines and factories.

Other advantage of the company's practice is the accuracy and the speed in handling the customer's orders, this is gained through long years of experience in dealing with entities from both public and private sectors  
The company's pricing policy is unmatched amongst its competitors , this combined with other facilities and features makes.

**ELMAZoor STEEL** one of the most advanced firms in the field of steel manufacturing and give it the edge within the field.  
Finally, we at **ELMAZoor STEEL** say it with confidence, we are ready to satisfy the needs of our clients in the most efficient manner, with the best quality, the targeted deadline and the best results overall.





**STEEL SHEETS & FLASHING**  
Products

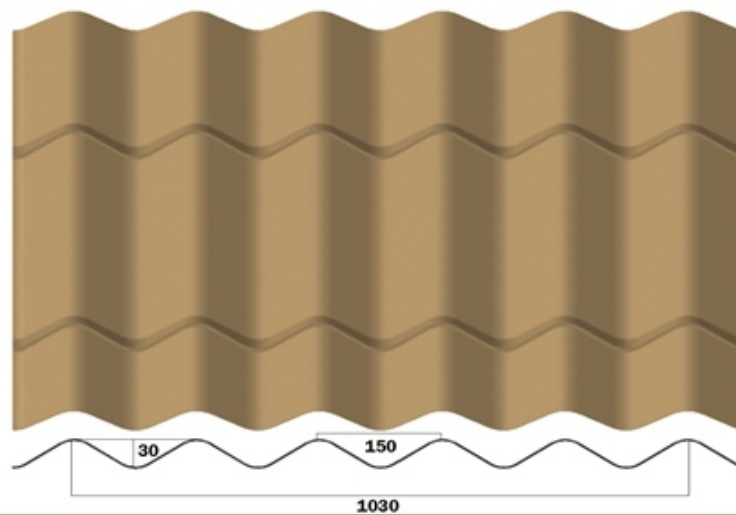


# STEEL SHEETS

## STEEL SHEETS :103 CM



TYPE (A)



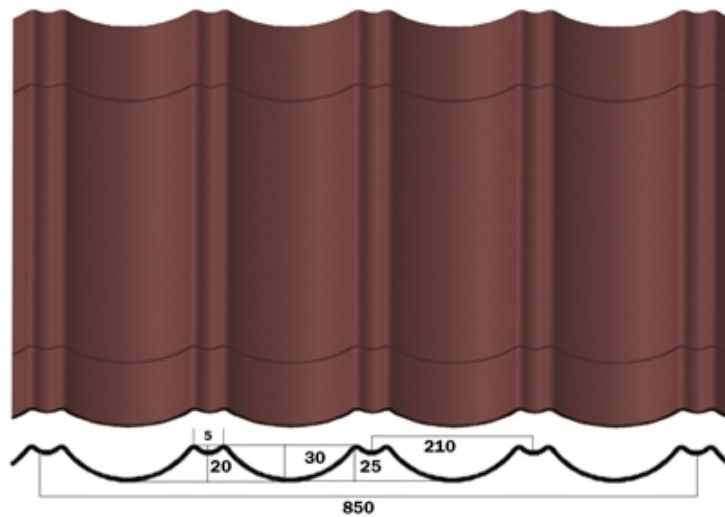
Maximam Allowble Stresses							
Thicknesses	Section Properties			Loods (KG/m <sup>2</sup> )			
	Y	I	Z	50	100	150	200
mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	Maximam Allowble Prolin Sp a cing			
0.30	3.27	1.95	0.50	120	80	60	40
0.35	3.27	2.35	0.65	130	90	70	50
0.40	3.27	2.75	0.80	140	100	80	60
0.45	3.27	3.15	0.95	150	110	90	70
0.50	3.27	3.55	1.25	160	120	100	80
0.60	3.27	4.35	1.55	180	140	120	100
0.70	3.27	5.15	1.85	200	160	140	120

Maximam Allowble Deflection L/200							
Thicknesses	Section Properties			Loods (KG/m <sup>2</sup> )			
	Y	I	Z	50	100	150	200
mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	Maximam Allowble Prolin Sp a cing			
0.30	3.27	1.95	0.50	170	120	110	100
0.35	3.27	2.35	0.65	180	130	115	105
0.40	3.27	2.75	0.80	190	140	120	110
0.45	3.27	3.15	0.95	200	150	125	115
0.50	3.27	3.55	1.25	210	160	130	120
0.60	3.27	4.35	1.55	220	170	140	130
0.70	3.27	5.15	1.85	230	180	150	140

# STEEL SHEETS

## STEEL SHEETS : 85 CM

TYPE (A)



Maximam Allowble Stresses							
Thicknesses	Section Properties			Loods (KG/m <sup>2</sup> )			
	Y	I	Z	50	100	150	200
mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	Maximam Allowble Prolin Sp a cing			
0.30	2.77	1.45	0.30	100	60	40	20
0.35	2.77	1.65	0.45	110	70	50	30
0.40	2.77	1.85	0.60	120	80	60	40
0.45	2.77	2.05	0.75	130	90	70	50
0.50	2.77	2.45	0.90	140	100	80	60
0.60	2.77	2.85	1.20	160	120	100	80
0.70	2.77	3.25	1.50	180	140	120	100

