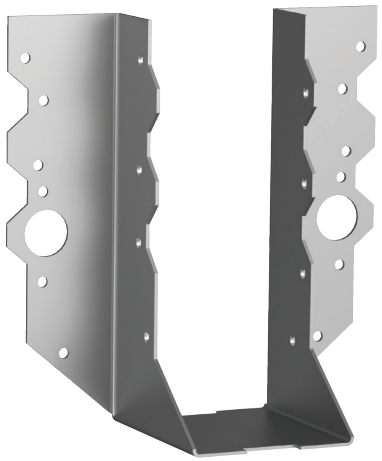
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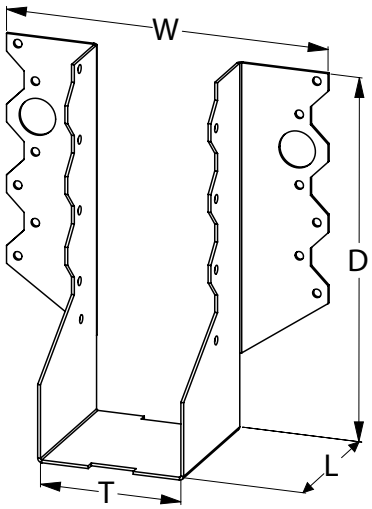
Galvanised Joist Hangers

The Galvanised Joist Hangers have a reliable fixing capacity for design to AS 1720.1 and a fast fixing method with no pre-drilling required.

Applications
• Connects joists to beams • Connects rafters to fascias • Connects floor trusses to beams • Connects beams to masonry

Material	G300 Structural Steel
Finish	Z275 Galvanised Z275





Part	QFind	Nail Size	Width	Length	Thickness	Depth
		Ød (mm)	**W** (mm)	**L** (mm)	**T** (mm)	**D** (mm)
HHJMGD-035090	**GD-035090**	2.8	100	55	35	83.5
HHJMGD-035120	**GD-035120**	2.8	100	55	35	120.0
HHJMGD-035190	**GD-035190**	2.8	100	55	35	182.0
HHJMGD-045090	**GD-045090**	2.8	110	55	45	76.0
HHJMGD-045120	**GD-045120**	2.8	110	55	45	110.0
HHJMGD-045140	**GD-045140**	2.8	110	55	45	130.0
HHJMGD-045190	**GD-045190**	2.8	110	55	45	175.0
HHJMGD-050090	**GD-050090**	2.8	115	55	50	76.0
HHJMGD-050120	**GD-050120**	2.8	115	55	50	110.0
HHJMGD-050140	**GD-050140**	2.8	115	55	50	130.0
HHJMGD-050190	**GD-050190**	2.8	115	55	50	175.0

Fixing Sizes		
	(mm)	
Small hole	3.0 - 3.1	For 2.8mm Nail
Large hole	13.0 - 13.2	For M12 Bolt

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Galvanised Joist Hangers

Installation

Table 1 - Design Capacity Factor

Design capacities have been derived from AS1720.1 for category 1 applications. The following adjustment factors should be applied for category C2 or C3 applications.

Design Category	**C1** (mm)	**C2** (mm)	**C3** (mm)
Adjustment Factor	1.00	0.94	0.88

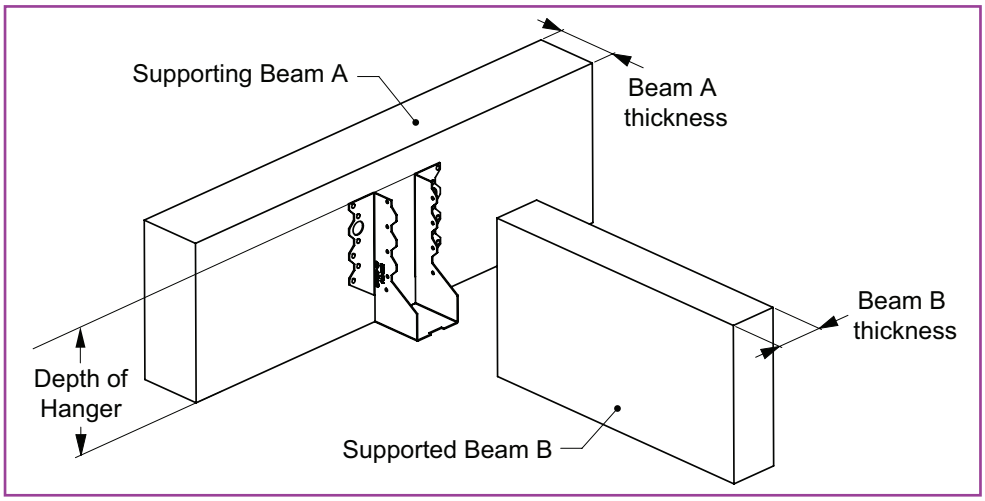
Table 2 - Nail Requirements

Minimum nail size to achieve stated design capacities:
30 x Ø2.8mm Hot Dip Galvanised Nails

Hanger Size	**Nails in Beam**	
(mm)	**A** (mm)	**B** (mm)
90	8	6
120	12	8
140	12	8
190	20	12

Installation Guide

1. Select the appropriate size joist hanger for the connection.
2. Fix joist hanger to the supporting beam [A] by installing the required number of nails from Table 2 or 2 M12 Bolts with 50x3mm square washers.
3. Place the *supported beam [B]* into the joist hanger ensuring that it is firmly against the *supporting beam [A].*
4. Drive the required number of nails from Table 2 or with 2 M12 Hex Bolts into the *supported beam [B].*



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Galvanised Joist Hangers

Limit Design Capacities (AS 1720.1)

