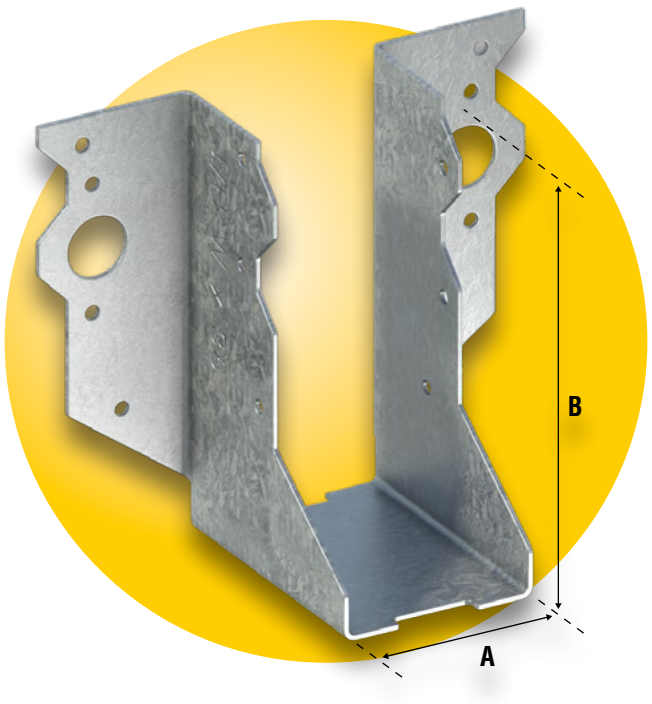
ENGINEERED BUILDING PRODUCTS

# JoistHanger

MiTek®

creating the advantage




# FOR FACE FIXING OF JOISTS TO BEAMS, POSISTRUT TRUSSES TO BEAMS AND ROOF TRUSSES TO GIRDERS

## APPLICATION:

The 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.

JoistHangers are available in a range of sizes to suit most common timber dimensions. The sizes used for dressed timber will generally be different than those for unseasoned, rough sawn material. Use Table 1 to select an appropriate JoistHanger size.

## USES

**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.

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

## SPECIFICATIONS:

| | |
|---|---|
| **Steel Grade** | **G300** |
| **Thickness (Total Coated)** | **1.0 mm** |
| **Galvanized Coating** | **Z275** |
| **Nails** | **MiTek 30 x 2.8mm hot dipped galvanized reinforced head.** |
| **Product Code** | **See Table** |

| Table 1. JoistHanger Sizes | | | |
|---|---|---|---|
| Product Code | Size | Dimensions (mm) | |
| | | A | B |
| JH3590 | 35 x 90 | 36 | 84 |
| JH35120 | 35 x 120 | 36 | 117 |
| JH4090 | 40 x 90 | 41 | 82 |
| JH40120 | 40 x 120 | 41 | 115 |
| JH40190 | 40 x 190 | 41 | 180 |
| JH4590 | 45 x 90 | 46 | 79 |
| JH45120 | 45 x 120 | 46 | 112 |
| JH45140 | 45 x 140 | 45 | 139 |
| JH45190 | 45 x 190 | 46 | 177 |
| JH45220 | 45 x 220 | 46 | 214 |
| JH5090 | 50 x 90 | 51 | 77 |
| JH50120 | 50 x 120 | 51 | 110 |
| JH50190 | 50 x 190 | 51 | 175 |
| JH65165 | 65 x 165 | 65 | 167 |
| JH70160 | 70 x 160 | 70 | 165 |
| JH95150 | 95 x 150 | 95 | 152 |

Values in the following 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 |

**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 Size | Loading Type | Joint Group | | | | | | | | | |
| | | J2 | J3 | J4 | J5 | J6 | JD2 | JD3 | JD4 | JD5 | JD6 |
| 90mm Deep | DL Only | 4.3 | 3.1 | 2.2 | 1.7 | 1.2 | 5.5 | 4.3 | 3.1 | 2.5 | 1.9 |
| | DL + Floor LL | 5.2 | 3.7 | 2.6 | 2.0 | 1.5 | 6.6 | 5.2 | 3.7 | 3.1 | 2.3 |
| | DL + Roof LL | 5.8 | 4.2 | 3.0 | 2.2 | 1.7 | 7.4 | 5.8 | 4.2 | 3.4 | 2.6 |
| | DL + WL | 6.5 | 4.6 | 3.3 | 2.5 | 1.8 | 8.2 | 6.5 | 4.6 | 3.8 | 2.9 |
| 140mm Deep | DL Only | 5.7 | 4.1 | 2.9 | 2.2 | 1.6 | 7.7 | 6.0 | 4.3 | 3.5 | 2.7 |
| | DL + Floor LL | 6.9 | 4.9 | 3.5 | 2.6 | 2.0 | 9.3 | 7.3 | 5.2 | 4.3 | 3.3 |
| | DL + Roof LL | 7.7 | 5.5 | 3.9 | 2.9 | 2.2 | 10.3 | 8.2 | 5.8 | 4.8 | 3.6 |
| | DL + WL | 8.7 | 6.2 | 4.4 | 3.3 | 2.5 | 11.0 | 8.7 | 6.2 | 5.1 | 3.9 |
| 190mm Deep | DL Only | 8.7 | 6.2 | 4.4 | 3.3 | 2.5 | 12.3 | 9.7 | 7.0 | 5.7 | 4.3 |
| | DL + Floor LL | 10.5 | 7.5 | 5.3 | 4.0 | 3.0 | 14.9 | 11.8 | 8.4 | 6.9 | 5.3 |
| | DL + Roof LL | 11.7 | 8.4 | 5.9 | 4.5 | 3.3 | 16.7 | 13.1 | 9.4 | 7.7 | 5.9 |
| | DL + WL | 10.4 | 7.4 | 5.2 | 4.0 | 3.0 | 14.8 | 11.7 | 8.4 | 6.8 | 5.2 |
| 220mm Deep | DL Only | 11.8 | 8.4 | 6.0 | 4.5 | 3.4 | 13.3 | 13.3 | 9.5 | 7.8 | 5.9 |
| | DL + Floor LL | 14.3 | 10.2 | 7.2 | 5.5 | 4.1 | 16.1 | 16.1 | 11.5 | 9.5 | 7.2 |
| | DL + Roof LL | 16.0 | 11.4 | 8.1 | 6.1 | 4.5 | 18.0 | 18.0 | 12.9 | 10.5 | 8.0 |
| | DL + WL | 13.5 | 9.7 | 6.8 | 5.2 | 3.8 | 15.2 | 15.2 | 10.9 | 8.9 | 6.8 |

