



CARDINAL STEELS

TECHNICAL BROCHURE

About Us

Cardinal Steels manufacture and supply high-quality metal roofing sheets and metal roof cladding in a variety of profiles & finishes, cut to your exact size specifications.

Our steel roofing sheets and cladding are delivered nationwide within 7 days of your order being placed, to ensure your project stays on schedule and within budget.

We also offer express delivery, with orders delivered within just 48 hours, subject to availability and extra cost.

With manufacturer prices available on all our metal roofing sheets, we're able to pass the best possible deals and savings onto all our customers.





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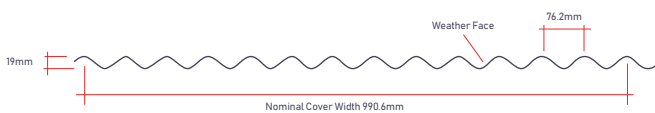
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Roof & Wall Sheets

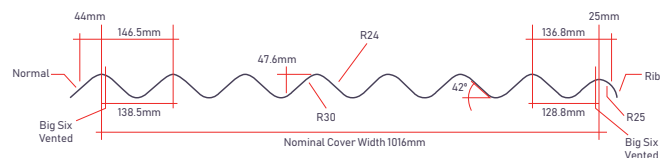
Our high-yield steel roofing and cladding sheets provide a tough, weather-resistant outer skin for industrial, agricultural, and domestic builds. We offer three high-performance finishes across an extensive color palette: traditional Galvanized, smooth Polyester, and heavy-duty Plastisol. Tailored ordering: Made-to-order lengths cut straight to your specifications. Optional anti-condensation fleece backing can be specified on any profile to control internal moisture in uninsulated buildings.



3" Corrugated



Big 6



3" Corrugated

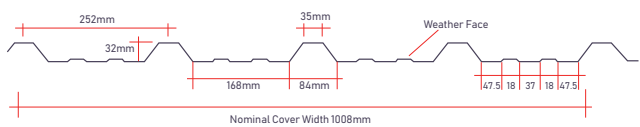
Thickness	Span Type	Working Loads UDL (kN/sq.m) for Varying Spans (m)											
		1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1
0.7	Single	2.34	1.74	1.33	1.04	0.83	0.67	0.55	-	-	-	-	-
	Double	3.66	3.10	2.66	2.31	1.99	1.61	1.32	1.10	0.92	0.78	0.67	0.57
	Multiple	3.91	2.90	2.22	1.73	1.38	1.11	0.91	0.76	0.64	0.54	-	-

Big 6

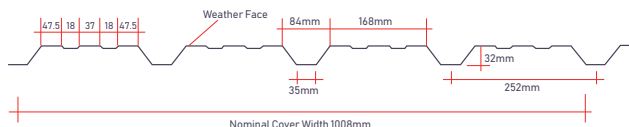
Thickness	Span Type	Working Loads UDL (kN/sq.m) for Varying Spans (m)										
		0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8
0.7	Single	11.78	7.54	5.23	3.84	2.76	1.94	1.41	1.06	0.82	-	-
	Double	7.78	5.49	4.10	3.18	2.54	2.08	1.73	1.47	1.26	1.07	0.86
	Multiple	9.29	6.60	4.94	3.85	3.08	2.53	2.11	1.77	1.36	1.07	0.86



32/1000 Box Profile Roof



32/1000 Box Profile Wall



32/1000 Box Profile

Single Span

Thickness	Working Loads UDL (kN/sq.m) for Varying Spans (m)																
	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
0.5	2.56	2.32	2.13	1.82	1.57	1.37	1.20	1.07	0.94	0.80	0.69	0.59	0.52	0.45	0.40	0.35	0.31
0.7	5.10	4.37	3.67	3.13	2.70	2.35	1.94	1.62	1.36	1.16	0.99	0.86	0.75	0.65	0.57	0.51	0.45

Double Span

Thickness	Working Loads UDL (kN/sq.m) for Varying Spans (m)																
	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
0.5	1.63	1.43	1.26	1.13	1.01	0.92	0.83	0.76	0.70	0.65	0.60	0.55	0.51	0.48	0.45	0.42	0.40
0.7	2.82	2.45	2.16	1.91	1.71	1.54	1.39	1.26	1.15	1.06	0.97	0.90	0.83	0.78	0.72	0.68	0.63

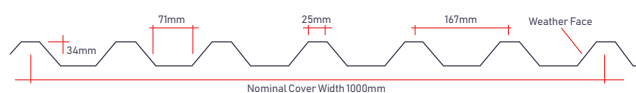
Multiple Span

Thickness	Working Loads UDL (kN/sq.m) for Varying Spans (m)																
	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
0.5	1.91	1.68	1.49	1.63	1.20	1.09	0.99	0.91	0.83	0.77	0.71	0.66	0.62	0.58	0.54	0.51	0.48
0.7	3.34	2.91	2.57	2.28	2.04	1.84	1.66	1.52	1.39	1.27	1.17	1.08	1.01	0.94	0.87	0.82	0.75

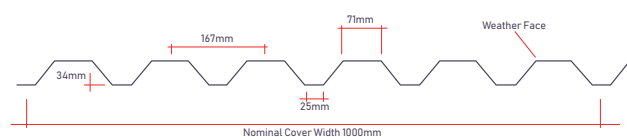




34/1000 Box Profile Roof



34/1000 Box Profile Wall



34/1000 Box Profile

Single Span

Thickness	Working Loads UDL (kN/sq.m) for Varying Spans (m)														
	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
0.5	5.10	4.19	3.50	2.97	2.55	2.06	1.69	1.40	1.18	1.00	0.85	0.73	0.64	0.56	-
0.7	8.31	6.82	5.70	4.77	3.79	3.07	2.52	2.09	1.75	1.48	1.27	1.09	0.95	0.83	0.73

