

Split Joist Hangers

GALVANISED

Application

The Bremick® Split Joist Hangers are typically used to provide a heavy-duty connection for non-standard solid timber beam widths to supporting beams. Common applications include beam to beam, waling plate to stud and corner beam connections, where clearance is required.

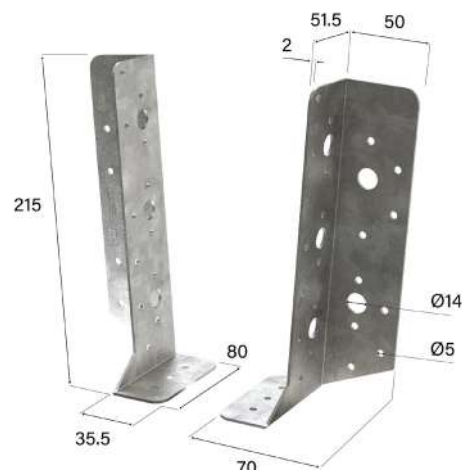
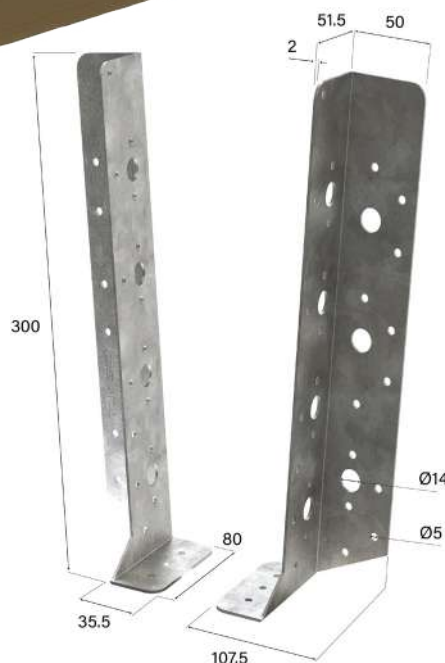
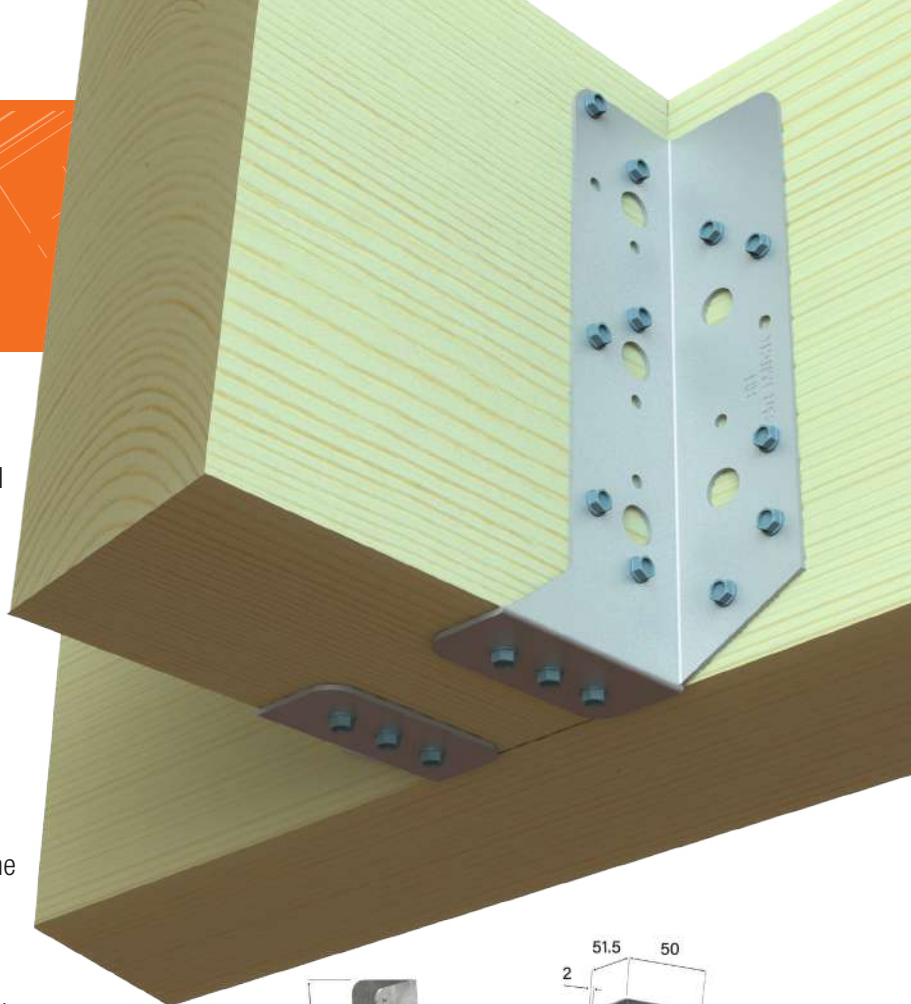
Advantages

