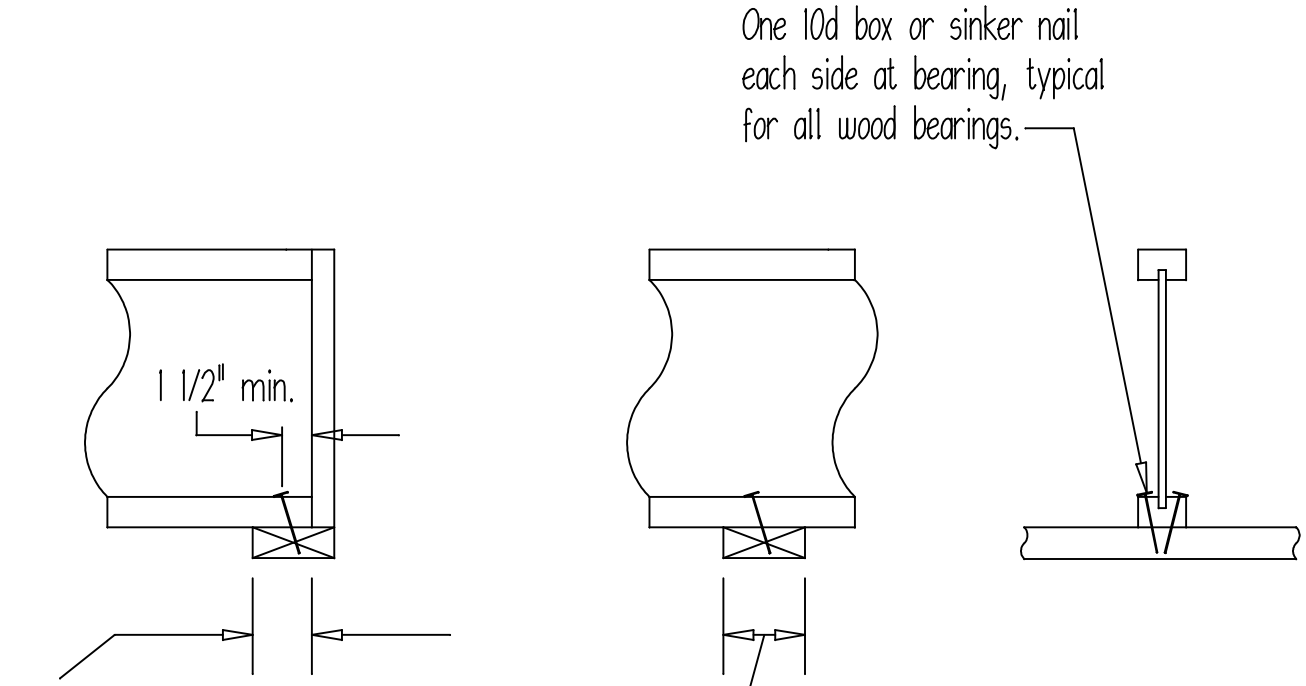
F1 ATTACHMENT AT BEARING



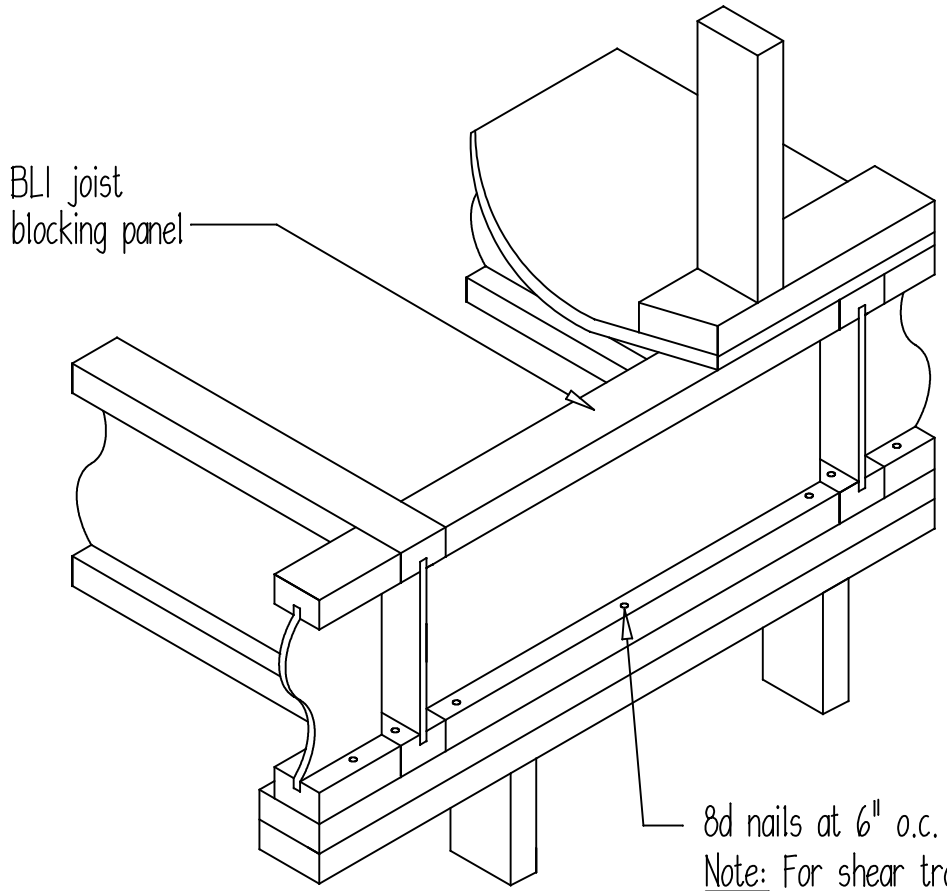
1 3/4" minimum end bearing length for all floor & roof details. Longer bearing lengths may be indicated on the placement plan.

3 1/2" minimum interior bearing length for all floor & roof details. Longer bearing lengths may be indicated on the placement plan.

To minimize splitting of flange and bearing plate, angle nails and start at least 1 1/2" from end.

F2 BLOCKING PANEL, EXTERIOR

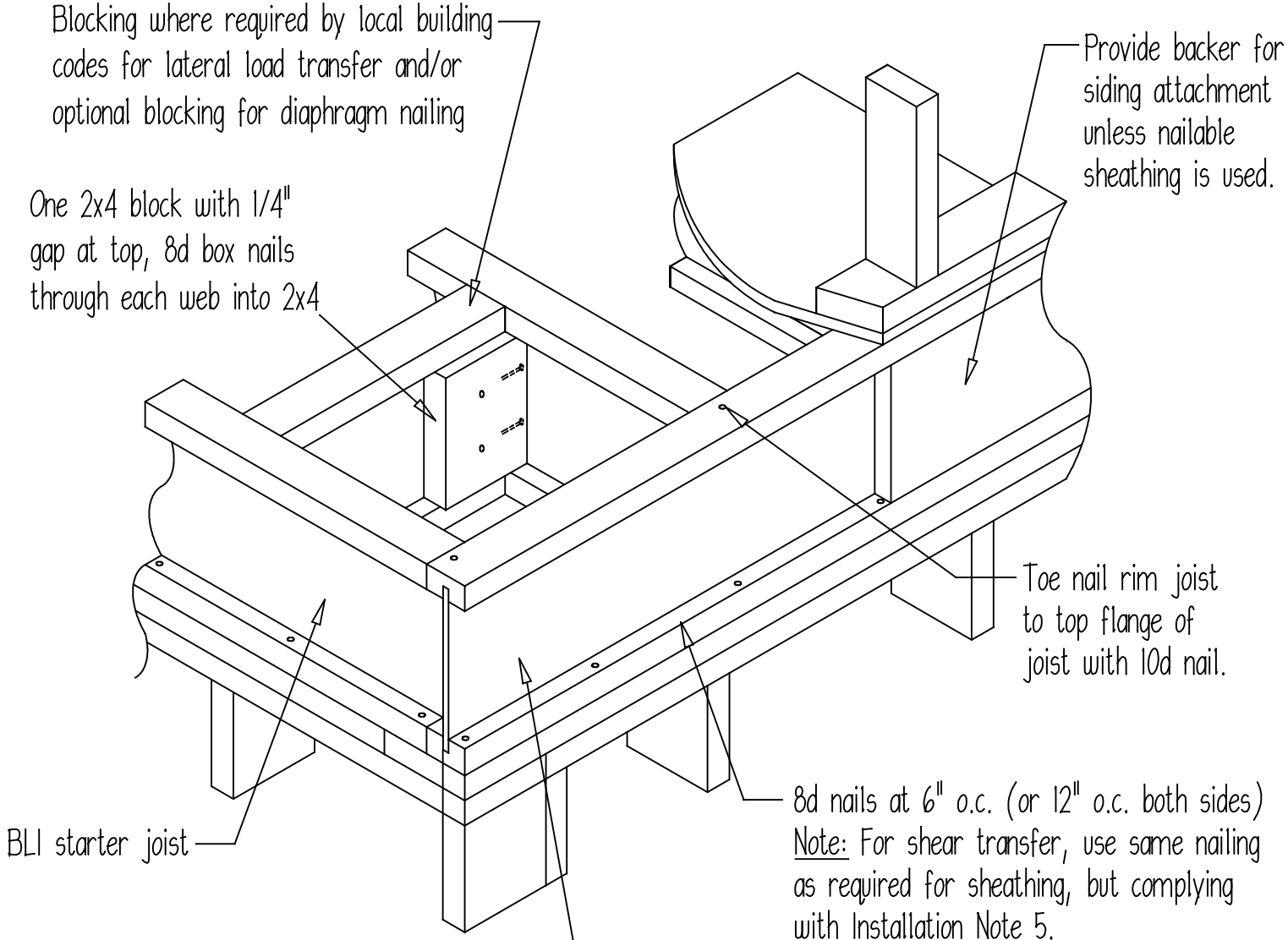
Vertical load transfer = 2000 plf max. (18" - 1810 plf)



Note: For shear transfer, use same nailing as required for sheathing, but complying with Installation Note 5.