Double Span

Thickness	Working Loads UDL (kN/sq.m) for Varying Spans (m)														
	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
0.5	2.69	2.33	2.04	1.80	1.60	1.43	1.29	1.17	1.06	0.97	0.89	0.82	0.76	0.70	0.66
0.7	4.54	3.92	3.42	3.01	2.67	2.39	2.15	1.95	1.77	1.62	1.48	1.36	1.26	1.17	1.08

Multiple Span

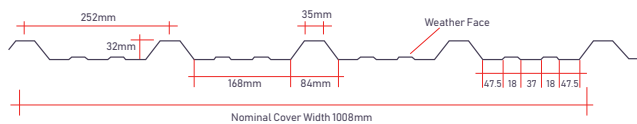
Thickness	Working Loads UDL (kN/sq.m) for Varying Spans (m)														
	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
0.5	3.20	2.77	2.43	2.15	1.91	1.72	1.55	1.41	1.28	1.17	1.08	0.99	0.92	0.85	0.79
0.7	5.40	4.67	4.08	3.60	3.21	2.87	2.59	2.35	2.14	1.95	1.79	1.65	1.53	1.38	1.21

GRP Rooflights

Bring sustainable, cost-effective daylighting to your projects with our premium GRP rooflights. Engineered from high-strength fiberglass, these sheets offer superior impact performance and profile matching. By scattering natural light evenly across large internal areas, they drastically lower energy costs while offering a tough, low-maintenance lifespan that mirrors the durability of your metal cladding.



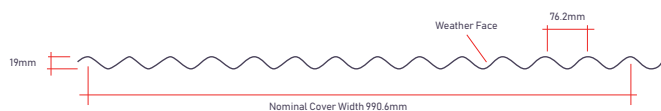
32/1000 Box Profile Rooflight



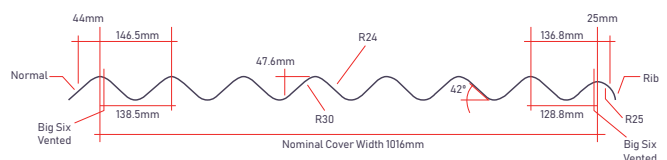
34/1000 Box Profile Rooflight



3" Corrugated Rooflight



Big 6 Rooflight

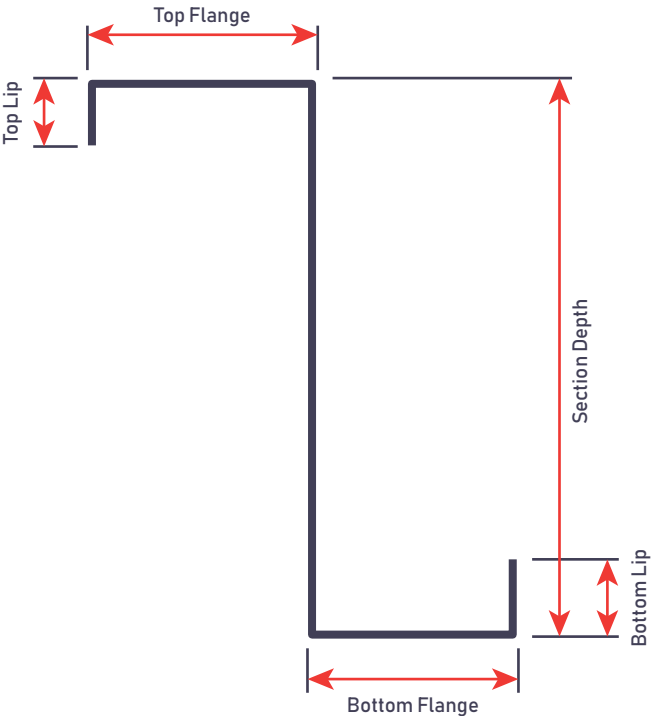


Purlins & Sections

Z Purlins

Engineered to provide optimal structural support for your roofing and cladding systems, our cold-rolled structural Z-purlins offer an exceptional strength-to-weight ratio. Manufactured from premium galvanized steel to resist corrosion, their clever Z-profile design allows for overlapping at the joints, making them ideal for continuous or multi-span beam applications. We can manufacture our purlins to your exact project specifications, complete with pre-drilled options for rapid on-site assembly.

Depth	Thickness	Top Flange	Bottom Flange	Top Lip	Bottom Lip	Kg/m
121	1.6	55	50	18	16	3.19
140	1.4	55	50	18	16	3
140	1.6	55	50	18	16	3.42
140	1.8	55	50	18	16	3.84
140	2	55	50	18	16	4.25
140	2.5	55	50	18	16	5.28
177	1.4	55	50	18	16	3.41
177	1.6	55	50	18	16	3.89
177	1.8	55	50	18	16	4.36
177	2	55	50	18	16	4.84
177	2.5	55	50	18	16	6.01
200	1.4	61	55	17	17	3.78
200	1.6	61	55	17	17	4.32
200	1.8	61	55	17	17	4.84
200	2	61	55	17	17	5.37
200	2.5	61	55	17	17	6.67
235	1.6	65	60	20	18	4.92
235	1.8	65	60	20	18	5.52
235	2	65	60	20	18	6.12
235	2.5	65	60	20	18	7.61
265	1.6	65	60	20	18	5.3
265	1.8	65	60	20	18	5.95
265	2	65	60	20	18	6.59
265	2.5	65	60	20	18	8.2



