





DO NOT stack building materials or

unsheathed joists. Stack only over

bearing walls or main beams.



DO NOT use damaged products



INSTALLATION CAUTIONS

- 1. Joists are unstable until properly attached and braced laterally. Failure to 5. Rows of temporary bracing running at right angles to the joists and spaced not more than 10' on center must extend to the established lateral restraint. Bracing should be a minimum of 1x4, at least 8' long, attached to the top face of each joist with a minimum of two 8d nails 10d if bracing is 2x4). Ends of bracing should overlap at least two
 - 6. Ends of cantilevers require temporary bracing on both the top and
 - ottom flanges. 7. Sheathing must be completely attached to each BLI joist before
 - additional loads can be placed on the system. 8. Joist flanges must remain straight within 1/2" of true alignment.

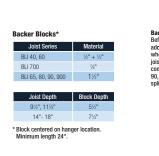
F9 BLOCKING PANEL, INTERIOR Vertical load transfer = 2000 plf max. (18" – 1810 plf) Load bearing wall must stack over blocking and wall or beam below.* When joists meet over wall, provide

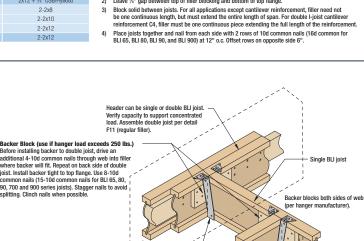
Non-stacking load bearing walls require additional consideration F11 DOUBLE JOIST CONSTRUCTION WITH FILLER

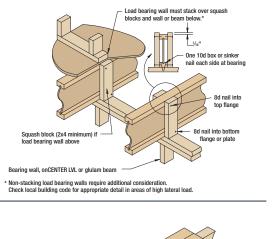
2x6 + %" OSB/Plywood 2x8 + 3/1" OSB/Plywoo 2-2x8 BLI 65, 80 90, 900 2-2x8 BLI 80, 90 18" 2-2x8

Hiller blocks and fastening between joists can be omitted when double joists are load ly from above to the tops of both joists, such as when a parallel bearing wall is directly

F12 FLOOR OPENING, TOP MOUNT HANGERS





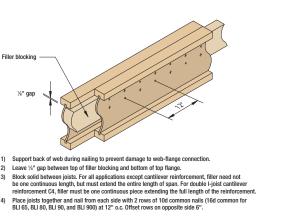


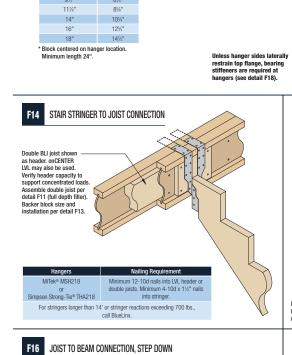
SQUASH BLOCKS AT INTERIOR BEARING

ertical load transfer = 2000 plf max. along load

BLUELINX

DELIVERING WHAT MATTERS





blocking panels, x-bridging, or continuous closure (rim board, rim joist or

accomplished by a temporary or permanent deck (sheathing) fastened to the full length of the first 4' of joists in the run.

on back side of double joist. Install backer tight to top flange. Use 18-10d common nails. Stagger

3. Install all fasteners in each joist, beam, hanger, blocking panel,

4. Lateral restraint, such as a braced end wall or existing deck, must be established parallel to the first joist in a run. This can also be

x-bridging, or continuous closure as it is set.

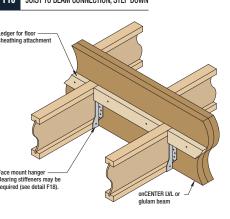
FLOOR OPENING, FACE MOUNT HANGERS

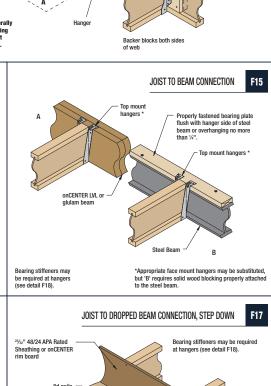
Joist Series Material

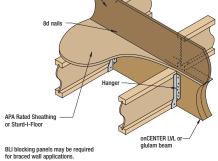
BLI 65, 80, 90, 900 11/2"

