



STORAGE & HANDLING

Protected from moisture and weather. Keep covered with factory wrap until time of use. Store on dry level ground using stacked support blocks 10' on-center to transfer load off the ground and to allow air circulation.

DO NOT store BLU joists flat. onCENTER™™, and rim board should be stacked flat.

DO NOT lift BLU joists by top flange with forklift.

DO NOT lift BLU joists flatwise.

SAFETY PRECAUTIONS

Use safety glasses, gloves, hard hats, and other personal protective equipment when handling and installing onCENTER engineered lumber. Contact BlueLinX for MSDS information.

DO NOT walk on onCENTER engineered lumber that is lying flat.

DO NOT stack building materials on unbraced joists. Stack only over bearing walls or main beams.

DO NOT use damaged products.

BRACING REQUIREMENTS

DO NOT allow workers or loads on engineered lumber joists until properly installed and braced.

- Joists are unstable until properly attached and braced laterally. Failure to provide stability can result in serious accidents.
- Restrain joists and beams from rotation at the end supports by use of blocking, gables, a bracing, or continuous diaphragm bracing, rim joist or structural purlin.
- Install all fasteners in each joint, beam, hanger, blocking, panel, a bracing, or continuous diaphragm 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.
- Rows of members 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 1" x 4" all along the top face of the joist with a minimum of two 8d nails (16d if bracing is 2x4). Ends of bracing should overlap at least two joists.
- Ends of gables/eyer tie temporary bracing on both the top and bottom flanges.
- Sheathing must be completely attached to each BLU joist before additional loads can be placed on the system.
- Joist flanges must remain straight within 1/8" of true alignment.

INSTALLATION NOTES

- BlueLinX onCENTER products must be protected from weather and used only in covered, dry-use conditions (moisture content of engineered lumber must not be less than 16%).
- Engineered lumber must not be installed in direct contact with masonry or concrete.
- BLU 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 cap, or by toe-nailing into a beam or ledger.
- For BLU joists, maximum end bearing lengths is 3'-10", minimum intermediate bearing length is 5'-0".
- When nailing to the side face of BLU joists, maintain spacing within the following ranges:

Joist Depth	Single Span Spacing			
	12" o.c.	16" o.c.	24" o.c.	32" o.c.
BLU 40	1'-0"	1'-0"	1'-0"	1'-0"
BLU 40	1'-0"	1'-0"	1'-0"	1'-0"
BLU 60	1'-0"	1'-0"	1'-0"	1'-0"
BLU 60	1'-0"	1'-0"	1'-0"	1'-0"
BLU 80	1'-0"	1'-0"	1'-0"	1'-0"
BLU 80	1'-0"	1'-0"	1'-0"	1'-0"
BLU 100	1'-0"	1'-0"	1'-0"	1'-0"
BLU 100	1'-0"	1'-0"	1'-0"	1'-0"
BLU 120	1'-0"	1'-0"	1'-0"	1'-0"
BLU 120	1'-0"	1'-0"	1'-0"	1'-0"
BLU 140	1'-0"	1'-0"	1'-0"	1'-0"
BLU 140	1'-0"	1'-0"	1'-0"	1'-0"
BLU 160	1'-0"	1'-0"	1'-0"	1'-0"
BLU 160	1'-0"	1'-0"	1'-0"	1'-0"
BLU 180	1'-0"	1'-0"	1'-0"	1'-0"
BLU 180	1'-0"	1'-0"	1'-0"	1'-0"
BLU 200	1'-0"	1'-0"	1'-0"	1'-0"
BLU 200	1'-0"	1'-0"	1'-0"	1'-0"
BLU 240	1'-0"	1'-0"	1'-0"	1'-0"
BLU 240	1'-0"	1'-0"	1'-0"	1'-0"

NOTES:

- When nailing from one side of joist or beam, nails must be placed at 16" o.c. along the length of the joist or beam. For double nailing, the 16" o.c. spacing must be maintained for the full length of the joist or beam.
- Do not cut joists longer than those shown on the engineering drawings for BLU joists.
- Maximum bearing length: 10" end, 30" intermediate.
- For multiple-span joists, end spans must be at least 40% of adjacent span.
- Tabled spans may include continuous spans with a single change of span conditions. Beams under end reaction span support require larger spans. Larger spans may be possible by analyzing a specific span condition and using bearing stiffeners. Check with onCENTER™™ software.
- For loading other than that shown above, refer to Uniform Load Tables in the onCENTER™™ Product Guide, use onCENTER™™ Snow Software or Engineer Lumber™™ Service Tables.

INSTALLATION CAUTIONS

DO NOT support BLU joist by top flange of wall.

DO NOT violate hole table rules.

DO NOT bore out BLU joist just face of wall. See detail F8.

DO NOT bore out bottom flange at high end of roof joist. See roof detail F2.

DO NOT cut or notch flanges for cutting to fit and for end-cuts (root detail F6).

