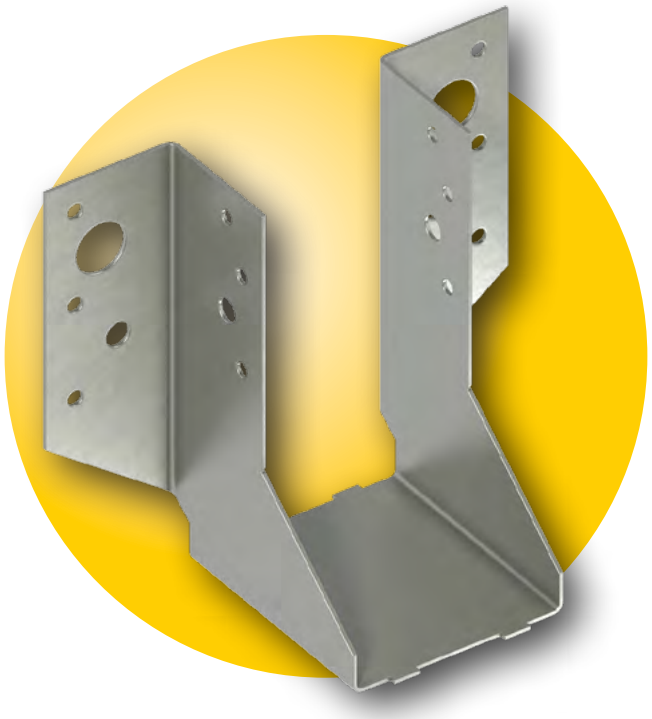
ENGINEERED BUILDING PRODUCTS

JOISTHANGER

STAINLESS STEEL

MiTek®

creating the advantage



FOR FACE FIXING OF JOISTS TO BEAMS, POSISTRUT TRUSSES TO BEAMS AND ROOF TRUSSES TO GIRDERS IN CORROSIVE ENVIRONMENTS

APPLICATION:

The Stainless Steel JoistHanger has been developed as an economical and effective way to fasten joists, PosiStrut floor trusses and roof trusses to the face of beams and girders in corrosive environments.

USES

In corrosive environments, Stainless Steel JoistHangers provide a simple but effective way to:

- Fasten joists to the face of beams.
- Fasten 70mm and 90mm thick PosiStrut floor trusses to the face of other beams.
- Fasten small span standard trusses to girder trusses.

ADVANTAGES

- Fast fixing method, providing a reliable fixing capacity.
- Simple nail fixing.
- No drilling required.

SPECIFICATIONS:

Steel Grade	**Stainless Steel 304-2B**
Thickness (Total Coated)	**0.90 mm**
Nails	**MiTek 30 x 3.15 mm annular grooved stainless steel**
Product Code	**See Table**

This Engineered Building Product complies with the National Construction Code Series and Australian Standards.

JoistHanger Stainless Steel - Sizes

Stainless Steel JoistHangers are available in a range of sizes to suit most common timber dimensions. The sizes used for seasoned and dressed timber will generally be different than the size for unseasoned rough sawn material.

Use Table1 to select an appropriate Stainless Steel JoistHanger size.