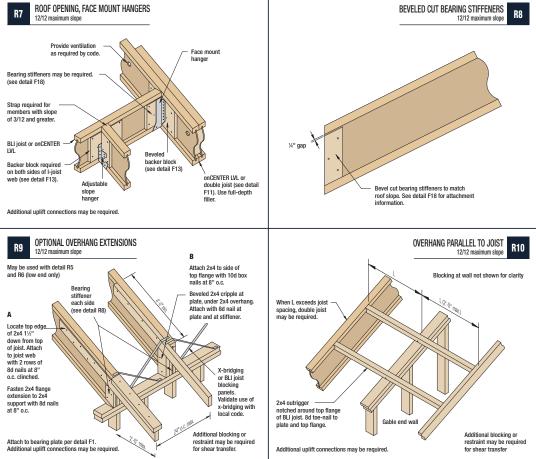
Joist Depth Block Depth

structural panel).

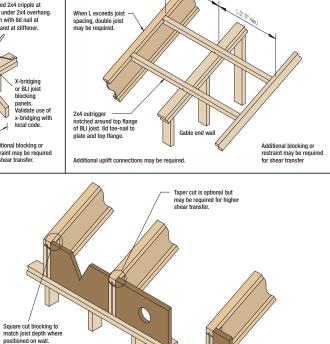




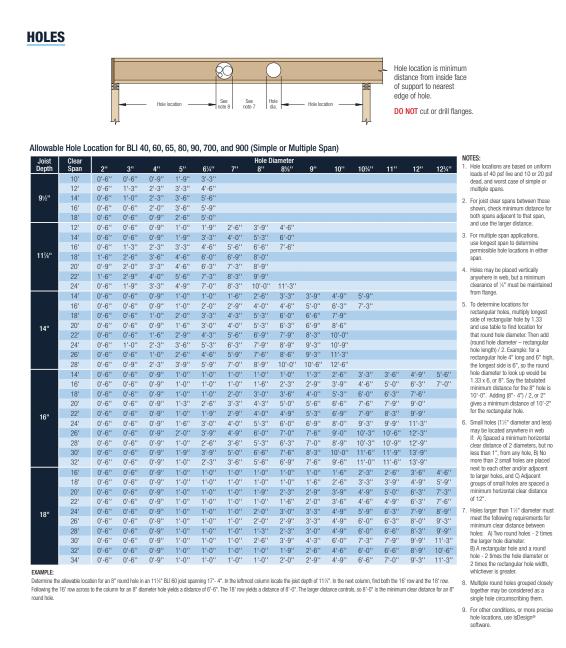


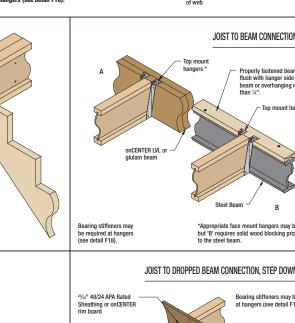


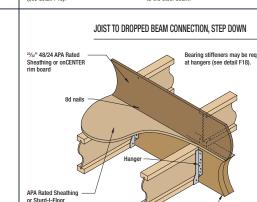
R11 ROOF BLOCKING WITH PERMITTED VENTILATION



Taper to match beveled plate on wall.







INSTALLATION NOTES

1. BlueLinx onCENTER products must be protected from weather and used only in covered, dry-use conditions (conditions in which moisture content of solid sawn lumber is less than 16%). 2. BLI joists must be supported by the bottom flange on walls or beams

- or in hangers. They must not be supported by the top flange, by a non-structural ridge board, or by toe-nailing into a beam or ledger. 3. For BLI joists, minimum end bearing length is 13/4"; minimum intermediate bearing length is 31/2"
- 4. BLI joists and LVL must be restrained from rotation at ends and each support. The top (or compression) edge must have continuous latera
- compression edge. 5. Engineered lumber must not be installed in direct contact with masonry or concrete.
- 6. When nail type is not specified in this guide, common, box or sinkers may be used.



