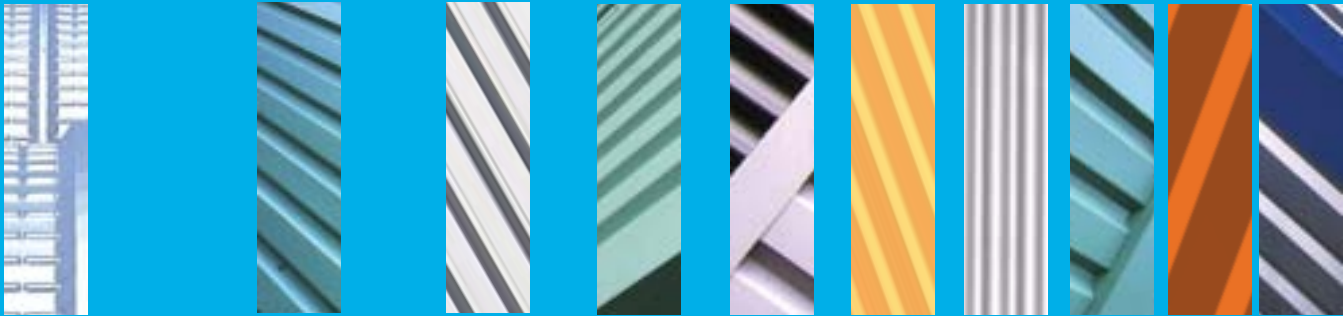
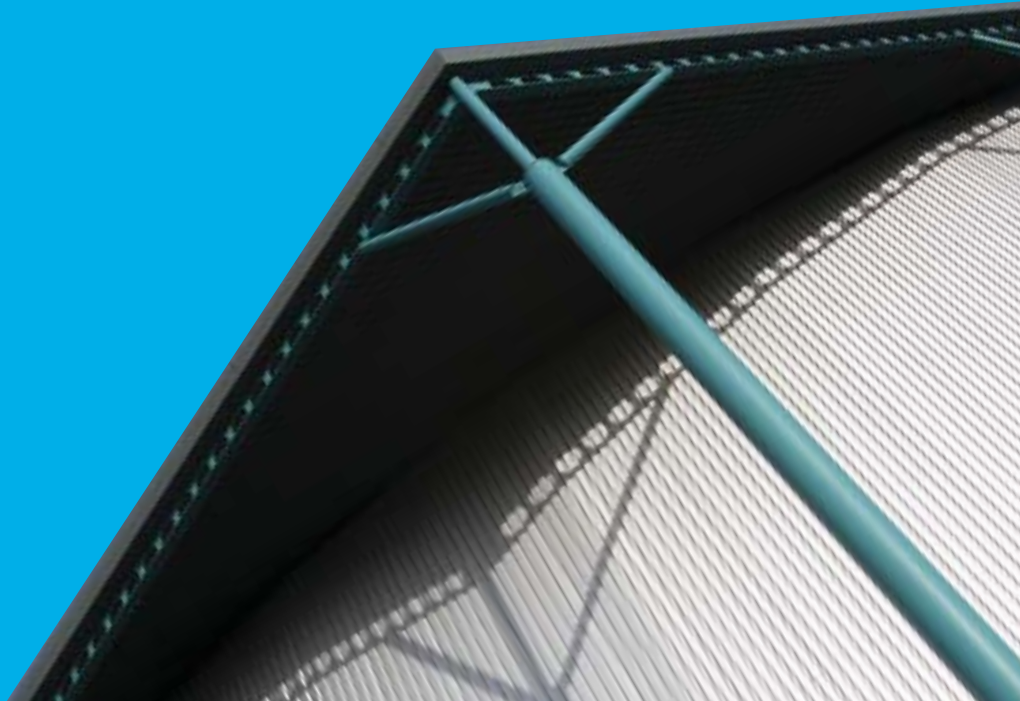


EUROCLAD



Cladding Profiles

Technical
Specifications





Introduction

Specifying Euroclad cladding profiles has several advantages. The shadow effect of the wide crest and narrow trough typical of these profiles is more pleasing to the eye. The fixings are more readily hidden and the side lap detail is less intrusive. Thus enhancing the aesthetics of the elevation.

The profiles may be fixed, horizontally, vertically or even diagonally. Each method has its own particular problems and pitfalls. Some suggestions to assist the cladding contractor are listed in the section on 'Manufacturer's Recommendations'.

Laying the cladding profile horizontally also allows the opportunity of including horizontally mitred corners or curved profile corners (smooth or crimped dependent upon choice and radius). Both of these features are covered in their relevant sections.

All profiles in this section may be curved. Often the feature of a hidden gutter contained above the eaves will allow a transfer from roof to cladding profile incorporating a curved eave. The wider crest of the cladding profile certainly enhances the curved eaves feature. In this, or in parapet wall situations the curved effect can be continued on the corners of the structure by the inclusion of curved mitred corners. These mitred corners may be manufactured at any angle to suit the structure.

All of the profiles listed are available in Corus Colorcoat HPS200® and Corus Colorcoat Prisma®, as well as Dobel 200XT and polyester coated aluminium.

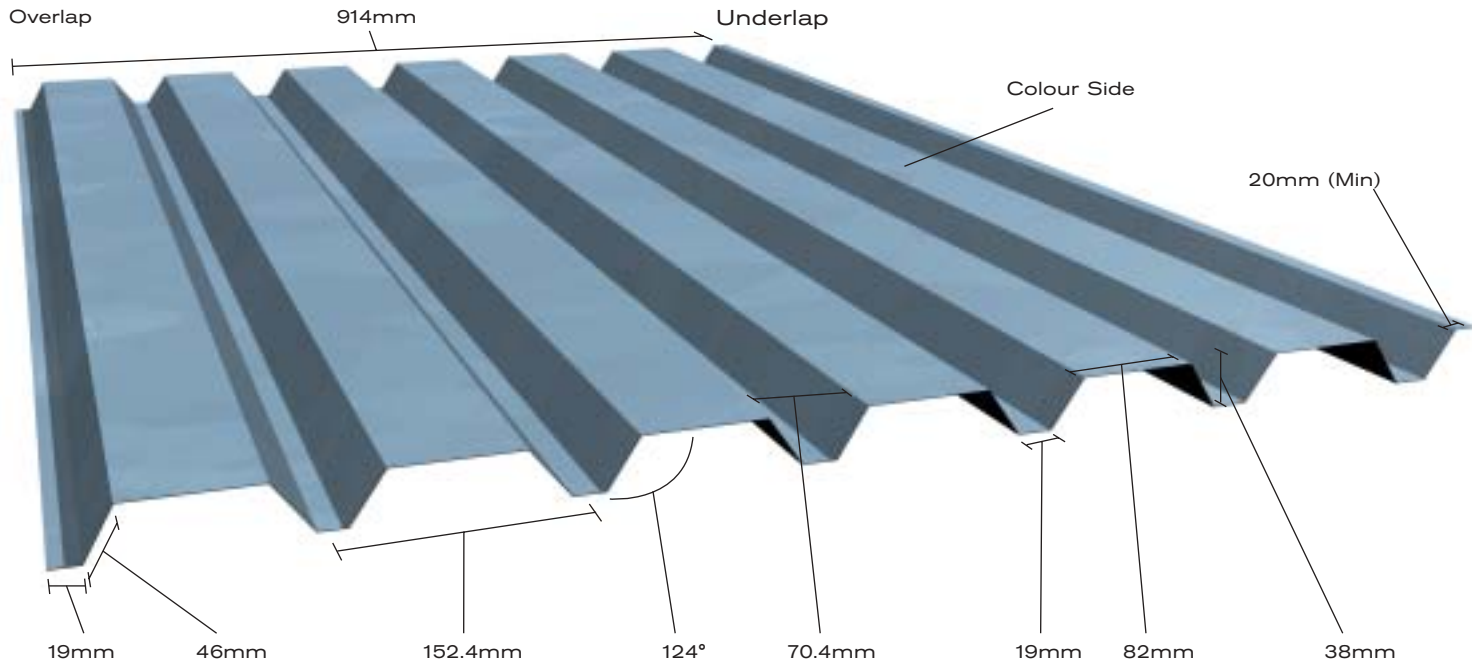
The information necessary for specifying and fixing cladding sheets is detailed in the section on 'Manufacturer's Recommendations'.

The profiles identified in this section may only be used in the vertical plane since their configuration and side lap detail preclude them from installation on a roof.

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914/38mm Reverse - Steel



Dimensions details	
Cover Width	914mm
Profile Pitch	152.4mm
Profile Depth	38mm
Crown Width	19mm
Valley Width	82mm
Rib Width	70.4mm
Web	46mm
Underlap (Right as shown above)	20mm (Minimum)
Overlap (Left as shown above)	19mm

Weight Per Linear Metre	
0.5mm	4.823 kgs
0.7mm	6.753 kgs
0.9mm	8.682 kgs

Deflection <L/150

Deflection Limit under working load = L/150

t(mm)	Mcap +ve (kNm/m)	Mcap -ve (kNm/m)	Ieff (mm4/m)	Rcap (kNm/m)
0.9	2.69	2.06	19.284	42.86
0.7	1.83	1.61	13.934	27.55
0.5	1.11	1.13	9.018	15.19

