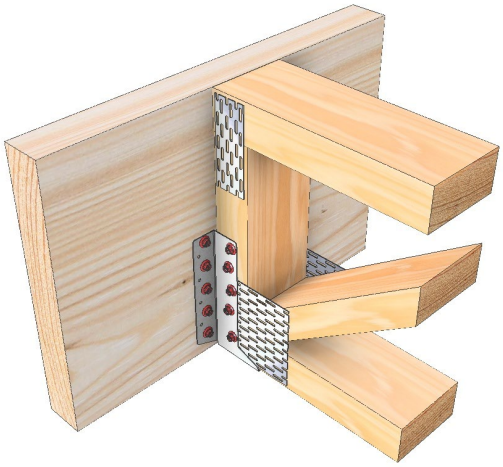
PRODUCT DATA SHEET

NZ PRYDA FRAMING BRACKET FOR FLOOR TRUSSES

Simple means of connecting two members at 90° that provides resistance to gravity and uplift loads specifically designed for floor trusses.



FEATURES AND BENEFITS

SIMPLE: Can be installed without needing to create special housings or high skill timber joints.

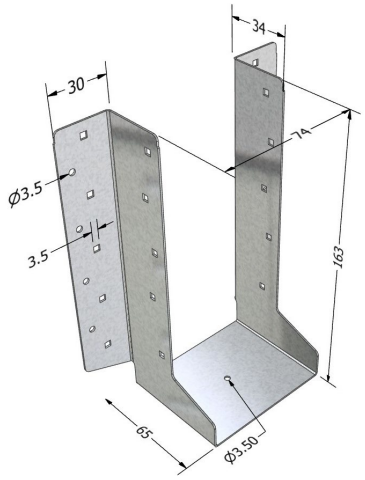
FAST: Can be fastened with Pryda Timber Connector screws.

DURABLE: 1.0mm thick galvanised steel engineered to resist gravity loads **and** wind uplift loads.

SPECIFICATIONS

PRODUCT CODE	FBF(W)(D) * (See table for available sizes)
STEEL	G300
THICKNESS	1mm
CORROSION RESISTANCE	Z275
FASTENERS	35 x 3.15mm Pryda Timber Connector Nail OR 12G x 35mm Pryda Timber Connector Screw OR 12G x 65mm Pryda Timber Connector Screw
HEIGHTS	153mm and 163mm
WIDTHS	74mm and 94mm

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



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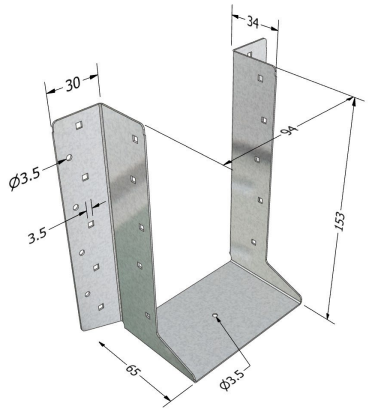

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*All dimensions shown in “mm.”

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 Framing Bracket for Floor Trusses is 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)

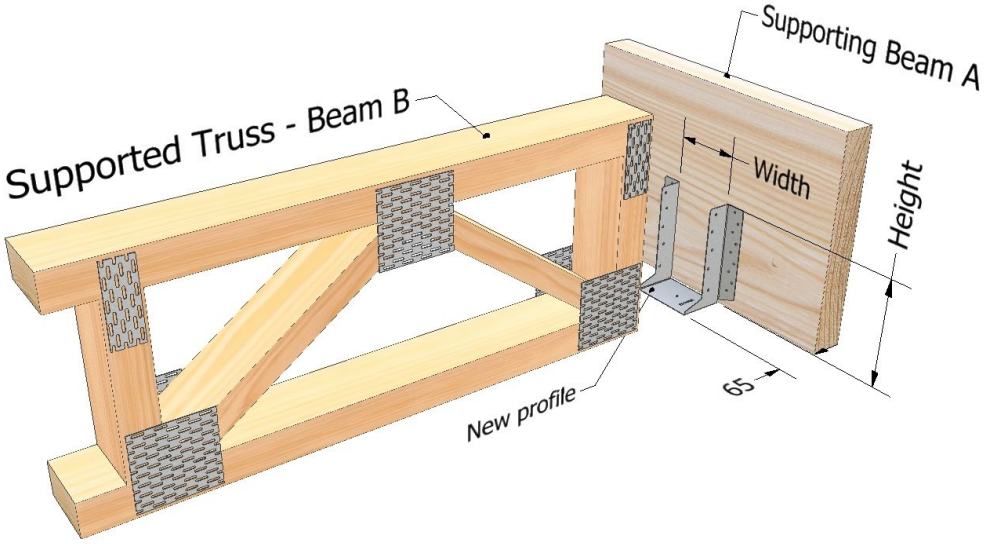
Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. Loads arising from self-weight, imposed gravity loads arising from use, earthquake, snow, and wind. (i.e., B1.3.3 (a), (b), (f), (g), and (h)). Only some may apply for a specific use of the component.

