

FLOOR INSTALLATION DETAILS

J1 NAILING TO PLATE

1 - 2-1/2" 8d common or 10d box nail on each side

1-1/2" minimum bearing length required

J2 SINGLE RIM JOIST

J Rim Joist 2 - 8d common nails in both top and bottom chords

Bearing Wall or Foundation

J Rim Joist maximum vertical load transfer of 2000 plf

J3 PARALLEL RIM JOIST & CROSS BRIDGING

Double J Rim Joist toe nails in outside joist bottom chord to plate (spacing as per code) maximum vertical load transfer of 4000 plf

appropriate o/c cross bridging

exterior bearing wall

J Joist appropriate o/c spacing

Any appropriately installed cross bridging will create midspan

J4 CONCENTRATED LOAD TRANSFER

2" x " Multi-ply stud from above

2" x " Load Transfer Blocking

Post loads from above must be transferred to the bearing with vertically oriented, conventional solid blocking if load exceeds 2000 plf limit.

J5 FACE MOUNT HANGER

Backing is required between joists for nailing of face mount hangers. (No backing is required for LVL).

J Joist or LVL beam

Filler block 2 plys of 1/2" thick OSB or plywood.

Backer block 1 ply of 1/2" thick OSB or plywood.

Continuous filler block

Backer block

J6 TOP MOUNT HANGER

Fastening of J-Joist refer to J11 or J12 Double Joist Fastening.

J-Joist or LVL beam.

Approved top mount hanger.

J7 NON-LOAD BEARING WALL (PARALLEL TO JOIST)

Non-Loadbearing Wall

Sheathing

2X4 blocking spaced @ 24" o/c (max.)

J8 OFF-SET LOAD BEARING WALL

Solid J blocking is required if stud spacing on the wall above does not match the joist spacing.

Joists must be designed in order to carry loads from above.

J9 CANTILEVER

Cantilever Rim Enclosure

J blocking continuous or as per building code.

Maximum length of cantilever

Bearing

J10 CENTER BEARING

Minimum 3" joist overlap. Minimum 3" sheathing overlap.

Wall - See Load Tables in J Installation Guide (page 19).

J blocking continuous or as per building code.

Wall or Beam

For overlapped joists tie the top and bottom flanges together, nailing from one side (1x10d).

J11 MULTIPLE JOIST FASTENING (TOP LOAD)

Exceeding 3 ply built-up members is not permitted.

12d common nails @ 24" o/c driven from alternate sides.

12d common nails @ 24" o/c driven from one side.

Double Joists

J12 MULTIPLE JOIST FASTENING (SIDE LOAD)

Exceeding 3 ply built-up members is not permitted.

12d common nails from alternate sides as per Table "A".

12d common nails from one side as per Table "A".

TABLE A

Nail Spacing	Allowable Side Loads	Nail Spacing	Allowable Side Loads
16" o/c	120 PLF	12" o/c	180 PLF
8" o/c	240 PLF	6" o/c	320 PLF



CANTILEVER DETAILS

N J SERIES

Cantilever Rim Enclosure

J blocking continuous or as per building code.

Maximum length of cantilever

Bearing

C J SERIES

J Joist 60" long attached with two rows of 10d common nails @ 6" o/c to one side of the joist.

2" MAX

60"

UPLIFT CONNECTOR

2-6d nails top & bottom chords.

2-6d nails in top beam.

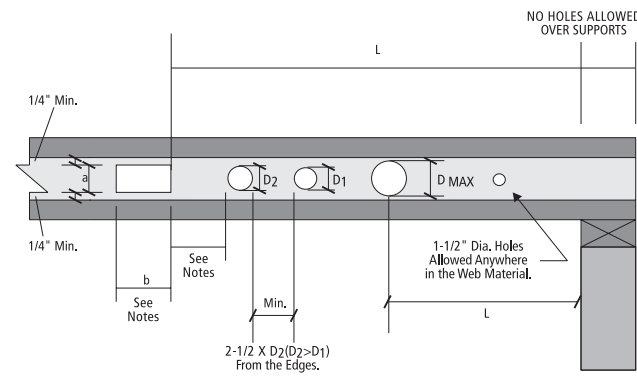
Roof Truss Span

2" MAX

NOTES

- Cantilever reinforcement requires a 1-1/5" x 22" gauge framing straps as shown.
- A minimum interior bearing length of 3-1/5" is required.
- Details require a framing strap at the interior bearing.
- I-Joist blocking continuous or as per building code.

