

## INSTALLATION REFERENCE SHEET

The meyJOIST Install Reference Sheet contains common requirements for meyJOIST floor system installation used in houses. For detailed design or items not included, the meyJOIST Product Manual should be consulted by scanning the QR code over the page, or at: [www.timbertrading.com.au](http://www.timbertrading.com.au)

### BASIC REQUIREMENTS

- **STORAGE** - meyJOIST should be stored level and dry at least 150mm clear of the ground.
- **JOIST LOCATION** - As per floor layout (if supplied) and not to be spaced further than specified.
- **FIXING TO SUPPORTS** - Use 2/3.06Ø nails per support. Supports to be dry, level, & rigid. Moisture Barriers are recommended if supporting directly on masonry. Provide bearing across full width of meyJOIST.
- **FIXING OF FLOORING** - Flooring should be secured to meyJOIST using screws or ring/twist shank nails recommended for the particular flooring type. Flooring adhesive must be used in conjunction with fasteners to minimise any chance of long term floor squeak.
- **CONSTRUCTION LOADS** - Lateral restraint blocking and floor sheathing **MUST** be installed before applying any construction loads. Refer to **Product Manual** for advice on allowable loading and locations.

**Minimum Bearing Requirements:**  
 End Support Floor Only = 30mm  
 End Support Floor & Sheet Roof = 45mm (70)  
 End Support Floor & Tile Roof = 70mm (90)  
 Internal Support Floor Only = 45mm (70)

- Values in brackets to be used for 600mm joist spacing.
- If using continuous blocking/rimboard/boundary joist, the bearing can be reduced to 30mm.
- Compression blocks or full depth blocking is required to transfer concentrated loads from above.

**Lateral Restraint:**  
 Full depth meyJOIST blocking is required above every support. Use minimum single blocks at maximum 1800mm spacing or a pair of blocks at maximum 3600mm spacing. Blocks required at start and end of joist run. Alternatively, rimboard or boundary joists can be utilised for lateral restraint.

### MINIMUM DISTANCE (in mm) TO FACE OF SUPPORT FOR HOLES AT 450mm JOIST SPACING

LOADING: DEAD LOAD = 100 kg/m<sup>2</sup> and LIVE LOAD = 1.5 kPa/1.8 kN

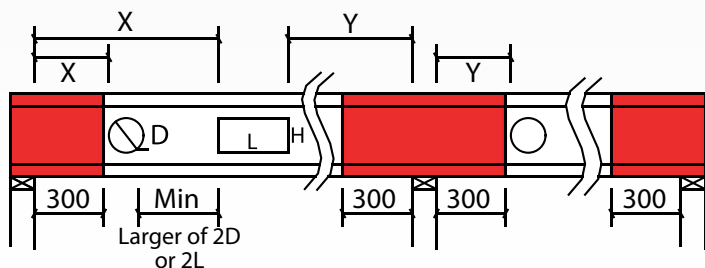
meyJOIST	SUPPORT	MINIMUM EDGE DISTANCES TO FACE OF SUPPORT (mm)			
		HOLE DIAMETER (mm)		RECTANGULAR (mm)	
		80	125	150x300	200x300
MJ200 45	End (X)	300	N/S		
	Intermediate (Y)		N/S		
MJ240 45	End (X)		300	750	N/S
	Intermediate (Y)		800	1500	
MJ240 90	End (X)		300	1050	
	Intermediate (Y)		1600	2100	
MJ300 45	End (X)	300	380	550	
	Intermediate (Y)		1450	1700	
MJ300 90	End (X)		300	1000	
	Intermediate (Y)		1450	2100	

#### NOTES:

1. "Intermediate" refers to internal supports of continuous span joists. All other cases shall be treated as "End" supports.
2. Locate hole at mid-span if X or Y value exceeds half span.
3. The above values are based on the maximum span that each joist can support.
4. Use MJ240 90 values for MJ240 63. Use MJ300 90 values for MJ300 63 and MJ360 90.
5. I-Joist Hole Support bracket (IHS) may allow holes closer to the support. See meyJOIST product manual for more information.

