

Structural Products
UK & Ireland

Multibeam & Multichannel Service Brackets Product Data Sheet

Multibeam Purlins & Rails / Multichannel



Multibeam & Multichannel Service Brackets

Product Data Sheet

Clip Attached to the Lip - Purlins

Service loads supported by a clip hung on the lip of the Multibeam or Multichannel should be limited to the value shown in the tables below. All are allowable loads (SLS).

Table 1.1: Multibeam (65mm flange) and Multichannel (70mm flange).

Section Gauge (mm)	Total Load (kg)	Total Load (kN)
1.2	10	0.098
1.3	10	0.098
1.4	15	0.147
1.5 and above	20	0.196

Table 1.2: Multibeam and Multichannel (90mm flange).

Section Gauge (mm)	Total Load (kg)	Total Load (kN)
1.5 and above	7	0.069

Table 1.3: Multibeam (95mm flange).

Section Gauge (mm)	Total Load (kg)	Total Load (kN)
1.5 and above	6	0.059

Clips supporting the above loads should not be positioned closer than 400 mm along the lip.

The applied load on the clips must always be within the capacity of the section to support. This will normally be the service load applied in the design to select the section.

The service load must always be applied in a way to avoid causing the purlin section to twist. This may include additional uni-strut or similar components supplied by the service contractor to stabilise the supports.

Kingspan do not recommend using lip supported clip service brackets where there is cyclic loading or vibration in the load supported.

Other Service Attachments

Where the service load exceeds the capacity of the lip supported clips, other means of attaching the service loads should be adopted.

- Wrap around service brackets.** These are available from several third-party suppliers, Lindapter, Kaddie, Gripplie and others. Capacities and load factors should be sought from the manufacturer.
- Direct bolting.** Holes can be drilled in the purlin to facilitate attachment of services. We recommend that site drilled holes are limited to 10 mm diameter.
- Self-drill self-tapping screws.** These may be utilised to produce an attachment point – the manufacturer of the fixing performance values should be consulted.
- Shot fired nails.** Not normally recommended with cold formed Multibeam and Multichannel sections, but check with the manufacturer of the system for specific guidance.

General

The applied load on the attachment must always be within the capacity of the section to support. This will normally be the service load applied in the design to select the section.

The service load must always be applied in a way to avoid causing the purlin section to twist. This may include additional uni-strut or similar components supplied by the service contractor to stabilise the supports.

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