

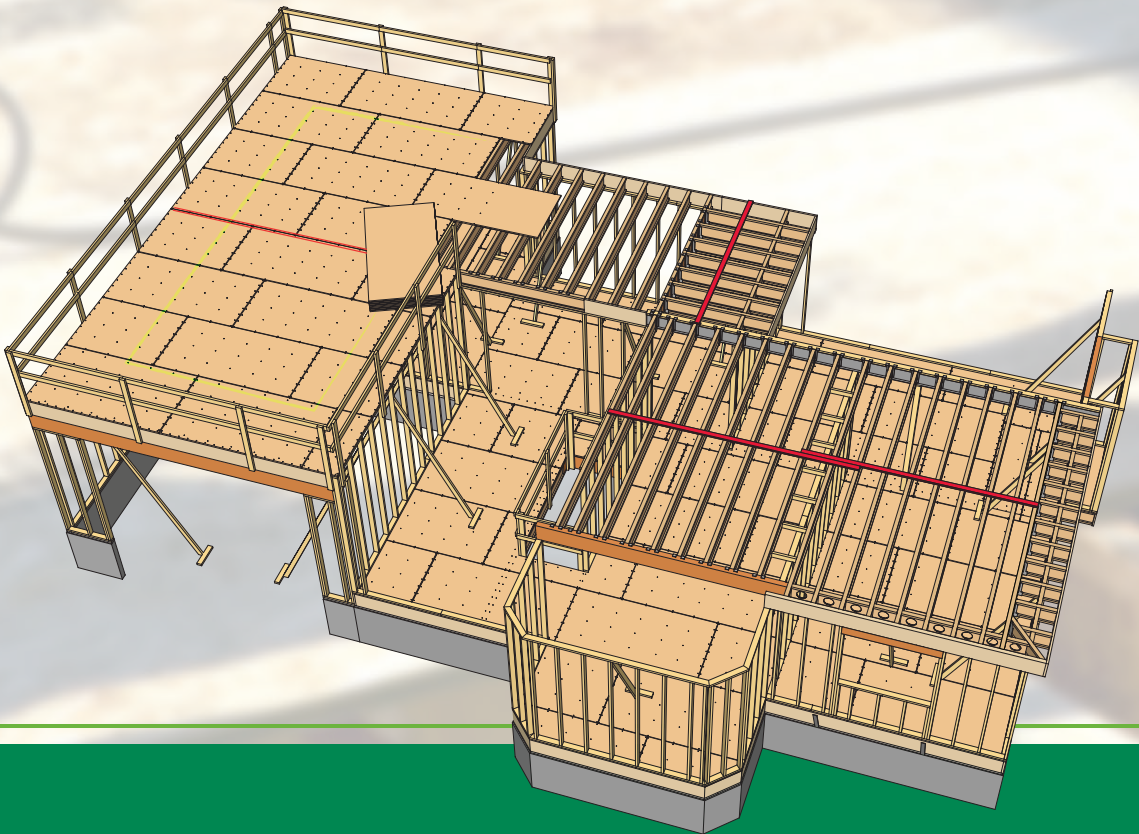


Have a damaged joist or beam?
File a damage report online for prompt service from your regional technical office. Scan the QR code with your smartphone or go to weyerhaeuser.com/woodproducts/support.



FLOOR FRAMING STANDARDS

A Framer's Guide to the INSTALLATION PROCESS



WEYERHAEUSER FLOOR FRAMING STANDARDS

A Framers's Guide to the INSTALLATION PROCESS

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TJI[®] 110

TJI[®] 210

TJI[®] 230

TJI[®] 360

TJI[®] 560

Joists

Reorder TJ-9001

INSTALLATION GUIDE

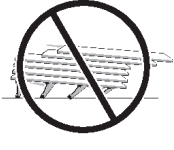
FOR FLOOR AND ROOF FRAMING



WARNING:
DO NOT walk on joists until braced. **INJURY MAY RESULT.**



WARNING:
DO NOT walk on joists that are lying flat.