Limit State Design – Fixing with Nails



Dead Load [Table 3] *Critical Connection – Supporting Beam [A] k1=0.57*										
Hanger Depth	Unseasoned (kN)					Seasoned (kN)				
(mm)	J2	J3	J4	J5	J6	JD2	JD3	JD4	JD5	JD6
90	4.3	3.1	2.2	1.7	1.2	5.5	4.3	3.1	2.5	1.9
120	5.7	4.1	2.9	2.2	1.6	7.7	6.0	4.3	3.5	2.7
140	5.7	4.1	2.9	2.2	1.6	7.7	6.0	4.3	3.5	2.7
190	8.7	6.2	4.4	3.3	2.5	12.3	9.7	7.0	5.7	4.3

Dead Load + Floor Live Load [Table 4] *Critical Connection – Supporting Beam [A] k1=0.69*										
Hanger Depth	Unseasoned (kN)					Seasoned (kN)				
(mm)	J2	J3	J4	J5	J6	JD2	JD3	JD4	JD5	JD6
90	5.2	3.7	2.6	2.0	1.5	6.6	5.2	3.7	3.1	2.3
120	6.9	4.9	3.5	2.6	2.0	9.3	7.3	5.2	4.3	3.3
140	6.9	4.9	3.5	2.6	2.0	9.3	7.3	5.2	4.3	3.3
190	10.5	7.5	5.3	4.0	3.0	14.9	11.8	8.4	6.9	5.3

Dead Load + Roof Live Load [Table 5] *Critical Connection – Supporting Beam [A] k1=0.77*										
Hanger Depth	Unseasoned (kN)					Seasoned (kN)				
(mm)	J2	J3	J4	J5	J6	JD2	JD3	JD4	JD5	JD6
90	5.8	4.2	3.0	2.2	1.7	7.4	5.8	4.2	3.4	2.6
120	7.7	5.5	3.9	2.9	2.2	10.4	8.2	5.8	4.8	3.6
140	7.7	5.5	3.9	2.9	2.2	10.4	8.2	5.8	4.8	3.6
190	11.7	8.4	5.9	4.5	3.3	16.7	13.1	9.4	7.7	5.9

Dead Load + Wind Uplift [Table 6] *Critical Connection – Supported Beam [B] k1=1.14*										
Hanger Depth	Unseasoned (kN)					Seasoned (kN)				
(mm)	J2	J3	J4	J5	J6	JD2	JD3	JD4	JD5	JD6
90	6.5	4.6	3.3	2.5	1.8	8.2	6.5	4.6	3.8	2.9
120	8.7	6.2	4.4	3.3	2.5	11.0	8.7	6.2	5.1	3.9
140	8.7	6.2	4.4	3.3	2.5	11.0	8.7	6.2	5.1	3.9
190	10.4	7.4	5.2	4.0	3.0	14.8	11.7	8.4	6.8	5.2

Refer to table 2 for Nail Requirements

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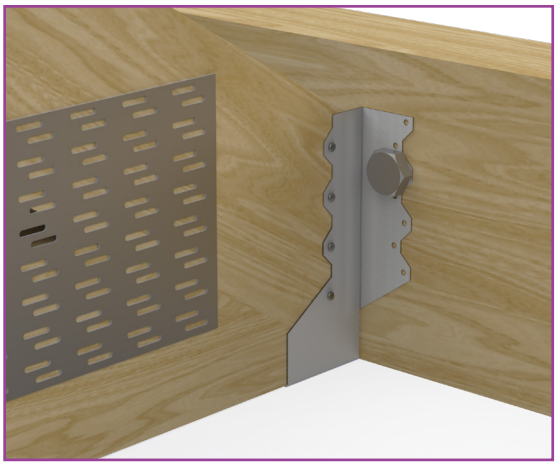
Galvanised Joist Hangers

Limit State Design – Fixing with Bolts

Dead Load + Floor Live Load [Table 7] Critical Connection – Supporting Beam [A] k1=0.69					
Effective Timber Thickness	**Unseasoned** (kN)				
B_{ef}	**J2**	**J3**	**J4**	**J5**	**J6**
25	7.7	6.2	4.9	3.9	3.2
38	11.7	9.5	7.5	5.9	4.8
50	13.0	12.0	9.5	7.7	6.3
75	13.0	12.0	9.5	8.2	7.3
100	13.0	12.0	9.5	8.2	7.3
150	13.0	12.0	9.5	8.2	7.3
200	13.0	12.0	9.5	8.2	7.3

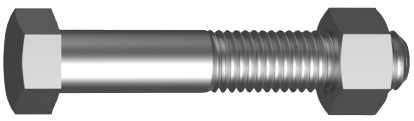
Dead Load + Floor Live Load [Table 8] Critical Connection – Supporting Beam [A] k1=0.69					
Effective Timber Thickness	**Seasoned** (kN)				
B_{ef}	**JD2**	**JD3**	**JD4**	**JD5**	**JD6**
25	9.7	7.7	6.2	4.9	3.9
35	13.7	10.8	8.8	6.9	5.4
40	15.6	12.4	10.0	7.9	6.2
45	16.4	14.0	11.3	8.9	6.9
70	16.4	14.9	12.0	10.4	8.9
90	16.4	14.9	12.0	10.4	8.9
105	16.4	14.9	12.0	10.4	8.9
120	16.4	14.9	12.0	10.4	8.9

Related Parts	Description
KBH46GCM12	HDG 4.6 B/N KIT
WSMSGM12050030	HDG MS SQ WASH: M12 50 x 50 x 3



Installation Detail for Fixing with Bolts

Use one M12 bolt in each wing of the joist hanger. Square washers with a minimum side length of 50mm and thickness of 3mm should be used on the nut side.



KBH46GCM12



WSMSGM12050030

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