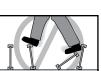




SAFETY AND CONSTRUCTION PRECAUTIONS



Do not walk on I-joists until fully fastened and braced, or serious inju-



Never stack building materials over unsheathed I-joists. Once sheathed, do not over-stress I-joist with concentrated loads from building materials.

I-joists are not stable until completely installed, and will not carry any load until Avoid Accidents by Following these Important Guidelines

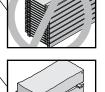
- 1. Brace and nail each I-joist as it is installed, using hangers, blocking panels, rim board, and/or cross-bridging at joist ends. When I-joists are applied continuous over interior supports and a load-bearing wall is planned at that location, blocking will be required at the interior support
- 2. When the building is completed, the floor sheathing will provide lateral support for the top flanges of the I-joists. Until this sheathing is applied, temporary bracing, often called struts, or temporary sheathing must be applied to prevent I-joist rollover or buckling.
- Temporary bracing or struts must be 1x4 inch minimum, at least 8 feet long and spaced no more than 8 feet on centre, and must be secured with a minimum of two 2-1/2" nails fastened to the top surface of each I-joist. Nail the bracing to a lateral restraint at the end of each bay. Lap ends of adjoining bracing over at least two I-joists.
- Or, sheathing (temporary or permanent) can be nailed to the top flange of the first 4 feet of I-joists at the end of the bay.
- 3. For cantilevered I-joists, brace top and bottom flanges, and brace ends with closure panels, rim board, or cross-bridging.
- 4. Install and fully nail permanent sheathing to each I-joist before placing loads on the floor system. Then, stack building materials over beams or walls only.
- 5. Never install a damaged I-joist.

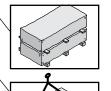
Improper storage or installation, failure to follow applicable building codes, failure to follow span ratings for Nordic I-joists, failure to follow allowable hole sizes and locations, or failure to use web stiffeners when required can result in serious accidents. Follow these installation guidelines carefully.

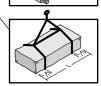
STORAGE AND HANDLING GUIDELINES

- 1. Bundle wrap can be slippery when wet. Avoid walking on wrapped bundles.
- 2. Store, stack, and handle I-joists vertically and level only. _
- 3. Always stack and handle I-joists in the upright position only.
- 4. Do not store I-joists in direct contact with the ground.
- 5. Protect I-joists from weather, and use spacers to separate bundles. –
- 6. Bundled units should be kept intact until time of installation.
- 7. When handling I-joists with a crane on the job site, take a few simple precautions to prevent damage to the I-joists and injury to your work crew.
- Pick I-joists in bundles as shipped by the supplier.
- Orient the bundles so that the webs of the I-joists are vertical.
- Pick the bundles at the 5th points, using a spreader bar if necessary
- 8. Do not handle I-joists in a horizontal orientation.
- 9. NEVER USE OR TRY TO REPAIR A DAMAGED I-JOIST.