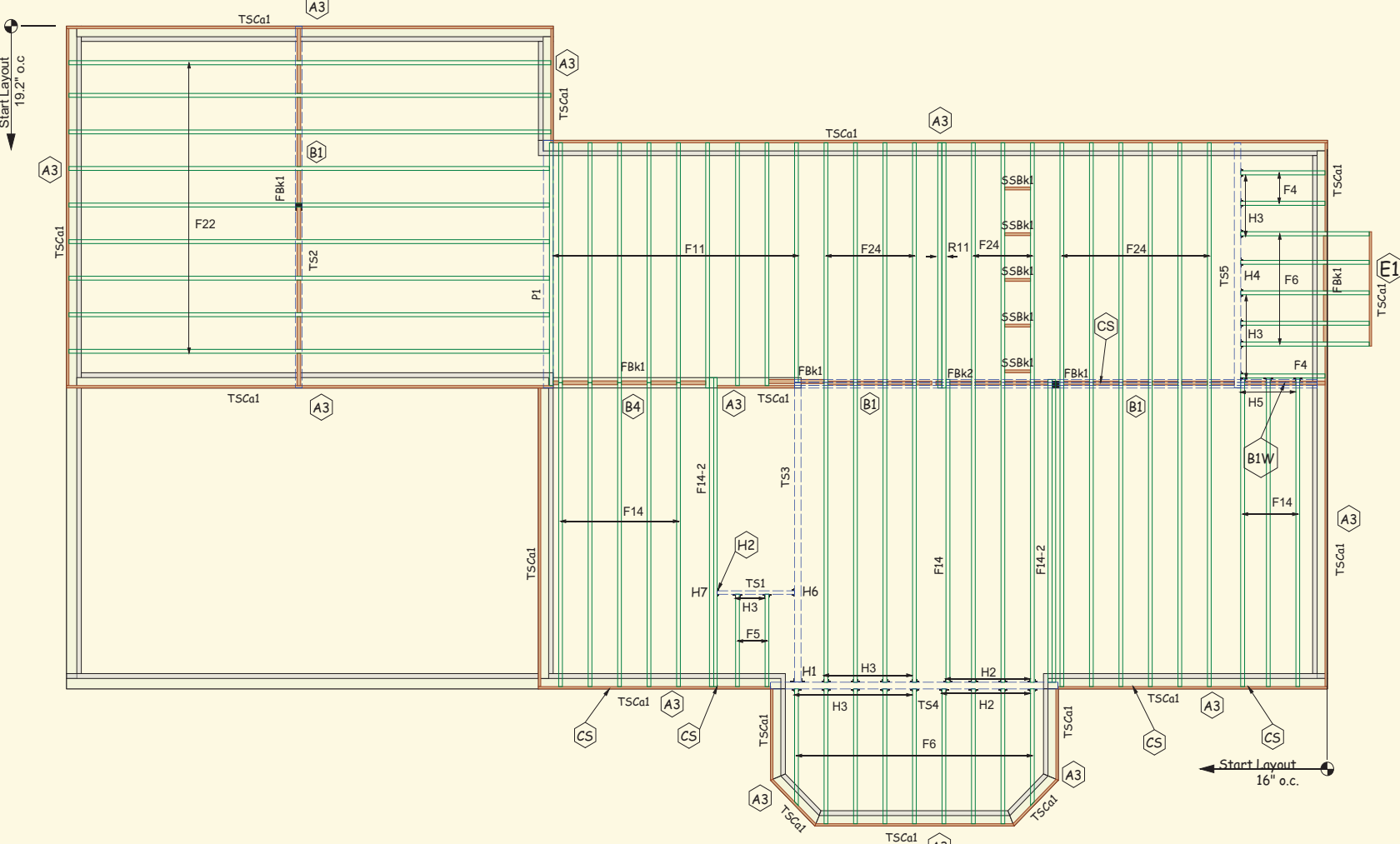
WARNING:
DO NOT stack building materials on unsheathed joists. Stack only over beams or walls.

IMPORTANT: PLEASE READ CAREFULLY!

Refer to the Trus Joist[®] Installation Guide for all construction details.

Weyerhaeuser Layout Drawing — For Product Reference Only.