Z Purlins Span Loads

Span (metres)	Purlin size	UDL kN	Allowable Loads (kN/sq.m) for Varying Purlin Centres (mm)							
			1000	1200	1375	1500	1675	1800	2000	2500
3.5m	121-16	6.64	1.90	1.58	1.38	1.27	1.13	1.05	0.95	0.76
	140-14	8.24	2.35	1.96	1.71	1.57	1.41	1.31	1.18	0.94
	140-16	9.36	2.67	2.23	1.94	1.78	1.60	1.49	1.34	1.07
	140-18	10.46	2.99	2.49	2.17	1.99	1.78	1.66	1.49	1.20
	140-20	11.55	3.30	2.75	2.40	2.20	1.97	1.83	1.65	1.32
	177-14	13.43	3.84	3.20	2.79	2.56	2.29	2.13	1.92	1.54
	177-16	16.29	4.65	3.88	3.38	3.10	2.78	2.59	2.33	1.86
4m	121-16	5.04	1.26	1.05	0.92	0.84	0.75	0.70	0.63	0.50
	140-14	6.27	1.57	1.31	1.14	1.04	0.94	0.87	0.78	0.63
	140-16	7.12	1.78	1.48	1.29	1.19	1.06	0.99	0.89	0.71
	140-18	7.96	1.99	1.66	1.45	1.33	1.19	1.11	0.99	0.80
	140-20	8.78	2.20	1.83	1.60	1.46	1.31	1.22	1.10	0.88
	177-14	10.93	2.73	2.28	1.99	1.82	1.63	1.52	1.37	1.09
	177-16	12.42	3.11	2.59	2.26	2.07	1.85	1.73	1.55	1.24
	177-18	13.90	3.47	2.89	2.53	2.32	2.07	1.93	1.74	1.39
	200-14	13.55	3.39	2.82	2.46	2.26	2.02	1.88	1.69	1.35
	200-16	16.84	4.21	3.51	3.06	2.81	2.51	2.34	2.11	1.68
4.5m	140-16	5.58	1.24	1.03	0.90	0.83	0.74	0.69	0.62	0.50
	140-18	6.24	1.39	1.15	1.01	0.92	0.83	0.77	0.69	0.55
	140-20	6.89	1.53	1.28	1.11	1.02	0.91	0.85	0.77	0.61
	140-25	8.47	1.88	1.57	1.37	1.25	1.12	1.05	0.94	0.75
	177-14	8.59	1.91	1.59	1.39	1.27	1.14	1.06	0.95	0.76
	177-16	9.76	2.17	1.81	1.58	1.45	1.30	1.21	1.08	0.87
	177-18	10.92	2.43	2.02	1.77	1.62	1.45	1.35	1.21	0.97
	177-20	12.07	2.68	2.23	1.95	1.79	1.60	1.49	1.34	1.07
	177-25	14.87	3.31	2.75	2.40	2.20	1.97	1.84	1.65	1.32
	200-14	12.01	2.67	2.22	1.94	1.78	1.59	1.48	1.33	1.07
	200-16	13.83	3.07	2.56	2.24	2.05	1.84	1.71	1.54	1.23
	200-18	15.49	3.44	2.87	2.50	2.29	2.05	1.91	1.72	1.38
	200-20	17.12	3.80	3.17	2.77	2.54	2.27	2.11	1.90	1.52
	140-20	5.52	1.10	0.92	0.80	0.74	0.66	0.61	0.55	0.44
5m	140-25	6.79	1.36	1.13	0.99	0.91	0.81	0.75	0.68	0.54
	177-14	6.91	1.38	1.15	1.01	0.92	0.83	0.77	0.69	0.55
	177-16	7.86	1.57	1.31	1.14	1.05	0.94	0.87	0.79	0.63
	177-18	8.79	1.76	1.46	1.28	1.17	1.05	0.98	0.88	0.70
	177-20	9.71	1.94	1.62	1.41	1.29	1.16	1.08	0.97	0.78
	177-25	11.97	2.39	1.99	1.74	1.60	1.43	1.33	1.20	0.96
	200-16	11.15	2.23	1.86	1.62	1.49	1.33	1.24	1.11	0.89
	200-18	12.48	2.50	2.08	1.82	1.66	1.49	1.39	1.25	1.00
	200-20	13.80	2.76	2.30	2.01	1.84	1.65	1.53	1.38	1.10
	140-25	5.54	1.01	0.84	0.73	0.67	0.60	0.56	0.50	0.40
5.5m	177-16	6.44	1.17	0.98	0.85	0.78	0.70	0.65	0.59	0.47
	177-18	7.20	1.31	1.09	0.95	0.87	0.78	0.73	0.65	0.52
	177-20	7.96	1.45	1.21	1.05	0.96	0.86	0.80	0.72	0.58
	177-25	9.81	1.78	1.49	1.30	1.19	1.06	0.99	0.89	0.71
	200-16	9.16	1.66	1.39	1.21	1.11	0.99	0.92	0.83	0.67
	200-18	10.25	1.86	1.55	1.36	1.24	1.11	1.04	0.93	0.75
	200-20	11.33	2.06	1.72	1.50	1.37	1.23	1.14	1.03	0.82
	200-25	13.98	2.54	2.12	1.85	1.69	1.52	1.41	1.27	1.02