MAXIMUM ROOF SPANS

MAXIMUM ROOF SPANS FOR NORDIC I-JOISTS Snow Load = 20 psf, Dead Load = 15 psf

Ш	1.2.1		Slope of 1/4:12 to 4:12			Slope of	ot >4:12 t	0 8:12	Slope of >8:12 to 12:12			
ı		Joist Series	On Ce	entre Spo	ıcing	On C	entre Spo	icing	On Centre Spacing			
	Joist Depth 9-1/2" 11-7/8" 14"	Jerres	12"	16"	24"	12"	16"	24"	12"	16"	24"	
	9-1/2"	NI-20 NI-40x NI-60 NI-70 NI-80	20'-4" 23'-4" 23'-9" 26'-1" 26'-7"	18'-5" 21'-1" 21'-6" 23'-7" 24'-1"	16'-0" 18'-4" 18'-8" 20'-5" 20'-11"	19'-1" 21'-10" 22'-4" 24'-5" 24'-11"	17'-3" 19'-10" 20'-2" 22'-1" 22'-7"	15'-0" 17'-2" 17'-6" 19'-2" 19'-7"	17'-7" 20'-2" 20'-7" 22'-6" 23'-0"	15'-11" 18'-3" 18'-7" 20'-5" 20'-10"	13'-10" 15'-10" 16'-2" 17'-9" 18'-1"	
	11-7/8"	NI-20 NI-40x NI-60 NI-70 NI-80 NI-90 NI-90x	24'-7" 27'-11" 28'-6" 31'-1" 31'-9" 32'-9" 33'-0"	22'-3" 25'-3" 25'-10" 28'-2" 28'-9" 29'-8" 29'-10"	19'-4" 21'-11" 22'-5" 24'-5" 24'-11" 25'-9" 25'-11"	23'-0" 26'-2" 26'-9" 29'-2" 29'-9" 30'-9" 31'-0"	20'-10" 23'-8" 24'-3" 26'-5" 27'-0" 27'-10" 28'-0"	18'-2" 20'-7" 21'-1" 23'-0" 23'-5" 24'-2" 24'-4"	21'-3" 24'-1" 24'-8" 26'-11" 27'-5" 28'-4" 28'-7"	19'-3" 21'-10" 22'-4" 24'-4" 24'-10" 25'-8" 25'-10"	16'-9" 19'-0" 19'-5" 21'-2" 21'-7" 22'-4" 22'-6"	
	14"	NI-40x NI-60 NI-70 NI-80 NI-90 NI-90x	31'-8" 32'-6" 35'-4" 36'-1" 37'-2" 37'-8"	28'-8" 29'-5" 32'-0" 32'-8" 33'-8" 34'-1"	24'-4" 25'-7" 27'-9" 28'-5" 29'-3" 29'-7"	29'-9" 30'-6" 33'-1" 33'-11" 34'-11" 35'-4"	26'-11" 27'-7" 30'-0" 30'-8" 31'-7" 32'-0"	23'-5" 24'-0" 26'-1" 26'-8" 27'-5" 27'-10"	27'-5" 28'-1" 30'-6" 31'-3" 32'-2" 32'-7"	24'-10" 25'-6" 27'-8" 28'-4" 29'-2" 29'-6"	21'-7" 22'-2" 24'-1" 24'-7" 25'-4" 25'-8"	
	16"	NI-60 NI-70 NI-80 NI-90 NI-90x	36'-2" 39'-1" 40'-1" 41'-2" 41'-10"	32'-9" 35'-5" 36'-3" 37'-4" 37'-11"	28'-5" 30'-9" 31'-6" 32'-5" 32'-11"	33'-11" 36'-8" 37'-7" 38'-8" 39'-3"	30'-8" 33'-3" 34'-1" 35'-0" 35'-7"	26'-8" 28'-11" 29'-7" 30'-5" 30'-11"	31'-3" 33'-10" 34'-8" 35'-8" 36'-2"	28'-4" 30'-8" 31'-5" 32'-3" 32'-10"	24'-7" 26'-8" 27'-4" 28'-1" 28'-6"	

2 Clause of \$ 4.12 to 0.12 Clause of \$ 0.12 to 12

MAXIMUM ROOF SPANS FOR NORDIC I-JOISTS

	Joist Series	Slope of 1/4:12 to 4:12 On Centre Spacing			Slope of >4:12 to 8:12 On Centre Spacing			Slope of >8:12 to 12:12		
Joist Depth								On Centre Spacing		
Берііі	Jerres	12"	16"	24"	12"	16"	24"	12"	16"	24"
9-1/2"	NI-20 NI-40x NI-60 NI-70 NI-80	18'-9" 21'-6" 21'-11" 24'-0" 24'-6"	17'-0" 19'-5" 19'-10" 21'-8" 22'-2"	14'-9" 16'-10" 17'-2" 18'-10" 19'-2"	17'-8" 20'-3" 20'-8" 22'-7" 23'-1"	16'-0" 18'-4" 18'-8" 20'-6" 20'-11"	13'-11" 15'-11" 16'-3" 17'-9" 18'-2"	16'-5" 18'-9" 19'-2" 21'-0" 21'-5"	14'-10" 17'-0" 17'-4" 19'-0" 19'-5"	12'-10" 14'-9" 15'-0" 16'-6" 16'-10"
11-7/8"	NI-20 NI-40x NI-60 NI-70 NI-80 NI-90 NI-90x	22'-8" 25'-9" 26'-3" 28'-8" 29'-3" 30'-2" 30'-5"	20'-6" 23'-3" 23'-9" 25'-11" 26'-6" 27'-4" 27'-6"	17'-10" 19'-5" 20'-8" 22'-6" 22'-11" 23'-8" 23'-10"	21'-4" 24'-3" 24'-9" 27'-0" 27'-7" 28'-5" 28'-8"	19'-4" 21'-11" 22'-5" 24'-6" 25'-0" 25'-9" 25'-11"	16'-9" 19'-0" 19'-6" 21'-3" 21'-8" 22'-4" 22'-6"	19'-9" 22'-6" 23'-0" 25'-1" 25'-7" 26'-5" 26'-7"	17'-11" 20'-4" 20'-10" 22'-8" 23'-2" 23'-11" 24'-1"	15'-7" 17'-8" 18'-1" 19'-8" 20'-1" 20'-9" 20'-11"
14"	NI-40x NI-60 NI-70 NI-80 NI-90 NI-90x	29'-2" 30'-0" 32'-7" 33'-3" 34'-3" 34'-8"	26'-2" 27'-2" 29'-5" 30'-1" 31'-0" 31'-5"	21'-4" 23'-6" 25'-7" 26'-2" 26'-11" 27'-3"	27'-6" 28'-3" 30'-8" 31'-5" 32'-4" 32'-9"	24'-11" 25'-7" 27'-9" 28'-5" 29'-3" 29'-7"	20'-11" 22'-2" 24'-1" 24'-8" 25'-5" 25'-8"	25'-6" 26'-2" 28'-5" 29'-1" 30'-0" 30'-4"	23'-1" 23'-9" 25'-9" 26'-4" 27'-2" 27'-6"	20'-1" 20'-7" 22'-5" 22'-11" 23'-7" 23'-10"
16"	NI-60 NI-70 NI-80 NI-90 NI-90x	33'-4" 36'-1" 36'-11" 38'-0" 38'-7"	30'-2" 32'-8" 33'-5" 34'-4" 34'-11"	26'-2" 28'-4" 29'-0" 29'-10" 30'-3"	31'-5" 34'-0" 34'-10" 35'-10" 36'-4"	28'-5" 30'-9" 31'-6" 32'-5" 32'-11"	24'-8" 26'-9" 27'-5" 28'-2" 28'-7"	29'-1" 31'-6" 32'-3" 33'-2" 33'-9"	26'-4" 28'-7" 29'-3" 30'-1" 30'-7"	22'-11" 24'-10" 25'-5" 26'-1" 26'-6"

