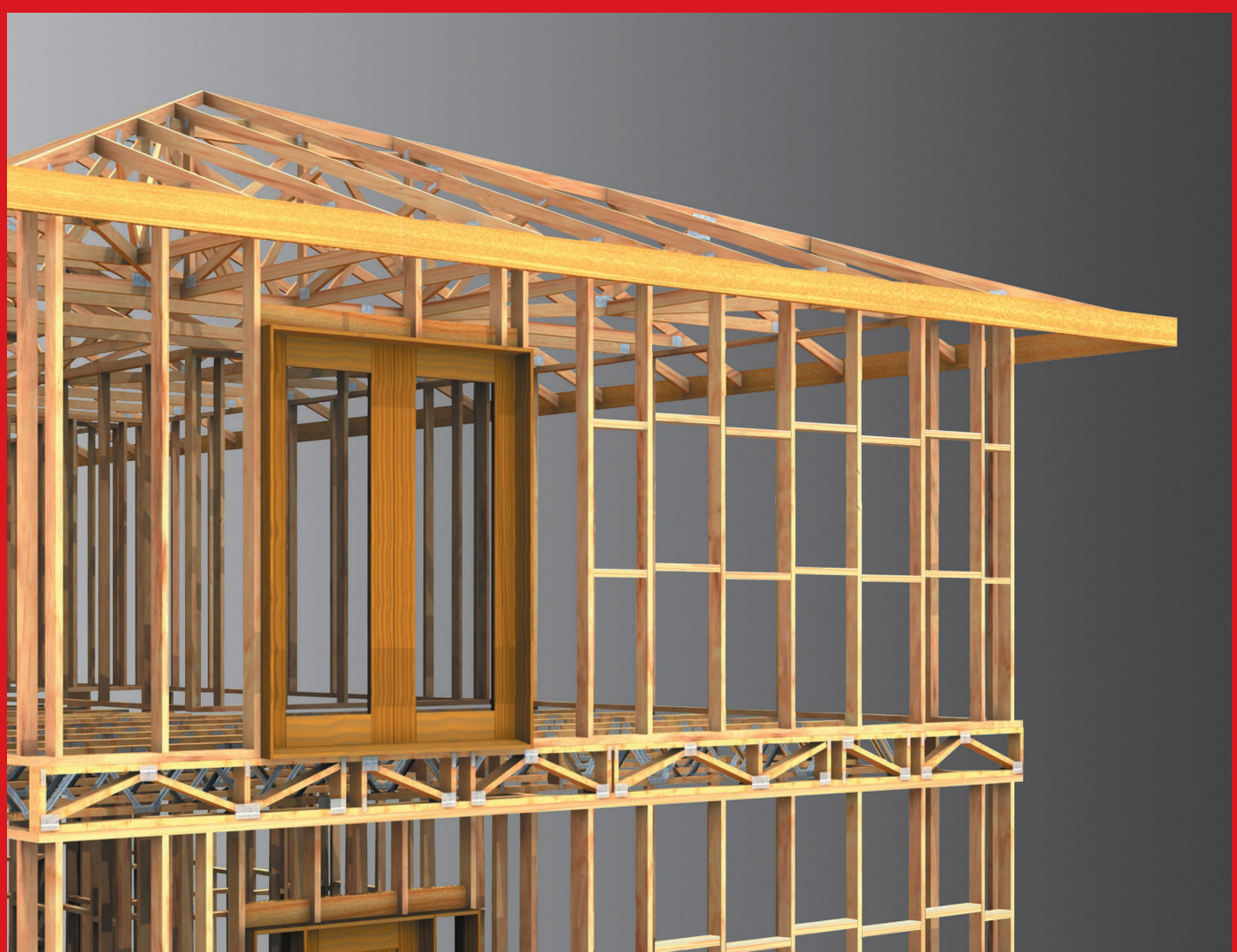
Pryda Product Catalogue

Timber connector specifications and design loads.

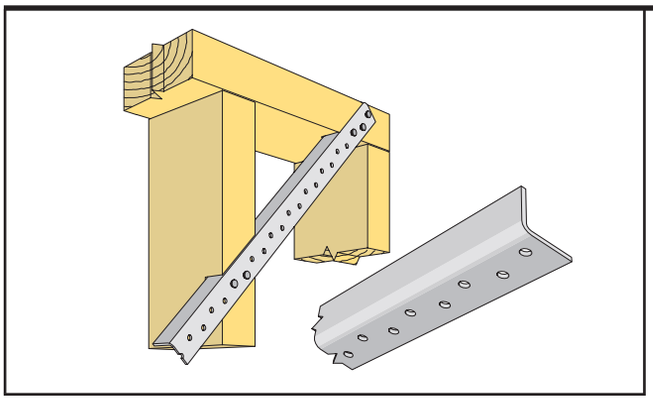
October 2014



Catalogue Contents

Angle Brace

A fast, effective brace for timber frames.



Specifications

Size:	20 x 20 x 1.00mm
Material:	G300 Z275 galvanised steel
Product Code:	
AB30 (3.0m)	AB42 (4.2m)
AB33 (3.3m)	AB48 (4.8m)
AB36 (3.6m)	
Packing:	Bundles of 10 lengths.

Features

Pryda Angle Brace is the fast effective way to brace interior or exterior timber framing. It is fitted by making a single saw cut into the studs, inserting the brace, then nailing.

Because Pryda Angle Brace is power punched, it features clean, fully punched holes (no nails are bent or wasted by trying to force them through the brace).

Pryda Angle Brace utilises the tension and compression strength of steel with the properties of timber. It holds studs straighter, allows better air circulation and makes it easier to install wiring, plumbing and insulation.

Applications

Used as a fast and effective bracing method for use in interior or exterior timber framing in a “closed” environment as defined in NZS3604:2011 Table 4.2

Installation

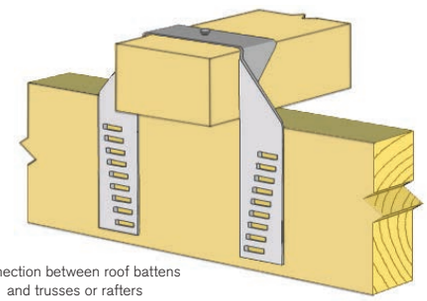
1. Use the edge of the steel brace to draw a straight line where the brace is to go.
2. Cut the studs 20mm deep on this line with either a Pryda Angle Brace Checka, power saw or a hand saw.
3. Slide plain leaf of the Angle Brace into the sawcut. For safety reasons the punched leaf of the angle must point downwards. Nail punched leaf to the stud through the holes provided using 30 x 3.15 Pryda Product Nails, two per stud and minimum of three per end.
4. Brace is to be 150mm minimum from end of the top and bottom plates.

Loads (Wind Only)

Steel: Characteristic Strength = 11.2 kN Limited State Design Capacity (LSD) = 10.0 kN					
Tension: Nails in one leg only			**Compression:** Studs @ 600mm centres		
Number of nails at each end	**Characteristic Strength**	**Design Load (LSD) Brief**		**Brace at 45°**	**Brace at 55°**
			Clear Brace Length	780mm	980mm
3	4.7 kN	4.2 kN	Characteristic Buckling Load	4.6 kN	3.1 kN
4	6.2 kN	5.6 kN	Design Load	4.1 kN	2.8 kN

Batten/Purlin Strap

Metal strap for tying roof battens or purlins to trusses or rafters.



Connection between roof battens and trusses or rafters

Features

The Pryda BS70 Batten/Purlin Strap provides a simple solution for tying down roof battens to trusses or rafters.

The Pryda BS70 has high uplift capacity, is fast and easy to install and suitable for all New Zealand wind zones.

Specifications

Size:	Suitable for 70 x 45mm batten/purlin on flat
Material:	1.00mm G300 Z275 galvanised steel
Product Code:	BS70
Packaging:	70 per carton

Installation

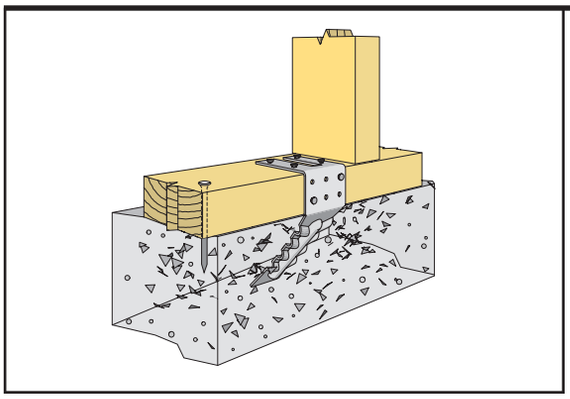
Place the Batten Strap over the batten and fix both the strap and batten to the supporting truss or rafter with one galvanised 100 x 3.75mm flat-head nail. Hammer all of the claw nails into the truss chord or rafter. The BS70 is only suitable for use with 70 x 45mm on flat.

Batten Span (mm)	Batten Spacing (mm)	Wind Cat. for BS70	Characteristic Strength Loads acting up/down
		M*	M*
900	900	VH	SG8
900	1200	VH	SG8
1200	900	VH	SG8
1200	1200	Med	SG10

Table based on 70 x 45mm batten/purlin on flat.

Bottom Plate Anchor

Metal anchor fixing bottom plate to concrete slab.



Specifications

Size:	235 x 50 x 1.2mm
Material:	1.2mm G300 Z600 galvanised steel
Product Code:	BPA
Packing:	50 per carton

Features

- Alternative to NZS 3604:2011 Bolt/ Dowel fixing of timber wall plate to concrete slab.
- Speedier concrete finishing - allows floating to slab edge and avoids messy hand trowelling around cast-in bolts.
- Easier wall frame placement - no drilling of plates and no lifting / locating over preplaced bolts.
- Cost savings over cast-in anchor bolts.

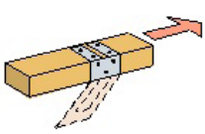
Installation

1. Tack nail anchors to top edge of boxing at maximum 900 ctrs (if wall contains sheet brace element, one anchor must be positioned 250mm from sheet edge). Position anchors with tabs horizontal and crimped end downwards at 45° angle.
2. After initial concrete cure, position wall frame.
3. Bend anchor up and over plate and nail with 30 x 3.15mm Pryda Product Nails - 2 into edge of plate and 2 per tab. If tabs coincide with stud position, nail to stud with 2 per tab.
4. Fix one 75 x 4mm concrete nail adjacent to anchor, minimum 70mm from edge and slab

NOTE: Bottom plate fixings are designed to be used in DRY service conditions - i.e., with concrete protected from moisture by continuous damp proof membrane.

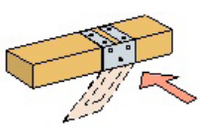
CAPACITIES*

(per anchor in 17MPa concrete) as per NZS3604:2011 c1 7.5.12.3/4



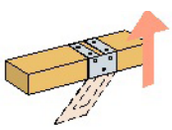
Along Plate

Basic Load	= 2.2 kN
Design (W or E)	= 3.9 kN
Capacity	= 6.4 kN



Across Plate

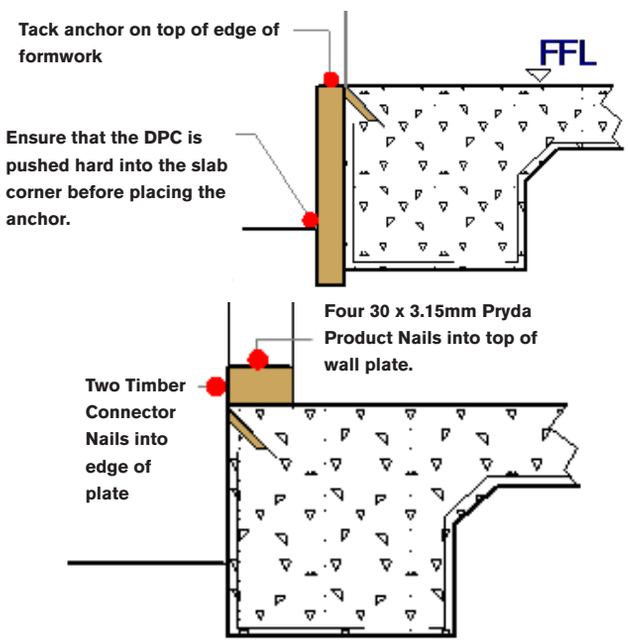
Basic Load	= 1.6 kN
Design (W or E)	= 2.8 kN
Capacity	= 5.1 kN



Uplift

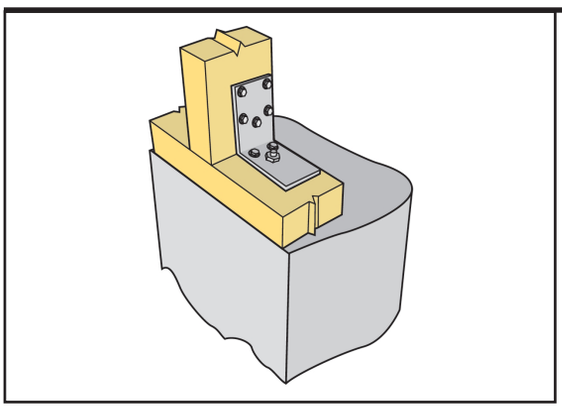
Basic Load	= 2.5 kN
Design (W or E)	= 4.4 kN
Capacity	= 8.0 kN

*Product testing by Monash University Melbourne (NATA Registered Laboratory)



Bracing Anchor

Designed to satisfy gypsum wall board and plywood bracing systems.



Specifications

Material:	Z275 Electrogalvanised Steel
Product Code:	PBA
Packing:	10 sets per ctn (Set includes 2 x PBA plus 14 / 12g x 35mm T17 screws)
Size	88/85 x 50 x 5mm

Features

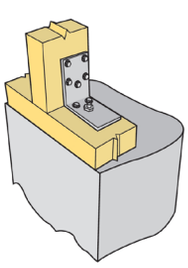
The Pryda Bracing Anchor (PBA) is designed to be used in conjunctionwith gypsum wallboard and plywood manufacturers bracing systems, references or literature. The Pryda Bracing Anchor can satisfy the hold down requirements and is a substitute for the pre-fitted double strap.

Advantages

- Ease and speed of installation.
- No checking of timber to ensure flush fitting of board
- The PBA is a one piece anchor for either side of stud
- Slotted hold on bottom of bracket provides some flexibility in screw and bracket position Installed prior to fixing of gypsum wallboard
- Easy inspection

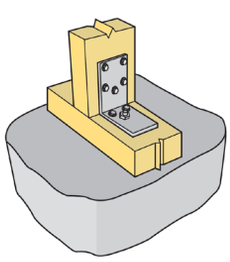
Installation

1. Identify where PBA is to be located from details below. Ensure PBA fits within the wall frame plane
2. Present PBA to junction of bottom plate and stud ensuring a snug fit to both surfaces. Refer to relevant floor installation detail below to correct placement across face of bottom plate
3. Mark position of 15kN concrete screw or M12 screw using the PBA as a guide and remove PBA
4. Drill appropriate size hole for bolt or screw with reference to supplier's data sheet for correct hole size and use of the fastening
5. Place the PBA into position and fasten home the screw or bolt to a snug fit, ensuring face of PBA is tight against face of stud.
6. Screw 5 / 12g x 35mm hex head tek screws in to the stud flange
7. Re-check the tightness of the M12 screw or 15kN bolt
8. Finally screw 2 / 12g x 35mm hex head tek screws into the bottom plate flange



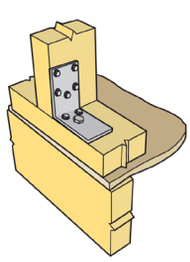
External Brace Wall

To comply with concrete and timber edge distance, bracket shall be located 10mm from inside face of bottom plate. Refer to 15kN proprietary fixing manufacturers requirement for concrete edge distance.



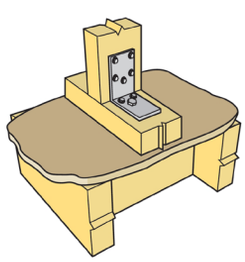
Internal Brace Wall

PBA shall be fixed centrally to the wall frame.



External Brace Wall

PBA shall be fixed centrally over a solid joist using an M12 x 150mm galvanised coach screw.