F3 BLI RIM JOIST / STARTER JOIST

Vertical load transfer = 2000 plf max. (18" - 1810 plf)

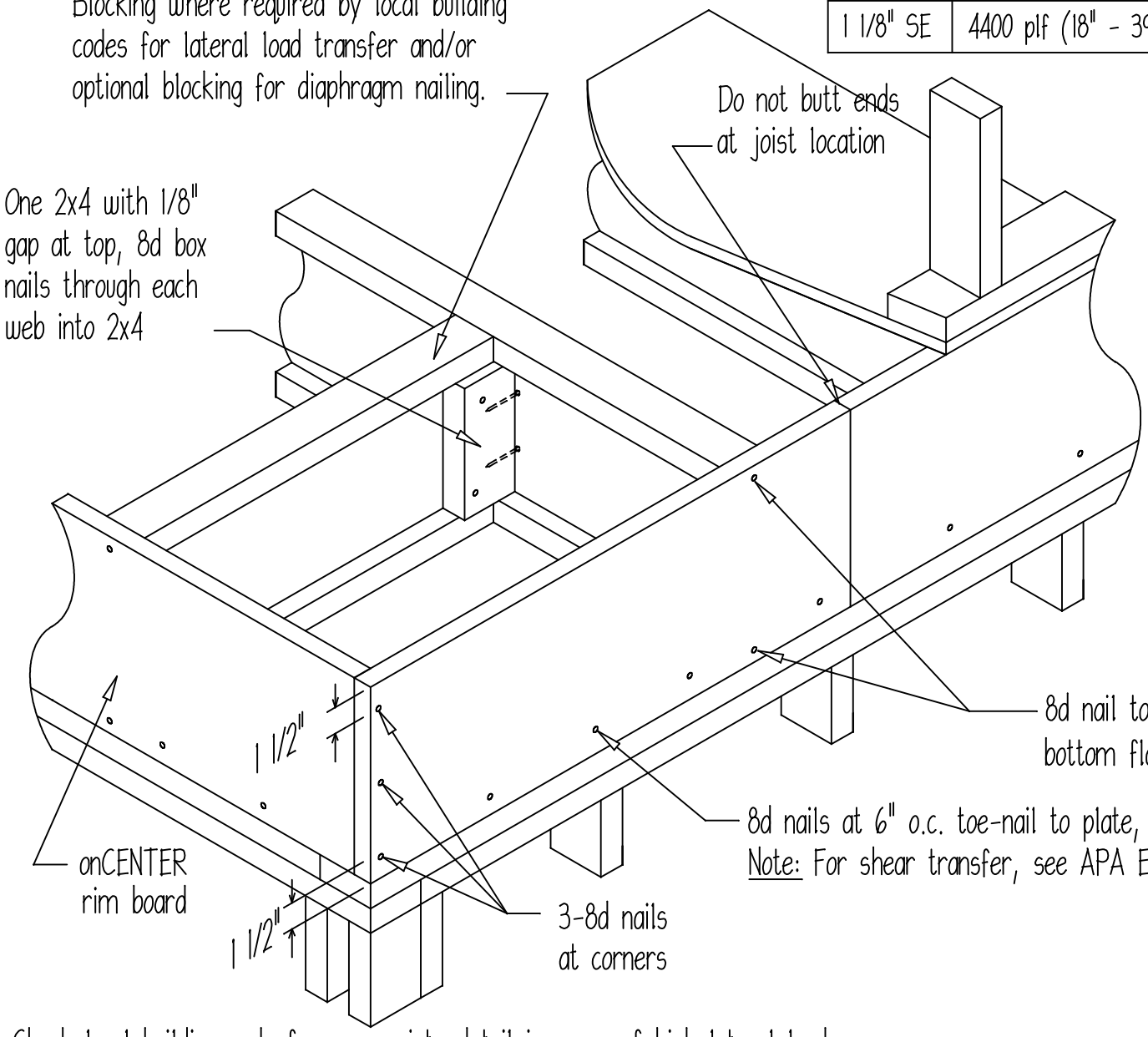


Note: Minimum 1 3/4" bearing length for all BLI joists

F5 onCENTER RIM BOARD CLOSURE

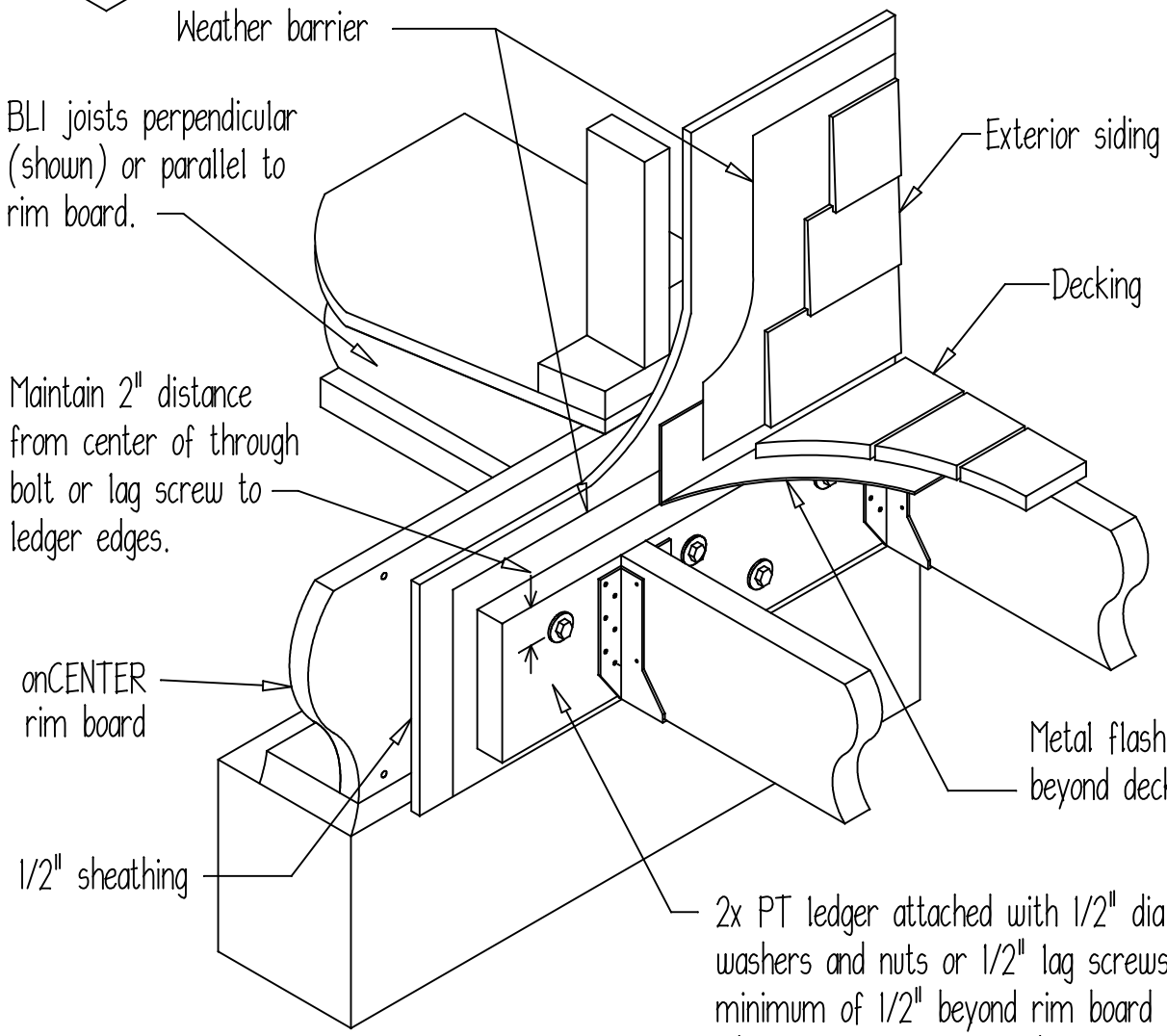
Vertical load transfer = 4850 plf

Rim Board	Vertical Load Transfer
1" SE	3300 plf (18" - 2750 plf)
1 1/8" SE	4400 plf (18" - 3950 plf)