MAXIMUM ROOF SPANS FOR NORDIC I-JOISTS

Snow Load = 40 psf, Dead Load = 15 psf

	Joist Series	Slope of 1/4:12 to 4:12 On Centre Spacing			Slope of >4:12 to 8:12 On Centre Spacing			Slope of >8:12 to 12:12 On Centre Spacing		
Joist Depth										
Берін	Jeries	12"	16"	24"	12"	16"	24"	12"	16"	24"
9-1/2"	NI-20 NI-40x NI-60 NI-70 NI-80	17'-4" 19'-10" 20'-2" 22'-2" 22'-7"	15'-8" 17'-11" 18'-3" 20'-0" 20'-5"	13'-7" 15'-4" 15'-10" 17'-4" 17'-8"	16'-7" 19'-0" 19'-5" 21'-3" 21'-8"	15'-0" 17'-2" 17'-6" 19'-2" 19'-7"	13'-0" 14'-11" 15'-2" 16'-8" 17'-0"	15'-5" 17'-8" 18'-0" 19'-9" 20'-2"	14'-0" 16'-0" 16'-4" 17'-11" 18'-3"	12'-1" 13'-11" 14'-2" 15'-6" 15'-10"
11-7/8"	NI-20 NI-40x NI-60 NI-70 NI-80 NI-90 NI-90x	20'-11" 23'-9" 24'-3" 26'-5" 27'-0" 27'-10" 28'-1"	18'-11" 21'-5" 21'-11" 23'-11" 24'-5" 25'-2" 25'-4"	16'-5" 17'-6" 19'-0" 20'-9" 21'-1" 21'-9" 21'-11"	20'-0" 22'-9" 23'-3" 25'-5" 25'-11" 26'-9" 26'-11"	18'-2" 20'-7" 21'-1" 23'-0" 23'-5" 24'-2" 24'-4"	15'-9" 17'-2" 18'-3" 19'-11" 20'-4" 20'-11"	18'-8" 21'-2" 21'-8" 23'-8" 24'-1" 24'-10" 25'-1"	16'-11" 19'-2" 19'-7" 21'-5" 21'-10" 22'-6" 22'-8"	14'-8" 16'-8" 17'-0" 18'-7" 18'-11" 19'-6" 19'-8"
14"	NI-40x NI-60 NI-70 NI-80 NI-90 NI-90x	26'-11" 27'-8" 30'-0" 30'-8" 31'-7" 32'-0"	23'-7" 25'-0" 27'-2" 27'-9" 28'-7" 28'-11"	19'-2" 21'-8" 23'-6" 24'-1" 24'-9" 25'-1"	25'-10" 26'-6" 28'-10" 29'-6" 30'-4" 30'-9"	23'-2" 24'-0" 26'-1" 26'-8" 27'-6" 27'-10"	18'-10" 20'-10" 22'-7" 23'-2" 23'-10" 24'-1"	24'-1" 24'-8" 26'-10" 27'-5" 28'-3" 28'-7"	21'-9" 22'-4" 24'-3" 24'-10" 25'-7" 25'-11"	18'-5" 19'-5" 21'-1" 21'-7" 22'-2" 22'-6"
16"	NI-60 NI-70 NI-80 NI-90 NI-90x	30'-9" 33'-3" 34'-1" 35'-0" 35'-7"	27'-10" 30'-1" 30'-10" 31'-8" 32'-2"	23'-9" 25'-9" 26'-9" 27'-5" 27'-11"	29'-6" 31'-11" 32'-8" 33'-7" 34'-2"	26'-8" 28'-11" 29'-7" 30'-5" 30'-11"	23'-2" 25'-1" 25'-8" 26'-5" 26'-10"	27'-5" 29'-9" 30'-5" 31'-4" 31'-10"	24'-10" 26'-11" 27'-7" 28'-4" 28'-9"	21'-7" 23'-4" 23'-11" 24'-7" 25'-0"