*To determine which cantilever detail is required, refer to the look up tables on pg.11 of the Installation Guide.



WEB HOLE SPECIFICATIONS

- The distance between the edge of the nearest support and the centerline of a round hole shall not be less than that shown in either the J or H/U Series tables. The distance between the edge of the nearest support and the edge of a rectangular/square hole shall not be less than that shown in either the J or H/U series tables.
- Tables are based upon a maximum uniform load of 40 psf live and 25 psf dead.
- Tables can be used for joist spacing of 24" or less.
- The maximum size round or rectangular hole permitted to be installed in the webs shall leave a minimum of 1/4" of web material between the top and bottom of the hole and the adjacent flange.
- The maximum length of a rectangular hole, measured parallel to flanges, shall be 1-1/2 times the hole height.
- A 1-1/2" diameter round hole can be installed anywhere in the web except directly over a support.
- When installing multiple holes in the web, the spacing between edges of the holes must be as follows:
 - The spacing required between the edges of round holes must be 2-1/2 times the diameter of the largest hole.
 - The spacing required between the edges of rectangular holes must be 5 times the length of the largest hole.
 - The spacing between the edges of a round and rectangular hole must be 5 times the length of the largest hole or 5 times the diameter of the round hole, whichever is greater.
- Do not cut or nick flanges when cutting holes in the web.
- Whenever possible, installed holes shall be centered vertically in the web.
- Cutting a radius on the corner of a rectangular hole is recommended.

ALLOWABLE ROUND HOLE LOCATION FOR J SERIES

Joist Type	Joist Span (FT-IN.)	HOLE DIAMETER (INCHES)										
		2	2-1/2	3	3-1/2	3-1/4	4	4-1/2	5	5-1/2	6	6-3/8
J925	8-0	1-0	1-0	1-0	1-0	1-0						
	10-0	1-0	1-0	1-0	1-0	1-0						
	12-0	1-0	1-6	2-0	2-0	2-6						
	13-2	1-0	1-0	1-0	1-6	1-6						
	14-0	1-0	1-0	1-0	1-0	1-0						
J10	8-0	1-0	1-0	1-0	1-0	1-0	1-0					
	10-0	1-0	1-0	1-0	1-6	1-6	1-6					
	12-0	1-0	1-6	2-0	2-6	2-6	2-6					
	12-4	1-6	1-6	2-0	2-6	2-6	3-0					
	13-8	1-0	1-0	1-6	2-0	2-0	2-6					
J12	10-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	1-6	2-0	1-6
	12-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	1-6	2-0	2-6	3-0
	13-8	1-0	1-0	1-0	1-6	1-6	1-6	2-0	2-6	3-0	3-6	3-6
	14-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	1-6	2-0	2-6
	15-3	1-0	1-0	1-0	1-0	1-0	1-6	1-6	1-6	2-6	3-0	3-0

ALLOWABLE RECTANGULAR HOLE LOCATION FOR J SERIES

Joist Type	Joist Span (FT-IN.)	HOLE HEIGHT (INCHES)										
		2	2-1/2	3	3-1/2	3-1/4	4	4-1/2	5	5-1/2	6	6-3/8
J925	8-0	1-0	1-0	1-0	1-0	1-0						
	10-0	1-0	1-0	1-6	2-0	2-0						
	12-0	1-6	2-0	2-6	3-0	3-0						
	13-2	1-0	1-0	1-6	2-6	2-6						
	14-0	1-0	1-0	1-0	1-6	1-6						
J10	8-0	1-0	1-0	1-0	1-6	1-6	1-6					
	10-0	1-6	1-6	2-0	2-6	2-6	2-6					
	12-0	2-6	2-6	3-0	3-6	3-6	3-6					
	12-4	2-6	3-0	3-0	3-6	3-6	3-6					
	13-8	2-0	2-6	3-0	3-0	3-6	3-6					
J12	10-0	1-0	1-6	2-0	2-6	2-6	2-6	2-0	2-6	2-6	3-0	3-0
	12-0	1-0	1-6	2-6	3-0	3-6	3-6	3-0	3-6	3-6	4-0	4-0
	13-8	2-0	2-6	2-6	3-0	3-6	3-6	4-0	4-0	4-6	5-0	5-0
	14-0	1-0	1-0	1-0	2-0	2-0	2-6	2-6	3-0	3-6	4-0	4-6
	15-3	1-0	2-0	2-6	3-0	3-0	3-6	3-6	4-0	4-6	5-0	5-0