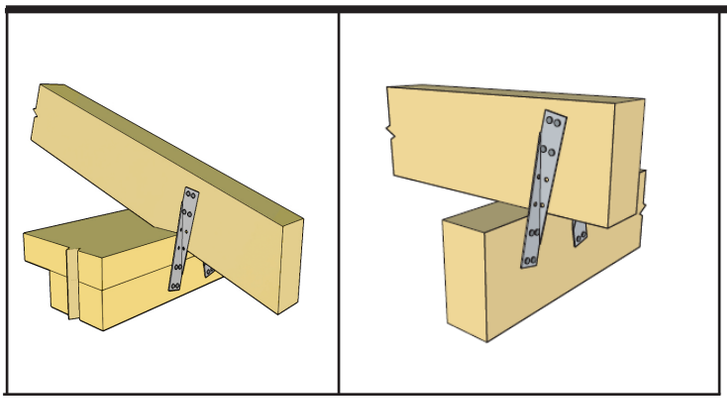


Internal Brace Wall

PBA shall be fixed centrally on the bottom plate using an M12 x150mm galv coach screw ensuring that screw is fixed centrally into a solid joist. Extra solid nog may be required to achieve solid fixing.

Ceiling and Purlin Hanger

Simple fixing with a variety of uses in a building.



Features

Pryda Ceiling and Purlin Hangers are a simple device with a variety of uses in a building.

Pryda Ceiling and Purlin Hangers are simply nailed onto two pieces of timber crossing each other at right angles.

Specifications

Size:	25 x 1 x 126 or 190mm			
Material:	1.0mm G300 Z275 galvanised or stainless steel			
Product Code:	CPH190-LH	190mm long	CPH126-LH	126mm long
	CPH190-RH	190mm long	CPH126-RH	126mm long
	CPH190-LH/S	190mm long	CPH126-LH/S	126mm long
	CPH190-RH/S	190mm long	CPH126-RH/S	126mm long
Packing:	Galvanised Steel	50 per/ctn single handed only		
	Stainless Steel	10 per/ctn single handed only		
Nails:	30 x 3.15mm Pryda Product Nails			

Applications

A simple and econimical connection between timber members crossing at right angles.

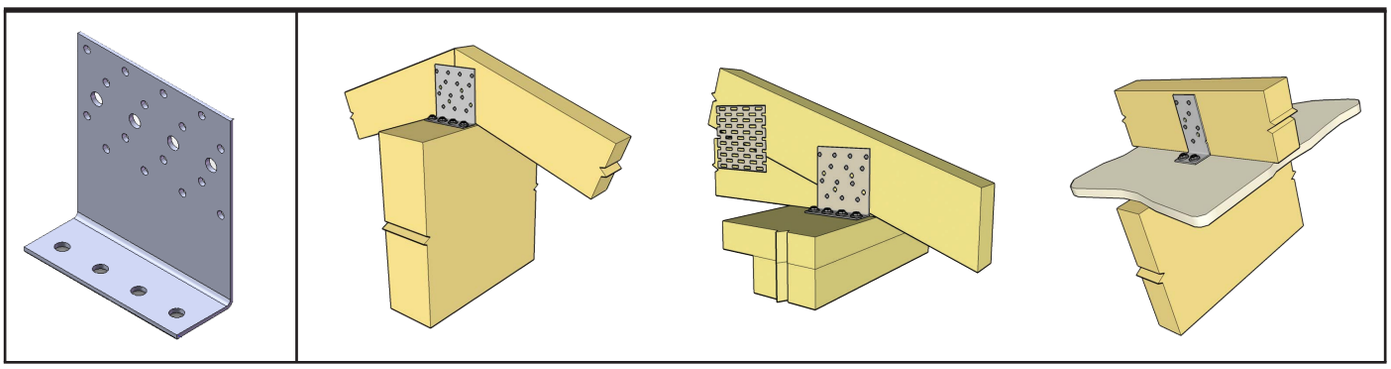
Design Loads (per pair)

Steel Strength	13.6 kN
2 Nails each end	3.2 kN
3 Nails each end	4.8 kN
4 Nails each end	6.3 kN

Above values for SG8 timber or better.

Concealed Purlin Cleat

Metal bracket suitable for a number of applications.



Features

Strong rigid connection for rafters, trusses, and beams to wall plates, beams etc. Suitable for purlin fixing with or without ceiling to resist wind. Also suitable for truss tie downs with ceiling plates if 14g x 75mm long screws are used instead of the normal 12g x 35mm screws for other applications.

Specifications

Size:	85 / 30 x 40, 60 or 80mm		
Material:	1.85mm G300 Z275 galvanised steel or stainless steel		
		Galvanised	Stainless
Product Code & Packing:	NPPC4 (40mm)	50 per ctn	50 per ctn
	NPPC6 (60mm)	35 per ctn	35 per ctn
	NPPC8 (80mm)	25 per ctn	25 per ctn
Nails/Screws:	Large Flange – 30 x 3.15mm Pryda Product Nails or 12g x 35mm hex head		
	Small Flange – 12g x 35mm hex head screws or 14g x 75mm if used on a truss/double top plate		

Applications

- Rafter or Truss to Wall/Beam
- Purlin to Exposed Rafter
- Ridge Beam to Exposed Rafter

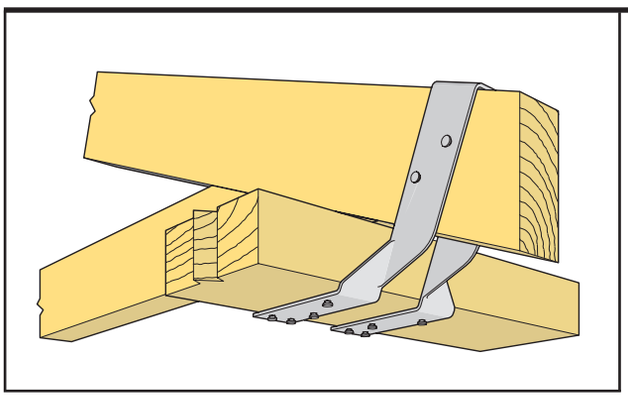
Uplift Loads (per pair)

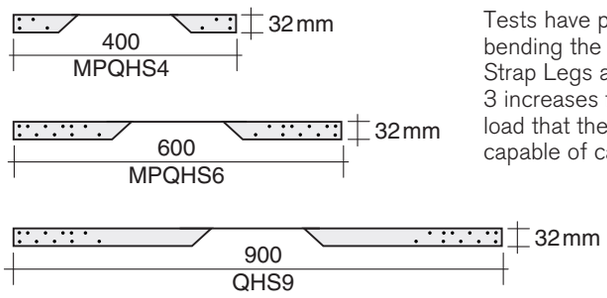
Product Code	No. Nails in Large Flange	No. of Screws in Large Flange	No. Screws in Small Flange	Characteristic Load (kN)	Serviceability Load (kN)
NPPC4	6	2	2	9.0	2.0
NPPC6	9	3	3	13.0	3.0
NPPC8	12	4	4	17.0	4.0

The above uplift loads apply to J4/J5 timber solutions. The loads do not change for the longer screws used in ceiling plate situations.

Cyclone Strap

A simple, efficient, tie down with greatest design capacity.





Tests have proved that bending the Cyclone Strap Legs as in Fig. 2 & 3 increases the design load that the strap is capable of carrying.

Features

The Pryda Cyclone Strap has been designed as a simple, efficient tie down with the greatest design capacity. Tests have been proven that bending the Cyclone Strap legs under the support member increases the design load that the strap is capable of carrying.

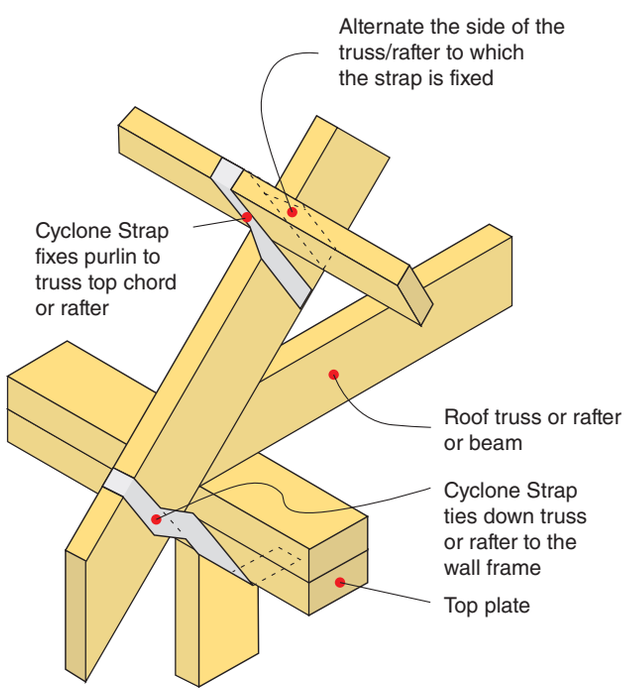
Specifications

Sizes	See dimensions above	
Material	0.95mm G300 Z275 galvanised steel coil	
Product Code & Packing	MPQHS4	80 per carton
	MPQHS6	80 per carton
	QHS9	25 per bundle
Nails:	30 x 3.15mm Pryda Product Nails	

Loads

Load Direction	Characteristic Strength (kN)	
	J4	J5
Steel	14.5	14.5
3 nails/leg	6.5	4.7
4* nails/leg	8.6	6.3
5* nails/leg	10.8	7.9
5** nails/leg	14.5	14.5

Cyclone Strap has a maximum design capacity for wind uplift as follows: 13.0 kN for J4 and J5.
* Require 70 or 90 deep top plate.
** With strap wrapped under support member. (Fig 2 or 3)



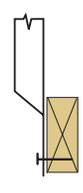


FIG 1

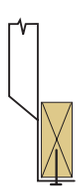


FIG 2

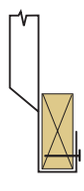
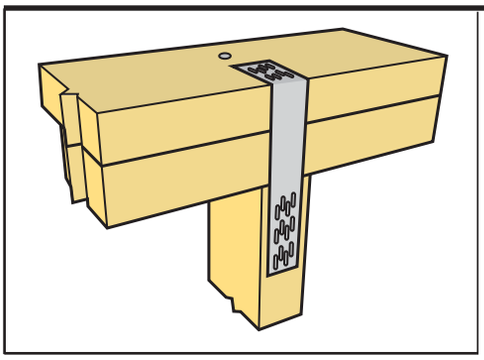


FIG 3

Ezi
Stud Tie

Designed to fix top plates to studs or lintels.



Features

The Pryda Ezi Stud Tie - SST (STS25) has been designed to exceed the requirement of table 8.18 NZ3604:2011 – "Fixing of top plate of wall to supporting members such as studs and lintels at 600mm centres". The Pryda Ezi Stud Tie is not reliant on the position of the top plate fixing nails to achieve desired strength.

Advantages

- Easy to install
- No checking of timber required
- Can be fitted after top plate packer has been attached
- Prebent to ensure correct placement on site
- Smaller top plate connection – Quicker and easier to fix
- Less cumbersome – Smaller but effective
- Easily installed using just a hammer
- Easily inspected

Specifications

Size:	185/65 x 30mm
Material:	1.0 mm G300 Z275 galvanised steel.
Product Code:	SST (STS25)
Packing:	100 per carton

Installation

Prior to use, the Pryda Ezi Stud Tie shall be stored in weatherproof environment and protected from moisture. Care must be take to avoid any damage to the surface of the product that may affect the protective galvanised coating.

Installation is self evident and normal good building practice is assumed during installation. The Pryda Ezi Stud Tie can be fixed in the pre-nail stage or on site using a carpenters' hammer requiring no special skill or other tools.

Application

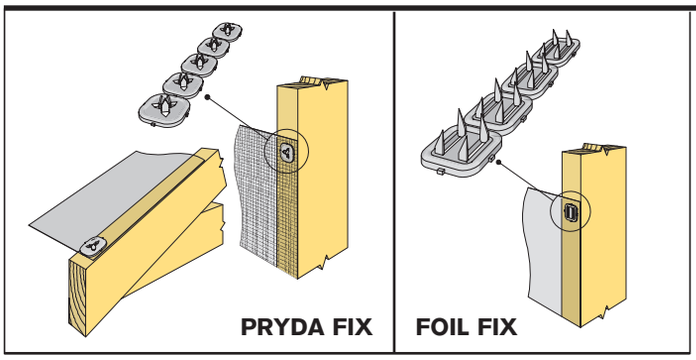
The Pryda Ezi Stud Tie is an alternative solution to the fixing type B in Table 8.18 in NZ3604:2011. The Pryda Ezi Stud Tie exceeds the required capacity without relying on the additional 0.7kN contribution of the 2/90x3.15 nails, top plate to stud.

Durability

The durability of the Pryda Ezi Stud Tie is in accordance with the acceptable solutions contained in Table 4.1 of NZS3604: 2011 and is intended for use in internal "closed spaces". It is not suitable where 304 stainless steel is specified or required.

Fix & Foil Fix

The non-tear economical fixings for sheet insulation and shade netting.



Specifications

Material	0.8mm G300 Z275 galvanised steel
Product Code & Packing	
SFI (Pryda Fix)	750 (150 sticks of 5)
SFF (Pryda Foil Fix)	500 (50 sticks of 10)

Features

PRYDA FIX (for shade cloth) and **PRYDA FOIL FIX** (for insulation foil) are manufactured from 0.8mm galvanised steel (275 gm/m2). The plates are designed to eliminate tearing on sharp surfaces, the rounded coined edge holding the material firmly against the timber when the pre-punched nails are driven home. They are manufactured in easy snap off stick form for speed and safety.

PRYDA FIX: Shade netting may be easily fixed to a timber frame using Pryda Fix. Simply hold the shade netting in position and nail Pryda Fix at 400mm ctrs. Pryda Fix eliminates the need for timber battens to hold the netting in position.

Pryda Fix may also be used for the fixing of sheet PVC used in the construction of hothouses for domestic and commercial use. The use of Pryda Fix prevents the tearing of the sheeting when fixed to timber frames. Pryda Fix are also useful for fixing insulation foil at wider spacings than conventional foil fasteners.

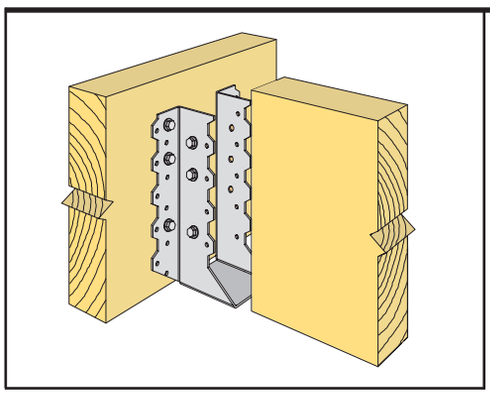
PRYDA FOIL FIX: A suitable and economical method of fixing building foil insulation to wall frames. They hold the insulation foil securely and prevent tearing. Recommended fixing is at 600mm ctrs. Pryda Foil Fix may also be used for fixing insulation foil used in roof construction.

The exclusive twisted nail profile suitable for use with the hardest of timbers resists “pull out”. The foil is held securely in position whilst tearing in windy conditions is prevented due to the rounded coined edges of the plate.
FOIL FIX - SAFE LOADS: For all timbers with joint group J4 or better, the holding power exceeded the tearing strength of the foil.

Foil Fix Test Results: Lightweight Foils	Safe Loads
Foil tested in pull out (i.e. tending to tear around perimeter of Foil Fix)	50N
Foil tested in tension (i.e. tending to pull through between Foil Fix and timber)	80N
Foil Fix tested in pull out from timber. Tests in groups J4 (Radiata Pine), indicate no significant difference in timber grouping.	100N

Framing Bracket

A metal bracket for fixing timber beams at right angles.



Specifications

Sizes:	Product Code denotes the size of the timber the product is suitable for, e.g. FB4590 is suitable for 45 mm x 90-150mm
Material:	1.0mm G300 Z275 or G300 Z600 galvanised steel or stainless

Features

Pryda Framing Brackets are suitable for fixing joist to joist, joist to beam, truss to truss, rafter to purlin, and hangers to joists.

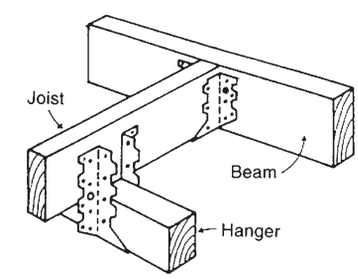
Pryda Framing Brackets are either nailed into place with 30 x 3.15mm Pryda Product nails, or type 17 12g x 35mm hex head galvanised screws.