MAXIMUM ROOF SPANS FOR NORDIC I-JOISTS

Snow Load = 50 psf, Dead Load = 15 psf

	Joist Series	Slope of 1/4:12 to 4:12 On Centre Spacing			Slope of >4:12 to 8:12			Slope of >8:12 to 12:12		
Joist					On C	entre Spo	ıcing	On Centre Spacing		
Depth		12"	16"	24"	12"	16"	24"	12"	16"	24"
9-1/2"	NI-20	16'-0"	14'-6"	12'-6"	15'-4"	13'-11"	12'-0"	14'-7"	13'-2"	11'-5"
	NI-40x	18'-4"	16'-7"	14'-0"	17'-7"	15'-11"	13'-9"	16'-8"	15'-1"	13'-1"
	NI-60	18'-8"	16'-11"	14'-7"	17'-11"	16'-3"	14'-0"	17'-0"	15'-5"	13'-4"
	NI-70	20'-5"	18'-6"	16'-0"	19'-8"	17'-9"	15'-4"	18'-8"	16'-11"	14'-8"
	NI-80	20'-11"	18'-10"	16'-4"	20'-1"	18'-2"	15'-8"	19'-1"	17'-3"	14'-11"
11-7/8"	NI-20	19'-4"	17'-6"	15'-1"	18'-7"	16'-9"	14'-7"	17'-7"	15'-11"	13'-10"
	NI-40x	21'-11"	19'-8"	16'-0"	21'-1"	19'-1"	15'-9"	20'-0"	18'-1"	15'-5"
	NI-60	22'-5"	20'-3"	17'-7"	21'-6"	19'-6"	16'-10"	20'-5"	18'-6"	16'-1"
	NI-70	24'-6"	22'-1"	19'-1"	23'-6"	21'-3"	18'-5"	22'-4"	20'-2"	17'-6"
	NI-80	24'-11"	22'-7"	19'-6"	24'-0"	21'-8"	18'-9"	22'-9"	20'-7"	17'-10"
	NI-90	25'-9"	23'-3"	20'-1"	24'-9"	22'-4"	19'-4"	23'-6"	21'-3"	18'-5"
	NI-90x	25'-11"	23'-5"	20'-3"	24'-11"	22'-6"	19'-6"	23'-8"	21'-5"	18'-7"
14"	NI-40x	24'-11"	21'-7"	17'-7"	23'-11"	21'-3"	17'-4"	22'-9"	20'-7"	17'-0"
	NI-60	25'-7"	23'-2"	20'-0"	24'-7"	22'-3"	19'-3"	23'-4"	21'-1"	18'-4"
	NI-70	27'-9"	25'-1"	21'-8"	26'-8"	24'-1"	20'-11"	25'-4"	22'-11"	19'-11"
	NI-80	28'-5"	25'-8"	22'-3"	27'-3"	24'-8"	21'-4"	25'-11"	23'-5"	20'-4"
	NI-90	29'-3"	26'-5"	22'-10"	28'-1"	25'-5"	22'-0"	26'-8"	24'-2"	20'-11"
	NI-90x	29'-7"	26'-9"	23'-2"	28'-5"	25'-9"	22'-3"	27'-0"	24'-5"	21'-2"
16"	NI-60	28'-5"	25'-9"	21'-8"	27'-4"	24'-8"	21'-5"	25'-11"	23'-6"	20'-4"
	NI-70	30'-9"	27'-10"	21'-8"	29'-7"	26'-9"	23'-2"	28'-1"	25'-5"	22'-1"
	NI-80	31'-6"	28'-6"	23'-1"	30'-3"	27'-5"	23'-9"	28'-9"	26'-0"	22'-7"
	NI-90	32'-5"	29'-3"	25'-4"	31'-1"	28'-2"	24'-5"	29'-7"	26'-9"	23'-3"
	NI-90x	32'-11"	29'-9"	25'-9"	31'-7"	28'-7"	24'-9"	30'-0"	27'-2"	23'-7"

- 1. Maximum **clear** span applicable to simple-span roof construction with a design roof snow load as shown and dead load of 15 psf. The maximum span is based on the horizontal distance between inside face of supports. The ultimate limit states are based on the factored loads of 1.50S + 1.25D. The serviceability limit states are based on a live load deflection limit of L/360 and a total load deflection limit of L/240, and an importance factor of 0.9.

