

# FRAMING BRACKET

## FEATURES AND BENEFITS

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

**FAST:** Can be fastened with Pryda TCS12-35mm screws.

**STRONG:** 1.0mm thick galvanised steel engineered to resist gravity loads and wind uplift loads as well as lateral rotation.

## SPECIFICATIONS

STEEL	G300
THICKNESS	1.0mm
CORROSION RESISTANCE	Z275 (all)
FASTENERS REQUIRED	Pryda 35x3.15mm Timber Connector Nails OR Pryda Painted hex head 12Gx35mm or 65mm Screws Ensure the corrosion resistance of the fastener matches the product i.e. galvanised nails for a galvanised bracket
HEIGHTS	60 - 220mm
WIDTHS	35 - 94mm

Simple means of connecting two members at 90° that provides resistance to gravity and uplift loads.

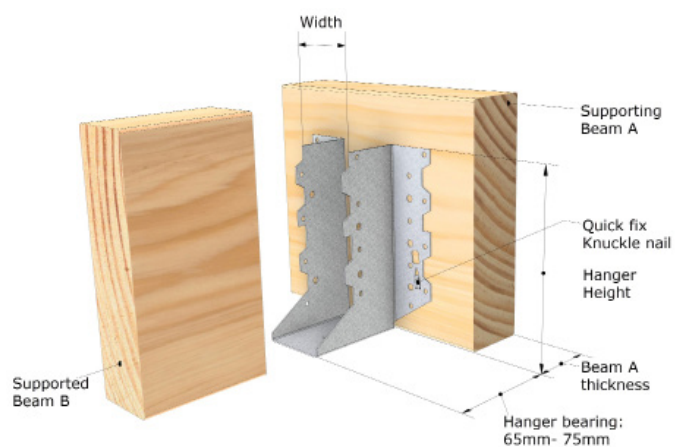
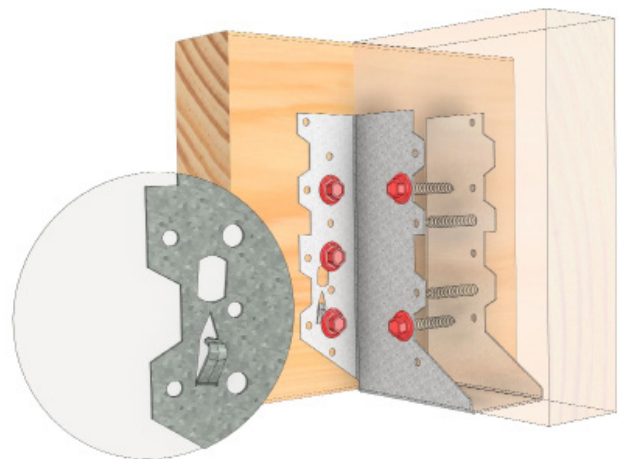
## DURABILITY

Z275 to be used in weather protected internal applications.



### AS1684 & AS1720 COMPLIANT

- Minimum Z275 galvanised steel
- G300 min. Steel grade
- Design values tested in accordance with the relevant standard



## TYPICAL APPLICATIONS

Pryda Framing Brackets are suitable for many joints including:

- joist to beam
- jack to TG truss
- ceiling joist to hanger
- floor truss to beam
- pergola rafters to fascia
- beams to masonry

## FRAMING BRACKETS

PRODUCT CODE	MATERIAL	WIDTH	HEIGHT	SUITABLE APPLICATION	BOX QUANTITY
MPFBK3590	G300 Z275 Galvanised Steel	36	82	Solid Beams	45
MPFBK35120		36	116		45
MPFBK35140		36	140		40
FBK35180		36	182		30
MPFBK3860*		39	60		45
MPFBK3890		39	80		45
MPFBK38120		39	115		45
MPFBK38140		39	138		40
MPFBK38180		39	181		30
MPFBK4590		46	77		45
MPFBK45120		46	110		45
MPFBK45140		46	134		40
MPFBK45180		46	176		30
MPFBK45220		46	216		15
MPFBK5060*		50	54		45
MPFBK5090		50	75		45
MPFBK50120		50	109		45
MPFBK50140		50	133		40
MPFBK50180		50	175		30
MPFBK50220		50	215		15
FB62120*		62	120		25
FB62170*		62	170		25
FB62220		62	200		25
FB65170		65	167		25
FB70200		71	194		25
FB84200*		85	197		25
FB90200		91	194		25
FB72163		72	163		Floor Trusses
FB94152		94	152	Floor Trusses	25

Note: The product marked with \* is no longer available.