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.

FRAMING BRACKETS – FLOOR TRUSS RANGE, NEW PROFILE

PRODUCT CODE	MATERIAL	WIDTH	HEIGHT	SUITABLE APPLICATION
FBF74163	G300 Z275 Galvanised Steel	74	163	Floor Trusses
FBF94153		94	153	



DESIGN CAPACITIES – FLOOR TRUSS RANGE, NEW PROFILE

PRODUCT CODE	FIXING TO SUPPORTING BEAM (A)	DEAD + FLOOR LIVE LOAD 1.2G+1.5QF			FIXING TO SUPPORTED BEAM (B)	WIND UPLIFT K1 = 1.14		
		JOINT GROUP				JOINT GROUP		
		JD5	JD4	JD3		JD5	JD4	JD3
NEW FLOOR TRUSS FRAMING BRACKETS								
FB74163 FB94153	18 nails	7.3	8.7	12.2	10 nails	6.9	8.2	11.6
					6 nails	4.4	5.2	7.4
	10 screws	9.6	13.6	19.2	10 screws	16	20	20
	6 screws	6.1	8.6	12.3	6 screws	10.1	14.4	20

NOTES:

1. The design capacities listed in this table are limit state design values developed in accordance with NZS/AS1720.1 (2022)
2. The above tabulated capacities are for a minimum supporting beam thickness of 35 mm.
3. Adopt 65mm long screws when fixing to multi-laminates of Supporting Beam A.

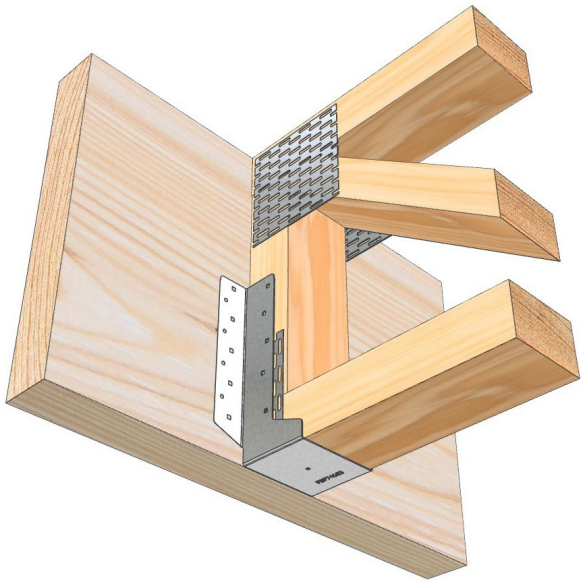
   Note: Supporting beam should be sufficiently laminated to adequately transfer loads between beams. The lamination detail should be done in conjunction with a suitable project Engineering Detail or beam suppliers' detail.
4. Gap between Supported and Supporting Beams: A maximum gap of 3mm is permitted without impeding the design capacities. A larger gap would result in a rotation of the supported beam under downward loads and could compromise on end distance requirements of nails resulting in reduced uplift capacities. Seek advice from a Pryda Engineer regarding treatment of large gaps.
5. If the bottom flange of the bracket is more than 10mm below the bottom edge of the beam, then seek advice from a Pryda Engineer.
6. Determination of joint group (JD): The JD group should be taken to be the lesser of the Supporting Beam JD group and the floor truss web and chord JD group. If unsure use JD5 values for both to be conservative.
7. In general, the floor truss bracket depth selected should extend min 2/3 the depth of the supporting beam and/or the supported floor truss (whichever is greater). If this is not practical then additional rotational restraint/fixing may be required at the top of the beam/floor truss. This could be done by nail or screw fixing the floor truss in the top 1/3 of its depth through the timber vertical into the support beam as noted in installation procedure.

APPLICATION AND SCOPE OF USE

Pryda Framing Brackets for Floor Trusses 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.

