

Heavy Duty Joist Hangers

GALVANISED

Application

The Bremick® Heavy Duty Joist Hangers are designed to support heavily loaded beams.

Advantages

The Bremick® Heavy Duty Joist Hangers provides numerous benefits including:

- **Cost effective.** Simple method of connecting two heavily loaded timber members while achieving the required design loads, without the need for costly onsite skilled labour constructing special jointing connections.
- **Efficient.** Quickly and easily connects the two timber members into a structurally sound application using either Bremick Timber Connector Nails or Bremick Type 17 12-gauge screws.
- **Designed for common applications.** 100mm width and 140mm bracket length accommodates typical applications including double heavy beams, i-joists, roof trusses or heavily loaded floor trusses.
- **Tongue extending out from base of hanger.** For fixing to the supporting beam to resist twisting and rotation.

Specifications

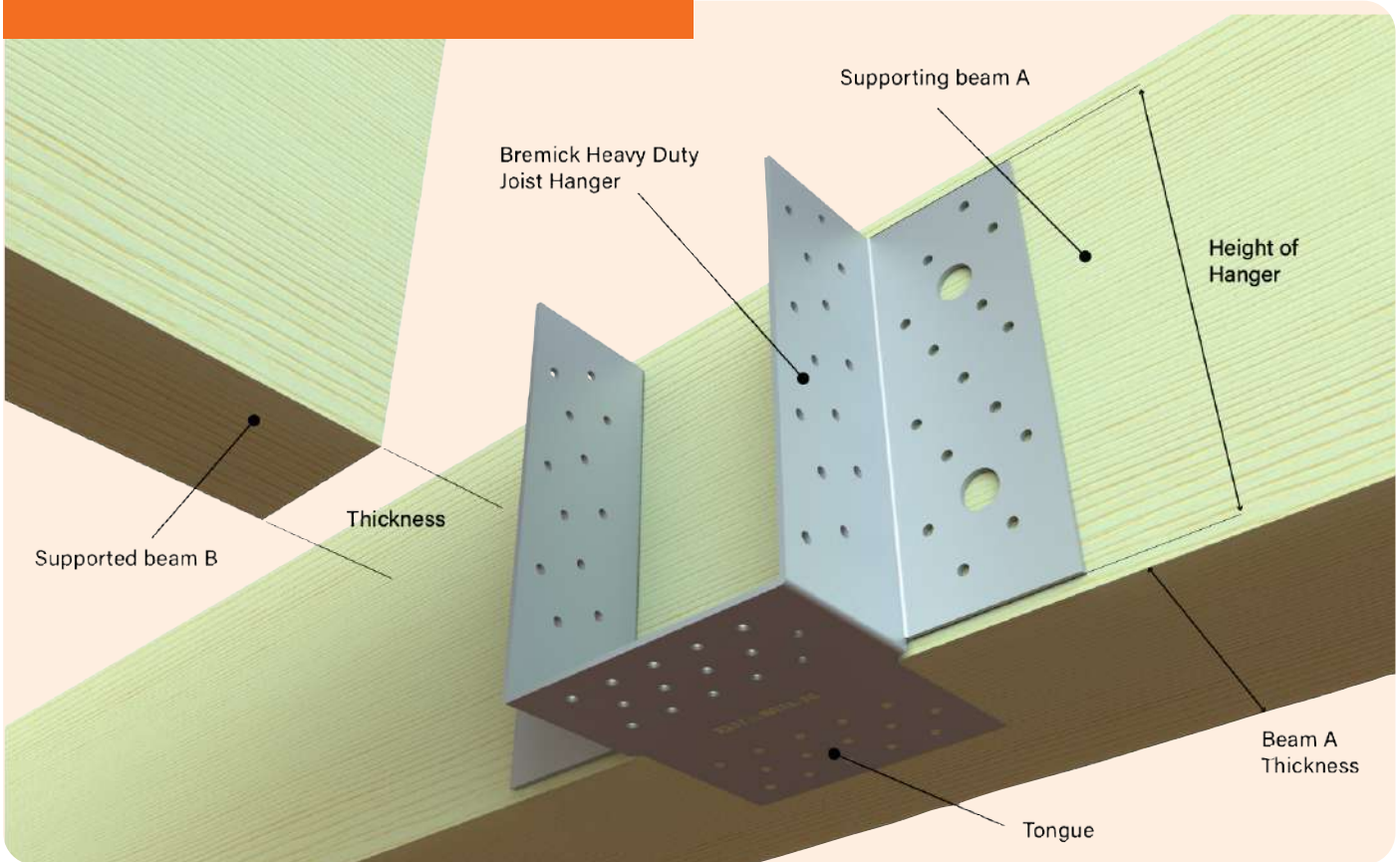
Steel Grade	G300
Coating	Z275 – Galvanised
Thickness	2.0mm
Width	100mm
Length	140mm
Fasteners	Bremick® 35 x 3.15mm Timber Connector Nails Bremick® Type 17, 12g x 35mm/65mm Screws

Bremick® Ranging

Product Code	Dimensions	Coating	Pack Qty
TJDG140100124	140mm x 100mm x 2.0mm	Z275 – Galvanised	10



Installation Instructions



1

Fix the tongue to the underside of the supporting beam (Beam A) using 4 x Bremick 3.15 x 35mm timber connector nails or 4 x 12-gauge Type 17 screws. For double laminated beams, at least 3 nails or screws should be fixed into each laminate.