) and staggered. aune stanles may be substituted for 8d nails if nenetration into the inist flance is at least :

DO NOT support BLI joist

DO NOT birdsmouth cut bottom

See roof detail R2.

flange at high end of roof BLI joist.

by top flange or web.

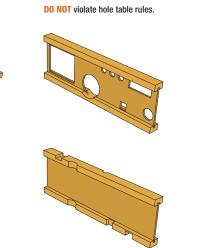
3. Do not use nails larger than those shown above when attaching sheathing to BLI joist

DO NOT bevel cut BLI joist past

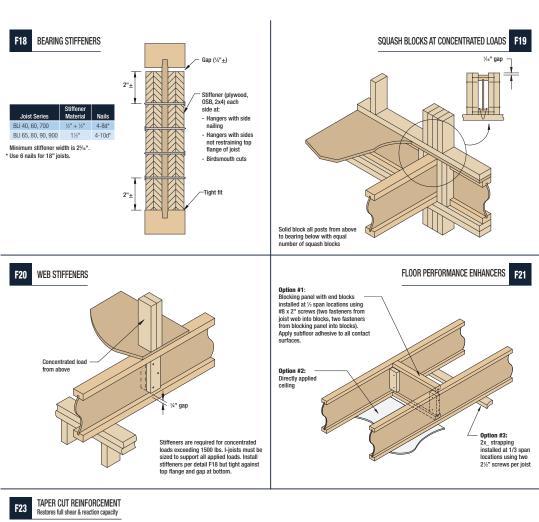
face of wall. See detail F8.

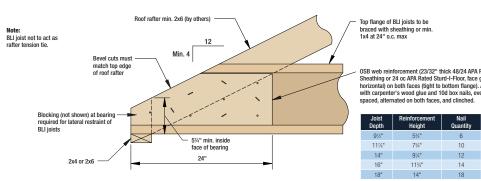
Minimum Spacing and Distance for Nails Installed into onCENTER LV 2d (0.148") & smaller 11/2" 3" Face^c 16d (0.162") 1¹/₂" 5" 5" stance for single row nailing is 3". Installed in rows parallel to the grain (length) of the LVL. support, such as properly installed sheathing directly attached to the 9. BLI joists are manufactured with no camber, and may be installed with web markings reading right side up or upside down.

- 10. Except when cutting to length or for birdsmouth cuts, BLI joist flanges should not be cut, tapered, notched, or drilled. 1. Concentrated loads should be supported by the top surface of the top flange, not hung from the bottom flange (Exceptions: lighting
- fixtures, ceiling fans, etc.). 2. Certain applications of staple-up radiant heating may increase deflection in I-joists with solid-sawn flanges due to unequal drying within the floor cavity (see APA publication TT-113).
- 3. With fire-retardent or preservative treated wood, use only stainless steel or hot-dipped galvanized connectors, fasteners and other metal hardware as required by code. As a minimum requirement, hot-dipped galvanized coated fasteners should conform to ASTM Standard A 153 and hotdipped galvanized coated connectors should conform to ASTM Standard
- A 653 (Class G-185). In highly corrosive environments, stainless steel connectors and fasteners should be used.



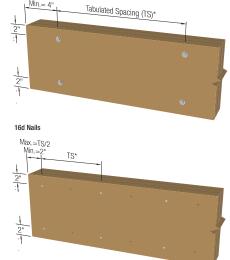
DO NOT cut or notch flanges except for cutting to length and for birdsmouth cuts (roof detail R6).