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

F6 DECK ATTACHMENT TO RIM BOARD

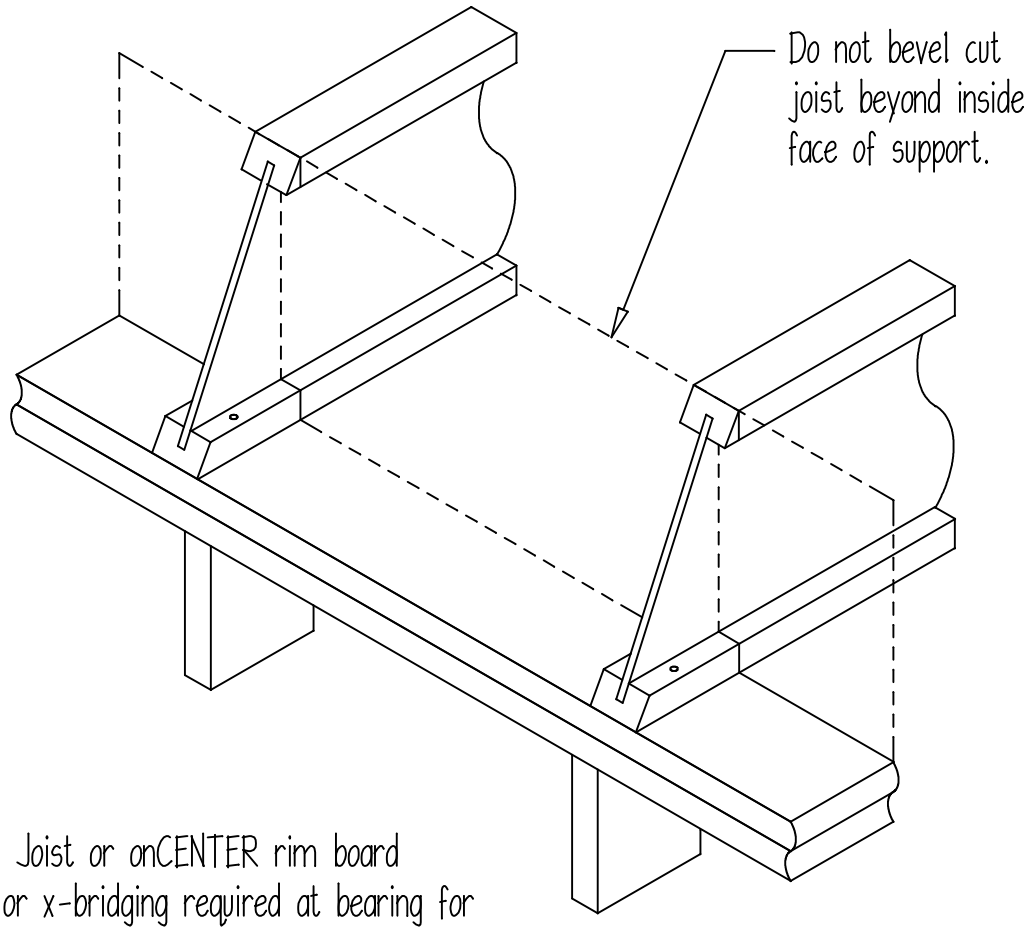


CAUTION: Insert lag screw in lead hole by turning with a wrench, not by driving with a hammer. Avoid over-torquing, which can significantly reduce lateral resistance of screw.

2x PT ledger attached with 1/2" dia. through bolts with washers and nuts or 1/2" lag screws with tip extending a minimum of 1/2" beyond rim board (see Installation Note 11). Capacity is 350 lbs. (300 lbs. for 1" SE rim board) per fastener. Bolt/lag screw spacing to be determined by design vertical and lateral load. Use high quality caulk to fill holes and seal flashing.

Additional lateral load connections may be required. See R507 (IRC 2012-2021) and WIJMA Deck Lateral Load Connection.

F8 BEVEL CUT JOIST



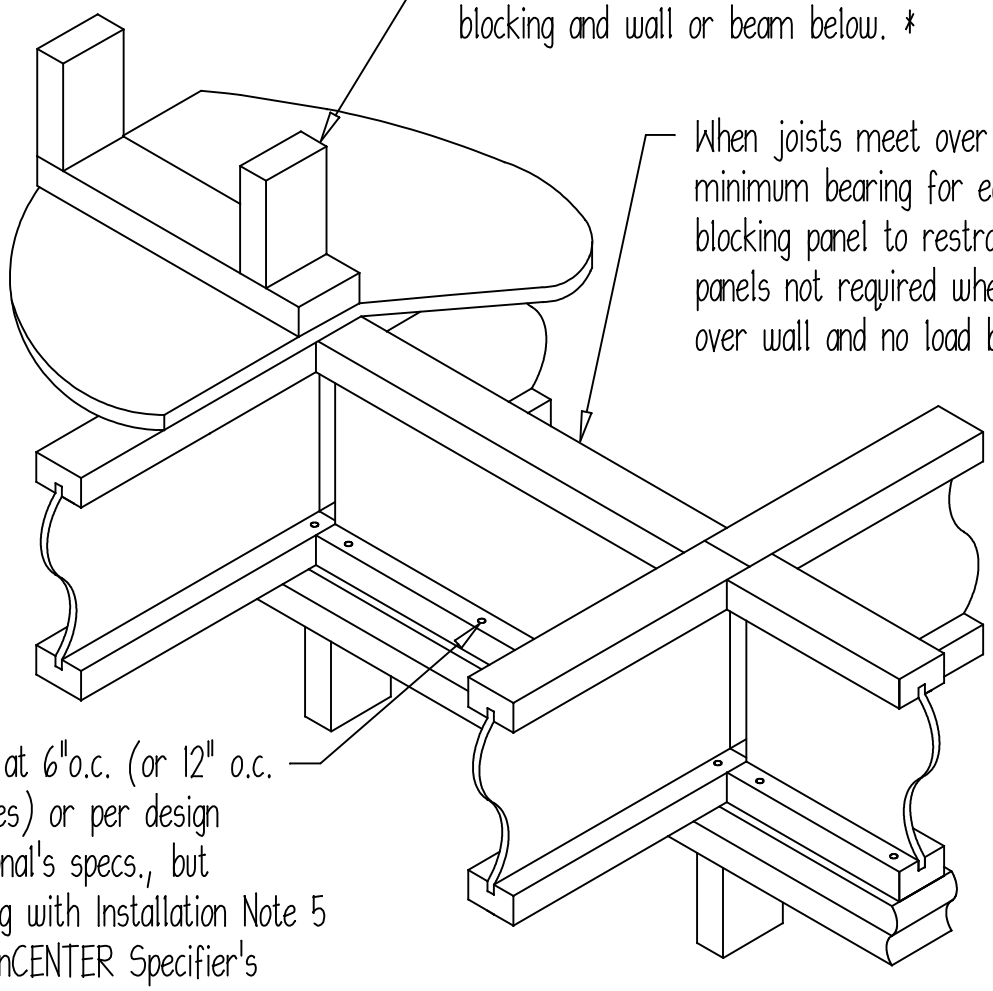
Note: BLI Joist or onCENTER rim board blocking, or x-bridging required at bearing for lateral support.

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

F9

BLOCKING PANEL, INTERIOR

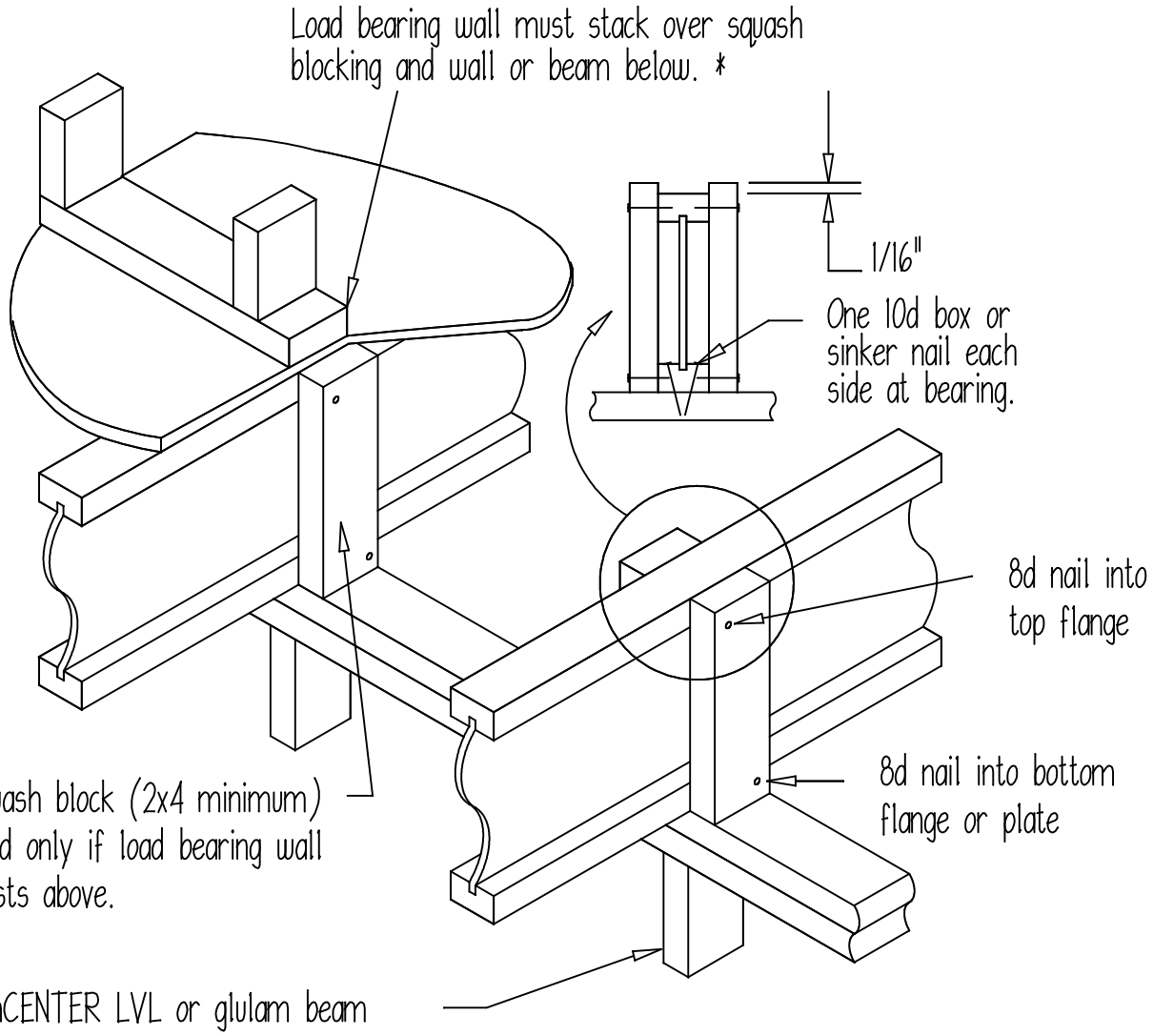
Vertical load transfer = 2000 plf max. (18" - 1810 plf)



* Non-stacking load bearing walls require additional consideration.