INSTALLATION PRECAUTIONS Applies to all I-Joist Series - J & H/U

DO NOT...

Drill any holes over a support.

Cut or notch top or bottom chords.

Split the flange. Ensure proper toe nailing.

Bevel cut the joist past the inside face of wall.

Use conventional lumber for structural rim or band board.

Install joists on an angle.

Use conventional lumber combined with joists as built-up.

Prolong exposure to the elements, (rain, snow, sun) either on site or at the lumber yard.



U1 NAILING TO PLATE

U2 SINGLE RIM JOIST

U3 PARALLEL RIM JOIST & CROSS BRIDGING

U4 CONCENTRATED LOAD TRANSFER

U5 FACE MOUNT HANGER

U6 TOP MOUNT HANGER

U7 NON-LOAD PARALLEL WALL

U8 OFF-SET LOAD BEARING WALL

U9 CANTILEVER

U10 OVERLAPPED AT BEARING

U10A CENTER BEARING SQUASH BLOCKS

U10C CENTER BEARING BLOCKING

U11 MULTIPLE JOIST FASTENING

BACKER AND FILLER BLOCK REQUIREMENTS

Joist Type	Backer Block Thickness	Dimension Depth	Filler Block Thickness	Dimension Depth
J10	1/2"	4-3/8"	1-1/8"	4-3/8"
J12	1/2"	6-3/4"	1-1/8"	6-3/4"
H10	1"	6-3/8"	2-1/8"	5-1/2"
H12	1"	8-3/4"	2-1/8"	7-1/4"
H14	1"	10-7/8"	2-1/8"	9-1/4"
H16	1"	12-7/8"	2-1/8"	11-1/4"
U10	1-1/2"	6-3/8"	3"	5-1/2"
U12	1-1/2"	8-3/4"	3"	7-1/4"
U14	1-1/2"	10-7/8"	3"	9-1/4"
U16	1-1/2"	12-7/8"	3"	11-1/4"

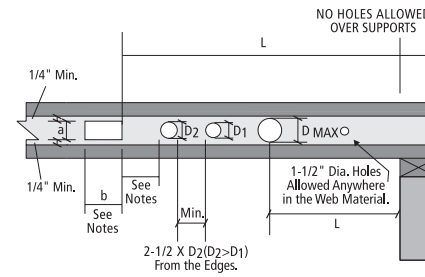
CANTILEVER DETAILS

A H SERIES

B H SERIES

C H SERIES

UPLIFT CONNECTOR



WEB HOLE SPECIFICATIONS

- The distance between the edge of the nearest support and the centerline of a round hole shall not be less than that shown in either the J or H/U Series tables. The distance between the edge of the nearest support and the edge of a rectangular/square hole shall not be less than that shown in either the J or H/U series tables.
- Tables are based upon a maximum uniform load of 40 psf live and 25 psf dead.
- Tables can be used for joist spacing of 24" or less.
- The maximum size round or rectangular hole permitted to be installed in the webs shall leave a minimum of 1/4" of web material between the top and bottom of the hole and the adjacent flange.
- The maximum length of a rectangular hole, measured parallel to flanges, shall be 1-1/2 times the hole height.
- A 1-1/2" diameter round hole can be installed anywhere in the web except directly over a support.
- When installing multiple holes in the web, the spacing between edges of the holes must be as follows:
 - The spacing required between the edges of round holes must be 2-1/2 times the diameter of the largest hole.
 - The spacing required between the edges of rectangular holes must be 5 times the length of the largest hole.
 - The spacing between the edges of a round and rectangular hole must be 5 times the diameter of the round hole, whichever is greater.
- Do not cut or nick flanges when cutting holes in the web.
- Whenever possible, installed holes shall be centered vertically in the web.
- Cutting a radius on the corner of a rectangular hole is recommended.

