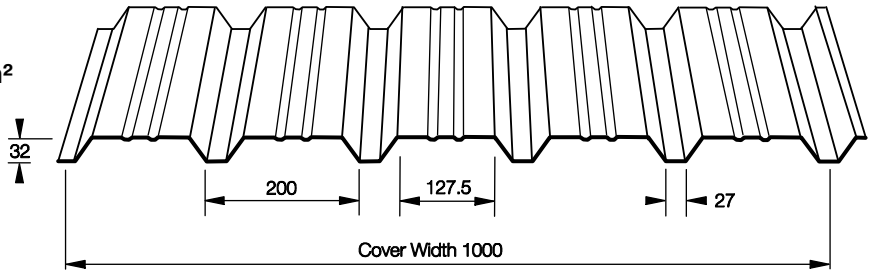
Corus Panels and Profiles
Roof Decking

D32s1000

Galvanised steel 280 N/mm²

Also S280 Colorcoat Interior Liner, in 1.2mm only

see separate data sheet for 0.7mm S220 Colorcoat .



Ultimate Section Properties

			Broad flange in compression		Narrow flange in compression		Bearing mm 50	
Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Moment Capacity kNm/m	Moment of Inertia cm^4/m	Moment Capacity kNm/m	Moment of Inertia cm^4/m	Web Crushing kN/m	Shear Capacity kN/m
0.70	0.66	6.67	1.33	10.71	1.38	11.44	17.88	34.75
0.90	0.86	8.58	1.78	14.19	1.83	14.91	28.80	44.99
1.20	1.16	11.46	2.43	19.19	2.47	20.11	49.24	60.10

Imposed load - deflection limit span / 200

Broad flange in compression, single span

Wind suction load - deflection limit span / 90

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN (metres) 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
Single	0.70	3.01	2.43	1.99	1.65	1.38	-	-	-	-	-	-	-	-	-	-
	0.90	3.99	3.23	2.64	2.19	1.83	1.54	1.31	-	-	-	-	-	-	-	-
	1.20	5.39	4.36	3.58	2.96	2.48	2.09	1.78	1.52	1.31	-	-	-	-	-	-
Double	0.70	2.99	2.66	2.38	2.15	1.95	1.77	1.62	1.48	1.37	1.26	-	-	-	-	-
	0.90	4.23	3.75	3.36	3.02	2.73	2.48	2.26	2.07	1.90	1.75	1.62	1.49	1.37	1.27	-
	1.20	6.12	5.42	4.83	4.33	3.89	3.50	3.16	2.86	2.60	2.38	2.18	2.01	1.85	1.71	1.55
Multi	0.70	3.61	3.22	2.90	2.61	2.37	2.16	1.98	1.82	1.67	1.55	1.41	1.24	-	-	-
	0.90	5.14	4.57	4.09	3.68	3.34	3.03	2.77	2.54	2.34	2.13	1.86	1.64	1.45	1.28	-
	1.20	7.47	6.62	5.91	5.31	4.79	4.35	3.95	3.58	3.26	2.88	2.52	2.22	1.96	1.74	1.55

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN (metres) 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
Single	0.70	3.81	3.32	2.92	2.60	2.32	-	-	-	-	-	-	-	-	-	-
	0.90	5.04	4.40	3.87	3.44	3.07	2.76	2.50	-	-	-	-	-	-	-	-
	1.20	6.81	5.94	5.23	4.64	4.15	3.73	3.37	3.07	2.80	-	-	-	-	-	-
Double	0.70	3.67	3.21	2.82	2.51	2.24	2.01	1.82	1.66	1.51	1.39	-	-	-	-	-
	0.90	4.90	4.27	3.76	3.34	2.98	2.68	2.43	2.21	2.02	1.85	1.70	1.57	1.46	1.36	-
	1.20	6.70	5.84	5.15	4.57	4.08	3.67	3.32	3.02	2.76	2.53	2.33	2.15	2.00	1.86	1.73
Multi	0.70	4.58	4.00	3.52	3.12	2.79	2.51	2.27	2.06	1.88	1.72	1.59	1.47	-	-	-
	0.90	6.11	5.33	4.69	4.16	3.72	3.34	3.02	2.74	2.51	2.30	2.11	1.95	1.81	1.68	-
	1.20	8.35	7.29	6.41	5.69	5.08	4.57	4.13	3.75	3.43	3.14	2.89	2.67	2.48	2.30	2.14

Maximum Span under Line Load*

Thickness mm	0.70			0.90			1.20		
Line load kN/m	**1.5**	**2.0**	**3.0**	**1.5**	**2.0**	**3.0**	**1.5**	**2.0**	**3.0**
Single span (m)	1.83	1.59	1.10	2.09	1.81	1.46	2.39	2.07	1.69
Double / multi span (m)	2.60	1.97	1.33	3.13	2.61	1.76	3.58	3.10	2.39

These load span tables have been calculated to BS5950 Part 6, & provide safe working loads (factor 1.5). Information in this datasheet may be changed without notice.

*Line loads as defined in BS 5950 Part 6 Section 2.2. Roof loading should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) CP&P recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m^2. Snow and wind loading may be more severe than this, however.

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