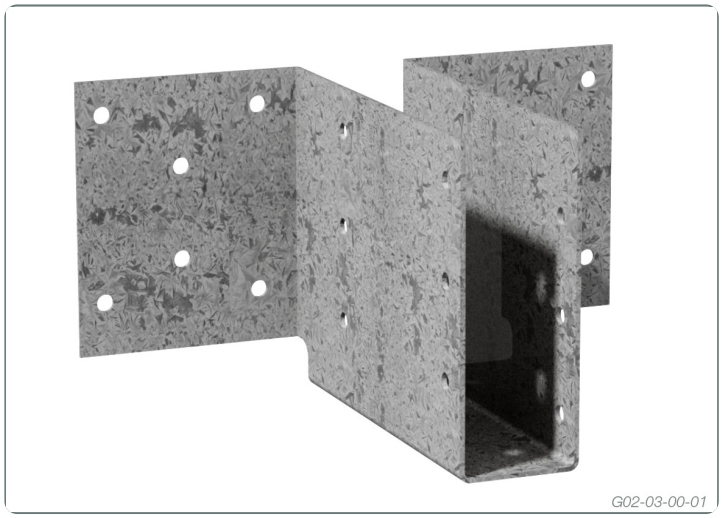
Multinail Hub - High Load Easy Fix Girder Bracket

14 May 2020

Multinail Australia

High Load Easy Fix Girder Bracket

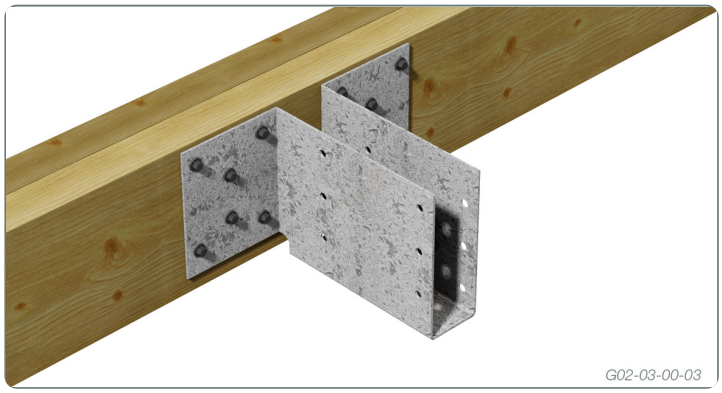


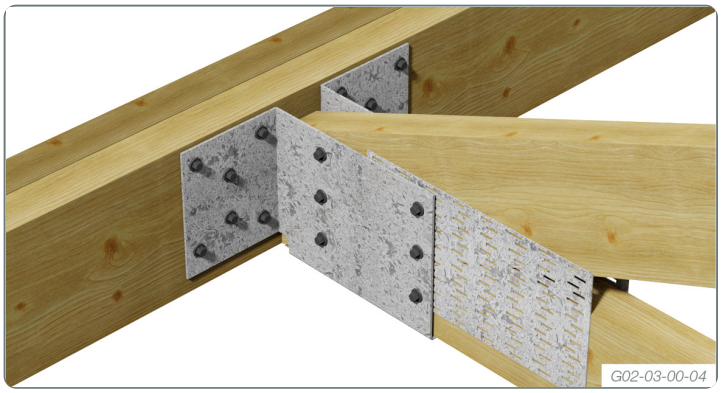
Steel girder brackets for easy fixing of timber roof trusses or rafters to the girder trusses or timber beams

These pre-punched and formed galvanised steel girder brackets are:
Ideal for supporting timber roof trusses or rafters in high wind areas.
Available in two sizes - 40mm to suit 35 or 38mm timber thickness,
and 50mm to suit 45mm or 47mm timber thickness.

APPLICATION

Mark on the girder bottom chord (120mm minimum) the location of all girder brackets and hangers.
Position the High Load Girder Bracket against the bottom of the girder bottom chord and apply Multinail Black Tip #14 screws.
Black Tip #14 screws must be applied until the underside of the screw head is against the Girder Bracket.
Do Not overtighten the screws or use power drills that are too powerful for the job as this may damage the timber, screws or bracket.





Step 1

Fix 12/25mm Black Tip #14 screws (6 per wing) to the girder truss.
Double Truss - Use 65mm long Black Tip #14 screws to fix to the double girder trusses.
Triple Truss - Use 100mm long Black Tip #14 screws to fix to the triple girder trusses.

Step 2

Fix 12/25mm Black Tip #14 screws (6 per side) to the supported truss to ensure that the uplift and anti-rotation features of the Girder Bracket is maintained.

NOTES:

- The High Load Girder Bracket is only provided with structural adequacy certificate when used with Black Tip #14 screws.
- Roof provides diagrams and details of the Girder Bracket type and positioning.

SCREW DETAILS

- Multinail recommends the use of roofing screw drivers to fix screws.
- Black Tip #14 screws self drill through 1mm plates.
- It is recommended that the Black Tip #14 screws are applied in one action.
- When screwing into hardwood, holes should be pre-drilled for 65mm and 100 mm long screws.
- Supported truss to be hard into girder truss.
- All screws to be inserted prior to roof truss being loaded to avoid rotation.

LIMIT STATE DESIGN CAPACITIES

	Dead Load	Dead Load +Live Load	Dead Load + Wind Load
J2/JD3	14.8kN	20.0kN	29.1kN
J3/JD4	10.4kN	14.0kN	20.7kN
J4/JD5	7.3kN	10.0kN	14.8kN

NOTES: The uplift in capacities are derived from AS1720-2010 and are for houses where failure is unlikely to affect an area greater than 25m². For primary elements in structures other than houses or elements in a house for which failure would be greater than 25m² these capacities must be multiplied by 0.94. For primary joints in essential services or post disaster buildings multiply by 0.88.

DESCRIPTION AND PACKAGING

Manufactured from 1.9mm Galvanised G450 Z275 Steel

Description	Product Code	Reference Code	Carton quantity	Carton kg.
40mm Girder Bracket	TA227	HLEFGB40	12	12.1
50mm Girder Bracket	TA228	HLEFGB50	12	12.1
Note:Must order appropriate quantity of Black Tip #14 screws.				
25mm Black Tip #14 Screw (TA233), 65mm Black Tip #14 Screw (TA235),				
100mm Black Tip #14 Screw (TA237)