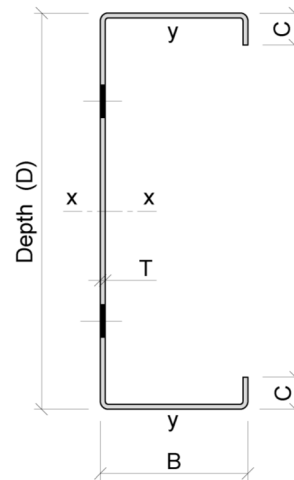


PRODUCT DESCRIPTION

TigerPROFILES C-Purlins are the secondary structural members used to support the roof sheeting / wall cladding. Besides being economical to use, they give an excellent strength- to- weight ratio, thus giving tremendous cost savings. They are characterized by: High strength to weight ratio; Economical; Can be used for large spans upto 11.0m; Quick installation and being mostly Custom made.



Measurement (in mm)	Roofing
Usage	
Material	Galvanized Iron (GI) Grade SQ-50 ASTM A653M
Material Thickness (Post Production)	Galvanized Iron (GI): 1.50 to 3.50mm
Dimensions	Span: Upto 11.0 metres Depth: 100 to 450mm
Coating/Finish	G90 (275 grams/m2 Zinc Coating)
Key Features	

*Minimum Specified Yield Stress (f_y) = 345 N/mm²



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NOMINAL DIMENSIONS							SECTION PROPERTIES							
SECTION REF.	WEIGHT Kg/m	AREA cm ²	DEPTH (D) mm	FLANGE (B) mm	Lip (C) mm	Thick (T) mm	I _{xx} cm ⁴	I _{yy} cm ⁴	r _{xx} cm	r _{yy} cm	J cm ⁴	C _w cm ⁶	M _x kN-m	M _y kN-m
142 C 15	3.22	4.10	142	55	20	1.50	125.2	17.5	5.53	2.06	0.031	860	3.65	1.01
142 C 18	3.86	4.91	142	55	21	1.80	149.3	20.9	5.51	2.06	0.053	1,040	2.55	1.21
142 C 20	4.29	5.46	142	55	21	2.00	165.1	23.2	5.50	2.06	0.073	1,161	5.02	1.33
142 C 23	4.93	6.28	142	55	22	2.30	188.6	26.6	5.48	2.06	0.111	1,345	5.69	1.49
142 C 25	5.36	6.83	142	55	23	2.50	204.0	28.8	5.47	2.05	0.142	1,469	6.13	1.60
182 C 15	3.59	4.58	182	55	16	1.50	219.1	17.1	6.92	1.93	0.034	1,241	5.08	1.04
182 C 18	4.31	5.49	182	55	17	1.80	261.8	20.5	6.91	1.93	0.059	1,497	6.34	1.23
182 C 20	4.79	6.10	182	55	17	2.00	290.1	22.8	6.90	1.93	0.081	1,668	7.00	1.36
182 C 23	5.51	7.02	182	55	18	2.30	332.0	26.1	6.88	1.93	0.124	1,928	7.97	1.53
182 C 25	5.99	7.63	182	55	19	2.50	359.8	28.4	6.87	1.93	0.159	2,102	8.61	1.64
202 C 15	3.92	5.00	202	60	15	1.50	294.1	21.2	7.67	2.06	0.038	1,847	5.99	1.19
202 C 18	4.71	5.99	202	60	16	1.80	315.6	25.5	7.66	2.06	0.065	2,227	7.37	1.42
202 C 20	5.23	6.66	202	60	16	2.00	389.7	28.3	7.65	2.06	0.089	2,483	8.37	1.56
202 C 23	6.02	7.66	202	60	17	2.30	446.5	32.6	7.64	2.06	0.135	2,868	9.69	1.76
202 C 25	6.54	8.33	202	60	18	2.50	484.1	35.4	7.63	2.06	0.173	3,128	10.47	1.89
232 C 15	4.54	5.78	232	70	16	1.50	452.6	33.3	8.85	2.40	0.043	3,737	7.02	1.52
232 C 18	5.44	6.93	232	70	17	1.80	541.4	40.0	8.84	2.40	0.075	4,507	9.10	1.82
232 C 20	6.05	7.70	232	70	17	2.00	600.3	44.5	8.83	2.40	0.103	5,019	10.18	2.01
232 C 23	6.96	8.85	232	70	18	2.30	688.8	51.2	8.82	2.40	0.156	5,797	12.22	2.26
232 C 25	7.56	9.63	232	70	19	2.50	746.4	55.6	8.81	2.40	0.201	6,319	13.34	2.43