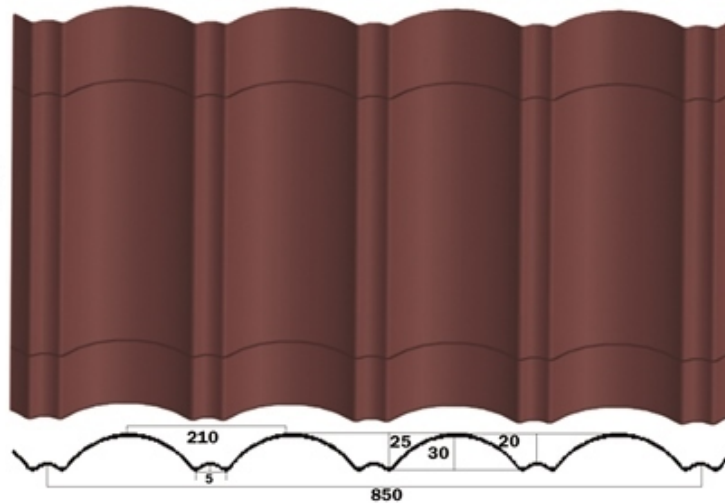
Maximam Allowble Deflections L/200							
Thicknesses	Section Properties			Loods (KG/m <sup>2</sup> )			
	Y	I	Z	50	100	150	200
mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	Maximam Allowble Prolin Sp a cing			
0.30	2.77	1.45	0.30	150	100	90	80
0.35	2.77	1.65	0.45	160	110	95	85
0.40	2.77	1.85	0.60	170	120	100	90
0.45	2.77	2.05	0.75	180	130	105	95
0.50	2.77	2.45	0.90	190	140	110	100
0.60	2.77	2.85	1.20	200	150	120	110
0.70	2.77	3.25	1.50	210	160	130	120

# STEEL SHEETS

STEEL SHEETS : 85 CM



TYPE (A)



Maximam Allowble Stresses							
Thicknesses	Section Properties			Loods (KG/m <sup>2</sup> )			
	Y	I	Z	50	100	150	200
mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	Maximam Allowble Prolin Sp a cing			
0.30	2.77	1.45	0.30	100	60	40	20
0.35	2.77	1.65	0.45	110	70	50	30
0.40	2.77	1.85	0.60	120	80	60	40
0.45	2.77	2.05	0.75	130	90	70	50
0.50	2.77	2.45	0.90	140	100	80	60
0.60	2.77	2.85	1.20	160	120	100	80
0.70	2.77	3.25	1.50	180	140	120	100

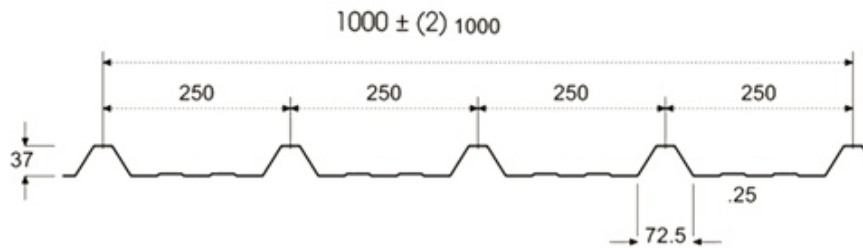
Maximam Allowble Deflections L/200							
Thicknesses	Section Properties			Loods (KG/m <sup>2</sup> )			
	Y	I	Z	50	100	150	200
mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	Maximam Allowble Prolin Sp a cing			
0.30	2.77	1.45	0.30	150	100	90	80
0.35	2.77	1.65	0.45	160	110	95	85
0.40	2.77	1.85	0.60	170	120	100	90
0.45	2.77	2.05	0.75	180	130	105	95
0.50	2.77	2.45	0.90	190	140	110	100
0.60	2.77	2.85	1.20	200	150	120	110
0.70	2.77	3.25	1.50	210	160	130	120

# STEEL SHEETS

## STEEL SHEETS : 100 CM



TYPE (A)



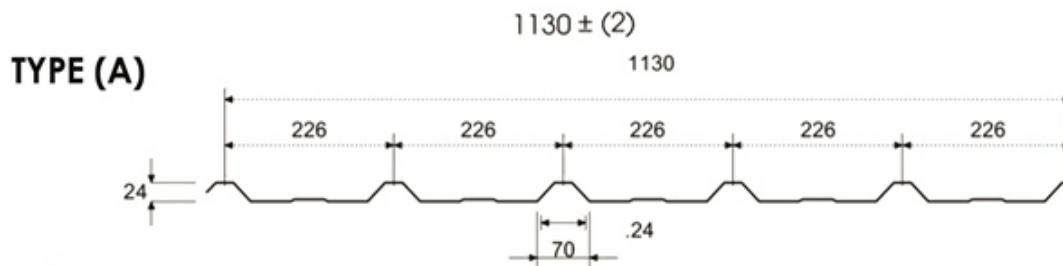
Maximam Allowable Stresses							
Thicknesses	Section Properties			Loods (KG/m <sup>2</sup> )			
	Y	I	Z	50	100	150	200
mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	Maximam Allowble Prolin Sp a cing			
0.30	11.11	6.63	2.28	260	170	140	120
0.35	11.11	7.74	2.66	275	185	150	130
0.40	11.11	8.85	3.04	290	200	160	140
0.45	11.11	9.96	3.42	305	215	170	150
0.50	11.11	11.07	3.80	320	230	180	160
0.60	11.11	13.28	4.55	350	250	200	175
0.70	11.11	15.49	5.30	380	270	220	190

Maximam Allowable Deflections L/200							
Thicknesses	Section Properties			Loods (KG/m <sup>2</sup> )			
	Y	I	Z	50	100	150	200
mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	Maximam Allowble Prolin Sp a cing			
0.30	11.11	6.63	2.28	260	170	140	120
0.35	11.11	7.74	2.66	275	185	150	130
0.40	11.11	8.85	3.04	290	200	160	140
0.45	11.11	9.96	3.42	305	215	170	150
0.50	11.11	11.07	3.80	320	230	180	160
0.60	11.11	13.28	4.55	340	255	215	180
0.70	11.11	15.49	5.30	360	280	250	200



