

# I-JOIST HANGER

## FEATURES AND BENEFITS

**VERSATILE:** Multiple sizes available to cover all common I-Joist sizes.

**EASY:** Comes with the fasteners required, including screws to prevent squeaking.

**STRONG:** 1.2mm thick galvanised steel for the full depth of the I-Joist. Engineered to resist gravity loads and lateral movement of the I-Joist flanges.

## SPECIFICATIONS

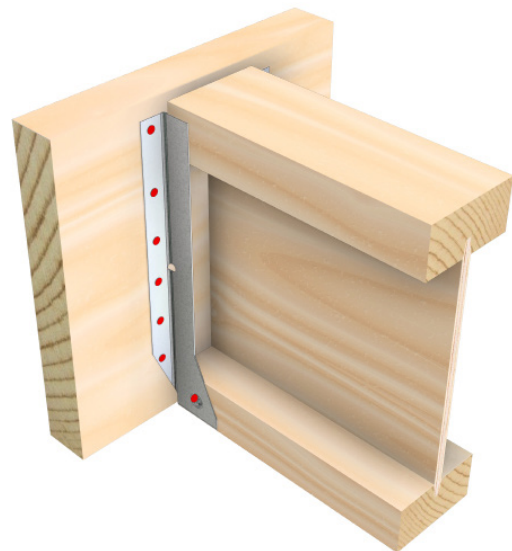
STEEL	G300
THICKNESS	1.2mm
CORROSION RESISTANCE	Z275
FASTENERS INCLUDED	Pryda 40x3.75mm Timber Connector Nails (Note this is a different size from the standard 35x3.15mm Pryda nail) No. 6 x 30mm timber screws (1 per hanger in hole on bottom to reduce squeaking)
ALTERNATE FASTENERS	For Face Mounted I-Joists only Pryda TCS12-35. Red Head 12G x 35mm screws may be used
HEIGHTS	235 - 350mm
WIDTHS	45 - 180mm

Simple means of connecting an I-Joist member at 90° to either a timber or metal beam.

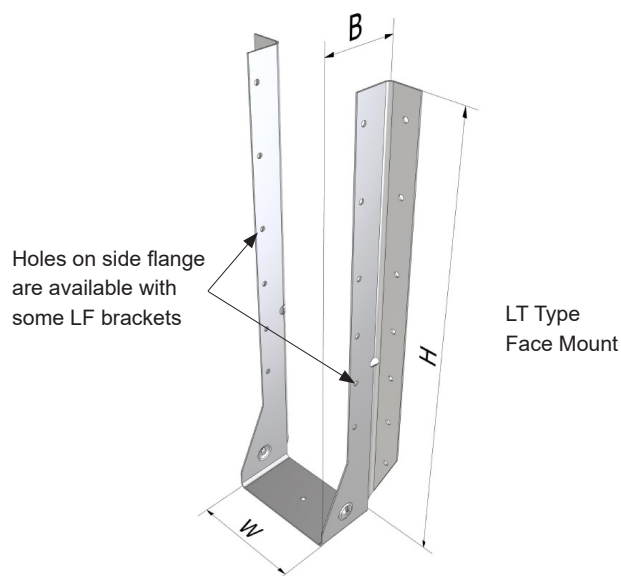


### AS1684 & AS1720 COMPLIANT

- Minimum Z275 Galvanised Steel
- Design values tested in accordance to the relevant standard



## FACE MOUNT I-JOIST



FACE MOUNT HANGER RANGE & DIMENSIONS				
PRODUCT CODE	H (MM)	W (MM)	B (MM)	FACE NAIL HOLES
LF300/45	296	46	50	12
LF300/53	296	53	50	12
LF290/65	290	65	50	12
LF290/70	288	70	50	12
LF235/90	235	90	50	10
LF290/90	290	90	50	12
LF350/90	350	90	50	14
LF235/180	235	180	50	10

## DESIGN CAPACITIES

Tabulated below are design capacities for Pryda I-joist Hangers based on the specified number of nails shown. "Face nails" are driven into the face of the supporting beam, "Top nails" into the top of the supporting beams and "Joist nails" into the supported member.

