

STORAGE & HANDLING









time of use. Store on dry level ground should be stacked flatwise).

SAFETY PRECAUTIONS

using stacked support blocks 10' on

center to keep bundles at least 6" off

the ground and to allow air circulation.







bearing walls or main beams.

equipment when handling and installing onCENTER engineere lumber. Contact BlueLinx for SDS

BRACING REQUIREMENTS

Use safety glasses, gloves, hard



structural panel).

- 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 provide stability can result in serious accidents. 2. Restrain joists and beams from rotation at the end supports by use of blocking panels, x-bridging, or continuous closure (rim board, rim joist or
- 3. Install all fasteners in each joist, beam, hanger, blocking panel, x-bridging, or continuous closure as it is set.
- 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 accomplished by a temporary or permanent deck (sheathing) fastened to the full length of the first 4' of joists in the run.
- 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
- 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 ½" of true alignment.

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. 11/2" 5" 5" -3. For BLI joists, minimum end bearing length is 1¾"; minimum intermediate bearing length is 31/2".

- 4. BLI joists and LVL must be restrained from rotation at ends and each
- support, such as properly installed sheathing directly attached to the 9. BLI joists are manufactured with no camber, and may be installed compression edge. with web markings reading right side up or upside down. 5. Engineered lumber must not be installed in direct contact with masonry or concrete.
- 10. Except when cutting to length or for birdsmouth cuts, BLI joist flanges should not be cut, tapered, notched, or drilled. 6. When nail type is not specified in this guide, common, box or sinkers 1. Concentrated loads should be supported by the top surface of the

top flange, not hung from the bottom flange (Exceptions: lighting

cuts (roof detail R6).

7. When nailing to the wide face of BLI joist flanges, maintain spacing within the following ranges: 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).

INSTALLATION NOTES

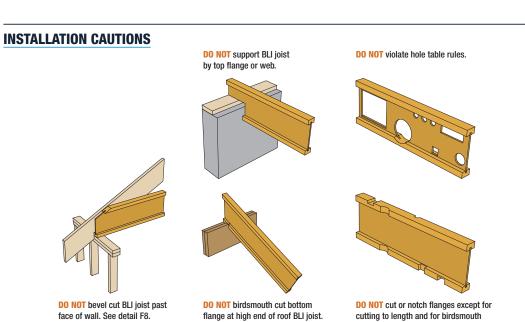
may be used.

 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%).

support. The top (or compression) edge must have continuous latera

3. With 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 hot-dipped 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.



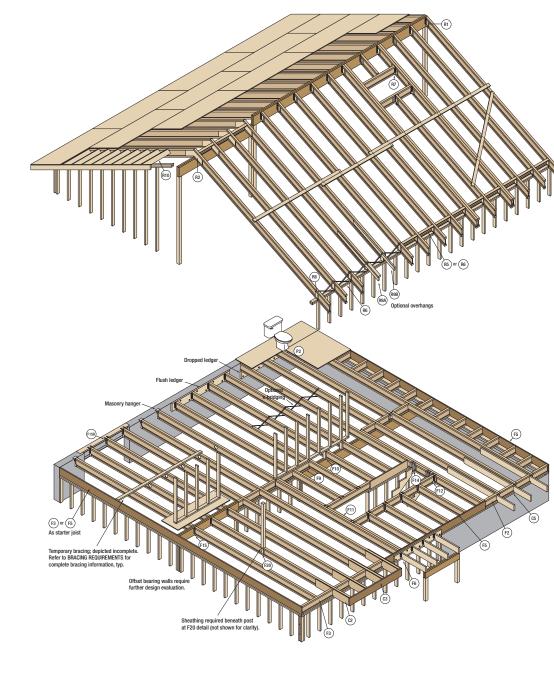
See roof detail R2.