# FLOOR TRUSS TO GIRDER TRUSS OR BEAMS

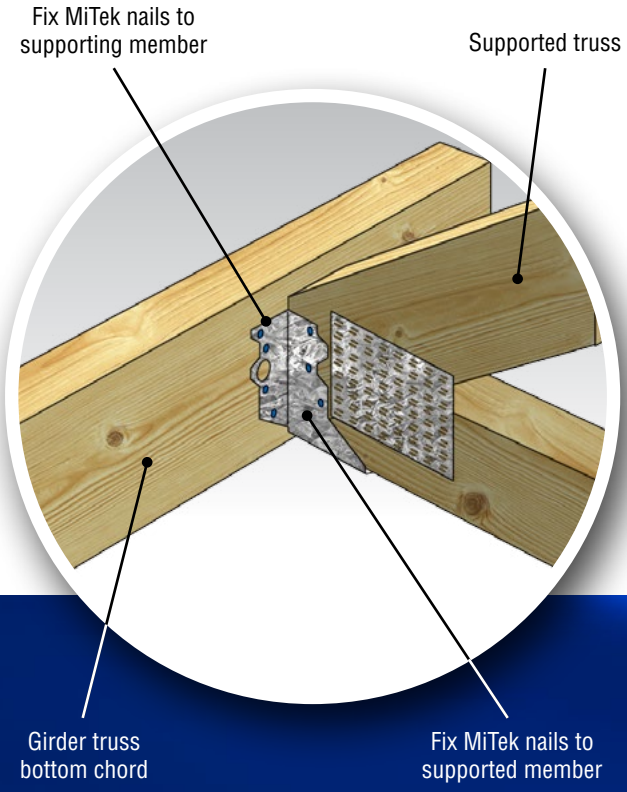
### General Installation

1. The JoistHanger should be fixed to the supporting member using the number of nails specified in Table 3.
2. Place the member to be supported in the JoistHanger so that it is firmly against the supporting member.
3. Drive the number of nails into the supported member as specified in Table 3.
4. Where the girder truss \ supporting beam is of multiple ply construction, fasten the bottom chords of the girder truss or the supporting beams with one M12 bolt located within 100mm of each side of the JoistHanger.

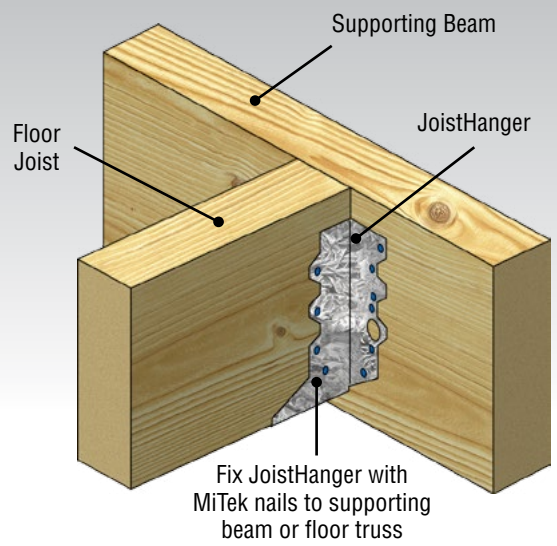
   Alternatively, use two sufficiently long No. 14 screws in place of one M12 bolt.

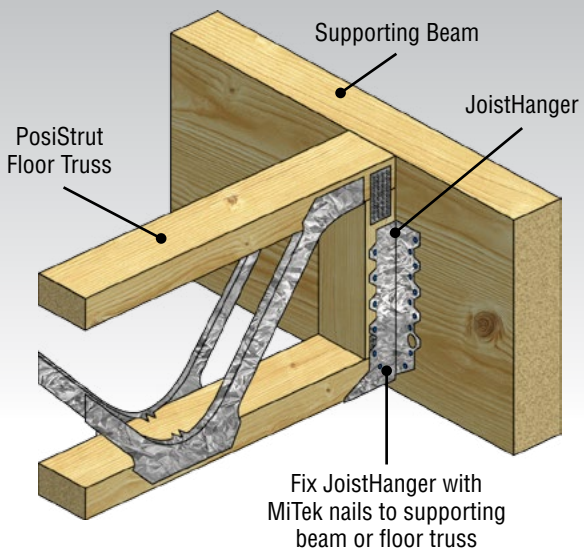
**Table 3. Nailing Requirements**

| JoistHanger Size (mm) | Fixing to | |
|---|---|---|
| | Supporting Member | Supported Member |
| 90 | 8 | 6 |
| 120 to 140 | 12 | 8 |
| 150 to 190 | 20 | 12 |
| 220 | 28 | 16 |




# FLOOR JOIST AND FLOOR TRUSSES TO BEAMS

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