The Bremick® 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 Bremick Type 17 12-gauge screws.
- **Flexibility.** 200mm width and 300mm bracket length accommodates typical heavy beams of varying widths.
- **Easy.** No requirement to select a hanger to suit the beam width.

Specifications

Steel Grade	G300
Coating	Z275 – Galvanised
Thickness	2.0mm
Width A	70mm, 107mm
Width B	80mm
Length	215mm, 300mm
Fasteners	Bremick® Type 17, 12g x 35mm/65mm Screws



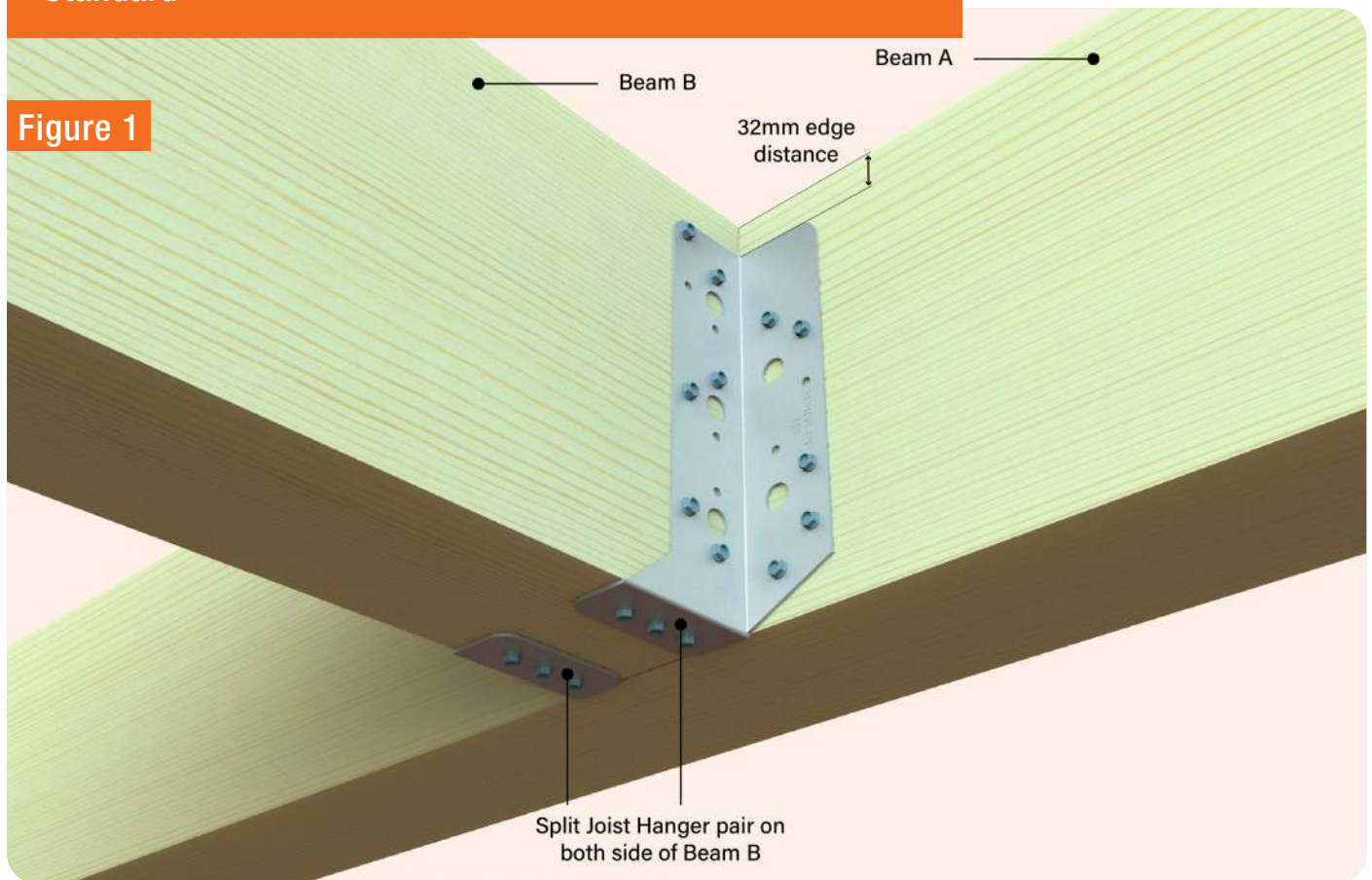
Bremick® Ranging

Product Code	Dimensions	Coating	Pack Qty
TJPG200000204	215mm x 70mm x 80mm x 2.0mm	Z275 – Galvanised	10 pairs
TJPG300000204	300mm x 107mm x 80mm x 2.0mm	Z275 – Galvanised	10 pairs

Installation Instructions

Standard

Figure 1



1

Locate the first split joist hanger into position on the supporting beam (Beam A). As per **figure 1**. Using Bremick Type 17 12-gauge screws (use the number as per the table below) locate into the pre-punched holes within the joist hanger's flange and fix off into the supporting beam (Beam A).

