

Multi-Purpose 450mm Steel Beam

Available in standard lengths 2, 3, 4, 5 and 6m and 4.25, 5.25 and 6.25m for system applications. Can be joined with simple spigot connectors for increased spans. Huge range of verified load and support case histories – approved calculations immediately available in tabular form.

Steel 450mm Unit Beam

Own weight: 10kg/m. Connected beams: maximum shear 19.4kN, maximum moment 27kNm. Top chord restraint interval = 1.2m.



Span (m)	3	4	5	6	7	8	9	10	12
UDL (kN/m)	14.37	9.72	8.10	6.00	4.30	3.24	2.52	2.01	1.36
Point load (kN) (mid-span)	28.34	21.78	20.05	17.53	13.48	12.57	11.05	9.83	7.99

Lightweight 450mm Aluminium Beam

Gain the advantage of easy handling while retaining high capacity and approved design – the 8m beam weighs just 32.7kg. Standard lengths 2, 3, 4, 5, 6 and 8m. Spans up to 12m are possible using the standard spigot connector. Manufactured from high-grade, thick walled tube in standard scaffold tube diameter.

Aluminium 450mm Unit Beam

Own weight: 4.5kg/m. Connected beams: maximum shear 12.32kN, maximum moment 13.94kNm. Top chord restraint interval = 1.0m.



Span (m)	3	4	5	6	7	8	9	10	12
UDL (kN/m)	8.21	6.15	4.43	3.06	2.24	1.71	1.34	1.08	0.74
Point load (kN) (mid-span)	18.50	13.84	11.03	9.16	7.81	6.80	6.00	5.37	4.40

Heavy-duty 750mm Steel Beam

Unique high-performance steel beam for demanding applications where high loads are required. Standard lengths 2, 3, 4, 5, 6 and 7 metres. Multi-beam spans are possible using the heavy-duty spigot connector. Ideal for use with Beaver cassette decks and U-profiles to create high-performance roofs up to 30m span.

Steel 750mm Unit Beam

Own weight: 16kg/m. Connected beams: maximum shear 27.3kN, maximum moment 55.2kNm. Top chord restraint interval = 0.95m.



Span (m)	3	4	5	6	7	8	9	10	12
UDL (kN/m)	18.18	13.60	10.85	9.02	7.71	6.68	5.25	4.22	2.89
Point load (kN) (mid-span)	54.53	54.28	43.30	35.95	30.69	26.72	23.62	21.12	17.35

High Performance Roofs with Beaver Cassette Decks

Beaver₈₄ has revolutionised temporary roof construction; using three additional components, steel beams can be converted into robust, structurally proven and economical temporary roofs. All components are high quality, indefinitely reusable and galvanised for long life. Massive labour and material savings on every job combined with 100% reusable components means you can't go wrong with Beaver Cassette.

Beaver roof cassettes, in all steel construction, combine waterproofing, protection and structural plan bracing in one unit. Roof cassettes are available in 2m or 2.5m widths and 1m or 2m lengths.

Beaver U-Profiles in all steel construction can be used on any beam with $\phi 48.3$ mm top chords. High strength forged couplers secure the profile to the beam while simple wedge housings are used to lock the cassettes into position.

Beaver double tie bars lace and brace the top chord and bottom chords of beams in one structurally proven component. Quick to fix and light to carry, the double tie bars can be located in alternate bays, vastly reducing the volume of equipment required for traditional temporary roofing.