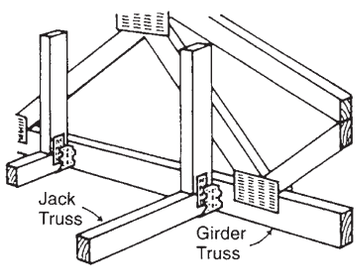
Product Code & Packing:

Product Code	Suitable for timber	Packing	
		Galv.	Stainless
MPFB4590*Δ	45 x 90 - 150mm	45	10
MPFB45120*Δ	45 x 120 - 200mm	45	10
MPFB45180*Δ	45 x 190 - 300mm	30	10
MPFB5274*Δ	50 x 90 - 150mm	45	10
MPFB52124*Δ	50 x 120 - 200mm	45	10
MPFB52174*Δ	50 x 190 - 300mm	30	10
FB94/152*	90 x 150 - 240mm	25	10
FB65/170	65 x 190 -300mm	25	
FB72/163	70 x 190 - 300mm	25	

* Available in Stainless Steel.
Δ Available in Z600.

Applications



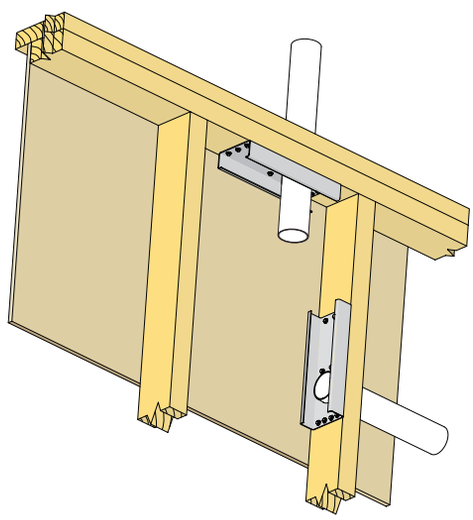


Loads

	Face		Joist		Characteristic Strength Leads Acting (kN)			
Product Code	Face Nails	Face Screw	Joist Nails	Joist Screw	J4 Down	J4 Up	J5 Down	J5 Up
MPFB4590	10	4	4	2	11.2	4.3	8.2	3.2
MPFB5274								
MPFB45120	14	6	6	4	16	6.6	11.8	4.8
MPFB52124								
FB94/152	18	6	9	6	21.2	10.2	15.5	7.5
MPFB45180	22	8	10	6	26.5	11.2	19.4	8.2
MPFB52174								
FB65/170	18	6	10	6	21.2	11.2	15.5	8.2
FB72/163								

Frame Fix

Plate designed to re-instate the integrity of a penetrated top plate or stud.



Specifications

Size:	240 x 86 x 35/35mm
Material:	1.6mm G300 Z275 galvanised steel
Packing:	10 per carton
Product Code:	PFF

Durability

The durability of the Frame Fix is in accordance with the acceptable solutions contained in Table 4.1 of NZS3604:2011 and is intended for use in internal "closed spaces". It is not suitable where NZS3604:2011 specifies stainless steel.

Features

The Pryda Frame Fix (PFF) has been designed to allow a service hole of no greater than 60mm to be drilled through a top plate (including top plate packer if used) or wall stud to allow services such as air conditioning or central vacuum pipes to be passed through the member. The fitting of a PFF re-instates the integrity of the penetrated top plate or stud.

Application

The PFF is intended to re-instate the structural integrity of both 90 x 45mm and 140 x 45mm wall frame top plates (including a top plate packer if used) or wall studs that have had a service hole of no greater than 60mm diameter drilled through it's centre.

Advantages

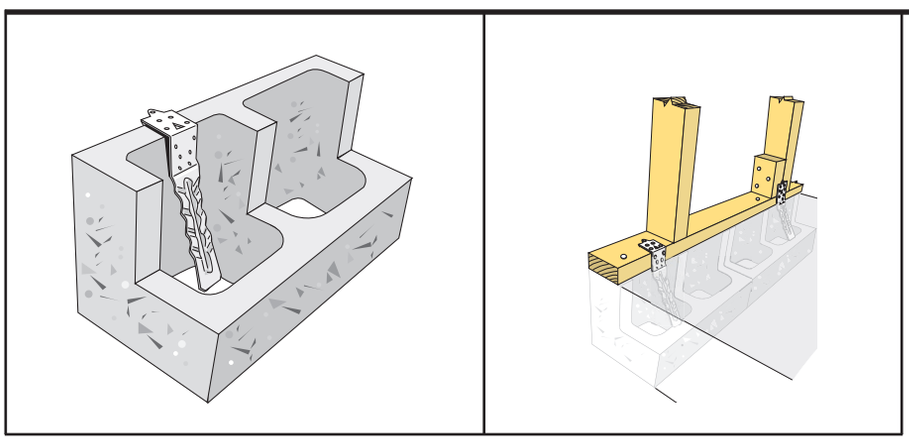
- Unique design provides greater top plate uplift resistance capacity
- Quick and easy to install
- Leaves clean faces to outside edges of the timber frames.
- Fixing is by Type17 hex head screws. All holes shall be filled
- Comes in one size, designed for use with 90x45mm and 140x45mm timber only
- Allows an easy solution to fix penetrations in frames made by other trades
- Timber grade can be SG8 or better
- Easily specified by using the Pryda Code P^{FF}

Installation

Prior to use the PFF shall be stored in a weatherproof environment and be protected from moisture. Care must be taken to avoid any damage to the surface of the product that may affect the protective galvanised coating.
Installation is self evident and normal good building practice is assumed during installation. The 60mm service hole can be made in any position along the stud or top plate provided that the hole edge is no closer than 45mm from a stud or nog/dwang. The 60mm hole shall be centred across the top plate or stud to accommodate the pre-punched PFF. The PFF shall be fitted to the inside of the frame leaving clean faces to both outside edges of the timber. When being used as a top plate stiffener with top plate packer then Type17 14g x 75mm hex head screws shall be used. With stud or single top plate applications then Type17 12g x 35mm hex head screws shall be used.

Header Block Anchor

A bottom plate tie down for use with concrete header block bases.



Features

- Used in the construction of concrete header block bases
- Holds down the bottom plate of timber wall frames
- Eliminates the need to bolt down the bottom plates
- Must be fitted at 600mm or less as per NZS3604:2011 cl 7.5 - 12.2

Specifications

Size:	230 x 50 x 1.2mm
Material:	1.2mm G300 Z600 galvanised steel
Product Code:	HBA
Packing:	50 per ctn

Installation

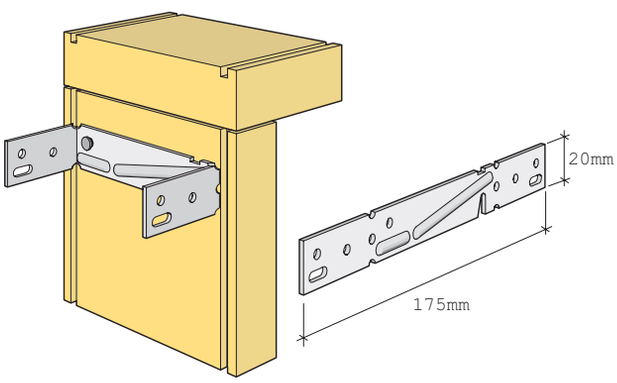
Pryda Header Block Anchors are fitted at 600mm centres or less over the outside edge of the header block before the concrete is poured.

Once the concrete has hardened, install the wall frames, then lift the exposed top flap of the Pryda Header Block Anchor back far enough to allow the wall frames to be located onto the concrete base.

Two Pryda Product Nails (30 x 3.15mm) are required to secure the Pryda Header Block Anchor to the side of the bottom plate and four Pryda Product Nails need to be fitted into the top of the bottom plate or the side of a stud. Should the Pryda Header Block Anchor not line up correctly with a stud then a block must be fitted. A 75 x 4mm concrete nail must also be fitted alongside the Pryda Header Block Anchor and within 70mm from the edge of the concrete block.

Jamb Fixa

A no wedge, no jamb face nailing bracket for door/window fixing.



Features

- Fast and easy to install
- No wedging required
- No jamb face nailing required
- Fits gauged 100mm or 75mm wide framing
- Suitable for use with solid timber or customwood mouldings.

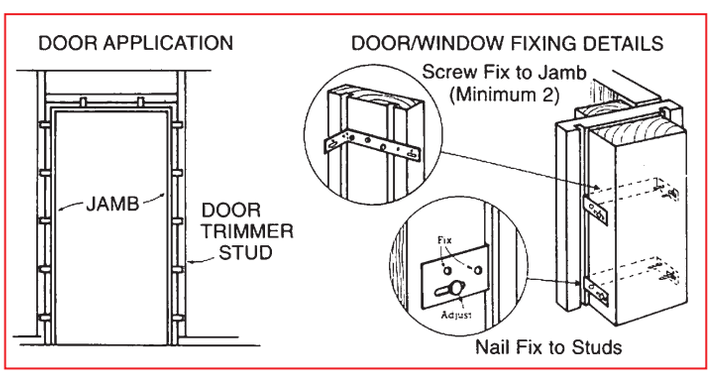
Specifications

Sizes:	See dimensions above
Material:	1.0mm G300 Z275 galvanised steel.
Product Code:	JFB100
Packing:	150 per carton
Recommended Fixings:	No.6 gauge wood screws (not supplied) and/or 30 x 3.15mm Pryda Product Nails.

Installation

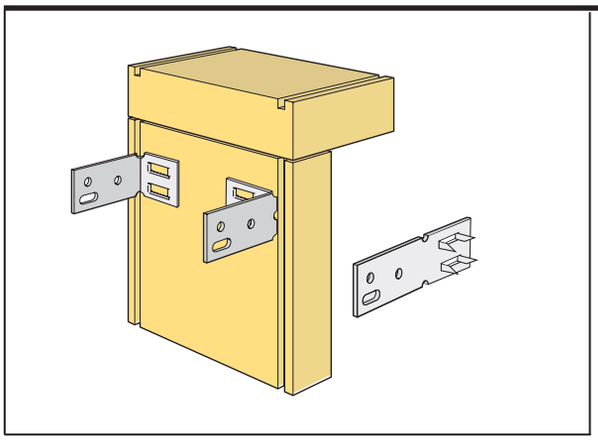
Starting with the hinge side of the opening, nail the slots on the top and bottom brackets, on the faces of the wall. The ends of each bracket should be bent tightly around the stud. Plumb the door jamb using the slots for any required adjustment, then fix brackets by nailing the remaining holes.
Repeat with jamb on other side of opening, then adjust and fix all remaining brackets in the same way. Before fixing brackets make sure jamb is plumb.

Window Fixing: Pryda Jamb Fixa brackets can be used for fixing timber or aluminium windows that have timber reveals. Fixing details are as per door jamb installation.



Jamb Tie

A no wedge, no jamb face nailing bracket for door/window fixing.

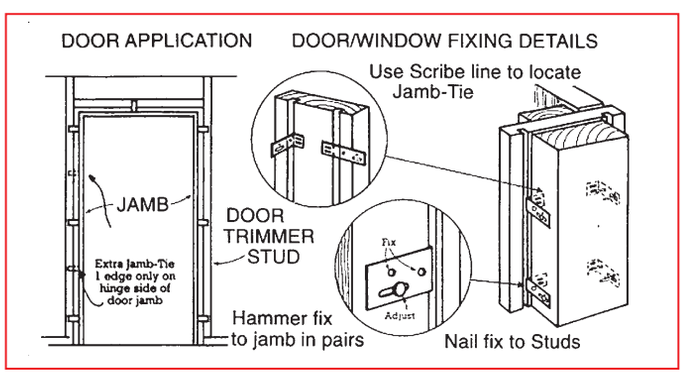


Specifications

Sizes:	JT58 JT75	58 x 1mm 75 x 1mm
Material:	1.0mm G300 Z275 galvanised steel.	
Product Code:	JT58 and JT75	
Packing:	JT58 JT75	200 per carton 150 per carton
Recommended Fixings:	30 x 3.155mm Pryda Product Nails where required.	

Features

- Quick and easy to install
- No wedging required
- No jamb face nailing required
- Fits gauged 100mm or 75mm wide framing
- Suitable for use with solid timber or MDF mouldings.



Installation

Door Jamb Installation: Recommend 16 Jamb Ties per door fitted as shown above.

1. Use scribed line to accurately position each Jamb-Tie square across the back face of door jamb then hammer fix into jamb. On grooved jambs the Tie should bend at the inner edge of each groove; on plain jambs position the scribe line on the jamb edge to allow for 10mm thickness wall lining to finish flush with the edge of the jamb

2. Lift the jamb into place and bend the end of two brackets around the opening studs to hold the door jamb in place.

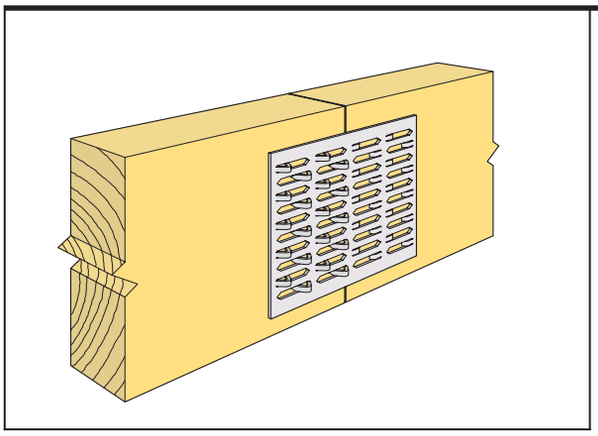
3. Starting with the hinge side of the opening, nail the slots on the top and bottom brackets, on both faces of the wall. The ends of each bracket should be bent tightly around the stud.

4. Plumb the door jamb using the slots for any required adjustment, then fix brackets by nailing the remaining holes. Repeat with jamb on opposite side of opening, then adjust and fix all remaining brackets in the same way. Before fixing brackets make sure the jamb is plumb.

5. **Window Fixing:** Pryda Jamb-Ties can be used for fixing timber or aluminium windows that have timber reveals. Fixing details are as per door jamb installation.

Knuckle Nailplates

Hammer fixed, easy to use nailplates for many applications.



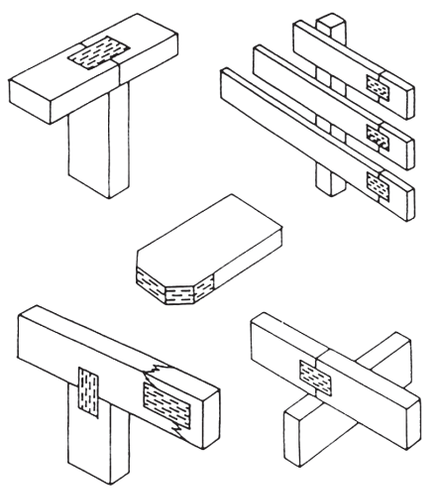
Specifications

Material:	1.0mm G300 Z275 galvanised steel.

Design Loads (Limit State Design)		Characteristic Strength
Tooth Load	parallel to grain	290 N/Tooth
	perpendicular to grain	220 N/Tooth
Shear Strength (per pair of plates)	0° to plate	120 N/mm
	90° to plate	220 N/mm
Tensile Strength (per pair of plates) Timber to be SG8 or better)	R5 Plate	14.8 kN
	R10 Plate	29.6 kN
	R16 Plate	52.3 kN
	Lateral	145 N/mm^2
	Longitudinal	390 N/mm^2

Applications

Pryda Knuckle Nailplates are galvanised steel connectors with in-built bent-up "knuckle" nails. These plates are ideal for many structural and non-structural timber jointing and timber protection uses. For example butt joints, mitre joints, timber repairs, plank protectors, fence construction. The plates are placed on the timber to be joined. When hammered or pressed in, the raised nails are forced through the plate and into the timber. A natural arc or dovetail effect is created as the nails penetrate into the timber. This provides a very positive resistance to nail withdrawal.



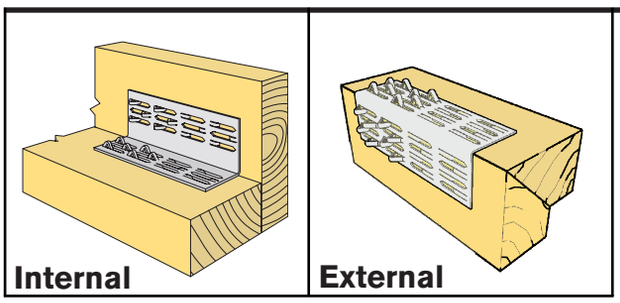
Butt Joints, mitre joints, timber repairs, plank protectors, fence construction, truss assembly

Refer to Pryda's Building Guide for various applications.