# STEEL SHEETS

## STEEL SHEETS : 113 CM

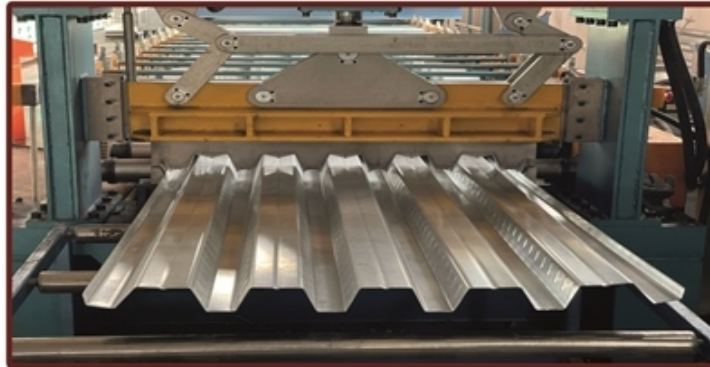


Maximam Allowbe Stresses							
Thicknesses	Section Properties			Loods (KG/m <sup>2</sup> )			
	Y	I	Z	50	100	150	200
mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	Maximam Allowbe Prolin Sp a cing (cm)			
0.30	7.19	2.75	0.83	150	110	90	70
0.35	7.19	3.21	0.97	160	115	95	75
0.40	7.19	3.67	1.11	170	120	100	80
0.45	7.19	4.13	1.25	180	125	105	85
0.50	7.19	4.59	1.39	190	130	110	90
0.60	7.19	5.51	1.67	210	145	120	100
0.70	7.19	6.43	1.94	230	160	130	110

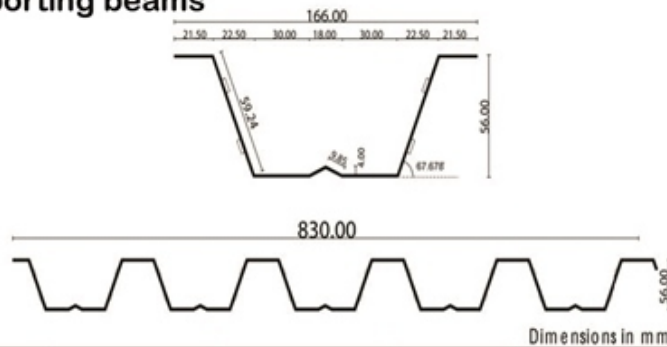
Maximam Allowbe Deflections L/200							
Thicknesses	Section Properties			Loods (KG/m <sup>2</sup> )			
	Y	I	Z	50	100	150	200
mm	mm	cm <sup>4</sup>	cm <sup>3</sup>	Maximam Allowbe Prolin Sp a cing (cm)			
0.30	7.19	2.75	0.83	200	150	140	130
0.35	7.19	3.21	0.97	210	160	145	135
0.40	7.19	3.67	1.11	220	170	150	140
0.45	7.19	4.13	1.25	230	180	155	145
0.50	7.19	4.59	1.39	240	190	160	150
0.60	7.19	5.51	1.67	250	200	170	170
0.70	7.19	6.43	1.94	260	210	180	190

# STEEL DECKING

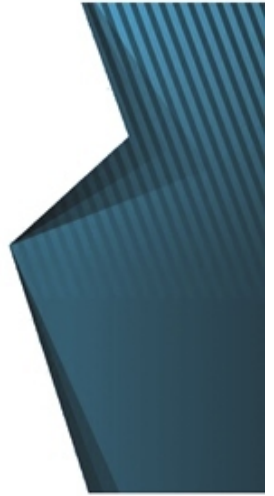
An open web trapezoidal Composite floor or deck  
 a CTS as a form work and reduces the dead load weight  
 of the floor and also saves one steel reinforcement layer



The choice of the deck thickness depends on the load and the distance  
 between supporting beams



Thickness (mm)	Area (cm <sup>2</sup> )/m.l	Weight (kg)/m.l	IS.X (cm <sup>4</sup> )	ZU (cm <sup>3</sup> )/m.l	ZL (cm <sup>3</sup> )/m.l
0.70	8.440	6.868	49.83	14.07	18.064
0.75	9.045	7.358	53.732	14.898	19.748
0.80	9.650	7.848	57.643	16.488	21.431
0.90	10.86	8.828	65.438	18.906	24.80
1.00	12.07	9.808	73.242	21.324	28.17
1.10	13.28	10.788	81.046	23.742	31.53
1.20	14.471	11.775	88.85	26.160	34.90
1.25	15.0665	12.2685	92.752	27.369	36.585
1.30	15.662	12.762	96.654	28.578	38.27
1.40	16.853	13.749	104.458	30.996	41.64
1.50	18.044	14.736	112.262	33.414	45.01



## **ACCESSORIES**

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## Accessories

### Flashing, Trimmings, Gutters & Curved Panels.

We can manufacture any size according engineering design or as standard profiles

Flashing and cappings are used to weatherproof the edges of roofs and walls. Flashings can be used on the gable ends of an apex roof, to flash around a single sloping pitched roof and on the corners of buildings. they provide closure between sheets and walls, protection against high winds and ensures a professional neat finish to any building.

Ridge capping is used on the ridge of an apex roof. It provides the closure between sheets to prevent water leakage and protection against high winds.

