



# FLOOR INSTALLATION DETAILS

The **NASCOR JOISTS**  
Strong Quiet  
Type

# "NJH" SERIES



## CANADA SPAN TABLES

NJH10	Simple Span Table (40 LIVE & 10 DEAD)			
	12" o/c	16" o/c	19.2" o/c	24" o/c
	L/480	L/480	L/480	L/480
5/8" Subfloor - Nailed	14'-10"	13'-11"	13'-4"	N/A
5/8" Subfloor - Nailed Glued	15'-11"	15'-1"	14'-7"	N/A
3/4" Subfloor - Nailed	15'-6"	14'-6"	13'-11"	13'-3"
3/4" Subfloor - Nailed Glued	16'-9"	15'-10"	14'-11"	13'-10"

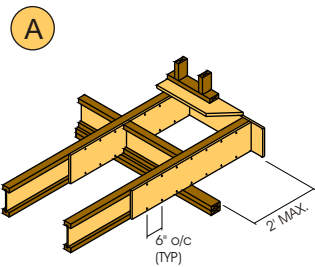
NJH12	Simple Span Table (40 LIVE & 10 DEAD)			
	12" o/c	16" o/c	19.2" o/c	24" o/c
	L/480	L/480	L/480	L/480
5/8" Subfloor - Nailed	16'-11"	15'-10"	15'-2"	N/A
5/8" Subfloor - Nailed Glued	18'-0"	17'-0"	16'-5"	N/A
3/4" Subfloor - Nailed	17'-8"	16'-6"	15'-10"	15'-1"
3/4" Subfloor - Nailed Glued	19'-2"	17'-10"	17'-3"	16'-6"

### NOTES ON SPAN CHARTS:

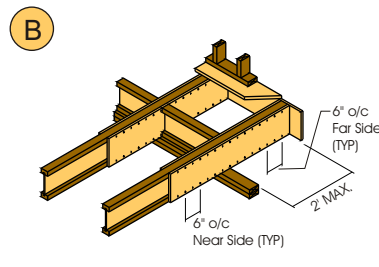
- 1) Permissible spans are based upon the requirements of CSA 086.1-M94 "Engineering Design in Wood (Limit States Design)" and in accordance with ASTM Standard D5055, Standard Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood Joists."
- 2) All spans are in accordance with the vibration criteria outlined by the Canadian Construction Material Centre (CCMC) and the 1995 NBCC guidelines.
- 3) Spans are based upon simply supported span conditions and lengths are based on clear span, taken from the inside of the supports..
- 4) Spans are based on uniform loading conditions using 40 psf Live Load and 10 psf Dead Load, for other loading conditions not shown above, please use the Nascor Software, or contact Nascor.

- 5) Total Load deflection limited to L/240
- 6) Minimum bearing length required is 1-1/2"
- 7) A 7% repetitive member increase has been applied to the spans
- 8) If x-bridging, blocking, or 1x4 strapping is used: 1 row at mid span is required for spans less than 16 ft, 1 row at mid-span and 2 rows at 1/3 span is required for spans over 16 ft.
- 9) Blocking is an I-joist stub of the same depth as the adjacent joist
- 10) For continuous span applications contact your Nascor Engineered Wood Products manufacturer or distributor.

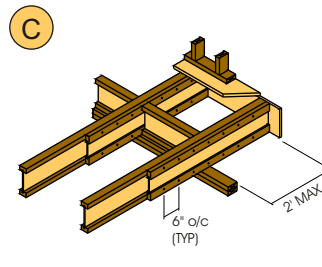
## CANTILEVER CHART DETAILS (REFER TO YOUR JOIST LAYOUT FOR THE APPROPRIATE CANTILEVER DETAIL BELOW)



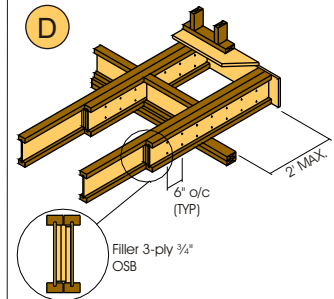
3/4" OSB/Plywood min. 48" long attached with two rows of 8d common or 10d box nails @ 6" o/c to one side of the joist. OSB/Plywood must be cut along the 8' length.



3/4" OSB/Plywood min. 48" long attached with two rows of 8d common or 10d box nails @ 6" o/c to both sides of the joist OSB/Plywood must be cut along the 8' length.