Product Code	Size (mm)	Quantity per/ctn
Merchant Pack · No. of rows of Knuckles · No. of knuckles in a row		
MP2R4	33 X 63	200
MP2R5	38 X 63	200
MP4R5	38 X 127	100
MP6R5	38 X 190	66
MP8R5	38 X 254	50
MP10R5	38 X 317	40
MP12R5	38 X 381	33
MP2R10	76 X 63	100
MP4R10	76 X 127	50
MP6R10	76 X 190	33
MP8R10	76 X 254	26
MP10R10	76 X 317	20
MP12R10	76 X 381	16
MP2R16	134 X 63	66
MP4R16	134 X 127	33
MP6R16	134 X 190	22
MP8R16	134 X 254	16
MP10R16	134 X 317	13
MP12R16	134 X 381	10

Knuckle Angle Nailplates

A simple, efficient, connector.



Specifications

Product Code, Size and Packing

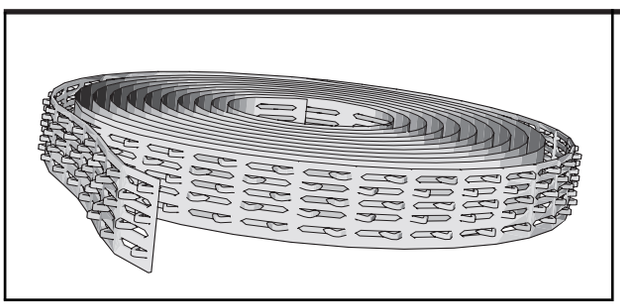
Internal	External		per ctn
MP2RA	MP2RAE	38 x 38 x 63mm	130
MP3RA	MP3RAE	38 x 38 x 95mm	70
MP4RA	MP4RAE	38 x 38 x 127mm	50
MP6RA	MP6RAE	38 x 38 x 190mm	40

Features

The Knuckle Angle Nailplates are an internal or external angled fastening making it ideal when timber needs to be attached at right angles. It's properties and features are similar to the Knuckle Nailplates.

Knuckle Nailplate Coils

A simple, efficient and convenient connector.



Specifications

Product Code, Size and Packing

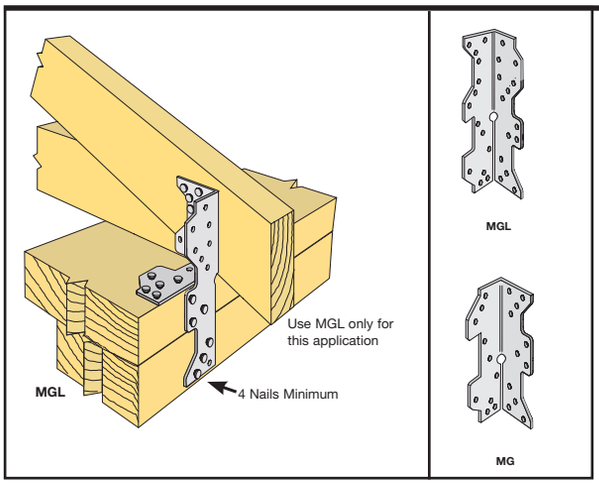
NCR5	38mm x 12.7m	1 coil
NCR10	76mm x 12.7m	1 coil
NCR16	134mm x 8.45m	1 coil

Features

Knuckle Nailplate Coils are ideal for on-site users to cut Knuckle Nailplate to the required length by using metal cutters. It's properties and features are similar to the Knuckle Nailplates.

Multigrips

A multi-purpose metal connector for timber construction.



Features

- One Multigrip fits all applications, no left and rights required.
- Bending slots ensure accurate bends on site.
- Ideal for fixing rafters to top plate.
- The long multigrip (MGL) has been created to provide increased truss to top plate connection length as required by some councils. This connector allows the truss to be tied over 2 top plates.

Loads - per multigrip nailed as shown.

Load Direction	Characteristic Strength (kN)	
	J4	J5
1	6.5	4.7
2	4.3	3.2
3	3.1	2.3
4	2.3	1.6
5	3.3	2.4

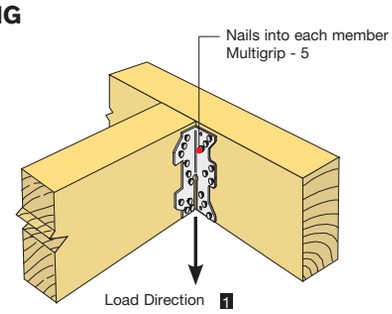
MGL has a design capacity for wind uplift as follows: 3.4kN for J4, 2.5kN for J5

Specifications

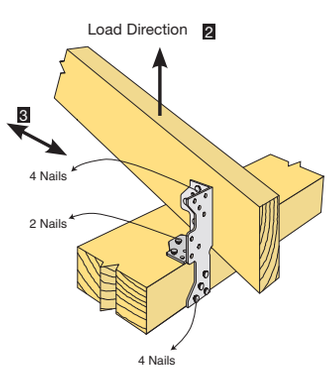
Size:	100 x 36 x 36mm (MG) 132 x 36 x 36mm (MGL)
Material:	1.0mm G300 Z275 or G300 Z600 galvanised steel or stainless steel.
Product Code and Packing:	
MG (Multigrip)	200 per carton
MPMG (Multigrip Merchant Pack) ∆	100 per carton
MGL (Multigrip long)	100 per carton
MG/S (Stainless Steel)	20 per Carton

∆ Available in Z600.

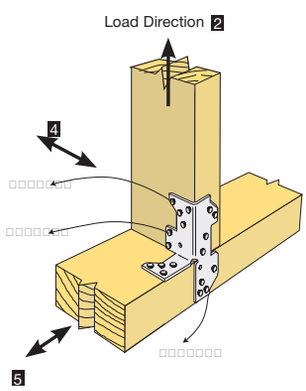
MG



FACE FIXING BEAMS



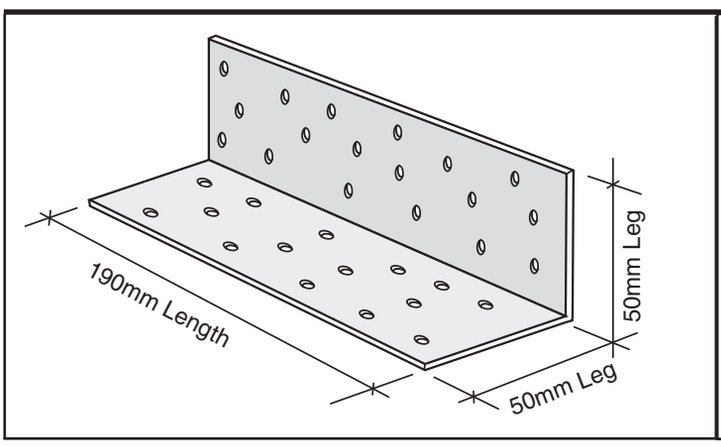
TRUSS/RAFTER TIE DOWN

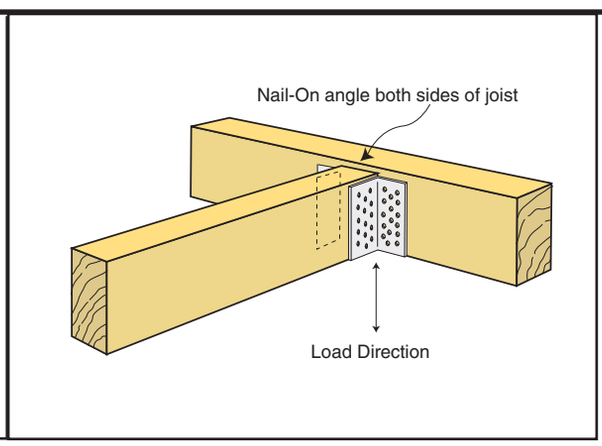


STUD/COLUMN FIXING

Nail-on Angle

A powerful and effective connector joining timber at right angles.





Features

Ideal for beam to bearer situations to give a strong, economic alternative to framing brackets where the width of the beam is non-standard.

Specifications

Pryda Nail-on Angle is manufactured from 190 x 100 x 1.0mm Nail-on Plate, folded in half along its length.

Material:	1.0mm G300 Z275 galvanised steel.
Product Code:	NPA
Packing:	25 per carton.

Nails

- Use Pryda Product Nails (30mm x 3.15mm diameter Flat Head galvanised nails) or equivalent.
- Use 75 x 3.15 diameter Flat Head nails when nailing into poles.

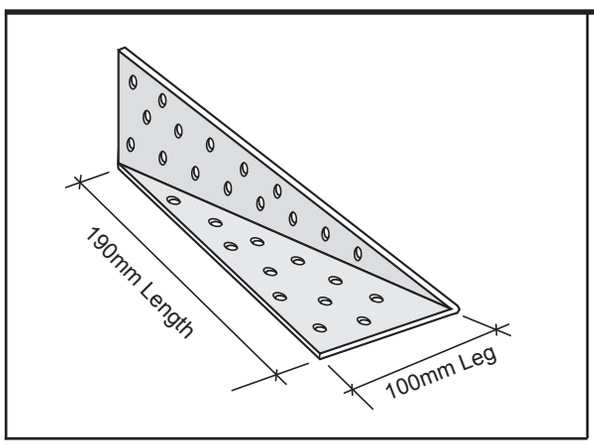
Design Loads

Design loads are for two Nail-on Angles per joint each fully nailed with 20 nails/flange into SG8 timber.

Characteristic Strength Loads acting up/down (kN)	
J4	**J5**
34.8	25.5

Nail-on Diagonal Cleat

Hammer fixed, easy to use nailplates for many application.

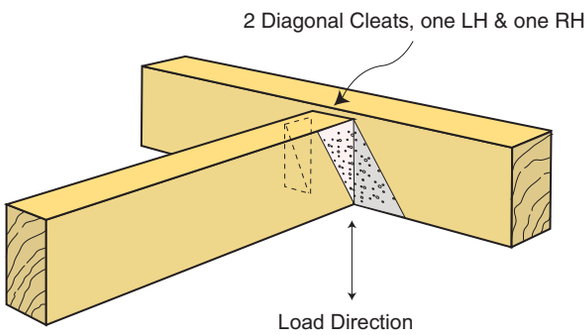


Nails

- Use Pryda Product Nails (30mm x 3.15mm galvanised nails) or equivalent.
- Use 75 x 3.15 diameter Flat Head nails when nailing into poles (e.g., girt to pole fixing)
- 20 Nails required in each flange to achieve stated design loads (Beam to Beam Connection).

Loadings

NAIL LOADS: Based on Pryda Product Nails nailed in SG8 timber.



Specifications

Material:	1.0mm G300 Z275 galvanised steel.
Product Code:	NPD
Packing:	10 LH & 10RH per ctn.

Pryda Nail-on Diagonal Cleat is manufactured from 190 x 100 x 1.00mm Nail-on plate diagonally folded to form either LH or RH Cleats.

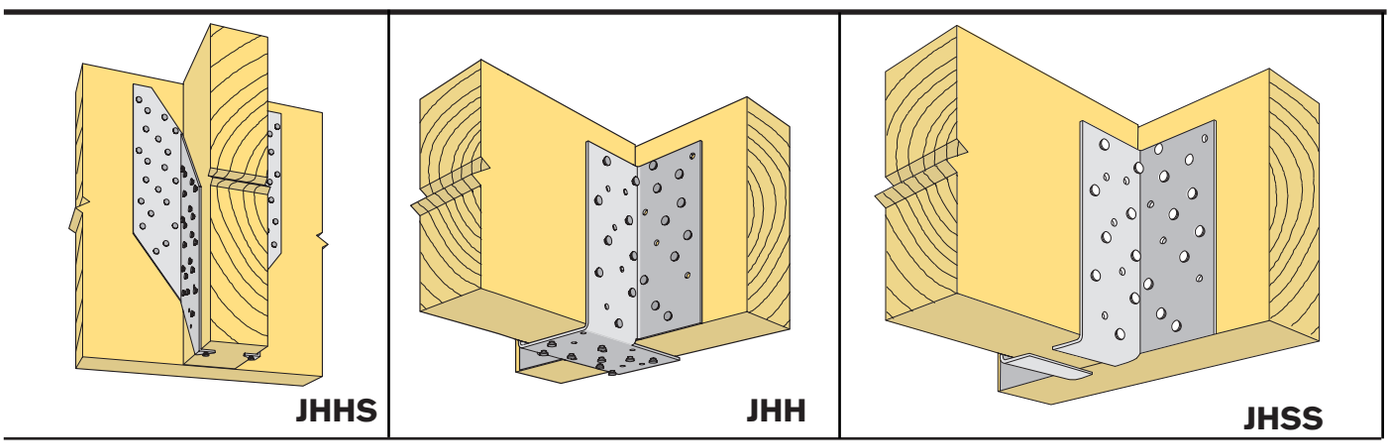
Design Loads

Beam to Beam Connection

Characteristic Strength Loads acting up/down (kN)	
J4	**J5**
34.8	25.5

Nail-on Joist and Split Joist Hangers

High capacity Joist Hangers suitable for timber various height and widths.



Features

The Pryda Nail-on Joints and Split Joist Hanger are the heavy duty hangers for situations requiring extreme characteristic strength loads.

Loadings

NAIL LOADS: Based on Pryda Product Nails nailed in SG8 Radiata Pine or Douglas Fir loaded perpendicular to the grain of the timber.

Design Loads

	Load Direction	Characteristic Strength Loads acting up/down (kN)	
		J4	J5
JHH75	Vertical (down)	34.7	25.4
	Vertical (up)	14.7	14.7
	Lateral	6.2	4.5
JHH100	Vertical (down)	39.8	29.1
	Vertical (up)	24.8	18.1
	Lateral	7.6	5.5
JHHS	Vertical (down)	37.2	27.2
	Vertical (up)	37.2	27.2
JHSS 212	Vertical (down)	44.8	36.6
	Vertical (up)	36.6	36.6
JHSS 275	Vertical (down)	54.2	46.7
	Vertical (up)	46.7	46.7
JHSS 401	Vertical (down)	76.8	/
	Vertical (up)	69.4	/

Specifications

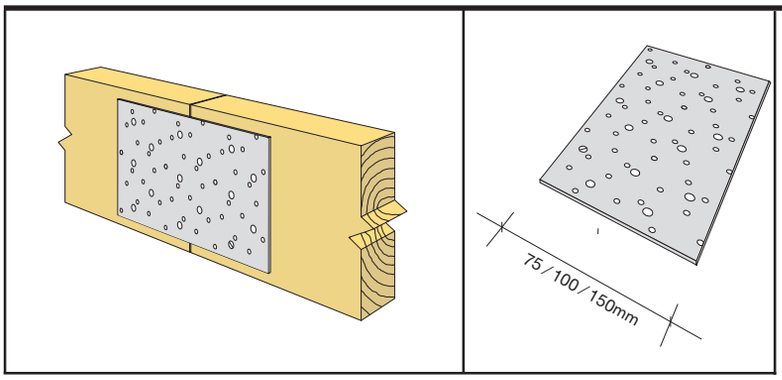
Material:	
JHH75 & 100 - 1.2mm G300 Z275 galvanised steel JHHS - 1.6mm G300 Z275 galvanised steel JHSS - 1.8mm G300 Z275 galvanised steel	
Product Code & Packing:	
JHHS	5 LH & 5RH per ctn
JHH75 or JHH100	10 per ctn
JHSS212	1 pair (1 LH & RH)
JHSS275	1 pair (1 LH & RH)
JHSS401	1 pair (1 LH & RH)

Nails

Use Pryda Product Nails (30mm x 3.15mm diameter Flat Head galvanised nails).

Nail-on Plate

A versatile high-strength timber connector.



Installation

Pryda Nail-on Plate provides a quick and economical means of providing a strong joint for many on-site applications.

Loads

Steel Strength (Per Pair of Plates)			
		1.0 mm	2.0 mm
Tension	Characteristic Strength	530 N/mm	1160 N/mm
	Tension Capacity	477 N/mm	1044 N/mm
Shear	Characteristic Strength	320 N/mm	840 N/mm
	Tension Capacity	288 N/mm	756 N/mm

Loads

Characteristic Strength (kN) (Per Pair. All Nail or Screw Holes Filled)						
		Plate Length (mm)				
	Plate Width	190 x 1	190 x 2	250 x 1	250 x 2	315 x 2
J4	75 mm	25.8	27.6	25.8	3.5	56.6
	100 mm	34.5	35.0	34.5	46.0	68.9
	150 mm	50.2	50.2	51.7	65.3	85.5
J5	75 mm	22.0	22.0	25.8	30.6	39.9
	100 mm	27.8	27.8	34.5	36.6	54.8
	150 mm	39.9	39.9	51.7	51.9	70.9

Installation

1. Place Nail-On Plate equally over joint. Normally used in pairs.
2. Use 30 x 3.15mm Pryda Product nails or 12g x 35mm hex head screws. Fill all nail or screw holes.