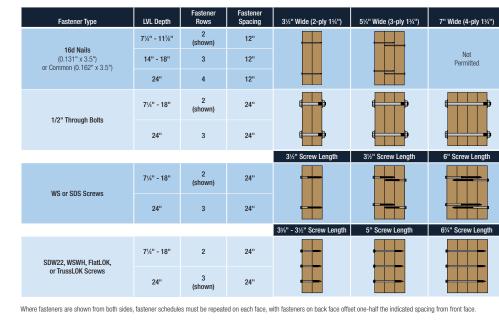


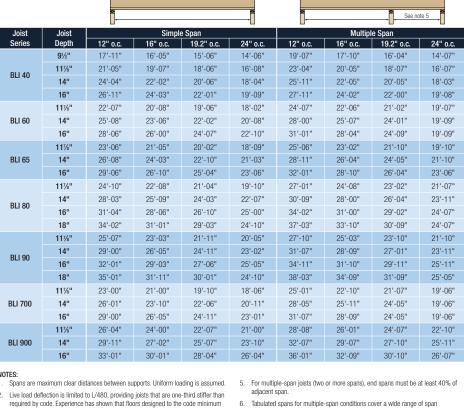
Bolts & Screws

MULTIPLE-PLY LVL FASTENING

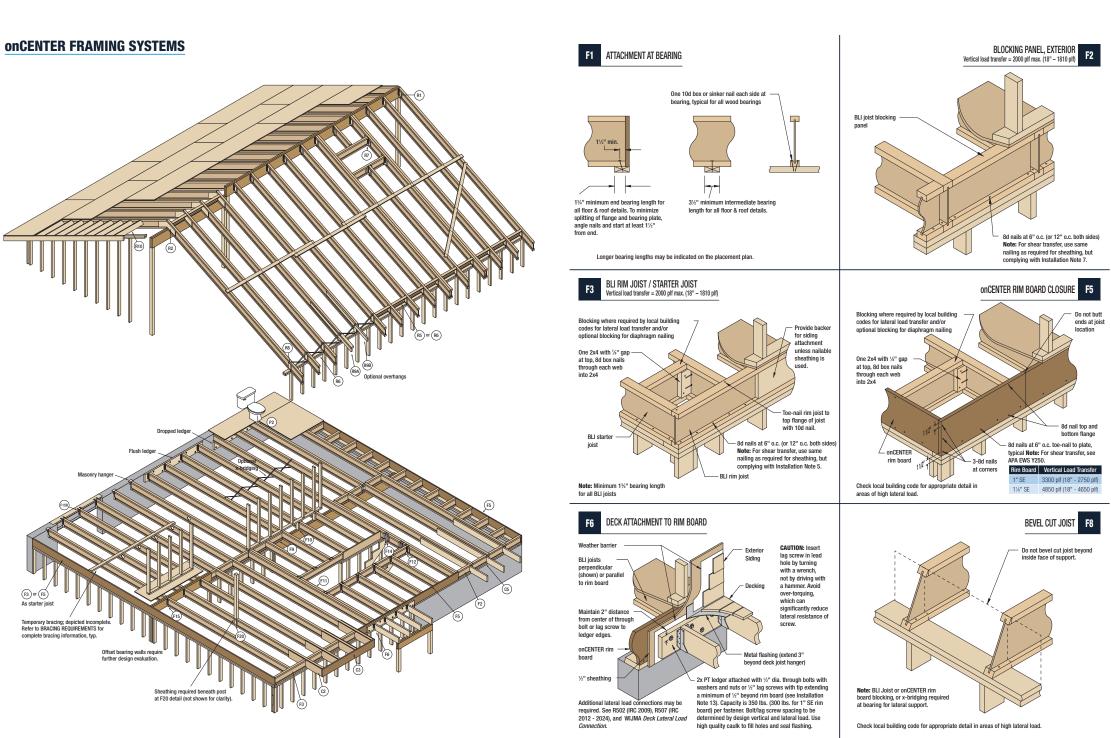


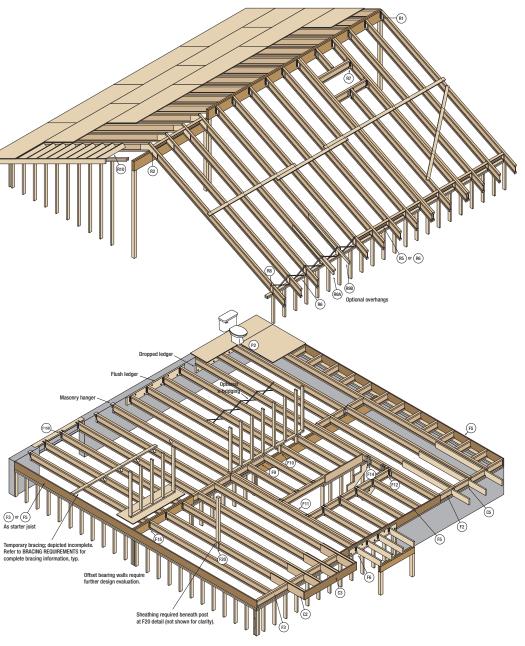
Graphic above shows 2 rows of nails applied to both faces.

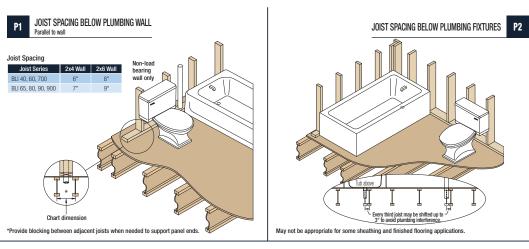


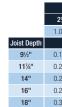


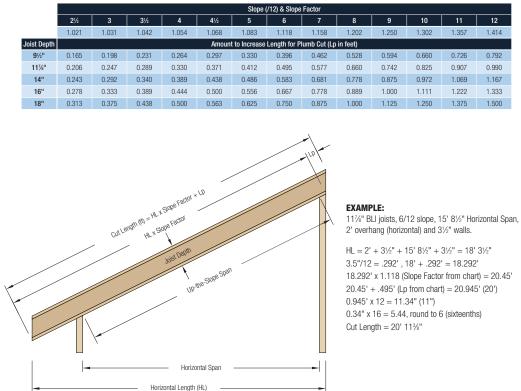
live load deflection (L/360) may not meet the occupant's expectations for floor ombinations. Neither simple nor multiple spans require bearing stiffeners. Longer ans may be possible by analyzing a specific span condition and/or by adding earing stiffeners. Check using isDesign® software. 