## DESIGN CAPACITIES

PRODUCT CODE	FIXING TO SUPPORTED BEAM (A)	DEAD + FLOOR LIVE LOAD 1.2G+1.5QF			FIXING TO SUPPORTED BEAM (B)	WIND UPLIFT K1 = 1.14			MAX.
		JOINT GROUP				JOINT GROUP			
		JD5	JD4	JD3		JD5	JD4	JD3	
MPFBK3860*	6 nails	2.9	3.4	4.8	3 nails	2.4	2.8	3.9	4.5
MPFBK5060*	2 screws	2.1	3	4.3	2 screws	3.5	5	5	5
MPFBK3590	8 nails	3.8	4.6	6.4	4 nails	3.2	3.7	5.3	6
MPFBK3890	4 screws	4.3	6.1	8.5	2 screws	3.5	5	5	5
MPFBK4590									
MPFBK5090									
MPFBK35120	12 nails	5.3	6.4	8.9	6 nails	4.7	5.7	7.9	9
MPFBK38120	6 screws	6.4	9.1	12.8	4 screws	7.1	10	10	10
MPFBK45120									
MPFBK50120									
FB62120*									
MPFBK35140	16 nails	7	8.4	11.7	8 nails	6.1	7.3		
MPFBK38140	6 screws	6.4	9.1	12.8	4 screws	7.1	10		
FBK35180	20 nails	8.6	10.3	14.4	10 nails	7.4	8.9	12.4	15
MPFBK38180	8 screws	8.6	12.1	15	6 Screws	10.6	15	15	
MPFBK45180									
MPFBK50180									
FB62170*	18 nails	7.8	9.3	13.1	6 nails	4.7	5.7	7.9	9
FB65170	6 screws	6.4	9.1	12.8	11 nails	8.1	9.8	13.6	15
					6 screws	10.6	15	15	
FB62220	24 nails	10	11.9		12 nails	8.6	10.7	14.5	
FB70200	10 screws	10.1	14.2		7 screws	12.3	15	15	
FB84200*	22 nails	9.2	11		12 nails	8.6	10.7	14.5	
	8 screws	8.6	12.1		8 screws	14.2	15		
FB90200	26 nails	10.8	12.9		13 nails	9.6	11.6	15	
	10 screws	10.1	14.2		8 screws	14.2	15		
<b>FLOOR TRUSS FRAMING BRACKETS</b>									
FB72163	18 nails	7.8	9.4	13	3 nails	2.4	2.8	3.9	4.5
	6 screws	6.4	9.1	12.8	10 nails	7.4	8.9	12.4	15
					6 screws	10.6	15	15	
FB94152	18 nails	7.8	9.3	13.1	3 nails	2.4	2.8	3.9	4.5
	6 screws	6.4	9.1	12.8	10 nails	7.4	8.9	12.4	15
					6 screws	10.6	15	15	

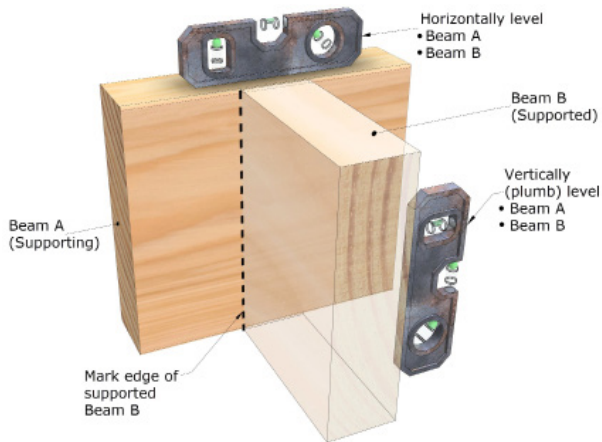
Update: The product marked with \* is no longer available.

### NOTES:

- The above tabulated capacities are for a minimum supporting beam thickness of 35 mm.
- The values in the table apply directly for Category 1 joints. For Category 2 multiply these values by 0.94 and Category 3 joints multiply by 0.88.
- For FB65170, FB72163 and 95142 brackets, wind uplift values have been reduced due to a shorter end distance on the supported beam compared to the other brackets.
- For FB72163 to FB94152, the wind uplift 3 nails fixing option allows for fixing to the chords only of I-beams or trusses.
- Unless the top of the supported beam is provided with additional lateral restraints, the bracket must cover at least 60% of the depth of the supported beam.
- Multiple Laminated Supporting Beams: Fasteners with longer lengths are required when Joist Hangers are fixed into a multiple laminated supporting beam. For double laminates, use 65 long nails or screws. Alternatively, for double or triple laminated supporting beams, additional fixings may be provided at hanger locations to laminate plies. Seek advice from the Engineer.
- Gap between Supported and Supporting Beams: A maximum gap of 3mm is permitted without impeding on the design capacities. A larger gap would result in a rotation of the supported beam under downward loads and also could compromise on end distance requirements of nails resulting in reduced uplift capacities. Seek advice from a Pryda Engineer regarding treatment of large gaps.
- The framing bracket shall not hang more than 10mm below the underside of Beam A, if the above table values are to be maintained. Seek advice from a Pryda engineer.