Plan Label	Qty	Manuf.	Product	Face/Supporter Nails	Top Nails	Member/Supported Nails	Skew Slope	Supporting Material	Type	Backer Blks.	Supported Product	Web Stiffeners
H1	1	SST	HGUS412	56- 16d common	-	20- 16d double shear	-	-	LSL	No	3 1/2" x 11 7/8" TimberStrand [®] LSL Beam (1.55E)	No
H2	8	SST	ITS2.06/11.88	2- 10d x 1-1/2	-	4- 10d x 1-1/2	-	-	LSL	No	11 7/8" TJI 210	No
H3	18	SST	IUS2.06/11.88	10- 10d x 1-1/2	-	-	-	-	LSL	No	11 7/8" TJI 210	No
H4	1	SST	IUS2.06/11.88	10- 10d common	-	1- Simpson SD8x1.25 screw installed thru the seat of the hanger	-	-	LSL	No	11 7/8" TJI 210	No
H5	3	SST	IUS2.06/11.88	10- 10d common	-	-	-	-	IJOIST	2	11 7/8" TJI 210	No
H6	1	SST	MIU1.81/11	20- 10d x 1-1/2	-	2- 10d x 1-1/2	-	-	LSL	No	1 3/4" x 11 7/8" TimberStrand [®] LSL Beam (1.55E)	No
H7	1	SST	MIU1.81/11	20- 10d common	-	2- 10d x 1-1/2	-	-	IJOIST	1	1 3/4" x 11 7/8" TimberStrand [®] LSL Beam (1.55E)	No



Products

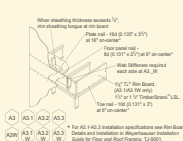
PlotID	Length	Product	Plies	Net Qty
F24	24' 0"	11 7/8" TJI 210	1	13
F22	22' 0"	11 7/8" TJI 210	1	9
F14	14' 0"	11 7/8" TJI 210	1	9
F14-2	14' 0"	11 7/8" TJI 210	2	4
F11	11' 0"	11 7/8" TJI 210	1	10
F6	6' 0"	11 7/8" TJI 210	1	14
F5	5' 0"	11 7/8" TJI 210	1	2
F4	4' 0"	11 7/8" TJI 210	1	3
R11	11' 0"	11 7/8" TJI 360	1	2
TSCa1	16' 0"	1 1/4" x 11 7/8" 1.3E TimberStrand LSL	1	12
TS1	4' 0"	1 3/4" x 11 7/8" TimberStrand [®] LSL Beam (1.55E)	1	1
TS2	16' 0"	3 1/2" x 11 7/8" TimberStrand [®] LSL Beam (1.55E)	1	1
TS3	14' 0"	3 1/2" x 11 7/8" TimberStrand [®] LSL Beam (1.55E)	1	1
TS4	13' 0"	3 1/2" x 11 7/8" TimberStrand [®] LSL Beam (1.55E)	1	1
TS5	11' 0"	3 1/2" x 11 7/8" TimberStrand [®] LSL Beam (1.55E)	1	1
PP1	4' 0"	3 1/2" x 3 1/2" 1.8E Parallam PSL	1	1
P1	11' 0"	5 1/4" x 11 7/8" 2.0E Parallam PSL	1	1

Accessories

PlotID	Length	Product	Plies	Net Qty
	1' 8 15/16"	23/32" Backer Blocks	1	2
	1' 0"	23/32" Backer Blocks	1	3
	2' 0"	1 7/8" net Filler Blocks	1	1
		23/32"x48"x96" OSB Weyerhaeuser Edge (0/24) T&G FF	1	41

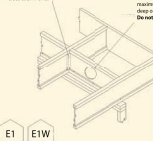
Blocking

PlotID	Length	Product	Plies	Net Qty
FBk1	2' 0"	11 7/8" TJI 210	1	33
FBk1	1' 0"	11 7/8" TJI 210	1	6
FBk2	1' 0"	11 7/8" TJI 210	1	1
SSBk1	2' 0"	2 X 4 DF Stud	1	5



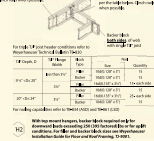
When installing joist hangers, use the following instructions:

- Use the correct hanger for the joist size and spacing.
- Follow the manufacturer's instructions for installation.
- Use the correct nails for the hanger and joist.



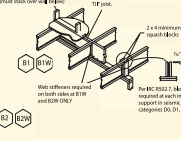
When installing joist blocking, use the following instructions:

- Use the correct blocking for the joist size and spacing.
- Follow the manufacturer's instructions for installation.
- Use the correct nails for the blocking and joist.



When laying out joists, use the following instructions:

- Use the correct layout for the joist size and spacing.
- Follow the manufacturer's instructions for installation.
- Use the correct nails for the joist and hanger.



