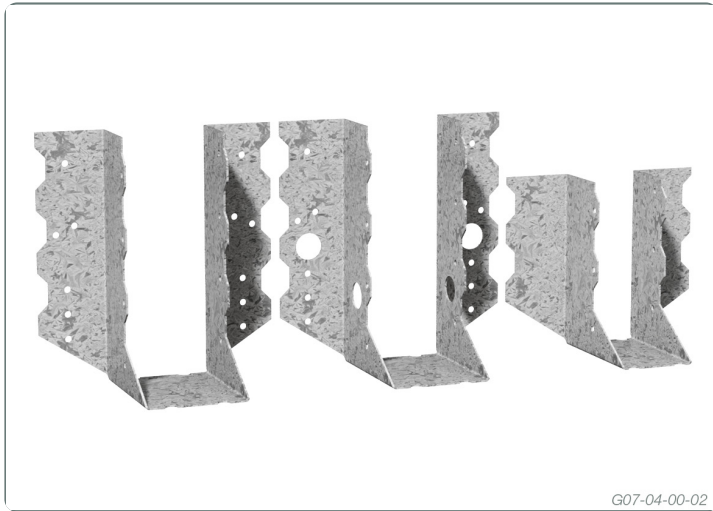


## Joist Hanger



**Pre-punched, formed galvanised steel connector available with or without bolt holes - very easy to install!**

**These pre-punched and formed galvanised steel timber connectors are ideal for:**

**Fastening joists to the face of beams.**

**Fastening standard trusses to girder trusses.**

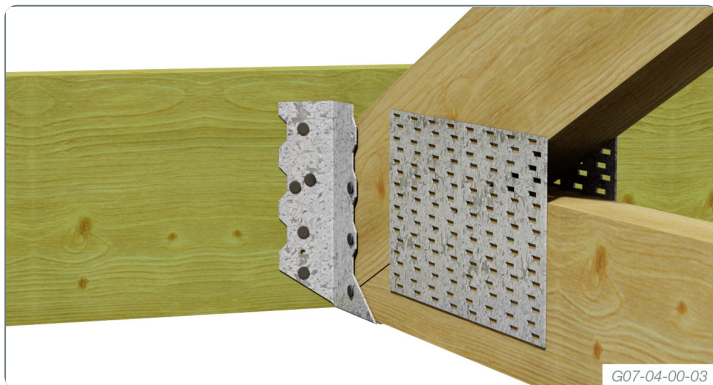
**Securing beam to beam joints, joists to joists and jacks to TG trusses.**

### APPLICATION

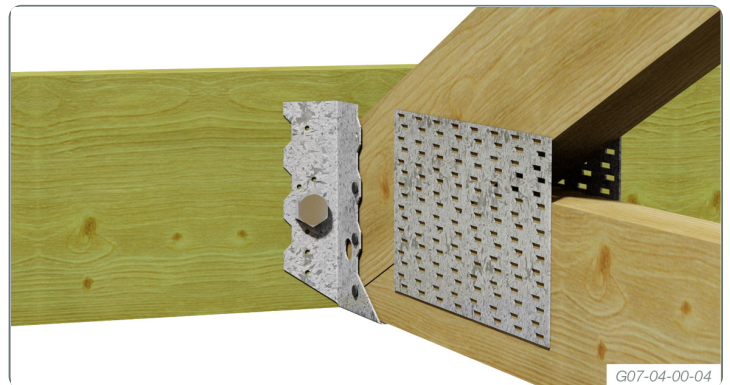
The Multinail Joist Hanger is available with or without bolt holes, allowing you flexibility in fastening the Joist Hanger to the truss or beam using nails and/or bolts.

Joist Hangers are easy to install. Simply use 5/30mm x 2.8Ø Multinail galvanised nails, through each wing to secure the Joist Hanger to the supporting member. Alternatively, use one M12 bolt, with washer, in each wing to secure to the supporting member.

To secure the joist or truss to the Joist Hanger, use 3/30mm x 2.8Ø Multinail galvanised nails through each wing.



Multinail Joist Hanger secured to single girder truss using Multinail galvanised nails



Multinail Joist Hanger secured to multiple girder truss using 2/M12 Multinail Hex Head bolts and Multinail galvanised nails to support member

### Nail fixing schedule

Number of 2.8Ø Nails - Fixing per wing

Nominal Joist Hanger Height (mm)	70	90	120	140	180
Supporting (Girder) Member Fixing	3	5	6	7	10
Carried Member Fixing	2	3	4	4	6

## LIMIT STATE DESIGN LOADS

The following table gives the recommended Limit State Design capacities for Multinail Joist Hangers. Design capacities are for use in limit state design procedures to AS1720.1-2010

NOTE: The capacities are derived from AS1720-2010 and are for uplift in houses where failure is unlikely to affect an area greater than 25m<sup>2</sup>. For primary elements in structures other than houses or elements in a house for which failure would be greater than 25m<sup>2</sup> these capacities must be multiplied by 0.94. For primary joints in essential services or post disaster buildings multiply by 0.88.