#### GENERAL HOLE INFORMATION:

1. No holes above 40mm allowed in red zone.
2. No more than 3 holes above 75mm in any one span.
3. Holes 40mm diameter or smaller allowed anywhere in web with minimum 2D distance between holes.



### NOTCHING or TAPERING meyJOIST FLANGES

Do not cut beyond the line of support



Detail F4/F7 shows allowable steel beam connections.

Do not drill or notch flanges



# SELECTED meyJOIST DETAILS

**Detail F1**  
Upper wall plate/batten fixed to joists and/or blocking

meyJOIST blocking secured using minimum 3/3.06Øx75mm long framing nails top and bottom

**Blocking with meyJOIST**

**Detail F4**

Web stiffener fixed using nails (not screws)

35mm thick (min) solid timber cut neatly between steel flanges and fixed to packers

70x35 (min) packers fixed to steel

Partial height joist hanger

STEEL BEAM

70x35 (min) packer on top of steel

Top mount joist hanger

Face mount joist hanger

**Hanger fixing options for meyJOIST to Steel**

**Detail F5**

Ensure adequate bearing length

Minimum 40mm end distance

3.06Øx75mm long framing nails through flanges. Typical one each side of web

**Fixing at supports**

**Detail F6**

3mm gap

No gap

3.06Ø clenched nails or 12g Type 17 Hex head screws

Web stiffener to be structural plywood or OSB, minimum 90mm wide.

meyJOIST flange width	45	63	90
Stiffener thickness	18	27	39
3.06Ø nail length	50	75	100
12g screw length	45	65	90(14g)

All dimensions in mm

≤300 deep use 3 nails or 2 screws each side  
>300 deep use 4 nails or 3 screws each side

**Web stiffener installation**

**Detail F7**

12mm (max)

Steel

12mm (max)

Notch must end within 5mm of support

Taper Cut within line of support only

**DO NOT OVERCUT**

Flange notching to occur at end supports only

**meyJOIST flange notching**

**Detail F8**

Maximum 1/2 joist depth

Portion may be removed within line of support only

Steel

3mm gap

No gap

3.06Ø clenched nails or 12g Type 17 Hex head screws as per Detail F6

Notch as per Detail F7 permissible

≤300 deep use 4 nails or 2 screws each side  
>300 deep use 5 nails or 3 screws each side

**meyJOIST short cantilever support**

**Detail F13**

meyJOIST or solid blocking for all cantilevered joists

End trimmer

Joist backspan not less than 2 times the cantilever span

For external use meyJOIST floor joists must be protected from becoming wet by a fully waterproof covering

Use full depth blocking or compression blocks to transfer roof loads to support

65mm minimum bearing

**meyJOIST cantilever for internal or weather proofed balcony application**

**Detail F14**

Loadbearing wall

Intermittent blocking

d

$L_c \leq d$

When specified install reinforcement as per Detail F21 or Detail F22

**meyJOIST short cantilever support**

**Detail F17**

Splice between joists using same material

Loadbearing wall

Wall Bottom Plate

Flooring

meyJOIST bearing to be as per supporting floor only

Rimboard (17mm F8 Plywood or 18mm OSB) or Boundary joist

Rimboard Fixing: To top and bottom flanges of every meyJOIST using 1/3.50Ø nail per flange. Length to allow for 30mm minimum penetration into meyJOIST - To wall plates or bearers using 3.50Ø nails at 150mm centres maximum. Nails to be driven at 45° with 30mm edge distance. Length to allow for 30mm minimum penetration into plate or bearer.

\*Refer product manual for rimboard suitability

**Rimboard or Boundary Joist with meyJOIST**

For other details not shown above, refer to the meyJOIST Product Manual.



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