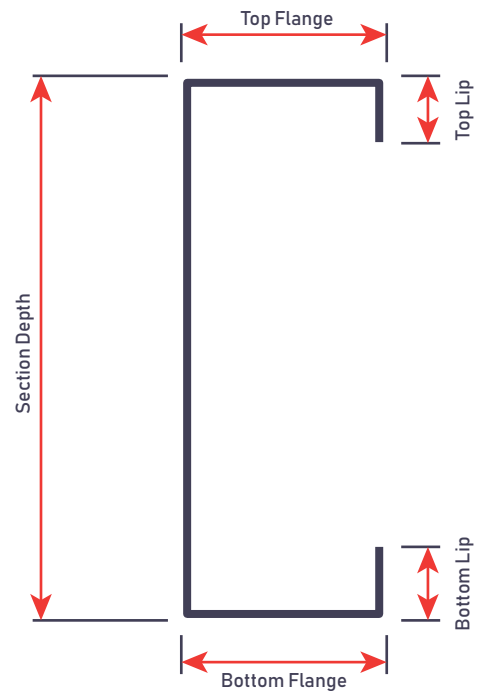
Z Purlins Span Loads

Span (metres)	Purlin size	UDL kN	Allowable Loads (kN/sq.m) for Varying Purlin Centres (mm)							
			1000	1200	1375	1500	1675	1800	2000	2500
6m	177-20	6.62	1.10	0.92	0.80	0.74	0.66	0.61	0.55	0.44
	177-25	8.16	1.36	1.13	0.99	0.91	0.81	0.76	0.68	0.54
	200-16	7.64	1.27	1.06	0.93	0.85	0.76	0.71	0.64	0.51
	200-18	8.55	1.42	1.19	1.04	0.95	0.85	0.79	0.71	0.57
	200-20	9.45	1.57	1.31	1.15	1.05	0.94	0.87	0.79	0.63
	200-25	11.66	1.94	1.62	1.41	1.30	1.16	1.08	0.97	0.78
	235-16	11.91	1.99	1.65	1.44	1.32	1.19	1.10	0.99	0.79
	235-18	13.34	2.22	1.85	1.62	1.48	1.33	1.24	1.11	0.89
6.5m	200-18	7.22	1.11	0.93	0.81	0.74	0.66	0.62	0.56	0.44
	200-20	7.98	1.23	1.02	0.89	0.82	0.73	0.68	0.61	0.49
	200-25	9.84	1.51	1.26	1.10	1.01	0.90	0.84	0.76	0.61
	235-16	10.08	1.55	1.29	1.13	1.03	0.93	0.86	0.78	0.62
	235-18	11.29	1.74	1.45	1.26	1.16	1.04	0.97	0.87	0.70
	235-20	12.49	1.92	1.60	1.40	1.28	1.15	1.07	0.96	0.77
	265-16	13.51	2.08	1.73	1.51	1.39	1.24	1.15	1.04	0.83
	265-18	15.14	2.33	1.94	1.69	1.55	1.39	1.29	1.16	0.93
7m	200-25	8.40	1.20	1.00	0.87	0.80	0.72	0.67	0.60	0.48
	235-16	8.63	1.23	1.03	0.90	0.82	0.74	0.68	0.62	0.49
	235-18	9.66	1.38	1.15	1.00	0.92	0.82	0.77	0.69	0.55
	235-20	10.69	1.53	1.27	1.11	1.02	0.91	0.85	0.76	0.61
	265-16	11.58	1.65	1.38	1.20	1.10	0.99	0.92	0.83	0.66
	265-18	12.97	1.85	1.54	1.35	1.24	1.11	1.03	0.93	0.74
	265-20	14.35	2.05	1.71	1.49	1.37	1.22	1.14	1.03	0.82
	235-16	7.45	0.99	0.83	0.72	0.66	0.59	0.55	0.50	0.40
7.5m	235-18	8.34	1.11	0.93	0.81	0.74	0.66	0.62	0.56	0.44
	235-20	9.23	1.23	1.03	0.89	0.82	0.73	0.68	0.62	0.49
	235-25	11.40	1.52	1.27	1.11	1.01	0.91	0.84	0.76	0.61
	265-16	10.01	1.34	1.11	0.97	0.89	0.80	0.74	0.67	0.53
	265-18	11.22	1.50	1.25	1.09	1.00	0.89	0.83	0.75	0.60
	265-20	12.41	1.66	1.38	1.20	1.10	0.99	0.92	0.83	0.66
	265-25	15.35	2.05	1.71	1.49	1.36	1.22	1.14	1.02	0.82
	235-25	9.92	1.24	1.03	0.90	0.83	0.74	0.69	0.62	0.50
8m	265-16	8.73	1.09	0.91	0.79	0.73	0.65	0.61	0.55	0.44
	265-18	9.78	1.22	1.02	0.89	0.81	0.73	0.68	0.61	0.49
	265-20	10.82	1.35	1.13	0.98	0.90	0.81	0.75	0.68	0.54
	265-25	13.38	1.67	1.39	1.22	1.12	1.00	0.93	0.84	0.67
	235-25	8.68	1.02	0.85	0.74	0.68	0.61	0.57	0.51	0.41
8.5m	265-16	7.66	0.90	0.75	0.66	0.60	0.54	0.50	0.45	0.36
	265-18	8.58	1.01	0.84	0.73	0.67	0.60	0.56	0.50	0.40
	265-20	9.49	1.12	0.93	0.81	0.74	0.67	0.62	0.56	0.45
	265-25	11.74	1.38	1.15	1.00	0.90	0.82	0.77	0.69	0.55
	265-18	7.57	0.84	0.70	0.61	0.56	0.50	0.47	0.42	0.34
9m	265-20	8.37	0.93	0.78	0.68	0.62	0.56	0.52	0.47	0.37
	265-25	10.36	1.15	0.96	0.84	0.77	0.69	0.64	0.58	0.46
	265-20	7.42	0.78	0.65	0.57	0.52	0.47	0.43	0.39	0.31
9.5m	265-25	9.18	0.97	0.81	0.70	0.64	0.58	0.54	0.48	0.39
	265-20	6.61	0.66	0.55	0.48	0.44	0.39	0.37	0.33	0.26
10m	265-25	8.17	0.82	0.68	0.59	0.54	0.49	0.45	0.41	0.33

Cee Sections

Form accurate, ultra-stable structural frames with our high-tensile, cold-rolled Cee sections. Featuring equal flanges, our C-sections are the ideal choice for wall rails, door framing, window trimmers, and roof parapet supports. Roll-formed from premium galvanized steel to guarantee long-term corrosion resistance, they offer clean, square edges for straightforward structural connection. We custom-manufacture them to your exact engineering dimensions and pre-drilled hole patterns.

