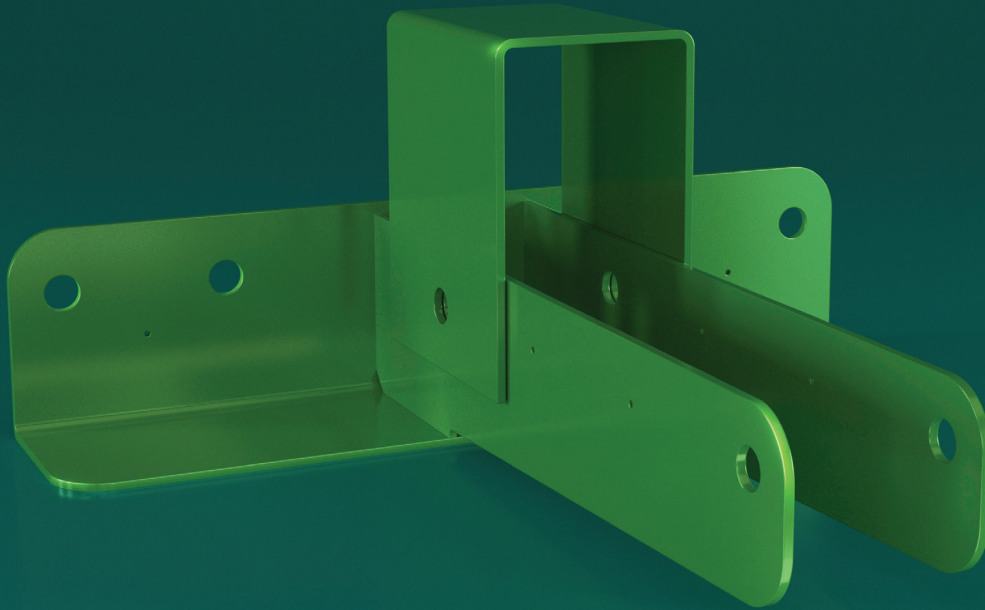


Multinail

Heavy Duty High Load Truss Boots



Steel girder brackets for connecting girder trusses to the bottom chord of primary girder trusses.

Benefits of the Heavy Duty High Load Truss Boots

- Available in various configurations
- Provide large tie down capacities for trusses in high wind uplifting areas
- The extra clip significantly improves the tie down value
- Made in Australia

Installation - One Arm

1. Place the High Load Truss Boot in the correct position and drill holes into the bottom chord of the girder truss to suit the 4/M16 Multinail Hex Head bolts.
2. Align the bolt holes of the High Load Truss Boot to the bolt holes in the girder truss and install the M16 Multinail Hex Head bolts with the correct size washers.
3. Place the supported truss on the bracket and drill holes into the supported truss to suit the 2/M16 Multinail Hex Head bolts.
4. Align the bolt holes of the High Load Truss Boot with the bolt holes in the supported truss and install the M16 Multinail Hex Head bolts with the correct size washers.
5. Place the clip over the supported truss and bolt into position.
6. Neatly insert timber wedge between clip and truss heel to ensure full bearing.
7. Tighten all bolts before loading with roof materials.

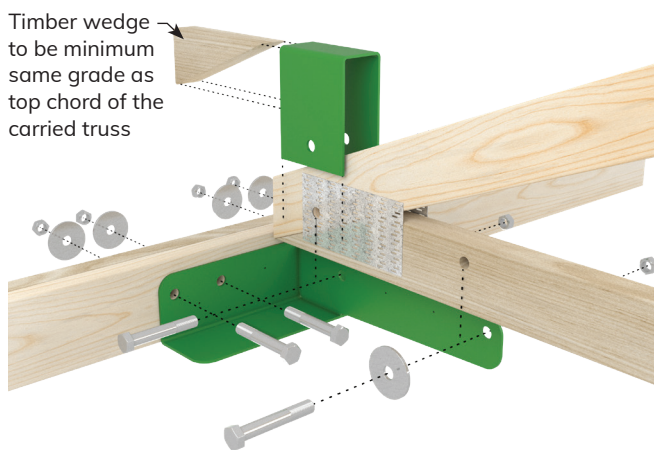


Figure 1: Heave Duty High Load Truss Boot assembly

Notes:

- The supported truss bottom chord may be rebated by 4mm for a length of 96mm for direct fixed ceiling.
- For a better fit, a truss can be designed with a 4mm cutoff.
- Minimum girder bottom chord size is 130mm.
- Temporary bracing is required during installation.
- Minimum end distance for bolts is five (5) times the bolt diameter.
- Bolts and washers to be installed as per AS1720.1-2010.
- Timber wedge to be the minimum same grade as a top chord of the carried truss.

