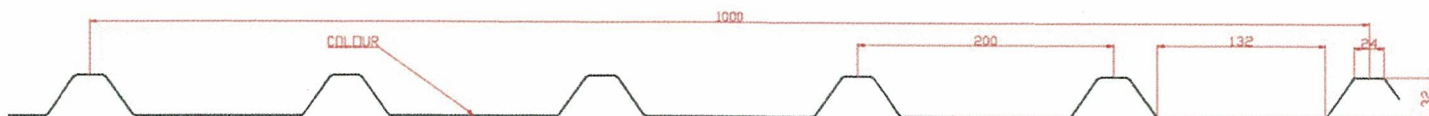


GL-32R - 0.7



GL-32R 0.7mm 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)	0.89
Inertia (cm4 / m)	7.114

Bottom flange in tension	
Moment capacity(kNm / m)	1.028
Inertia (cm4 / m)	10.993

Shear resistance (kN/m)	32.704
Web crushing mid (kN/m)	10.205
Web crushing end (kN/m)	5.103

Inertia gross section (cm4 / m)	10.993
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Thickness	0.66
Minimum span	1
Span increment	0.1

Load factor (working load to ultimate)	1.5
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Bearing - edge [mm]	10
Bearing - mid [mm]	10

Poissons ratio	0.3
Young's modulus E (N/mm2)	210000

Deflection for limit of span /	200
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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	5.48	4.53	3.81	3.24	2.8	2.44	2.14	1.9	1.69	1.52	1.37	1.24	1.13	1.04	0.95	0.88	0.81	
Inertia	8.86	6.66	5.13	4.03	3.23	2.63	2.16	1.8	1.52	1.29	1.11	0.96	0.83	0.73	0.64	0.57	0.5	
Reaction	6.8	6.19	5.67	5.23	4.86	4.54	4.25	4	3.78	3.58	3.4	3.24	3.09	2.96	2.84	2.72	2.62	
Limiting	5.48	4.53	3.81	3.24	2.8	2.44	2.14	1.8	1.52	1.29	1.11	0.96	0.83	0.73	0.64	0.57	0.5	

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	4.75	3.92	3.3	2.81	2.42	2.11	1.85	1.64	1.47	1.31	1.19	1.08	0.98	0.9	0.82	0.76	0.7
Inertia	14.8	11.1	8.55	6.72	5.38	4.38	3.61	3.01	2.53	2.15	1.85	1.6	1.39	1.21	1.07	0.95	0.84
Reaction	5.44	4.95	4.54	4.19	3.89	3.63	3.4	3.2	3.02	2.86	2.72	2.59	2.47	2.37	2.27	2.18	2.09
Interaction	3.17	2.74	2.39	2.1	1.87	1.67	1.5	1.36	1.23	1.13	1.03	0.95	0.88	0.81	0.76	0.7	0.66
Limiting	3.17	2.74	2.39	2.1	1.87	1.67	1.5	1.36	1.23	1.13	1.03	0.95	0.88	0.81	0.76	0.7	0.66

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	5.93	4.9	4.12	3.51	3.03	2.64	2.32	2.05	1.83	1.64	1.48	1.35	1.23	1.12	1.03	0.95	0.88
Inertia	14.8	11.1	8.55	6.72	5.38	4.38	3.61	3.01	2.53	2.15	1.85	1.6	1.39	1.21	1.07	0.95	0.84
Reaction	6.18	5.62	5.15	4.76	4.42	4.12	3.87	3.64	3.44	3.26	3.09	2.95	2.81	2.69	2.58	2.47	2.38
Interaction	3.79	3.27	2.86	2.53	2.25	2.01	1.81	1.64	1.49	1.37	1.25	1.15	1.07	0.99	0.92	0.86	0.8
Limiting	3.79	3.27	2.86	2.53	2.25	2.01	1.81	1.64	1.49	1.37	1.25	1.15	1.07	0.99	0.92	0.86	0.8