Depth	Thickness	Top Flange	Bottom Flange	Top Lip	Bottom Lip	Kg/m
140	1.4	65	65	15	15	3.24
140	1.6	65	65	15	15	3.69
140	1.8	65	65	15	15	4.14
140	2	65	65	15	15	4.58
140	2.5	65	65	15	15	5.69
177	1.4	65	65	15	15	3.64
177	1.6	65	65	15	15	4.15
177	1.8	65	65	15	15	4.66
177	2	65	65	15	15	5.17
177	2.5	65	65	15	15	6.42
200	1.4	65	65	15	15	3.89
200	1.6	65	65	15	15	4.44
200	1.8	65	65	15	15	4.99
200	2	65	65	15	15	5.53
200	2.5	65	65	15	15	6.87
235	1.6	65	65	15	15	4.88
235	1.8	65	65	15	15	5.48
235	2	65	65	15	15	6.08
235	2.5	65	65	15	15	7.56
265	1.6	65	65	15	15	5.26
265	1.8	65	65	15	15	5.9
265	2	65	65	15	15	6.55
265	2.5	65	65	15	15	8.14



Cee Sections Span Loads

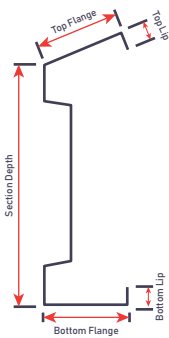
Span (metres)	Section size	UDL kN	Allowable Loads (kN/sq.m) for Varying Purlin Centres (mm)							
			1000	1200	1375	1500	1675	1800	2000	2500
3.5m	140-14	11.21	3.20	2.67	2.33	2.14	1.91	1.78	1.60	1.28
	140-16	12.73	3.64	3.03	2.65	2.43	2.17	2.02	1.82	1.46
4m	140-14	8.54	2.14	1.78	1.55	1.42	1.27	1.19	1.07	0.85
	140-16	9.70	2.43	2.02	1.76	1.62	1.45	1.35	1.21	0.97
4.5m	140-14	6.71	1.49	1.24	1.08	0.99	0.89	0.83	0.75	0.60
	140-16	7.62	1.69	1.41	1.23	1.13	1.01	0.94	0.85	0.68
	140-18	8.52	1.89	1.58	1.38	1.26	1.13	1.05	0.95	0.76
	140-20	9.41	2.09	1.74	1.52	1.39	1.25	1.16	1.05	0.84
	177-14	11.58	2.57	2.14	1.87	1.72	1.54	1.43	1.29	1.03
	177-16	13.17	2.93	2.44	2.13	1.95	1.75	1.63	1.46	1.17
	140-18	6.84	1.37	1.14	1.00	0.91	0.82	0.76	0.68	0.55
	140-20	7.56	1.51	1.26	1.10	1.01	0.90	0.84	0.76	0.60
5m	177-14	9.33	1.87	1.56	1.36	1.24	1.11	1.04	0.93	0.75
	177-16	10.61	2.12	1.77	1.54	1.41	1.27	1.18	1.06	0.85
	177-18	11.87	2.37	1.98	1.73	1.58	1.42	1.32	1.19	0.95
	200-16	14.16	2.83	2.36	2.06	1.89	1.69	1.57	1.42	1.13
	140-25	7.61	1.38	1.15	1.01	0.92	0.83	0.77	0.69	0.55
5.5m	177-16	8.71	1.58	1.32	1.15	1.06	0.95	0.88	0.79	0.63
	177-18	9.75	1.77	1.48	1.29	1.18	1.06	0.98	0.89	0.71
	177-20	10.78	1.96	1.63	1.43	1.31	1.17	1.09	0.98	0.78
	200-16	11.64	2.12	1.76	1.54	1.41	1.26	1.18	1.06	0.85
	200-18	13.03	2.37	1.97	1.72	1.58	1.41	1.32	1.18	0.95
6m	177-16	7.27	1.21	1.01	0.88	0.81	0.72	0.67	0.61	0.48
	177-18	8.13	1.36	1.13	0.99	0.90	0.81	0.75	0.68	0.54
	177-20	8.99	1.50	1.25	1.09	1.00	0.89	0.83	0.75	0.60
	200-16	9.72	1.62	1.35	1.18	1.08	0.97	0.90	0.81	0.65
	200-18	10.88	1.81	1.51	1.32	1.21	1.08	1.01	0.91	0.73
	200-20	12.03	2.01	1.67	1.46	1.34	1.20	1.11	1.00	0.80
6.5m	200-16	8.22	1.27	1.05	0.92	0.84	0.76	0.70	0.63	0.51
	200-18	9.20	1.42	1.18	1.03	0.94	0.85	0.79	0.71	0.57
	200-20	10.18	1.57	1.30	1.14	1.04	0.93	0.87	0.78	0.63
	235-16	12.12	1.86	1.55	1.36	1.24	1.11	1.04	0.93	0.75
	235-18	13.85	2.09	1.74	1.52	1.39	1.25	1.16	1.04	0.84
7m	200-25	10.74	1.53	1.28	1.12	1.02	0.92	0.85	0.77	0.61
	235-16	10.39	1.48	1.24	1.08	0.99	0.89	0.82	0.74	0.59
	235-18	11.63	1.66	1.38	1.21	1.11	0.99	0.92	0.83	0.66
	235-20	12.87	1.84	1.53	1.34	1.23	1.10	1.02	0.92	0.74
	265-16	13.17	1.88	1.57	1.37	1.25	1.12	1.05	0.94	0.75
	265-18	15.58	2.23	1.85	1.62	1.48	1.33	1.24	1.11	0.89
7.5m	200-25	9.26	1.23	1.03	0.90	0.82	0.74	0.69	0.62	0.49
	235-18	10.06	1.34	1.12	0.98	0.89	0.80	0.74	0.67	0.54
	235-20	11.12	1.48	1.24	1.08	0.99	0.89	0.82	0.74	0.59
	265-16	11.59	1.55	1.29	1.12	1.03	0.92	0.86	0.77	0.62
	265-18	13.49	1.80	1.50	1.31	1.20	1.07	1.00	0.90	0.72
8m	235-18	8.76	1.10	0.91	0.80	0.73	0.65	0.61	0.55	0.44
	235-20	9.69	1.21	1.01	0.88	0.81	0.72	0.67	0.61	0.48
	265-18	11.78	1.47	1.23	1.07	0.98	0.88	0.82	0.74	0.59
	265-20	13.03	1.63	1.36	1.18	1.09	0.97	0.90	0.81	0.65
8.5m	235-18	7.69	0.90	0.75	0.66	0.60	0.54	0.50	0.45	0.36
	235-20	8.50	1.00	0.83	0.73	0.67	0.60	0.56	0.50	0.40
	265-16	8.86	1.04	0.87	0.76	0.69	0.62	0.58	0.52	0.42
	265-18	10.35	1.22	1.01	0.89	0.81	0.73	0.68	0.61	0.49
9m	235-25	8.27	1.03	0.86	0.75	0.69	0.61	0.57	0.51	0.41
	265-18	9.15	1.02	0.85	0.74	0.68	0.61	0.56	0.51	0.41
	265-20	10.12	1.12	0.94	0.82	0.75	0.67	0.62	0.56	0.45
9.5m	265-20	8.99	0.95	0.79	0.69	0.63	0.57	0.53	0.47	0.38
	265-25	11.12	1.17	0.98	0.85	0.78	0.70	0.65	0.59	0.47
10m	265-20	8.03	0.80	0.67	0.58	0.54	0.48	0.45	0.40	0.32
	265-25	9.92	0.99	0.83	0.72	0.66	0.59	0.55	0.50	0.40