2

Using Bremick Timber Connector Nails or Type 17 12-gauge screws (use the number as per the table below) locate into the pre-punched holes within the joist hanger's two flanges with the fasteners and fix off into the supporting beam (Beam A).
When fastening into double laminated beams, use fasteners of at least 65mm.

3

Locate supported beam (Beam B) into the heavy-duty joist hanger, so that it is sitting firmly against the supporting beam (Beam A). Note the beam must be at least 140mm depth. The bracket must cover at least 60% of the beam's depth.

4

Using Bremick Timber Connector Nails or Type 17 12-gauge screws (use the number as per the table below) locate into the pre-punched holes with the fasteners and fix off into the supported timber member (Beam B).

Fixing Table

Joist Hanger Length (mm)	Fixing To			
	Supporting Member		Supported Member	
	35 x 3.15mm Timber Connector Nail	Type 17, 12 Gauge Screw	35 x 3.15mm Timber Connector Nail	Type 17, 12 Gauge Screw
140mm	30	12	18	8

Notes

Do not nail or screw within 30mm of the ends of the timber beams or within 6mm of the beam edges.

Technical Data

HEAVY DUTY JOIST HANGER

LIMIT STATE SHEAR CAPACITY (1.35G IE DOWNWARDS DEAD LOADS PLUS PERMANENT LIVE LOADS)

TABLE 1 CAPACITY: 15-3.15mm DIAMETER x 35mm NAILS USED IN EACH WING AND 13-3.15mm DIAMETER NAILS TO EACH SIDE OF THE SUPPORTED MEMBER

	CODE	PRODUCT	HEIGHT (mm)	WIDTH (mm)	THICKNESS (mm)	
	TJJDG140100124	JOIST HANGER	141	95	2	
	Seasoned Timber Capacity (kN)					
JOINT GROUP	JD6	JD5	JD4	JD3	JD2	JD1
	5.2	7.1	7.9	11.9	14.9	18.1
	Unseasoned Timber Capacity (kN)					
JOINT GROUP	J6	J5	J4	J3	J2	J1
	3.0	4.1	5.3	7.5	10.2	13.4

LIMIT STATE SHEAR CAPACITY (1.2G+1.5QF IE DOWNWARDS DEAD PLUS FLOOR LIVE LOADS)

TABLE 2 CAPACITY: 15-3.15mm DIAMETER x 35mm NAILS USED IN EACH WING AND 13-3.15mm DIAMETER NAILS TO EACH SIDE OF THE SUPPORTED MEMBER

	CODE	PRODUCT	HEIGHT (mm)	WIDTH (mm)	THICKNESS (mm)	
	TJJDG140100124	JOIST HANGER	141	95	2	
	Seasoned Timber Capacity (kN)					
JOINT GROUP	JD6	JD5	JD4	JD3	JD2	JD1
	6.3	8.6	10.3	14.4	18.3	24.3
	Unseasoned Timber Capacity (kN)					
JOINT GROUP	J6	J5	J4	J3	J2	J1
	3.7	5.0	6.5	9.1	12.8	16.3

LIMIT STATE SHEAR CAPACITY (1.2G+1.5QR IE DOWNWARDS DEAD PLUS ROOF LIVE LOADS)

TABLE 3 CAPACITY: 15-3.15mm DIAMETER x 35mm NAILS USED IN EACH WING AND 13-3.15mm DIAMETER NAILS TO EACH SIDE OF THE SUPPORTED MEMBER

	CODE	PRODUCT	HEIGHT (mm)	WIDTH (mm)	THICKNESS (mm)	
	TJJDG140100124	JOIST HANGER	141	95	2	
	Seasoned Timber Capacity (kN)					
JOINT GROUP	JD6	JD5	JD4	JD3	JD2	JD1
	7.1	9.6	11.5	16.0	20.4	27.1
	Unseasoned Timber Capacity (kN)					
JOINT GROUP	J6	J5	J4	J3	J2	J1
	4.1	5.6	7.2	10.2	14.3	18.2

REMARKS

- Use only Bremick nails with shank a close fit in all of the nail holes.
- The supported member must sit on the base of the joist hanger and the maximum permissible gap between supported member and face of supporting member 2mm
- Values for Category 1 (secondary members.) Values x 0.94 for Category 2 (primary members) and Category 3 Values x 0.88 for post disaster structures primary members
- When the two connected timber are of different joint groups use the lowest joint group when using these tables