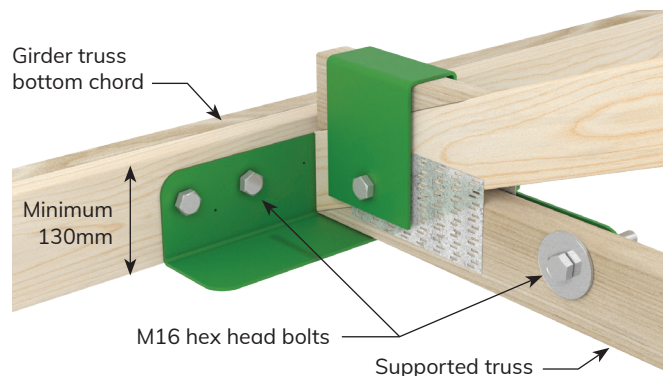


Figure 2: Heavy Duty High Load Truss Boot fully tightened

Installation - Two Arms

1. Place the Heavy Duty High Load Truss Boot in the correct position and drill holes into the bottom chord of the girder truss to suit M16 Multinail Hex Head bolts.
2. Align the bolt holes of the Heavy Duty High Load Truss Boot to the bolt holes in the girder truss and install the M16 Multinail Hex Head bolts with the correct size washers.
3. Place the supported truss on the bracket and drill holes into the supported truss to suit the 2/M16 Multinail Hex Head bolts.
4. Align the bolt holes of the High Load Truss Boot with the bolt holes in the supported truss and install the M16 Multinail Hex Head bolts with the correct size washers.
5. Place the clip over the supported truss and bolt into position.
6. Neatly insert the timber wedge between the clip and the truss heel to ensure full bearing.
7. Tighten all bolts before loading with roof materials.

Notes:

- The supported truss bottom chord may be rebated by 4mm for a length of 96mm for direct fixed ceiling.
- For a better fit, a truss can be designed with a 4mm cutoff.
- Minimum girder bottom chord size is 130mm.
- Temporary bracing is required during installation.
- Minimum end distance for bolts is five (5) times the bolt diameter.
- Bolts and washers to be installed as per AS1720.1-2010.
- Timber wedge to be the minimum same grade as the top chord of the carried truss.