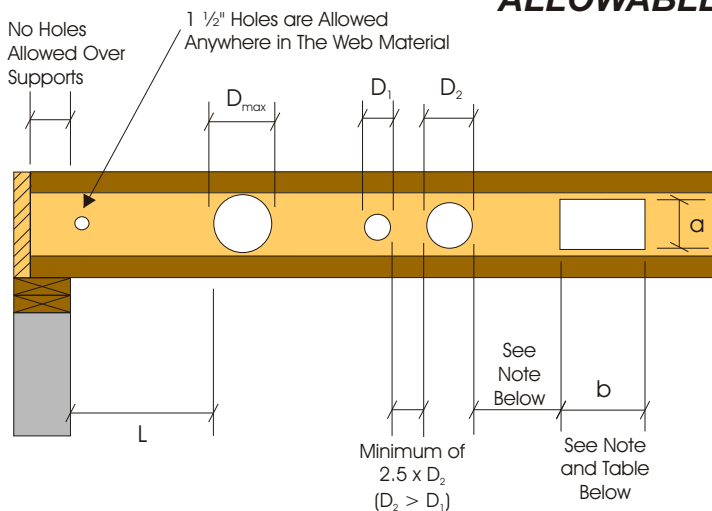


NJ #2 SPF min. 48" long attached with two rows of 8d common or 10d box nails @ 6" o/c to one side of the joist. Cannot use for NJH 14 & 16.



NJH #2 SPF min. 48" long attached to one side of the joist with 3 ply 3/4" OSB fillers. Nail with 2 rows of 8d common nails @ 6" o/c as shown above.

## ALLOWABLE HOLE GUIDE



MAX. HOLE HEIGHT	2"	3"	4"	5"	6"	7"	8"
MINIMUM LENGTH - L	1'-0"	2'-6"	3'-5"	4'-4"	5'-3"	6'-3"	8'-3"

### NOTES ON HOLE CHARTS

Applies to UDL, maximum 40LL 15DL (For all other cases contact your Nascor representative.)

#### A. MULTIPLE HOLES

- The spacing required between the edges of round holes must be a minimum of 2.5 times the diameter of the largest hole.
- The spacing required between the edges of rectangular openings must be a minimum of 5 times the length of the largest rectangular opening.
- The spacing required between the edges of a round hole and a rectangular opening must be 5 times the length of the largest opening/hole or 5 times the diameter of the round hole, whichever is greater.

#### B. ROUND HOLES

- A 1/2" diameter hole can be drilled anywhere in the web except directly over a support.

#### C. RECTANGULAR HOLE

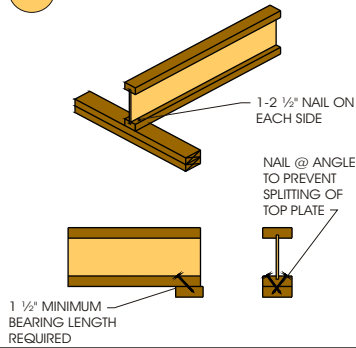
- Cutting a radius on the corners of a rectangular opening is recommended.
- The length of a rectangular opening, parallel to the flanges, must be less than 1.5 times the height (see table)

#### D. GENERAL

- No holes are allowed over a support.
- Do not cut or nick flanges when cutting holes in the web.
- Minimum distance of 1/4" is required between the edge of a hole and flange.
- Valid for simply supported spans where loads are uniformly distributed. Otherwise, see Nascor for details.

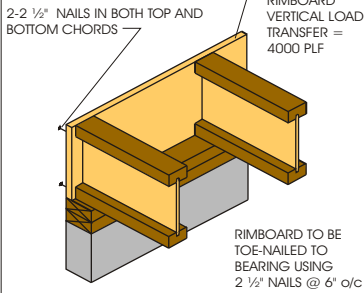
JOIST TYPE	NJH10	NJH12
MAX. RECTANGULAR HOLE (HEIGHT a)	6"	8-3/8"
MAX. RECTANGULAR HOLE (WIDTH b)	9"	12-1/2"
MAX. ROUND HOLE DIAMETER	6"	8-3/8"

**U1 NAILING TO PLATE**



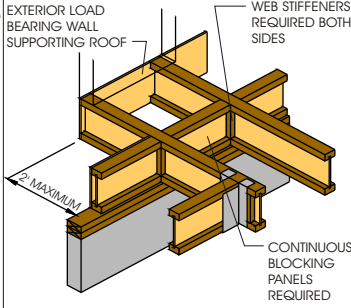
1 1/2" MINIMUM BEARING LENGTH REQUIRED

**U2 SINGLE RIM BOARD**



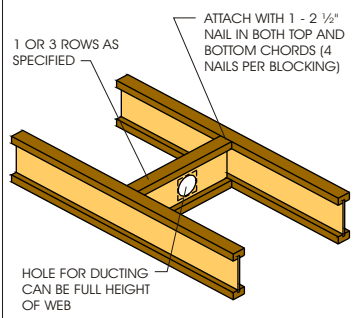
Check with local building codes for any variance.