2

Measured the required distance between the two split joist hangers. Then locate the second split hanger into position on the supporting beam (Beam A). Using Bremick Type 17 12-gauge screws (use the number as per the table below) locate into the pre-punched holes within the joist hanger's flange and fix off into the supporting beam (Beam A).

3

When fastening into double laminated beams, use fasteners of at least 65mm.

4

- Locate supported beam (Beam B) into the split joist hanger, so that it is sitting firmly against the supporting beam (Beam A).
- Note the beam must be at least 200mm deep. The bracket must cover at least 60% of the beam's depth.

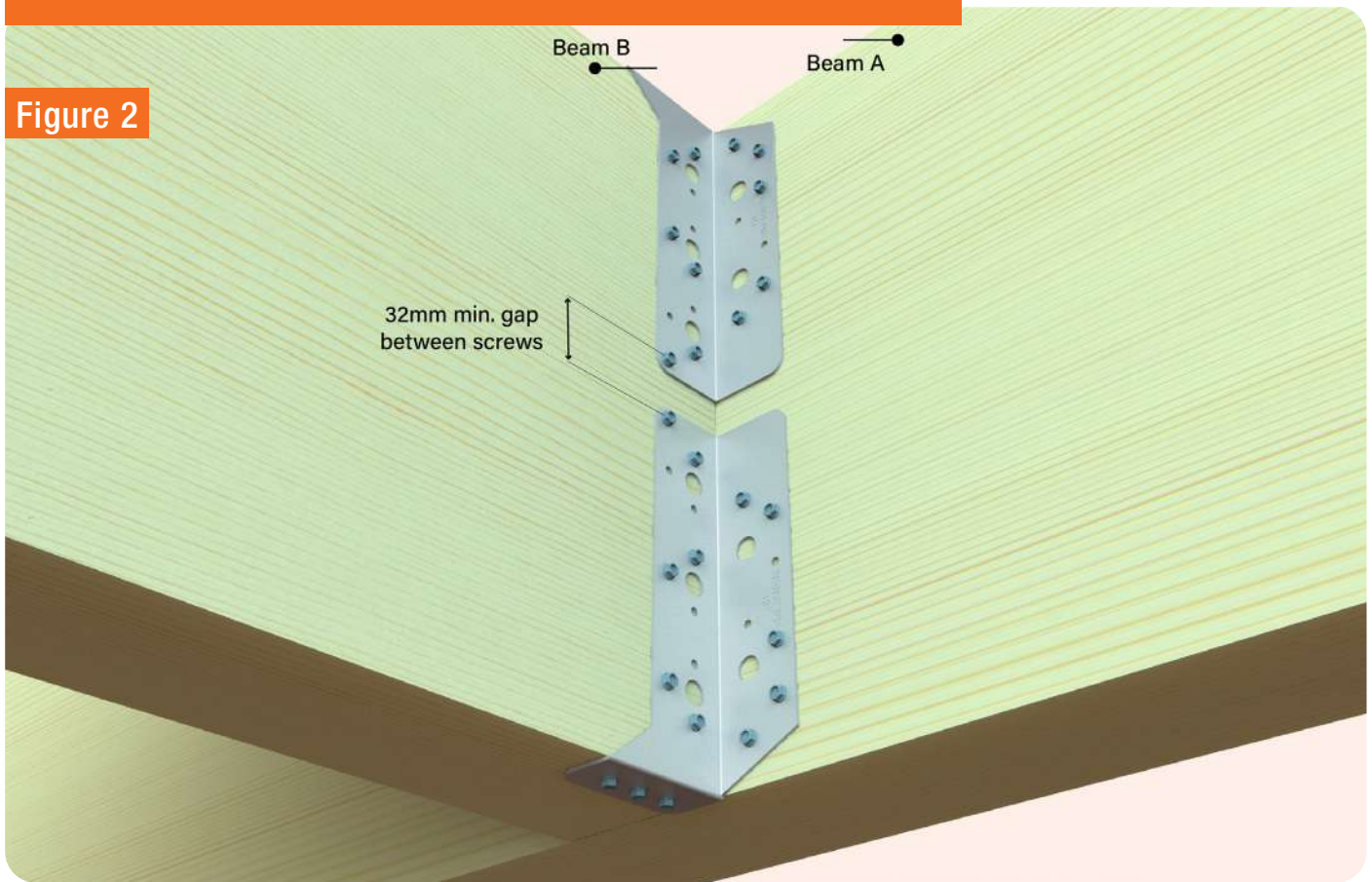
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Using Bremick Type 17 12-gauge screws (use the number as per the table below) locate into the pre-punched holes with the fasteners and fix off into the supported timber member (Beam B).