ALLOWABLE ROUND HOLE LOCATION FOR H/U SERIES

Joist Type	Joist Span (FT-IN.)	HOLE HEIGHT (INCHES)										
		2	4	5	6	7	8-3/8	9	10-1/2	11	12-1/2	14
(minimum distance from the inside edge of the support to the centre of the hole (FT.-IN.))												
H/U10	10-0	1-0	1-0	1-6	2-0							
	12-0	1-0	1-6	2-6	3-0							
	14-0	1-0	1-6	2-0	3-0							
	16-0	1-0	1-0	2-0	3-0							
H/U12	6-0	1-0	1-0	1-0	1-0	1-0	1-0					
	8-0	1-0	1-0	1-0	1-0	1-0	1-0					
	10-0	1-0	1-0	1-0	1-0	1-0	1-6					
	12-0	1-0	1-0	1-6	2-0	2-6	3-0					
	14-0	1-0	2-0	2-6	3-0	3-6	4-0					
	16-0	1-0	1-6	2-0	3-0	3-6	4-0					
	18-0	1-0	1-0	1-6	2-6	3-6	4-0					
20-0	1-0	1-0	1-0	1-0	1-0	2-6						
H/U14	12-0	1-0	1-0	1-0	1-0	1-0	2-6	4-0				
	14-0	1-0	1-0	1-0	1-0	1-6	3-0	5-0				
	16-0	1-0	1-0	1-0	1-6	2-6	4-0	6-0				
	18-0	1-0	1-0	2-0	2-6	3-6	5-0	7-0				
	20-0	1-0	1-0	1-0	2-0	3-0	4-6	6-6				
	22-0	1-0	1-0	1-0	1-0	1-0	1-6	3-0	6-0			
H/U16	14-0	1-0	1-0	1-0	1-0	1-6	2-6	3-0	4-0	4-0	5-0	
	16-0	1-0	1-0	1-0	2-0	2-6	3-6	4-0	5-0	5-0	6-0	
	18-0	1-0	1-0	2-0	2-0	3-0	3-6	4-6	5-0	6-0	7-0	
	20-0	1-0	2-0	3-0	4-0	4-6	5-6	6-0	7-0	7-0	8-0	
	22-0	1-0	1-0	2-0	3-0	4-0	5-6	6-0	7-0	7-0	8-0	
	24-0	1-0	1-0	1-0	2-6	3-6	5-0	5-6	7-0	7-0	8-0	
	26-0	1-0	1-0	1-0	1-0	1-6	3-0	4-0	5-6	6-0	7-6	
U18	12-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	2-0	3-0
	14-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	1-6	2-0	3-0
	16-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	1-6	2-6	3-0	4-0
	18-0	1-0	1-0	1-0	1-0	1-0	2-0	2-6	3-6	4-0	5-0	6-0
	20-0	1-0	1-0	1-0	1-6	2-0	3-0	3-6	4-6	5-0	6-0	7-0
	22-0	1-0	1-0	1-6	2-6	3-0	4-0	4-6	5-6	6-0	7-0	8-0
	24-0	1-0	2-0	2-6	3-6	4-0	5-0	5-6	6-6	7-0	8-0	9-0
	26-0	1-0	1-0	1-0	2-0	3-0	4-0	4-6	6-0	6-6	7-6	9-0
	28-0	1-0	1-0	1-0	1-0	1-6	3-0	3-6	5-6	6-0	7-6	9-0
	30-0	1-0	1-0	1-0	1-0	1-0	1-0	1-0	3-0	3-6	6-0	8-0
	32-0	1-0	1-0	1-0	1-0	1-0	1-0	2-0	4-0	4-6	7-0	10-0

