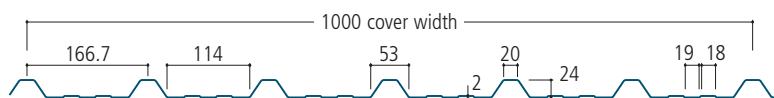


AS24/1000R ROOF PROFILE



A medium profile roof sheet available in 0.5mm and 0.7mm thicknesses. A matching wall profile is available (see page 2 for load span tables).

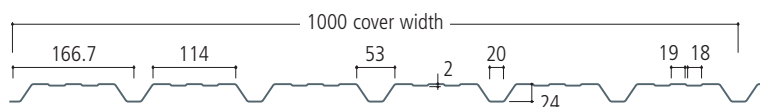
Table 04: AS24/1000R steel roof profile • Thickness 0.5mm • Weight 4.57 kg/m²

Bottom flange in compression		Top flange in compression				Support width 40mm	Web crushing 8.318 kN/m	Young modulus 205 kN/mm ²	
Moment capacity 0.513 kNm/m Moment of inertia 3.514 cm ⁴ /m		Moment capacity 0.527 kNm/m Moment of inertia 3.514 cm ⁴ /m							
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.07	1.53	1.18	0.94	0.77	0.62	0.49	0.40	0.33
double	2.12	1.57	1.21	0.96	0.79	0.65	0.56	0.48	0.42
triple	2.65	1.95	1.50	1.19	0.97	0.81	0.69	0.59	0.51
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	1.56	0.96	0.63	0.43	0.30	0.21	0.15	0.11	0.08
double	1.43	1.10	0.86	0.70	0.53	0.39	0.29	0.22	0.16
triple	1.74	1.34	1.06	0.74	0.53	0.39	0.29	0.22	0.16
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.73	1.99	1.51	1.18	0.94	0.77	0.64	0.53	0.45
double	2.18	1.67	1.32	1.06	0.87	0.73	0.61	0.52	0.44
triple	2.65	2.04	1.61	1.31	1.08	0.90	0.77	0.66	0.56

Table 05: AS24/1000R steel roof profile • Thickness 0.7mm • Weight 6.49 kg/m²

Bottom flange in compression		Top flange in compression				Support width 40mm	Web crushing 17.275 kN/m	Young modulus 205 kN/mm²	
Moment capacity 0.777 kNm/m		Moment capacity 0.823 kNm/m							
Moment of inertia 5.229 cm⁴/m		Moment of inertia 5.229 cm⁴/m							
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.13	2.31	1.78	1.42	1.16	0.92	0.73	0.59	0.48
double	3.31	2.45	1.88	1.50	1.22	1.02	0.86	0.74	0.65
triple	4.13	3.05	2.34	1.86	1.52	1.26	1.07	0.92	0.80
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.32	1.44	0.94	0.64	0.45	0.32	0.23	0.17	0.12
double	2.40	1.82	1.42	1.11	0.79	0.58	0.43	0.33	0.25
triple	2.93	2.23	1.61	1.11	0.79	0.58	0.43	0.33	0.25
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	4.27	3.11	2.36	1.85	1.48	1.21	1.00	0.84	0.71
double	3.65	2.77	2.17	1.74	1.39	1.14	0.94	0.79	0.67
triple	4.46	3.40	2.67	2.15	1.76	1.44	1.20	1.01	0.86

AS24/1000W WALL PROFILE



A medium profile wall sheet available in 0.5mm and 0.7mm thicknesses. A matching roof profile is available (see page 1 for load span tables).