Installation Instructions

Stacked on one side

Figure 2



1

Locate the first split joist hanger into position on the supporting beam (Beam A). As per **figure 2**. Using Bremick Type 17 12-gauge screws (use the number as per the table below) locate into the pre-punched holes within the joist hanger's flange and fix off into the supporting beam (Beam A).

2

Measured the required distance between the two split joist hangers. Then locate the second split hanger into position on the supporting beam (Beam A). As per **figure 2**. Using Bremick Type 17 12-gauge screws (use the number as per the table below) locate into the pre-punched holes within the joist hanger's flange and fix off into the supporting beam (Beam A).

3

When fastening into double laminated beams, use fasteners of at least 65mm.

4

Locate supported beam (Beam B) into the split joist hanger, so that it is sitting firmly against the supporting beam (Beam A) and the tabs of the split joist hangers are sitting snug against the top and bottom of Beam B.

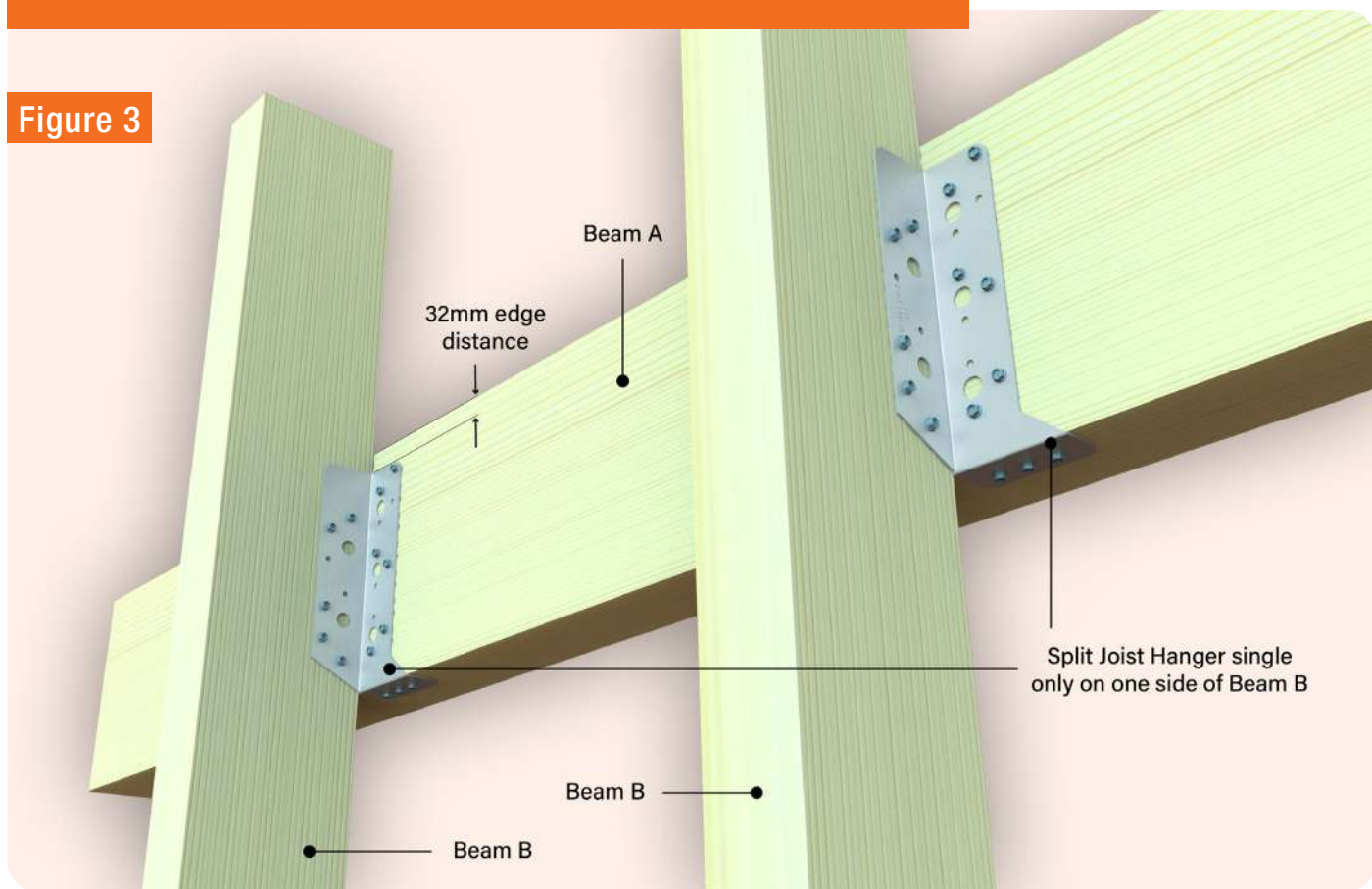
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Using Bremick Type 17 12-gauge screws (use the number as per the table below) locate into the pre-punched holes with the fasteners and fix off into the supported timber member (Beam B).

Installation Instructions

Waling Plate Connection