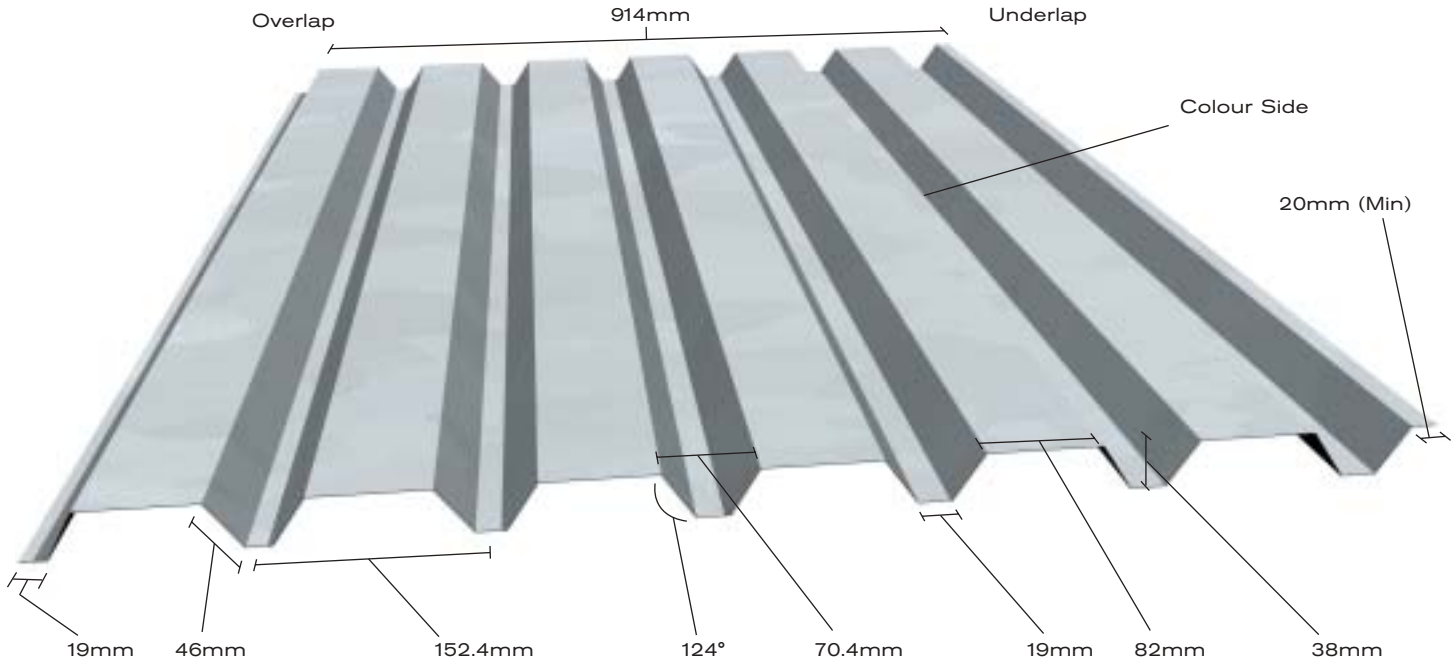
Profile Ref: 38/914 Reverse

Profile Type: Steel

Single Span Case - Permissible Working +ve Loads																		
Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.5mm	Moment	5.92	4.89	4.11	3.50	3.02	2.63	2.31	2.05	1.83	1.64	1.48	1.34	1.22	1.12	1.03	0.95	0.88
	Inertia	9.47	7.11	5.48	4.31	3.45	2.80	2.31	1.93	1.62	1.38	1.18	1.02	0.89	0.78	0.68	0.61	0.54
	Reaction	20.25	18.41	16.88	15.58	14.47	13.50	12.66	11.91	11.25	10.66	10.13	9.64	9.21	8.81	8.44	8.10	7.79
	Limiting	5.92	4.89	4.11	3.50	3.02	2.63	2.31	1.93	1.62	1.38	1.18	1.02	0.89	0.78	0.68	0.61	0.54
0.7mm	Moment	9.76	8.07	6.78	5.78	4.98	4.34	3.81	3.38	3.01	2.70	2.44	2.21	2.02	1.84	1.69	1.56	1.44
	Inertia	14.63	10.99	8.46	6.66	5.33	4.33	3.57	2.98	2.51	2.13	1.83	1.58	1.37	1.20	1.06	0.94	0.83
	Reaction	36.73	33.39	30.61	28.26	26.24	24.49	22.96	21.61	20.41	19.33	18.37	17.49	16.70	15.97	15.31	14.69	14.13
	Limiting	9.76	8.07	6.78	5.78	4.98	4.33	3.57	2.98	2.51	2.13	1.83	1.58	1.37	1.20	1.06	0.94	0.83
0.9mm	Moment	14.35	11.86	9.96	8.49	7.32	6.38	5.60	4.96	4.43	3.97	3.59	3.25	2.96	2.71	2.49	2.30	2.12
	Inertia	20.24	15.21	11.71	9.21	7.38	6.00	4.94	4.12	3.47	2.95	2.53	2.19	1.90	1.66	1.46	1.30	1.15
	Reaction	57.15	51.95	47.62	43.96	40.82	38.10	35.72	33.62	31.75	30.08	28.57	27.21	25.98	24.85	23.81	22.86	21.98
	Limiting	14.35	11.86	9.96	8.49	7.32	6.00	4.94	4.12	3.47	2.95	2.53	2.19	1.90	1.66	1.46	1.30	1.15

Double Span Case - Permissible Working +ve Loads																		
Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.5mm	Moment	6.03	4.98	4.19	3.57	3.07	2.68	2.35	2.09	1.86	1.67	1.51	1.37	1.25	1.14	1.05	0.96	0.89
	Inertia	22.80	17.13	13.19	10.38	8.31	6.76	5.57	4.64	3.91	3.32	2.85	2.46	2.14	1.87	1.65	1.46	1.30
	Reaction	12.66	11.51	10.55	9.74	9.04	8.44	7.91	7.45	7.03	6.66	6.33	6.03	5.75	5.50	5.27	5.06	4.87
	Interaction	4.75	4.09	3.55	3.12	2.76	2.46	2.21	1.99	1.81	1.65	1.51	1.38	1.28	1.18	1.09	1.02	0.95
	Limiting	4.75	4.09	3.55	3.12	2.76	2.46	2.21	1.99	1.81	1.65	1.51	1.37	1.25	1.14	1.05	0.96	0.89
0.7mm	Moment	8.59	7.10	5.96	5.08	4.38	3.82	3.35	2.97	2.65	2.38	2.15	1.95	1.77	1.62	1.49	1.37	1.27
	Inertia	35.23	26.47	20.39	16.04	12.84	10.44	8.60	7.17	6.04	5.14	4.40	3.80	3.31	2.90	2.55	2.25	2.00
	Reaction	22.96	20.87	19.13	17.66	16.40	15.31	14.35	13.50	12.75	12.08	11.48	10.93	10.44	9.98	9.57	9.18	8.83
	Interaction	8.47	7.27	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	8.47	7.10	5.96	5.08	4.38	3.82	3.35	2.97	2.65	2.38	2.15	1.95	1.77	1.62	1.49	1.37	1.27
0.9mm	Moment	10.99	9.08	7.63	6.50	5.61	4.88	4.29	3.80	3.39	3.04	2.75	2.49	2.27	2.08	1.91	1.76	1.63
	Inertia	48.76	36.63	28.22	22.19	17.77	14.45	11.90	9.92	8.36	7.11	6.09	5.26	4.58	4.01	3.53	3.12	2.77
	Reaction	35.72	32.47	29.76	27.47	25.51	23.81	22.32	21.01	19.84	18.80	17.86	17.01	16.23	15.53	14.88	14.29	13.74
	Interaction	12.73	10.91	9.46	8.28	7.32	6.51	5.83	5.25	4.76	4.33	3.96	3.63	3.35	3.09	2.87	2.66	2.48
	Limiting	10.99	9.08	7.63	6.50	5.61	4.88	4.29	3.80	3.39	3.04	2.75	2.49	2.27	2.08	1.91	1.76	1.63

914/38mm Reverse – Aluminium



Dimensions details	
Cover Width	914mm
Profile Pitch	152.4mm
Profile Depth	38mm
Crown Width	19mm
Valley Width	82mm
Rib Width	70.4mm
Web	46mm
Underlap (Right as shown above)	20mm (Minimum)
Overlap (Left as shown above)	19mm

Weight Per Linear Metre	
0.7mm Mill Finish	2.338 kgs
0.9mm Mill Finish	3.006 kgs
0.7mm One Side Coated	2.368 kgs
0.9mm One Side Coated	3.039 kgs

Deflection <L/200 Deflection Limit under working load = L/200

t(mm)	Mcap +ve (kNm/m)	Mcap -ve (kNm/m)	Ieff (mm4/m)	Rcap (kNm/m)
0.9	1.95	1.97	16.491	24.01
0.7	1.36	1.35	11.943	15.43

Profile Ref: 38/914 Reverse

Profile Type: Aluminium

Single Span Case - Permissible Working +ve Loads

Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	7.25	5.99	5.04	4.29	3.70	3.22	2.83	2.51	2.24	2.01	1.81	1.64	1.50	1.37	1.26	1.16	1.07
	Inertia	3.16	2.38	1.83	1.44	1.15	0.94	0.77	0.64	0.54	0.46	0.40	0.34	0.30	0.26	0.23	0.20	0.18
	Reaction	20.57	18.70	17.14	15.83	14.70	13.72	12.86	12.10	11.43	10.83	10.29	9.80	9.35	8.94	8.57	8.23	7.91
0.9mm	Limiting	3.16	2.38	1.83	1.44	1.15	0.94	0.77	0.64	0.54	0.46	0.40	0.34	0.30	0.26	0.23	0.20	0.18
	Moment	10.40	8.60	7.22	6.15	5.31	4.62	4.06	3.60	3.21	2.88	2.60	2.36	2.15	1.97	1.81	1.66	1.54
	Inertia	4.37	3.28	2.53	1.99	1.59	1.29	1.07	0.89	0.75	0.64	0.55	0.47	0.41	0.36	0.32	0.28	0.25
	Reaction	32.01	29.10	26.68	24.63	22.87	21.34	20.01	18.83	17.79	16.85	16.01	15.24	14.55	13.92	13.34	12.81	12.31
0.7mm	Limiting	4.37	3.28	2.53	1.99	1.59	1.29	1.07	0.89	0.75	0.64	0.55	0.47	0.41	0.36	0.32	0.28	0.25

Double Span Case - Permissible Working +ve Loads

Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	7.20	5.95	5.00	4.26	3.67	3.20	2.81	2.49	2.22	1.99	1.80	1.63	1.49	1.36	1.25	1.15	1.07
	Inertia	7.62	5.73	4.41	3.47	2.78	2.26	1.86	1.55	1.31	1.11	0.95	0.82	0.72	0.63	0.55	0.49	0.43
	Reaction	12.86	11.69	10.72	9.89	9.18	8.57	8.04	7.56	7.14	6.77	6.43	6.12	5.84	5.59	5.36	5.14	4.95
0.9mm	Interaction	8.47	7.27	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	7.20	5.73	4.41	3.47	2.78	2.26	1.86	1.55	1.31	1.11	0.95	0.82	0.72	0.63	0.55	0.49	0.43
	Moment	10.51	8.68	7.30	6.22	5.36	4.67	4.10	3.64	3.24	2.91	2.63	2.38	2.17	1.99	1.82	1.68	1.55
	Inertia	10.53	7.91	6.09	4.79	3.84	3.12	2.57	2.14	1.80	1.53	1.32	1.14	0.99	0.87	0.76	0.67	0.60
0.9mm	Reaction	20.01	18.19	16.67	15.39	14.29	13.34	12.51	11.77	11.12	10.53	10.00	9.53	9.09	8.70	8.34	8.00	7.70
	Interaction	12.73	10.91	9.46	8.28	7.32	6.51	5.83	5.25	4.76	4.33	3.96	3.63	3.35	3.09	2.87	2.66	2.48
	Limiting	10.51	7.91	6.09	4.79	3.84	3.12	2.57	2.14	1.80	1.53	1.32	1.14	0.99	0.87	0.76	0.67	0.60

Deflection <L/100 Deflection Limit under working load = L/100

t(mm)	Mcap +ve (kNm/m)	Mcap -ve (kNm/m)	Ieff (mm4/m)	Rcap (kNm/m)
0.9	1.95	1.97	16.491	24.01
0.7	1.36	1.35	11.943	15.43