 2. Spans include a cantilever of up to 2 feet on one end of the I-joist.

- Spots include a Continence of the C
- SI units conversion: 1 inch = 25.4 mm, 1 foot = 0.305 m

CCMC EVALUATION REPORT 13032-I

INSTALLING NORDIC I-JOISTS

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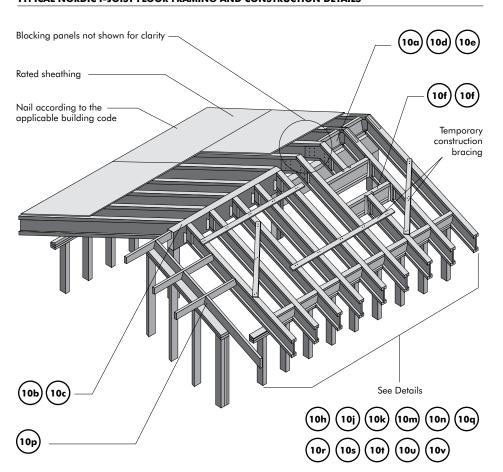
TYPICAL I-JOIST ROOF FRAMING CONSTRUCTION DETAILS AND INSTALLATION NOTES

- . Installation of Nordic I-joists shall be as shown in Figure 10.
- 2. Except for cutting to length, or for providing birdsmouth bearings, I-joist flanges must not be cut, drilled or notched.
- 3. I-joists are permitted to be birdsmouth cut at the lower end of the joist only. The birdsmouth cut must have full bearing and not overhang the inside face of the plate. Bearing / web stiffeners are required at the birdsmouth cut on both sides of the web.
- 4. When beveled bearing plates are used at I-joist supports, I-joist attachment to the bevel plate must be designed to transfer lateral thrust.
- 5. Concentrated loads should only be applied to the top surface of the top flange. At no time should concentrated loads be suspended from the bottom flange, with the exception of light loads such as ceiling fans or light fixtures.
- 6. I-joists must be protected from the weather prior to installation.
- 7. I-joists must not be used in applications where they will be permanently exposed to weather, or will reach a moisture content greater than 16 percent, such as in swimming pool or hot tub areas. They must not be installed where they will remain in direct contact with concrete or masonry.
- 8. End bearing length must be at least 1-3/4 inches. For continuous framing and roof framing with cantilevers, the intermediate support and end bearing adjacent to the cantilever both must be at least 3-1/2 inches. For multiple-span joists, intermediate bearing length must be at least 3-1/2 inches.
- panels are preferred. Cantilever-end blocking must be placed at the support adjacent to the cantilever. and ends of all cantilever extensions must be laterally braced by a fascia board or other similar methods
- 10. Rim board, I-joist blocking panels, or other means of providing lateral support must be provided at all 1-joist bearing points.
- 11. Continuous lateral support of the I-joist's compression flange is required to prevent rotation and buckling. In simple span roof applications, lateral support of the top flange is normally supplied by the roof sheathing. Bracing of the I-joist's bottom flange is also required at interior supports of multiple-span joists and at the end support next to an overhang. Lateral support of the entire bottom flange may be required in cases of load reversal such as those caused by high wind.
- 12. Nails installed perpendicular to the wide face of the flange shall be spaced in accordance with the applicable building code requirements or approved building plans, but should not be closer than 3 inches on centre for 2-1/2" common wire nails or 6 inches on centre for 3" common wire nails. If more than one row of nails is used, the rows must be offset at least 1/2 inch.
- 13. Details in Figure 10 show only I-joist-specific fastener requirements. For other fastener requirements, such as wind uplift requirements or other member attachment details, see the applicable building code. The knockouts may be removed to aid ventilation.
- 14. The top and bottom flanges of the I-ioist must be kept within 1/2 in. of true glianment. The use of I-ioist blocking panels or engineered wood rim board greatly simplifies this requirement.
- 15. All roof details are valid up to a 12:12 slope unless otherwise noted.
- 16. Refer to Nordic Installation Guide for Residential Floors for more details.
- 17. Roof spans shall be in accordance with Nordic Joist Maximum Roof Span Tables, or designed based on the use of the design properties.
- 18. Web holes shall be verified, please contact your local representative.

TYPICAL I-JOIST ROOF FRAMING TEMPORARY BRACING NOTES

- All engineered wood rim boards, blocking, connections, and temporary bracing must be installed before workers are allowed on the structure.
- 2. For temporary bracing, use lines of 1 x 4 nailed to each I-joist with two 2-1/2" nails. The lines should be parallel, about 8 ft apart, and should have ends overlapped
- 3. To prevent rollover of the entire roof system, brace each end and every 25 ft of roof with blocking at ends or diagonal bracing. Please note that in a roof system framed with parallel-chord rafters such as I-joists, the panel roof sheathing alone does not provide bracing for the roof framing!. The blocking or bridging at the bearing points must be provided.
- 4. The continuous 1 x 4 bracing must be attached to the braced bays.

