

NZ HEAVY DUTY JOIST HANGERS

CodeMark

CMNZ-10030

Heavy duty hanger for higher load applications.

FEATURES AND BENEFITS

SIMPLE: Preformed to common high-capacity timber sizes including two-ply trusses.

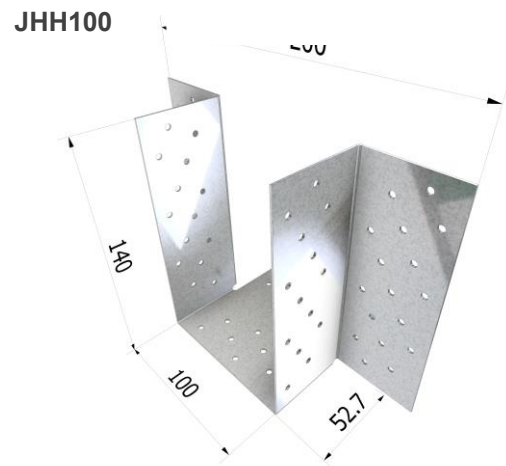
FAST: Can be fastened with Pryda 12G x 35mm Timber Connector Screws or Pryda 35 x 3.15mm Timber Connector Nails.

DURABLE: 1.2mm thick G300 Z275 galvanised steel. Engineered to resist gravity loads **and** wind uplift loads.

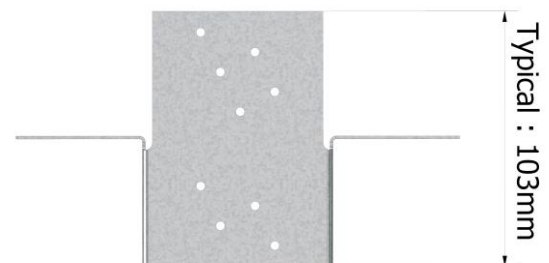
*JHH100 – The tongue to the underside of the supporting beam provides added resistance to lateral rotation. JHSS does not have this tongue extension but has greater depth coverage.

SPECIFICATIONS

PRODUCT CODE	JHH100 – Heavy Duty Hanger JHSS212, JHSS275 – Heavy Duty Split Hanger
STEEL	G300
THICKNESS	1.2mm (JHH100), 1.8mm (JHSS212, JHSS275)
CORROSION RESISTANCE	Z275
FASTENERS	Pryda 35 x 3.15mm Timber Connector Nails OR Pryda 12G x 35mm Timber Connector Screws – painted red head.
HEIGHTS	JHH100 =140mm, JHSS212=218mm, JHSS275=281mm
WIDTHS	JHH100=95mm, *JHSS212 , *JHSS275 (*Variable width)



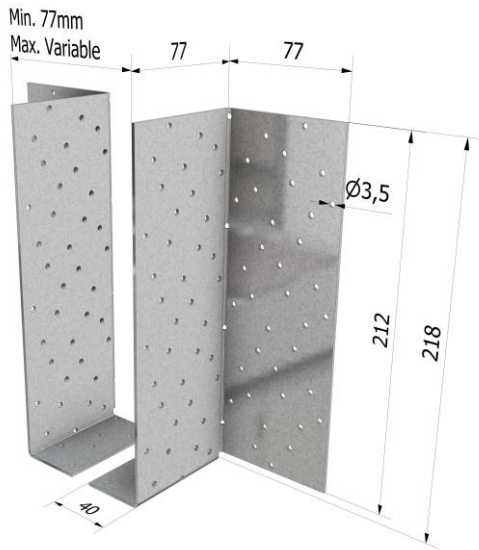
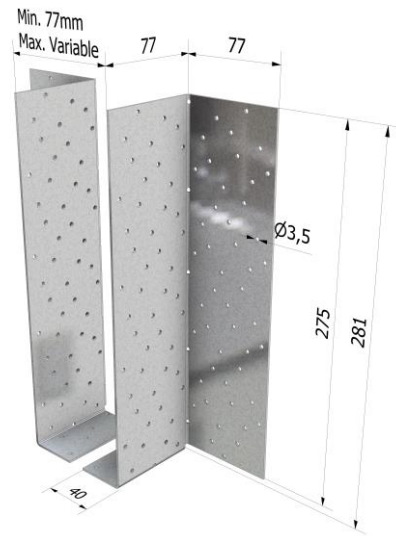
The internal dimension of the JHH100 hanger is only 95mm, specially designed to cater for 2/45 thick beams, joists, trusses or 90mm wide floor trusses or equivalent.