Profile	Perspective	Profile	Perspective



Profile	Perspective	Profile	Perspective

# PPGI

## SANDWICH PANEL METALLIC FACING

Internal and external facings of a sandwich panel are determined according to the type of usage of the panels, type of the surrounding environment and the loads affecting on the sandwich panel. The most common metallic facings of sandwich panels is PPGI (( Pre - Painted Galvanized Iron ))

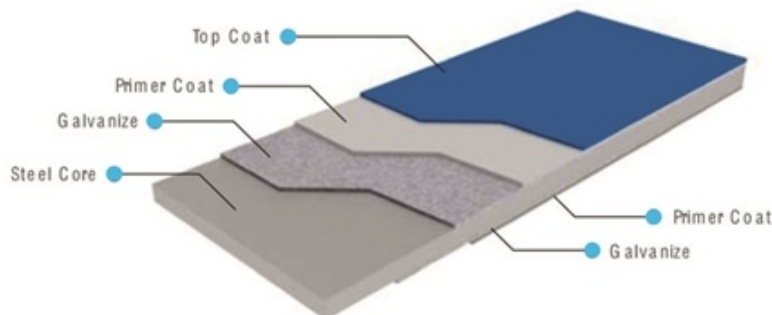
### Properties Of The Steel Sheets

Steel Coil specc	1ST grade imported galvanized & pre-painted
Standards	ASTM A653 - EN 10143
STEEL Thickness (mm)	( 0.3 - 0.35 - 0.4 - 0.45 - 0.5 - 0.6 - 0.7- 0.8 - 0.9 - 1.0)
Zinc Coating	G 30-90 gm/m <sup>2</sup> G 60-180 gm/m <sup>2</sup> G 40-120 gm/m <sup>2</sup> G 90-275 gm/m <sup>2</sup>
Front Face Coats (microns)	25 microns nominal ( 20microns Of Polyester Paint + 5micron Of Primer )
Back Face Coats	7 Microns Of Primer
Origin	Belgium - China - KSA - Tiwan - UAE - Italy Russia - Mexico - France - Spain - Germany - Turkey According To Available Stock



Other specific atation for PPGI Mettallic facings can be especially imported upen request

All PPGI mettalic facings ere coverd with Polyethylene transparent film ( Thickness 35 μ ) for protecion from dust and scratches





## RAW MATERIALS

Elmazoor Steel's MQA system "Quality Assurance & Control" has been implemented to ensure that all raw materials used in sandwich panels fabrication conform to the preset material specifications and that our suppliers are qualified to Provide these Materials With Full Compliance with that specification more over a restricted "Quality Control System" is well established and implemented to check all material parameters compliance upon arrival and before releasing to production



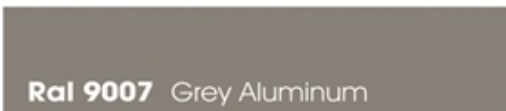
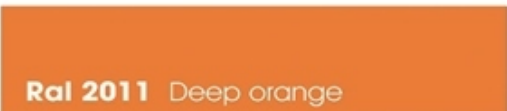
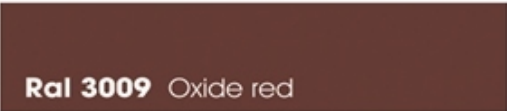
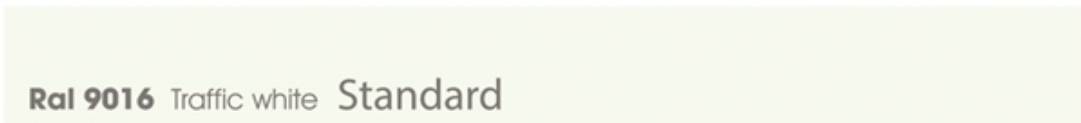
Quality Inspection takes place through our well-equipped laboratory and by qualified Quality Team that consequently impacted on the quality standard of our sandwich panel.

# RAL



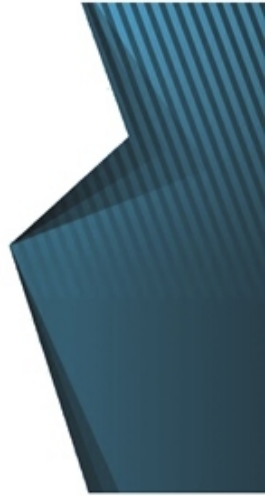
## Colour Charts

### Standard Colors



Standard colors are available in stock  
Other colors need minimum order of 6000 m<sup>2</sup>