When installing joist safety bracing, use the following instructions:

- Use the correct bracing for the joist size and spacing.
- Follow the manufacturer's instructions for installation.
- Use the correct nails for the bracing and joist.

Sample Residence

Job # 658-426

Good Builders, Inc.

ABC Lumber

(800) 555-0000

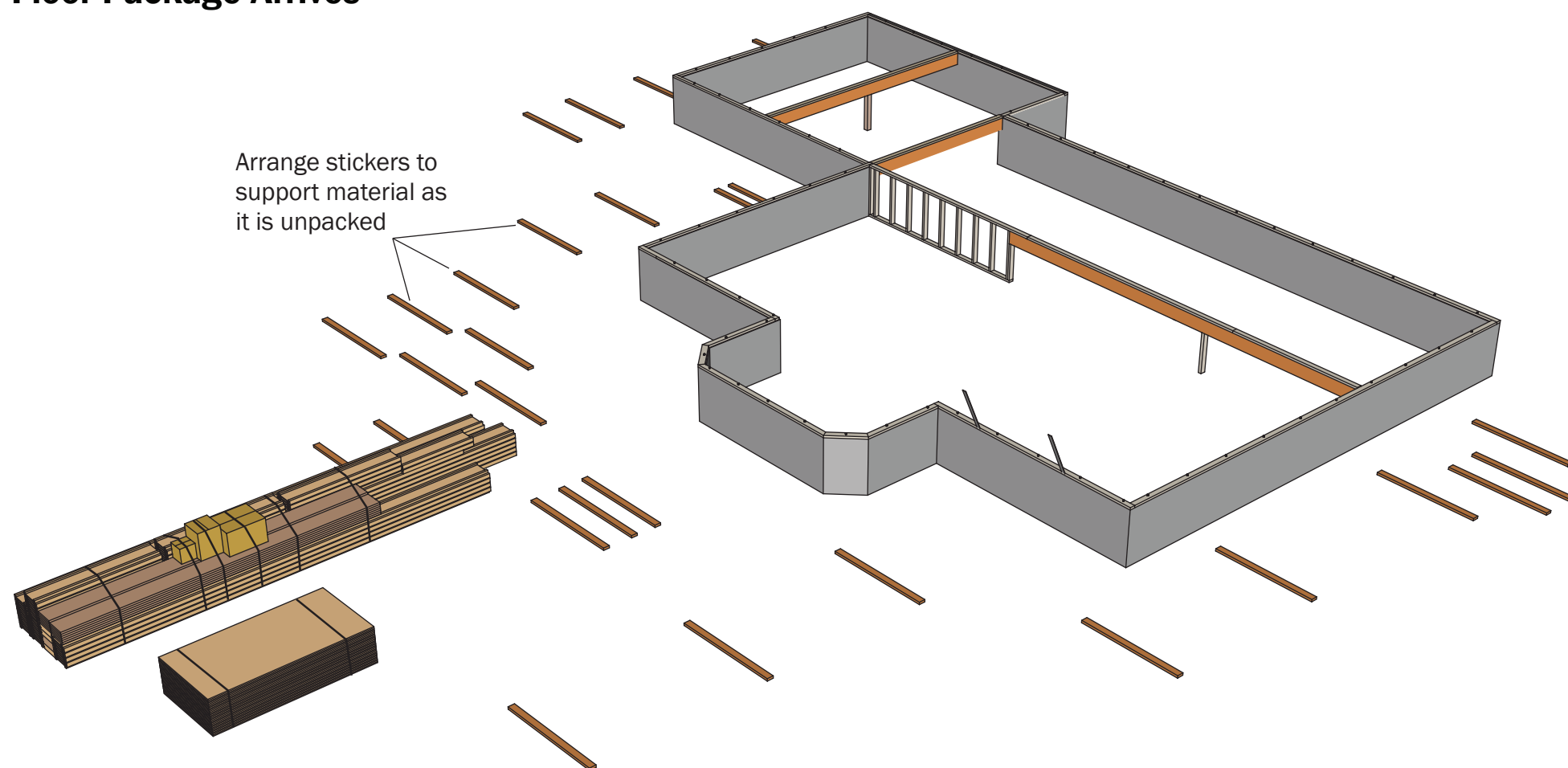
Stay Safe!
Wear Personal
Protective Equipment (PPE)



WARNING: This product can expose you to chemicals including wood dust which are known to the State of California to cause cancer, and methanol, which are known to the State of California to cause birth defects or other reproductive harm. Drilling, sawing, sanding or machining wood products can expose you to wood dust. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov and www.P65Warnings.ca.gov/wood.