Eaves Beams & Cleats

Our cold-rolled galvanized eaves beams are engineered to withstand complex wind and structural loads at the eaves joint. Combining high-tensile strength with optimal structural efficiency, they create a reliable, weather-tight junction for industrial and commercial frames. Tailored to Your Blueprint: Every eaves beam is manufactured to order. This allows us to precision-bend the top flange to your exact roof slope and supply custom lengths to eliminate on-site modification.

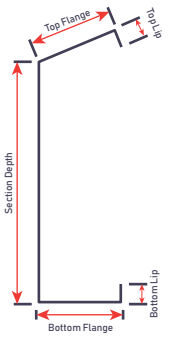
Recessed Eaves Beams

Depth	Thickness	Top Flange	Bottom Flange	Top Lip	Bottom Lip
190	20	100	100	19	19

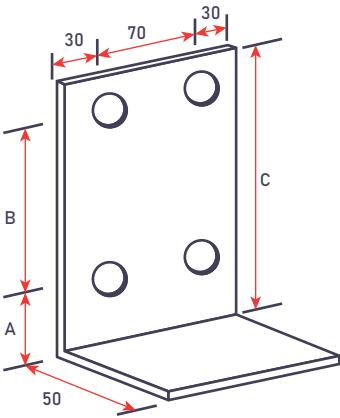


Flat Faced Eaves Beams

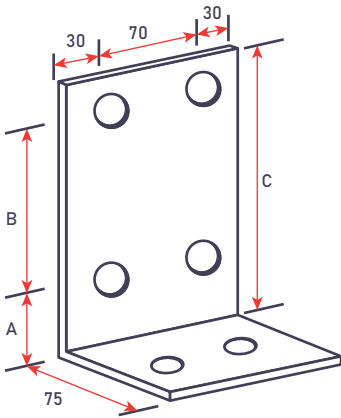
Depth	Thickness	Top Flange	Bottom Flange	Top Lip	Bottom Lip
190	20	100	100	19	19
235	20	85	85	19	17
265	20	100	100	19	19
265	25	100	100	19	19



