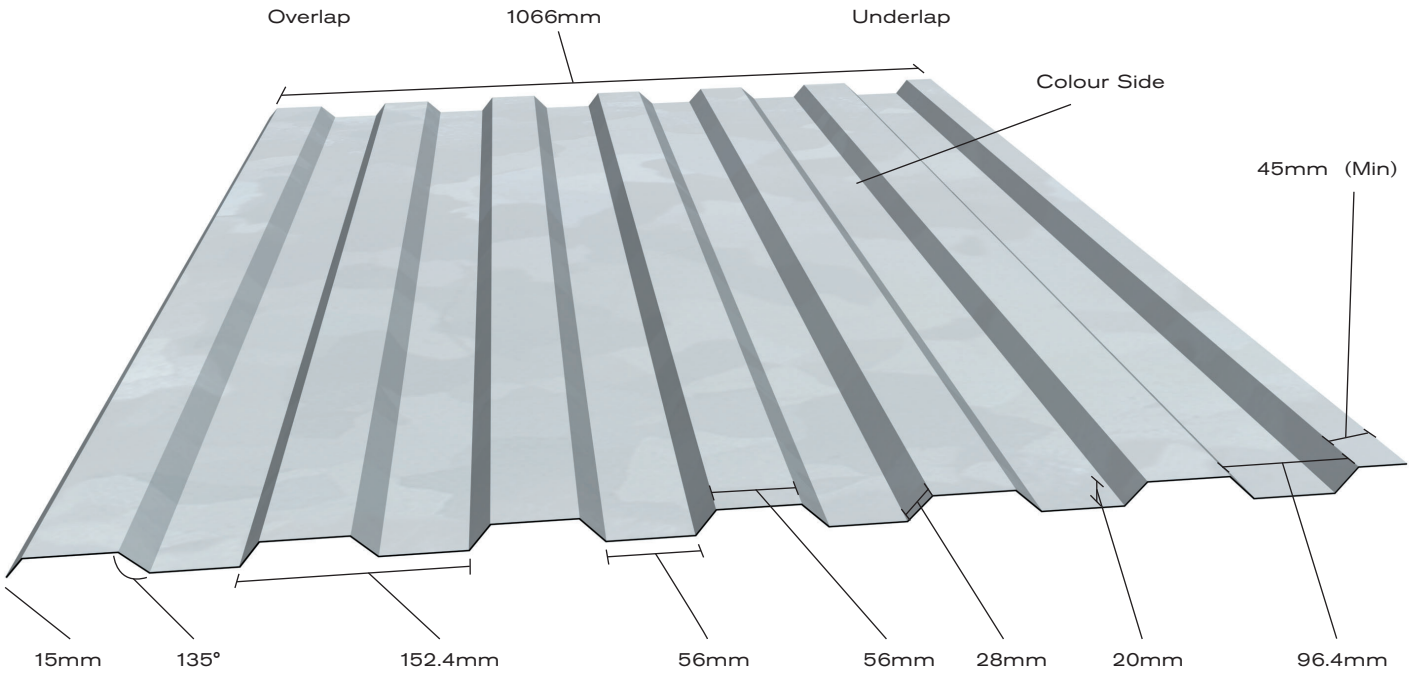
1066/20mm Forward – Aluminium



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 (mm4/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																
	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
0.7mm	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																
	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
0.7mm	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 (mm4/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																
	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
0.7mm	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																
	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
0.7mm	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