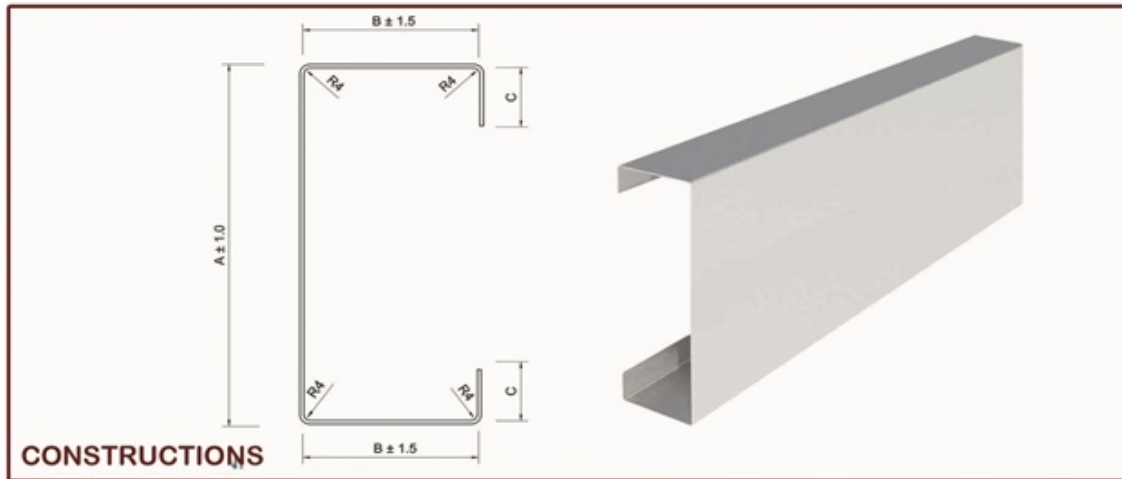
# Construction Supplies





## CEE section purlins ( AF - CC)

CEE section purlins are accurately roll formed high strength steel to provide an efficient, light weight and economical roofing and cladding support system for structural steel buildings. The thickness and height of the purlin selected depend on span length and loads.



### CONSTRUCTIONS

Nominal Sizes	Dim . A	Dim . B	Dim . C	MATERIAL THICKNESSES										
				1.50	1.70	1.90	2.00	2.25	2.65	3.00	3.35	3.75	4.00	
400 * 98	400	98	25							●	●	●	●	●
360 * 98	360	98	22							●	●	●	●	●
340 * 98	340	98	22							●	●	●	●	●
300 * 98	300	98	22					●	●	●	●	●	●	●
260 * 85	260	85	25					●	●	●	●	●	●	●
240 * 75	240	75	25			●	●	●	●	●	●	●	●	●
200 * 75	200	75	25		●	●	●	●	●	●	●	●	●	●
160 * 60	160	60	22	●	●	●	●	●	●	●	●	●	●	●
140 * 60	140	60	22	●	●	●	●	●	●	●	●	●	●	●
120 * 60	120	60	22	●	●	●	●	●	●	●	●	●	●	●
100 * 55	100	50	25	●	●	●	●	●	●	●	●	●	●	●

**Note** lip size ( Dim . c ) = 20mm when t = 2.5mm or less.  
lip size must be more than 20mm when t > 2.5 mm.

#### SOLAR CELL :

Dim . A	Dim . B	Dim . C	MATERIAL THICKNESS
60	30-40	10:20	MAX. 2.5
70:100	30-40	10:20	MAX. 2.5
110:200	40	10:20	MAX. 2.5

NOTE: we are looking to add leg 60mm and 70mm the soonest.

Dim in mm.

Material: Galvanized/Black iron

Steel Grade S250, S350 and S420.

Blank Width are based on 2.5 mm thickness.

Dim "C" varies with blank width and Material thickness.

Tolerances: **According to EN 10162.**

BOW 1 mm per meter

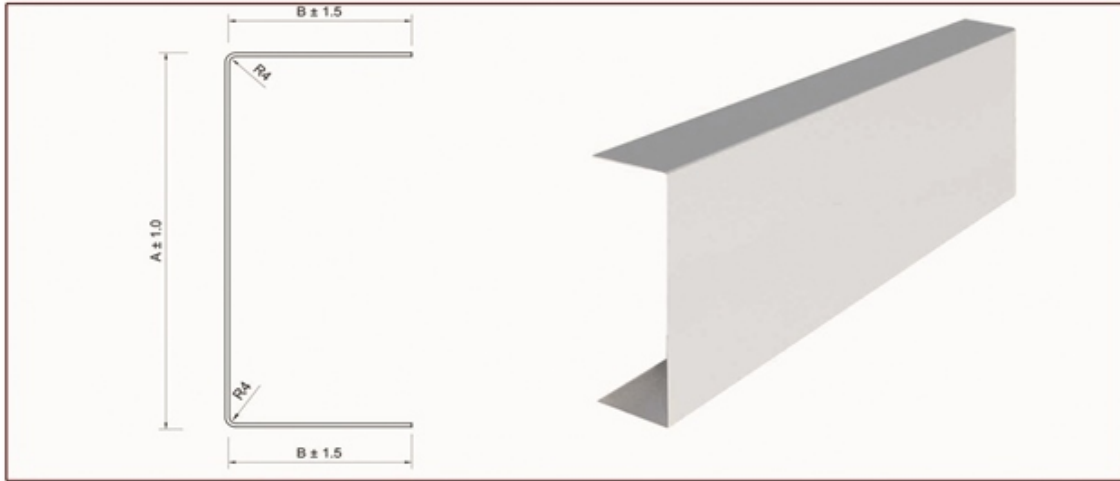
CAMBER 1 mm per meter

TWIST 1 mm per meter

FLARE ±3 mm within 200 mm of each end

## U section purlins ( AF - C )

CEE section purlins are accurately roll formed high strength steel to provide an efficient, light weight and economical roofing and cladding support system for structural steel buildings. The thickness and height of the purlin selected depend on span length and loads.