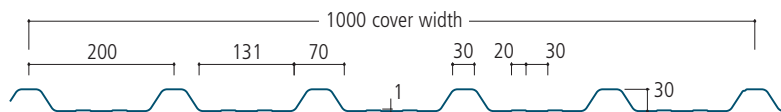
Table 06: AS24/1000W steel wall profile • Thickness 0.5mm • Weight 4.57 kg/m²

Top flange in compression		Bottom flange in compression							
Moment capacity 0.513 kNm/m		Moment capacity 0.527 kNm/m				Support width	Web crushing	Young modulus	
Moment of inertia 3.514 cm ⁴ /m		Moment of inertia 3.514 cm ⁴ /m				40mm	8.318 kN/m	205 kN/mm ²	
Wind suction		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.09	1.54	1.13	0.79	0.58	0.43	0.33	0.26	0.21
double	2.04	1.50	1.15	0.90	0.73	0.61	0.51	0.43	0.37
triple	2.54	1.87	1.43	1.13	0.92	0.76	0.64	0.54	0.47
Wind pressure		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.04	1.50	1.13	0.79	0.58	0.43	0.33	0.26	0.21
double	1.71	1.32	1.05	0.86	0.71	0.60	0.52	0.45	0.38
triple	2.07	1.60	1.28	1.05	0.87	0.74	0.63	0.55	0.48

Table 07: AS24/1000W steel wall profile • Thickness 0.7mm • Weight 6.49 kg/m²

Top flange in compression		Bottom flange in compression							
Moment capacity 0.777 kNm/m		Moment capacity 0.823 kNm/m				Support width		Web crushing	
Moment of inertia 5.229 cm ⁴ /m		Moment of inertia 5.229 cm ⁴ /m				40mm		17.275 kN/m	
								Young modulus	
								205 kN/mm ²	
Wind suction		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.27	2.40	1.67	1.18	0.86	0.64	0.50	0.39	0.31
double	3.08	2.27	1.73	1.37	1.11	0.92	0.77	0.66	0.57
triple	3.85	2.83	2.17	1.71	1.39	1.15	0.96	0.82	0.71
Wind pressure		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.08	2.27	1.67	1.18	0.86	0.64	0.50	0.39	0.31
double	2.92	2.24	1.77	1.43	1.18	0.97	0.82	0.70	0.60
triple	3.55	2.73	2.16	1.76	1.46	1.21	1.02	0.87	0.75

AS30/1000R ROOF PROFILE



A deep profile roof sheet available in 0.5mm and 0.7mm thicknesses. The male underlapping sheet edge has a support leg and an anti-syphonic groove. A matching wall profile is available (see page 4 for load span tables).

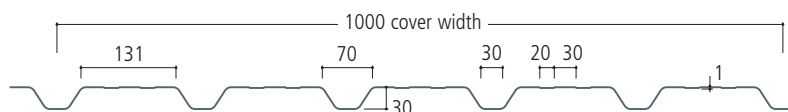
Table 08: AS30/1000R steel roof profile • Thickness 0.5mm • Weight 4.57 kg/m²

Bottom flange in compression		Top flange in compression							
Moment capacity 0.682 kNm/m		Moment capacity 0.643 kNm/m				Support width		Web crushing	
Moment of inertia 5.958 cm ⁴ /m		Moment of inertia 5.943 cm ⁴ /m				40mm		5.112 kN/m	
								Young modulus	
								205 kN/mm ²	
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.74	2.02	1.55	1.24	1.01	0.84	0.71	0.61	0.52
double	2.58	1.91	1.47	1.17	0.95	0.79	0.67	0.58	0.50
triple	3.22	2.38	1.83	1.45	1.18	0.98	0.83	0.71	0.62
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.19	1.60	1.10	0.76	0.54	0.39	0.29	0.22	0.17
double	1.36	1.07	0.87	0.72	0.60	0.51	0.44	0.38	0.31
triple	1.62	1.29	1.05	0.87	0.73	0.62	0.52	0.40	0.31
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.34	2.44	1.85	1.45	1.16	0.95	0.79	0.66	0.56
double	2.07	1.64	1.32	1.09	0.91	0.77	0.66	0.57	0.50
triple	2.48	1.96	1.59	1.32	1.11	0.95	0.81	0.71	0.62