Wood dust is classified as an irritant.
Refer to SDS sheets available
from Weyerhaeuser.

Floor Package Arrives



WARNING: JOISTS ARE UNSTABLE UNTIL BRACED Laterally

BRACING INCLUDES: Blocking, Hangers, Rim Board, Sheathing, Rim Joist, Strut Lines

Lack of proper bracing during construction can result in serious accidents. Observe the following guidelines:

1. Properly install all blocking, hangers, rim boards, and rim joists at TJ1® joist end supports.
2. Establish a permanent deck (sheathing), fastened to the first 4 feet of joists at the end of the bay or braced end wall.
3. Safety bracing of 1x4 (minimum) must be nailed to a braced end wall or sheathed area and to each joist.
4. Sheathing must be completely attached to each TJ1® joist before additional loads can be placed on the system.
5. Ends of cantilevers require safety bracing on both the top and bottom flanges.
6. The flanges must remain straight within 1/8" from true alignment.

This guide is intended for the products shown in dry-use conditions.

La Sécurité Avant Tout
AVERTISSEMENT
Lire Attentivement

- Les solives non contreventées latéralement sont instables. Voir le guide d'installation **avant** la pose des solives TJI®.
- Ne pas circuler sur les solives TJI® **avant** qu'elles ne soient adéquatement contreventées. Risque de blessure.
- Ne pas empiler des matériaux sur des solives avant d'avoir installé les sous-plancher. Les entreposer temporairement au-dessus des poutres et murs.

La Seguridad Ante Todo
ADVERTENCIA
Por Favor Lea Cuidadosamente

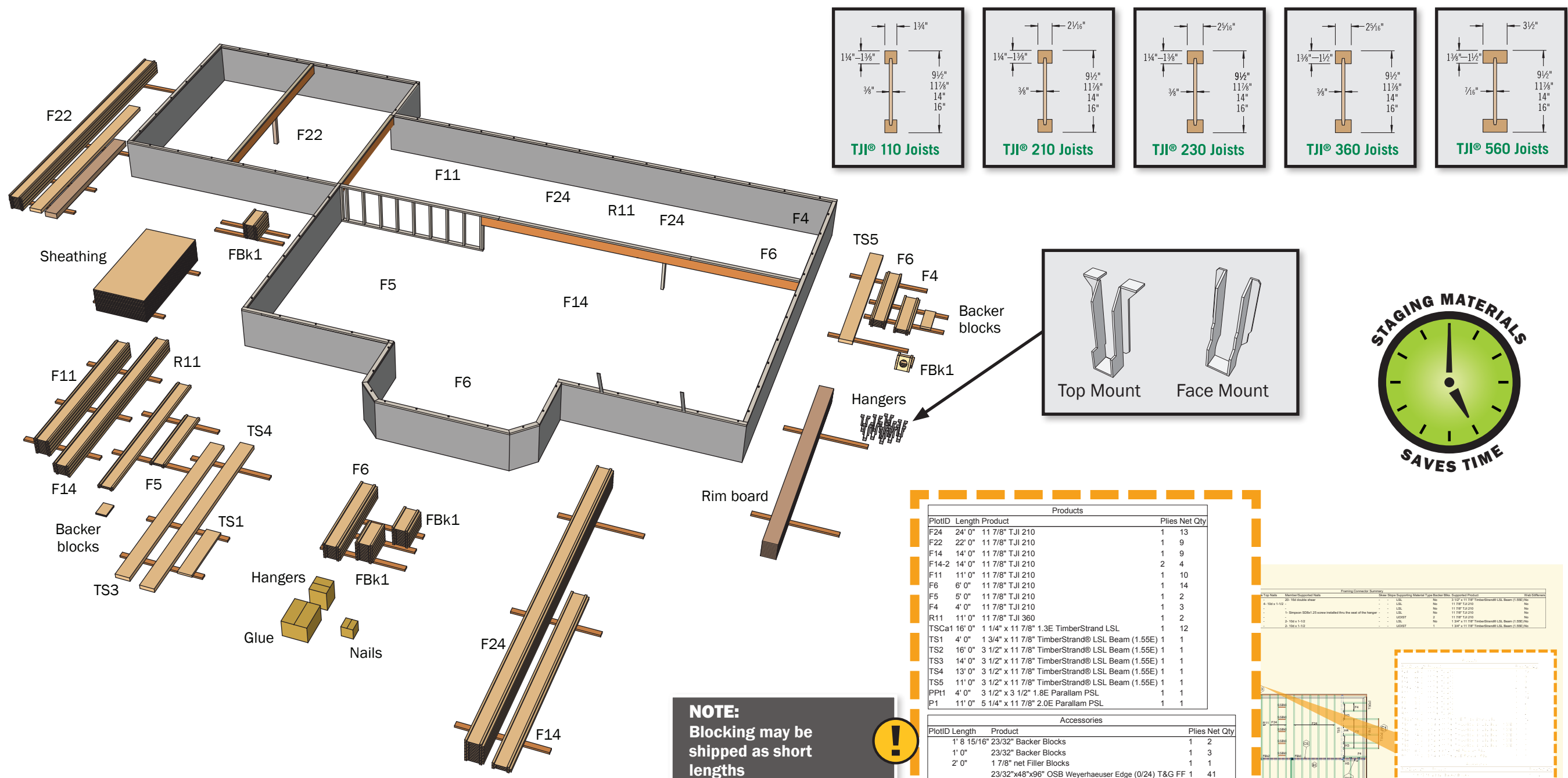
- Las viguetas son inestables hasta que sean reforzadas lateralmente. Vea la guía de instalaciones **antes** de instalar las viguetas TJI®.
- No camine sobre las viguetas hasta que sean apuntaladas.
- No ponga materiales de construcción sobre las viguetas TJI® antes de instalar el triplay. Ponga materiales únicamente sobre vigas o muros.