Pryda Framing Brackets for Floor trusses are suitable for many joints including:

- Joist to beam
- Floor truss to beam
- Beam to beam



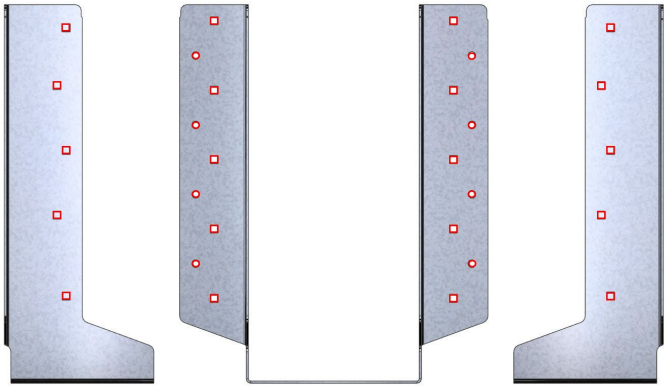
Fastener Selection Guide.

When selecting for nail fix, use both **round** and **square** holes.

When selecting for screw fix, use only the **square** holes.

NAIL FIX OPTIONS

When selecting for nail fix, use both **round** and **square** holes.



Supporting Beam A

18 nails.

9 nails each flange

Supported Beam B

10 nails.

5 nails each side

Supported Beam B

Supporting Beam A

18 nails.

9 nails each flange

Supported Beam B

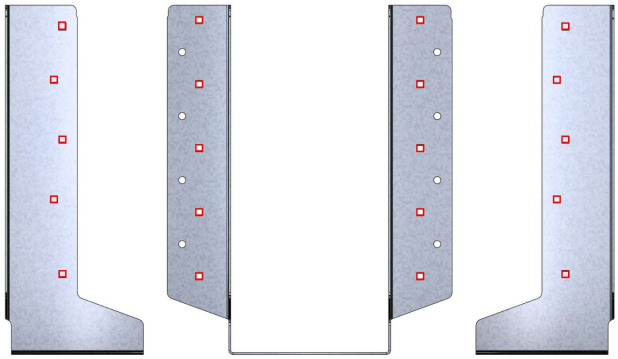
6 nails.

3 nails each side

Supported Beam B

SCREW FIX OPTIONS

When selecting for screw fix, use only the **square** holes.



Supporting Beam A

10 screws.

5 screws each flange

Supported Beam B

10 screws.

5 screws each side

Supported Beam B

Supporting Beam A

6 screws.

3 screws each flange

Supported Beam B

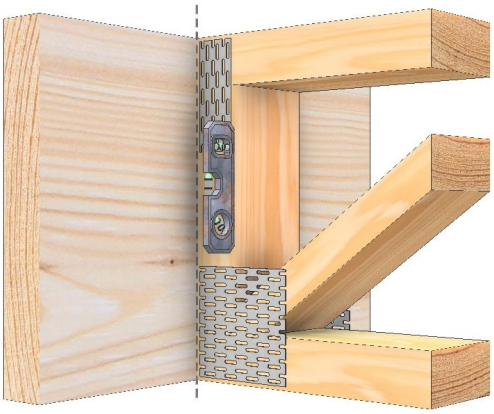
6 screws.

3 screws each side

Supported Beam B

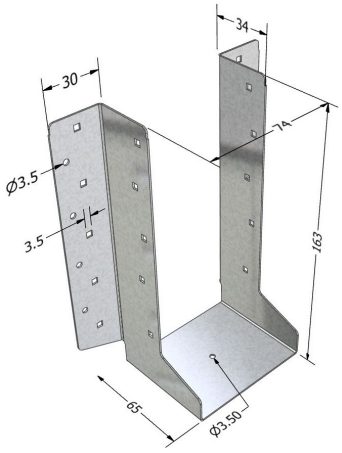
INSTALLATION -FRAMING BRACKET FOR FLOOR TRUSSES

STEP 1 Check for vertical and horizontal level.



- Ensure both Beam A and B are level and plumb.
- Measure and mark location of connection on supporting beam.

STEP 2 Select the correct bracket 70mm or 90mm



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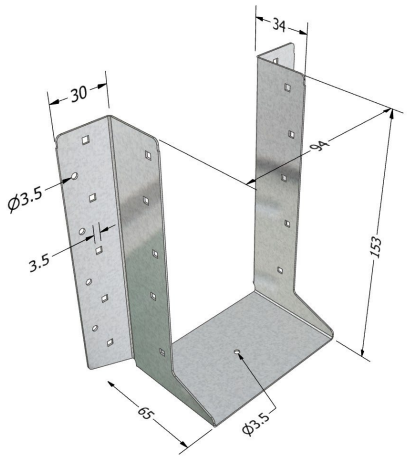


FBF94153

- 70mm wide floor trusses, select FBF74163
- 90mm wide floor trusses, select FBF94153

STEP 3 Select the fastener type fixing method: Nails or Screws

NAIL FIXING OPTIONS

Full fixing:

- All holes filled to Supporting and Supported member.

Partial fixing:

- All holes filled to Supporting member.
- 6 nails (3 per flange) fixed to supported member.