FLOOR SPANS

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

Joist Depth	Span	Simple Span				Multiple Span			
		12" o.c.	16" o.c.	24" o.c.	32" o.c.	12" o.c.	16" o.c.	24" o.c.	32" o.c.
BLU 40	12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 40	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 40	16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 40	18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 40	20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 60	12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 60	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 60	16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 60	18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 60	20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 80	12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 80	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 80	16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 80	18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 80	20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 100	12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 100	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 100	16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 100	18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 100	20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 120	12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 120	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 120	16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 120	18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 120	20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 140	12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 140	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 140	16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 140	18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 140	20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 160	12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 160	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 160	16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 160	18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 160	20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 180	12'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 180	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 180	16'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 180	18'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
BLU 180	20'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"

NOTES:

- Spans are maximum clear distance between spans, based on uniform loads.
- Live load deflection is limited to L/480; providing joists that are one-third other than required. Spacing between joists that exceed the table spacing is not allowed. Live load deflection of 1/800 may not meet the occupant's expectations for floor performance. Refer to the onCENTER™™ Product Guide for more information.
- Spans are based on composite action with 1/2" thick 40# Reinforced Concrete or 3/4" Floor Slab on Reinforced Concrete. Refer to the onCENTER™™ Product Guide for more information.
- For loading other than that shown above, refer to Uniform Load Tables in the onCENTER™™ Product Guide, use onCENTER™™ Snow Software or Engineer Lumber™™ Service Tables.
- Maximum bearing length: 10" end, 30" intermediate.
- For multiple-span joists, end spans must be at least 40% of adjacent span.
- Tabled spans may include continuous spans with a single change of span conditions. Beams under end reaction span support require larger spans. Larger spans may be possible by analyzing a specific span condition and using bearing stiffeners. Check with onCENTER™™ software.
- For loading other than that shown above, refer to Uniform Load Tables in the onCENTER™™ Product Guide, use onCENTER™™ Snow Software or Engineer Lumber™™ Service Tables.

onCENTER FRAMING SYSTEMS

F1 ATTACHMENT AT END BEARINGS

F2 BLOODING PANEL EXTERIOR

F3 BLU RIM JOIST / onCENTER JOIST

F4 SQUARE BLOCKS AT WALLS

F5 onCENTER RIM BOARD CLOSURE

F6 DECK ATTACHMENT TO RIM BOARD

F7 BLOODING PANEL USED FOR BRACING

F8 BEVEL END JOIST

F9 BLOODING PANEL INTERIOR

F10 SQUARE BLOCKS AT INTERIOR BEARING

F11 DOUBLE JOIST CONSTRUCTION WITH FILLER

F12 FLOOR OPENING, RIM JOIST HANGERS

F13 FLOOR OPENING, FACE JOIST HANGERS

F14 STAR STRINGER JOINT CONNECTION

F15 JOIST TO BEAM CONNECTION

F16 JOIST TO BEAM CONNECTION, STEP DOWN

F17 JOIST TO DROPPED BEAM CONNECTION, STEP DOWN

F18 BEARING STIFFENERS

F19 SQUARE BLOCKS AT CONCENTRATED LOADS

F20 WEB STIFFENERS

F21 FLOOR PERFORMANCE ENHANCERS

C1 CANTILEVER, REINFORCED

C2 CANTILEVER, REINFORCED

C3 CANTILEVER, REINFORCED

C4 CANTILEVER, REINFORCED

C5 CANTILEVER, DROPPED

F1 JOIST SPACING BELOW FINISHING WALL

F2 JOIST SPACING BELOW PLUMBING FIXTURES

R1 UPPER END BEARING ON WALL

R2 INTERMEDIATE BEARING

R3 JOISTS ON BEVELLED PLATE

R4 BRESMOUTH CUT

R7 ROOF OPENING, FACE JOIST HANGERS

R8 REVEALED END JOIST CONNECTION

R9 OVERHANG PARALLEL TO JOIST

R10 OVERHANG PARALLEL TO JOIST

R11 ROOF OPENING WITH PERMITTED VENTILATION

HOLES

ALLOWABLE HOLE LOCATION FOR BLU 40 (Simple or Multiple Span)

ALLOWABLE HOLE LOCATION FOR BLU 60, 80, 90, 700, and 900 (Simple or Multiple Span)

onCENTER LVL BEARING DETAILS

B1 BEARING ON WALL

B2 BEARING ON CONCRETE WALL

B3 BEAM-TO-BEAM CONNECTION

B4 BEARING ON COLUMN

B5 BEAM-TO-COLUMN LATERAL BRACE

B6 BEARING FOR DOOR OR WINDOW HEADER

B7 HIGH END HIP BEARING

B8 LOW END HIP BEARING

B9 NOTCHING / SEAT CUT

MULTIPLE-PLY LVL FASTENING GENERAL NOTES

ALLOWABLE HORIZONTAL HOLES IN onCENTER LVL

ALLOWABLE HORIZONTAL HOLES IN onCENTER LVL

ALLOWABLE HOLE SIZES

GENERAL

INSTALLATION

LIMITATION OF LIABILITY

BlueLinX™
BlueLinX Engineered Products

BlueLinX Corporation
4300 Wildwood Parkway
Atlanta, GA 30339
1-877-914-7170
www.bluecenter.com

BlueLinX

BlueLinX is a registered trademark, onCENTER and onCENTER are trademarks, and BLUELINX and the BLUELINX design are trademarks and registered service marks of BlueLinX Services, Inc. APA RATED and STURCO FLOOR are registered trademarks of APA - The Engineered Wood Association. TRUSS, ON and FASTENBLOC are registered trademarks of Simpson Strong-Tie Co. SIMPSON STRONG-TIE is a registered trademark of Simpson Strong-Tie Company, Inc. U.S. STRUCTURAL CONNECTORS is a trademark of United Steel Products Company.

©2015 BlueLinX Corporation. All rights reserved.
Printed in the U.S.A. on recycled paper, 1/13 LVL Rev. 01/15