Specifications

Sizes: Width – 75, 100, 150mm

Material:
1.0mm G300 Z275 or G300 Z600 galvanised steel or stainless steel or 2.0mm G300 Z275 galvanised steel

Product Code & Packing		
NPA75 BAR*	1 x 75 x 1260mm	1
NPA75/190	1 x 75 x 190mm	40
NPA75/250	1 x 75 x 250mm	30
NPA75/315	1 x 75 x 315mm	25
NPA75/380	1 x 75 x 380mm	20
NPA100 BAR*	1 x 100 x 1260mm	1
NPA100/190*▵	1 x 100 x 190mm	28
NPA100/250	1 x 100 x 250mm	21
NPA100/315	1 x 100 x 315mm	17
NPA150 BAR*	1 x 150 x 1260mm	1
NPA150/190	1 x 150 x 190mm	20
NPA150/250	1 x 150x 250mm	15
NPA150/315	1 x 150 x 315mm	12
NPB75 BAR	2 x 75 x 1260mm	1
NPB75/380	2 x 75 x 380mm	10
NPB100 BAR	2 x 100 x 1260mm	1
NPB150 BAR	2 x 150 x 1260mm	1

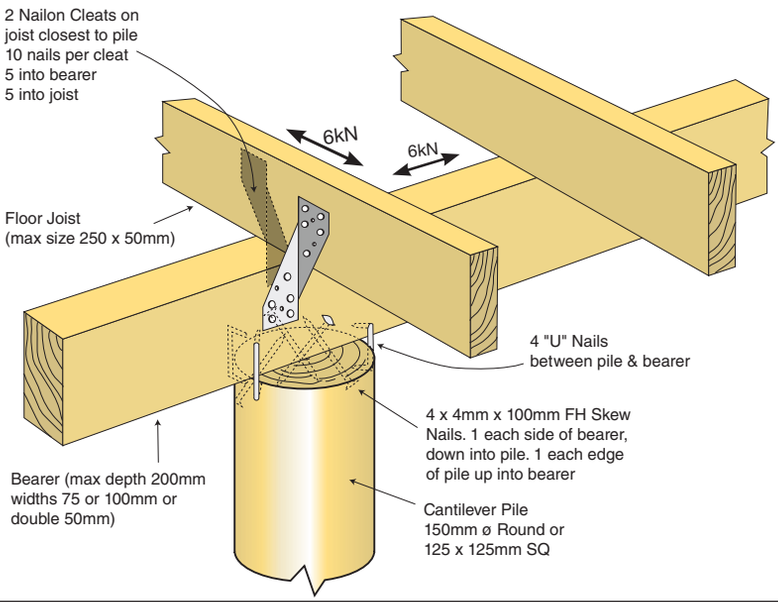
*Available in Stainless Steel ▵ Available in Z600

Can be cut and/or folded to customer requirements upon request at additional cost.

Pile-Bearer Kit

6 kN

6 kN Capacity Fixing of Cantilever Pile to Bearer and Joists.



Specifications

"U" Nails:	5mm diameter, 100mm shank and 50mm spikes (4 off)
Product Codes:	PBK6 PBK6S
Cleats	NPD150/63, 150 x 63 x 1 mm diagonally folded (2 off)
Nails	45 x 3.15mm Flat Head Square Twist (22 off)
	100 x 4.0mm Flat Head (4 off)
Material:	G300 Z600 galvanised steel Stainless steel.

6 kN HORIZONTAL CAPACITY Fixing of Bearer/ Joists to CANTILEVER PILE in accordance with NZS 3604:2011 Clauses 6.7.3.1,and 6.7.3.3.

Features

- Allows CANTILEVER Pile to be in line with and same height as other piles.
- Connection detail covers bearer sizes up to 200mm deep, joists up to 250mm deep.
- Design capacity verified by extensive testing program carried out by BRANZ.
- All components supplied as one complete package.
- Available in all stainless steel components for use in environments with severe corrosion risk.

Durability

Complies with NZ Building Code - Clause B2 for a structural component with 50 year durability.

PBK6: Standard Kit ("U" Nails and 100mm Nails Hot Dip Galvanised, Cleats hot dip galvanised or Z600 galvanised steel coil, 45mm nails HDG) - Not suitable for use in Zone D or geothermal zones. Components must be minimum 600mm above ground with the sub-floor vented to be 7000 mm^2/m^2 or less. See durability alternative solution table in this catalogue for Zone B and C.

PBK6S: Severe Corrosion Kit (All Grade 304 Stainless Steel Components) - suitable for all sea spray zone conditions.

Installation

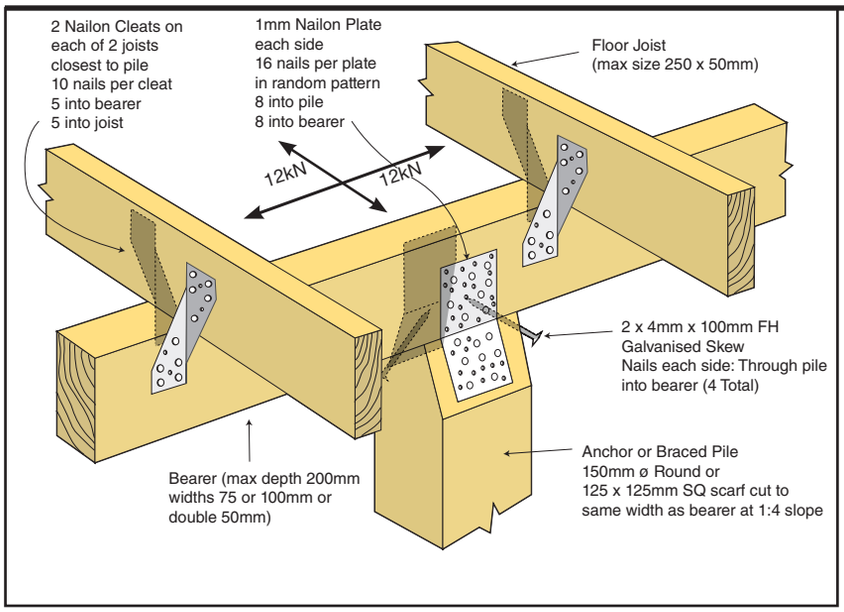
As detail drawing above but subject to the following:-

1. On round pile bearer must be central. Bearer may be offset on square pile but must not overhang edge.
2. Nail on cleats fix to joist closest to pile. At building corner where fixing to boundary joist is precluded fix cleats to next closest joist along bearer.
3. At external wall where joists do not overhang bearer enough for cleats to be fixed on outside face, they may be fixed to inside face only of that bearer provided a similar detail is used on the other side of the floor system.
4. Joist must have lateral support (blocking or perimeter joist) within 300mm of bearer in accordance with NZS3604:2011 cl 7.1.2.1.
5. All components must be protected after installation against wind-blown sea salt deposition by coating with 2mm thick grease, Selleys roof and gutter (silicone) sealant, or other approved coating.

Pile-Bearer Kit

12 kN

12 kN Capacity Fixing of Anchor/Braced Pile to Bearer and Joists.



Specifications

Nail-on Plates	190 x 100 x 1mm (2 off)
Product Codes:	PBK12 PBK12S
Cleats	NPD150/63, 150 x 63 x 1 mm diagonally folded (2 LH + 2 RH)
	Also available separately (packing 20 per carton)
Nails	45 x 3.15mm Flat Head Square Twist (74 off)
	100 x 4.0mm Flat Head (4 off)
Material:	G300 Z600 galvanised steel. Stainless steel.

12 kN HORIZONTAL CAPACITY Fixing of Bearer/ Joists to ANCHOR PILE or BRACED PILE, in accordance with NZS 3604:2011 Clauses 6.8.5, 6.8.6 and 6.9.3.

Features

- Allows ANCHOR/BRACED Pile to be in line with and same height as other piles.
- Connection detail covers both Anchor and Braced Piles, with bearer sizes up to 200mm deep, joists up to 250mm deep.
- Design capacity verified by extensive testing program carried out by BRANZ.
- All components supplied as one complete package.

Durability

Complies with NZ Building Code - Clause B2 for a structural component with 50 year durability.

PBK12: Standard Kit (Nail-on plates/Nails Hot Dip Galvanised or Z600 galvanised steel coil) - Not suitable for use in Zone D or the geothermal zones. Components must be minimum 600mm above ground and the sub-floor vented 7000 mm^2/m^2 or less in zones B & C.

PBK12S: Severe Corrosion Kit (All Grade 304 Stainless Steel Components) - suitable for all sea spray zone conditions.

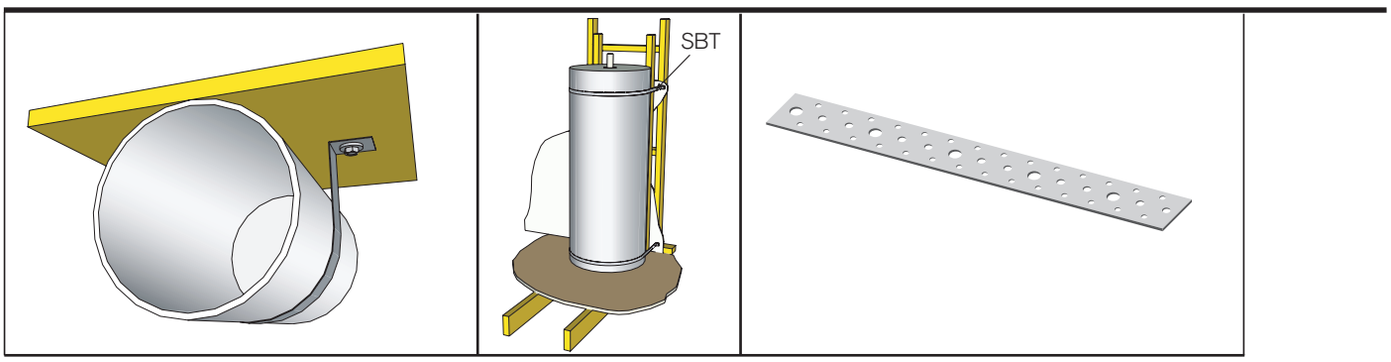
Installation

As detail drawing above but subject to the following:-

1. On round pile bearer must be central. Bearer may be offset on square pile but must not overhang edge.
2. Nailon cleats fix to two joists closest to pile. At building corner where fixing to boundary joist is precluded fix cleats to next two closest joists along bearer.
3. At external wall where joists do not overhang bearer enough for cleats to be fixed on outside face, they may be fixed to inside face only of that bearer provided a similar detail is used on the other side of the floor system.
4. Joists must have lateral support (blocking or perimeter joist) within 300mm of bearer in accordance with NZS3604:2011 cl 7.1.2.1.
5. Braced Piles - connection is required at top of both piles to which each brace attaches.
6. All components must be protected after installation against wind-blown sea salt deposition by coating with 2mm thick grease, Selleys roof and gutter (silicone) sealant, or other approved coating.

Plumbers Strap

Designed to restrain hot water cylinders.



Applications

Pryda Plumber's Strap has been developed as a seismic restraint for hot water cylinders and as a support for water pipes.

Installation

Make sure the hot water cylinder is flat on the floor and hard up against the wall using Pryda Plumber's Strap. Ensure that the straps are screwed to a stud. Tighten strap with strapbrace tensioners.

The number of straps required per hot water cylinder are as follows:

Characteristic Strength	Number of Straps Required
200 litres	2 straps
300 litres	3 straps
400 litres	4 straps

The above applies to EQ loads that can be expected as per NZS1170:2004.

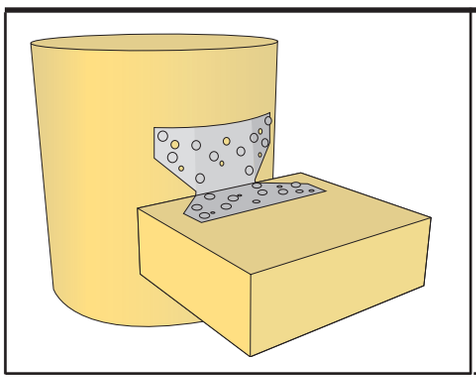
Hot water cylnders placed at heights exceeding 3 stories require special designs.

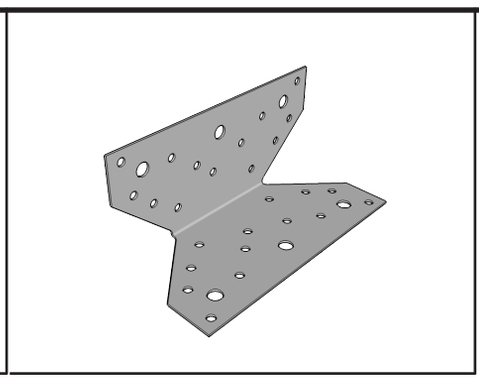
Specifications

Size:	25mm x 0.5mm x 30m
Material:	0.5mm G300 Z275 galvanised steel.
Product Code:	PS30
Packing:	Plumbers Strap, 30m coil – each.
Screws:	Type 17 screw 12g or better
Tensioner:	Strap Brace Tensioners (SBT)

Pole to Girt Bracket

A robust bracket fixing timber girts to poles.





Features

The Pryda Pole to Girt bracket provides a robust means of fixing timber girts to poles in Pole & Rafter buildings. The bracket is designed in a butterfly shape to easily wrap around the poles. The NPP2G is a variation of the multigrip but with greater extension into the connected member and with the addition of screw holes provides greater fiixing capacity.

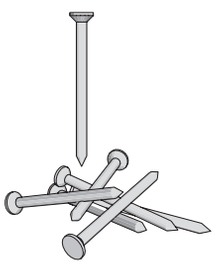
This bracket is also available in Stainless Steel for those situations in the sea spray zone or exposed conditions.

Specifications

Size	50/50 x 1.0 x 110mm	
Material	1.0mm G300 Z275 galvanised steel or stainless steel.	
Product Code	**Galvanised**	**Stainless**
	NPP2G	NPP2G/S
Packing	10 per ctn	each

Product Nails, Fasteners & Screws

For use with Pryda products.



Pryda Product Nails

Pryda Screws

Pryda Purlin Screws

Pryda Product Nails
Specifications

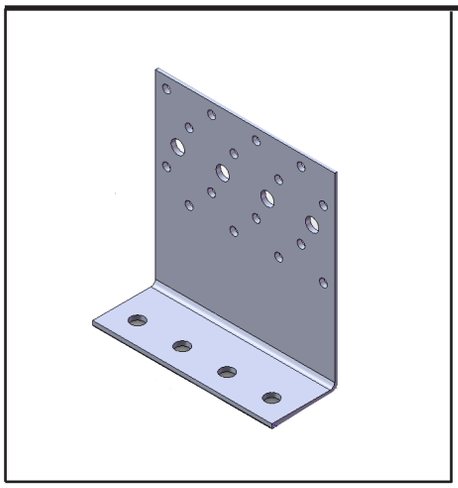
Sizes	30 x 3.15mm Galvanised Product Nails 30 x 3.15mm Stainless Steel Product Nails
Product Code & Packing	
GBH030315 - 1 x 5 kg box (approx 2,200 nails per box)	
GBC030315 - 1 x 500 g pack (approx 220 nails per box)	
CSB030315 - 1 x 500 g pack (stainless steel) (approx 203 nails per box)	

Pryda Screws
Specifications

Product Code	Size	Packaging
HH1235NS	12g x 35mm Hex head T17 Galvanised	100 per box
HH1235SS	12g x 35mm Hex head T17 Stainless Steel	100 per box
HH1475S	14g x 75mm Hex head T17 Galvanised	100 per box
PPS	10g x 100mm Sq Drive T17 Electro. Galvanised	200 per box

Sheet Brace Anchor

6kN or 12kN Capacity fixing (stud-to-plate) for sheet-braced wall panels.



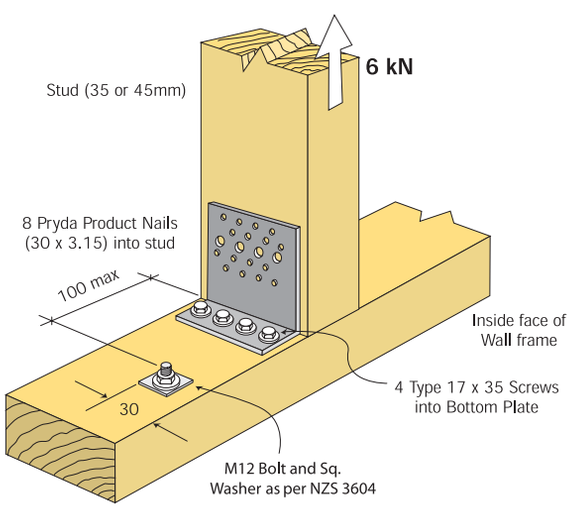
Advantages

- Provides 6kN capacity fixing of wall stud to bottom plate on a sheet-braced wall panel.
- Alternative to 6 or 12 kN Sheet Brace Strap fixing.
- Able to be retrofitted if external wall lining / cladding already installed.
- Use 2 connectors, one each face of stud, where 12kN fixing is required (e.g. Boundary fire wall – single storey garage).

