PRODUCT DATA SHEET

NZ MULTIGRIPS

Multi-purpose metal connectors for timber construction.

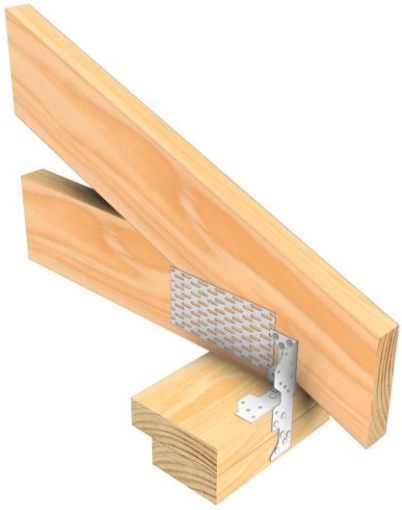
CodeMark CMNZ-10029

FEATURES AND BENEFITS

SIMPLE: Each of the tabs can bent in or out to 90° or other angles to suit the application.

FAST: Suitable for high load applications such as a tie-down connector. Along with being used as a strong tie-down connection, can also be used in numerous right-angle connection applications.

DURABLE: 1mm thick G300 Z275 or Stainless Steel 304.



SPECIFICATIONS

PRODUCT CODE	MPMG, MG/S, MPMGL
STEEL	G300
THICKNESS	1mm
CORROSION RESISTANCE	Z275 or Stainless Steel 304
FASTENERS REQUIRED	Pryda 35 x 3.15mm Timber Connector Nails OR Pryda 12G x 35mm Timber Connector Screws – Painted Red Head Ensure the corrosion resistance of the fastener matches the product, i.e., galvanised nails for a galvanised bracket or stainless nails for a stainless bracket
HEIGHT	100mm, 132mm
WIDTH	37mmx37mm

MPMG, MG/S

MPMGL

*All dimensions shown are in “mm”.

One Multigrip fits all applications, no left, and right required. Bending slots ensure accurate bends on site. Ideal for fixing Rafters and trusses to top plate.

At the time of print, this product is NOT subject to any known warnings and bans found in Building Act 2004.

MULTIGRIPS

PRODUCT CODE	MATERIAL	SIZE	QUANTITY
MPMG	G300 Z275 Galvanised Steel	100 x 37 x 37mm	100
MG/S	Stainless Steel 304	100 x 37 x 37mm	20
MPMGL	G300 Z275 Galvanised Steel	132 x 37 x 37mm	100

DURABILITY

The following table provides an easy guide when selecting a Pryda product corrosion protection finish that will meet and exceeds NZS 3604:2011 Table 4.1.

<table>
<tr><th>ZONE</th><th colspan="2">LOCATION</th><th>ENVIRONMENT</th><th>PRODUCT</th></tr>
<tr><td>All Zones</td><td colspan="2">Fully enclosed walls, floors, and roof spaces</td><td>Closed</td><td>Pryda Zinc Coated Products Z275</td></tr>
<tr><td rowspan="5">Zones B and C</td><td rowspan="2">All subfloor fastenings more than 600mm above the ground</td><td>Vented 7000mm^2/m^2 or LESS</td><td>Sheltered</td><td>Pryda Stainless Steel 304 Products (3)</td></tr>
<tr><td>Vented MORE than 7000mm^2/m^2</td><td>Exposed</td><td>Pryda Stainless Steel 304 Products (3)</td></tr>
<tr><td>All subfloor fastenings within 600mm of the ground</td><td colspan="2">Sheltered and Exposed</td><td>Pryda Stainless Steel 304 Products (3)</td></tr>
<tr><td rowspan="2">All other structural fixings</td><td colspan="2">Sheltered</td><td>Pryda Stainless Steel 304 Products (3)</td></tr>
<tr><td colspan="2">Exposed</td><td>Pryda Stainless Steel 304 Products (3)</td></tr>
<tr><td>Zone D</td><td>All structural fixings</td><td colspan="2">Sheltered and Exposed</td><td>Pryda Stainless Steel 304 Products (3)</td></tr>
</table>

Notes:
1.All Pryda galvanised products comply with NZS3604:2011 Table 4.2.
2.Refer to NZS3604:2011 for all environment definitions.
3.Routine inspection and cleaning using soap and fresh warm water is an integral part of the ongoing care and maintenance of stainless steel to preserve its appearance.

STORAGE AND HANDLING

Prior to use, the Pryda products shall be stored in a weatherproof environment and protected from moisture. Care must be taken to avoid any damage to the surface of the product protective galvanised coating and profile that may impact the performance.