F10 SQUASH BLOCKS AT INTERIOR BEARING

Vertical load transfer = 2000 plf max along load bearing wall.



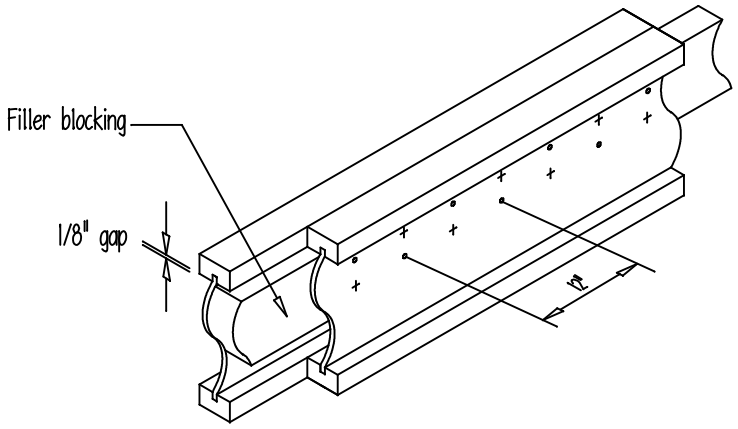
* Non-stacking load bearing walls require additional consideration.

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

F11 DOUBLE JOIST CONSTRUCTION WITH FILLER

Note: Filler blocks and fastening between joists can be omitted when double joists are loaded evenly from above to the tops of both joists, such as when a parallel bearing wall is directly centered over the double joist.

BLI Joist		Regular Filler Blocking (Detail F12)	Full-depth Filler Blocking (Details C4, F13, F14 & R7)
Series	Depth		
700	11 7/8"	2x6 + 3/8" OSB/Plywood	2x8 + 3/8" OSB/Plywood
	14"	2x8 + 3/8" OSB/Plywood	2x10 + 3/8" OSB/Plywood
	16"	2x8 + 3/8" OSB/Plywood	2x12 + 3/8" OSB/Plywood
40	9 1/2"	2x6 + 5/8" OSB/Plywood	2x6 + 5/8" OSB/Plywood
40, 60	11 7/8"	2x6 + 5/8" OSB/Plywood	2x8 + 5/8" OSB/Plywood
	14"	2x8 + 5/8" OSB/Plywood	2x10 + 5/8" OSB/Plywood
	16"	2x8 + 5/8" OSB/Plywood	2x12 + 5/8" OSB/Plywood
65, 80, 90, 900	11 7/8"	2-2x8	2-2x8
	14"	2-2x8	2-2x10
	16"	2-2x8	2-2x12
80, 90	18"	2-2x8	2-2x12

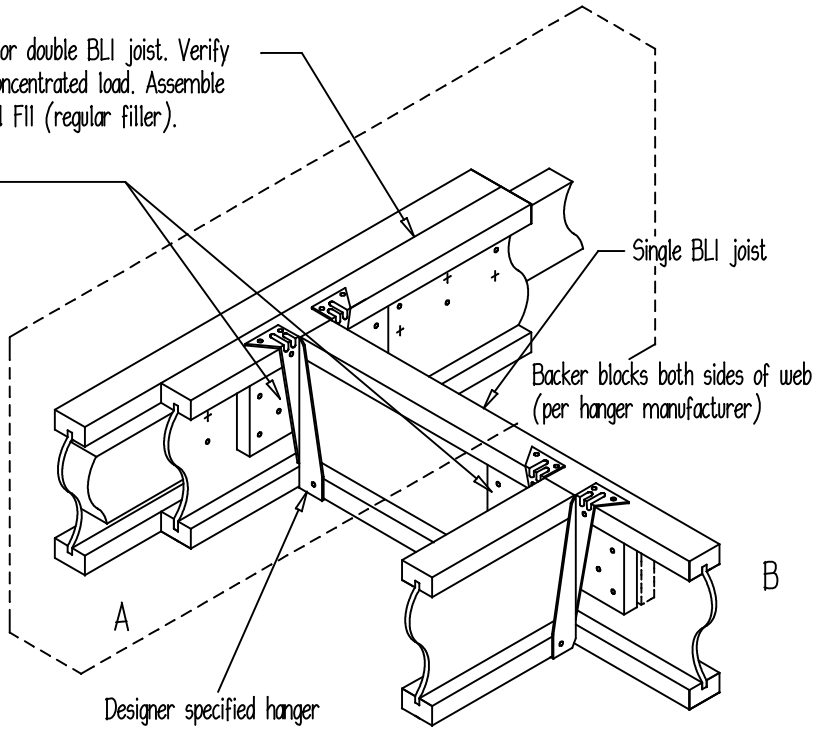


1) Support back of web during nailing to prevent damage to web-flange connection.
2) Leave 1/8" gap between top of filler blocking and bottom of top flange.
3) Block solid between joists. For all applications except cantilever reinforcement, filler need not be one continuous length, but must extend the entire length of span. For double I-joist cantilever reinforcement C4, filler must be one continuous piece extending the full length of the reinforcement.
4) Place joists together and nail from each side with 2 rows of 10d common nails (16d common for BLI 65, BLI 80, BLI 90 and BLI 900) at 12" o.c. Offset rows on opposite side 6".

F12 FLOOR OPENING, TOP MOUNT HANGERS

Header can be single or double BLI joist. Verify capacity to support concentrated load. Assemble double joist per detail F11 (regular filler).

Backer block (use if hanger load exceeds 250 lbs.)
Before installing backer to double joist, drive an additional 4-10d common nails through web into filler where backer will fit. Repeat on back side of double joist. Install backer tight to top flange. Use 8-10d common nails (15-10d common nails for BLI 65, 80, 90, 700 and 900 series joists). Stagger nails to avoid splitting. Clinch nails when possible.



Backer blocks *

Joist Series	Material
BLI 700	7/8"
BLI 40, 60	1/2" + 1/2"
BLI 65, 80, 90, 900	1 1/2"

Joist Depth	Block Depth
9 1/2", 11 7/8"	5 1/2"
14" - 18"	7 1/4"

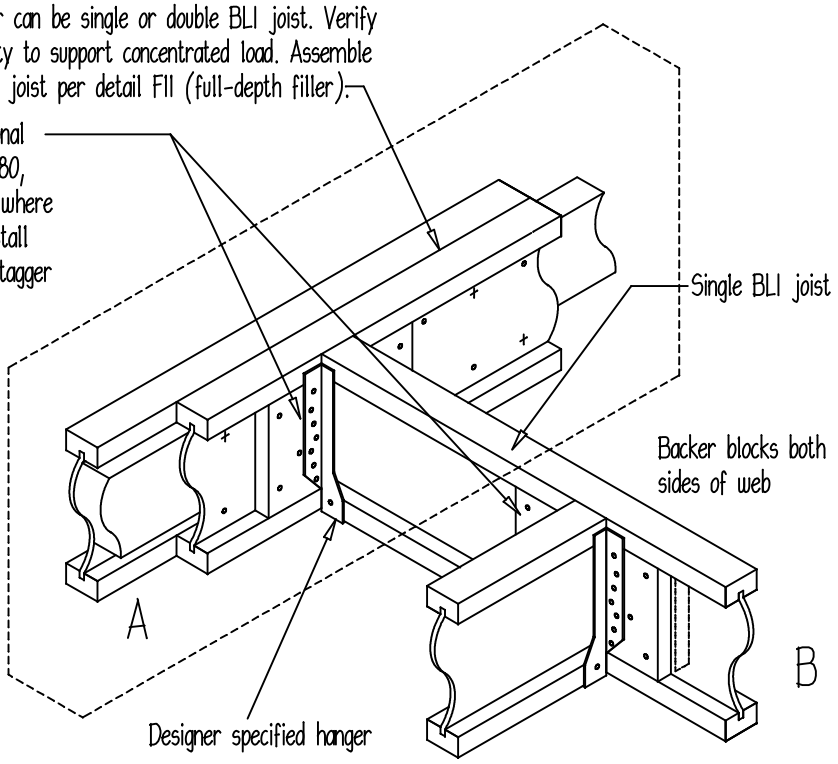
* Block centered on hanger location.
Minimum length 24".