WY.COM/BESAFE

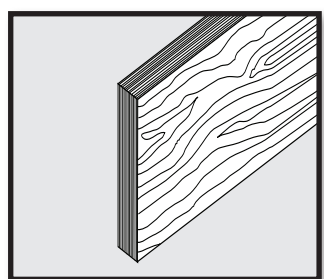
STAGE MATERIALS

STEP 2

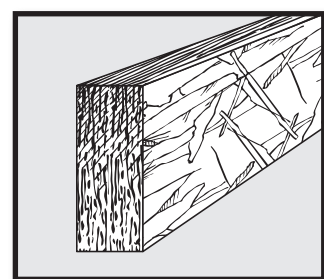
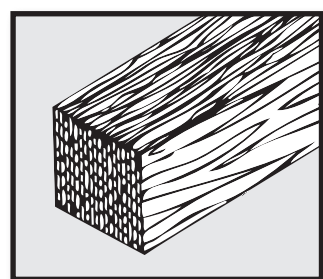
Joist Identification



Microllam® LVL



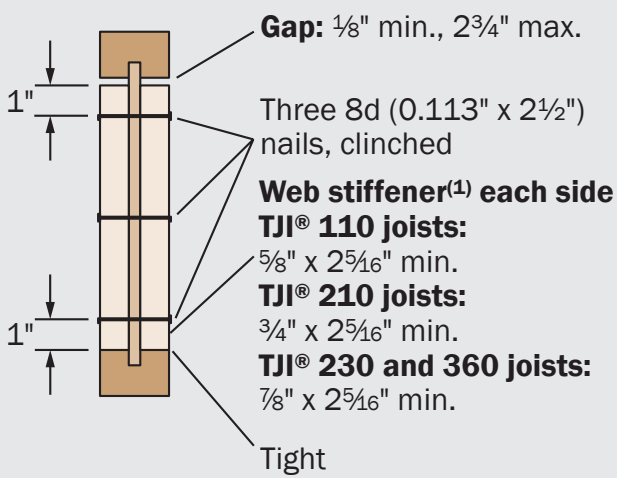
TimberStrand® LSL

**Parallam® PSL**

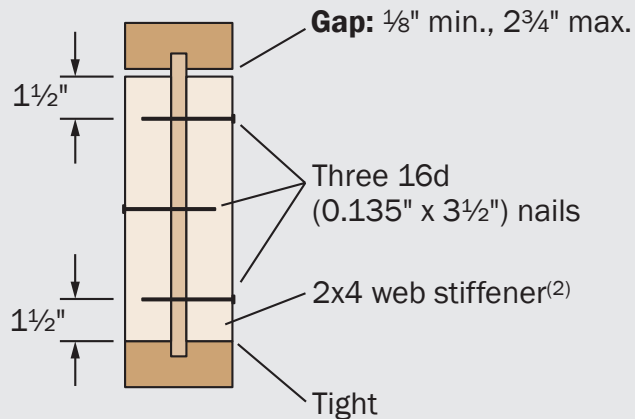
See architect or engineer plans for dimensions and special details