COMPLIES WITH THE FOLLOWING PROVISIONS OF THE NEW ZEALAND BUILDING CODE (NZBC)

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. Loads arising from self-weight, imposed gravity loads arising from use, earthquake, snow, and wind. (i.e., B1.3.3 (a), (b), (f), (g), and (h)). Only some may apply for a specific use of the component.

Clause B2 DURABILITY: Performance B2.3.1 (a) not less than 50 years and B2.3.2.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

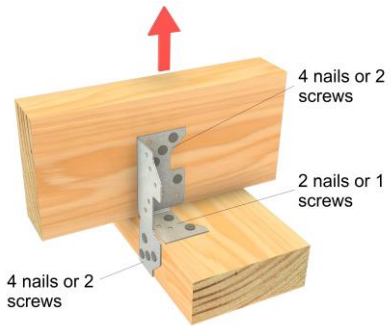
APPLICATION AND SCOPE OF USE

Pryda Multigrips can serve a multitude of tie-down needs due to its ability to have either left or right leg fold to suit on-site connection setup. It can also be used as a light duty support cleat when used in PAIRS.

Pryda Multigrips are certified when used and installed in accordance with the product datasheet shown connection details. Pryda fasteners approved for the installation form an integral part of the connection and therefore should be used with all Pryda products installation unless otherwise approved by a certified structural Engineer. Only use the product for its intended applications and the selected product material type within the specified environmental condition as outlined in NZS 3604:2011 Table 4.1. (Refer to Durability section for more details). Fastener material type shall match the selected Pryda product. i.e., Galvanised fasteners with galvanised products. Stainless Steel fasteners with stainless steel products.

MPMG DESIGN CAPACITIES AND APPLICATIONS

MPMG, MG/S, LOAD DIRECTION 1

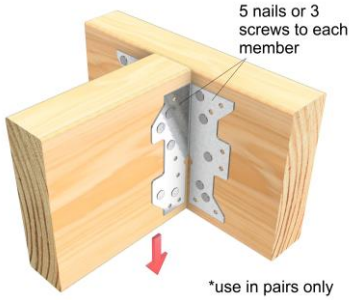


MPMG, MG/S LOAD DIRECTION 1

LOAD CASE	DESIGN CAPACITY ΦNJ (kN) FOR A SINGLE MULTIGRIP FOR TIMBER JOINT GROUP
	JD5
1.2G + Wd or Wind Uplift	2.7

Notes:
1.Design values are based on SG8 timber and for timber which meets minimum JD5 timber as defined in AS/NZS 1720.
2.Limit State Design capacities are shown in table to resist Wind Uplift.

MPMG LOAD DIRECTION 2 (ALWAYS USE AS PAIRS)



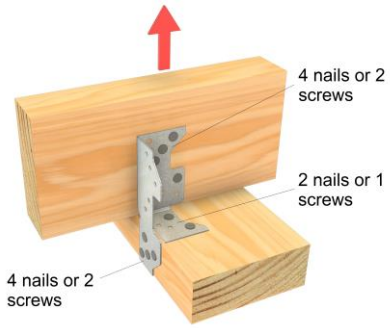
MPMG LOAD DIRECTION 2

LOAD CASE	DESIGN CAPACITY ΦNJ (KN) FOR A PAIR OF MULTIGRIPS FOR TIMBER JOINT GROUP
	JD5
1.35G	4.6
1.2G + 1.5Qr	6.2
1.2G + Wd or Wind Uplift	9.1

Notes:
1.Design values are based on SG8 timber and for timber which meets minimum JD5 timber as defined in AS/NZS 1720.
2.Limit State Design capacities are shown in table to resist Wind Uplift.

MG/S DESIGN CAPACITIES AND APPLICATIONS

MG/S LOAD DIRECTION 1

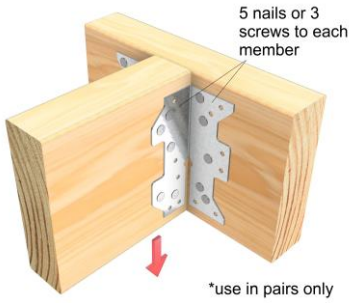


MPMG, MG/S LOAD DIRECTION 1

LOAD CASE	DESIGN CAPACITY ΦNJ (kN) FOR A SINGLE MULTIGRIP FOR TIMBER JOINT GROUP
	JD5
1.2G + Wd or Wind Uplift	2.7

Notes:
1.Design values are based on SG8 timber and for timber which meets minimum JD5 timber as defined in AS/NZS 1720.
2.Limit State Design capacities are shown in table to resist Wind Uplift.