Installation

An easy to use 6kN or 12kN capacity Wall Stud to bottom plate connection. Easily retrofitted.

Application



Specifications

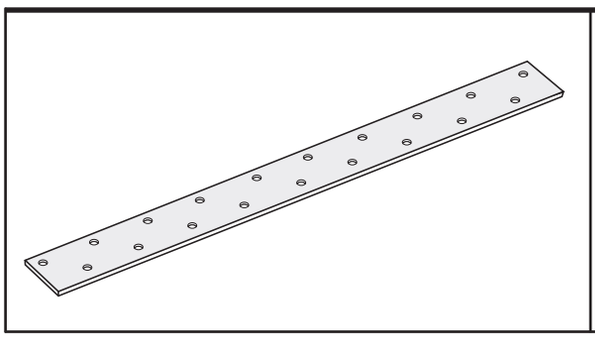
Material:	1.85mm G300 Z275 galvanised steel.
Product Code:	SBA
Packing:	1 carton contains 5 bags (Each bag contains 2 brackets, 8 screws and 16 Pryda Product Nails)
Nails & Screws:	30 x 3.15mm hot dip galvanised Pryda Product Nails
	12g x 35mm hex head T17 galvanised screws.

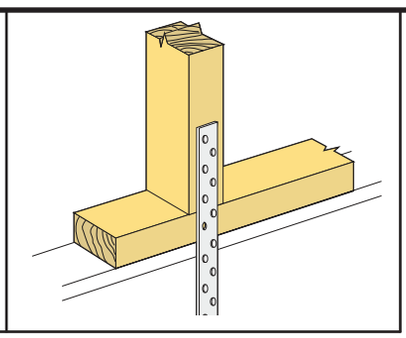
Installation

Locate fixing hard against face of stud and roughly central about stud width. Fix 4 screws down into bottom plate through the four holes in the narrow flange. Nail with 8 nails supplied into stud (spread nails evenly over nailing area – not all nail holes will be filled). Note: A 6kN fixing of bottom plate to concrete (eg. One M12 bolt) is required within 100mm of the 6kN stud to plate fixing.

Sheet Brace Straps

6kN or 12kN Capacity fixing for sheet-braced wall panels.



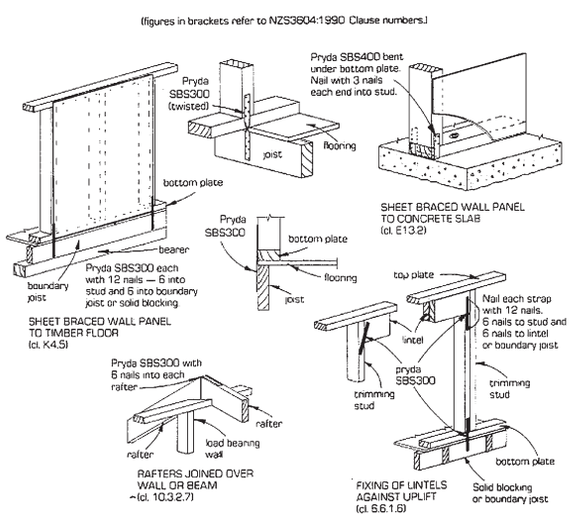


Features

Mild steel strap fixing complying with the requirements of NZS3604:2011 for a 6kN Capacity Strap. Use 2 straps, each with nailing as below, where 12kN Capacity fixing is required. Where straps longer than 600mm are required 10m & 30m coils are now available. The coils can easily be cut to the required length.

Applications

Nails with 6 nails at each end of strap for 6KN Capacity fixing. Use Pryda product nails (30 x 3.15mm Hot Dip Galvanised Bracket Nails).



Specifications

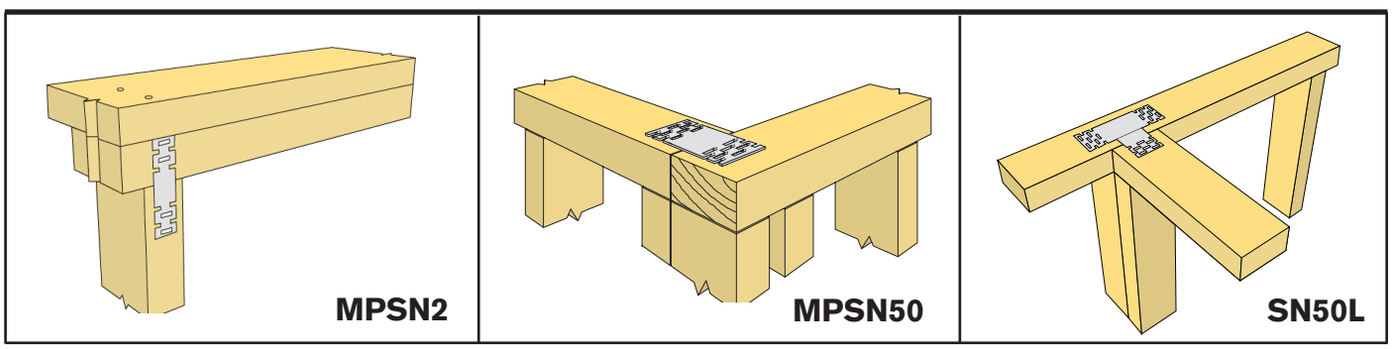
Sizes:	25 x 1.0 x 300mm	
	25 x 1.0 x 400mm	
	25 x 1.0 x 600mm	
	25 x 1.0mm x 10m	
	25 x 1.0mm x 30m	
Material:	1.0mm G300 Z275 galvanised steel coil or stainless steel.	
Product Code:	**Galvanised**	**Stainless**
	SBS300	SBS300/S
	SBS400	SBS400/S
	SBS600	SBS600/S
10m coil	SBS10M	
30m coil	SBS30M	
Packing:	Galvanised Steel:	50 per ctn
	Stainless Steel:	10 per ctn
	Coils:	each.
Nails:	30 x 3.15mm Pryda Product Nails.	

Installation

Refer to Pryda Building Guide.

Strap Nail

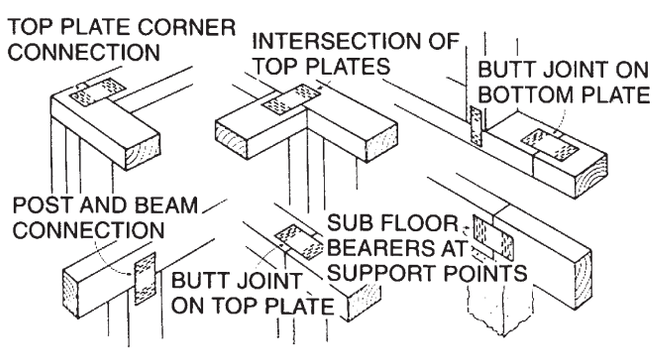
A claw toothed steel plate for speedy connection of timber.



Features

Pryda Strap Nail, a pre-punched nailplate which offers a quick, simple, economical and easy to use method of jointing timber plates normally jointed by more time consuming methods. Pryda Strap Nail uses the sharper tooth profile featuring the exclusive pre-punched twisted nail. This results in increased holding power due to better penetration of all timber types.

Application



Specifications

Product Code:	MPSN2 SN25	MPSN50 SN50	SN50L
Size:	25mm x 100mm	50mm x 100mm	50mm x 150mm
Packing (per ctn):	180 300	75 130	70
Capacity:	2.3kN	4.6kN	6.0kN
Load parallel or perpendicular to grain in SG8 Pine or Douglas Fir			
Material:	1.0mm G300 Z275 galvanised steel.		

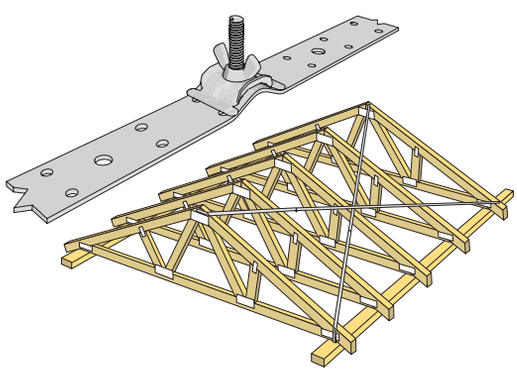
Installation

Simply position Strap Nail over joint and hammer into place.

NOTE: When used in subfloor applications additional corrosion protection by hot-dip galvanising is required to comply with the durability provision of the N.Z. Building Code. Table 4.1 NZS3604:2011.

Strapbrace & Maxi Strap

Convenient multi-purpose bracing for roofs, ceilings and walls.



Truss and Rafter Bracing

Applications

Pryda Strapbrace is suitable for bracing walls and truss/rafter roof construction (spans up to 12m) in residential buildings. Use Pryda Maxi Strap for larger spans and commercial and industrial buildings. Pryda Tensioners provide a fast, reliable and simple method of tensioning long lengths of bracing strap.

Pryda Strapbrace complies with NZS3604:2011 Light Timber Frame Buildings, requirements for metal bracing strip with 8kN capacity, but is not suitable for use as holding down straps on braced wall panels. Use Pryda Sheet Brace Straps for this application.

Pryda Strapbrace and Maxi Strap act in tension only. Braces must be applied in pairs as illustrated. Holes are pre-punched for Pryda Product Nails 30 x 3.15mm and 6mm tensioner bolts.

Specifications

Product Code Galvanised	Size	Packing
SB10	Strapbrace 10m (25mm)	each
SB10T	Strapbrace 10m plus 5 tensioners (25mm)	each
SB30	Strapbrace 30m (25mm)	each
SB30T	Strabrace 30m with 5 tensioners (25mm)	each
SBT	Strapbrace Tensioners - 8 bags of 5	1 ctn
SBI/10	Maxi Strap 10m (50mm)	each
SBI/15	Maxi Strap 15m (50mm)	each
SBI	Maxi Strap 30m (50mm)	each
SBI/T	Maxi Strap Tensioner	each
Stainless Steel		
SB15/S	Strapbrace 15m (25mm)	each
SBT/SS316	Strapbrace Tensioner (25mm)	each
SBI/S	Maxi Strap 30m (50 mm)	each
SBI/TS	Maxi Strap Tensioner	each
Material:	Strapbrace: 25 x 0.8mm G550 Z275 galvanised or stainless steel	
	Maxi Strap: 50 x 0.8mm G550 Z275 galvanised or stainless steel	

Loads (Wind only)

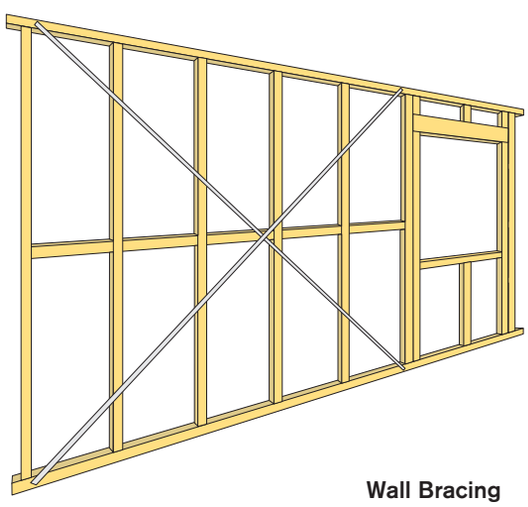
Steel Strength	Characteristic Strength (kN)	Wind Loading (kN)
Strapbrace	8.2	6.6
Maxi Strap	16.4	13.2

Strapbrace & Maxi Strap

Continued.

Wall Bracing

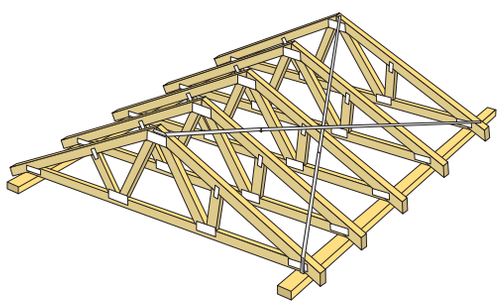
- Make sure wall frame is approximately square. Nail end of brace to the top wall plate within 150mm of a stud, using 3 x Pryda Product Nails 30 x 3.15mm. Unroll brace coil at angle of approximately 45˚ and cut to length. Tighten by pulling down onto bottom wall plate. Nail within 150mm of stud with 3 nails.
- Fix another brace in the same way diagonally opposite the first length. The two braces must cross to form a strong rigid brace. Fit tensioners (usually one per 3.6m length of brace) and plumb frame. Nail braces to intermediate studs with 2 nails after tensioning braces.



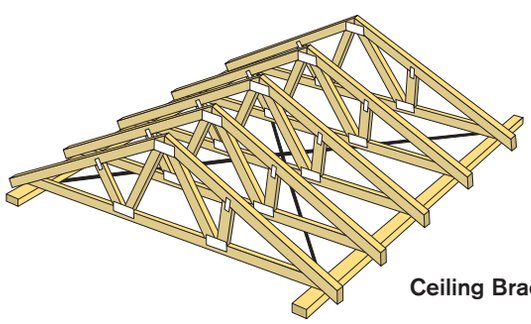
Wall Bracing

Roof and Ceiling Bracing

Use in crossed pairs as for wall braces. For residential construction in accordance with NZS3604:2011, secure braces with 6 nails (12 nails for Maxi Strap) at each end, and 2 nails (after tensioning braces) at truss/ rafter or Purlin crossing.



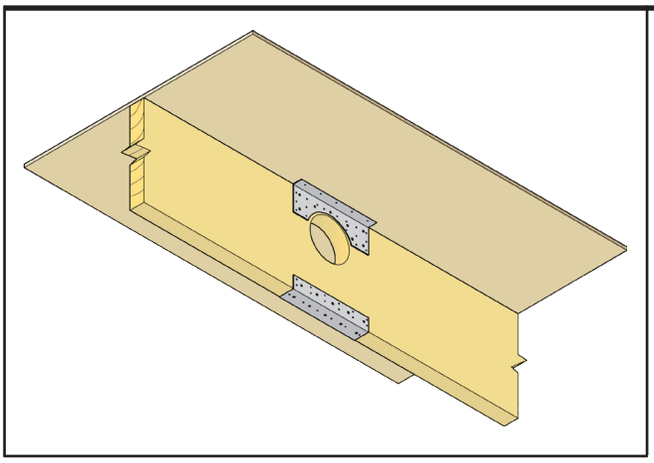
Truss and Rafter Bracing



Ceiling Bracing

Stren-Joist

Re-instates integrity of penetrated joists.



Specifications

Material:	1.6mm Z275 galvanised steel.
Product Code:	NPSJ
Each kit contains:	1 x 'U' channel, 2 x arched angles, 1 x 500gm of Pryda Product Nails and 10 /8g x 20mm screws. (If the hex screw fixing option is used then 30 /12g x 35mm hex head type #17 galvanised screws are required.
Packing:	1 per carton

Features

The Pryda Stren-Joist has been designed to allow holes to be cut in floor joists to enable pipes, wiring or other services to be passed through the joist. The fitting of a Pryda Stren-Joist re-instates the integrity of the penetrated joist.

Advantages

- Quick and easy to install
- Fixing option of either nailing or screwing.
- Note—Fixing to the flooring must be done with screws provided. All other holes can use either nails or screws
- Can be retro-fitted. There is no requirement to remove services to fit the Stren-Joist
- Comes in one size, designed to fit 140—290mm joists
- Allows an easy solution to fix penetrations in floor joists made by other trades
- Timber grade can be SG8 or better
- The edge of the penetration shall be at least the joist depth from the end of the joist
- All components are available in a single kit - Pryda Code NPSJ.

Installation

The Pryda Stren-Joist retrofit installation is self-evident and normal good building practice is assumed during installation. The product is suitable for the all joist sizes between 140 x 45mm to 290 x 45mm but is not suitable for 90 x 45mm joist.

Application

The Pryda Stren-Joist is intended to re-instate the structural integrity of joist that has suffered service holes after erection. The hole can be made in any position along the span of the joist provided that the hole edge is not closer than one joist depth from the end supports of the joist.