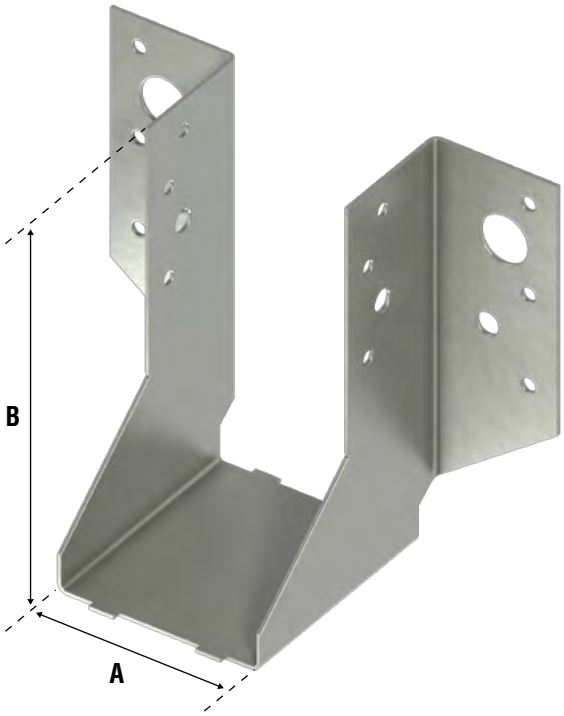


Table 1. JoistHanger Sizes

Product Code	Size	Dimensions (mm)	
		A	B
JH4790SS	47x 90	47	93
JH47120SS	47x 120	47	124
JH47190SS	47x 190	47	193
JH70180SS	70x 177	70	177
JH95165SS	95x 165	95	164

When different timbers are used in each member, base'DL Only' and 'DL+LL' capacities on joint group of supporting member, and base 'DL+WL' capacity on the weaker joint group of either member.

Table 2. Limit State Design Capacity (kN)

JoistHanger Type	Loading Type	Joint Group									
		J2	J3	J4	J5	J6	JD2	JD3	JD4	JD5	JD6
JH4790SS	DL Only	3.0	2.1	1.5	1.1	0.8	3.8	3.0	2.1	1.8	1.3
	DL + Floor LL	3.6	2.5	1.8	1.3	1.0	4.6	3.6	2.6	2.2	1.6
	DL + Roof LL	4.1	2.8	2.0	1.5	1.1	5.1	4.1	2.8	2.4	1.8
	DL + WL	6.1	4.3	3.1	2.4	1.7	7.8	6.1	4.3	3.7	2.7
JH47120SS	DL Only	5.3	3.8	2.7	2.0	1.5	6.8	5.3	3.8	3.2	2.3
	DL + Floor LL	6.4	4.6	3.2	2.5	1.8	8.2	6.4	4.6	3.8	2.8
	DL + Roof LL	7.2	5.1	3.6	2.8	2.0	9.1	7.2	5.1	4.3	3.1
	DL + WL	9.1	6.5	4.6	3.5	2.6	11.6	9.1	6.5	5.4	4.0
JH47190SS	DL Only	7.4	5.3	3.7	2.9	2.1	9.5	7.4	5.3	4.4	3.3
	DL + Floor LL	9.0	6.4	4.5	3.5	2.5	11.5	9.0	6.4	5.3	4.0
	DL + Roof LL	10.0	7.2	5.0	3.9	2.8	12.8	10.0	7.2	5.9	4.5
	DL + WL	15.0	10.7	7.5	5.9	4.3	19.0	14.9	10.7	8.9	6.6
JH70180SS JH95165SS	DL Only	6.8	4.8	3.4	2.6	1.9	8.6	6.8	4.8	4.0	3.0
	DL + Floor LL	8.2	5.8	4.1	3.1	2.3	10.4	8.2	5.8	4.8	3.6
	DL + Roof LL	9.2	6.5	4.6	3.5	2.6	11.6	9.2	6.5	5.4	4.1
	DL + WL	13.7	9.7	6.9	5.4	3.9	17.3	13.6	9.7	8.1	6.0

Values in tables incorporate the Category 1 capacity factor (Ø) for houses. For other categories, multiply the design capacities by the following factors. Refer to AS1720.1 for a full definition of each category.