PRODUCT CODE	MATERIAL	QTY	HEIGHT	WIDTH	FACE NAILS REQ. (TCS12-35 SCREWS REQ.)	TOP NAILS REQ. (TCS12-35 SCREWS REQ.)	1.2G + 1.5QF (DEAD & FLOOR LIVE) DESIGN CAPACITY, $\Phi$ NJ (KN) FOR SUPPORTING BEAM WITH JOINT GROUP		
							JD5	JD4	JD3
LF235/180	G300 Z275 Galvanised Steel	10	235	180	10 (6)	N/A	6.4*	7.8*	10.9*
LF235/90		25	235	90					
LF290/65		25	290	65	12 (8)		7.7*	9.3*	13.1*
LF290/70			288	70					
LF290/90			290	90					
LF300/45			296	46					
LF300/53			296	53					
LF350/90			350	90					

\* With a minimum of eight face nails, these hangers can carry the design residential floor loads (1.5 kPa live) for joists up to 5.9 m span at 600 mm spacing or 7.9 m span at 450 mm spacing, provided that the timber supporting beams has a joint group of JD4 or better.

### NOTES:

- For joints on primary beams in structures other than houses, see General Notes for information.
- Use only Pryda 40x3.75mm or 35x3.75 mm galvanised Pryda Timber Connector Nails, for all LF and LT brackets. Pryda TCS12-35 screws (No.12x35 mm Type 17 hex head) may be used as an alternative for LF brackets only.
- Where these hangers are fixed to a 35 mm thick supporting beam, use 35 x 3.75 mm nails, and multiply design capacities by 0.88.
- The minimum no. of Pryda TCS12-35 screws required as an alternative fixing is given in brackets. TCS12-35 may be used as an alternative for LF brackets only.

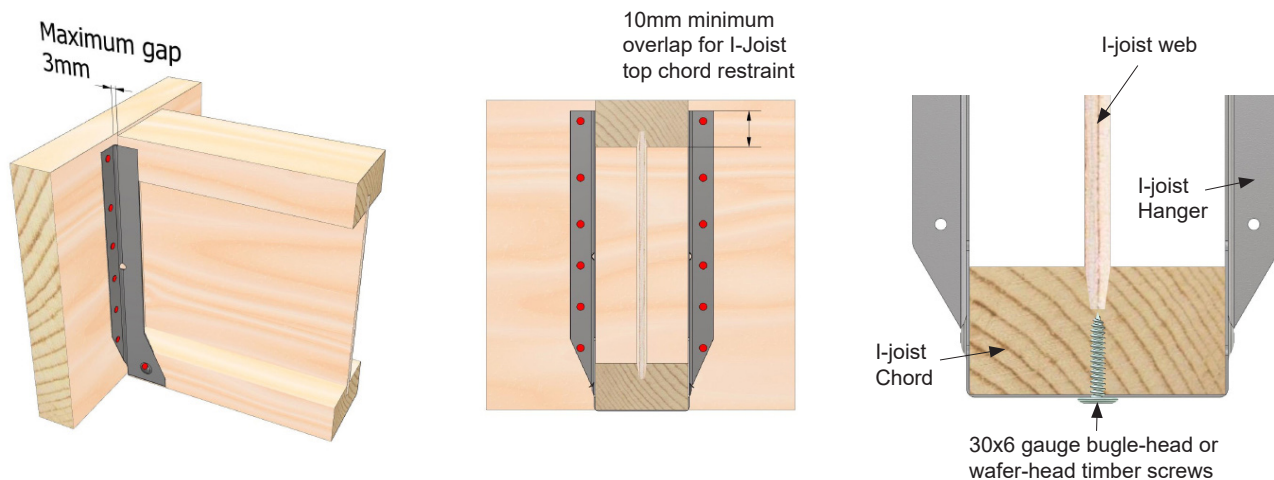
### IMPORTANT:

READ THIS DATASHEET IN CONJUNCTION WITH PRYDA HANGERS & TRUSS BOOTS DESIGN GUIDE AND REFER TO ESSENTIAL NOTES AND GENERAL NOTES.

## INSTALLATION

To achieve the specified design loads, Pryda I-Joist Hangers must be correctly installed as specified in the following sections: Refer to I-joist manufacturers' instruction manuals for span table selection and other details for on-site installation of their respective systems.

### INSTALLATION OF FACE MOUNT HANGERS



**Note:** Use the recommended screw to seat the I-Joist into the hanger properly to help reduce squeaks.



**LOOKING FOR MORE DETAILS OR OTHER HANGERS & TRUSS BOOTS IN OUR RANGE?**

SEE OUR HANGERS & TRUSS BOOTS DESIGN GUIDE AVAILABLE AT [PRYDA.COM.AU](https://www.pryda.com.au)