Figure 3



1

Locate the first split joist hanger into position on the waling plate (Beam A) and the second flange sits against the stud (Beam B). As per figure 3.

2

Using Bremick Type 17 12-gauge screws (use the number as per the table below) locate into the pre-punched holes within the joist hanger's flange and fix off into the waling plate.

3

Then, using Bremick Type 17 12-gauge screws (use the number as per the table below) locate into the pre-punched holes within the joist hanger's flange and fix off into the stud.

4

Repeat steps above for the second split joist hanger.

Fixing Table

Joist Hanger Length (mm)	Fixing To	
	Supporting Member (Beam A) Type 17, 12 Gauge Screw	Supported Member (Beam B) Type 17, 12 Gauge Screw
Standard		
200mm	10	8
300mm	16	12
Stacked		
200mm	12	10
300mm	18	14
Waling Plate		
200mm	8	6
300mm	12	10

Technical Data

SPLIT JOIST HANGER

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

TABLE 1 CAPACITY: FOR 10/12 gauge SCREWS x 50mm USED IN EACH WING AND 11/12 gauge SCREWS x 50mm TO EACH SIDE OF THE SUPPORTED MEMBER

	CODE	PRODUCT	HEIGHT (mm)	THICKNESS (mm)			
	TJPG200000204	JOIST HANGER	215	2			
	Seasoned Timber Capacity (kN)						
JOINT GROUP	JD6	JD5	JD4	JD3	JD2	JD1	
	3.2	4.4	6.3	8.8	11.2	14.9	
	Unseasoned Timber Capacity (kN)						
JOINT GROUP	J6	J5	J4	J3	J2	J1	
	2.1	3.2	4.4	6.3	8.8	11.2	