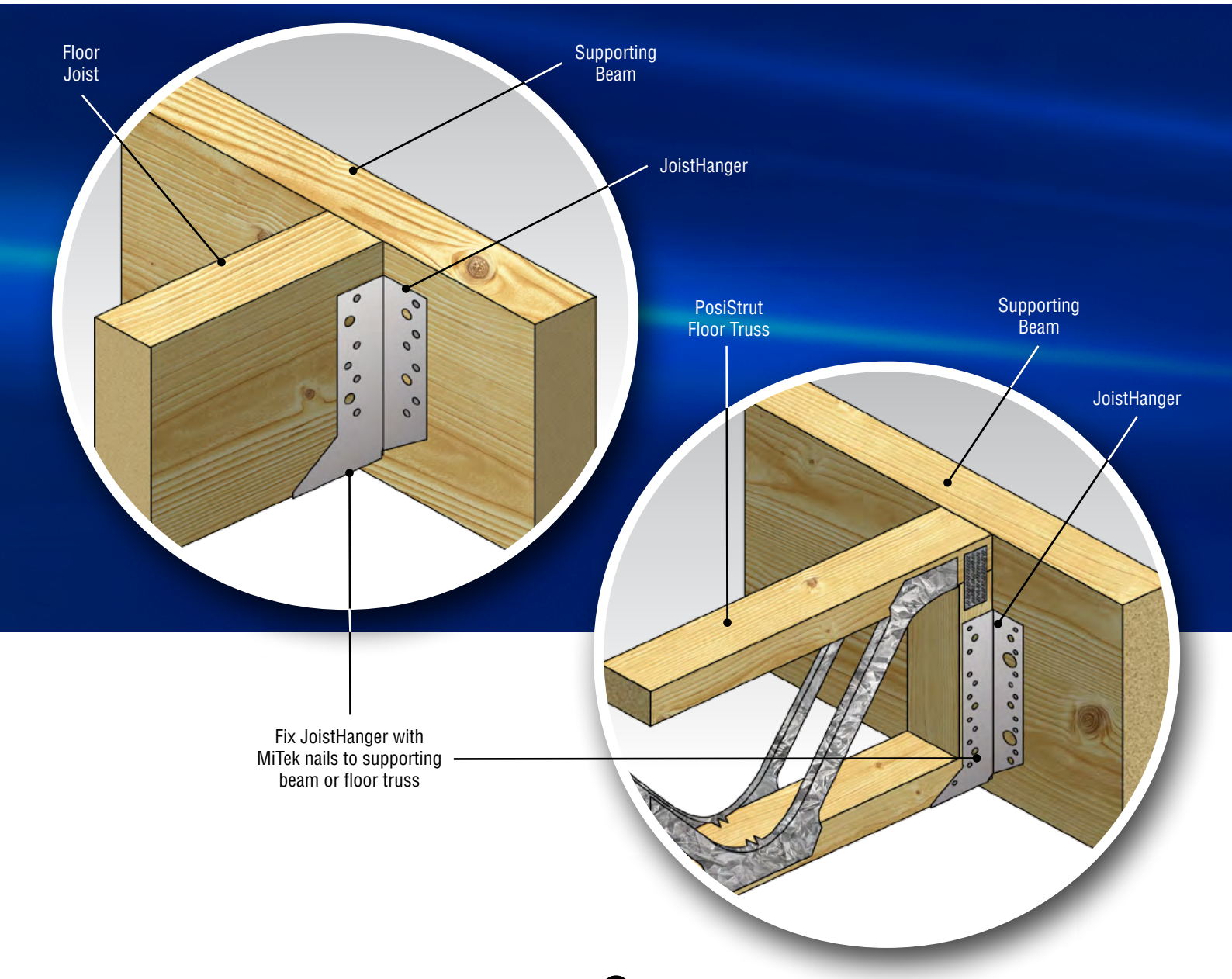
Category	1	2	3
Adjustment factor	1.00	0.94	0.88

Use only MiTek 30 x 3.15mm annular grooved stainless steel nails as required in Table 3 (below) to achieve the design loads in Tables 2.

Table 3. Number of nails required for varying JoistHanger depths		
JoistHanger Size (mm)	**Fixing to Supporting Member**	**Fixing to Supported Member**
JH4790SS	6	6
JH47120SS	12	10
JH47190SS	18	18
JH70180SS	16	16
JH95165SS	16	16