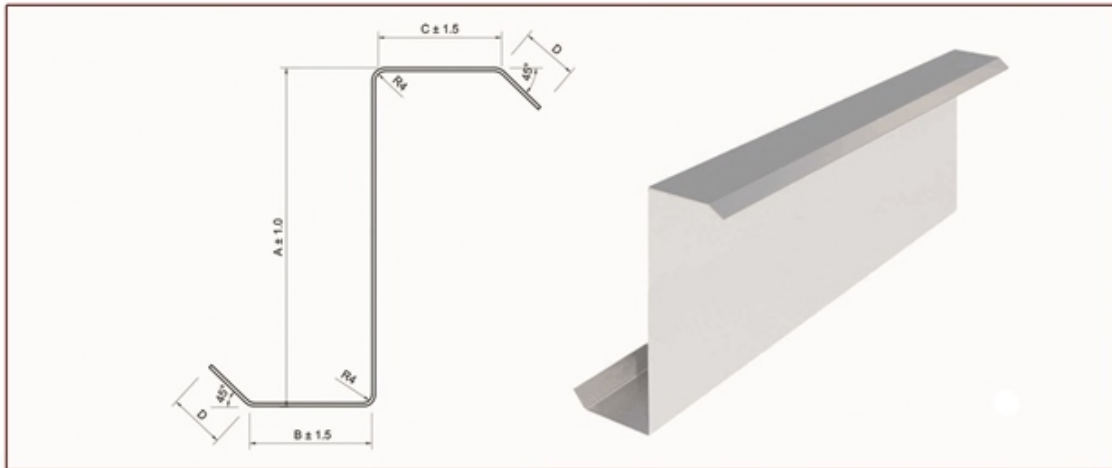


Nominal Sizes	Dim . A	Dim . B	MATERIAL THICKNESSES											
			1.00	2.00	2.25	2.65	3.00	3.35	3.75	4.00	4.25	4.75		
CONSTRUCTIONS	400 * 98	400	98	•	•	•	•	•	•	•	•	•	•	•
	200 * 80	200	80	•	•	•	•	•	•	•	•	•	•	•
	200 * 50	200	50	•	•	•	•	•	•	•	•	•	•	•
	160 * 40-75	160	40 - 75	•	•	•	•	•	•	•	•	•	•	•
	150 * 100	150	98	•	•	•	•	•	•	•	•	•	•	•
	150 * 80	150	80	•	•	•	•	•	•	•	•	•	•	•
	150 * 50	150	50	•	•	•	•	•	•	•	•	•	•	•
	125 * 100	125	98	•	•	•	•	•	•	•	•	•	•	•
	125 * 80	125	80	•	•	•	•	•	•	•	•	•	•	•
	125 * 50	125	50	•	•	•	•	•	•	•	•	•	•	•
	100 * 80	100	80	•	•	•	•	•	•	•	•	•	•	•
	100 * 50	100	50	•	•	•	•	•	•	•	•	•	•	•
	100 * 40	100	40	•	•	•	•	•	•	•	•	•	•	•
More sizes	80 * 30-75	80	30 - 75	•	•	•	•	•	•	•	•	•	•	•
	60 * 30-75	60	30 - 75	•	•	•	•	•	•	•	•	•	•	•
	50 * 30-75	50	30 - 75	•	•	•	•	•	•	•	•	•	•	•
	40 * 30-75	40	30 - 75	•	•	•	•	•	•	•	•	•	•	•
Web Range 20 : 100 mm	Leg Range 10 : 30 mm	Thickness Range 0.5 : 1 mm	Dim in mm. Material: Galvanized/Black Iron Steel Grade S250, S350 and S420. Blank Width are based on 2.5 mm thickness. Dim "C" varies with blank width and Material thickness.											
			Tolerances: <b>According to EN 10162.</b> BOW 1 mm per meter CAMBER 1 mm per meter TWIST 1 mm per meter FLARE ±3 mm within 200 mm of each end											



## ZEE section purlins ( AF - Z )

ZEE section purlins are accurately roll formed high strength steel to provide an efficient, light weight and economical roofing and cladding support system for structural steel buildings. The thickness and height of the purlin selected depend on span length and loads.



Nominal Sizes	Dim . A	Dim . B	Dim . C	Dim . D	MATERIAL THICKNESSES										
					1.50	1.70	1.90	2.00	2.25	2.65	3.00	3.35	3.75	4.00	
305 * 90	305	90	90	25							●	●	●	●	●
250 * 90	250	90	90	25							●	●	●	●	●
200 * 60	200	60	60	25							●	●	●	●	●
100 * 60	100	60	60	25					●	●	●	●	●	●	●
100 * 50	100	50	50	19					●	●	●	●	●	●	●
90 * 50	90	50	50	19			●	●	●	●	●	●	●	●	●

Material: Galvanized/Black iron

Steel Grade S250, S350 and S420.

Twist tolerance to be defined as follows:

Zee purlins with web width (Dim. "A") of 100 mm or less cannot be expected to be without twist.

All Zee's with leg lengths ( Dim. 's "B" & "C" ) of 54 mm or more cannot have lip lengths (Dim. "D") greater than 28 mm.

All Zee's with leg lengths less than 54 mm cannot have lip lengths greater than 19 mm.

### Confirming To ASTM A53

Nominal Size NB		Outside Diameter D MM	Thickness T		Nominal Weight Black Tubes Plain END	
MM	INCR		MM	SWG	KG/Meter	Meter / Ton
15	(1/2)	21.30	2.00	14	0.947	1056
			2.60	12	1.210	826
			3.20	10	1.440	694
20	(3/4)	26.90	2.30	13	1.380	725
			2.60	12	1.560	641
			3.20	10	1.870	535
25	(1)	33.70	2.60	12	1.980	505
			3.20	10	2.410	415
			4.00	08	2.930	341
32	(1/4)	42.40	2.60	12	2.540	394
			3.20	10	3.100	322
			4.00	08	3.790	264
40	(1/2)	48.30	2.90	1.1	3.230	310
			3.20	10	3.560	281
			4.00	08	4.370	229
50	(2)	60.30	2.90	11	3.230	310
			3.60	09	5.030	199
			4.50	07	6.190	162
65	(2/2)	76.10	3.20	10	5.710	175
			3.60	09	6.420	156
			4.50	07	7.930	126
80	(3)	88.90	3.20	10	6.720	149
			4.00	08	8.360	120
			4.80	06	9.990	101
100	(4)	114.30	3.60	09	9.750	102
			4.50	07	12.200	82
			5.40	05	14.500	70
110	(4)	127.00	4.50	07	13.600	74
			4.80	06	14.500	69
			5.40	05	16.200	62
125	(5)	139.70	4.50	07	15.000	66.5
			4.80	06	15.900	63
			5.80	05	17.900	56
135	(5)	152.40	4.50	07	16.400	61
			4.80	06	17.500	57
			5.40	05	19.600	51
150	(6)	165.10	4.50	07	17.800	56
			4.80	05	18.900	53
			5.40	05	21.300	47
150	(6)	168.30	4.50	07	18.200	55
			4.80	06	19.400	51.5
			5.40	05	21.700	46
175	(7)	193.70	6.30	03	25.200	40
			4.80	06	22.400	45
			5.40	05	25.100	40
200	(8)	219.10	5.90	04	27.300	37
			4.80	06	25.400	39
			5.60	05	29.500	34
			5.90	04	31.00	32