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

TABLE 2 CAPACITY: FOR 10/12 gauge SCREWS x 50mm USED IN EACH WING AND 11/12 gauge SCREWS x 50mm TO EACH SIDE OF THE SUPPORTED MEMBER

	CODE	PRODUCT	HEIGHT (mm)	THICKNESS (mm)			
	TJPG200000204	JOIST HANGER	215	2			
	Seasoned Timber Capacity (kN)						
JOINT GROUP	JD6	JD5	JD4	JD3	JD2	JD1	
	3.9	5.4	7.6	10.7	13.6	18.0	
	Unseasoned Timber Capacity (kN)						
JOINT GROUP	J6	J5	J4	J3	J2	J1	
	2.5	3.9	5.4	7.6	10.7	13.6	

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

TABLE 3 CAPACITY: FOR 10/12 gauge SCREWS x 50mm USED IN EACH WING AND 11/12 gauge SCREWS x 50mm TO EACH SIDE OF THE SUPPORTED MEMBER

	CODE	PRODUCT	HEIGHT (mm)	THICKNESS (mm)			
	TJPG200000204	JOIST HANGER	215	2			
	Seasoned Timber Capacity (kN)						
JOINT GROUP	JD6	JD5	JD4	JD3	JD2	JD1	
	4.4	6.0	8.5	11.9	15.1	20.1	
	Unseasoned Timber Capacity (kN)						
JOINT GROUP	J6	J5	J4	J3	J2	J1	
	2.8	4.4	6.0	8.5	11.9	15.1	

REMARKS

- Use only Bremick screws with shank a close fit in all of the screw holes.
- 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
- Values for 35mm screws multiply values by 0.84
- When the two connected timber are of different joint groups use the lowest joint group when using these tables

Technical Data

SPLIT JOIST HANGER

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

TABLE 4 CAPACITY: FOR 12/12 gauge SCREWS x 50mm USED IN EACH WING AND 15/12 gauge SCREWS x 50mm TO EACH SIDE OF THE SUPPORTED MEMBER

	CODE	PRODUCT	HEIGHT (mm)	THICKNESS (mm)		
	TJPG300000204	JOIST HANGER	300	2		
	Seasoned Timber Capacity (kN)					
JOINT GROUP	JD6	JD5	JD4	JD3	JD2	JD1
	6.1	8.3	11.7	16.5	20.9	27.8
	Unseasoned Timber Capacity (kN)					
JOINT GROUP	J6	J5	J4	J3	J2	J1
	3.9	6.1	8.3	11.7	16.5	20.9

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

TABLE 5 CAPACITY: FOR 12/12 gauge SCREWS x 50mm USED IN EACH WING AND 15/12 gauge SCREWS x 50mm TO EACH SIDE OF THE SUPPORTED MEMBER

	CODE	PRODUCT	HEIGHT (mm)	THICKNESS (mm)		
	TJPG300000204	JOIST HANGER	300	2		
	Seasoned Timber Capacity (kN)					
JOINT GROUP	JD6	JD5	JD4	JD3	JD2	JD1
	7.3	10.0	14.2	20.0	25.3	33.6
	Unseasoned Timber Capacity (kN)					
JOINT GROUP	J6	J5	J4	J3	J2	J1
	4.7	7.3	10.0	14.2	20.0	25.3

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

TABLE 6 CAPACITY: FOR 12/12 gauge SCREWS x 50mm USED IN EACH WING AND 15/12 gauge SCREWS x 50mm TO EACH SIDE OF THE SUPPORTED MEMBER

	CODE	PRODUCT	HEIGHT (mm)	THICKNESS (mm)		
	TJPG300000204	JOIST HANGER	300	2		
	Seasoned Timber Capacity (kN)					
JOINT GROUP	JD6	JD5	JD4	JD3	JD2	JD1
	8.2	11.2	15.8	22.3	28.3	37.5
	Unseasoned Timber Capacity (kN)					
JOINT GROUP	J6	J5	J4	J3	J2	J1
	5.3	8.2	11.2	15.8	22.3	28.3

REMARKS

- Use only Bremick screws with shank a close fit in all of the screw holes.
- 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
- Values for 35mm screws multiply values by 0.84
- When the two connected timber are of different joint groups use the lowest joint group when using these tables