Profile Ref: 38/914 Reverse

Profile Type: Aluminium

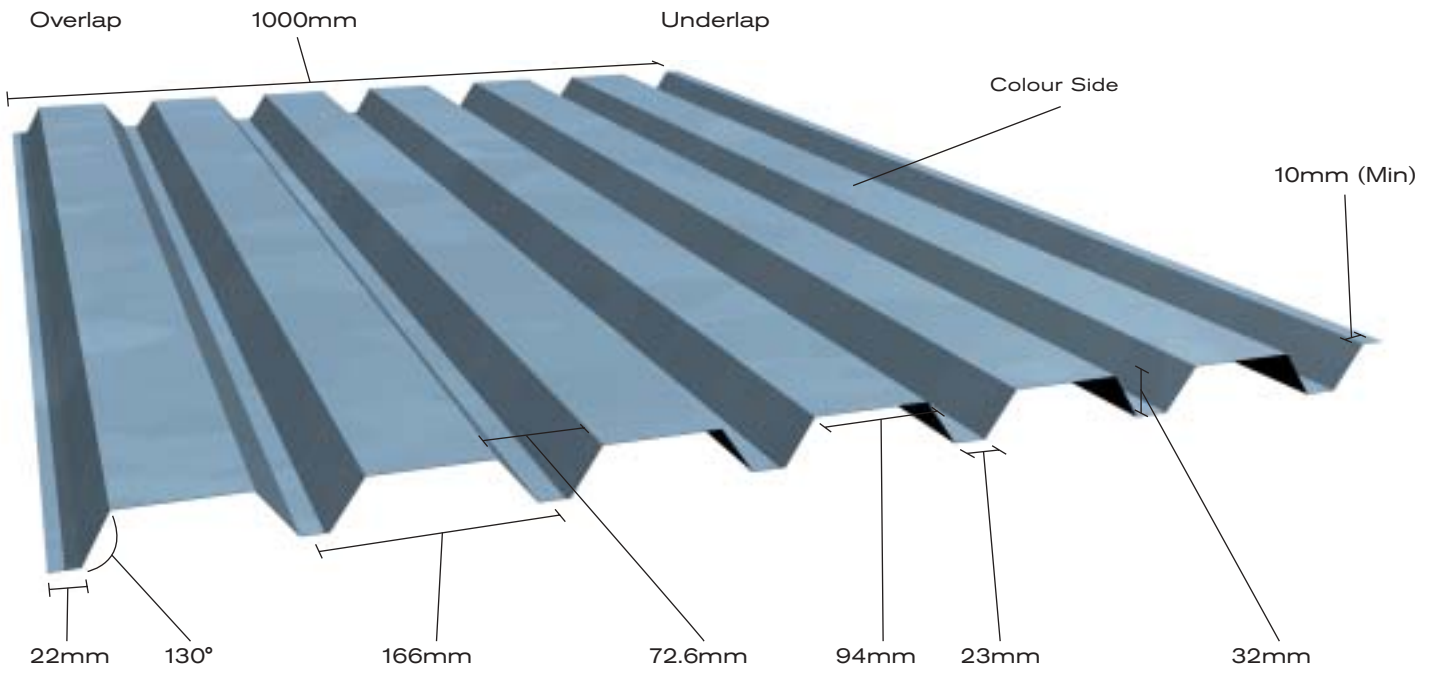
Single Span Case - Permissible Working +ve Loads

Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	7.25	5.99	5.04	4.29	3.70	3.22	2.83	2.51	2.24	2.01	1.81	1.64	1.50	1.37	1.26	1.16	1.07
	Inertia	6.33	4.75	3.66	2.88	2.31	1.88	1.55	1.29	1.09	0.92	0.79	0.68	0.59	0.52	0.46	0.41	0.36
	Reaction	20.57	18.70	17.14	15.83	14.70	13.72	12.86	12.10	11.43	10.83	10.29	9.80	9.35	8.94	8.57	8.23	7.91
0.9mm	Limiting	6.33	4.75	3.66	2.88	2.31	1.88	1.55	1.29	1.09	0.92	0.79	0.68	0.59	0.52	0.46	0.41	0.36
	Moment	10.40	8.60	7.22	6.15	5.31	4.62	4.06	3.60	3.21	2.88	2.60	2.36	2.15	1.97	1.81	1.66	1.54
	Inertia	8.74	6.57	5.06	3.98	3.18	2.59	2.13	1.78	1.50	1.27	1.09	0.94	0.82	0.72	0.63	0.56	0.50
	Reaction	32.01	29.10	26.68	24.63	22.87	21.34	20.01	18.83	17.79	16.85	16.01	15.24	14.55	13.92	13.34	12.81	12.31
0.7mm	Limiting	8.74	6.57	5.06	3.98	3.18	2.59	2.13	1.78	1.50	1.27	1.09	0.94	0.82	0.72	0.63	0.56	0.50

Double Span Case - Permissible Working +ve Loads

Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	7.20	5.95	5.00	4.26	3.67	3.20	2.81	2.49	2.22	1.99	1.80	1.63	1.49	1.36	1.25	1.15	1.07
	Inertia	15.25	11.45	8.82	6.94	5.56	4.52	3.72	3.10	2.61	2.22	1.91	1.65	1.43	1.25	1.10	0.98	0.87
	Reaction	12.86	11.69	10.72	9.89	9.18	8.57	8.04	7.56	7.14	6.77	6.43	6.12	5.84	5.59	5.36	5.14	4.95
0.9mm	Interaction	8.47	7.27	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	7.20	5.95	5.00	4.26	3.67	3.20	2.81	2.49	2.22	1.99	1.80	1.63	1.43	1.25	1.10	0.98	0.87
	Moment	10.51	8.68	7.30	6.22	5.36	4.67	4.10	3.64	3.24	2.91	2.63	2.38	2.17	1.99	1.82	1.68	1.55
	Inertia	21.05	15.82	12.18	9.58	7.67	6.24	5.14	4.28	3.61	3.07	2.63	2.27	1.98	1.73	1.52	1.35	1.20
0.9mm	Reaction	20.01	18.19	16.67	15.39	14.29	13.34	12.51	11.77	11.12	10.53	10.00	9.53	9.09	8.70	8.34	8.00	7.70
	Interaction	12.73	10.91	9.46	8.28	7.32	6.51	5.83	5.25	4.76	4.33	3.96	3.63	3.35	3.09	2.87	2.66	2.48
	Limiting	10.51	8.68	7.30	6.22	5.36	4.67	4.10	3.64	3.24	2.91	2.63	2.27	1.98	1.73	1.52	1.35	1.20

1000/32mm Reverse – Steel



Dimensions details	
Cover Width	1000mm
Profile Pitch	166.6mm
Profile Depth	32mm
Crown Width	23mm
Valley Width	94mm
Rib Width	72.6mm
Web	40mm
Underlap (Right as shown above)	10mm (Minimum)
Overlap (Left as shown above)	22mm

Weight Per Linear Metre	
0.5mm	4.823 kgs
0.7mm	6.753 kgs
0.9mm	8.682 kgs

Deflection <L/150

Deflection Limit under working load = L/150

t(mm)	Mcap +ve (kNm/m)	Mcap -ve (kNm/m)	Ieff (mm4/m)	Rcap (kNm/m)
0.9	2.29	1.82	14.068	41.21
0.7	1.55	1.42	10.1221	26.45
0.5	0.93	0.97	6.513	14.56

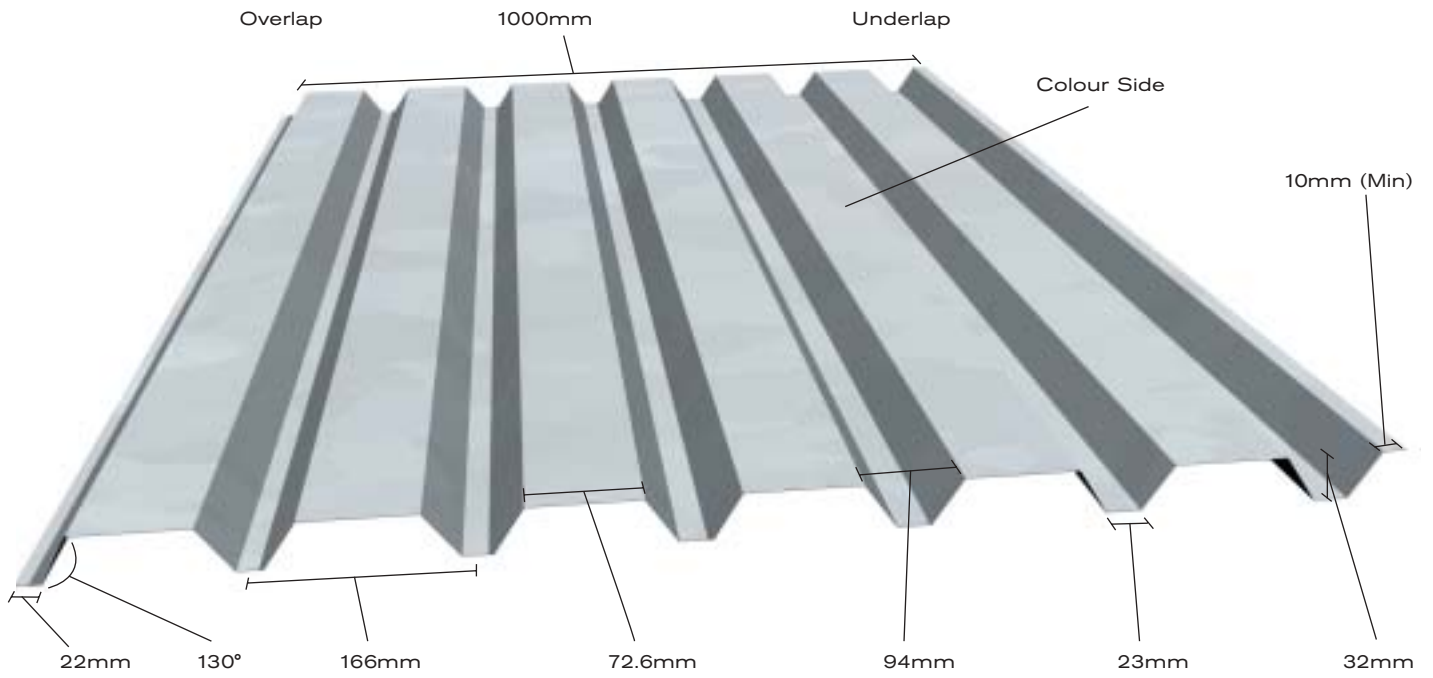
Profile Ref: 32/1000 Reverse

Profile Type: Steel

Single Span Case - Permissible Working +ve Loads																		
Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.5mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	4.96	4.10	3.44	2.93	2.53	2.20	1.94	1.72	1.53	1.37	1.24	1.12	1.02	0.94	0.86	0.79	0.73
	Inertia	6.84	5.14	3.96	3.11	2.49	2.03	1.67	1.39	1.17	1.00	0.85	0.74	0.64	0.56	0.49	0.44	0.39
	Reaction	19.41	17.65	16.18	14.93	13.87	12.94	12.13	11.42	10.79	10.22	9.71	9.24	8.82	8.44	8.09	7.77	7.47
0.7mm	Limiting	4.96	4.10	3.44	2.93	2.49	2.03	1.67	1.39	1.17	1.00	0.85	0.74	0.64	0.56	0.49	0.44	0.39
	Moment	8.27	6.83	5.74	4.89	4.22	3.67	3.23	2.86	2.55	2.29	2.07	1.87	1.71	1.56	1.44	1.32	1.22
	Inertia	10.62	7.98	6.15	4.84	3.87	3.15	2.59	2.16	1.82	1.55	1.33	1.15	1.00	0.87	0.77	0.68	0.60
	Reaction	35.27	32.06	29.39	27.13	25.19	23.51	22.04	20.75	19.59	18.56	17.63	16.79	16.03	15.33	14.69	14.11	13.56
0.9mm	Limiting	8.27	6.83	5.74	4.84	3.87	3.15	2.59	2.16	1.82	1.55	1.33	1.15	1.00	0.87	0.77	0.68	0.60
	Moment	12.21	10.09	8.48	7.23	6.23	5.43	4.77	4.23	3.77	3.38	3.05	2.77	2.52	2.31	2.12	1.95	1.81
	Inertia	14.77	11.09	8.55	6.72	5.38	4.38	3.60	3.01	2.53	2.15	1.85	1.59	1.39	1.21	1.07	0.95	0.84
	Reaction	54.95	49.95	45.79	42.27	39.25	36.63	34.34	32.32	30.53	28.92	27.47	26.17	24.98	23.89	22.89	21.98	21.13
	Limiting	12.21	10.09	8.48	6.72	5.38	4.38	3.60	3.01	2.53	2.15	1.85	1.59	1.39	1.21	1.07	0.95	0.84