Chemical Properties			
C	0.20% Max		
Mn	1.3% Max		
P	0.04% Max		
S	0.04% Max		
Physical Properties			
Grade	YS	TS	%age
	(Min.)	(Min.)	(Min.)
	Mpa	Mpa	Mpa
YST-210	210	330	20
YST-240	240	410	17
YST-310	310	450	14
Note: For Tubes Up To Siz25mm NB: Including Elongation Of 12% Shall Be Permissible			
Weight			
Single Tubes (Light Series)	+10% +08%		
Single Tubes (Medium & Heavy Series)	-/+10%		
Weight Truck Load			
For Lot Of 10 Ton Min Light Series	-/+05%		
Medium & Heavy Series	-/+7.5%		
Tolerance			
Outside Diameter			
Up To And Including 48.3mm	+0.4mm -0.8mm		
Over 48.3mm	+/- 1%		
Thickness			
	+ Not Limited	-10%	



Nominal Bore (B.N)		Outside Diameter		CLASS	Wall Thickness		Nominal Weight (KGS/Meters)		Meters / Ton	
MM	INCH	Minimum	Maximum		MM	SWG	P.E.	S&S	P.E.	S&S
15	( 1/2' )	21.00	21.40	L	2.00	14	0.95	0.96	1056	1046
		21.00	21.80	M	2.60	12	1.21	1.22	826	820
		21.00	21.80	H	3.20	10	1.44	1.45	694	690
20	( 3/4' )	26.40	26.90	L	2.30	13	1.38	1.39	725	719
		26.50	27.30	M	2.60	12	1.56	1.57	641	637
		26.50	27.30	H	3.20	10	1.87	1.88	535	532
25	( 1' )	33.20	33.80	L	2.60	12	1.98	2.00	505	500
		33.30	34.20	M	3.20	10	2.41	2.43	415	411
		33.30	34.20	H	4.00	8	2.93	2.95	341	339
32	( 1 1/4' )	41.90	42.50	L	2.60	12	2.54	2.57	394	389
		42.00	42.90	M	3.20	10	3.10	3.13	322	319
		42.00	42.90	H	4.00	8	3.79	3.82	264	262
40	( 1 1/2' )	47.80	48.40	L	2.90	11	3.23	3.27	310	306
		47.90	48.80	M	3.20	10	3.56	3.60	281	278
		47.90	48.80	H	4.00	8	4.37	4.41	229	227
50	( 2' )	59.60	60.20	L	2.90	11	4.08	4.15	245	241
		59.70	60.80	M	3.60	9	5.03	5.10	199	196
		59.70	60.80	H	4.50	7	6.19	6.26	161	160
65	( 2 1/2' )	75.20	76.00	L	3.20	10	5.71	5.83	175	171.5
		75.30	76.60	M	3.60	9	6.42	6.54	156	153
		75.30	76.60	H	4.50	7	7.93	8.05	126	124
80	( 3' )	87.90	88.70	L	3.20	10	6.72	6.89	149	145
		88.00	89.50	M	4.00	8	8.36	8.53	120	117
		88.00	89.50	H	4.80	6	9.90	10.10	101	99
100	( 4' )	113.00	113.90	L	3.60	9	9.75	10.00	102	100
		113.10	115.00	M	4.50	7	12.20	12.50	82	80
		113.10	115.00	H	5.40	5	14.50	14.80	69	67
125	( 5' )	138.50	140.80	M	4.80	6	15.90	16.40	63	61
		138.50	140.80	H	5.40	5	17.90	18.40	56	54
150	( 6' )	163.90	166.50	M	4.80	6	18.90	19.50	53	51
		138.90	166.50	H	5.40	5	21.30	21.90	47	46

## TOLERANCE

<b>Thickness</b>	For Quantities Per Load Of 10 Ton Min : +/- 7.5% ( Medium & Heavy Series )
Light Tubes : + Not Limited - 8 %	<b>Chemical Composition</b>
Medium & Heavy Tubes : + Not Limited - 10 %	As Per IS : 10748 - 2004
<b>Weight</b>	<b>Physical Properties</b>
Single Tube : +10% ( Light Series ) - 8%	Tensile Strength : Min. 320 Mpa
Single Tube : +10% ( Medium & Heavy Series )	Elongation % Age : 20%Min. Above 25 mmNB 12%Min. Up To 25 mm NB
For Quantities Per Load Of 10 Ton Min : +/- 7.5% ( Light Series ) - 5%	Hydro Test Pressure : 5 Mpa