Table 09: AS30/1000R steel roof profile • Thickness 0.7mm • Weight 6.49 kg/m²

Bottom flange in compression		Top flange in compression				Support width 40mm	Web crushing 11.483 kN/m	Young modulus 205 kN/mm ²	
Moment capacity 1.054 kNm/m		Moment capacity 1.11 kNm/m							
Moment of inertia 9.056 cm ⁴ /m		Moment of inertia 9.056 cm ⁴ /m							
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	4.23	3.12	2.40	1.91	1.55	1.29	1.09	0.94	0.79
double	4.45	3.28	2.52	2.00	1.63	1.36	1.15	0.98	0.86
triple	5.55	4.09	3.14	2.49	2.03	1.68	1.42	1.22	1.06
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.80	2.53	1.68	1.16	0.83	0.60	0.45	0.34	0.26
double	2.54	1.97	1.58	1.29	1.07	0.90	0.77	0.61	0.48
triple	3.05	2.38	1.92	1.57	1.31	1.05	0.79	0.61	0.48
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	5.79	4.23	3.22	2.52	2.03	1.66	1.38	1.16	0.99
double	3.86	3.01	2.41	1.97	1.63	1.38	1.17	1.01	0.88
triple	4.65	3.63	2.92	2.39	2.00	1.69	1.45	1.25	1.09

AS30/1000W WALL PROFILE



A deep profiled wall sheet available in 0.5 and 0.7mm thicknesses. A matching roof profile is available (see page 3 for load span tables).

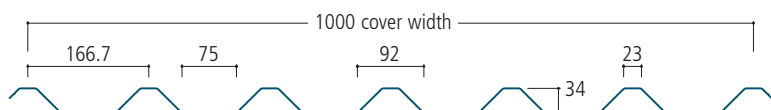
Table 10: AS30/1000W steel wall profile • Thickness 0.5mm • Weight 4.57 kg/m²

Top flange in compression		Bottom flange in compression				Support width 40mm	Web crushing 5.112 kN/m	Young modulus 205 kN/mm²	
Moment capacity 0.682 kNm/m		Moment capacity 0.643 kNm/m							
Moment of inertia 5.958 cm⁴/m		Moment of inertia 5.943 cm⁴/m							
Wind suction		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.55	1.87	1.44	1.13	0.92	0.73	0.56	0.44	0.36
double	2.71	1.99	1.52	1.20	0.97	0.81	0.68	0.58	0.50
triple	3.38	2.49	1.90	1.50	1.22	1.01	0.85	0.72	0.62
Wind pressure		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.71	1.99	1.52	1.20	0.97	0.73	0.57	0.44	0.36
double	1.56	1.23	1.00	0.83	0.70	0.60	0.52	0.46	0.40
triple	1.85	1.47	1.20	1.00	0.85	0.73	0.63	0.55	0.49

Table 11: AS30/1000W steel wall profile • Thickness 0.7mm • Weight 6.49 kg/m²

Top flange in compression		Bottom flange in compression				Support width 40mm	Web crushing 11.483 kN/m	Young modulus 205 kN/mm ²	
Moment capacity 1.054 kNm/m		Moment capacity 1.11 kNm/m							
Moment of inertia 9.056 cm ⁴ /m		Moment of inertia 9.056 cm ⁴ /m							
Wind suction		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	4.40	3.24	2.48	1.96	1.49	1.12	0.86	0.68	0.54
double	4.18	3.07	2.35	1.86	1.51	1.24	1.05	0.89	0.77
triple	5.23	3.84	2.94	2.32	1.88	1.56	1.31	1.11	0.96
Wind pressure		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	4.18	3.07	2.35	1.86	1.49	1.12	0.86	0.68	0.54
double	3.05	2.39	1.93	1.59	1.34	1.14	0.98	0.85	0.75
triple	3.65	2.87	2.33	1.92	1.62	1.38	1.19	1.04	0.92

AS34/1000R ROOF PROFILE



A deep profiled roof sheet available in 0.5 and 0.7mm thicknesses. The female overlapping sheet edge has an anti-syphonic groove. A matching wall profile is available (see page 6 for load span tables).