Web Stiffeners

TJI® 110, 210, 230, 360 Joists

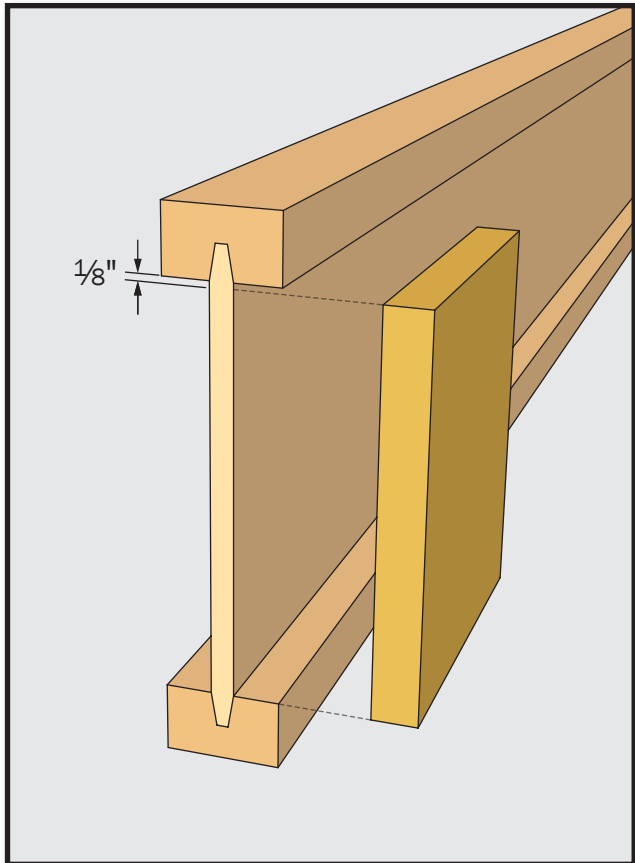


TJI® 560 Joists

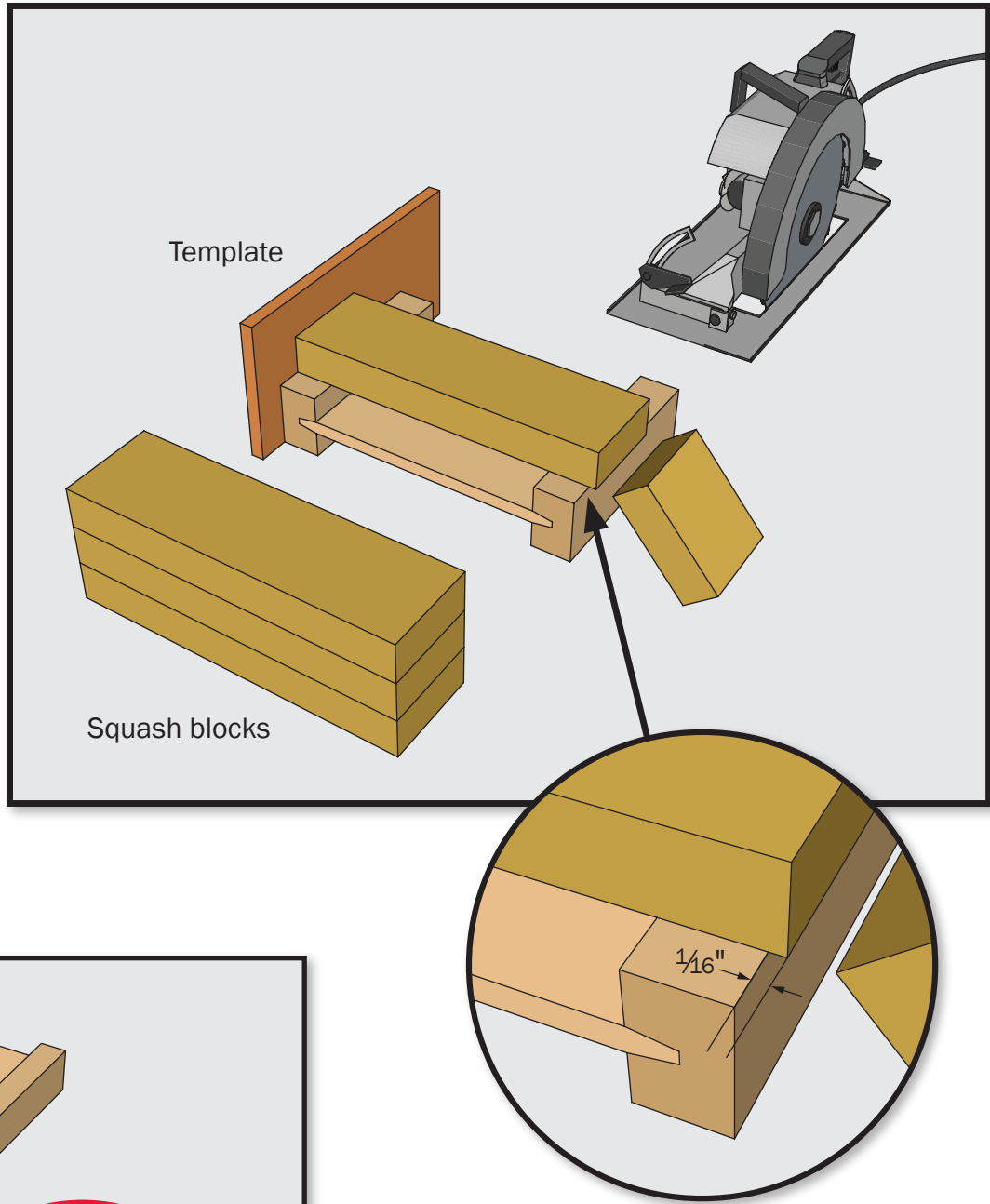


