



PRODUCT DATA

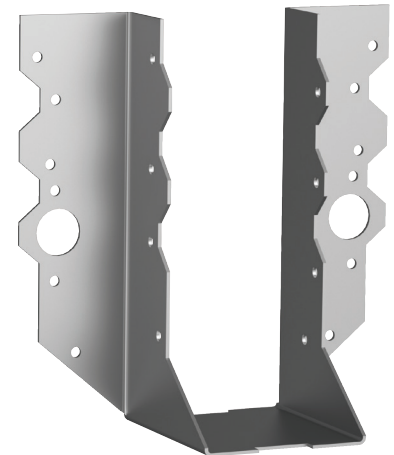
316 SS Joist Hangers

Stainless steel joist hangers have a reliable fixing capacity to AS 1720.1 and a fast fixing method with no pre-drilling required.

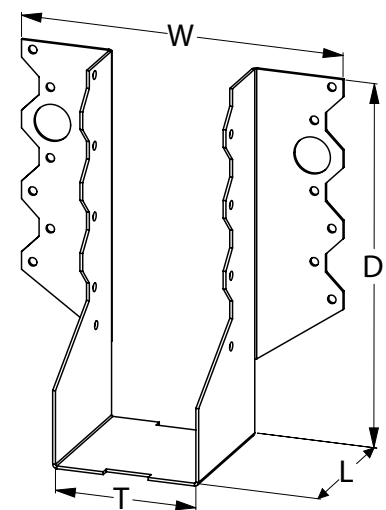
Applications	
•	Joists to beams
•	Rafters to fascias
•	Floor trusses to beams
•	Beams to masonry

Material	 316 Stainless
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Finish	 316 Stainless
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Part	QFind	Nail Size	Width	Length	Thickness	Depth
		Ød (mm)	W (mm)	L (mm)	T (mm)	D (mm)
HHJ16D-035090	6D-035090	2.8	100	55	35	83.5
HHJ16D-035120	6D-035120	2.8	100	55	35	120.0
HHJ16D-035190	6D-035190	2.8	100	55	35	182.0
HHJ16D-045090	6D-045090	2.8	110	55	45	76.0
HHJ16D-045120	6D-045120	2.8	110	55	45	110.0
HHJ16D-045140	6D-045140	2.8	110	55	45	130.0
HHJ16D-045190	6D-045190	2.8	110	55	45	175.0
HHJ16D-050090	6D-050090	2.8	115	55	50	76.0
HHJ16D-050120	6D-050120	2.8	115	55	50	110.0
HHJ16D-050140	6D-050140	2.8	115	55	50	130.0
HHJ16D-050190	6D-050190	2.8	115	55	50	175.0

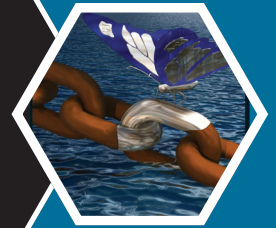


Fixing Sizes		
	(mm)	
Small Hole	3.0 - 3.1	For 2.8mm Nail
Large Hole	13.0 - 13.2	For M12 Bolt

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Installation

Table 1 – Design Capacity Factor

Design capacities have been derived from AS 1720.1 for Category 1 applications. Adjustment factors should be applied for Category C2 and C3 applications.

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

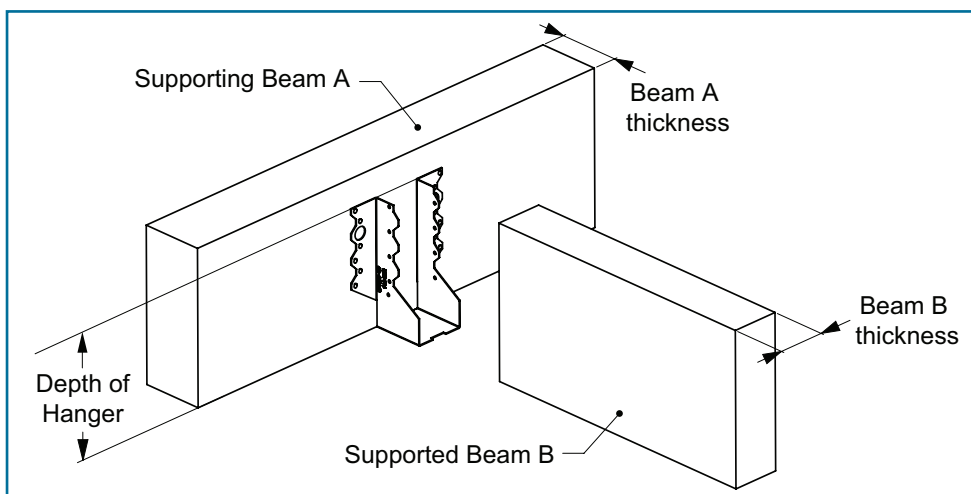
Table 2 – Nail Requirements

Minimum nail size to achieve stated design capacities:
30 x Ø2.8 mm stainless steel nails.