JHH100 : Top View showing bottom tongue extension.

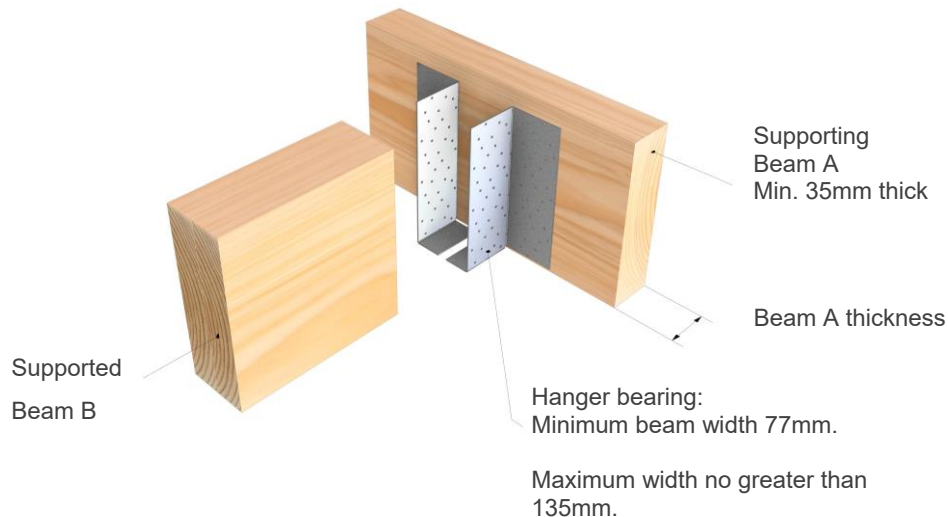
*All dimensions shown in “mm”.

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

JHSS212**JHSS275****FACE MOUNT HANGER**

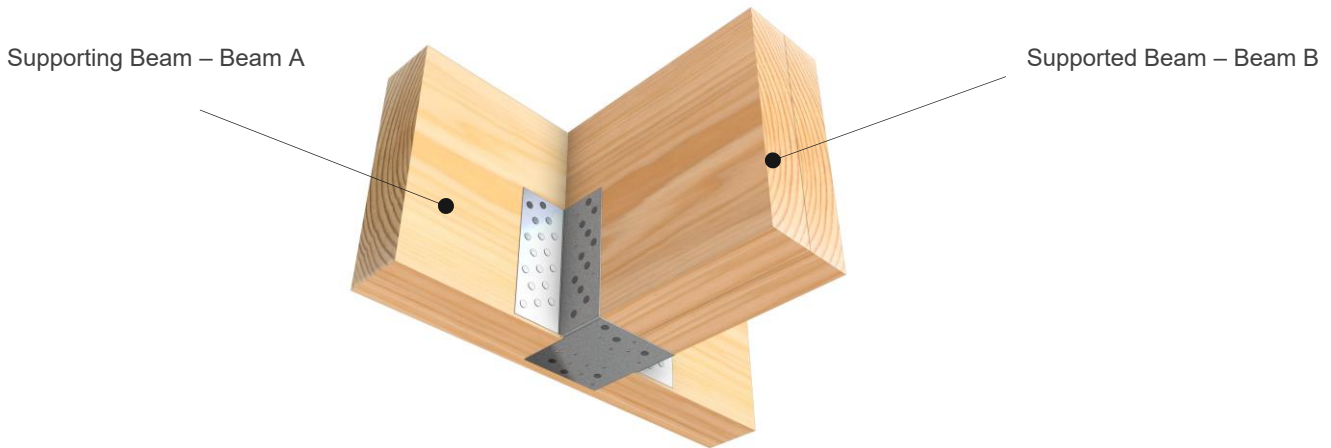
PRODUCT CODE	MATERIAL	HEIGHT	WIDTH	QTY
JHH100	G300, Z275 Galvanised Steel	140	95	10
JHSS212		218	*Variable	1 (PAIR)
JHSS275		281	*Variable	1 (PAIR)

Notes: *Variable having a minimum width of 77mm between left and right halves of JHSS bracket. JHSS brackets must be installed with both halves. Recommended maximum beam width not to exceed 135mm.