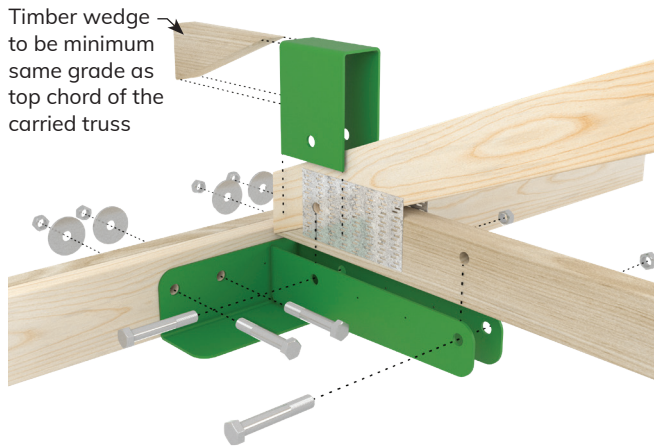


Figure 3: Heave Duty High Load Truss Boot assembly

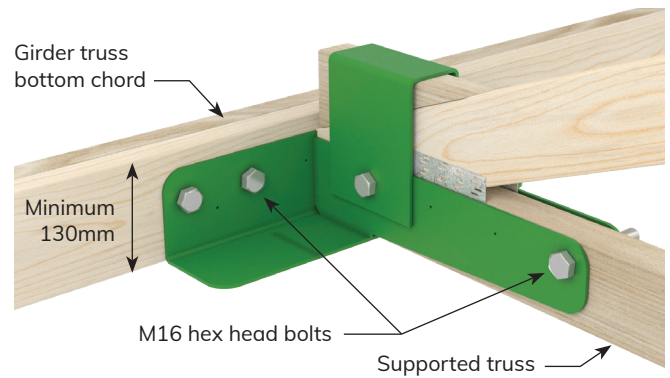


Figure 4: Heavy Duty High Load Truss Boot fully tightened

Limit State Design Loads

Table 1

Timber Joint Group	Girder or Std Truss Thickness	Load Combination Values (kN)		
		Dead Load	Dead Load + Roof Live Load	Dead Load + Wind Load
JD3	35mm	18.4	24.9	36.9
	45mm	23.7	32.0	47.4
	70mm	31.6	42.7	63.2
	90mm	31.6	42.7	63.2
	105mm	31.6	42.7	63.2
	135mm	31.6	42.7	63.2
JD4	35mm	13.6	18.3	27.1
	45mm	17.4	23.6	34.8
	70mm	23.2	31.4	46.5
	90mm	23.2	31.4	46.5
	105mm	23.2	31.4	46.5
	135mm	23.2	31.4	46.5
JD5	35mm	9.8	13.2	19.4
	45mm	12.5	17.0	25.1
	70mm	16.7	22.6	33.4
	90mm	16.7	22.6	33.4
	105mm	16.7	22.6	33.4
	135mm	16.7	22.6	33.4

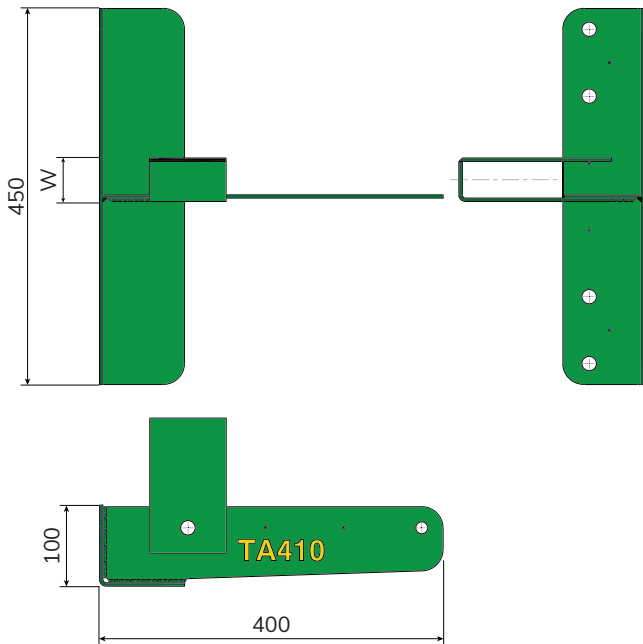
Notes:

- For all other joint group capacities, contact Multinail Australia Pty Ltd
- Limit state design capacities are obtained from laboratory testing and derived from AS1720.1 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

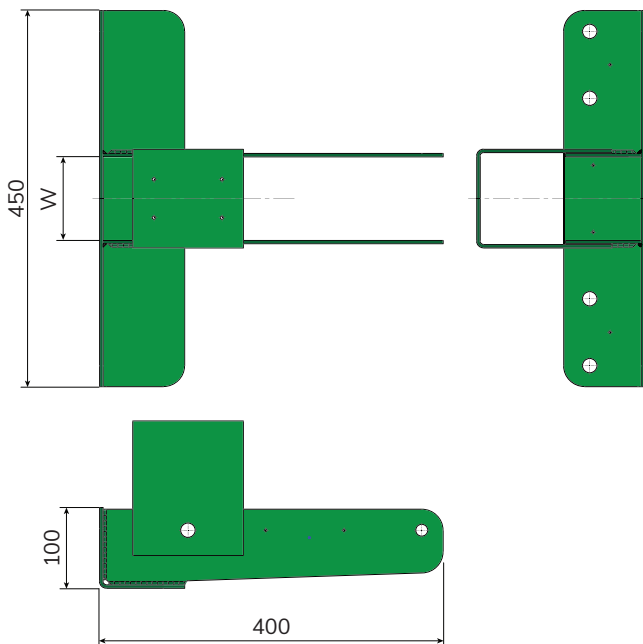
Technical Specifications

Steel Minimum G250 Steel, Powder Coated, 4mm Thickness

TA410



TA411, TA415, TA417, TA421, TA431, TA432



Product Code	W mm
TA410	40
TA411	38
TA415	78
TA417	50
TA421	100
TA431	115
TA432	150

Description and Packing

Product Code	Description	Carton Qty	Pallet Qty	Carton kg.
TA410	40mm - One Arm	1	50	4.9
TA411	38mm - Two Arms	1	50	6.4
TA415	78mm - Two Arms	1	50	6.8
TA417	50mm - Two Arms	1	50	6.7
TA421	100mm - Two Arms	1	50	7.0
TA431	115mm - Two Arms	1	50	6.9
TA432	150mm - Two Arms	1	50	7.2

Fixings

TA114	M16 x 65mm Bolt
TA115	M16 x 100mm Bolt
TA089	M16 x 150mm Bolt





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