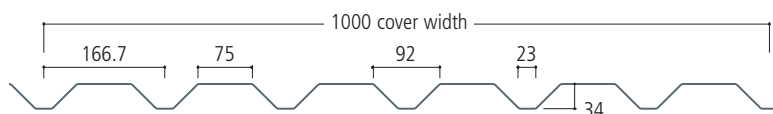
Table 12: AS34/1000R steel roof profile • Thickness 0.5mm • Weight 4.57 kg/m²

Bottom flange in compression		Top flange in compression				Support width 40mm	Web crushing 7.484 kN/m	Young modulus 205 kN/mm ²	
Moment capacity 0.846 kNm/m		Moment capacity 0.945 kNm/m							
Moment of inertia 6.425 cm ⁴ /m		Moment of inertia 8.183 cm ⁴ /m							
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.39	2.50	1.92	1.52	1.24	1.03	0.86	0.69	0.56
double	3.78	2.79	2.14	1.70	1.38	1.15	0.97	0.83	0.72
triple	4.72	3.48	2.67	2.12	1.72	1.43	1.20	1.03	0.89
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.24	2.30	1.53	1.06	0.76	0.56	0.42	0.32	0.25
double	1.85	1.45	1.17	0.96	0.80	0.68	0.58	0.51	0.44
triple	2.21	1.75	1.41	1.17	0.98	0.83	0.72	0.57	0.44
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	4.94	3.61	2.75	2.16	1.74	1.43	1.19	1.00	0.86
double	2.82	2.21	1.78	1.47	1.23	1.04	0.89	0.77	0.67
triple	3.37	2.66	2.15	1.78	1.49	1.27	1.09	0.95	0.83

Table 13: AS34/1000R steel roof profile • Thickness 0.7mm • Weight 6.49 kg/m²

Bottom flange in compression		Top flange in compression				Support width 40mm	Web crushing 15.758 kN/m	Young modulus 205 kN/mm ²	
Moment capacity 1.367 kNm/m Moment of inertia 10.471 cm ⁴ /m		Moment capacity 1.539 kNm/m Moment of inertia 12.177 cm ⁴ /m							
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	5.47	4.03	3.10	2.46	2.00	1.66	1.39	1.11	0.90
double	6.15	4.53	3.48	2.76	2.24	1.86	1.57	1.35	1.17
triple	7.68	5.65	4.34	3.44	2.79	2.32	1.95	1.67	1.45
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	5.29	3.43	2.28	1.58	1.13	0.84	0.63	0.48	0.37
double	3.39	2.63	2.11	1.72	1.43	1.21	1.03	0.84	0.66
triple	4.07	3.18	2.56	2.10	1.75	1.44	1.09	0.84	0.66
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	8.06	5.90	4.49	3.53	2.84	2.34	1.95	1.65	1.41
double	5.16	4.01	3.21	2.62	2.18	1.84	1.57	1.36	1.18
triple	6.21	4.85	3.90	3.20	2.67	2.26	1.94	1.67	1.46

AS34/1000W WALL PROFILE



A deep profiled wall sheet available in 0.5mm and 0.7mm thicknesses. A matching roof profile is available (see page 5 for load span tables).

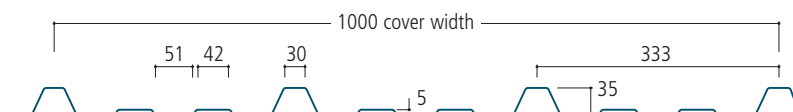
Table 14: AS34/1000W steel wall profile • Thickness 0.5mm • Weight 4.57 kg/m²

Top flange in compression		Bottom flange in compression				Support width 40mm		Web crushing 7.484 kN/m		Young modulus 205 kN/mm ²	
Moment capacity 0.846 kNm/m		Moment capacity 0.945 kNm/m									
Moment of inertia 6.425 cm ⁴ /m		Moment of inertia 8.183 cm ⁴ /m									
Wind suction		Deflection limit L/120									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80		
single	3.75	2.76	2.11	1.67	1.34	1.01	0.78	0.61	0.49		
double	3.36	2.47	1.89	1.49	1.21	1.00	0.84	0.72	0.62		
triple	4.20	3.08	2.36	1.87	1.51	1.25	1.05	0.89	0.77		
Wind pressure		Deflection limit L/120									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80		
single	3.36	2.47	1.89	1.45	1.05	0.79	0.61	0.48	0.38		
double	2.28	1.81	1.47	1.22	1.03	0.89	0.77	0.67	0.59		
triple	2.72	2.16	1.76	1.47	1.24	1.07	0.93	0.81	0.72		