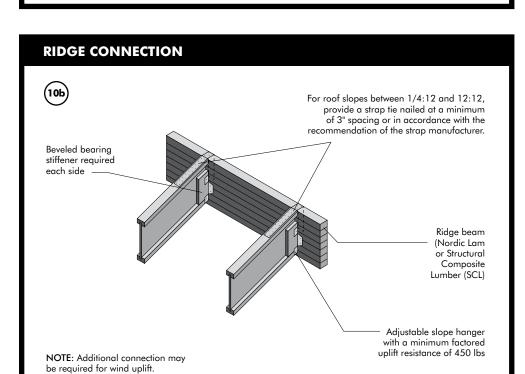
TYPICAL NORDIC I-JOIST FLOOR FRAMING AND CONSTRUCTION DETAILS



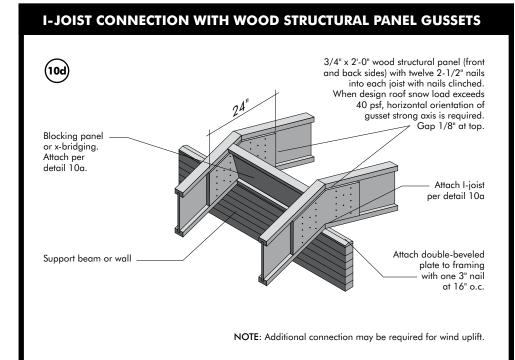
All nails shown in the above details are assumed to be common wire nails unless otherwise noted. 3" (0.122" dia.)

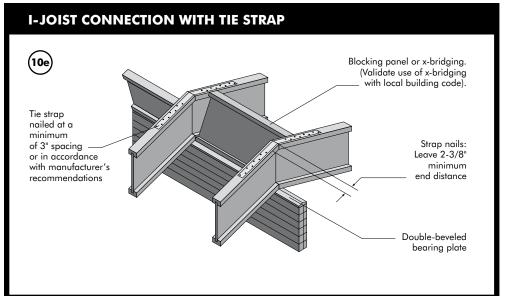
common spiral nails may be substituted for 2-1/2" (0.128" dia.) common wire nails. Framing lumber assumed to be Spruce-Pine-Fir No. 2 or better species. Individual components not shown to scale for clarity. Provide adequate

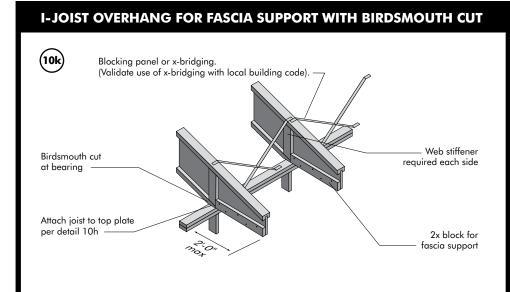
UPPER END, BEARING ON WALL (10a) Blocking panel, x-bridging, or 3/4" sheathing as continuous closure. (Validate use of x-bridging with local building code). 2-1/2" nails at 6" o.c. minimum three 2-1/2" Minimum attachment: nails per blocking panel For slope $\leq 1/4:12$, one When used for 3" common spiral nail, lateral shear transfer face nail at each side match nail type and of bearing. For slope sheathing edge nailing >1/4:12 design joist ("boundary nailing" attachment to beveled for engineered plate to transfer lateral diaphragm applications) 2-1/2" nails. Beveled plate for slopes greater than 1/4:12. Attach to framing with one 3-1/2" nail at 16" o.c. Bearing stiffener required when end reaction exceeds 2,450 lbs. Code-recognized connectors may be substituted. NOTE: Additional connection may For slopes greater than 4:12, connectors are be required for wind uplift. required to resist lateral thrust.

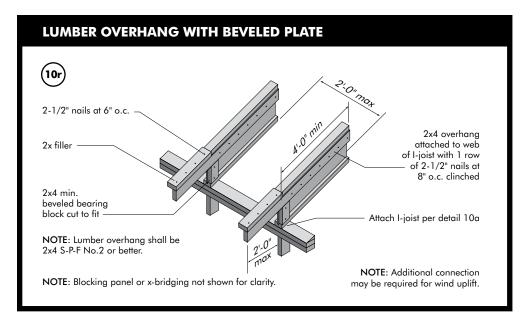


I-JOIST TO RIDGE BEAM CONNECTION For roof slopes between 1/4:12 and 12:12, provide a strap nailed at a minimum of 3" spacing on each side of roof slope or in accordance with the recommendation of the strap manufacturer Adjustable slope hanger with a minimum factored uplift resistance of 450 lbs Ridge beam Beveled bearing stiffener required each side NOTE: Additional connection may be required for wind uplift.