MG/S LOAD DIRECTION 2 (ALWAYS USE AS PAIRS)



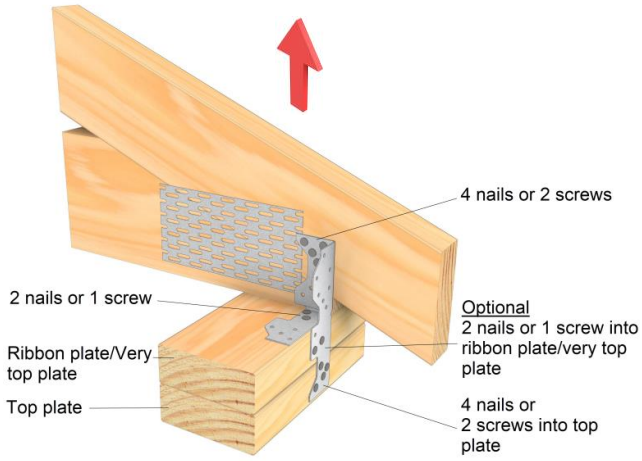
MG/S LOAD DIRECTION 2

LOAD CASE	DESIGN CAPACITY ΦNJ (KN) FOR A PAIR OF MULTIGRIPS FOR TIMBER JOINT GROUP
	JD5
1.35G	3.1
1.2G + 1.5Qr	4.2
1.2G + Wd or Wind Uplift	6.1

Notes:
1.Design values are based on SG8 timber and for timber which meets minimum JD5 timber as defined in AS/NZS 1720.
2.Limit State Design capacities are shown in table to resist Wind Uplift.

MPMGL DESIGN CAPACITIES AND APPLICATIONS

MPMGL LOAD DIRECTION 1

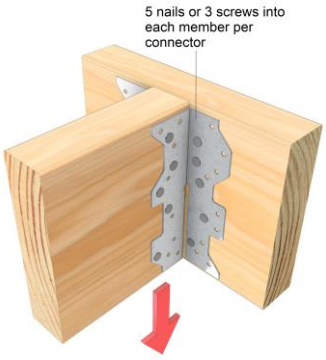


MPMGL LOAD DIRECTION 1

LOAD CASE	DESIGN CAPACITY ΦNJ (kN) FOR A SINGLE MULTIGRIP FOR TIMBER JOINT GROUP
	JD5
1.2G + Wd or Wind Uplift	4.6

Notes:
1.Design values are based on SG8 timber and for timber which meets minimum JD5 timber as defined in AS/NZS 1720.
2.Limit State Design capacities are shown in table to resist Wind Uplift.

MPMGL LOAD DIRECTION 2 (ALWAYS USE AS PAIRS)



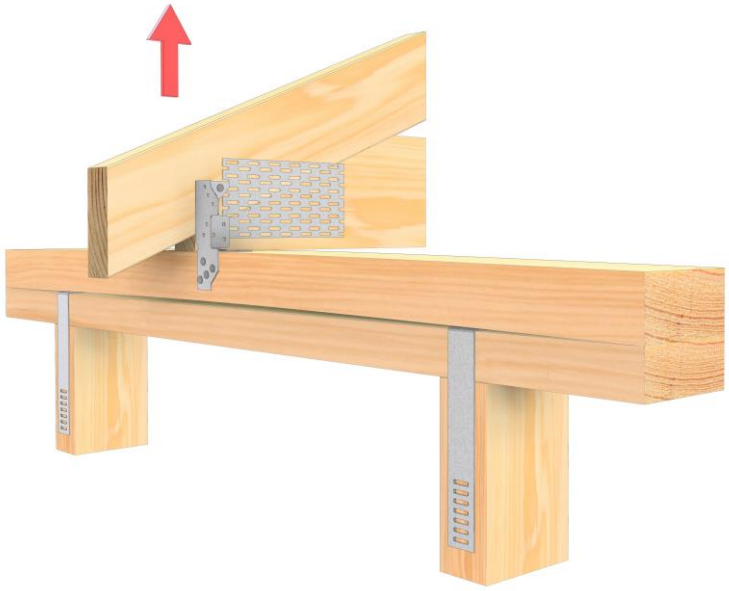
MPMGL LOAD DIRECTION 2

LOAD CASE	DESIGN CAPACITY ΦNJ (KN) FOR A PAIR OF MULTIGRIPS FOR TIMBER JOINT GROUP
	JD5
1.35G	3.5
1.2G + 1.5Qr	4.7
1.2G + Wd or Wind Uplift	6.9