SCREW FIXING OPTIONS

Full fixing:

- All holes filled to Supporting and Supported member.

Partial fixing:

- 6 screws (3 per flange) fixed to Supporting member.
- 6 screws (3 per flange) fixed to supported member.

It is important to refer to Product Data Sheet Design Capacities table for each fixing option. Only used either screw fix or nail fix, never combine fastener types.

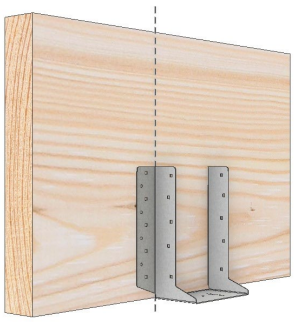
STEP 4 Understanding bracket hole types

When selecting for nail fix, use both **round** and **square** holes. →

← When selecting for screw fix, use only the **square** holes.

STEP 5 Install Framing Bracket

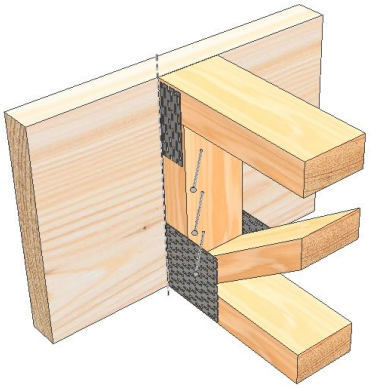
OPTION A: BRACKET FIRST



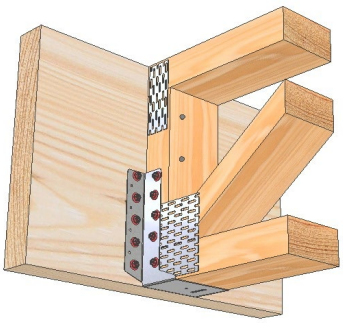
- Position bracket to marked location.

- Screw fix both flange to Supporting Beam.

OPTION B: FLOOR TRUSS FIRST

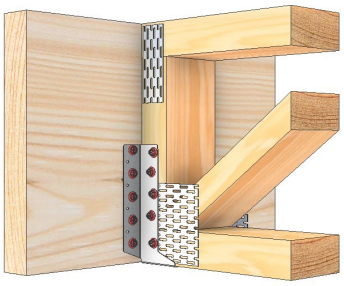


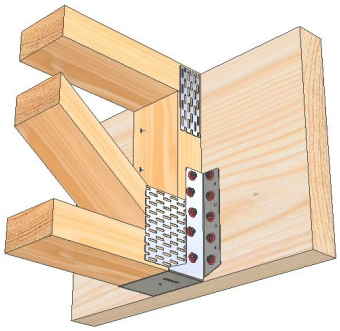
- Position floor truss to marked location and ensure bottom of truss is flush with beam bottom edge.
- Fix Truss to supporting beam with 3 x 3.15 x 90mm skew nails. Nails shall be fixed 30mm in from web edge and 60mm from web cut end. Stagger as required.



- Install Framing Bracket, ensuring the bracket is seated directly under floor truss and firmly against the supporting beam.
- Screw fix bracket to Supporting Beam and supported truss end vertical.

STEP 5 Install Framing Bracket continue





- Install floor truss on to bracket.
- Install screws to through side flange into truss vertical web, both face.
- Repeat of fixing on opposing side. Screw fix bracket to Supporting Beam and supported truss end vertical.

MACHINE NAILING

Paslode's PPN-Master positive placement nailer replicates the accuracy of hand nailing by using a probing tip to fire nails through holes in the connector. Pryda supports the use of the PPN-Master for these products. Unlike traditional nailing tools, no design capacity reduction is required when using the PPN-Master.

Screw hardened, electro galvanised Paslode nails that are appropriate include:

- Duo-Fast C SHEG 32 x 2.3 (D40810)
- Paslode 32 x 2.5mm (B25110)
- Duo-Fast 32 x 2.5mm (D41060)
- Pas Coil 32 x 2.5 SHEG 2 Pack (B25250)
- Impulse 32 x 2.5 SHEG (B40020)

Contact Details	
Manufacture location	Overseas
Legal and trading name of manufacturer	Pryda Australia - a Division of ITW Australia PTY LTD
Legal and trading name of importer	Pryda New Zealand -a Division of ITW New Zealand
Importer address for service	23-29 Poland Road, Wairau Valley, Auckland, 0627, New Zealand
Importer website	pryda.co.nz
Importer email	info@prydaanz.com
Importer phone number	0800 88 22 44
Importer NZBN	9429039833129
Product Skus	FBF74163, FBF94153