**U7 UNREINFORCED CANTILEVER (LOAD BEARING)**



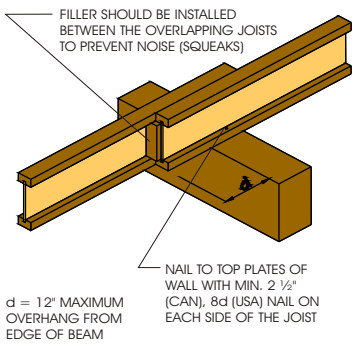
Refer to cantilever load charts for cantilever loading values.

**U8 CONTINUOUS BLOCKING FOR VIBRATION SPANS**



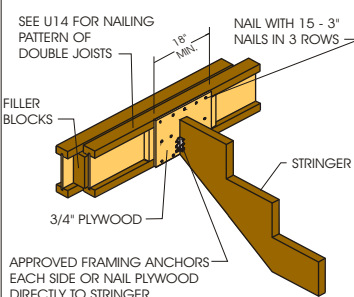
HOLE FOR DUCTING CAN BE FULL HEIGHT OF WEB

**U9 OVERLAPPED JOIST AT BEAM/STUD WALL**



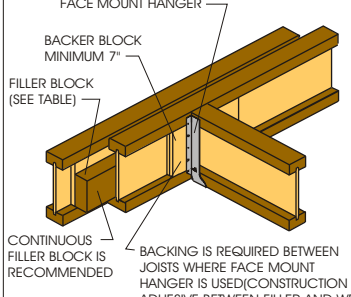
d = 12" MAXIMUM OVERHANG FROM EDGE OF BEAM

**U10 STAIR STRINGER CONNECTION**



Floor sheathing should be nailed/screwed @ 6" o/c within 24" of stair stringer.

**U11 SINGLE FACE MOUNT HANGER**



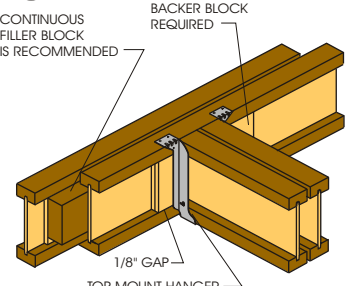
Construction adhesive is recommended in between joists to prevent squeaking.

**U11 A FILLER AND BACKER BLOCK TABLE**

JOIST TYPE	NJH10	NJH12	NJH14	NJH16
BACKER BLOCK THICKNESS	1"	1"	1"	1"
FILLER BLOCK THICKNESS	2x6 + 5/8"	2x8 + 5/8"	2x8 + 2x4 + 5/8"	2x10 + 2x4 + 5/8"
BACKER BLOCK DEPTH	6-3/8"	8-3/4"	10-7/8"	12-7/8"

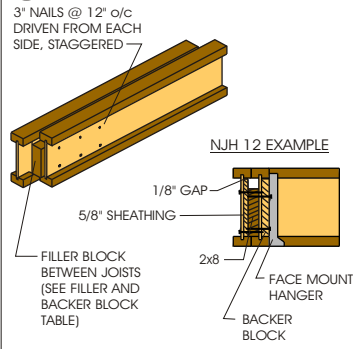
**NOTES:**  
 - Web stiffener not required for hangers that restrain the top flange.  
 - Backer and filler blocks should be installed with a 1/8" gap at the top for face mount hangers and a 1/8" gap at the bottom for top mount hangers.  
 - Filler blocks to be solid lumber and 5/8" plywood, or OSB.  
 - FILLER BLOCK THICKNESS can also be 2 - pieces of 1" OSB 6-3/8" Tall for NJH10, 8-3/4" Tall for NJH12, 10-7/8" Tall for NJH14, and 12-7/8" Tall for NJH16

**U13 TOP MOUNT HANGER**



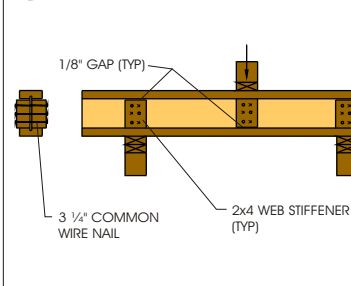
Construction adhesive is recommended in between joists to prevent squeaking. For lamination of joists, see joist fastening detail U14.