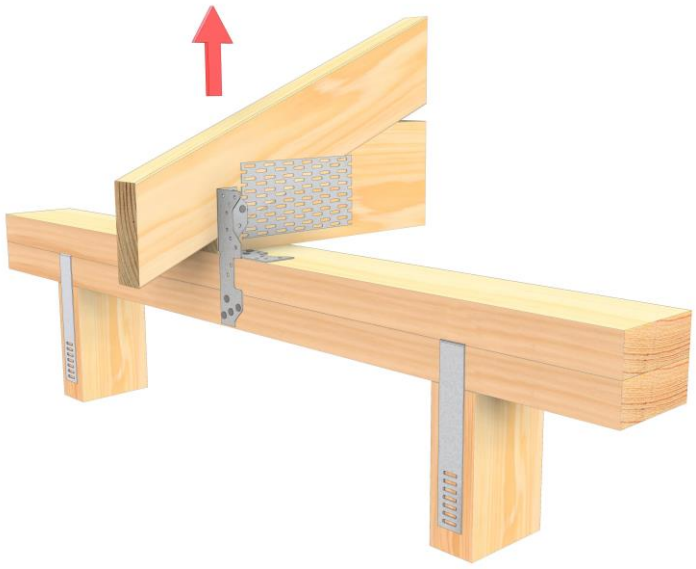
Notes:
1.Design values are based on SG8 timber and for timber which meets minimum JD5 timber as defined in AS/NZS 1720.
2.Limit State Design capacities are shown in table to resist Wind Uplift.

RIBBON/ DOUBLE TOP PLATE GUIDE

Ribbon/double top plates are required to be tied down if they are designed to resist wind uplift.
Standard Multigrips or Triple Grips do not have the required length to cover both the top plate and ribbon plate.



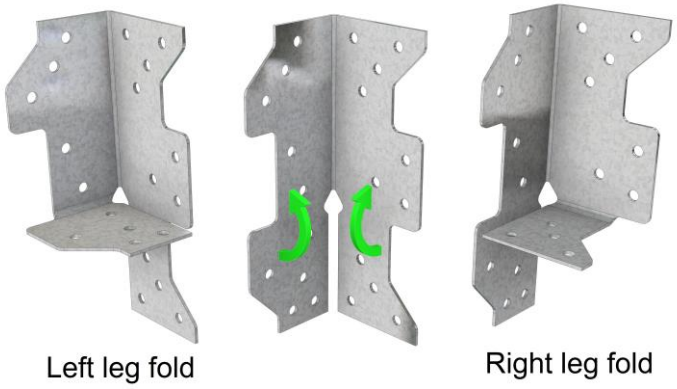
- If the Ribbon plate is not adequately fixed to the lower top plate, it will not be able to contribute to resisting uplift.
- Nail lamination of the ribbon plateto the lower top plate is typically insufficient to resist these loads.
- In this example, if the ribbon plate is not sufficiently tied down to the lowertop 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.

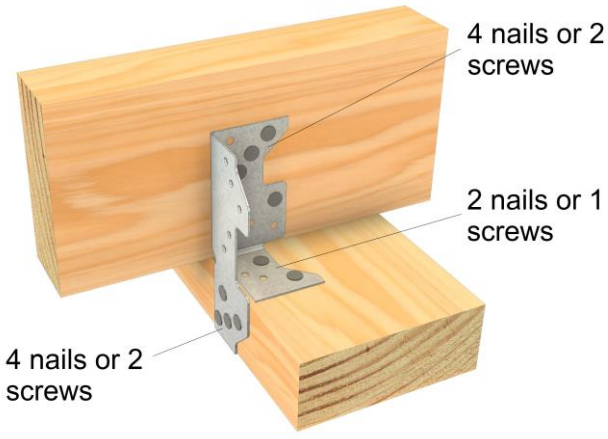
MPMG, MG/S INSTALLATION FOR TRUSS TIE DOWN CONNECTION TO SUPPORT

STEP 1



- Determine which leg of the Multigrip is required to be bent and do so at a 90° angle.
- Ensure the bend line is straight, tight, and firm against both vertical and horizontal timber before fixing into position.

STEP 2



- Fix the Multigrips using Pryda 35 x 3.15mmTimber Connector Nails or Pryda 12G x 35mm Timber Connector screws – painted red head.
- Ensure the correct number of nails or screws are usedper leg of the Multigrip as per the image above.