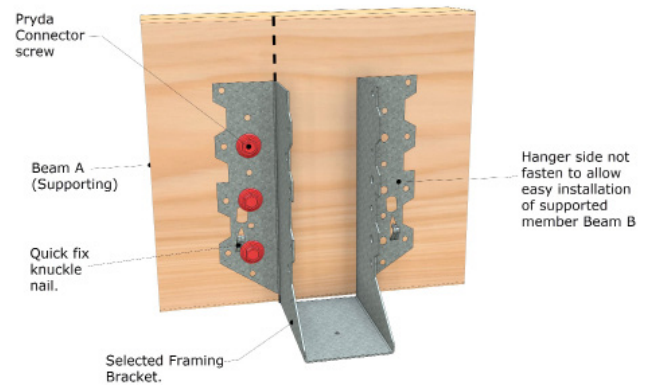
## INSTALLATION

### STEP 1



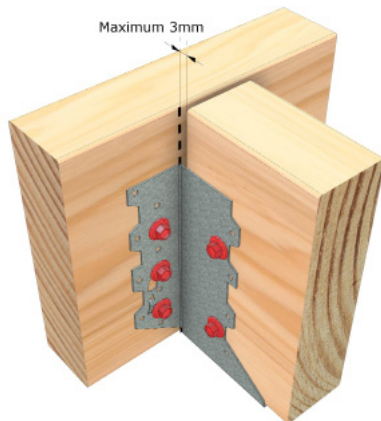
- Ensure both Beam A and B are level and plumb.
- Measure and mark location of connection on supporting beam.

### STEP 2



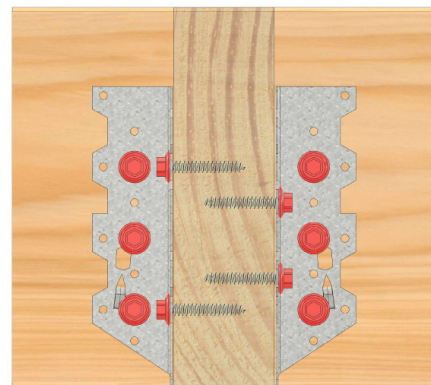
- Line up Framing racket on the supporting beam and fasten only one side initially. Quick fix hanger in to position to supporting Beam A with knuckle nail:
  - For Hand nails, fill each small hole
  - For Screws, fill each larger screw hole (shown in diagram above)
  - For machine nails use 20% more nails and do not fire through holes, see tips below.

### STEP 3



- Place the supported beam into the Framing Bracket ensuring it is right up against supporting beam
- Any gap greater then 3mm will reduce capacity

### STEP 4



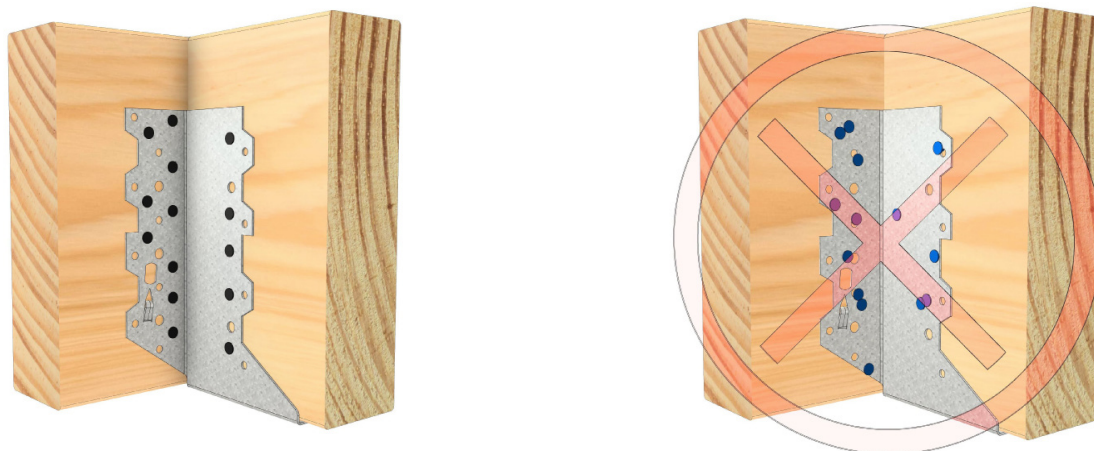
- Cup the Framing Bracket snug with the supported beam and fasten the remaining supporting beam side as well as both sides of the supported beam

### CAUTION

- If both sides are fastened before the supported beam is slotted in, the final connection to the supported beam could be:
  - Too loose, leading to squeaking and reduced design values
  - Too tight, meaning the beam will not fit

## MACHINE NAILING

Where appropriate, Paslode Machine Driven Nails listed below may be used instead of the specified 35 x 3.15 mm Pryda.



Timber Connector Nails to fix Pryda connectors provided that:

- 20% More machine nails are used
- Machine driven nails are driven at nail spacings and edge distances similar to the hole pattern, ensuring that these nails are:
  - Driven into the blank metal between the pre-punched holes
  - not located closer than 5mm from the edge of a hole
  - not tightly clustered together
  - not within 15 mm from the edge of the supported beam or 10mm from the edge of the supporting beam
- Screw hardened, electro galvanised Paslode nails that are appropriate include:
  - Duo-Fast C SHEG 32 x 2.3 ( D40810)
  - Paslode 32 x 2.5 mm (B25110)
  - Duo-Fast 32 x 2.5 mm (D41060)
  - Pas Coil 32 x 2.5 SHEG 2 Pack (B25250)
  - Impulse 32 x 2.5 SHEG (B40020)



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