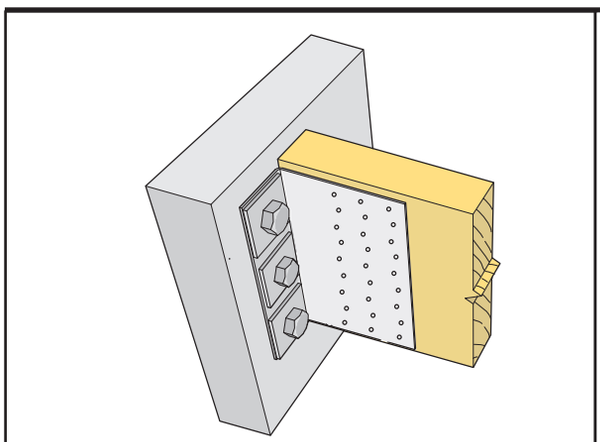
Durability

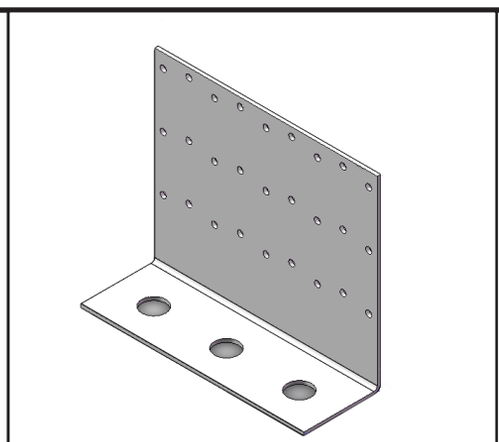
The durability of the Pryda Stren-Joist is in accordance with the acceptable solutions contained in Table 4.1 of NZS3604:2011 and is intended for internal "closed spaces". It is not suitable where this table specifies 304 stainless steel products.

Maximum Joist Penetration	
Joist Size	**Max Hole size**
140 x 45	72mm
190 x 45	122mm
240 x 45	125mm
290 x 45	125mm

Tim-Con Bracket

Ideal fixing for concrete to timber beam connection.





Applications

NAILS: Pryda Product Nails 30 x 3.15mm.
The brackets have 32 nail holes in the TCF130, and 48 nail holes in the TCF190. See the load chart below for the nails required for each application.

BOLTS: Use 3/12mm dia. bolts per bracket in the 14mm bolt holes. Always use the 3/37 x 37 x 3mm washers provided.

Loads

BOLTS: Use 12mm diameter anchor bolts such as Reid SA12-75 Sleeve Anchor (in concrete) or HSB12/100 Reid Hexagon Screw Bolt (in filled blockwork) applied strictly in accordance with manufacturer's instructions.

Alternatively, 12mm cast-in bolts or chemical anchors may be used - consult our Pryda engineers. Because the bolt load is critical (rather than the nails or bracket), and bolt strength varies with different concrete grades, bolt spacing, embedment length and edge distance, IT IS THE RESPONSIBILITY OF THE SPECIFIER to check the adequacy of the bolts in each application.

Typical bolt loads are shown for Reid SA12-75 bolts embedded in 17.5 MPa concrete, with a minimum of 75mm edge distance. For other anchorage conditions consult the bolt manufacturer's literature.

Specifications

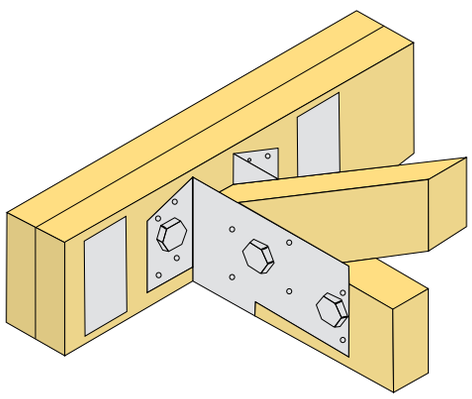
Sizes	Flanges 40 x 110mm, width 130 or 190mm
Material	2.0mm G300 Z275 galvanised steel.
Product Code & Packing	
TCF130	20 per carton
TCF190	10 per carton

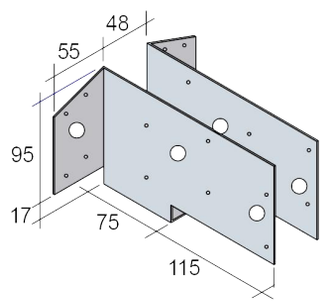
NAILS: Pryda Product Nails
To match the bolt strength in all cases, use 25 Pryda Product Nails per TCF130 and 32 nails per TCF190.

Loads (limit state design)	Shear (kN)		Tension (kN)	
Ø = 0.7 for Concrete	TCF130	TCF190	TCF130	TCF190
Single TCF (2 bolts)	11.8	20.4	12.1	14.6
Pair TCF (4 bolts)	14.5	24.6	20.1	24.2

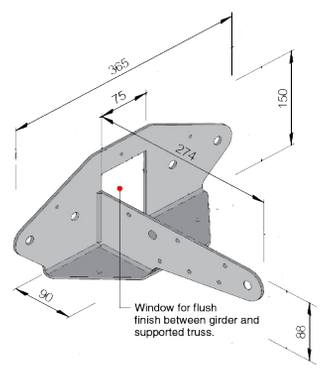
Truss Boots

A high strength metal bracket for truss to truss connections.





TB45/16



TBHD7

Features

TB45/16: This Pryda Multi-Fix Truss Boot is used to connect roof trusses or other roof members to supporting girder truss. 'Multifix' means that these connectors can be fixed with bolts or screws or bolts and screws together.

TBHD7: The long anti-rotation leg and heavy duty steel of Pryda Heavy Duty Truss Boots, combined with the inherent high stiffness of the carried truss, prevents twisting of the bottom chord of the girder. Consequently, anti-rotation bars are not necessary.

SCREWS: 12g x 35mm Type 17 hex head screws. See load chart below for the number required.

BOLTS:

- M12 bolts must be fitted with nuts and 55mm diameter or 50 x 50 x 3mm square washers
- M16 bolts must be fitted with nuts and 65mm diameter or 57 x 57 x 4mm washers.

Specifications

TB45/16:

Material:	1.6mm G300 Z275 galvanised steel
Packing:	each

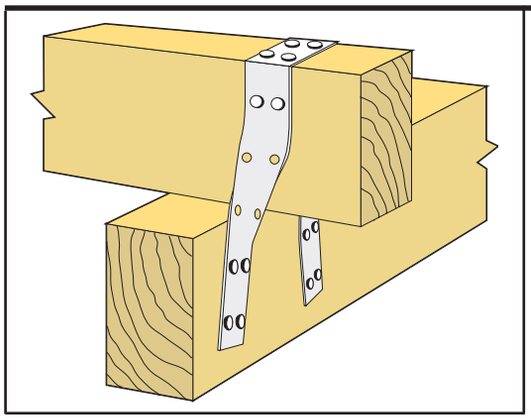
TBHD7:

Material:	4.0mm hot dipped galvanised steel
Packing:	each

Product Code	To Girder Truss	To Supported Truss	Characteristic Strength Up & Down
TB45/16	2 x M16 Bolts or 8 Screws or Bolts + Screws	2 x M12 Bolts or 12 Screws or Bolts + Screws	18.2 kN
TBHD7	4 x M16 Bolts	2 x M16 Bolts	35.7 kN

Windstrap

Convenient strap to tie down trusses.



Features

Pryda Windstrap 400 is ideal for holding down 75 x 50mm and 100 x 50mm purlins in high wind areas.

Pryda Windstrap 600 is used to hold down purlins larger than 100 x 50mm.

Pryda Windstrap 600 is ideal for holding down trusses against wind uplift.

Extra hold-down is obtained by bending the Windstrap legs around the supporting member (e.g., top plate).

Supplied flat with twisted legs. Can be bent to suit ex-35 or 50mm wide timber.

Loads

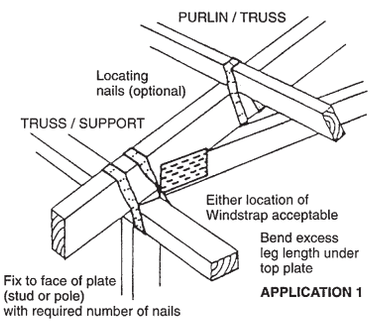
Loads Direction	Characteristic Strength (kN)	
	J4	J5
Steel	12.4	12.4
3 nails/leg	6.5	4.7
4* nails/leg	8.6	6.3
5* nails/leg	10.8	7.9
5** nails/leg	12.4	12.4

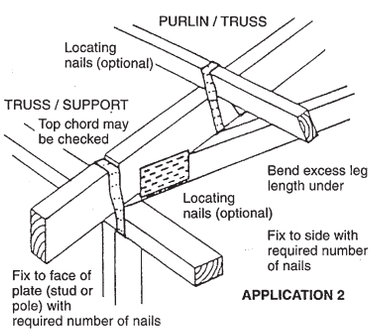
Windstrap has a max. design capacity for wind uplift as follows: 11.6kN for J4 and J5
* Require 70mm or 90mm deep top plate.
** With strap wrapped under support member.

Specifications

Sizes	25 x 1.0 x 400mm or 600mm
Material	1.0mm G300 Z275 galvanised steel
Product Code & Packing	
WS4E (400mm flat)	100 per carton
WS6E (600mm flat)	100 per carton

Applications



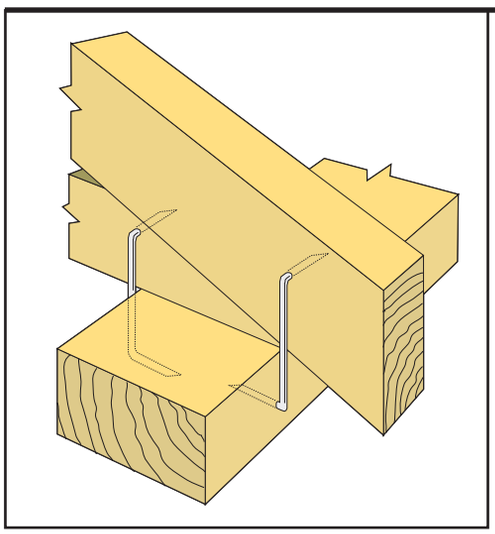


Installation

Slip Windstrap over timber and locate so that strap will pull into timber under tension load. Nail with Pryda Product Nails 30 x 3.15mm, as specified by the designer.
For higher design loads bend strap ends under support member and nail with at least 2 nails.

“Z” and “U” Nails

A cost effective fixing for holding down purlins, top plates and trusses.



Specifications

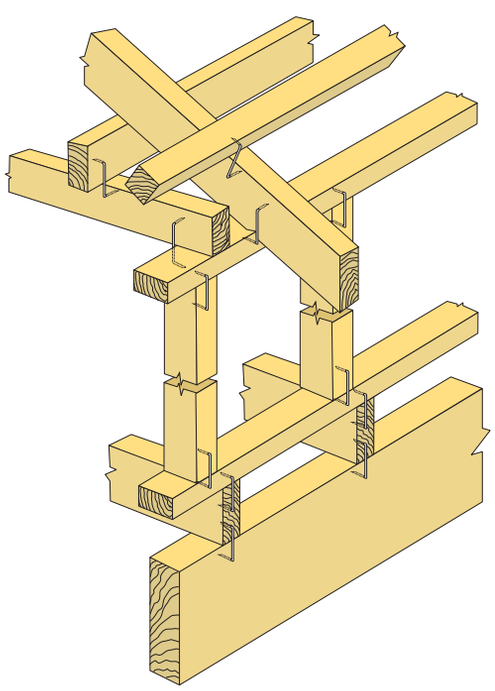
Sizes	100mm long/40mm over spikes (at 85° to leg)	
Material	5mm diameter mild steel manufacturing wire galvanised or stainless steel.	
Product Code & Packing		
ZL, ZR, ZU	500	Fabricator Pack
MPZL. MPZR, MPZU	100	Merchant Pack
MPZL/S, MPZR/S, MPZU/S	100	Stainless Steel

Features

The “Z” Nail is a cost effective means of holding down purlins to rafters, rafter and joists to plates, joists to beams, etc.

“Z” Nails are self nailing and easy to apply with the 85° angle of the nail to the shaft enabling the nails to draw the timbers to each other.

*** “Z” and “U” Nails fixed in subfloor framing applications must be stainless steel when fixed within 600mm from the ground, (refer Table 4.1 NZS3604:2011).**



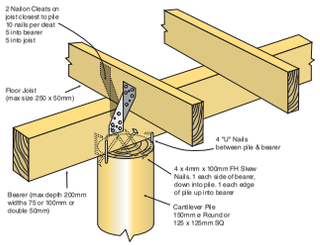
Loads

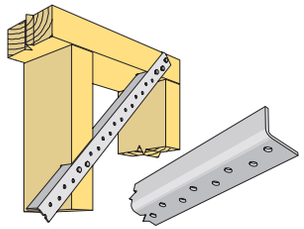
Loads Direction	Characteristic Strength (kN)
“Z” Nail	3.2
“U” Nail	3.1

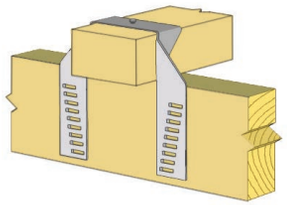
pryda®

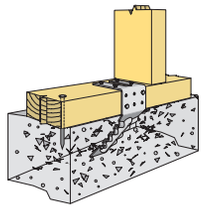
Substitution Guide

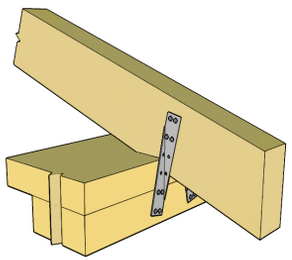
Please Note: Whilst reference is made to competitor products it is intended as best fit only and may not be an identical match - if in doubt check.











6kN & 12kN Pile Bearer Kit (Subfloor Fixings)

Competitor Code	Pryda Code
6KNM	PBK6
6KNH	PBK6/S
12KN/12KNM	PBK12
12KNH	PBK12/S
CT160HD	NPD150/63*

Angle Brace (Angle Brace)

Competitor Code	Pryda Code
AB30	AB30
AB33	AB33
AB36	AB36
AB42	AB42
AB48	AB48

Batten/Purlin Fixing

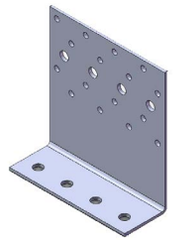
Competitor Code	Pryda Code
—	BS70*
BlueScrew	PPS

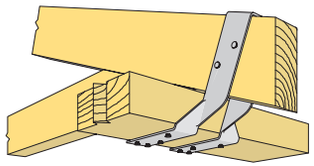
Bottom Plate Tie-Down (Bottom Plate Fixing Anchor)

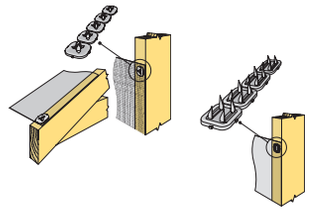
Competitor Code	Pryda Code
BPA	BPA
HBA	HBA

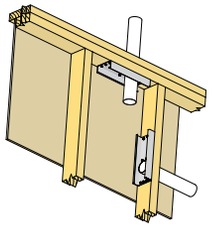
Ceiling & Purlin Hanger (Ceiling Tie)

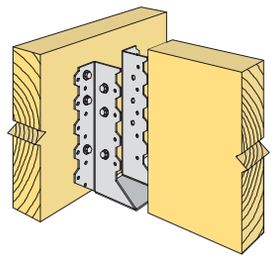
Competitor Code	Pryda Code
CT160LH	CPH126-LH*
CT160RH	CPH126-RH*
CT200LH	CPH190-LH*
CT200RH	CPH190-RH*











Concealed Purlin Cleat (Concealed Purlin Cleat)

Competitor Code	Pryda Code
CPC40	NPPC4*
—	NPPC6
CPC80	NPPC8*

Cyclone Straps (Cyclone Ties)

Competitor Code	Pryda Code
CT400	MPQHS4
CT600	MPQHS6
—	QHS9

Pryda Fix & Foil Fix (Little Gripper)

Competitor Code	Pryda Code
LG	SFI
	SFF

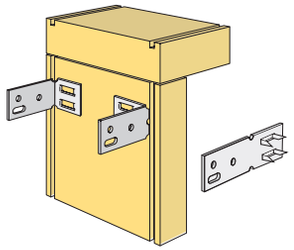
Frame Fix (Top Plate / Framing Stud Stiffener)

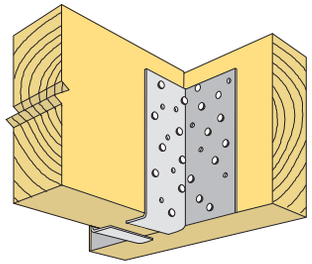
Competitor Code	Pryda Code
TPS & FSS	PFF

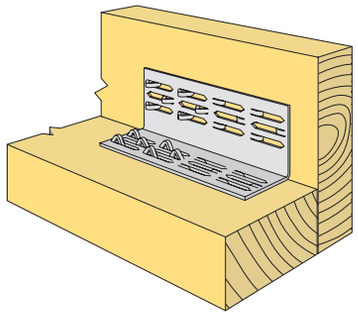
Framing Brackets (Joist Hangers)

Competitor Code	Pryda Code
JH3790	MPFB3890
JH4790	MPFB4590*
JH47120	MPFB45120*
JH47190	MPFB45180*
JH5290	MPFB5274*
JH52120	MPFB52124*
JH52190	MPFB52174*
—	FB65/170
JH70	FB69/165
JH95	FB94/152*

* All available in stainless steel. Please Note: Whilst reference is made to competitor products it is intended as best fit only and may not be an identical match - if in doubt check.







