

LONG MULTIGRIP

FEATURES AND BENEFITS

FUNCTIONAL: Each of the tabs can bent in or out to suit the application.

STRONG: The longer leg allows both top plates to be engaged, which can optimise top plate design.

VERSATILE: Along with being used as strong tie-down connection, can also be used in numerous right-angle connection applications.

SPECIFICATIONS

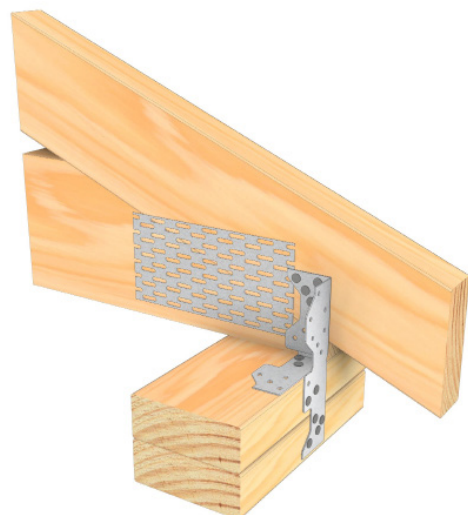
PRODUCT CODE	MPMGL
STEEL	G300
THICKNESS	1.0mm
CORROSION RESISTANCE	Z275
HEIGHT	132mm
WIDTH	37mm
QUANTITY	100
FASTENERS	Pryda 35 x 3.15mm Timber Connector Nails OR Pryda painted hex head 12G x 35mm screws

Designed for when a ribbon/double top-plate is in use to engage the lower top plate.



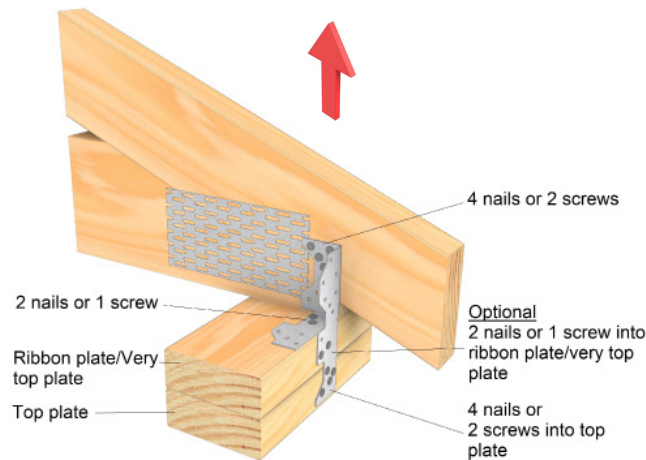
AS1684 COMPLIANT

- Designed and tested in accordance with Australian standards (AS1649)
- Minimum G300 Z275 Galvanised Steel



DESIGN CAPACITIES

LOAD DIRECTION 1

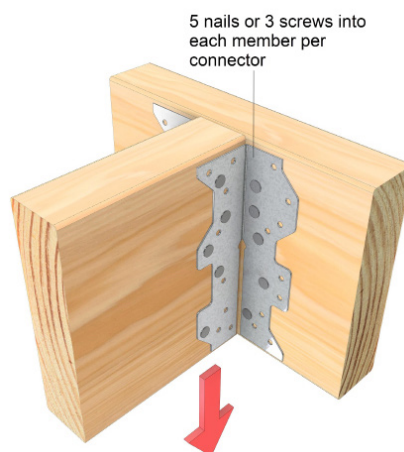


LOAD CASE	DESIGN CAPACITY Φ_{NJ} (KN) FOR A SINGLE MULTIGRIP FOR TIMBER JOINT GROUP		
	JD5	JD4	JD3
Wind Uplift	3.2	3.8	4.2

Notes:

1. The above capacities apply directly to Category 1 connections. For all other connections, ie. Category 2 or 3 multiply these capacities by 0.94 or 0.88 respectively, as per AS1720.1:2010.
2. Refer to Pryda's Connectors & Tie-down Design Guide available at pryda.com.au for description of load cases and joint groups
3. If used as a pair with one Multigrip on each side, capacities may be double.

LOAD DIRECTION 2 (ALWAYS USE AS PAIRS)

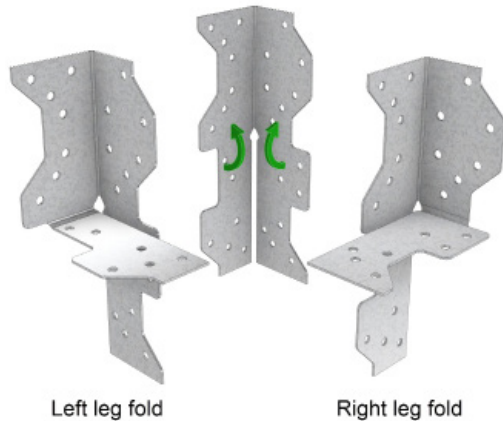


LOAD CASE	DESIGN CAPACITY Φ_{NJ} (KN) FOR A PAIR OF LONG MULTIGRIPS FOR TIMBER JOINT GROUP		
	JD5	JD4	JD3
1.35G	2.7	3.2	4.5
1.2G + 1.5Qr	3.6	4.3	6.1
1.2G + Wd or Wind Uplift	5.4	6.4	9