F13 FLOOR OPENING, FACE MOUNT HANGERS

Header can be single or double BLI joist. Verify capacity to support concentrated load. Assemble double joist per detail F11 (full-depth filler).

Backer Block

Before installing backer to double joist, drive an additional 7-10d common nails (4-10d common nails for BLI 65, 80, 90, 700 and 900 series joists) through web into filler where backer will fit. Repeat on back side of double joist. Install backer tight to top flange. Use 18-10d common nails. Stagger nails to avoid splitting. Clinch nails when possible.



Backer blocks *

Joist Series	Material
BLI 700	7/8"
BLI 40, 60	1/2" + 1/2"
BLI 65, 80, 90, 900	1 1/2"

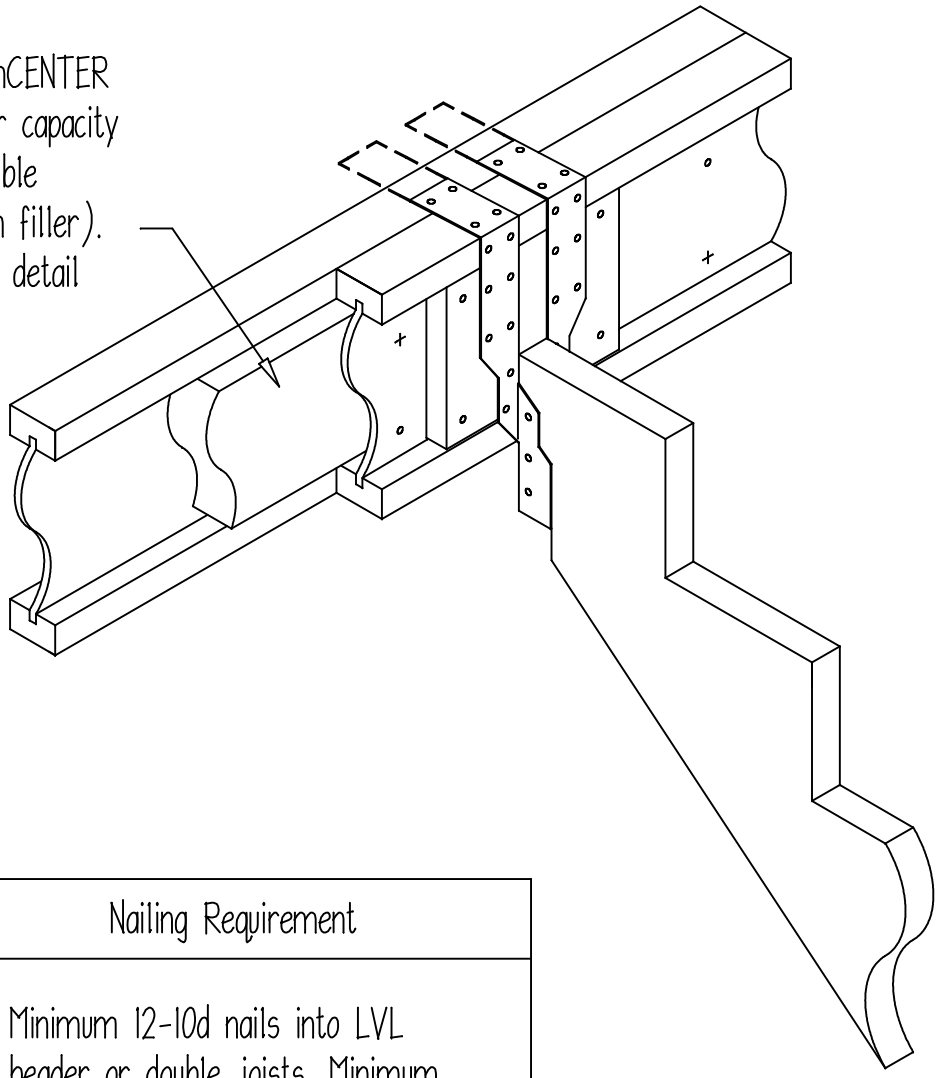
Joist Depth	Block Depth
9 1/2"	6 1/4"
11 7/8"	8 5/8"
14"	10 3/4"
16"	12 3/4"
18"	14 3/4"

* Blocking centered on hanger location. Minimum length 24".

Unless hanger sides laterally restrain top flange, bearing stiffeners are required at hangers (see detail F18).

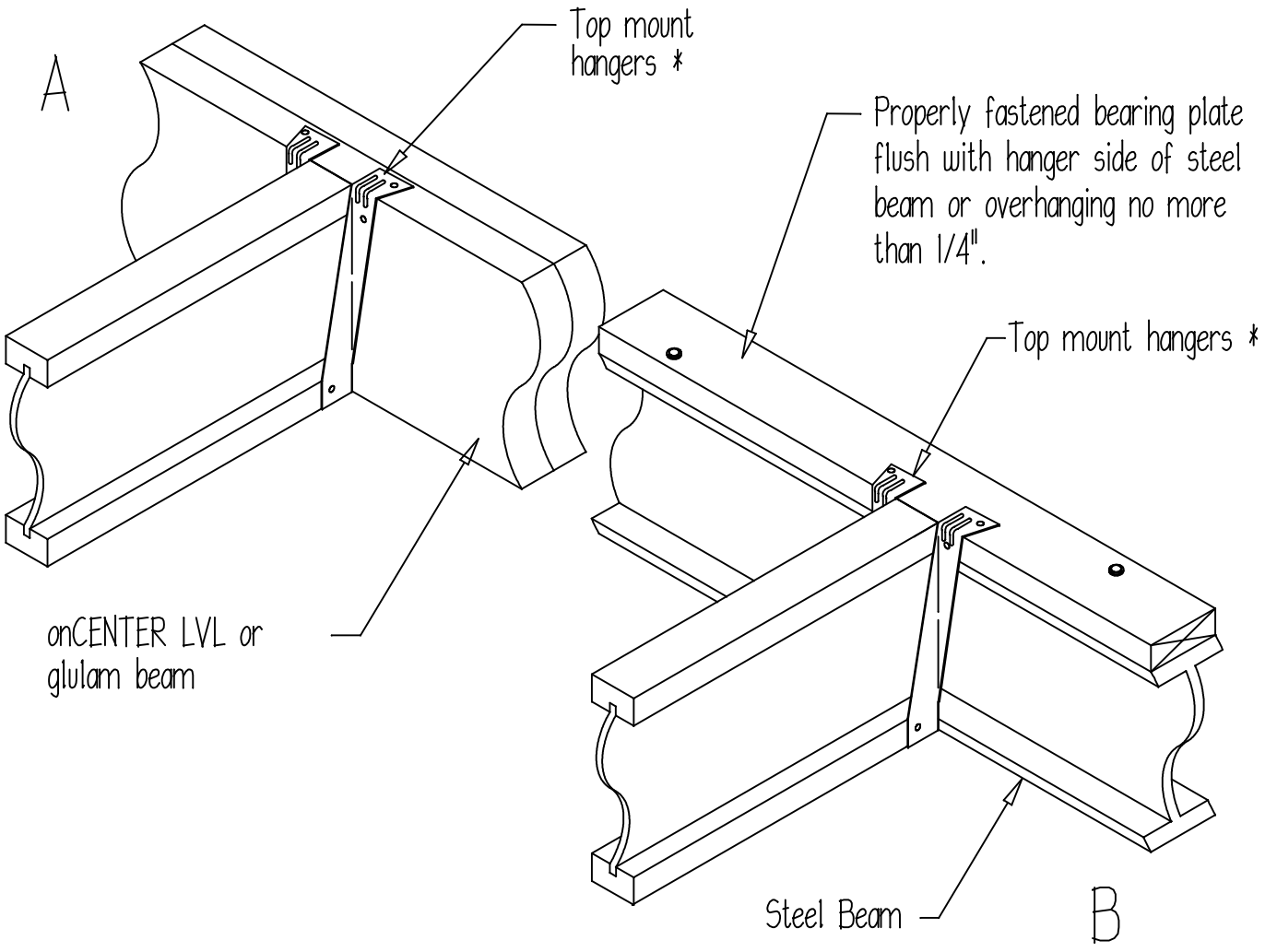
F14 STAIR STRINGER TO JOIST CONNECTION

Double BLI joist shown as header. onCENTER LVL may also be used. Verify header capacity to support concentrated loads. Assemble double joist per detail F11 (full depth filler). Backer block size and installation per detail F13.



Hangers	Nailing Requirement
USP MSH218 or Simpson Strong-Tie® THA218	Minimum 12-10d nails into LVL header or double joists. Minimum 4-10d x 1 1/2" nails into stringer.
For stringers longer than 14' or stringer reactions exceeding 700 lbs., call BlueLinx.	