3. Spans are based on composite action with glued-nailed APA Rated Sheathing or Spans are based of composite action with globel-handled shearing of Sturd-Floore's panels of minimum thickness "%" (40/20 or 20 of for joist spacing of 19.2" or less, or %"/2" (48/24 or 24 oc) for a joist spacing of 24". Apply a ¼" diameter continuous bead of adhesive (meeting APA AFG-01 or ASTM D 3498) to top flange of sibesign software, or contact BlueLinx Engineered Lumber Technical Services. joists. Surfaces must be clean and dry. If adhesive is not used, reduce spans by 12' 4. Minimum bearing length: 1³/₄" (end), 3¹/₂" (intermediate).

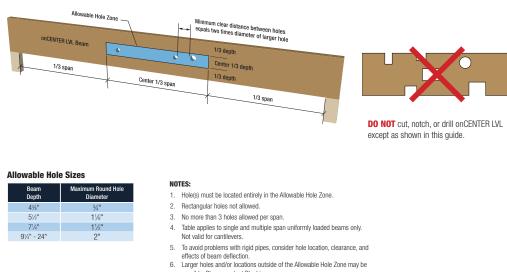














without notice. Installation Limitation of Liability:

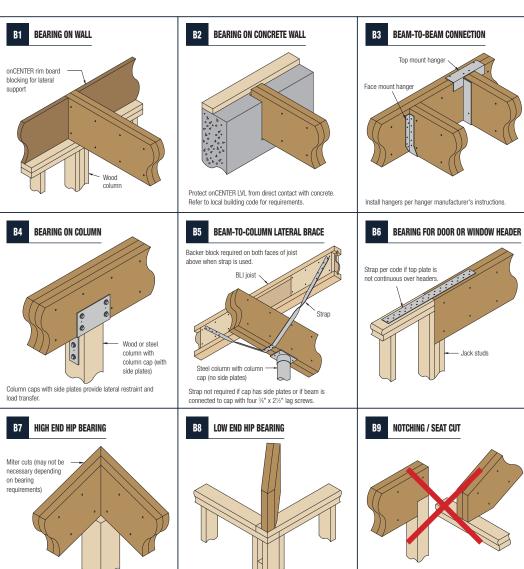
MILDEW ARE EXPRESSLY EXCLUDED.