Table 15: AS34/1000W steel wall profile • Thickness 0.7mm • Weight 6.49 kg/m²

Top flange in compression		Bottom flange in compression				Support width 40mm		Web crushing 15.758 kN/m	Young modulus 205 kN/mm ²
Moment capacity 1.367 kNm/m Moment of inertia 10.471 cm ⁴ /m		Moment capacity 1.539 kNm/m Moment of inertia 12.177 cm ⁴ /m							
Wind suction		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	6.11	4.49	3.44	2.71	2.00	1.50	1.16	0.91	0.73
double	5.42	3.99	3.05	2.41	1.95	1.61	1.36	1.16	1.00
triple	6.78	4.98	3.81	3.01	2.44	2.02	1.70	1.44	1.25
Wind pressure		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	5.42	3.99	3.05	2.36	1.72	1.29	0.99	0.78	0.63
double	4.21	3.30	2.67	2.20	1.85	1.57	1.36	1.18	1.04
triple	5.03	3.97	3.21	2.66	2.23	1.91	1.65	1.44	1.27

AS35/1000 ROOF PROFILE



A deep profile sheet which matches the AS35 insulated panel. Available in 0.5 and 0.7mm thicknesses.

AS35/1000 can also be used as a wall profile (see page 8 for load span tables).

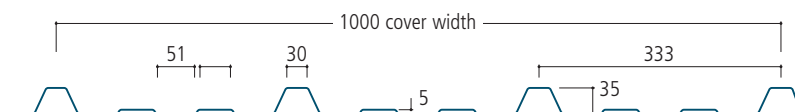
Table 16: AS35/1000 steel roof profile • Thickness 0.5mm • Weight 4.57 kg/m²

Bottom flange in compression		Top flange in compression				Support width 40mm	Web crushing 4.372 kN/m	Young modulus 205 kN/mm ²	
Moment capacity 0.511 kNm/m Moment of inertia 5.256 cm ⁴ /m		Moment capacity 0.479 kNm/m Moment of inertia 5.62 cm ⁴ /m							
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.06	1.52	1.17	0.93	0.76	0.64	0.54	0.46	0.41
double	1.93	1.43	1.10	0.88	0.72	0.60	0.51	0.44	0.38
triple	2.41	1.78	1.37	1.09	0.89	0.74	0.63	0.54	0.47
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	1.62	1.18	0.90	0.70	0.51	0.37	0.27	0.21	0.16
double	1.08	0.85	0.68	0.56	0.46	0.39	0.33	0.29	0.25
triple	1.30	1.02	0.82	0.68	0.57	0.48	0.41	0.36	0.29
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.47	1.80	1.36	1.07	0.85	0.69	0.57	0.48	0.40
double	1.65	1.29	1.04	0.85	0.71	0.60	0.51	0.44	0.38
triple	1.98	1.56	1.26	1.03	0.86	0.73	0.63	0.54	0.47

Table 17: AS35/1000 steel roof profile • Thickness 0.7mm • Weight 6.49 kg/m²

Bottom flange in compression		Top flange in compression				Support width 40mm	Web crushing 9.082 kN/m	Young modulus 205 kN/mm ²	
Moment capacity 0.793 kNm/m		Moment capacity 0.832 kNm/m							
Moment of inertia 8.373 cm ⁴ /m		Moment of inertia 8.708 cm ⁴ /m							
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.19	2.36	1.82	1.44	1.18	0.98	0.83	0.72	0.62
double	3.35	2.47	1.90	1.51	1.23	1.03	0.87	0.75	0.65
triple	4.17	3.08	2.37	1.88	1.53	1.27	1.08	0.93	0.80
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.83	2.07	1.57	1.11	0.79	0.58	0.43	0.33	0.25
double	1.94	1.50	1.20	0.97	0.81	0.68	0.57	0.49	0.43
triple	2.33	1.82	1.46	1.19	0.99	0.83	0.71	0.59	0.46
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	4.32	3.15	2.39	1.87	1.50	1.22	1.01	0.85	0.72
double	2.95	2.29	1.82	1.48	1.23	1.03	0.87	0.75	0.65
triple	3.55	2.77	2.22	1.81	1.51	1.27	1.08	0.93	0.81

AS35/1000 WALL PROFILE



A deep profile sheet which matches the AS35 insulated panel. Available in 0.5 and 0.7mm thicknesses.