BACKER BLOCK

Double I-ioist header =

Top- or face-mount hanger

Filler block

2-1/2"

3-1/2"

FILLER BLOCK

(1p)

Backer block (use if hanger load exceeds 360 lbs)

For hanger capacity see hanger manufacturer's recommendations.

BACKER BLOCKS (Blocks must be long enough to permit required nailing without splitting)

5-1/2"

7-1/4"

** For face-mount hangers use net joist depth minus 3-1/4" for joists with 1-1/2" thick flanges. For 2" thick

* Minimum grade for backer block material shall be S-P-F No. 2 or better for solid sawn lumber and

Verify double I-joist capacity to support concentrated loads.

Material Thickness

Required*

1-1/2"

flanges use net depth minus 4-1/4".

wood structural panels conforming to CSA O325 or O437 Standard.

Filler block

Before installing a backer block to a double I-joist, drive three additional 3" nails through the webs and filler block where the backer block will fit. Clinch.

Install backer tight to top flange. Use twelve 3" nails, clinched when possible.

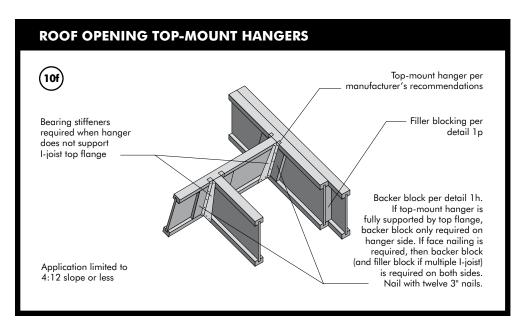
Note: Unless hanger sides

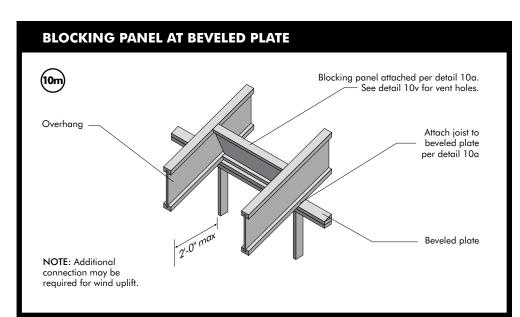
laterally support the top flange, bearing stiffeners

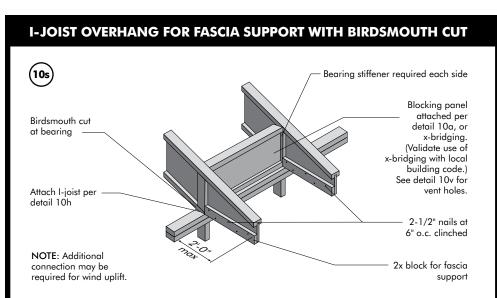
Backer block required (both sides for face-mount

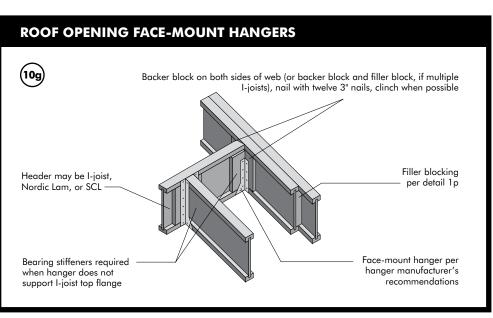
shall be used.

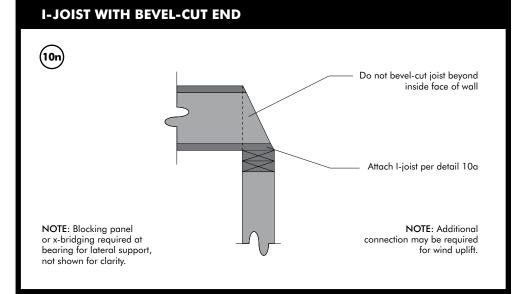
Maximum factored resistance for hanger for this detail = 1,620 lbs.