Double Span Case - Permissible Working +ve Loads																		
Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.5mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	5.17	4.28	3.59	3.06	2.64	2.30	2.02	1.79	1.60	1.43	1.29	1.17	1.07	0.98	0.90	0.83	0.77
	Inertia	16.47	12.37	9.53	7.50	6.00	4.88	4.02	3.35	2.82	2.40	2.06	1.78	1.55	1.35	1.19	1.05	0.94
	Reaction	12.13	11.03	10.11	9.33	8.67	8.09	7.58	7.14	6.74	6.39	6.07	5.78	5.52	5.28	5.06	4.85	4.67
0.7mm	Interaction	4.75	4.09	3.55	3.12	2.76	2.46	2.21	1.99	1.81	1.65	1.51	1.38	1.28	1.18	1.09	1.02	0.95
	Limiting	4.75	4.09	3.55	3.06	2.64	2.30	2.02	1.79	1.60	1.43	1.29	1.17	1.07	0.98	0.90	0.83	0.77
	Moment	7.57	6.26	5.26	4.48	3.86	3.37	2.96	2.62	2.34	2.10	1.89	1.72	1.56	1.43	1.31	1.21	1.12
	Inertia	25.59	19.23	14.81	11.65	9.33	7.58	6.25	5.21	4.39	3.73	3.20	2.76	2.40	2.10	1.85	1.64	1.46
0.9mm	Reaction	22.04	20.04	18.37	16.96	15.74	14.69	13.78	12.97	12.25	11.60	11.02	10.50	10.02	9.58	9.18	8.82	8.48
	Interaction	8.47	7.27	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	7.57	6.26	5.26	4.48	3.86	3.37	2.96	2.62	2.34	2.10	1.89	1.72	1.56	1.43	1.31	1.21	1.12
	Moment	9.71	8.02	6.74	5.74	4.95	4.31	3.79	3.36	3.00	2.69	2.43	2.20	2.01	1.83	1.69	1.55	1.44
	Inertia	35.57	26.72	20.58	16.19	12.96	10.54	8.68	7.24	6.10	5.19	4.45	3.84	3.34	2.92	2.57	2.28	2.02
	Reaction	34.34	31.22	28.62	26.42	24.53	22.89	21.46	20.20	19.08	18.07	17.17	16.35	15.61	14.93	14.31	13.74	13.21
	Interaction	12.73	10.91	9.46	8.28	7.32	6.51	5.83	5.25	4.76	4.33	3.96	3.63	3.35	3.09	2.87	2.66	2.48
	Limiting	9.71	8.02	6.74	5.74	4.95	4.31	3.79	3.36	3.00	2.69	2.43	2.20	2.01	1.83	1.69	1.55	1.44

1000/32mm Reverse – Aluminium



Dimensions details	
Cover Width	1000mm
Profile Pitch	166.6mm
Profile Depth	32mm
Crown Width	23mm
Valley Width	94mm
Rib Width	72.6mm
Web	40mm
Underlap (Right as shown above)	10mm (Minimum)
Overlap (Left as shown above)	22mm

Weight Per Linear Metre	
0.7mm Mill Finish	2.338 kgs
0.9mm Mill Finish	3.006 kgs
0.7mm One Side Coated	2.368 kgs
0.9mm One Side Coated	3.039 kgs

Deflection <L/200 Deflection Limit under working load = L/200

t(mm)	Mcap +ve (kNm/m)	Mcap -ve (kNm/m)	Ieff (mm4/m)	Rcap (kNm/m)
0.9	1.63	1.7	11.921	23.08
0.7	1.13	1.16	8.596	14.82

Profile Ref: 32/1000 Reverse

Profile Type: Aluminium

Single Span Case - Permissible Working +ve Loads																		
Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	6.03	4.98	4.19	3.57	3.07	2.68	2.35	2.09	1.86	1.67	1.51	1.37	1.25	1.14	1.05	0.96	0.89
	Inertia	2.28	1.71	1.32	1.04	0.83	0.67	0.56	0.46	0.39	0.33	0.28	0.25	0.21	0.19	0.16	0.15	0.13
	Reaction	19.76	17.96	16.47	15.20	14.11	13.17	12.35	11.62	10.98	10.40	9.88	9.41	8.98	8.59	8.23	7.90	7.60
0.9mm	Limiting	2.28	1.71	1.32	1.04	0.83	0.67	0.56	0.46	0.39	0.33	0.28	0.25	0.21	0.19	0.16	0.15	0.13
	Moment	8.69	7.18	6.04	5.14	4.44	3.86	3.40	3.01	2.68	2.41	2.17	1.97	1.80	1.64	1.51	1.39	1.29
	Inertia	3.16	2.37	1.83	1.44	1.15	0.94	0.77	0.64	0.54	0.46	0.39	0.34	0.30	0.26	0.23	0.20	0.18
	Reaction	30.77	27.98	25.64	23.67	21.98	20.52	19.23	18.10	17.10	16.20	15.39	14.65	13.99	13.38	12.82	12.31	11.84
0.7mm	Limiting	3.16	2.37	1.83	1.44	1.15	0.94	0.77	0.64	0.54	0.46	0.39	0.34	0.30	0.26	0.23	0.20	0.18

Double Span Case - Permissible Working +ve Loads																		
Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	6.19	5.11	4.30	3.66	3.16	2.75	2.42	2.14	1.91	1.71	1.55	1.40	1.28	1.17	1.07	0.99	0.92
	Inertia	5.49	4.12	3.17	2.50	2.00	1.63	1.34	1.12	0.94	0.80	0.69	0.59	0.52	0.45	0.40	0.35	0.31
	Reaction	12.35	11.23	10.29	9.50	8.82	8.23	7.72	7.26	6.86	6.50	6.18	5.88	5.61	5.37	5.15	4.94	4.75
0.9mm	Interaction	8.47	7.27	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	5.49	4.12	3.17	2.50	2.00	1.63	1.34	1.12	0.94	0.80	0.69	0.59	0.52	0.45	0.40	0.35	0.31
	Moment	9.07	7.49	6.30	5.36	4.63	4.03	3.54	3.14	2.80	2.51	2.27	2.06	1.87	1.71	1.57	1.45	1.34
	Inertia	7.61	5.72	4.40	3.46	2.77	2.25	1.86	1.55	1.30	1.11	0.95	0.82	0.71	0.63	0.55	0.49	0.43
0.7mm	Reaction	19.23	17.48	16.03	14.79	13.74	12.82	12.02	11.31	10.69	10.12	9.62	9.16	8.74	8.36	8.01	7.69	7.40
	Interaction	12.73	10.91	9.46	8.28	7.32	6.51	5.83	5.25	4.76	4.33	3.96	3.63	3.35	3.09	2.87	2.66	2.48
	Limiting	7.61	5.72	4.40	3.46	2.77	2.25	1.86	1.55	1.30	1.11	0.95	0.82	0.71	0.63	0.55	0.49	0.43

Deflection <L/100 Deflection Limit under working load = L/100

t(mm)	Mcap +ve (kNm/m)	Mcap -ve (kNm/m)	Ieff (mm4/m)	Rcap (kNm/m)
0.9	1.63	1.7	11.921	23.08
0.7	1.13	1.16	8.596	14.82