Jamb Ties

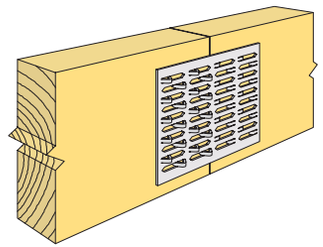
Competitor Code	Pryda Code
—	JT58
—	JT75
—	JFB100

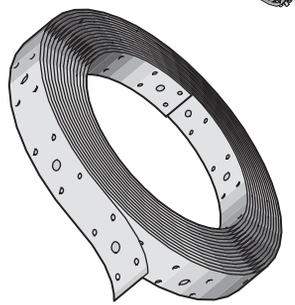
Joist Hangers Heavy Duty (Tylok Plate)

Competitor Code	Pryda Code
SPH140	JHH75
SPH180	JHH100
SPH220	JHHS
—	TB45/16
—	TBHD7

Knuckle Angle Nailplates (Tylok Angle)

Competitor Code	Pryda Code
	Internal
—	MP2RA
3A6 (Int.)	MP3RA
—	MP4RA
6A6 (Int.)	MP6RA
	External
—	MP2RAE
3A6 (Ext.)	MP3RAE
—	MP4RAE
6A6 (Ext.)	MP6RAE





Knuckle Nailplates (Tylok Plate)

Competitor Code	Pryda Code
2T4	MP2R4
2T5	MP2R5
4T5	MP4R5
6T5	MP6R5
8T5	MP8R5
10T5	M10R5
12T5	M12R5
2T10	MP2R10
4T10	MP4R10
6T10	MP6R10
8T10	MP8R10
10T10	MP10R10
12T10	MP12R10
-	MP2R16
4T15	MP4R16
6T15	MP6R16
8T15	MP8R16
10T15	MP10R16
12T15	MP12R16

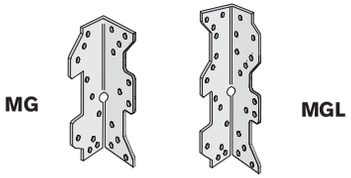
Knuckle Nailplates Coil (Tylok Coil)

Competitor Code	Pryda Code
Coil T5	NCR5
Coil T10	NCR10
Coil T15	NCR16

Maxi Strap (Multi-brace)

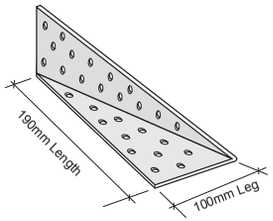
Competitor Code	Pryda Code
MB10	SBI/10
MB15	SBI/15
MB30	SBI*
MBTENS	SBI/T

* All available in stainless steel. Please Note: Whilst reference is made to competitor products it is intended as best fit only and may not be an identical match - if in doubt check.



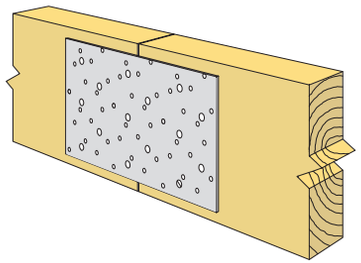
Multigrip (Multigrip)

Competitor Code	Pryda Code
—	MG* or MPMG*
MGS	MGL



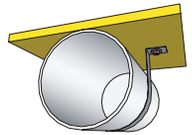
Nail-on Angle & Diagonal Cleats (Diagonal Cleat)

Competitor Code	Pryda Code
NP160F	NPA
N21	NPD



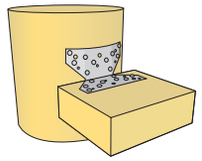
Nail-on Plate (Nail On Plate)

Competitor Code	Pryda Code
—	NPA75 BAR*^
—	NPA75/190
—	NPA75/250
—	NPA75/315
—	NPA75/380
—	NPA100BAR*^
NP120	NPA100/190*
—	NPA100/250
—	NPA100/315
—	NPA150BAR*^
—	NPA150/250
—	NPA150/315
RAFTERSPLICE	NPB75/380
—	NPB75 BAR^
NP2	NPB100BAR^
—	NPB150BAR^



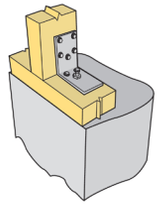
Plumbers Strap (Plumbers Strap)

Competitor Code	Pryda Code
—	PS30



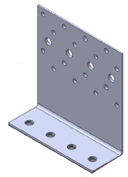
Pole to Girt Bracket (Girt Plate)

Competitor Code	Pryda Code
GIRTPLATE	NPP2G*



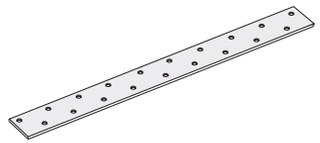
Pryda Brace Anchor (GIB HandiBrac)

Competitor Code	Pryda Code
GIB HandiBrac	PBA



Sheet Brace Anchor

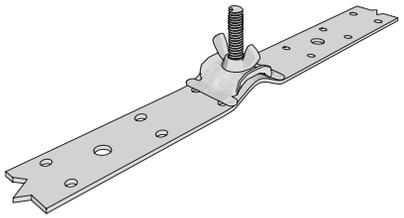
Competitor Code	Pryda Code
SBP	SBA



Sheet Brace Strap (Sheet Brace Strap)

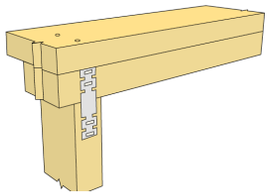
Competitor Code	Pryda Code
SBS3100	SBS300*
SBS4100	SBS400*
SBS6100	SBS600*
SBS10EX	SBS10M
SBS30EX	SBS30M

* All available in stainless steel. Please Note: Whilst reference is made to competitor products it is intended as best fit only and may not be an identical match - if in doubt check.



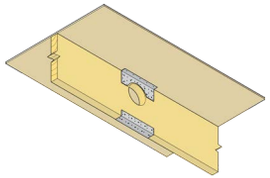
Strap Brace
(Strip Brace)

Competitor Code	Pryda Code
SB10	SB10*
SB10T	SB10T
SB30	SB30
SB30T	SB30
SBTENS	SBT*
SSSB10	SB15/S
—	SBT/SS316



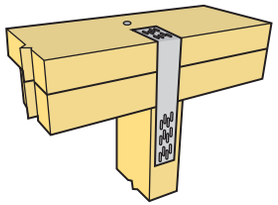
Strap Nail
(Strap Nail)

Competitor Code	Pryda Code
SNS	SN25 or MPSN2
—	SN50 or MPSN50
—	SN50L



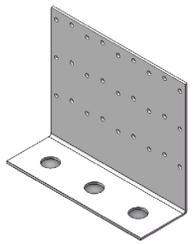
Stren-Joist

Competitor Code	Pryda Code
—	NPSJ



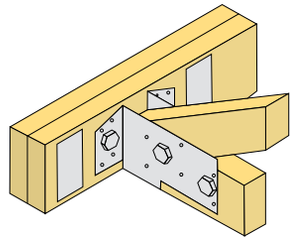
Stud Tie
(Stud Tie)

Competitor Code	Pryda Code
STUDSTRAP	SST
STUDTIE3	ST3
STUDTIE4	ST4



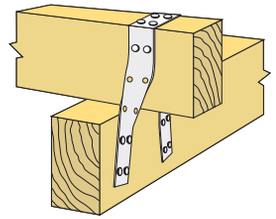
Tim-Con Brackets
(Concrete Fixing Cleat)

Competitor Code	Pryda Code
CF1	TCF130
CF2X	TCF190



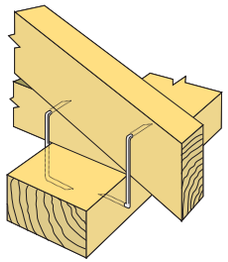
Truss Boots

Competitor Code	Pryda Code
—	TB45/16
—	TBHD7



Windstraps

Competitor Code	Pryda Code
—	WS4E
—	WS6E

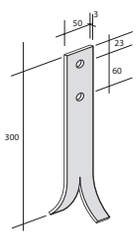


Z & U Nails
(Wire Dogs)

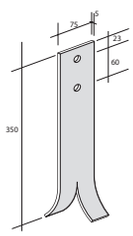
Competitor Code	Pryda Code
WDRHS	MPZR/ZR
WDLHS	MPZL/ZL
WDSS	MPZU/ZU

* All available in stainless steel. Please Note: Whilst reference is made to competitor products it is intended as best fit only and may not be an identical match - if in doubt check.

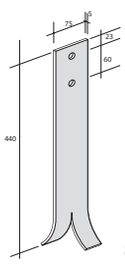
Structural Brackets



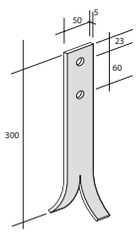
SBK2/S



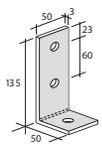
SBK3 ■
(B78)



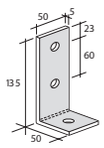
SBK3H ■
(B79)



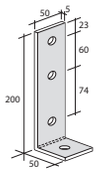
SBK4 ■
(B75)



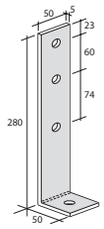
SBK10
(B351)



SBK10A ■
(B51)



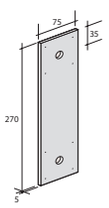
SBK11A
(B52)



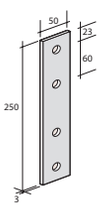
SBK12A
(B53)

SBK14
(B350)

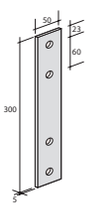
SBK14A ■
(B55)



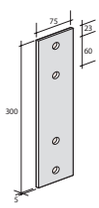
SBK21
(B86)



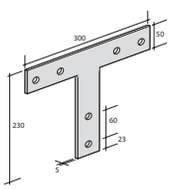
SBK22 ■



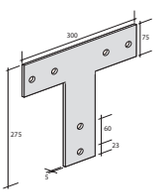
SBK23 ■
(B85)



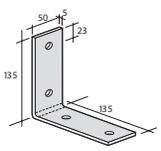
SBK25 ■
(B88)



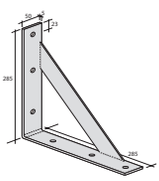
SBK27 ■
(B35)



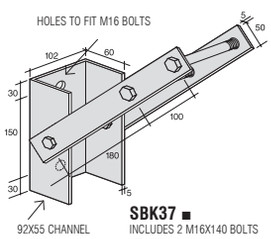
SBK28
(B38)



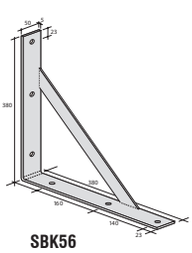
SBK34 ■



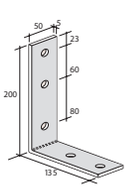
SBK36 ■
(B163)



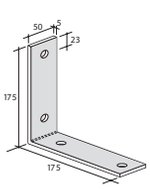
SBK37 ■
INCLUDES 2 M16X140 BOLTS
(B155)



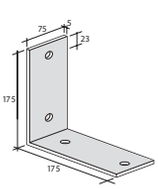
SBK56
(B165)



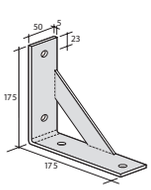
SBK52A
(B54)



SBK53
(B55)

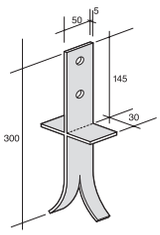


SBK53A
(B58)

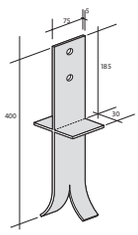


SBK55
(B65)

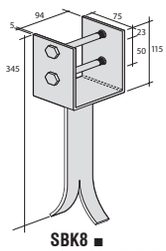
All bolt holes to accommodate M12 bolts unless noted * Brackets with holes for 6mm countersunk screws. ° Also available in Stainless Steel
Whilst reference is made to competitor products it is intended as best fit only and may not be an identical match - if in doubt check.



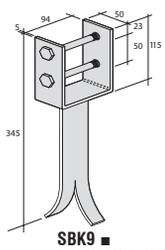
SBK5 ■
(B195)



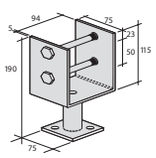
SBK6 ■
(B197)



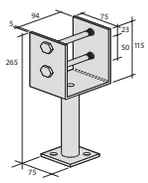
SBK8 ■
INCLUDES 2 M12X120 HDG BOLTS
(B138)



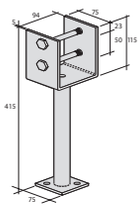
SBK9 ■
INCLUDES 2 M12X120 HDG BOLTS
(B135)



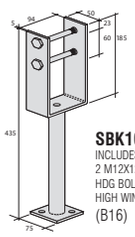
SBK15
INCLUDES 2 M12X120 HDG BOLTS
(B12)



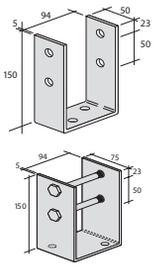
SBK16 ■
INCLUDES 2 M12X120 HDG BOLTS
(B14)



SBK16B
INCLUDES 2 M12X120 HDG BOLTS
(B18)

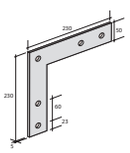


SBK16H
INCLUDES
2 M12X120
HDG BOLTS.
HIGH WIND
(B16)

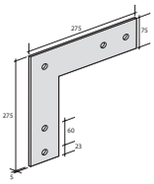


SBK17 ■
12MM BOLTS
INCLUDED.
MASONRY
ANCHOR NOT
SUPPLIED
(B25)

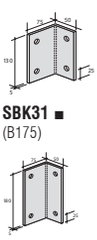
SBK18 ■
12MM BOLTS
INCLUDED.
MASONRY
ANCHOR NOT
SUPPLIED
(B28)



SBK29 ■
(B45)

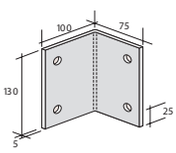


SBK30
(B48)

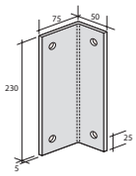


SBK31 ■
(B175)

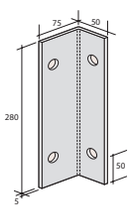
SBK31A ■
(B176)



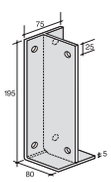
SBK32 ■



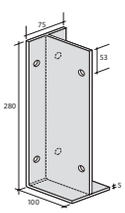
SBK33 ■
(B177)



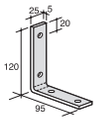
SBK33A
(B178)



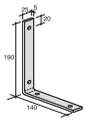
SBK38 ■
(B108)



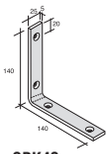
SBK38A
(B109)



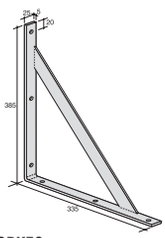
SBK41
(B553)



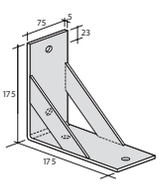
SBK42
(B554)



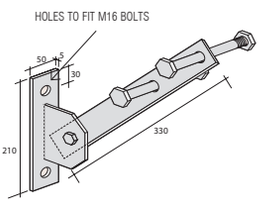
SBK43



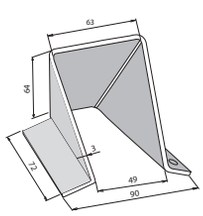
SBK50
(B567)



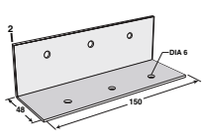
SBK55A
(B68)



SBK57 ■
INCLUDES 2 M16X120 BOLTS
(B145)



SBKFS
(BSB2)



P2BB ■

Whilst reference is made to competitor products it is intended as best fit only and may not be an identical match - if in doubt check.

Notes

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