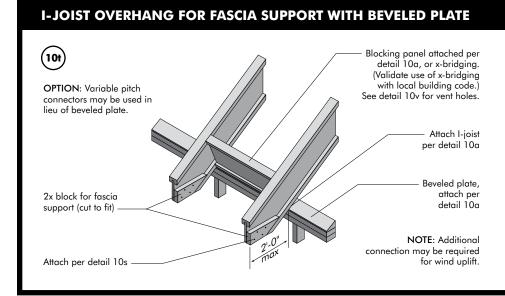


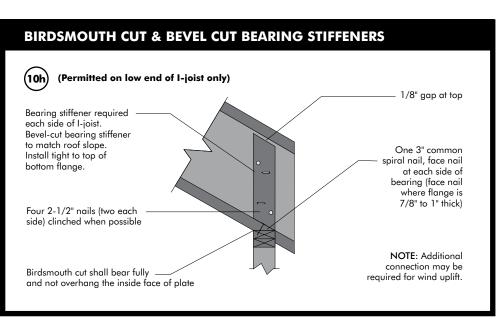


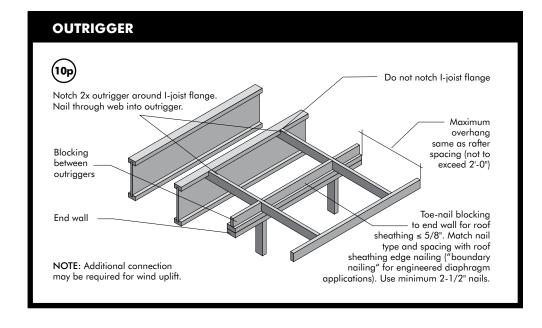


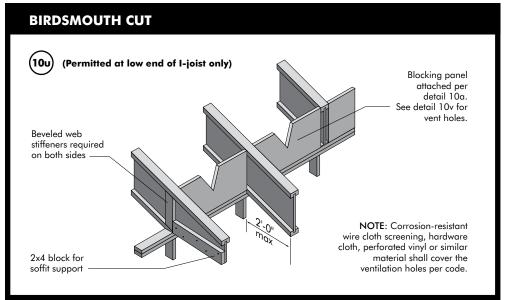


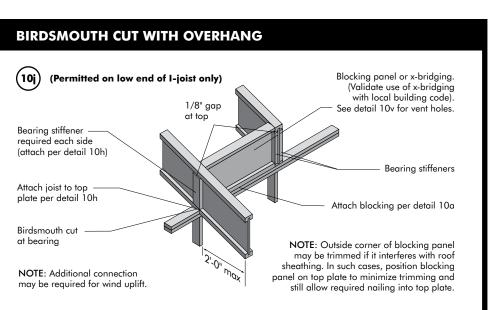


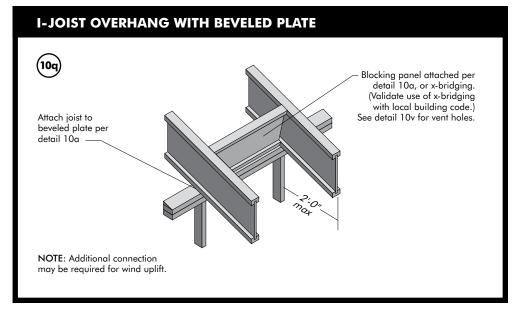


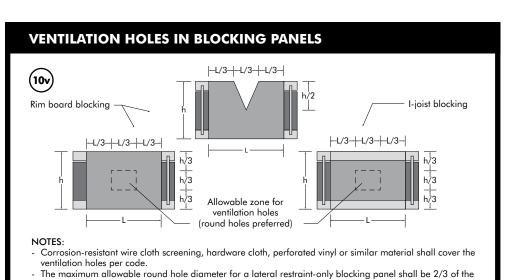












Whenever possible, field-cut holes should be centred in the blocking panel both vertically and horizontally.

lesser dimension of blocking panel depth or length.

Offset nails from opposite face by 6" 1/8" to 1/4" gap between top flange and filler block FILLER BLOCK REQUIREMENTS FOR DOUBLE I-JOIST CONSTRUCTION NOTES: Filler Block Size 1. Support back of I-joist web during nailing to prevent damage to web/flange connection. 9-1/2" 2-1/8" x 6" 2. Leave a 1/8 to 1/4-inch gap between top of 11-7/8" 2-1/8" x 8" 2-1/2" x filler block and bottom of top I-joist flange. 1-1/2" 2-1/8" x 10" 2-1/8" x 12" 3. Filler block is required between joists for full length of span. 9-1/2 3" x 6" 4. Nail joists together with two rows of 3" nails 3-1/2"> 11-7/8" 3" x 8" 1-1/2" at 12 inches o.c. (clinched when possible) 3" x 12" on each side of the double I-ioist. Total of four nails per foot required. If nails 11-7/8" 3" x 7" can be clinched, only two nails per foot are 3-1/2" x reauired. 3" x 11" 5. The maximum factored load that may be applied to one side of the double joist using this detail is 860 lbf/ft. Verify double I-ioist **CHANTIERS PRODUCT WARRANTY** Chantiers Chibougamau guarantees that, in accordance with our specifications, Nordic products are free from manufacturing defects in material and workmanship. ${\it F}$ urthermore, Chantiers Chibougamau warrants that our products, when utilized in accordance with our handling and installation instructions, will meet or exceed our specifications for the lifetime of the structure.