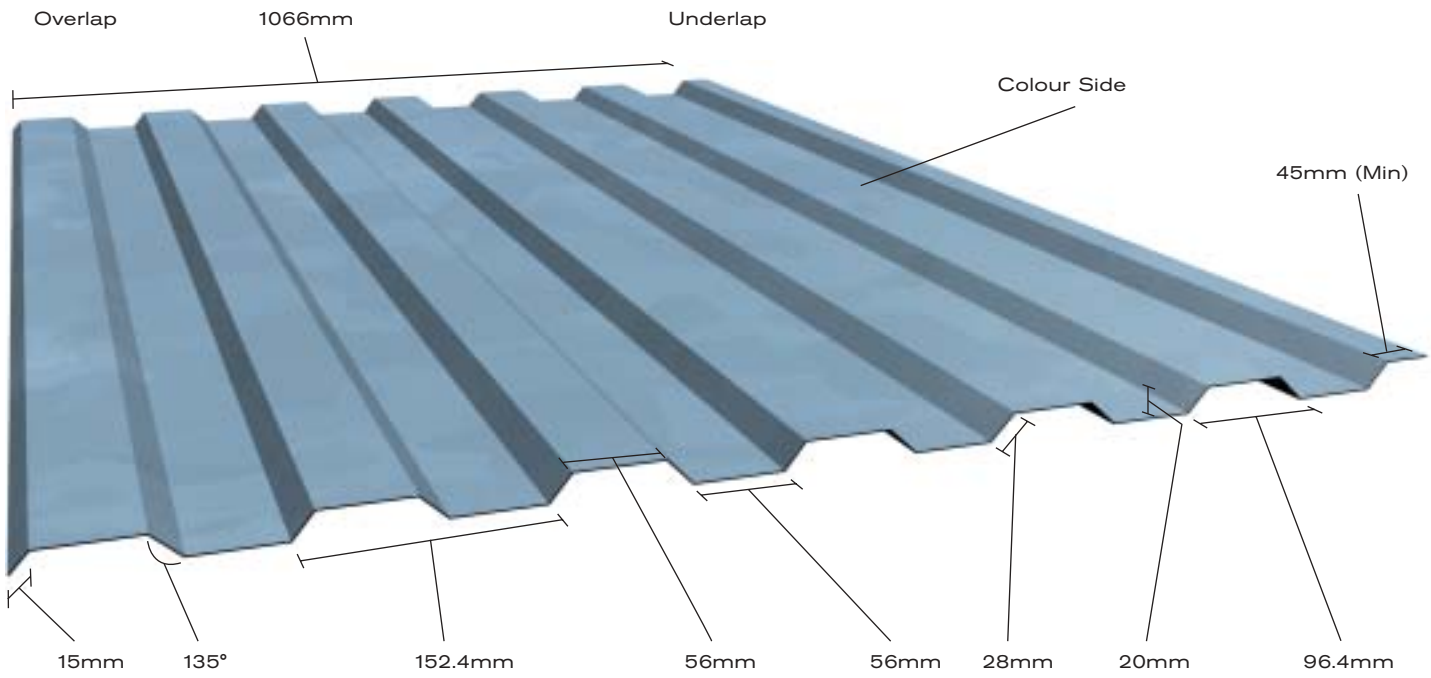
Profile Ref: 32/1000 Reverse

Profile Type: Aluminium

Single Span Case - Permissible Working +ve Loads																		
Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	6.03	4.98	4.19	3.57	3.07	2.68	2.35	2.09	1.86	1.67	1.51	1.37	1.25	1.14	1.05	0.96	0.89
	Inertia	4.56	3.42	2.64	2.07	1.66	1.35	1.11	0.93	0.78	0.66	0.57	0.49	0.43	0.37	0.33	0.29	0.26
	Reaction	19.76	17.96	16.47	15.20	14.11	13.17	12.35	11.62	10.98	10.40	9.88	9.41	8.98	8.59	8.23	7.90	7.60
0.9mm	Limiting	4.56	3.42	2.64	2.07	1.66	1.35	1.11	0.93	0.78	0.66	0.57	0.49	0.43	0.37	0.33	0.29	0.26
	Moment	8.69	7.18	6.04	5.14	4.44	3.86	3.40	3.01	2.68	2.41	2.17	1.97	1.80	1.64	1.51	1.39	1.29
	Inertia	6.32	4.75	3.66	2.88	2.30	1.87	1.54	1.29	1.08	0.92	0.79	0.68	0.59	0.52	0.46	0.40	0.36
	Reaction	30.77	27.98	25.64	23.67	21.98	20.52	19.23	18.10	17.10	16.20	15.39	14.65	13.99	13.38	12.82	12.31	11.84
0.7mm	Limiting	6.32	4.75	3.66	2.88	2.30	1.87	1.54	1.29	1.08	0.92	0.79	0.68	0.59	0.52	0.46	0.40	0.36

Double Span Case - Permissible Working +ve Loads																		
Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	6.19	5.11	4.30	3.66	3.16	2.75	2.42	2.14	1.91	1.71	1.55	1.40	1.28	1.17	1.07	0.99	0.92
	Inertia	10.97	8.24	6.35	4.99	4.00	3.25	2.68	2.23	1.88	1.60	1.37	1.18	1.03	0.90	0.79	0.70	0.62
	Reaction	12.35	11.23	10.29	9.50	8.82	8.23	7.72	7.26	6.86	6.50	6.18	5.88	5.61	5.37	5.15	4.94	4.75
0.9mm	Interaction	8.47	7.27	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	6.19	5.11	4.30	3.66	3.16	2.75	2.42	2.14	1.88	1.60	1.37	1.18	1.03	0.90	0.79	0.70	0.62
	Moment	9.07	7.49	6.30	5.36	4.63	4.03	3.54	3.14	2.80	2.51	2.27	2.06	1.87	1.71	1.57	1.45	1.34
	Inertia	15.22	11.43	8.81	6.93	5.55	4.51	3.72	3.10	2.61	2.22	1.90	1.64	1.43	1.25	1.10	0.97	0.87
0.7mm	Reaction	19.23	17.48	16.03	14.79	13.74	12.82	12.02	11.31	10.69	10.12	9.62	9.16	8.74	8.36	8.01	7.69	7.40
	Interaction	12.73	10.91	9.46	8.28	7.32	6.51	5.83	5.25	4.76	4.33	3.96	3.63	3.35	3.09	2.87	2.66	2.48
	Limiting	9.07	7.49	6.30	5.36	4.63	4.03	3.54	3.10	2.61	2.22	1.90	1.64	1.43	1.25	1.10	0.97	0.87

1066/20mm Forward – Steel



Dimensions details	
Cover Width	1066mm
Profile Pitch	152.4mm
Profile Depth	20mm
Crown Width	56mm
Valley Width	56mm
Rib Width	96.4mm
Web	28mm
Underlap (Right as shown above)	45mm (Minimum)
Overlap (Left as shown above)	15mm

Weight Per Linear Metre	
0.5mm	4.823 kgs
0.7mm	6.753 kgs

Deflection $\lt;L/150$

Deflection Limit under working load = $L/150$

t(mm)	Mcap +ve (kNm/m)	Mcap -ve (kNm/m)	leff (mm4/m)	Rcap (kNm/m)
0.7	0.94	0.94	4.879	23.23
0.5	0.56	0.56	3.097	12.71

Profile Ref: 20/1066 Forward

Profile Type: Steel

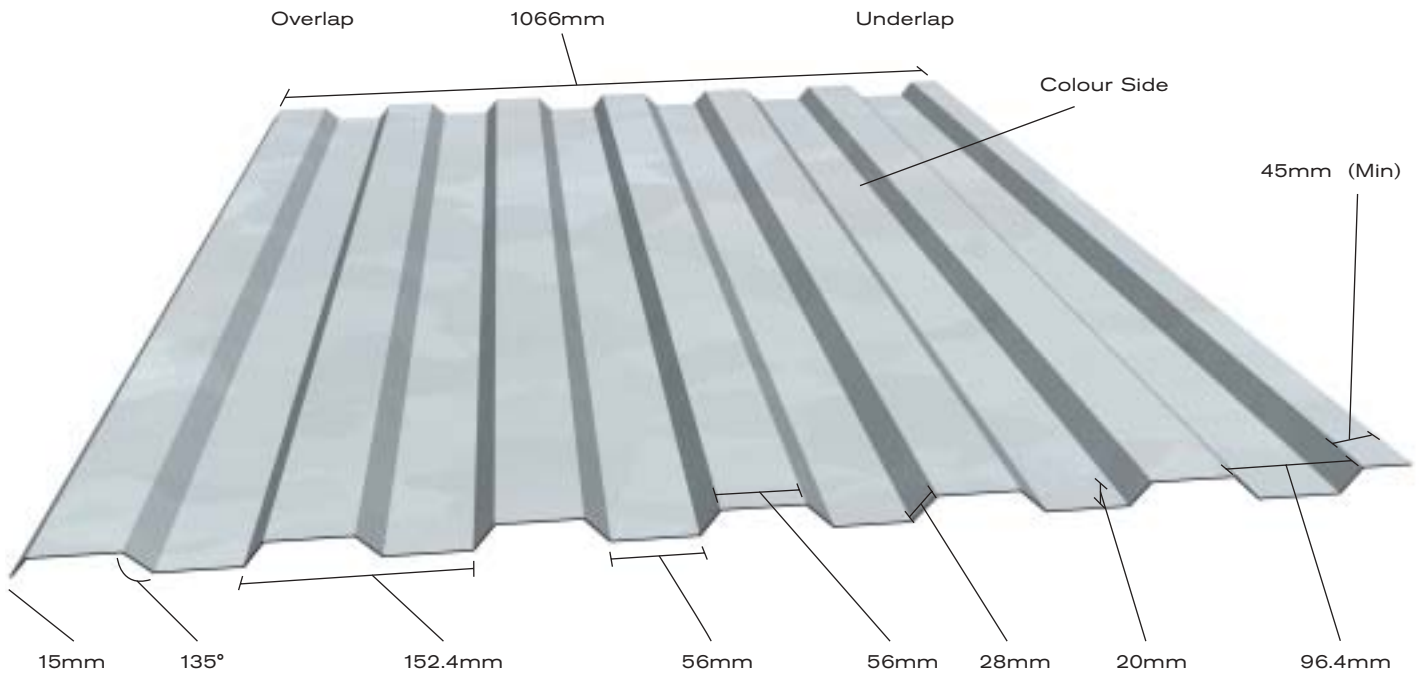
Single Span Case - Permissible Working +ve Loads

Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.5mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	2.99	2.47	2.07	1.77	1.52	1.33	1.17	1.03	0.92	0.83	0.75	0.68	0.62	0.56	0.52	0.48	0.44
	Inertia	3.25	2.44	1.88	1.48	1.18	0.96	0.79	0.66	0.56	0.47	0.41	0.35	0.31	0.27	0.24	0.21	0.18
	Reaction	16.95	15.41	14.12	13.04	12.10	11.30	10.59	9.97	9.41	8.92	8.47	8.07	7.70	7.37	7.06	6.78	6.52
0.7mm	Limiting	2.99	2.44	1.88	1.48	1.18	0.96	0.79	0.66	0.56	0.47	0.41	0.35	0.31	0.27	0.24	0.21	0.18
	Moment	5.01	4.14	3.48	2.97	2.56	2.23	1.96	1.73	1.55	1.39	1.25	1.14	1.04	0.95	0.87	0.80	0.74
	Inertia	5.12	3.85	2.96	2.33	1.87	1.52	1.25	1.04	0.88	0.75	0.64	0.55	0.48	0.42	0.37	0.33	0.29
	Reaction	30.97	28.16	25.81	23.83	22.12	20.65	19.36	18.22	17.21	16.30	15.49	14.75	14.08	13.47	12.91	12.39	11.91
	Limiting	5.01	3.85	2.96	2.33	1.87	1.52	1.25	1.04	0.88	0.75	0.64	0.55	0.48	0.42	0.37	0.33	0.29

Double Span Case - Permissible Working +ve Loads

Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.5mm	Case	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
	Moment	2.99	2.47	2.07	1.77	1.52	1.33	1.17	1.03	0.92	0.83	0.75	0.68	0.62	0.56	0.52	0.48	0.44
	Inertia	7.83	5.88	4.53	3.56	2.85	2.32	1.91	1.59	1.34	1.14	0.98	0.85	0.74	0.64	0.57	0.50	0.45
	Reaction	10.59	9.63	8.83	8.15	7.57	7.06	6.62	6.23	5.88	5.57	5.30	5.04	4.81	4.61	4.41	4.24	4.07
0.7mm	Interaction	4.75	4.09	3.55	3.12	2.76	2.46	2.21	1.99	1.81	1.65	1.51	1.38	1.28	1.18	1.09	1.02	0.95
	Limiting	2.99	2.47	2.07	1.77	1.52	1.33	1.17	1.03	0.92	0.83	0.75	0.68	0.62	0.56	0.52	0.48	0.44
	Moment	5.01	4.14	3.48	2.97	2.56	2.23	1.96	1.73	1.55	1.39	1.25	1.14	1.04	0.95	0.87	0.80	0.74
	Inertia	12.34	9.27	7.14	5.61	4.50	3.66	3.01	2.51	2.12	1.80	1.54	1.33	1.16	1.01	0.89	0.79	0.70
	Reaction	19.36	17.60	16.13	14.89	13.83	12.91	12.10	11.39	10.75	10.19	9.68	9.22	8.80	8.42	8.07	7.74	7.45
	Interaction	8.47	7.27	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	5.01	4.14	3.48	2.97	2.56	2.23	1.96	1.73	1.55	1.39	1.25	1.14	1.04	0.95	0.87	0.79	0.70

1066/20mm Forward – Aluminium



Dimensions details	
Cover Width	1066mm
Profile Pitch	152.4mm
Profile Depth	20mm
Crown Width	56mm
Valley Width	56mm
Rib Width	96.4mm
Web	28mm
Underlap (Right as shown above)	45mm (Minimum)
Overlap (Left as shown above)	15mm

Weight Per Linear Metre	
0.7mm Mill Finish	2.338 kgs
0.7mm One Sided Coated	2.363 kgs