Maximum Limit State Design Capacities (kN) for Joist Hangers							
Fixing per wing	Load Combination	Joint Group					
		J2	J3	J4	JD3	JD4	JD5
3 Nails	Dead Load	2.7	1.9	1.4	2.7	1.9	1.6
	Dead Load + Floor Live Load	3.3	2.3	1.7	3.3	2.3	1.9
	Dead Load + Roof Live Load	3.7	2.6	1.9	3.7	2.6	2.1
5 Nails	Dead Load	4.5	3.2	2.3	4.5	3.2	2.6
	Dead Load + Floor Live Load	5.4	3.9	2.7	5.4	3.9	3.2
	Dead Load + Roof Live Load	6.1	4.4	3.1	6.1	4.4	3.6
6 Nails	Dead Load	5.4	3.9	2.7	5.4	3.9	3.2
	Dead Load + Floor Live Load	6.5	4.7	3.3	6.5	4.7	3.8
	Dead Load + Roof Live Load	7.3	5.2	3.7	7.3	5.2	4.3
7 Nails	Dead Load	6.3	4.5	3.2	6.3	4.5	3.7
	Dead Load + Floor Live Load	7.6	5.5	3.9	7.6	5.5	4.5
	Dead Load + Roof Live Load	8.5	6.1	4.3	8.5	6.1	5.0
1 M12 Bolt	Dead Load	7.6	4.8	3.1	6.9	5.1	3.7
	Dead Load + Floor Live Load	9.2	5.8	3.7	8.3	6.2	4.4
	Dead Load + Roof Live Load	10.3	6.5	4.2	9.3	6.9	4.9
3 Nails	Dead Load + Wind Load	5.4	3.9	2.7	5.4	3.9	3.2
4 Nails	Dead Load + Wind Load	7.2	5.2	3.6	7.2	5.2	4.2

\* A common joist size in Multinail software is 40x90 joist hanger which uses 5 nails per wing into supporting member and 3 nails each wing to carried joist or truss.

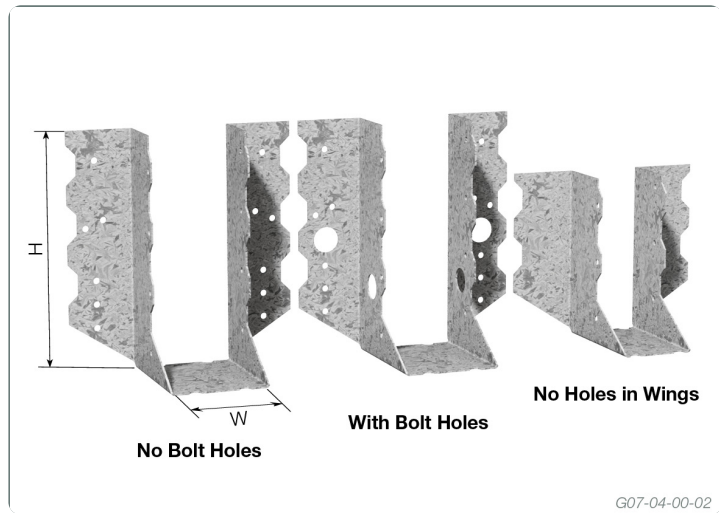
The spans in the table have been determined for domestic housing situations with floor live loads of 1.5kPa. The joint group refers to that of the supporting bearer/beam.

Maximum Span of Floor Joists Supporting Normal Floor Coverings						
No. of nails per wing	450mm Floor Joist Centres			600mm Floor Joist Centres		
	JD3/J2	JD4/J3	J4	JD3/J2	JD4/J3	J4
6	7500	5400	3900	6000	4300	3100
7	8700	6300	4400	7000	5000	3500

DESCRIPTION AND PACKAGING

Manufactured from 1.0mm Galvanised G300 Z275 Steel

Description	Product Code	Reference Code	Carton quantity	Carton kg.
W x H - No Bolt Holes				
40 x 90	TA017	JHN40090	60	7.5
40 x 125	TA077	JHN40125	60	9.5
40 x 185	TA080	JHN40185	60	13.0
50 x 84	TA076	JHN50084	60	7.0
50 x 120	TA078	JHN50120	60	9.5
50 x 180	TA047	JHN50180	60	13.0
W x H - No Bolt Holes In Wings				
40 x 90	TA011	JHWH40090	60	7.5
W x H - With Bolt Holes				
40 x 90	TA016	JHB40090	60	7.5
40 x 125	TA020	JHB40125	60	9.5
40 x 185	TA021	JHB40185	60	13
50 x 84	TA018	JHB50084	60	7
50 x 120	TA022	JHB50120	60	9.5
50 x 180	TA081	JHB50180	60	13
30mm x 2.8Ø Multinail Nails (TA302)				
M12 x 65mm Multinail Hex Head Bolt (TA091),				
M12 x 100mm Multinail Hex Head Bolt (TA092),				



Due to continual product improvement Multinail Australia Pty Ltd. reserves the right to change the product/s depicted - both in description and specification. This document has to be read in conjunction with Multinail's Technical Manual.