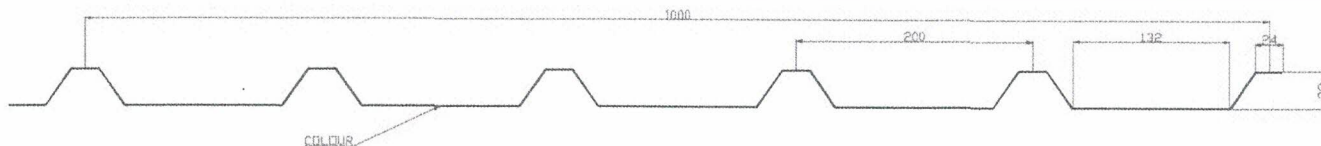


GL-32W - 0.5



GL-32W 0.5mm roof profile is available in various finishes including HPS200, Leathergrain, Prisma and Polyester.

The relevant load spans are below with the UKCA mark.

A Declaration of Performance is available on our website www.glprofiles.co.uk

Bottom flange in compression

Moment capacity(kNm / m)	0.569
Inertia (cm4 / m)	4.114

Thickness	0.46
Minimum span	1
Span increment	0.1

Bottom flange in tension

Moment capacity(kNm / m)	0.648
Inertia (cm4 / m)	6.811

Load factor (working load to ultimate)	1.5
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Shear resistance (kN/m)	19.953
Web crushing mid (kN/m)	5.156
Web crushing end (kN/m)	2.578

Bearing - edge [mm]	10
Bearing - mid [mm]	10

Inertia gross section (cm4 / m)	7.14
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Poissons ratio	0.3
Young's modulus E (N/mm2)	210000

Deflection for limit of span /	150
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SINGLE SPAN CASE - working load UDL (kN/m2)

Span (m)																	
Design case	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6
Moment	3.46	2.86	2.4	2.04	1.76	1.54	1.35	1.2	1.07	0.96	0.86	0.78	0.71	0.65	0.6	0.55	0.51
Inertia	7.44	5.59	4.31	3.39	2.71	2.2	1.82	1.51	1.28	1.08	0.93	0.8	0.7	0.61	0.54	0.48	0.42
Reaction	3.44	3.12	2.86	2.64	2.46	2.29	2.15	2.02	1.91	1.81	1.72	1.64	1.56	1.49	1.43	1.37	1.32
Limiting	3.44	2.86	2.4	2.04	1.76	1.54	1.35	1.2	1.07	0.96	0.86	0.78	0.7	0.61	0.54	0.48	0.42

DOUBLE SPAN CASE - working load UDL (kN/m2)

Span (m)																	
Design case	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6
Moment	3.03	2.51	2.11	1.8	1.55	1.35	1.19	1.05	0.94	0.84	0.76	0.69	0.63	0.57	0.53	0.49	0.45
Inertia	12.4	9.32	7.18	5.64	4.52	3.67	3.03	2.52	2.13	1.81	1.55	1.34	1.16	1.02	0.9	0.79	0.71
Reaction	2.75	2.5	2.29	2.12	1.96	1.83	1.72	1.62	1.53	1.45	1.37	1.31	1.25	1.2	1.15	1.1	1.06
Interaction	1.8	1.56	1.37	1.21	1.08	0.97	0.88	0.8	0.73	0.66	0.61	0.56	0.52	0.48	0.45	0.42	0.39
Limiting	1.8	1.56	1.37	1.21	1.08	0.97	0.88	0.8	0.73	0.66	0.61	0.56	0.52	0.48	0.45	0.42	0.39

MULTIPLE SPAN CASE - working load UDL (kN/m2)

	Span (m)																	
Design case	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	
Moment	3.79	3.13	2.63	2.24	1.94	1.69	1.48	1.31	1.17	1.05	0.95	0.86	0.78	0.72	0.66	0.61	0.56	
Inertia	12.4	9.32	7.18	5.64	4.52	3.67	3.03	2.52	2.13	1.81	1.55	1.34	1.16	1.02	0.9	0.79	0.71	
Reaction	3.12	2.84	2.6	2.4	2.23	2.08	1.95	1.84	1.74	1.64	1.56	1.49	1.42	1.36	1.3	1.25	1.2	
Interaction	2.14	1.86	1.64	1.45	1.3	1.16	1.05	0.96	0.87	0.8	0.74	0.68	0.63	0.59	0.55	0.51	0.48	
Limiting	2.14	1.86	1.64	1.45	1.3	1.16	1.05	0.96	0.87	0.8	0.74	0.68	0.63	0.59	0.55	0.51	0.48	