CONNECTION DEFINITION

- JHSS supports variable widths. Width should be limited by the designer to prevent eccentric loading on the bracket.
- Multi-laminated timber must be laminated sufficiently by the designer and not rely on the support bracket for this purpose.
- Unless the top of the supported beam is provided with additional lateral restraints, the bracket must cover at least 60% of the depth of the supported beam.

DESIGN CAPACITY- LIMIT STATE DESIGN

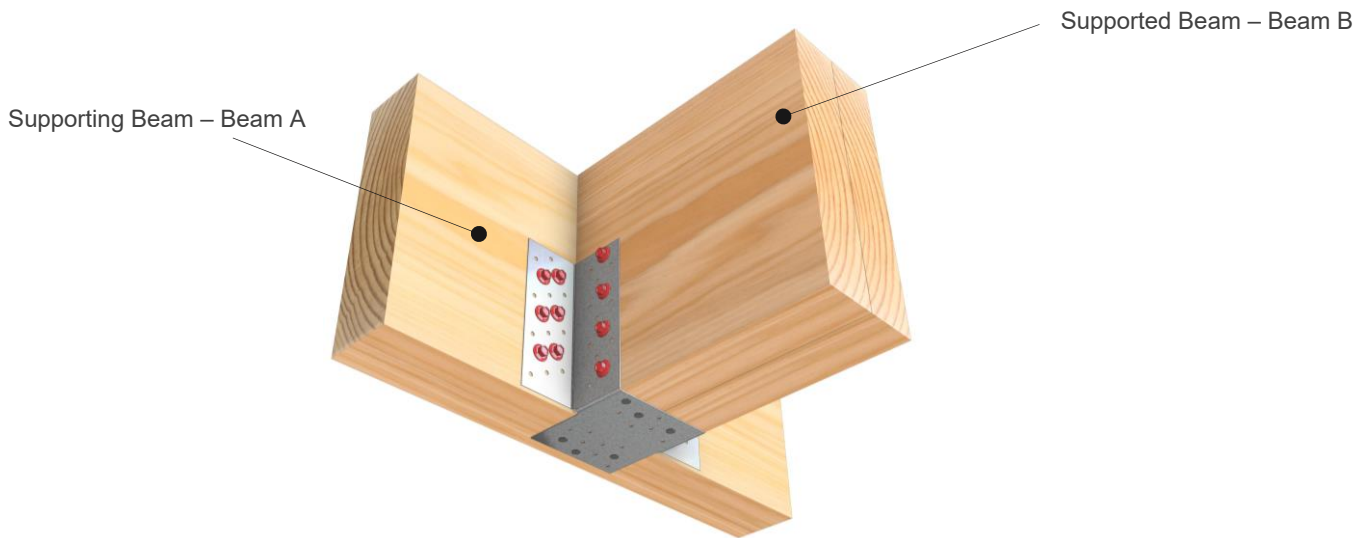


Nail Fixing – Pryda 35 x 3.15mm Timber Connector Nails (OSNGB)

LOAD CASE	DESIGN CAPACITIES (Φ_{Nj}) IN kN	
	OPTION 1	OPTION 2
	30 NAILS TO BEAM A 18 NAILS* TO BEAM B JD5	34 NAILS TO BEAM A 22 NAILS* TO BEAM B JD5
1.35G	6.7	8.2
1.2G + 1.5Qf	8.1	9.9
1.2G + 1.5Qr	9	11.1
1.2G + Wd or Wind Uplift	13.4	16.4

Notes:

- Beam A = Supporting Beam, Beam B = Supported Beam.
- Design capacities applies for dry (maximum moisture content of 18%) Radiata Pine and Douglas Fir timber grade SG8 and for timber which meets JD5 timber as defined in AS/NZS 1720.
- Multiple Laminated Supporting Beams** – Fasteners with longer lengths are required when JHH brackets are fixed into a multiple laminated supporting beam. For double laminates, use 65mm long nails. Alternatively, for double or triple laminated supporting beams, additional fixings may be provided at hanger locations to laminate plies. Seek advice from the beam design Engineer.
- Pryda CODEMARK certificate CMNZ10030 certifies Pryda Heavy Duty Joist Hanger (JHH100, JHSS212, and JHSS275) with use of NZ Pryda Timber Connector Nails. Other fixing methods are outside the scope of the CODEMARK.
- Beams must be at least 140mm deep.** For beams of lesser depths, the tabulated capacities may be adjusted by a factor equal to the ratio of the number of effective fasteners by the number of fasteners tabulated above. Unless the top of the supported beam is provided with additional lateral restraints, the bracket must cover at least 60% of the depth of the supported beam.
- Locate bracket away from supporting beam end-cut.** Sufficient end distance shall be kept away from supporting beam end-cut. Seek Engineering approval from beam designer if in doubt or consult your project Engineer for further advice.



Screw Fixing – Pryda 12G x 35mm Timber Connector Screws (TCS12-35)

LOAD CASE	DESIGN CAPACITIES (ΦN_j) IN kN	
	OPTION 1 12 SCREWS TO BEAM A 8 SCREWS TO BEAM B	OPTION 2 20 SCREWS TO BEAM A 16 SCREWS TO BEAM B
	JD5	JD5
1.35G	6.6	13.2
1.2G + 1.5Qf	8	16
1.2G + 1.5Qr	8.9	17.8
1.2G + Wd or Wind Uplift	13.2	26.4

Notes:

1. Beam A = Supporting Beam, Beam B = Supported Beam.
2. **Wind capacities** -Limiting capacity of the hangers = 30.0 kN
3. Design capacities applies for dry (maximum moisture content of 18%) Radiata Pine and Douglas Fir timber grade SG8 and for timber which meets JD5 timber as defined in AS/NZS 1720.
4. **Multiple Laminated Supporting Beams** - Fasteners with longer lengths are required when JHH brackets are fixed into a multiple laminated supporting beam. For double laminates, use 65mm long screws. Alternatively, for double or triple laminated supporting beams, additional fixings may be provided at hanger locations to laminate plies. Seek advice from the beam design Engineer.
5. Pryda CODEMARK certificate CMNZ10030 certifies Pryda Heavy Duty Joist Hanger (JHH100, JHSS212, and JHSS275) with use of NZ Pryda Timber Connector Screws. Other fixing methods are outside the scope of the CODEMARK.
6. **Beams must be at least 140mm deep.** For beams of lesser depths, the tabulated capacities may be adjusted by a factor equal to the ratio of the number of effective fasteners by the number of fasteners tabulated above. Unless the top of the supported beam is provided with additional lateral restraints, the bracket must cover at least 60% of the depth of the supported beam.
7. **Locate bracket away from supporting beam end.** Sufficient end distance shall be kept away from supporting beam end-cut. Seek Engineering approval from beam designer if in doubt or consult your project Engineer for further advice.

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.

Pryda Heavy Duty Joist Hangers are only available in Z275, therefore suitable for “Closed” environment.

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

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 Heavy Duty Joist Hangers (JHH, JHSS) 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).

- Wide joist support
- Truss Support
- Double Joist
- Beam to beam
- I-Joist support

NZ HEAVY DUTY JOIST HANGER DATA SHEET

Contact details		Contact details	
Manufacture location	New Zealand	Manufacture location	New Zealand
Legal and trading name of manufacturer	QC Engineering	Legal and trading name of manufacturer	Kimberly Tool & Design (NZ) Limited
Legal and trading name of supplier	Pryda New Zealand -a Division of ITW New Zealand	Legal and trading name of supplier	Pryda New Zealand -a Division of ITW New Zealand
Supplier 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
Supplier website	Pryda.co.nz	Supplier website	Pryda.co.nz
Supplier email	info@prydaanz.com	Supplier email	info@prydaanz.com
Supplier phone number	0800 88 22 44	Supplier phone number	0800 88 22 44
Supplier NZBN	9429039833129	Supplier NZBN	9429039833129
Product Skus	JHH100	Product Skus	JHSS212, JHSS275