Deflection <L/200

Deflection Limit under working load = L/200

t(mm)	Mcap +ve (kNm/m)	Mcap -ve (kN/m)	Ieff (mm ⁴ /m)	Rcap (kNm/m)
0.7	0.68	0.68	4.046	13.01

Profile Ref: 20/1066 Forward
Profile Type: Aluminium

Single Span Case - Permissible Working +ve Loads

Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case																	
	Moment	3.63	3.00	2.52	2.15	1.85	1.61	1.42	1.25	1.12	1.00	0.91	0.82	0.75	0.69	0.63	0.58	0.54
	Inertia	3.19	2.39	1.84	1.45	1.16	0.94	0.78	0.65	0.55	0.46	0.40	0.34	0.30	0.26	0.23	0.20	0.18
	Reaction	17.35	15.77	14.46	13.34	12.39	11.56	10.84	10.20	9.64	9.13	8.67	8.26	7.88	7.54	7.23	6.94	6.67
	Limiting	3.19	2.39	1.84	1.45	1.16	0.94	0.78	0.65	0.55	0.46	0.40	0.34	0.30	0.26	0.23	0.20	0.18

Double Span Case - Permissible Working +ve Loads

Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case																	
	Moment	3.63	3.00	2.52	2.15	1.85	1.61	1.42	1.25	1.12	1.00	0.91	0.82	0.75	0.69	0.63	0.58	0.54
	Inertia	7.67	5.76	4.44	3.49	2.80	2.27	1.87	1.56	1.32	1.12	0.96	0.83	0.72	0.63	0.55	0.49	0.44
	Reaction	10.84	9.86	9.03	8.34	7.74	7.23	6.78	6.38	6.02	5.71	5.42	5.16	4.93	4.71	4.52	4.34	4.17
	Interaction	8.47	7.27	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	3.63	3.00	2.52	2.15	1.85	1.61	1.42	1.25	1.12	1.00	0.91	0.82	0.72	0.63	0.55	0.49	0.44

Deflection <L/100

Deflection Limit under working load = L/100

t(mm)	Mcap +ve (kNm/m)	Mcap -ve (kN/m)	Ieff (mm ⁴ /m)	Rcap (kNm/m)
0.7	0.68	0.68	4.046	13.01

Profile Ref: 20/1066 Forward
Profile Type: Aluminium

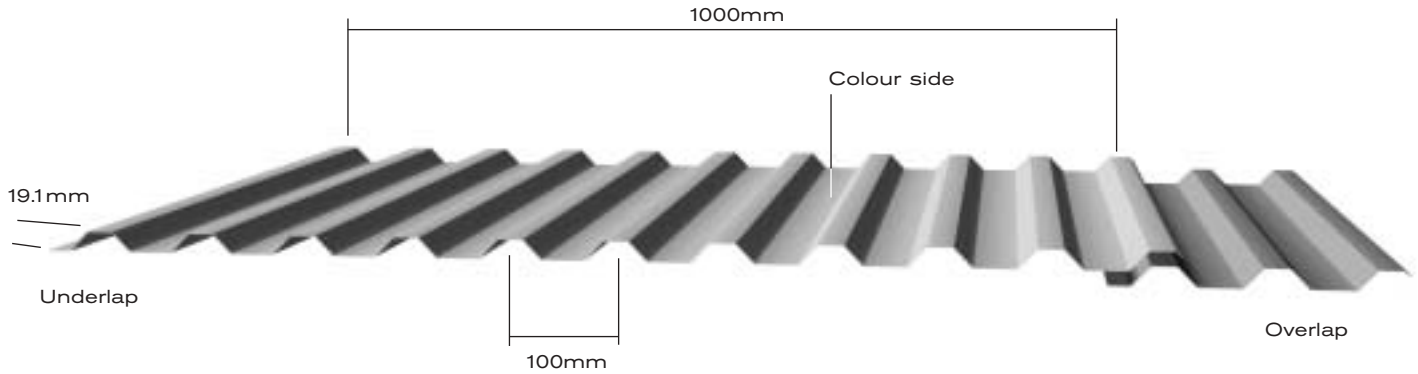
Single Span Case - Permissible Working +ve Loads

Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case																	
	Moment	3.63	3.00	2.52	2.15	1.85	1.61	1.42	1.25	1.12	1.00	0.91	0.82	0.75	0.69	0.63	0.58	0.54
	Inertia	6.37	4.79	3.69	2.90	2.32	1.89	1.56	1.30	1.09	0.93	0.80	0.69	0.60	0.52	0.46	0.41	0.36
	Reaction	17.35	15.77	14.46	13.34	12.39	11.56	10.84	10.20	9.64	9.13	8.67	8.26	7.88	7.54	7.23	6.94	6.67
	Limiting	3.63	3.00	2.52	2.15	1.85	1.61	1.42	1.25	1.09	0.93	0.80	0.69	0.60	0.52	0.46	0.41	0.36

Double Span Case - Permissible Working +ve Loads

Thickness	Design	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.7mm	Case																	
	Moment	3.63	3.00	2.52	2.15	1.85	1.61	1.42	1.25	1.12	1.00	0.91	0.82	0.75	0.69	0.63	0.58	0.54
	Inertia	15.34	11.53	8.88	6.98	5.59	4.55	3.75	3.12	2.63	2.24	1.92	1.66	1.44	1.26	1.11	0.98	0.87
	Reaction	10.84	9.86	9.03	8.34	7.74	7.23	6.78	6.38	6.02	5.71	5.42	5.16	4.93	4.71	4.52	4.34	4.17
	Interaction	8.47	7.27	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	3.63	3.00	2.52	2.15	1.85	1.61	1.42	1.25	1.12	1.00	0.91	0.82	0.75	0.69	0.63	0.58	0.54

MM10 – Steel



Span (metres)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
0.5mm single span	3.45	2.77	2.13	1.68	1.34	1.09	0.90	0.75	0.63	0.54	0.46	0.40	0.35	0.30	0.27	0.24	0.21	0.19	0.17	0.15	0.14
0.5mm double span	3.45	2.85	2.39	2.04	1.76	1.53	1.35	1.19	1.05	0.90	0.77	0.66	0.58	0.51	0.44	0.39	0.35	0.31	0.28	0.25	0.23
0.5mm multi span	4.31	3.56	2.99	2.55	2.20	1.82	1.50	1.25	1.05	0.90	0.77	0.66	0.58	0.51	0.44	0.39	0.35	0.31	0.28	0.25	0.23

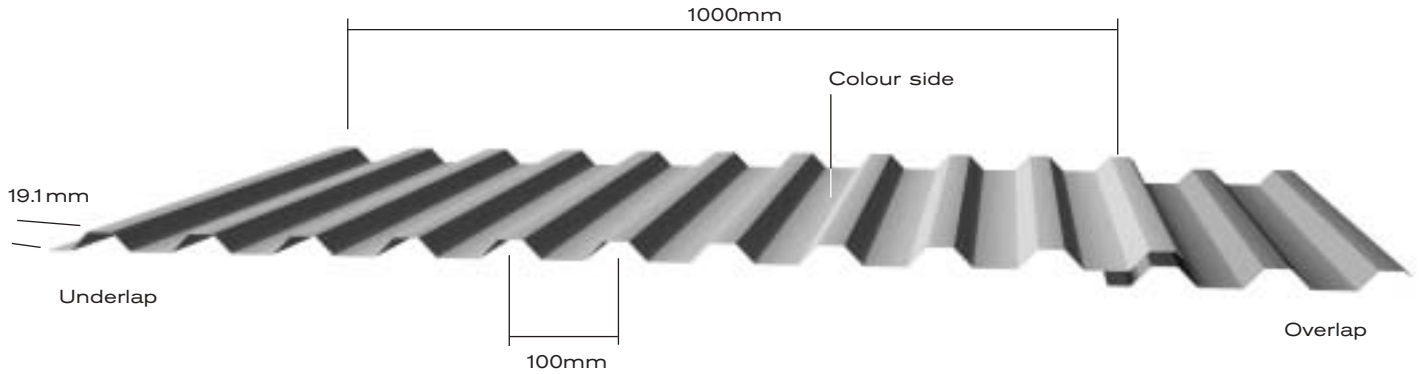
Span (metres)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
0.7mm single span	5.23	4.12	3.17	2.50	2.00	1.62	1.34	1.12	0.94	0.80	0.69	0.59	0.51	0.45	0.40	0.35	0.31	0.28	0.25	0.22	0.20
0.7mm double span	5.23	4.33	3.63	3.10	2.67	2.33	2.04	1.81	1.57	1.33	1.14	0.99	0.86	0.75	0.66	0.58	0.52	0.46	0.42	0.37	0.34
0.7mm multi span	6.54	5.41	4.54	3.87	3.33	2.71	2.23	1.86	1.57	1.33	1.14	0.99	0.86	0.75	0.66	0.58	0.52	0.46	0.42	0.37	0.34

Deflection criteria	L/150	Sheet width	1220/1230mm (-0/+5)
Permissible safe stress	143.00 N/mm ²	Sheet thickness	0.5 to 0.7mm
Method	Safe stress limit theory		
Source	Euroclad/Smart Associates		

Loadings for wind can be increased by 25% (in grey shaded area) where bending is the limit and where plus 25% does not exceed the deflection limit – B.S.449.

The figures shown above are for the unfactored safe stress limits (bending or deflection) in KN/m² for positive and negative loads.

MM10 – Aluminium



Span (metres)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
0.7mm single span	2.69	2.02	1.56	1.22	0.98	0.80	0.66	0.55	0.46	0.39	0.34	0.29	0.25	0.22	0.19	0.17	0.15	0.14	0.12	0.11	0.10
0.7mm double span	2.82	2.33	1.96	1.67	1.44	1.25	1.09	0.91	0.77	0.65	0.65	0.48	0.42	0.37	0.32	0.29	0.25	0.23	0.20	0.18	0.17
0.7mm multi span	3.52	2.91	2.45	2.04	1.63	1.33	1.09	0.91	0.77	0.65	0.56	0.48	0.42	0.37	0.32	0.29	0.25	0.23	0.20	0.18	0.17

Span (metres)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
0.9mm single span	3.58	2.69	2.07	1.63	1.31	1.06	0.88	0.73	0.61	0.52	0.45	0.39	0.34	0.29	0.26	0.23	0.20	0.18	0.16	0.15	0.13
0.9mm double span	3.19	2.64	2.22	1.89	1.63	1.42	1.25	1.11	0.99	0.87	0.75	0.65	0.56	0.49	0.43	0.38	0.34	0.30	0.27	0.24	0.22
0.9mm multi span	3.99	3.30	2.77	2.36	2.04	1.77	1.46	1.22	1.02	0.87	0.75	0.65	0.56	0.49	0.43	0.38	0.34	0.30	0.27	0.24	0.22

Deflection criteria	L/100
Permissible safe stress	75.00 N/mm ²
Method	Safe stress limit theory
Source	Euroclad/Smart Associates

Sheet width	1220/1230mm (-0/+5)
Sheet thickness	0.5 to 0.7mm

Span (metres)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
0.7mm single span	1.34	1.10	0.78	0.61	0.49	0.40	0.33	0.27	0.23	0.20	0.17	0.15	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.06	0.05
0.7mm double span	2.24	1.68	1.30	1.02	0.82	0.66	0.55	0.46	0.38	0.33	0.28	0.24	0.21	0.18	0.16	0.14	0.13	0.11	0.10	0.09	0.08
0.7mm multi span	2.24	1.68	1.30	1.02	0.82	0.66	0.55	0.46	0.38	0.33	0.28	0.24	0.21	0.18	0.16	0.14	0.13	0.11	0.10	0.09	0.08