Hanger Size (mm)	Nails in Beam	
	A (mm)	B (mm)
90	8	6
120	12	8
140	20	8
190	28	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 two M12 Bolts with 50x3 mm square washers.
3. Place the *supported beam (B)* into the joist hanger, ensuring that it is firmly against the *supporting beam (A)*.
4. Drive two M12 Hex Bolts or the required number of nails from Table 2 into the *supported beam (B)*.



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Limit Design Capacities (AS 1720.1)

Limit State Design – Fixing with Nails

Table 3: Dead Load
Critical Connection – Supporting Beam [A] k1=0.57

Hanger Depth (mm)	Unseasoned (kN)					Seasoned (kN)				
	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

Table 4: Dead Load + Floor Live Load
Critical Connection – Supporting Beam [A] k1=0.69

Hanger Depth (mm)	Unseasoned (kN)					Seasoned (kN)				
	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

Table 5: Dead Load + Roof Live Load
Critical Connection – Supporting Beam [A] k1=0.77

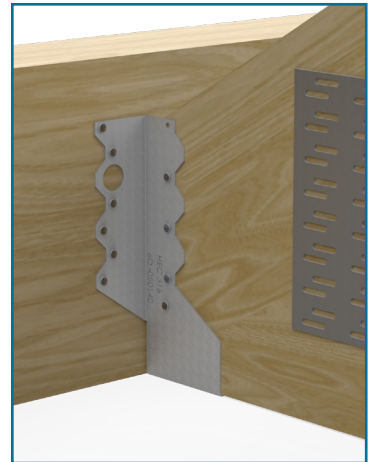
Hanger Depth (mm)	Unseasoned (kN)					Seasoned (kN)				
	J2	J3	J4	J5	J6	JD2	JD3	JD4	JD5	JD6
90	5.8	4.2	3.0	2.2	1.7	7.4	5.8	4.2	3.4	2.6
120	7.7	5.5	3.9	2.9	2.2	10.4	8.2	5.8	4.8	3.6
140	7.7	5.5	3.9	2.9	2.2	10.4	8.2	5.8	4.8	3.6
190	11.7	8.4	5.9	4.5	3.3	16.7	13.1	9.4	7.7	5.9

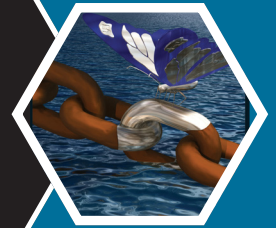
Table 6: Dead Load + Wind Uplift
Critical Connection – Supported Beam [B] k1=1.14

Hanger Depth (mm)	Unseasoned (kN)					Seasoned (kN)				
	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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Limit State Design – Fixing with Bolts

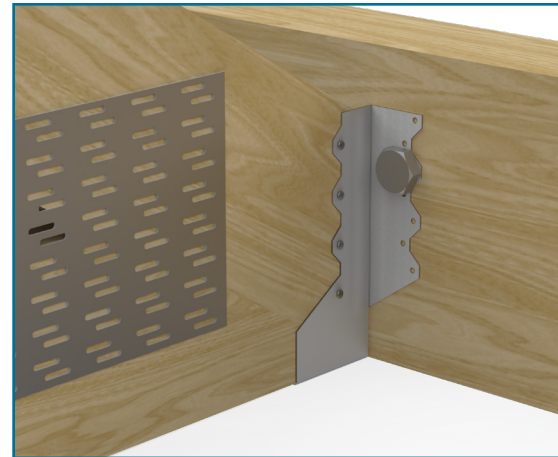
Table 7: Dead Load + Floor Live Load
Critical Connection – Supporting Beam [A] k1=0.69

Effective Timber Thickness	Unseasoned (kN)				
	J2	J3	J4	J5	J6
B_{ef}					
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

Table 8: Dead Load + Floor Live Load
Critical Connection – Supporting Beam [A] k1=0.69

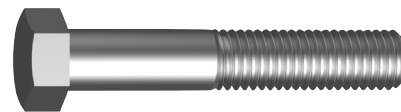
Effective Timber Thickness	Seasoned (kN)				
	JD2	JD3	JD4	JD5	JD6
B_{ef}					
25	9.7	7.7	6.2	4.9	3.9
35	13.7	10.8	8.8	6.9	5.4
40	15.6	12.4	10.0	7.9	6.2
45	16.4	14.0	11.3	8.9	6.9
70	16.4	14.9	12.0	10.4	8.9
90	16.4	14.9	12.0	10.4	8.9
105	16.4	14.9	12.0	10.4	8.9
120	16.4	14.9	12.0	10.4	8.9

Related Parts	Description
BH16PCM12	A4-70 HEXBOLT DIN931
NH16PCM12	A4-50 DIN 934 HEX NUT
WS16PM12050030	316 SQ WASHER: M12 50X50X3

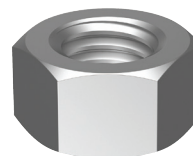


Installation Detail for Fixing with Bolts

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



BH16PCM12



NH16PCM12



WS16PM12050030

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