40 PSF Live Load + 10 PSF Dead Load (L/480) **11%"** 21'-05" 19'-07" 18'-06" 16'-08" 23'-04" 20'-05" 18'-07" 16'-07" **14"** 24'-04" 22'-02" 20'-06" 18'-04" 25'-11" 22'-05" 20'-05" 18'-03" **16"** 26'-11" 24'-03" 22'-01" 19'-09" 27'-11" 24'-02" 22'-00" 19'-08" **14"** 25'-08" 23'-06" 22'-02" 20'-08" 28'-00" 25'-07" 24'-01" 19'-09" **16"** 28'-06" 26'-00" 24'-07" 22'-10" 31'-01" 28'-04" 24'-09" 19'-09" **16"** 29'-06" 26'-10" 25'-04" 23'-06" 32'-01" 28'-10" 26'-04" 23'-06" **16"** 29'-00" 26'-05" 24'-11" 23'-01" 31'-07" 28'-09" 24'-05" 19'-06" **11**%" 26'-04" 24'-00" 22'-07" 21'-00" 28'-08" 26'-01" 24'-07" 22'-10" BLI 900 14" 29'-11" 27'-02" 25'-07" 23'-10" 32'-07" 29'-07" 27'-10" 25'-11" **16"** 33'-01" 30'-01" 28'-04" 26'-04" 36'-01" 32'-09" 30'-10" 26'-07" Live load deflection is limited to L/480, providing joists that are one-third stiffer than required by code. Experience has shown that floors designed to the code minimum Tabulated spans for multiple-span conditions cover a wide range of span combinations. Neither simple nor multiple spans require bearing stiffeners. Longer live load deflection (L/360) may not meet the occupant's expectations for floor spans may be possible by analyzing a specific span condition and/or by adding bearing stiffeners. Check using isDesign® software. 3. Spans are based on composite action with glued-nailed APA Rated Sheathing or For loading other than that shown above, refer to Uniform Load Tables in the Sturd-Floor panels of minimum thickness "½" (40/20 or 20 oc) for joist spacing of 19.2" or less, or "½" (48/24 or 24 oc) for a joist spacing of 24". Apply a ½" diameter continuous bead of adhesive (meeting APA AFG-01 or ASTM D 3498) to top flange of onCENTER Product Guide, use isDesign software, or contact BlueLinx Engineered

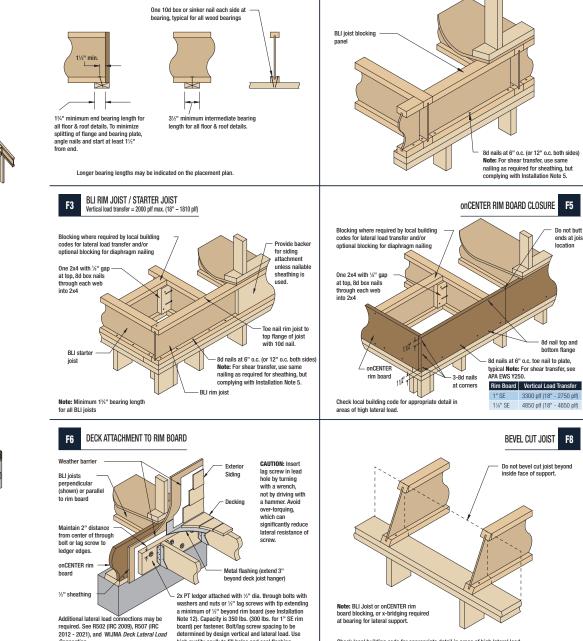
FLOOR SPANS

4. Minimum bearing length: 1¾" (end), 3½" (intermediate).

joists. Surfaces must be clean and dry. If adhesive is not used, reduce spans by 12'

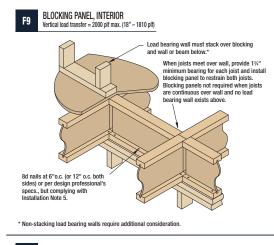


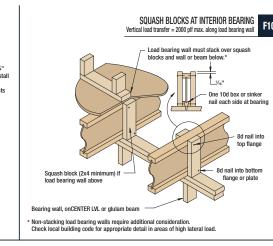
ONCENTER FRAMING SYSTEMS

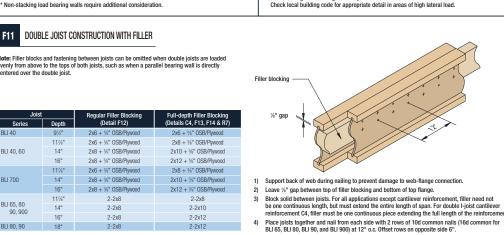


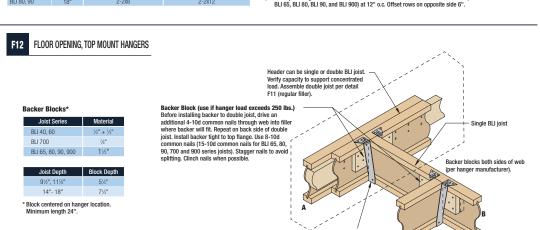
high quality caulk to fill holes and seal flashing.