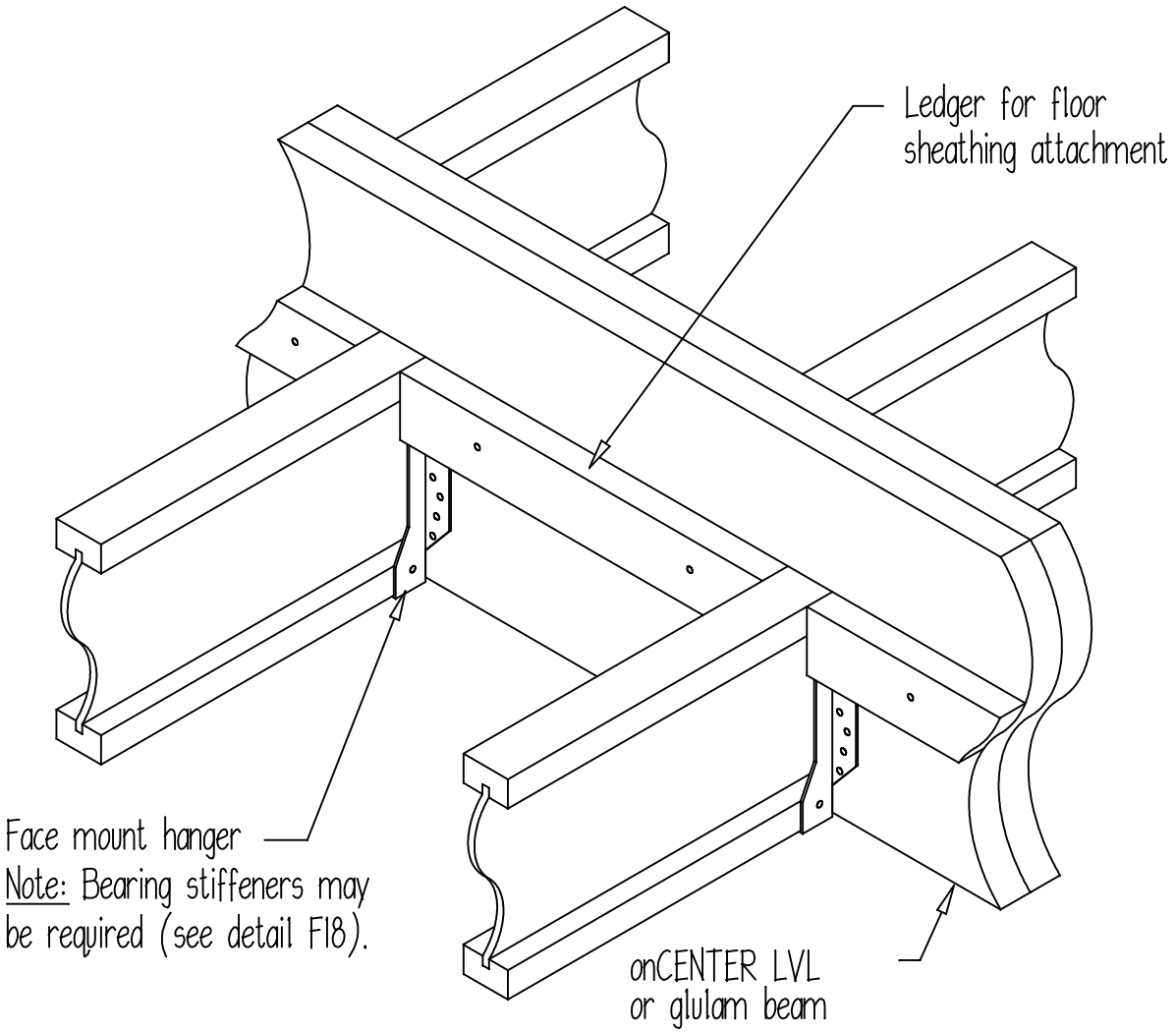
F15 JOIST TO BEAM CONNECTION



Bearing stiffeners may be required at hangers (see detail F18).

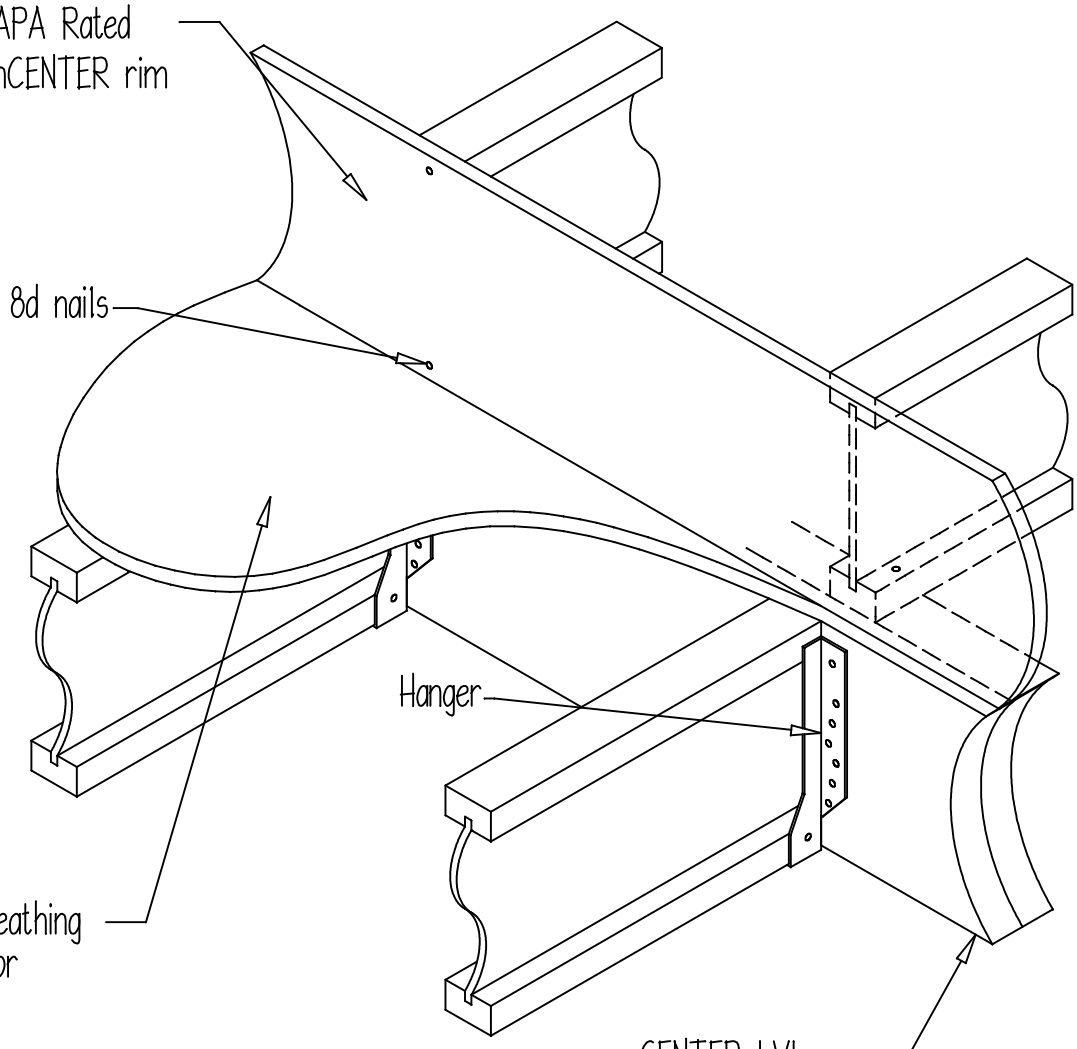
* Appropriate face mount hanger may be substituted, but 'B' requires solid wood blocking properly attached to the steel beam.

F16 JOIST TO BEAM CONNECTION, STEP DOWN



F17 JOIST TO DROPPED BEAM CONNECTION, STEP DOWN

Bearing stiffeners may be required at hangers (see detail F18).

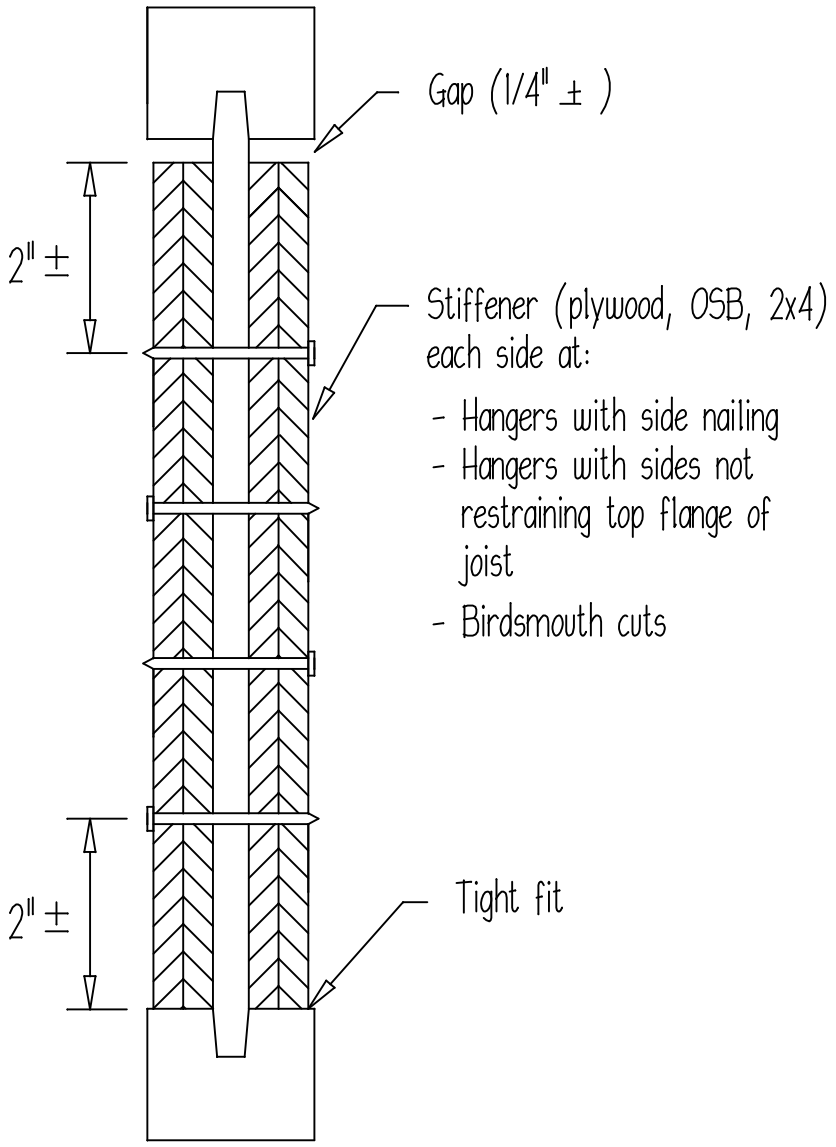


BLI blocking panels may be required for braced wall applications.