**U14 DOUBLE JOIST FASTENING**



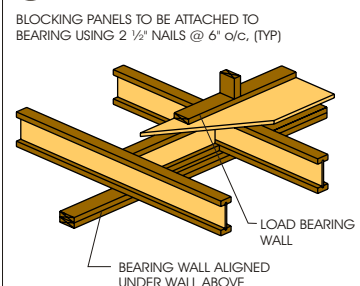
Filler block between joists (see FILLER AND BACKER BLOCK TABLE)

**U19 WEB STIFFENER DETAILS**



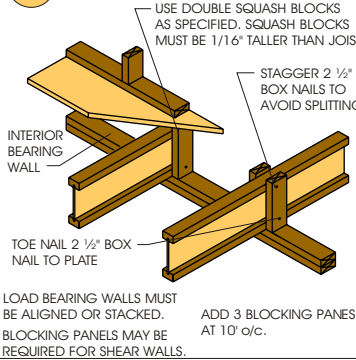
Stiffener is required at point loads. Bearing stiffeners may be required at end bearing applications.

**U21 BLOCKING AT INTERIOR SUPPORT**



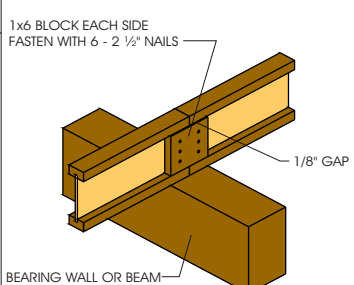
VERTICAL LOAD BEARING CAPACITY OF BLOCKING  
 NJH10=2000 PLF, NJH12=1500 PLF, NJH14=1200 PLF  
 NJH16=1100 PLF

**U22 SQUASH BLOCKS**



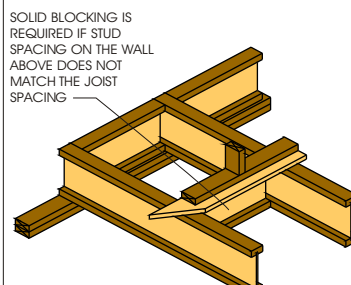
LOAD BEARING WALLS MUST BE ALIGNED OR STACKED. BLOCKING PANELS MAY BE REQUIRED FOR SHEAR WALLS. ADD 3 BLOCKING PANES AT 10" o/c.

**U24 JOIST BUTTING OVER A BEAM OR WALL**



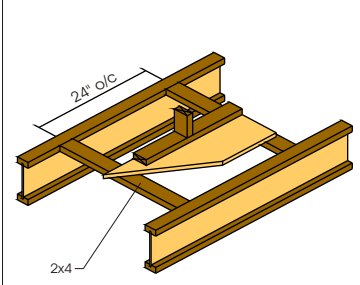
Depending on joist bearing load, studs of support wall may have to align with joist. Joist blocking between joists @ bearing may be required, check local building codes.

**U25 OFF-SET BEARING WALL**

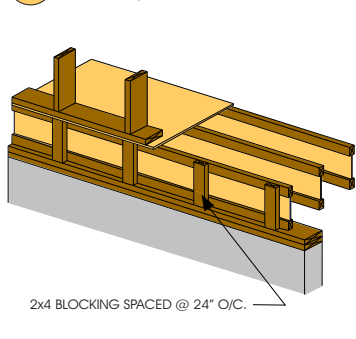


Joists must be designed in order to carry upper floor walls that are offset from the walls below.

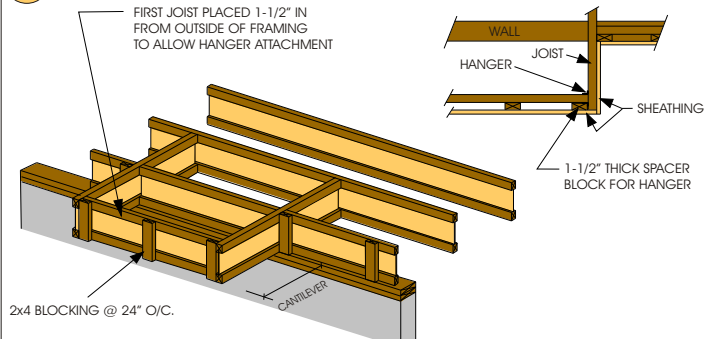
**U26 NON-LOAD BEARING WALL PARALLEL TO JOISTS**



**TYP. JOIST PARALLEL TO EXTERIOR BEARING WALL**



**TYP. CANTILEVER PERPENDICULAR TO JOISTS**



**DO NOT...**

