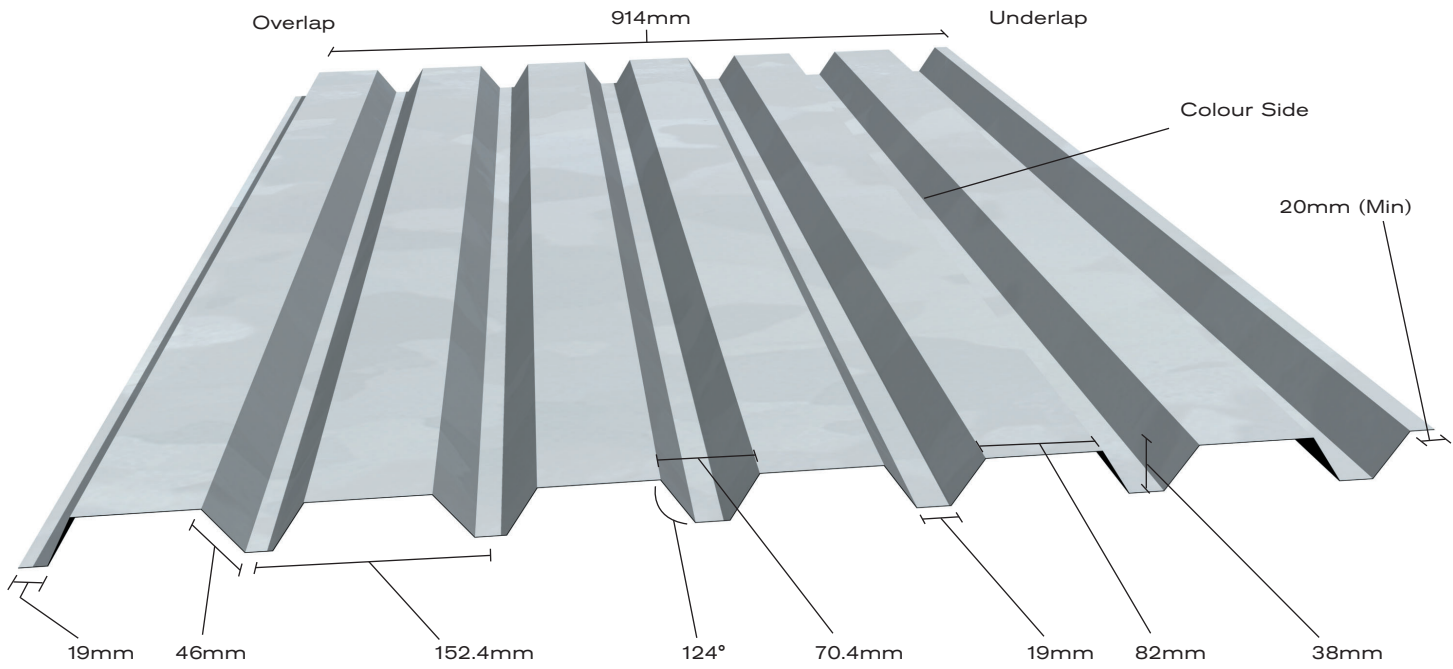


914/38mm Reverse – Aluminium



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