onCENTER LVL BEARING DETAILS

Hip beams must bear on post or in properly designed

connector.

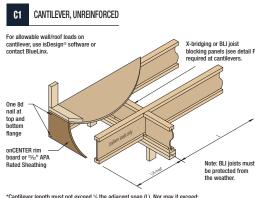
• Required bearing length depends on applied loads, but may not be less than 1½" for end and 3" for intermediate bearings. Verify adequacy of supporting material to carry applied loads



Wall plate or post must fully support hip beam. Seat cut

must not extend beyond inside face of bearing.

DO NOT notch beam at bearing. Seat cut must not extend beyond inside face of bearing.

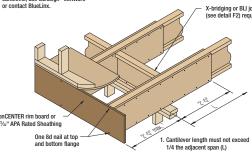


CANTILEVER, DOUBLE REINFORCEMENT Double Sheathing/Rim Board

performance.

FLOOR SPANS

40 PSF Live Load + 10 PSF Dead Load (L/480)

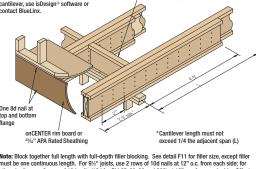


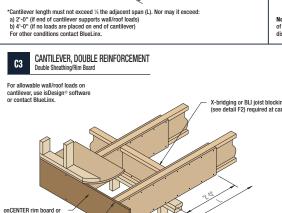
X-bridging or BLI joist blocking pane (see detail F2) required at cantilever cantilever, use isDesign[®] software or contact BlueLinx. One 8d nail at top and bottom flange onCENTER rim board or ²³/₂₂" APA Rated Sheathing Cantilever length must not exceed 1/4 the adjacent span (L)

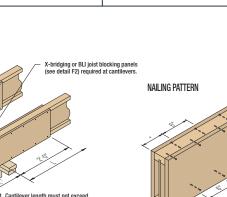
	(see detail F2) required at cantilevers.	
	\sim	NAILING PATT
per 1.5 million 1. Cantilever leng 1/4 the adjace	gth must not exceed nt span (L)	
48/24 APA Rated Sheathing (strength axis s of joist. Depth must match full depth of joist.		~

Note: Block together full length with full-depth filler blocking. See detail F11 for filler size, except filler must be one continuous length. For 9/;/" joists, use 2 rows of 10d nails at 12" o.c. from each side; for other depths, use 3 rows of 10d nails (16d for BLI 65, 80, 90 and 900) at 12" o.c. from each side. Offset opposite side nailing by 6".

Note: onCENTER rim board or 4 horizontal) required both sides C4 CANTILEVER, DOUBLE REINFORCEMENT Double Joist

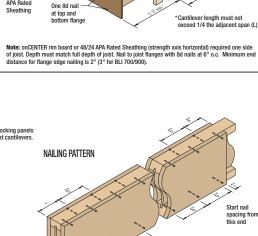




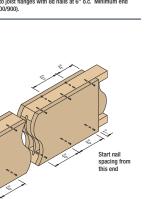


hridaina or BLLiois

cking panels (see detail required at cantilevers).



CANTILEVER, SINGLE REINFORCEMEN



Nail to joist flanges with 8d nails at 6" o.c. Offset nailing on opposite side of flange to avoid splittin * Minimum end distance for flange edge nailing is 2" (3" for BLI 700/900).

CANTILEVER, DROPPED C5

but depth to match that of full-depth filler blocking (detail F11). Install backer tight to bottom flange. Nail

with 2 rows of 10d nails at 6" o.c. and clinch.