1. Calculated in accordance with specifications for cold formed steel structural members, AISI manual - 2007 Edition

2. Material to be as per A653 SS Grade 50/1 (F_y=345 N/mm²).



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NOMINAL DIMENSIONS =								SECTION PROPERTIES *						
Minimum Specified Yield Stress (fy) = 345 N/mm2														
SECTION REF.	WEIGHT Kg/m	AREA cm ²	DEPTH (D) mm	FLANGE (B) mm	Lip (C) mm	Thick t mm	Ixx cm ⁴	Iyy cm ⁴	rx cm	ry cm	J cm ⁴	Cw cm ⁶	M _x kN-m	M _y kN-m
252 C 15	4.77	6.08	252	70	16	1.50	551.0	34.1	9.52	2.37	0.046	4,498	7.55	1.53
252 C 18	5.73	7.29	252	70	17	1.80	659.4	40.9	9.51	2.37	0.079	5,420	9.96	1.82
252 C 20	6.36	8.10	252	70	17	2.00	731.2	45.5	9.50	2.37	0.108	6,038	11.43	2.01
252 C 23	7.30	9.29	252	70	18	2.30	835.9	51.8	9.48	2.36	0.164	6,871	13.70	2.27
252 C 25	7.95	10.13	252	70	19	2.50	909.7	57.0	9.48	2.37	0.211	7,597	14.96	2.45
252 C 30	9.70	12.25	252	70	19	3.00	1,106.9	68.9	9.51	2.37	0.367	8,253	18.19	2.85
302 C 18	7.00	8.91	302	90	17	1.80	1,181.8	81.0	11.52	3.01	0.096	14,852	12.04	2.75
302 C 20	7.78	9.90	302	90	17	2.00	1,311.2	90.1	11.51	3.02	0.132	16,543	14.27	3.03
302 C 23	8.94	11.39	302	90	18	2.30	1,504.6	103.7	11.50	3.02	0.201	19,095	18.14	3.43
302 C 25	9.72	12.38	302	90	19	2.50	1,633.0	112.9	11.49	3.02	0.258	20,807	20.11	3.69
302 C 30	11.87	14.95	302	90	20	3.00	1,980.7	136.4	11.51	3.02	0.448	22,961	25.23	4.32
342 C 18	7.88	10.03	342	100	18	1.80	1,702.0	111.5	13.03	3.34	0.108	25,983	13.58	3.28
342 C 20	8.75	11.14	342	100	18	2.00	1,888.7	124.1	13.02	3.34	0.149	28,935	16.08	3.62
342 C 23	10.06	12.81	342	100	19	2.30	2,167.9	142.9	13.01	3.34	0.226	33,386	20.36	4.11
342 C 25	10.94	13.93	342	100	20	2.50	2,353.5	155.4	13.00	3.34	0.290	36,370	23.58	4.42
342 C 30	13.28	16.56	342	100	20	3.00	2,778.4	167.9	13.00	3.34	0.497	36,535	30.42	5.18
402 C 18	8.92	11.33	402	100	20	1.80	2,590.8	126.1	14.93	3.36	0.122	38,295	15.45	3.32
402 C 20	9.89	12.57	402	100	20	2.00	2,869.4	139.2	14.93	3.36	0.167	42,173	18.06	3.67
402 C 23	11.34	14.41	402	100	20	2.30	3,279.0	157.8	14.93	3.36	0.254	47,722	22.30	4.17
402 C 25	12.30	15.63	402	100	20	2.50	3,549.1	170.0	14.93	3.36	0.326	51,313	25.30	4.48
402 C 30	14.70	18.36	402	100	20	3.00	4,094.6	175.0	14.93	3.36	0.551	52,868	33.39	4.05

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