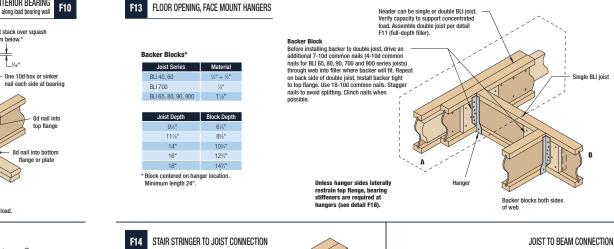
F1 ATTACHMENT AT BEARING

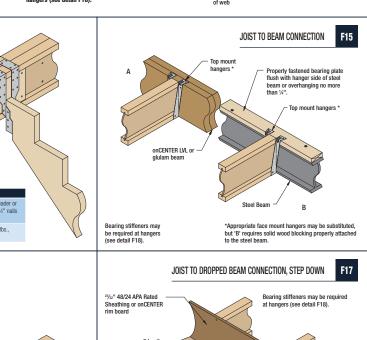


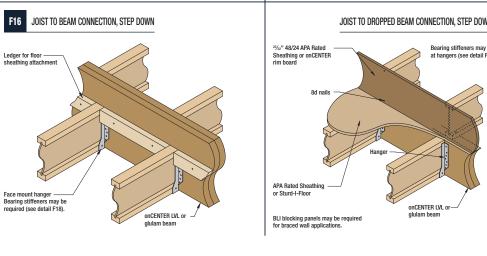


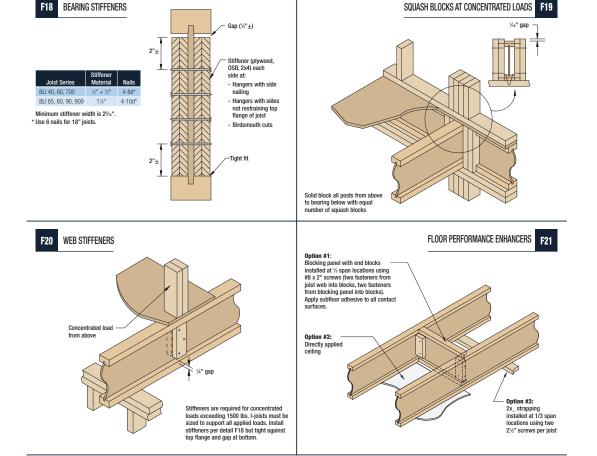


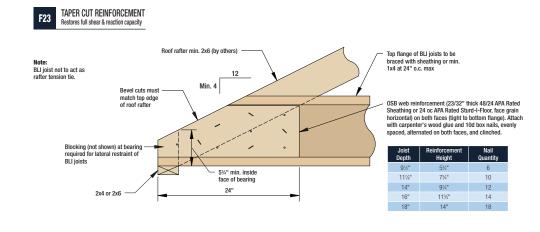


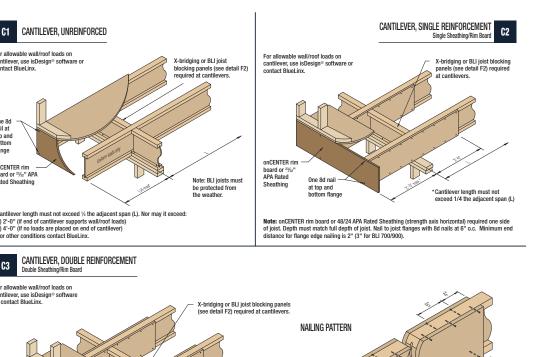


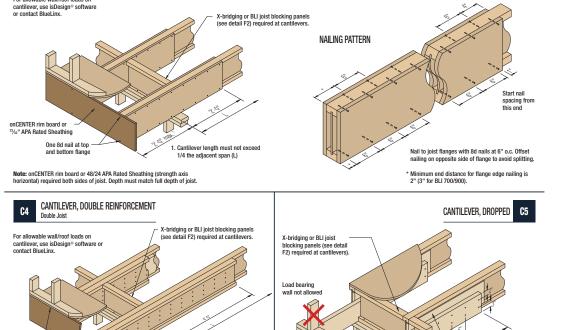


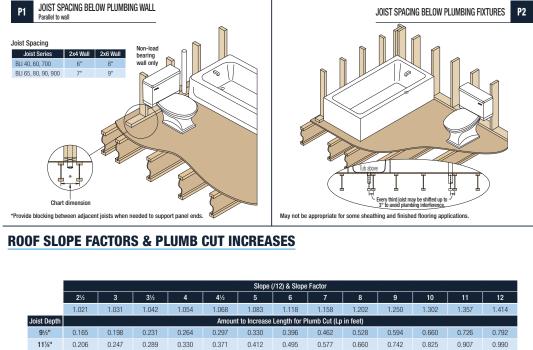