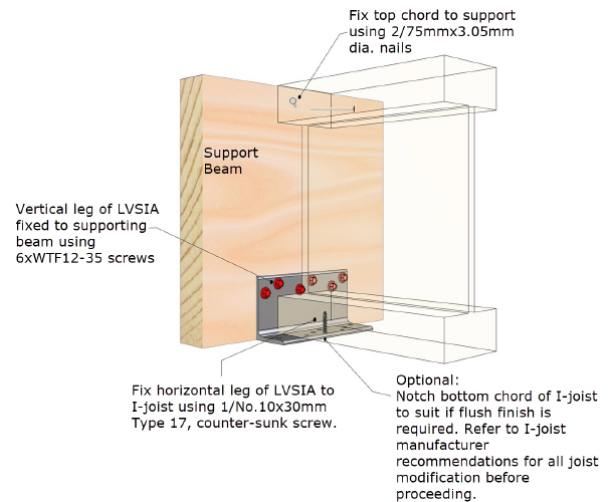
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### INSTALLATION OF VARIABLE SKEW ANGLES

LVSIA variable skew angles are installed as shown in the diagram:

1. Notch the I-joist at ends (if necessary) to achieve flush fitting the LVSIA.
2. Locate the angle with the 75 mm leg vertical and its mid-length at the middle of the required end location of the I-joist. Fix the angle to the supporting beam, waling plate or ledger with 6/ Pryda TCS12-35 screws (No. 12x35 mm Type 17 hex head). Design capacities and other product information are given in page 15.
3. Locate the I-joist on the angle and fix it up through the bottom of angle with 1/ No. 10 x 30 mm countersunk or bugle head Type 17 screw.
4. Nail the I-joist top chord to the support with 2/75x3.05 mm nails



## PRYDA I-JOIST NAILS

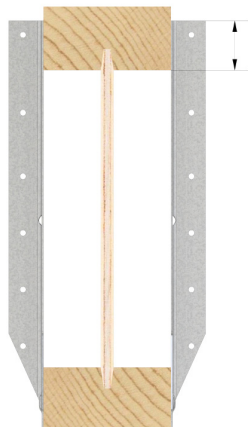
PRODUCT CODE	MATERIAL	TYPE	SIZE	PACK CONFIGURATION	QUANTITY
OSNIB/S	Galvanised Steel	Flat head	40 x 3.75mm	10 packs of 500gms	5kg

## PRYDA 12-35 SCREWS

PRODUCT CODE	MATERIAL	TYPE	SIZE	PACK CONFIGURATION	QUANTITY
TCS12-35/1k	Galvanised Steel	Hex Head & Zip Drilling Tip	12 Gauge x 35mm	1 Carton	1000
TCS12-65/1K		Hex Head & Zip Drilling Tip	12 Gauge x 35mm	1 Carton	1000

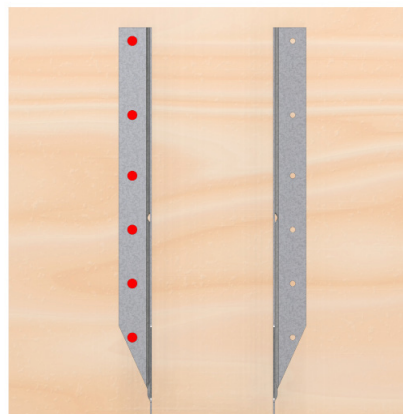
## INSTALLATION - FACE MOUNT

### STEP 1



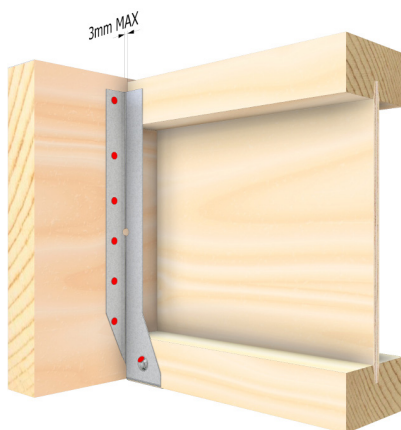
- Before installing, ensure I-Joist hanger is deep enough to cover at least 10mm of the top flange of the I-Joist

### STEP 2



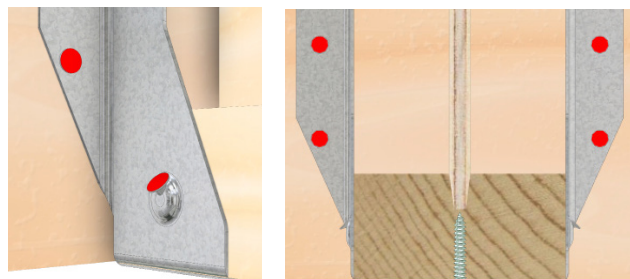
- Line up I-Joist Hanger on the supporting beam and fasten only one side initially using the number of nails or screws specified in the tables above
- If both sides are fastened before the supported beam is slotted in, the final connection could be:
  - Too loose, leading to squeaking and reduced design values
  - Too tight, meaning the beam will not fit.