Bolt On Cleat



Weld On Cleat

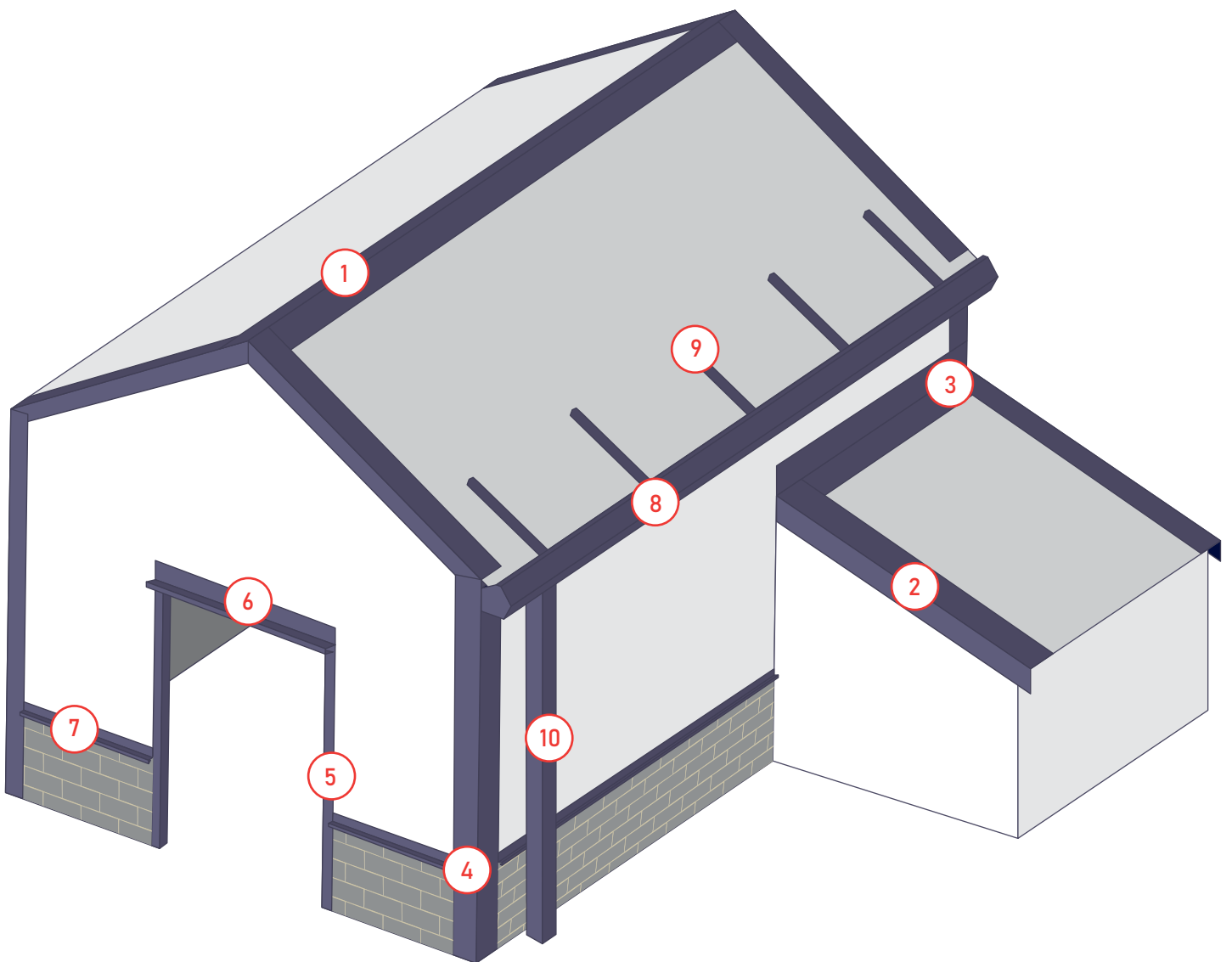


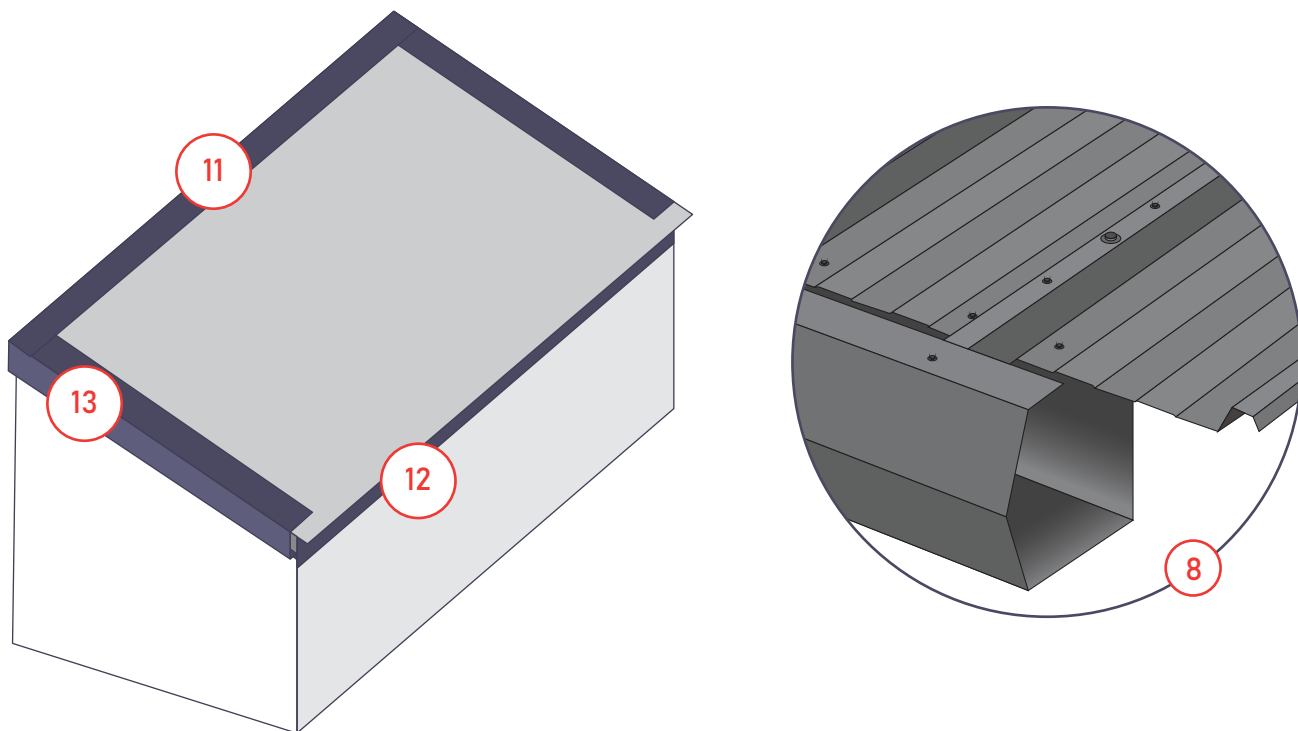
Our structural cleats provide the critical mechanical link between primary frames and secondary Z or C profiles. Manufactured from heavy-duty structural steel to meet strict load-bearing standards. Choose from weld-on options for direct workshop fabrication, or pre-drilled bolt-on configurations for rapid, drill-free alignment and assembly on-site.