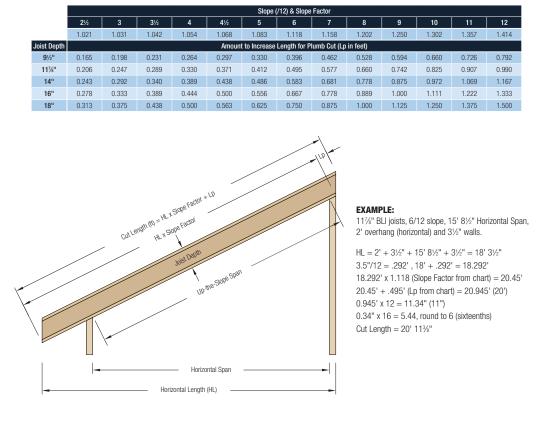


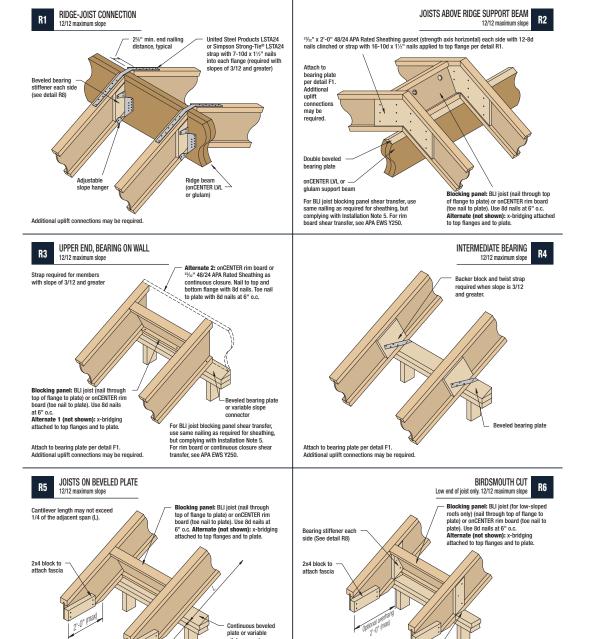




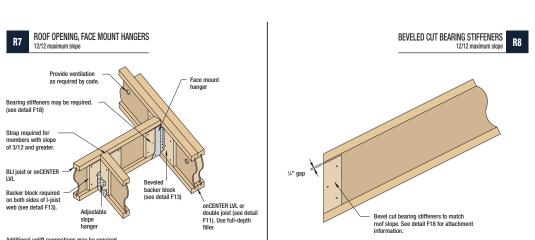


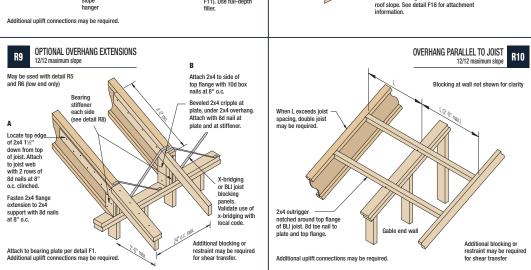


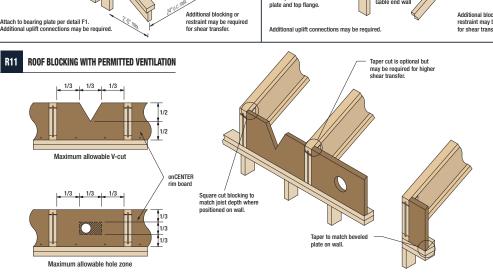




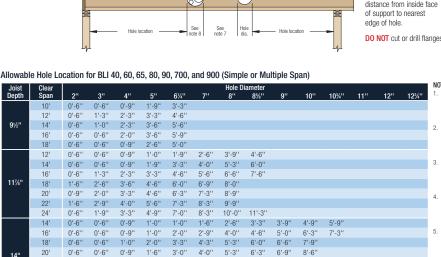
Check local building code for appropriate detail in areas of high lateral load.