Span (metres)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
0.9mm single span	1.79	1.35	1.04	0.82	0.65	0.53	0.44	0.36	0.31	0.26	0.22	0.19	0.17	0.15	0.13	0.11	0.10	0.09	0.08	0.07	0.07
0.9mm double span	2.99	2.24	1.73	1.36	1.09	0.89	0.73	0.61	0.51	0.44	0.37	0.32	0.28	0.25	0.22	0.19	0.17	0.15	0.14	0.12	0.11
0.9mm multi span	2.99	2.24	1.73	1.36	1.09	0.89	0.73	0.61	0.51	0.44	0.37	0.32	0.28	0.25	0.22	0.19	0.17	0.15	0.14	0.12	0.11

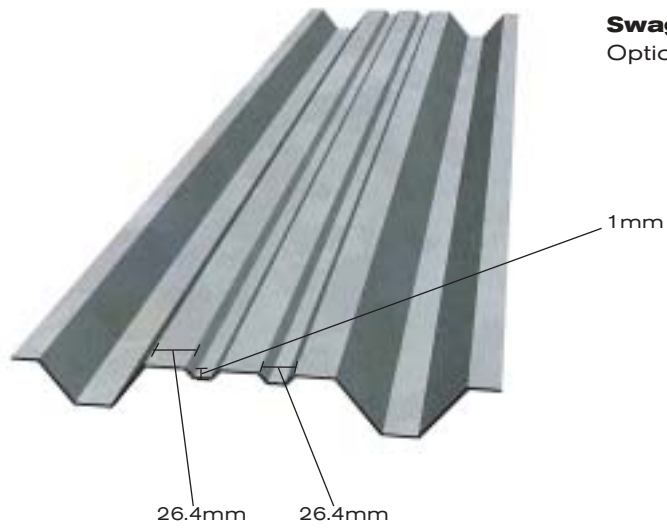
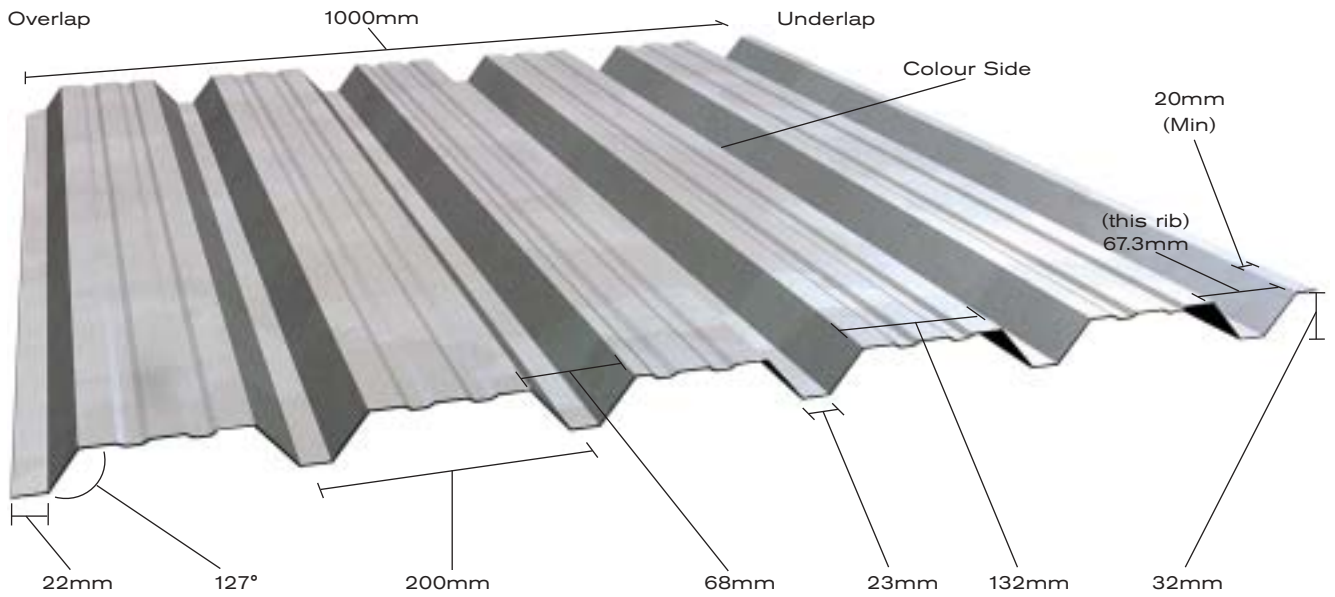
Deflection criteria	L/200
Permissible safe stress	75.00 N/mm ²
Method	Safe stress limit theory
Source	Euroclad/Smart Associates

Sheet width	1220/1230mm (-0/+5)
Sheet thickness	0.5 to 0.7mm

Loadings for wind can be increased by 25% (in grey shaded area) where bending is the limit and where plus 25% does not exceed the deflection limit – B.S.449.

The figures shown above are for the unfactored safe stress limits (bending or deflection) in KN/m² for positive and negative loads.

MW5CS – Steel



Swages
Optional in 0.9

Dimension details	
Cover Width	1,000 mm
Profile Pitch	200 mm
Profile Depth	32 mm
Crown Width	23 mm
Valley Width	132 mm
Rib Width	68 mm
Web	39 mm
Overlap (left as shown above)	22 mm
Underlap (right as shown above)	20 mm (minimum)

Weight per linear metre	
0.5 mm	4.823 kgs
0.7 mm	6.753 kgs
0.9 mm	8.682 kgs

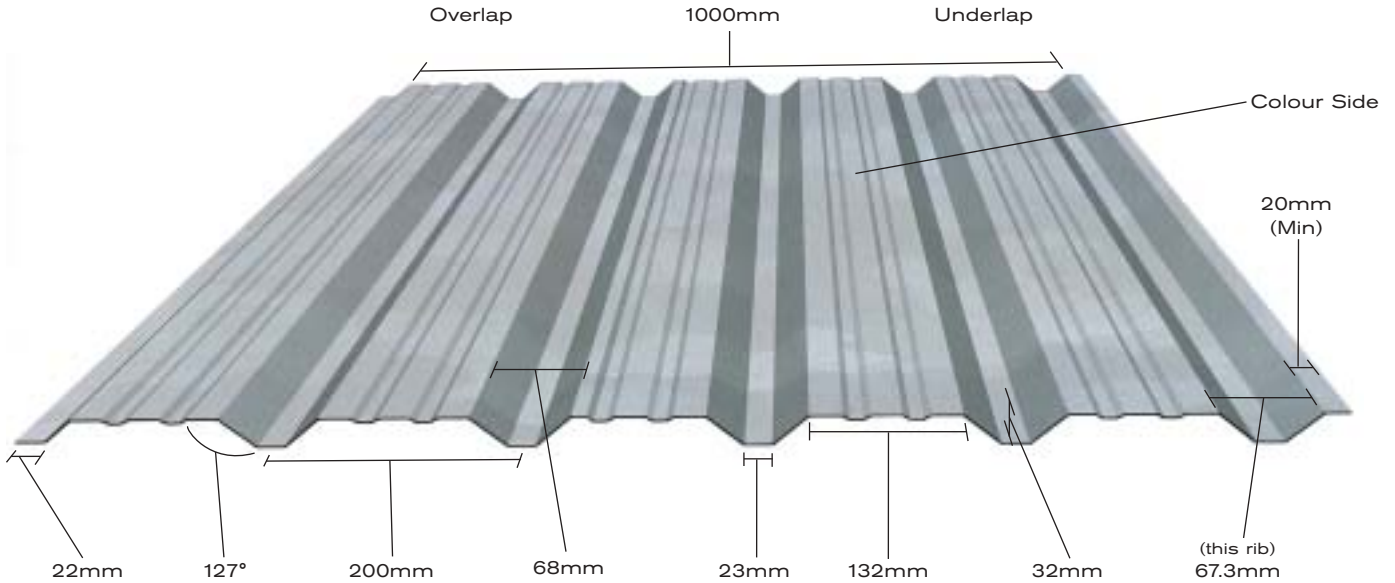
Deflection $\lt;L/150$

t (mm)	Mcap +ve (kNm/m)	Mcap -ve (kNm/m)	I _{left} (mm ⁴ /m)	Rcap (kN/m)
0.9	2.15	2.79	23.18	45.79
0.7	1.68	1.87	18.03	29.37
0.5	1.15	1.1	12.45	16.15

Single Span Case – Permissible working +ve Loads																		
Thickness	Design Case	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.5 mm	Moment	6.13	5.07	4.26	3.63	3.13	2.73	2.40	2.12	1.89	1.70	1.53	1.39	1.27	1.16	1.06	0.98	0.91
	Inertia	13.07	9.82	7.56	5.95	4.76	3.87	3.19	2.66	2.24	1.91	1.63	1.41	1.23	1.07	0.95	0.84	0.74
	Reaction	21.53	19.58	17.94	16.56	15.38	14.36	13.46	12.67	11.96	11.33	10.77	10.25	9.79	9.36	8.97	8.61	8.28
	Limiting	6.13	5.07	4.26	3.63	3.13	2.73	2.40	2.12	1.89	1.70	1.53	1.39	1.23	1.07	0.95	0.84	0.74
0.7 mm	Moment	8.96	7.40	6.22	5.30	4.57	3.98	3.50	3.10	2.77	2.48	2.24	2.03	1.85	1.69	1.56	1.43	1.33
	Inertia	18.92	14.22	10.95	8.61	6.90	5.61	4.62	3.85	3.24	2.76	2.37	2.04	1.78	1.56	1.37	1.21	1.08
	Reaction	39.16	35.60	32.63	30.12	27.97	26.11	24.48	23.04	21.76	20.61	19.58	18.65	17.80	17.03	16.32	15.66	15.06
	Limiting	8.96	7.40	6.22	5.30	4.57	3.98	3.50	3.10	2.77	2.48	2.24	2.03	1.78	1.56	1.37	1.21	1.08
0.9 mm	Moment	11.47	9.48	7.96	6.79	5.85	5.10	4.48	3.97	3.54	3.18	2.87	2.60	2.37	2.17	1.99	1.83	1.70
	Inertia	24.33	18.28	14.08	11.07	8.87	7.21	5.95	4.95	4.17	3.55	3.04	2.63	2.28	2.00	1.76	1.56	1.38
	Reaction	61.05	55.50	50.88	46.96	43.61	40.70	38.16	35.91	33.92	32.13	30.53	29.07	27.75	26.54	25.44	24.42	23.48
	Limiting	11.47	9.48	7.96	6.79	5.85	5.10	4.48	3.97	3.54	3.18	2.87	2.60	2.28	2.00	1.76	1.56	1.38