INSTALLATION

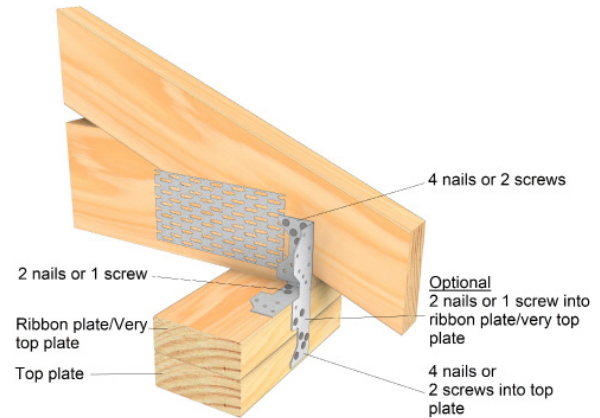
TRUSS TIE DOWN CONNECTION TO SUPPORT

STEP 1



- Determine which leg of the Long Multigrip is required to be bent and do so at a 90° angle
- Ensure the bends are neat, tight, and firm against the timber before fixing into position

STEP 2



- Fix the Long Multigrrips using Pryda Timber Connector Nails 35 x 3.15mm or Pryda painted hex head 12G x 35mm screws
- Ensure the correct number of nails/screws are used per leg of the Long Multigrip as per the image above

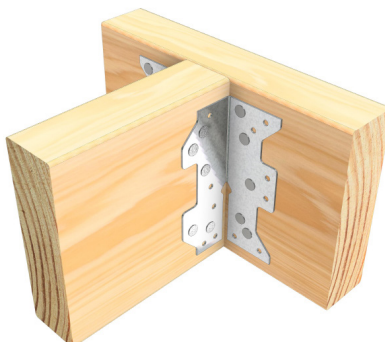
BEAM TO BEAM OR TRUSS TO TRUSS CONNECTION

STEP 1



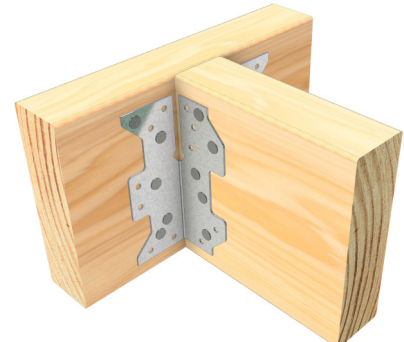
- Position the supported beam to supporting beam, ensuring both beams are vertically plumb, and all edges are aligned.

STEP 2



- Position a pair of Multigrrips at right angles on either side of the supported beam. Fix each Multigrip to each timber member with 5x3.15x35 Pryda Connector nails or 3 x No.12x35mm Pryda painted hex head screws.

STEP 3



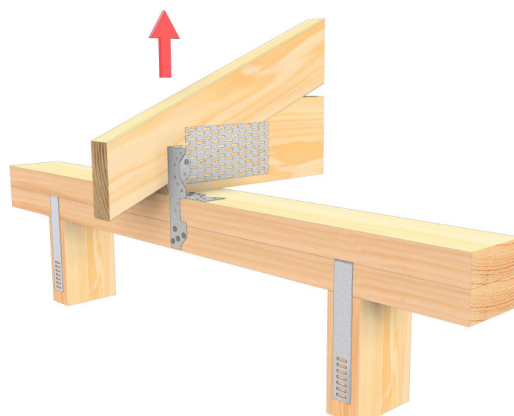
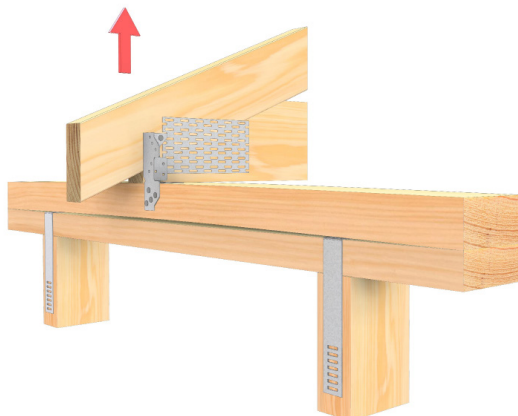
- Repeat same fixing method to adjacent Multigrip. Note orientation of each Multigrip and connection must be installed in PAIRS.

IMPORTANT:

READ THIS DATASHEET IN CONJUNCTION WITH PRYDA CONNECTORS & TIE-DOWN CONNECTORS DESIGN GUIDE AND REFER TO ESSENTIAL NOTES AND GENERAL NOTES.

INSTALLATION

RIBBON / DOUBLE TOP PLATE GUIDE



- If the Ribbon plate is not adequately fixed to the lower top plate, it will not be able to contribute to resisting uplift
- Nail lamination of the ribbon plate to the lower top plate is typically insufficient to resist these loads
- In this example, if the ribbon plate is not sufficiently tied down to the lower top plate it can de-laminate resulting in the trusses lifting off the building
- This example illustrates how the longer leg (MPMGL), can engage both top plates

FASTENING LONG MULTIGRIPS

BUILD WITH CONFIDENCE

WHERE POSSIBLE, HAND NAILING WITH PRYDA TIMBER CONNECTOR NAILS IS ALWAYS PREFERRED, WHY?

- Pryda Timber Connector Nails are forged in one piece, unlike clouts that are two pieces soldered together, meaning the head can pop off
- Pryda Nails are the correct diameter, ensuring a tight fit in prepunched holes = a stronger connection
- Design values and testing have all been conducted using Pryda Timber Connector Nails
- Hand hammered nails ensure correct nail positioning and drive depth (not driven too shallow or too deep)

MACHINE DRIVEN NAILS ARE NOT RECOMMENDED FOR FIXING LONG MULTIGRIPS, MULTIGRIPS AND MINIGRIPS.



LOOKING FOR MORE DETAILS OR OTHER CONNECTORS IN OUR RANGE?

SEE OUR CONNECTORS & TIE-DOWN CONNECTORS DESIGN GUIDE AVAILABLE AT [PRYDA.COM.AU](https://www.pryda.com.au)