MPMG, MG/S INSTALLATION FOR 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

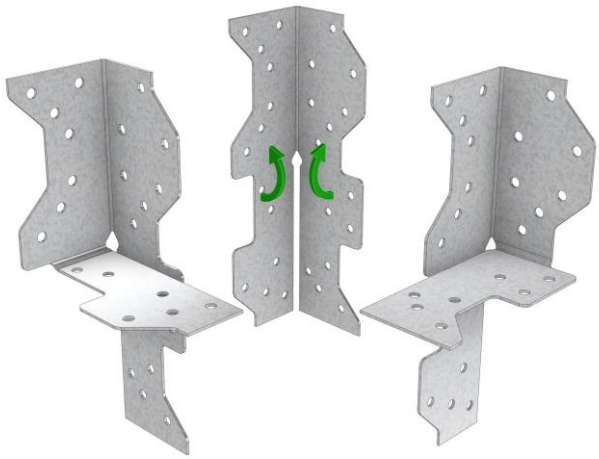
- Position a pair of Multigrips at right angles on either side of the support beam.
  Fix each Multigrip to each timber member with 5 x Pryda 35 x 3.15mm Timber Connector Nails or
  3 x Pryda 12G x 35mm Timber Connector Screws - painted red head.

STEP 3

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

MPMGL INSTALLATION FOR TRUSS TIE DOWN CONNECTION TO SUPPORT

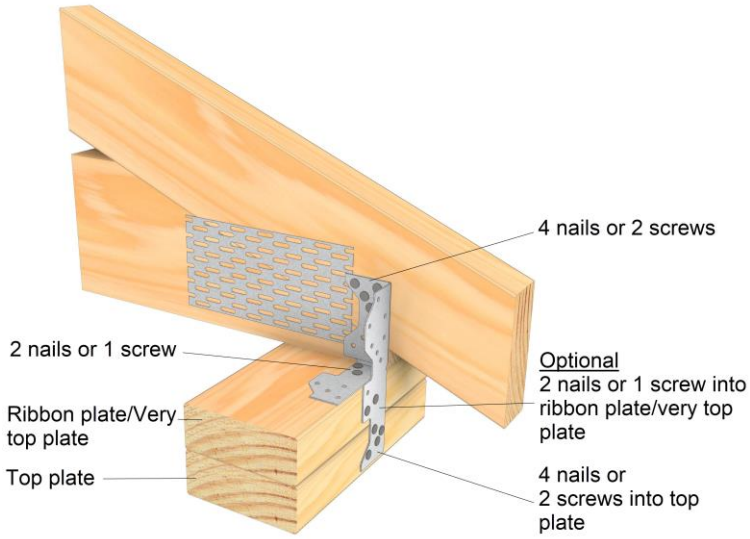
STEP 1



Left leg fold Right leg fold

- Determine which leg of the Multigrip is required to be bent and do so at a 90° angle.
- Ensure the bend line is straight, tight, and firm against both vertical and horizontal timber before fixing into position.

STEP 2



- Fix the Multigrips using Pryda 35 x 3.15mmTimber Connector Nails or Pryda 12G x 35mm Timber Connector Screws - painted red head.
- Ensure the correct number of nails or screws are used per leg of the Multigrip as per the image above.

MPMGL INSTALLATION FOR 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 Long Multigrips at right angles on either side of the support beam.
- Fix each Long Multigrip to each timber member with 5 x Pryda 35 x 3.15mm Timber Connector Nails or 3 x Pryda 12G x 35mm Timber Connector Screws -painted red head.

STEP 3

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

FASTENING 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 pre-punched holes = a stronger connection.
- Design values and testing have all been conductedusing Pryda Timber Connector Nails.
- Hand hammered nails ensure correct nail positioningand drive depth (not driven too shallow or too deep).

Machine driven nails are not recommended for fixing Long Multigrip (MPMGL) and Multigrip (MPMG, MG/S)

Contact details		Contact details	
Manufacture location	Overseas	Manufacture location	New Zealand
Legal and trading name of manufacturer	Pryda Australia -a Division of ITW Australia PTY LTD	Legal and trading name of manufacturer	Fairfit Engineering
Legal and trading name of importer	Pryda New Zealand -a Division of ITW New Zealand	Legal and trading name of supplier	Pryda New Zealand -a Division of ITW New Zealand
Importer address for service	23-29 Poland Road, Wairau Valley, Auckland, 0627, New Zealand	Supplier address for service	23-29 Poland Road, Wairau Valley, Auckland, 0627, New Zealand
Importer website	Pryda.co.nz	Supplier website	Pryda.co.nz
Importer email	info@prydaanz.com	Supplier email	info@prydaanz.com
Importer phone number	0800 88 22 44	Supplier phone number	0800 88 22 44
Importer NZBN	9429039833129	Supplier NZBN	9429039833129
Product Skus	MPMG, MPMGL	Product Skus	MG/S