Double Span Case – Permissible working +ve Loads																		
Thickness	Design Case	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.5 mm	Moment	5.87	4.85	4.07	3.47	2.99	2.61	2.29	2.03	1.81	1.63	1.47	1.33	1.21	1.11	1.02	0.94	0.87
	Inertia	31.48	23.65	18.22	14.33	11.47	9.33	7.68	6.41	5.40	4.59	3.93	3.40	2.96	2.59	2.28	2.01	1.79
	Reaction	13.46	12.33	11.22	10.35	9.61	8.97	8.41	7.92	7.48	7.08	6.73	6.41	6.12	5.85	5.61	5.38	5.18
	Interaction	4.75	4.09	3.55	3.12	2.76	2.46	2.21	1.99	1.81	1.65	1.51	1.38	1.28	1.18	1.09	1.02	0.95
	Limiting	4.75	4.09	3.55	3.12	2.76	2.46	2.21	1.99	1.81	1.63	1.47	1.33	1.21	1.11	1.02	0.94	0.87
0.7 mm	Moment	9.97	8.24	6.93	5.90	5.09	4.43	3.90	3.45	3.08	2.76	2.49	2.26	2.06	1.89	1.73	1.60	1.48
	Inertia	45.59	34.25	26.38	20.75	16.61	13.51	11.13	9.28	7.82	6.65	5.70	4.92	4.28	3.75	3/30	2/92	2.59
	Reaction	24.48	22.25	20.40	18.83	17.48	16.3	15.30	14.40	13.60	12.88	12.24	11.65	11.13	10.64	10.20	9.79	9.41
	Interaction	8.47	7.27	6.31	5.53	4.89	4.36	3.91	3.52	3.19	2.91	2.66	2.44	2.25	2.08	1.93	1.79	1.67
	Limiting	8.47	7.27	6.31	5.53	4.89	4.36	3.90	3.45	3.08	2.76	2.49	2.26	2.06	1.89	1.73	1.60	1.48
0.9 mm	Moment	14.88	12.30	10.33	8.80	7.59	6.61	5.81	5.15	4.59	4.12	3.72	3.37	3.07	2.81	2.58	2.38	2.20
	Inertia	58.61	44.03	33.92	26.68	21.36	17.36	14.31	11.93	10.05	8.54	7.33	6.33	5.50	4.82	4.24	3.75	3.33
	Reaction	38.16	34.69	31.80	29.35	27.26	25.44	23.85	22.45	21.20	20.08	19.08	18.17	17.34	16.59	15.90	15.26	14.68
	Interaction	12.73	10.91	9.46	8.28	7.32	6.51	5.83	5.25	4.76	4.33	3.96	3.63	3.35	3.09	2.87	2.66	2.48
Limiting	12.73	10.91	9.46	8.28	7.32	6.51	5.81	5.15	4.59	4.12	3.72	3.37	3.07	2.81	2.58	2.38	2.20	

MW5CS – Aluminium



Deflection <math><L/150</math>

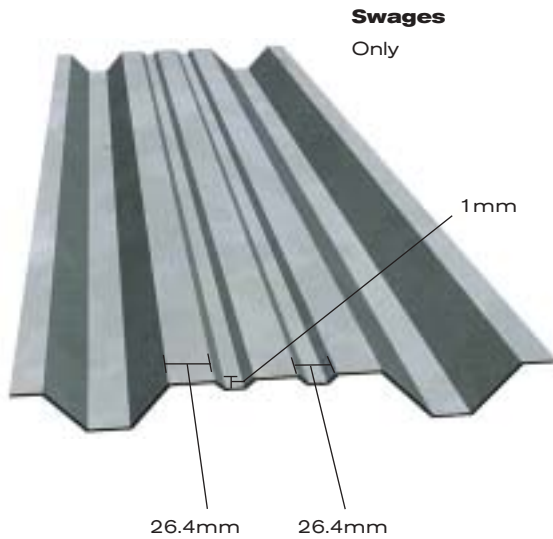
t (mm)	Mcap +ve (kNm/m)	Mcap -ve (kNm/m)	left (mm4/m)	Rcap (kN/m)
0.9	1.23	1.25	9.073	17.01
0.7	0.84	0.85	6.509	10.91

Single Span Case – Permissible working +ve Loads

Thickness	Design Case	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.9 mm	Moment	6.56	5.42	4.56	3.88	3.35	2.92	2.56	2.27	2.02	1.82	1.64	1.49	1.36	1.24	1.14	1.05	0.97
	Inertia	7.14	5.37	4.13	3.25	2.60	2.12	1.74	1.45	1.22	1.04	0.89	0.77	0.67	0.59	0.52	0.46	0.41
	Reaction	22.68	20.62	18.90	17.45	16.20	15.12	14.18	13.34	12.60	11.94	11.34	10.80	10.31	9.86	9.45	9.07	8.72
	Limiting	6.56	5.37	4.13	3.25	2.60	2.12	1.74	1.45	1.22	1.04	0.89	0.77	0.67	0.59	0.52	0.46	0.41

Double Span Case – Permissible working +ve Loads

Thickness	Design Case	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.9 mm	Moment	6.67	5.51	4.63	3.94	3.40	2.96	2.60	2.31	2.06	1.85	1.67	1.51	1.38	1.26	1.16	1.07	0.99
	Inertia	17.20	12.93	9.96	7.83	6.27	5.10	4.20	3.50	2.95	2.51	2.15	1.86	1.62	1.41	1.24	1.10	0.98
	Reaction	14.18	12.89	11.81	10.90	10.13	9.45	8.86	8.34	7.88	7.46	7.09	6.75	6.44	6.16	5.91	5.97	5.45
	Interaction	12.73	10.91	9.46	8.28	7.32	6.51	5.83	5.25	4.76	4.33	3.96	3.63	3.35	3.09	2.87	2.66	2.48
	Limiting	6.67	5.51	4.63	3.94	3.40	2.96	2.60	2.31	2.06	1.85	1.67	1.51	1.38	1.26	1.16	1.07	0.98



Dimension details	
Cover Width	1,000 mm
Profile Pitch	200 mm
Profile Depth	32 mm
Crown Width	23 mm
Valley Width	132 mm
Rib Width	68 mm
Web	39 mm
Overlap (left as shown above)	22 mm
Underlap (right as shown above)	20 mm (minimum)
Weight per linear metre	
0.7 mm Mill Finish	2.338 kgs
0.9 mm Mill Finish	3.006 kgs
0.7 mm One Side Coated	2.363 kgs
0.9 mm One Side Coated	3.039 kgs

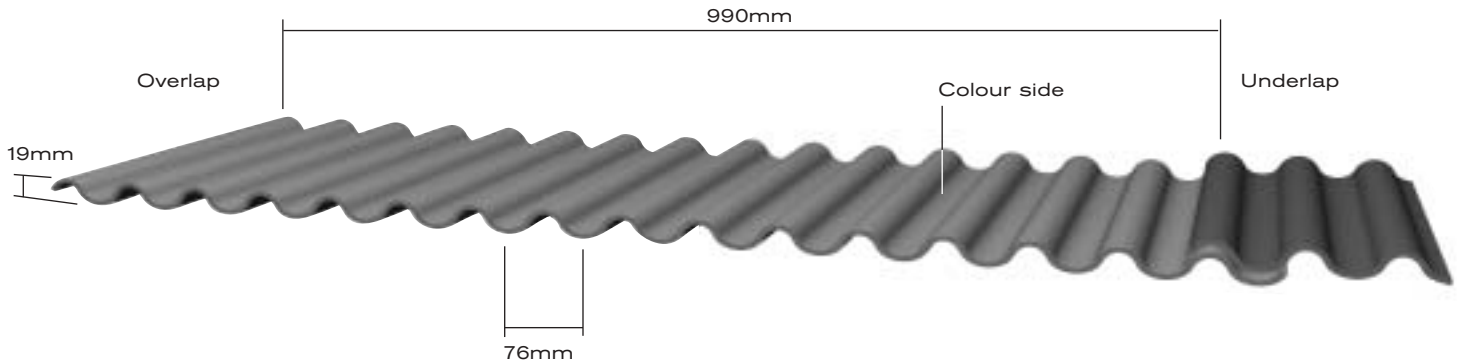
Deflection <math><L/100</math>

t (mm)	Mcap +ve (kNm/m)	Mcap -ve (kNm/m)	left (mm ⁴ /m)	Rcap (kN/m)
0.9	1.23	1.25	9.073	17.01
0.7	0.84	0.85	6.509	10.91

Single Span Case – Permissible working +ve Loads																		
Thickness	Design Case	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.9 mm	Moment	6.56	5.42	4.56	3.88	3.35	2.92	2.56	2.27	2.02	1.82	1.64	1.49	1.36	1.24	1.14	1.05	0.97
	Inertia	14.28	10.73	8.27	6.50	5.21	4.23	3.49	2.91	2.45	2.08	1.79	1.54	1.34	1.17	1.03	0.91	0.81
	Reaction	22.68	20.62	18.90	17.45	16.20	15.12	14.18	13.34	12.60	11.94	11.34	10.80	10.31	9.86	9.45	9.07	8.72
	Limiting	6.56	5.42	4.56	3.88	3.35	2.92	2.56	2.27	2.02	1.82	1.64	1.49	1.34	1.17	1.03	0.91	0.81

Double Span Case – Permissible working +ve Loads																		
Thickness	Design Case	Spans in Metres																
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
0.9 mm	Moment	6.67	5.51	4.63	3.94	3.40	2.96	2.60	2.31	2.06	1.85	1.67	1.51	1.38	1.26	1.16	1.07	0.99
	Inertia	34.41	25.85	19.91	15.66	12.54	10.20	8.40	7.00	5.90	5.02	4.30	3.72	3.23	2.83	2.49	2.20	1.96
	Reaction	14.18	12.89	11.81	10.90	10.13	9.45	8.86	8.34	7.88	7.46	7.09	6.75	6.44	6.16	5.91	5.67	5.45
	Interaction	12.73	10.91	9.46	8.28	7.32	6.51	5.83	5.25	4.76	4.33	3.96	3.63	3.35	3.09	2.87	2.66	2.48
	Limiting	6.67	5.51	4.63	3.94	3.40	2.96	2.60	2.31	2.06	1.85	1.67	1.51	1.38	1.26	1.16	1.07	0.99

QC 13^{1/2}/3 – Steel









Curving

Corrugated profile can be curved to almost infinite radii with a minimum length of 300mm.

Dimension details	
Cover width	990mm
Profile pitch	76mm
Profile depth	19mm
Underlap (Right as shown above)	19mm (from bottom dead centre)
Overlap (Left as shown above)	19mm (from top dead centre)

Weight per linear metre	
0.5mm	4.823 kgs
0.7mm	6.753 kgs
0.9mm	8.682 kgs

Load/Span deflection <L/200							
t mm	Span (m) condition	Maximum loads (dead and super) in kN/m ²					
		1.2	1.4	1.6	1.8	2.0	2.2
0.55		1.18	0.74	–	–	–	–
0.70		1.53	0.97	0.65	–	–	–
0.90		1.97	1.24	0.83	–	–	–
t mm	Span condition	Maximum loads (dead and super) in kN/m ²					
		1.2	1.4	1.6	1.8	2.0	2.2
0.55		1.97	1.24	0.82	–	–	–
0.70		2.56	1.61	1.08	0.76	–	–
0.90		3.29	2.07	1.39	0.98	0.71	–





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