ALLOWABLE RECTANGULAR HOLE LOCATION FOR H/U SERIES

Joist Type	Joist Span (FT-IN.)	HOLE HEIGHT (INCHES)										
		2	4	5	6	7	8-3/8	9	10-1/2	11	12-1/2	14
(minimum distance from the inside edge of the support to the centre of the hole (FT.-IN.))												
H/U10	10-0	1-0	2-0	2-6	3-6							
	12-0	1-0	3-0	3-6	4-6							
	14-0	1-0	3-0	4-0	4-6							
	16-0	1-0	3-0	4-0	5-0							
H/U12	6-0	1-0	1-0	1-0	1-0	1-6	2-0					
	8-0	1-0	1-0	2-0	2-0	2-6	3-0					
	10-0	1-0	1-0	3-0	3-0	3-6	4-0					
	12-0	1-0	2-0	4-0	4-0	4-6	5-0					
	14-0	1-0	3-0	5-0	5-0	5-6	6-0					
	16-0	1-0	3-0	5-0	5-0	6-0	6-0					
	18-0	1-0	3-0	3-0	5-0	6-0	7-0					
20-0	1-0	1-6	4-0	4-0	4-6	6-0						
H/U14	12-0	1-0	1-0	1-6	2-6	3-0	4-0	4-6	5-0			
	14-0	1-0	1-6	2-6	3-6	4-0	5-0	5-6	6-0			
	16-0	1-0	2-6	3-6	4-6	5-0	6-0	6-6	7-0			
	18-0	1-6	3-6	4-6	5-6	6-0	7-0	7-6	8-0			
	20-0	1-0	3-0	4-0	5-6	6-6	7-6	7-6	8-6			
	22-0	1-0	1-0	1-0	3-0	4-6	6-0	6-6	8-0			
24-0	1-0	1-0	2-0	4-0	5-6	7-0	7-6	9-0				
H/U16	14-0	1-0	1-0	2-0	3-0	4-0	5-0	5-6	6-0	6-0	6-6	
	16-0	1-0	2-0	3-0	4-0	5-0	6-0	6-6	7-0	7-0	7-6	
	18-0	1-0	3-0	4-0	5-0	6-0	7-0	7-6	8-0	8-0	8-6	
	20-0	1-6	4-0	5-0	6-0	7-0	8-0	8-6	9-0	9-0	9-6	
	22-0	1-0	3-6	4-6	6-0	7-0	8-6	8-6	9-0	9-6	10-0	
	24-0	1-0	2-6	4-0	5-6	7-0	8-6	9-0	10-0	10-0	10-6	
	26-0	1-0	1-0	2-0	4-6	6-0	8-0	8-6	10-0	10-0	10-6	
U18	12-0	1-0	1-0	1-0	1-0	1-6	2-6	3-0	3-6	4-0	4-6	4-6
	14-0	1-0	1-0	1-0	1-6	2-6	3-6	4-0	4-6	5-0	5-6	5-6
	16-0	1-0	1-0	1-0	2-6	3-6	4-6	5-0	5-6	6-0	6-6	6-6
	18-0	1-0	1-6	2-0	3-6	4-6	5-6	6-0	6-6	7-0	7-6	7-6
	20-0	1-0	2-6	3-0	4-6	5-6	6-6	7-0	7-6	8-0	8-6	8-6
	22-0	1-0	3-6	4-6	5-6	6-6	7-6	8-0	8-6	9-0	9-6	9-6
	24-0	2-0	4-6	5-6	6-6	7-6	8-6	9-0	9-6	10-0	10-6	10-6
	26-0	1-0	3-6	4-0	6-0	7-0	8-0	8-6	9-6	10-0	10-6	11-0
	28-0	1-0	2-0	3-0	5-0	6-6	8-0	8-6	10-0	10-0	11-0	11-6
	30-0	1-0	1-0	1-0	3-0	4-6	6-6	7-6	9-0	9-6	10-6	11-0
	32-0	1-0	1-0	2-0	4-0	5-6	7-6	8-6	10-0	10-6	11-6	12-0

* To determine which cantilever detail is required, refer to the look up tables on page 11 & 12 of the H/U Installation Guide.