Size	Thickness	A	B	C	Hole Diameter
121	6	50	40	120	18
140	6	50	60	140	18
177	6	50	80	160	18
200	6	50	116	196	18
235	8	50	146	226	18
265	8	50	176	256	18

Flashings

Complete your building envelope with our high-performance flashings and architectural Trimline guttering. Engineered to provide a sleek, crisp finish while ensuring total weather-tightness, our systems are available in a wide range of standard profiles, colours, and coatings to match your cladding perfectly. We specialize in bespoke fabrications—simply provide your drawing, and we will manufacture custom flashings tailored specifically to your project requirements.





Flashing Types

1. **Ridge** - To cover the apex of a roof
2. **Barge Board** - 90 degree flashing to cover end of sheets on gable end
3. **Abutment** - To seal where sheets meet existing structure
4. **Corner** - 90 degree flashing to seal corners of cladding (also referred to as Barge)
5. **Jamb** - Small 90 degree flashing to seal side edges of door and window openings
6. **Head** - To direct water away from the top of door and window openings
7. **Drip** - To direct water away from the bottom edge of cladding sheets, can also be used on bottom of window openings
8. **Trimline Gutter** - Gutter system that protects the bottom edge of roofing sheets
9. **Gutter Support Arms** - Used to attach the trimline gutter to the ridge of the sheets
10. **Box Downpipe** - To drain water away from gutter
11. **Mono Ridge** - To cap off the top of the sheets on a single slope structure
12. **Eaves** - To cover and protect the front support for the sheets, sitting under the bottom of the sheets
13. **Shadowline Barge** - To cover the side of the sheets on gable end and tuck under to meet the wall (where the sheets have a slight overhang from the wall)

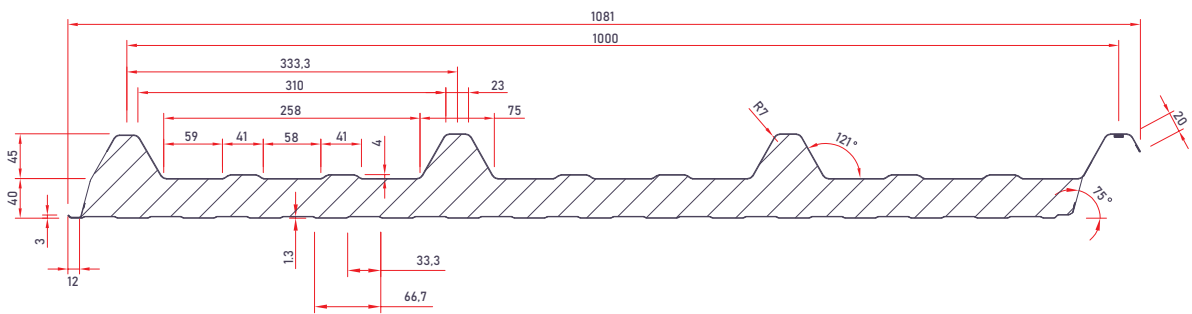
Composite Panels

Achieve industry-leading thermal efficiency and structural performance with our composite cladding panels. Combining an insulated core with robust steel faces in a single, factory-engineered component, these panels radically speed up installation times while



providing superior U-values. Manufactured specifically for your project: To guarantee a flawless fit and minimize on-site cutting and waste, all our composite panels are made to order. Simply specify your required lengths, core thicknesses, and profile styles, and we will manufacture them to your exact build program.

J11000 PIR Composite Roof



Core Thickness (mm)	40mm	60mm	80mm	100mm	120mm	150mm
Overall Thickness (mm)	85	105	125	145	165	195
U-value (W/sq.mK)	0.52	0.36	0.25	0.20	0.16	0.14
Weight (Kg/sq.m)	10.76	11.52	12.28	13.04	13.78	14.94
Rw (dB)	24 (-2;-4)	24 (-1;-4)	25 (-2;-4)	26 (-2;-5)	26 (-2;-4)	27 (-2;-5)

Span Type	Maximum Recommended Span Length for Panel Thickness (based on 2kN/sq.m)					
	40mm	60mm	80mm	100mm	120mm	150mm
Single	1800	2320	2610	2700	2810	2930
Double	1800	2320	2610	2700	2810	2930
Multiple	1800	2320	2610	2700	2810	2930



Contact Us

Whether you need a quotation, have a custom drawing for bespoke fabrications, or require technical support on building regulations, our team is here to help.

Phone: 01527 330 000

Email: sales@cardinalsteels.com

Website: www.cardinalsteels.com

Opening Hours

Monday to Thursday: 08:00 – 17:00

Friday: 08:00 – 14:00

Saturday & Sunday: Closed

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