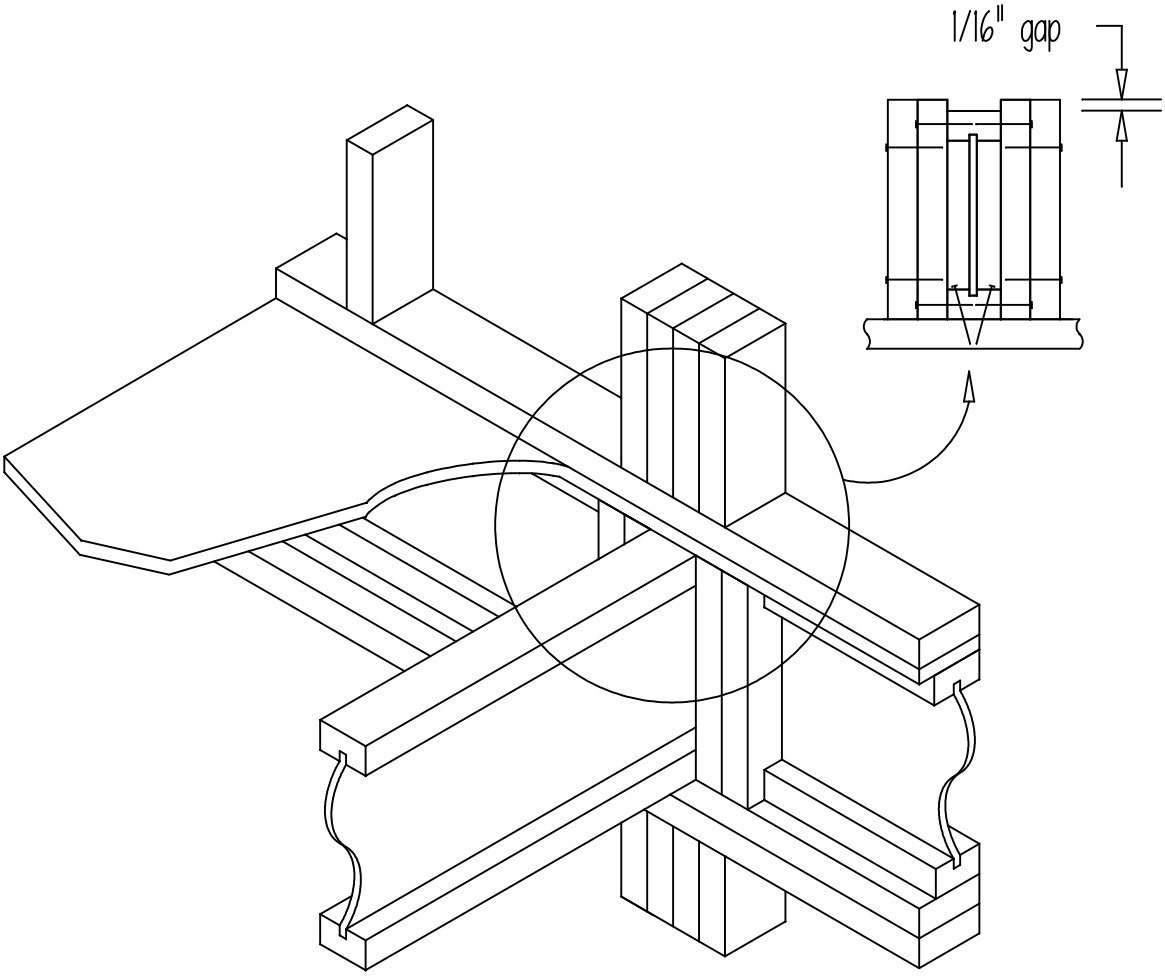
F18 BEARING STIFFENERS

Joist Series	Stiffener Material	Nails
BLI 40, 60, 700	1/2" + 1/2"	4-8d *
BLI 65, 80, 90, 900	1 1/2"	4-10d *

Minimum stiffener width is 2 5/16".
* Use 6 nails for 18" joists.