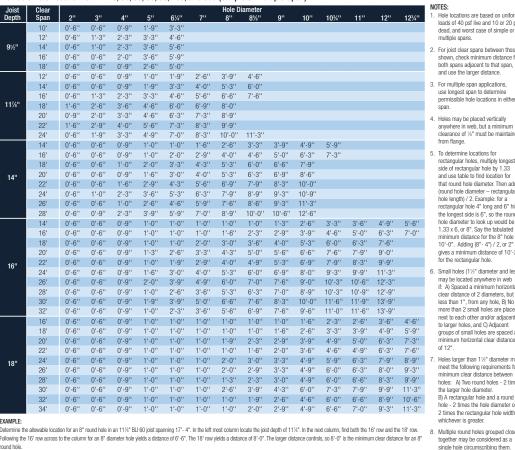




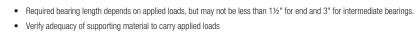


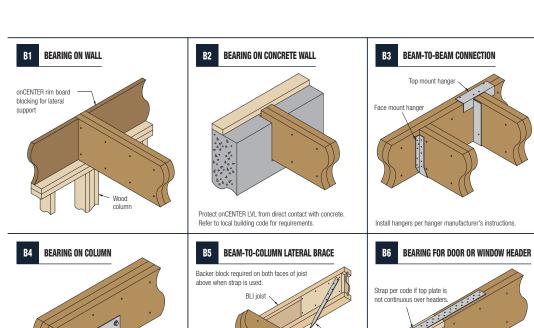






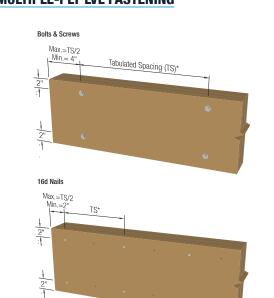
ONCENTER LVL BEARING DETAILS





load transfer.		connected to cap with four 3/8" x 21/2" lag screws.	
	B7 HIGH END HIP BEARING	B8 LOW END HIP BEARING	B9 NOTCHING / SEAT CUT
n oi	liter cuts (may not be accessary depending n bearing quirements)		
	ip beams must bear on post or in properly designed onnector.	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.

MULTIPLE-PLY LVL FASTENING



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/s" 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 BU 65, 80, 90 and 900) at 12" o.c. from each side. Offset opposite side nailing by 6".

- . These minimum requirements are adequate only when all loads are evenly applied to the top surface of all plies. If loads are applied to the side face(s) of the beam, see designer's specifications. 2. 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. 3. Fastening for depths less than $7 \ensuremath{\ensuremath{\%^{\text{"}}}}$ requires special consideration. 4. Fasteners must have full embedment of the shank, but must not be over
- driven, over-tightened, or countersunk. 5. Bolt hole diameter must be 1/2 to 1/6 larger than bolt diameter. Bolts are to meet ASTM A307 or SAE J429 grades. Bolts must extend through full thickness of member and at least $\frac{1}{2}$ " beyond. Use a washer under
- heads are even with the exterior face of the outer ply. . Spacings closer than those indicated may be acceptable, but require evaluation. Please contact BlueLinx.

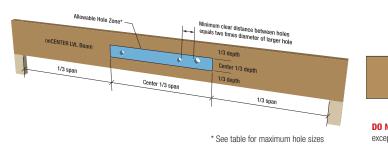
6. Carriage bolts (1/2" diameter) may be used for through bolts. Carriage

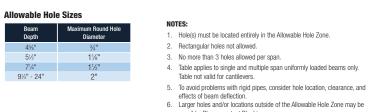
8. WS and WSWH structural screws are produced by MiTek USA, Inc. SDS and SDW structural screws are produced by Simpson Strong-Tie® Company, Inc. FlatLOK® and TrussLOK® structural screws are produced by FastenMaster-OMG, Inc. Install screws per manufacturers' guidelines.

Graphic above shows 2 rows of nails	s applied to both fa	ces.				
Fastener Type	LVL Depth	Fastener Rows	Fastener Spacing	3½" Wide (2-ply 1¾")	5¼" Wide (3-ply 1¾")	7" Wide (4-ply 1¾")
16d Nails	7¼" - 11¾"	2 (shown)	12"			Not Permitted
Pneumatic (0.131" x 3.5") or Common (0.162" x 3.5")	14" - 18"	3	12"			
	24"	4	12"			
1/2" Through Bolts	7¼" - 18"	2 (shown)	24"			
1/2 Tillough Dollo	24"	3	24"			
				3½" Screw Length	3½" Screw Length	6" Screw Length
WS or SDS Screws	7¼" - 18"	2 (shown)	24"		-	
	24"	3	24"			
				3%" - 3½" Screw Length	5" Screw Length	6¾" Screw Length
SDW22, WSWH, FlatLOK, or TrussLOK Screws	71/4" - 18"	2	24"			
	24"	3 (shown)	24"			

Where fasteners are shown from both sides, fastener schedules must be repeated on each face, with fasteners on back face offset one-half the indicated spacing from front face.

ALLOWABLE HORIZONTAL HOLES IN onCENTER LVL













possible. Please contact BlueLinx.

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