## HOLLOW STEEL SECTION FOR STRUCTURAL USE RECTANGULAR HOLLOW SECTION ( RHS )

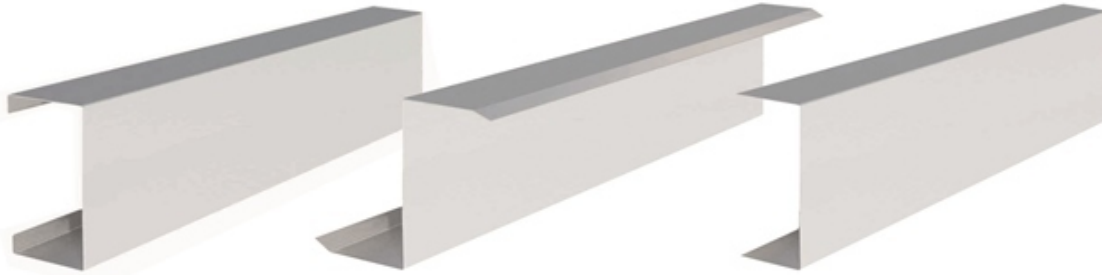
### Confirming To ASTM A53

RHS MM	THICKNESS MM	UNIT WEIGHT	
		KG/Meter	KG/TON
40×20	2.00	1.68	595
	2.60	2.10	476
	3.20	2.49	402
40×25	1.60	1.57	640
	2.00	1.94	518
	2.50	2.39	419
50×25	2.00	2.15	465
	2.60	2.71	369
	3.20	3.24	309
50×30	4.00	3.88	258
	2.00	2.41	418
	2.50	2.98	337
50×40	2.90	3.43	293
	2.00	2.88	370
	3.20	3.56	297
60×40	4.50	4.11	260
	2.60	3.73	268
	3.20	4.50	222
66×33	4.50	6.02	166
	2.60	3.69	271
	3.20	4.45	225
75×25	4.50	5.95	168
	2.60	3.73	268
	3.20	4.50	222
80×40	4.50	6.02	166
	2.90	5.03	199
	3.50	5.96	168
96×48	4.50	7.43	135
	3.20	6.71	149
	4.00	8.22	122
90×60	5.00	10.01	100
	3.20	7.01	143
	4.00	8.59	116
100×50	5.00	10.48	95
	3.20	7.01	143
	4.00	8.59	116
120×60	5.40	11.21	89
	6.00	12.27	81
	3.60	9.50	105
122×61	4.50	11.67	86
	5.40	13.76	73
	3.60	9.67	103
125×75	4.50	11.88	84
	5.40	14.01	71
	4.00	12.16	83
125×100	5.00	15.08	67
	6.00	17.95	56
	4.00	13.71	73
145×82	5.00	17.02	59
	6.00	20.27	49
	3.60	12.16	82
150×75	4.50	14.99	67
	5.40	17.74	56
	3.60	12.05	83
	4.50	14.85	67
	5.40	17.57	57

RHS	Thickness	Unit Weight	
150×100	3.60	13.46	74
	4.50	16.62	60
	5.40	19.69	51
172×92	3.60	14.25	70
	4.50	17.61	57
	5.40	20.88	48
200×100	4.50	20.15	50
	6.00	26.40	38
	7.00	30.44	33
200×150	4.50	20.15	50
	6.00	31.11	32
	8.00	40.66	25



General Technical Specification And Tolerances	
Spec	IS:4923:1997
Length	6.0mtrs +/-6.0mm Customized Length Ranging From 4mtrs To 8 mtrs My Be Supplied
Thickness	For All Sizes: +/- -10.0%
Outer Dimensions	1%With A Main. Of 0.5mm
Comer Squareness	90° +/- 2°
Comer Radii	Max 3x( Thickness Of The Section )
Weight	On Individual Length: + 10% - 8% On Lots Of MT : +/- 7.5%
Straightness	Min 1:600 <sup>0</sup> Of Any Length measured Along The Center Line (Mill Straightened Condition ) Unless Otherwise Specifically Arranged
Twist Tolerance	Max 2mm +/- 0.5mm/ 1m Length, The Measured Relative Shift Of Any Adjacent Comer Of The Measured By Keeping One Side On Flat Surface
End Finish	Plain Ended - Mechanically Sheared, Mill - Cut Finish Without Further Machining
Surface Finish	Black Without Any Surface Treatment Of Oiling Or Varnishing
Raw Material	Sulpher Content 0.05% Max Phosphorus Content 2.25 Max



# Elmazoor

# Steel

## Factories

Factory 1 :Qalama

Egypt - Alexandria agricultural road , 20 km

Factory 2 : Qalama

Egypt - Alexandria agricultural road , 19 km

Factory 3 : Kafr abu gomaa

Egypt - Alexandria agricultural road , 18 km

Factory 4 : Abu Sunna : slow way .Abu Sunna  
main street In front of Abu Sunna Post Office

Factory 5 : Meet nama . Ezbet Ayrout  
next to Ahmed Saeed Refrigerator

Basos. alqanatir alkhayrih .Qalyubia

Factory 6 : 10th of ramadan - industrial zone A/1 area 5/6

Factory 7 : 10th of ramadan - industrial zone A/5 area 204

Factory 8 : Zone 146 - ataqa suez

## Branches

NO. 125 Sabtiyah street - bulaq

NO. 3 Masaken street - sabtiyah  
souq elasr

NO. 78 Sidi said - alsabtiyah square

Qalioub - meet halfa - the slow road

Qalyub : The slow way

In front Eltemsah scale

H.office: villa754 elsheikh zayed  
hadayek elmohandeseen  
compound

[www.elmazoorsteel.com](http://www.elmazoorsteel.com)



Elmazoor Steel



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