AS35/1000 can also be used as a roof profile (see page 7 for load span tables).

Table 18: AS35/1000 steel wall profile • Thickness 0.5mm • Weight 4.57 kg/m²

Top flange in compression		Bottom flange in compression				Support width 40mm	Web crushing 4.372 kN/m	Young modulus 205 kN/mm ²	
Moment capacity 0.479 kNm/m		Moment capacity 0.511 kNm/m							
Moment of inertia 5.62 cm ⁴ /m		Moment of inertia 5.256 cm ⁴ /m							
Wind suction		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.03	1.49	1.14	0.90	0.73	0.60	0.50	0.39	0.31
double	1.90	1.40	1.07	0.84	0.68	0.57	0.48	0.40	0.35
triple	2.38	1.75	1.34	1.06	0.86	0.71	0.59	0.51	0.44
Wind pressure		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	1.90	1.40	1.07	0.84	0.68	0.57	0.48	0.40	0.34
double	1.28	1.01	0.82	0.68	0.58	0.49	0.43	0.37	0.33
triple	1.53	1.21	0.99	0.82	0.69	0.59	0.52	0.45	0.40

Table 19: AS35/1000 steel wall profile • Thickness 0.7mm • Weight 6.49 kg/m²

Top flange in compression		Bottom flange in compression				Support width 40mm	Web crushing 9.082 kN/m	Young modulus 205 kN/mm²	
Moment capacity 0.832 kNm/m		Moment capacity 0.793 kNm/m							
Moment of inertia 8.708 cm⁴/m		Moment of inertia 8.373 cm⁴/m							
Wind suction		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.15	2.31	1.77	1.40	1.13	0.94	0.79	0.63	0.50
double	3.30	2.43	1.86	1.47	1.19	0.98	0.83	0.70	0.61
triple	4.13	3.03	2.32	1.83	1.49	1.23	1.03	0.88	0.76
Wind pressure		Deflection limit L/120							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.30	2.43	1.86	1.47	1.19	0.98	0.83	0.65	0.52
double	2.28	1.78	1.43	1.18	0.99	0.84	0.72	0.63	0.55
triple	2.73	2.14	1.73	1.42	1.20	1.02	0.88	0.76	0.67

AS13/3/990 ROOF PROFILE



A shallow corrugated profile sheet available in 0.5mm and 0.7mm thicknesses. AS13/3/990 can also be used as a wall profile (see page 10 for load span tables).

Table 20: AS13/3/990 steel roof profile • Thickness 0.5mm • Weight 4.57 kg/m²

Bottom flange in compression		Top flange in compression				Support width 40mm	Web crushing 7.734 kN/m	Young modulus 205 kN/mm ²	
Moment capacity 0.542 kNm/m		Moment capacity 0.542 kNm/m							
Moment of inertia 1.782 cm ⁴ /m		Moment of inertia 1.782 cm ⁴ /m							
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	1.85	1.18	0.81	0.58	0.44	0.34	0.27	0.22	0.19
double	2.18	1.61	1.24	0.99	0.81	0.67	0.57	0.47	0.39
triple	2.72	2.01	1.54	1.23	0.98	0.75	0.59	0.47	0.39
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	0.77	0.47	0.30	0.19	0.13	0.09	0.06	0.03	0.02
double	1.31	0.81	0.53	0.36	0.25	0.17	0.12	0.09	0.06
triple	1.31	0.81	0.53	0.36	0.25	0.17	0.12	0.09	0.06
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.81	2.05	1.55	1.21	0.97	0.79	0.66	0.55	0.47
double	2.20	1.69	1.34	1.09	0.89	0.75	0.63	0.54	0.47
triple	2.67	2.06	1.64	1.33	1.10	0.93	0.79	0.68	0.58

