

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 Guide should be consulted by scanning the QR Code over the page, or at www.meyertimber.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 nails or screws as recommended for the particular flooring type. It is strongly recommended that flooring adhesive is used in conjunction with fasteners to minimise chances of long term squeaks.

Minimum Bearing Requirements:
 End Support Floor Only = 30mm
 End Support Floor & Sheet Roof = 45mm (65)
 End Support Floor & Tile Roof = 65mm (90)
 Internal Support Floor Only = 45mm (65)

- 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.

Refer Detail F4/F6/F7/F8 for connection to steel beams

Brackets for meyJOIST to be as per layout or product guide

Refer Detail F11/F12 for setdown cantilevers for balconies

Stair Void

Install joists plumb (<1mm/300mm depth) and straight (<1mm/1m span). Temporary battens may be used prior to fixing flooring.

Web holes - refer to table for suitable locations

Refer Detail F14/F15 for loadbearing wall cantilevers

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

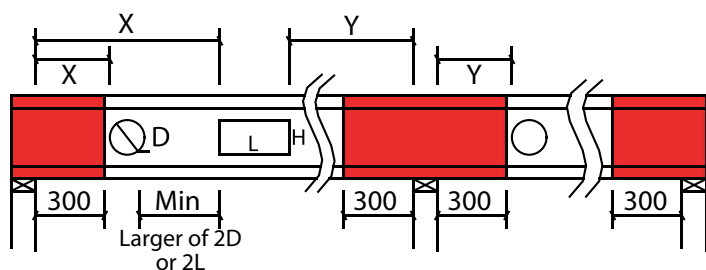
STANDARD FLOOR (Dead Load = 40 kg/m ² , Live Load = 1.5kPa/1.8kN)					
	Support ¹	80 dia	125 dia	150x300	200x300
MJ240	End (X)	300	300	1200	N/S
	Intermediate (Y)		1400	2300	
MJ300	End (X)		300	1200	1200
	Intermediate (Y)				2500
HEAVY FLOOR (Dead Load = 100 kg/m ² , Live Load = 1.5kPa/1.8kN)					
	Support ¹	80 dia	125 dia	150x300	200x300
MJ240	End (X)	300	700	1500	N/S
	Intermediate (Y)	600	1900	2600	
MJ255	End (X)	300	450	1500	N/S
	Intermediate (Y)	500	1500	2200	
MJ300	End (X)	300	300	1500	1500
	Intermediate (Y)		800		2800

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. 100kg/m² values to be used under wet areas. 40kg/m² values to be used in other cases.
4. The above values are based on the maximum span that each joist can support.
5. For MJ360 and MJ400 meyJOISTS, use MJ300 values unless determined by software or product manual.
6. Refer meyJOIST product manual or software for other hole sizes / locations / spans.

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. 20mm holes allowed anywhere in web with minimum 50mm between holes.
4. 40mm holes allowed in centre of web with minimum 100mm between holes.



NOTCHING or TAPERING meyJOIST FLANGES

Do not cut beyond the line of support



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 3/3.06Øx75 long framing nails

Blocking with meyJOIST

Detail F4

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

70x35 (min) packers fixed to steel

Web stiffener fixed using nails (not screws)

STEEL BEAM

Partial height joist hanger

70x35 (min) packer on top of steel

Top mount (IJT) joist hanger

Face mount (IJF) joist hanger

Hanger fixing options for meyJOIST to Steel

Detail F6

3mm gap

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

No gap

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

Max. 1/2 Joist Depth

Portion may be removed within line of support only

3mm gap

No gap

Steel

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

Notch as per Detail F7 allowed

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

meyJOIST web notching for steel

Detail F11

All fixings through web and packer into outrigger

Plywood packer top and bottom

Outrigger

meyJOIST

No gap

60

50 typ.

2 rows of screws or nails at 150 centres as shown

20

Minimum 1.5 x S_c

S_c

meyJOIST flange width	45	63	90
Packer thickness	18	27	39
2.8Ø nail length	50	65	N/A
12g screw length	50	65	75(14g)

All dimensions in mm

≤300 deep 7 nails or 4 screws each end
>300 deep 9 nails or 5 screws each end

Adjacent Outrigger

Detail F14

Loadbearing wall

Intermittent blocking

d

L_c ≤ d

When specified install reinforcement as per Detail F21 or Detail F22

meyJOIST short cantilever support

Detail F15a

Loadbearing wall

Continuous blocking

Wall tie-down to end trimmer by others

d

32-45mm thick end trimmer

L_c > d

When specified install reinforcement as per Detail F21 or Detail F22

Face mount (IJF) joist hanger

meyJOIST long cantilever support

Detail F17

Wall Bottom Plate

Flooring

meyJOIST bearing to be as per supporting floor only

Splice between joists using same material

Loadbearing wall

Rimboard (17mm) or boundary joist

1 framing nail per flange. Length to have 30mm meyJOIST penetration

Rimboard or Boundary Joist with meyJOIST

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



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