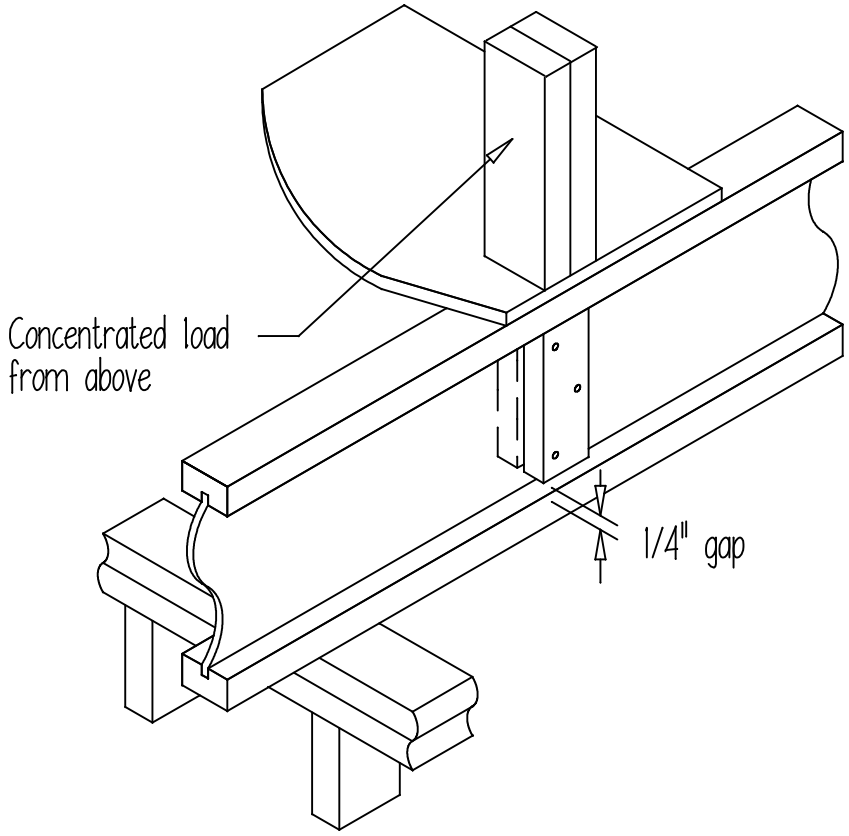


F19 SQUASH BLOCKS AT CONCENTRATED LOADS



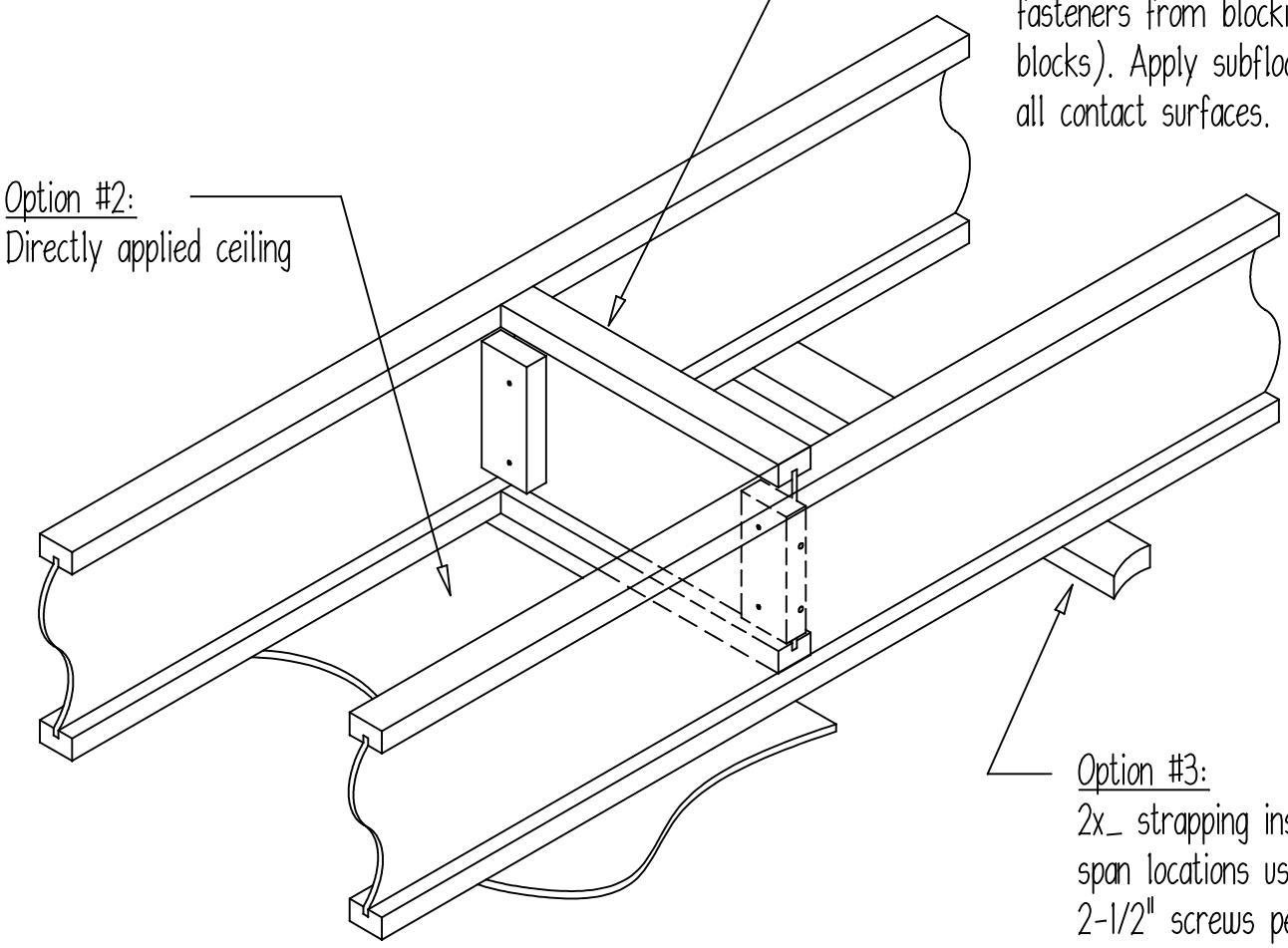
Solid block all posts from above to bearing below
with equal number of squash blocks

F20 WEB STIFFENERS



Stiffeners are required for concentrated loads exceeding 1500 lbs. I-joists must be sized to support all applied loads. Install stiffeners per detail F18 but tight against top flange and gap at bottom.

F21 FLOOR PERFORMANCE ENHANCERS



Option #1:
Blocking panel with end blocks installed at 1/3 span locations using #8 x 2" screws (two fasteners from joist web into blocks, two fasteners from blocking panel into blocks). Apply subfloor adhesive to all contact surfaces.

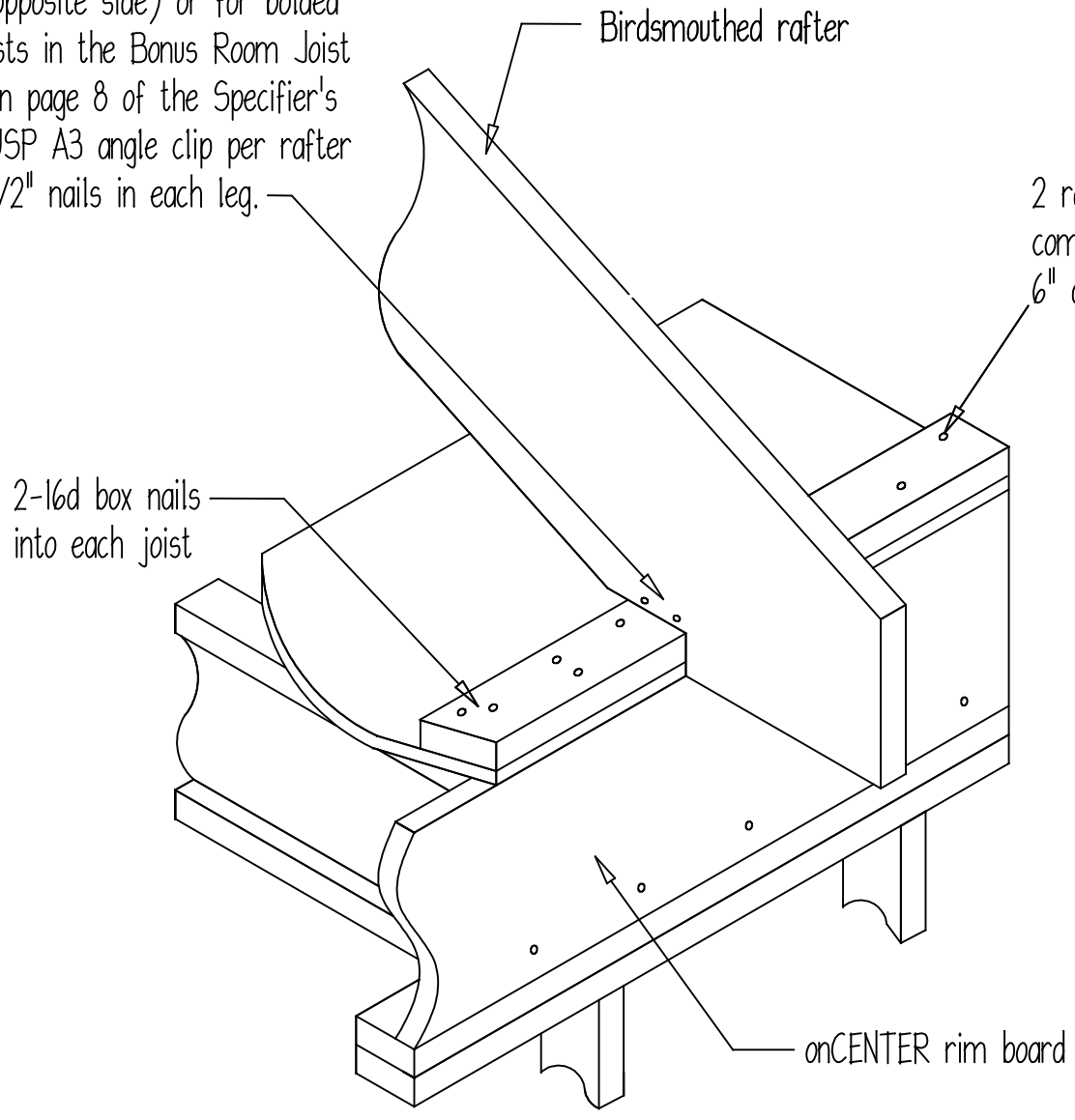
Option #2:
Directly applied ceiling

Option #3:
2x_ strapping installed at 1/3 span locations using two 2-1/2" screws per joist

F22 RAISED RAFTER BEARING

Bonus room floors only, Specifier's Guide page 8

3-16d box nails toe nailed (two from one side, one from opposite side) or for bolded and italicized joists in the Bonus Room Joist Selection table on page 8 of the Specifier's Guide, use one USP A3 angle clip per rafter with 4-10d x 1 1/2" nails in each leg.

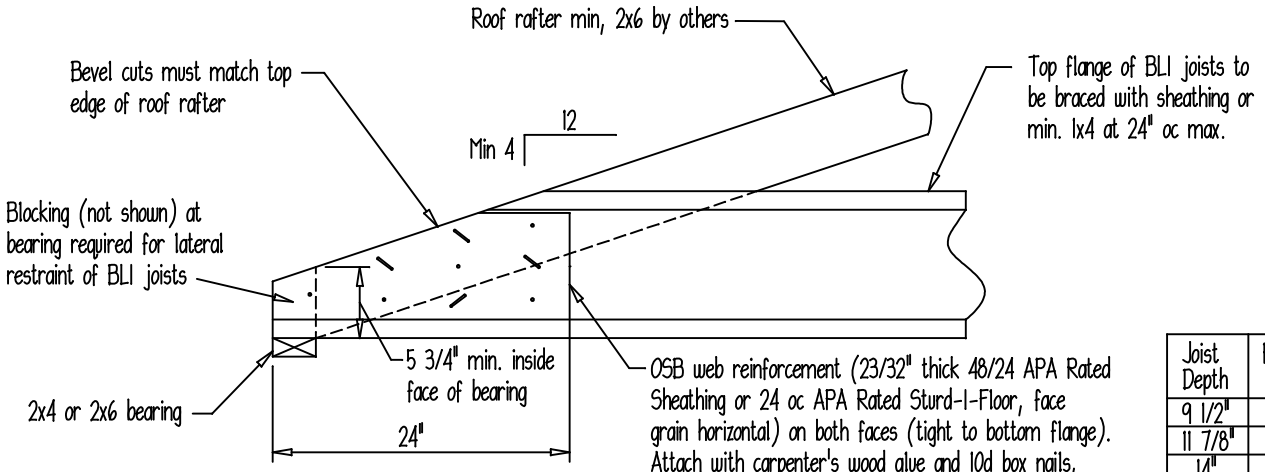


Additional uplift connections may be required.

F23 TAPER CUT REINFORCEMENT

Restores full shear & reaction capacity

Note: BLI joist not to act as rafter tension tie



Joist Depth	Reinforcement Height	Nail Quantity
9 1/2"	5 3/4"	6
11 7/8"	7 3/4"	10
14"	9 1/4"	12
16"	11 3/4"	14
18"	14"	18