Table 21: AS13/3/990 steel roof profile • Thickness 0.7mm • Weight 6.49 kg/m²

Bottom flange in compression		Top flange in compression				Support width 40mm	Web crushing 20.551 kN/m	Young modulus 205 kN/mm²	
Moment capacity 0.798 kNm/m		Moment capacity 0.798 kNm/m							
Moment of inertia 2.652 cm⁴/m		Moment of inertia 2.652 cm⁴/m							
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.75	1.76	1.20	0.86	0.64	0.50	0.40	0.33	0.28
double	3.21	2.37	1.83	1.45	1.19	0.99	0.84	0.70	0.57
triple	4.00	2.95	2.27	1.81	1.46	1.11	0.87	0.70	0.57
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	1.14	0.70	0.44	0.29	0.20	0.13	0.09	0.05	0.03
double	1.95	1.20	0.78	0.53	0.37	0.26	0.19	0.13	0.09
triple	1.95	1.20	0.78	0.53	0.37	0.26	0.19	0.13	0.09
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	4.14	3.02	2.29	1.79	1.43	1.17	0.97	0.81	0.69
double	3.90	2.95	2.29	1.79	1.43	1.17	0.97	0.81	0.69
triple	4.78	3.63	2.84	2.26	1.81	1.48	1.23	1.04	0.88

AS13/3/990 WALL PROFILE



A shallow corrugated profile sheet available in 0.5mm and 0.7mm thicknesses. AS13/3/990 can also be used as a roof profile (see page 9 for load span tables).

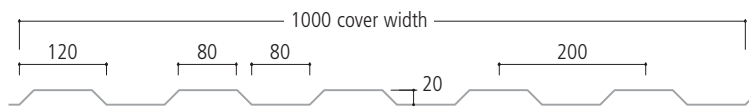
Table 22: AS13/3/990 steel wall profile • Thickness 0.5mm • Weight 4.57 kg/m²

Top flange in compression		Bottom flange in compression				Support width 40mm	Web crushing 7.734 kN/m	Young modulus 205 kN/mm ²		
Moment capacity 0.542 kNm/m Moment of inertia 1.782 cm ⁴ /m		Moment capacity 0.542 kNm/m Moment of inertia 1.782 cm ⁴ /m								
Wind suction		Deflection limit L/120								
Span		1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single		1.35	0.85	0.57	0.40	0.29	0.22	0.17	0.13	0.11
double		2.15	1.58	1.21	0.96	0.70	0.53	0.41	0.32	0.26
triple		2.69	1.98	1.37	0.97	0.70	0.53	0.41	0.32	0.26
Wind pressure		Deflection limit L/120								
Span		1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single		1.35	0.85	0.57	0.40	0.29	0.22	0.17	0.13	0.11
double		1.70	1.32	1.05	0.86	0.70	0.53	0.41	0.32	0.26
triple		2.05	1.59	1.28	0.97	0.70	0.53	0.41	0.32	0.26

Table 23: AS13/3/990 steel wall profile • Thickness 0.7mm • Weight 6.49 kg/m²

Top flange in compression		Bottom flange in compression				Support width 40mm	Web crushing 20.551 kN/m	Young modulus 205 kN/mm²		
Moment capacity 0.798 kNm/m		Moment capacity 0.798 kNm/m								
Moment of inertia 2.652 cm⁴/m		Moment of inertia 2.652 cm⁴/m								
Wind suction		Deflection limit L/120								
Span		1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single		2.01	1.27	0.85	0.60	0.43	0.33	0.25	0.20	0.16
double		3.17	2.33	1.78	1.41	1.05	0.79	0.61	0.48	0.38
triple		3.96	2.91	2.05	1.44	1.05	0.79	0.61	0.48	0.38
Wind pressure		Deflection limit L/120								
Span		1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single		2.01	1.27	0.85	0.60	0.43	0.33	0.25	0.20	0.16
double		2.99	2.28	1.78	1.41	1.05	0.79	0.61	0.48	0.38
triple		3.65	2.79	2.05	1.44	1.05	0.79	0.61	0.48	0.38

AS20/1000 LINER PROFILE



A shallow profiled liner sheet 0.4mm and 0.7mm thick. The AS30/1000R profile can also be used as a liner sheet where a more rigid roof lining is required.