Joist and PosiStrut Trusses to Beams

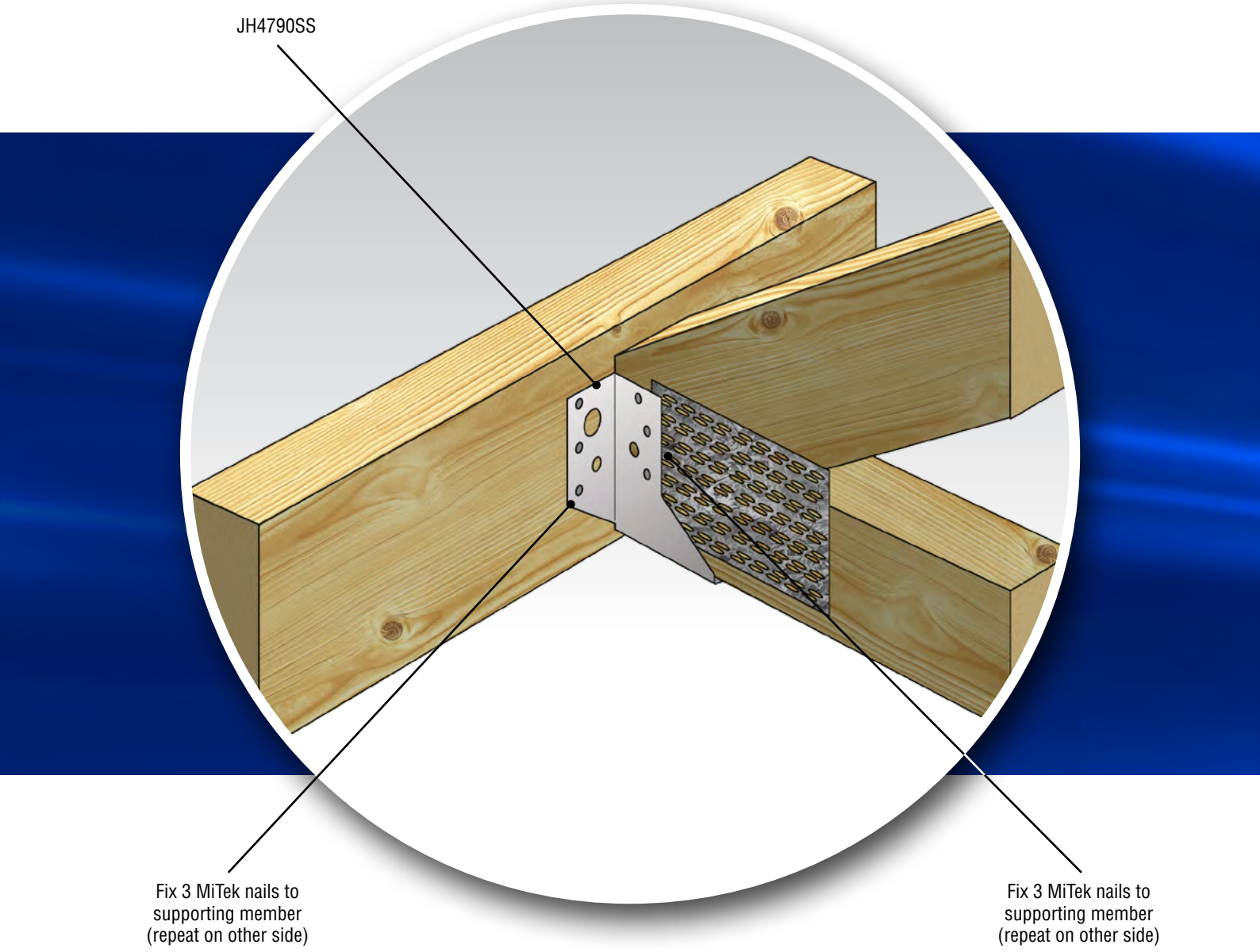
1. Select the JoistHanger size so that it fits neatly over the member to be supported. Note sizes are available to suit full size or dressed timber. JoistHanger depth to be selected using Table 2 to ensure that size selected will safely carry the applied load.
2. The JoistHanger should be fixed to the supporting member first using the number of nails specified in Table 3.
3. Place the member to be supported in the JoistHanger so that it is firmly against the supporting member.
4. Drive the number of nails into the supporting member as specified in Table 3.



Standard Trusses to Girders

1. Select JoistHanger size using Table 2 to ensure that size selected will safely carry the applied load.
2. Fix the JoistHanger using similar step 2 to 4 above of the fixing of the Joist and PosiStrut Trusses to Beams.

Fixing to girder truss using JoistHanger



For more information about MiTek's Engineered Building Products or any other MiTek products or your nearest licensed MiTek fabricator, please call your local state office or visit: **mitek.com.au**