. These minimum requirements are adequate only when all loads are

side face(s) of the beam, see designer's specifications.

Contact BlueLinx.

head and nut.

driven, over-tightened, or countersunk.

evaluation. Please contact BlueLinx.

evenly applied to the top surface of all plies. If loads are applied to the

Table below shows required fastener spacings and number of rows. End distances and edge distances must comply with diagram on the left. For

offset fastening patterns, maximum end distance applies to all rows.

4. Fasteners must have full embedment of the shank, but must not be over

5. Bolt hole diameter must be $\frac{1}{32}$ to $\frac{1}{16}$ larger than bolt diameter. Bolts

6. Carriage bolts (1/2" diameter) may be used for through bolts. Carriage

. Spacings closer than those indicated may be acceptable, but require

SDS and SDW structural screws are produced by Simpson Strong-Tie®

Company, Inc. FlatLOK® and TrussLOK® structural screws are produced

by FastenMaster-OMG, Inc. Install screws per manufacturers' guidelines.

8. WS and WSWH structural screws are produced by MiTek USA, Inc.

heads are even with the exterior face of the outer ply.

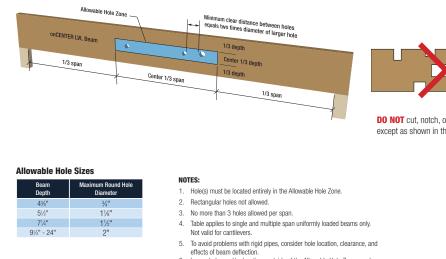
are to meet ASTM A307 or SAE J429 grades. Bolts must extend through

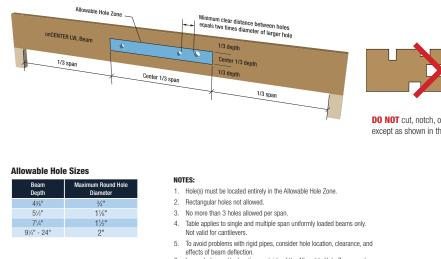
full thickness of member and at least $\ensuremath{\frac{1}{2}}\xspace^{\prime\prime\prime}$ beyond. Use a washer under

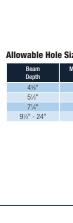
bolt heads may be drawn into the face of the LVL such that the top of the

3. Fastening for depths less than $7\rlap!4"$ requires special consideration.

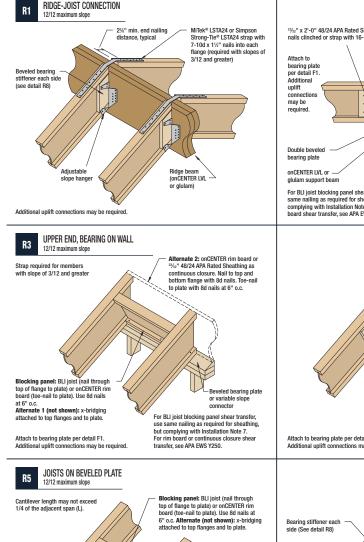




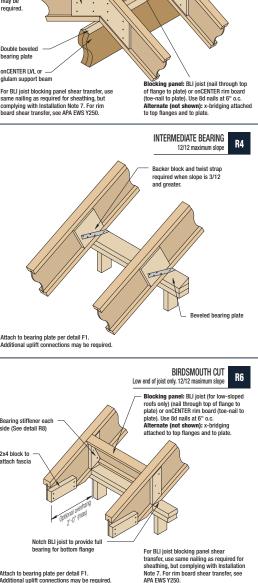




ROOF SLOPE FACTORS & PLUMB CUT INCREASES



2x4 block to attach fascia Additional uplift connections may be Installation Note 7. For rim board s transfer, see APA EWS Y250.



JOISTS ABOVE RIDGE SUPPORT BEAM 12/12 maximum slope R2

ALLOWABLE HORIZONTAL HOLES IN ONCENTER LVL

possible. Please contact BlueLinx.

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