Table 24: AS20/1000 steel liner profile • Thickness 0.7mm • Weight 5.75 kg/m²

Bottom flange in compression		Top flange in compression							
Moment capacity 0.683 kNm/m		Moment capacity 0.683 kNm/m				Support width		Web crushing	
Moment of inertia 4.195 cm ⁴ /m		Moment of inertia 4.195 cm ⁴ /m				65mm		15.386 kN/m	
								Young modulus	
								205 kN/mm ²	
Wind suction		Deflection limit L/90							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	2.75	2.03	1.57	1.25	0.97	0.75	0.59	0.48	0.39
double	2.75	2.03	1.57	1.25	1.02	0.85	0.72	0.62	0.54
triple	3.43	2.53	1.95	1.55	1.26	1.05	0.89	0.76	0.66
Imposed load		Deflection limit L/200							
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	1.85	1.15	0.75	0.51	0.36	0.25	0.18	0.13	0.09
double	2.11	1.60	1.26	0.89	0.63	0.46	0.34	0.26	0.19
triple	2.58	1.95	1.29	0.89	0.63	0.46	0.34	0.26	0.19
Drifting snow load									
Span	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
single	3.54	2.58	1.96	1.53	1.22	1.00	0.83	0.69	0.59
double	3.22	2.44	1.91	1.53	1.22	1.00	0.83	0.69	0.59
triple	3.94	3.00	2.36	1.90	1.55	1.27	1.05	0.89	0.75

Fragility

When 0.7mm thick AS20 or AS30 liner sheets are installed to Steadmans' recommendations - using correctly located fixings with 16mm bonded washers, 4mm diameter NFRC class A butyl sealant at the end laps and 50mm x 1mm Polyband air seal / moisture barrier tape at the side laps - the roof is classified as a class B non-fragile assembly, as defined in the ACR(M)001:2005 'Test for non-fragility of profiles sheeted roofing assemblies' (third edition).

When 0.7mm thick external sheet profiles are installed to Steadmans' recommendations - using correctly located fixings with 16mm bonded washers and 6mm x 5mm NFRC class A butyl sealant at the end and side laps - the roof is classified as a class B non-fragile assembly, as defined in the ACR(M)001:2005 'Test for non-fragility of profiles sheeted roofing assemblies' (third edition).

Durability

The profiles have a predicted service life of 40 years. Time to first maintenance depends upon the finish and the environmental conditions but can be as high as 30 years. Coatings will degrade more rapidly in industrial or coastal air conditions and darker finishes will fade more rapidly than light ones. Table 25 gives the time to first repainting for profiles finished with standard Plastisol colours.

Service life can be increased by treating site cut edges with site applied touch up paint at the time of cutting and by following the guidance on inspection and maintenance on page 45 of the Steadmans Twin Skin Systems technical brochure (click here to visit the maintenance page on our website).

Fire

When tested to BS 476-7:1997 AS roof and wall profiles achieve Class 1 surface spread of flame (Euroclass B), equivalent to Class 0 surface spread of flame as described in Approved Document B. When tested to BS 476-3:2004 the profiles achieve an FAA/SAA rating.

Biological

The profiles are unaffected by mould, fungi and mildew. They do not support vermin.

Table 25: Life to first full repainting for plastisol coated profiles

Colours	Wall profiles		Roof profiles	Table based on data from Dobel. Steel from other producers may have different durability values.
	Inland	Coastal*		
Group 1	30	25	25	
Group 2	25	20	20	

*within 1.5 miles from lake or sea shoreline

- Group 1: Bamboo, Buttermilk, Goosewing Grey, Ivory, Merlin Grey, Moorland Green, Mushroom, New Grey, Olive Green, Pigeon Grey, Wedgwood Blue, White, Willow.
- Group 2: Black, Cornflower Blue, Country Green, Golden Glow, Golden Yellow, Forest Green, Jade, Juniper Green, Linden Green, New Red, Ocean Blue, Pacific Blue, Poppy Red, Saffron, Sage Green, Slate Blue, Tangerine Orange, Terracotta, Vandyke Brown.