### STEP 3



- Place the I-Joist into the bracket ensuring it is right up against supporting beam
- Any gap greater than 3mm will reduce capacity
- Fix off the remaining side ensuring the hanger is snug up against the I-Joist

### STEP 4



- To prevent the I-Joist squeaking in the hanger:
  - Skew nail into the dimples of each side near the bottom of the hanger
- Screw the included 30mm x 6 Gauge screws into the hole on the bottom as illustrated above
- Note: Use the recommended screw to seat the I-Joist into the hanger properly to help minimise squeaks. Alternatively, if nails are used from sides (holes available with some LT brackets), ensure they are adopted to avoid squeaks from nails coming into contact with the hanger's seat. Packers will be required as noted in Step 3 if the hanger is shorter than the supporting beam.

## I-JOIST HANGER CROSS REFERENCE GUIDE

The recommended size of Pryda I-Joist Hangers for support of proprietary I-joists in house floors is as follows:

I-JOIST CODE	I-JOIST SIZE (MM)	FACE MOUNT HANGER CODE	TOP MOUNT HANGER CODE	VARIABLE SLOPE & SKEW RAFTER HANGER CODE	VARIABLE SKEW HANGER LEFT CODE	VARIABLE SKEW HANGER RIGHT CODE	DOUBLE I-JOIST HANGER CODE FACE MOUNT	DOUBLE I-JOIST HANGER CODE TOP MOUNT			
<b>CARTER HOLT HARVEY HYJOIST</b>											
HJ200-45	200x45	N/A	N/A	N/A	LVSIA	LVSIA	JHH100*	N/A			
HJ240-45	240x45	N/A			LVSIA	LVSIA	JHH100*				
HJ300-45	300x45	N/A			LVSIA	LVSIA	N/A				
HJ240-63	240x63	N/A			LVSIA	LVSIA	N/A				
HJ300-63	300x63	LF290/65			LVSIA	LVSIA	N/A				
HJ360-63	360x63	N/A			LVSIA	LVSIA	N/A				
HJ240-90	240x90	LF235/90			N/A	N/A	LF235/180				
HJ300-90	300x90	LF290/90			N/A	N/A	LF235/180*				
HJ360-90	360x90	LF350/90			N/A	N/A	LF235/180*				
HJ400-90	400x90	LF350/90			N/A	N/A	LF235/180*				
<b>TILLINGS SMARTFRAME JOIST</b>											
SJ24040	240x40	N/A	N/A	N/A	LVSIA	LVSIA	N/A	N/A			
SJ30040	300x40				LVSIA	LVSIA					
SJ20044	200x44				LVSIA	LVSIA					
SJ24051	240x51				LVSIA	LVSIA					
SJ30051	300x50				LT300/52	LVSIA			LVSIA		
SJ36058	360x58		N/A		N/A	LF235/120*					
SJ24070	240x70		LVSIA		LVSIA	N/A	LT300/140				
SJ30070	300x70		LF290/70		LVSIA	LVSIA					
SJ24090	240x90		LF235/90		N/A	N/A	N/A		LF235/180	N/A	
SJ30090	300x90		LF290/90						LF235/180*		
SJ36090	360x90	LF350/90	LF235/180*								
SJ40090	400x90	LF350/90*	LF235/180*								
<b>WESBEAM E-JOIST</b>											
EJ20045	200x45	N/A	N/A	N/A	LVSIA	LVSIA	JHH100*	NA			
EJ24045	240x45				LVSIA	LVSIA	JHH100*				
EJ24545	245x45				LVSIA	LVSIA	JHH100*				
EJ24051	240x51				LVSIA	LVSIA	N/A				
EJ24090	240x90				LF235/90	N/A	N/A		LF235/180		
EJ30045	300x45				LF300/45	LVSIA	LVSIA		N/A		
EJ30051	300x51				N/A	LT300/52	LVSIA			LVSIA	
EJ30090	300x90				LF290/90	N/A	N/A				
EJ24563	245x63				N/A	N/A	N/A		LVSIA	LVSIA	N/A
EJ36063	360x63								LVSIA	LVSIA	
EJ36090	360x90	LF350/90	N/A	N/A				LF235/180*			
EJ40090	400x90	LF350/90 *	N/A	N/A				LF235/180*			
<b>LP I JOIST</b>											
LPI 302x70	302x70	LF290/70	N/A	N/A	LVSIA	LVSIA	N/A	N/A			

### NOTES:

1. For hangers marked \*, web stiffeners must be installed in accordance with the I-joist manufacturers' specification.
2. JHH100 are Heavy Duty Joist Hangers.