- (1) PS1 or PS2 sheathing, face grain vertical
(2) Construction grade or better

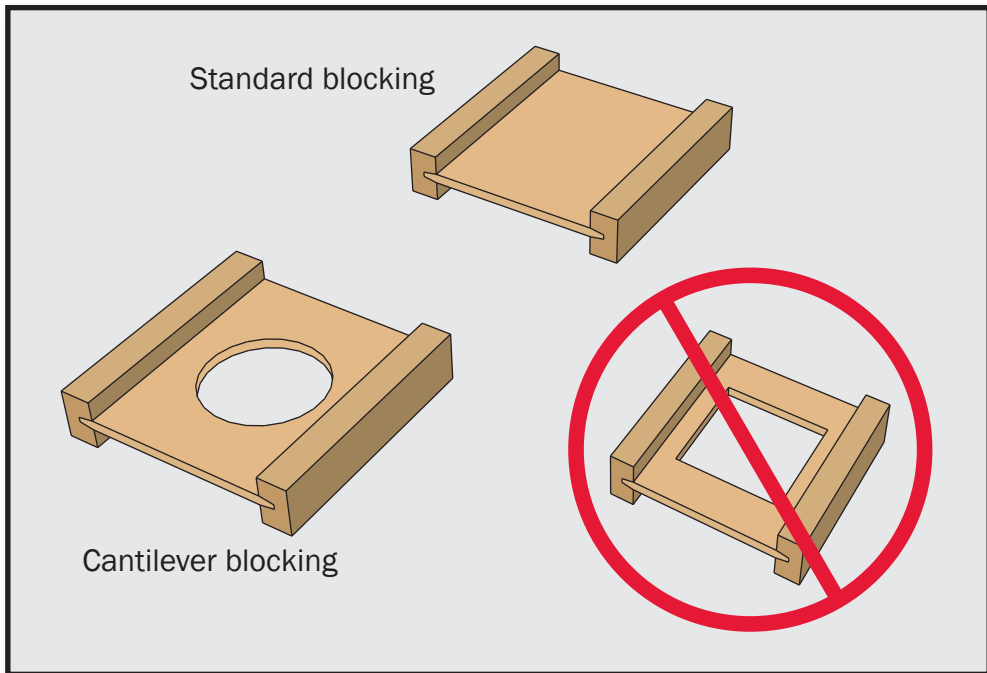
Cutting Web Stiffeners



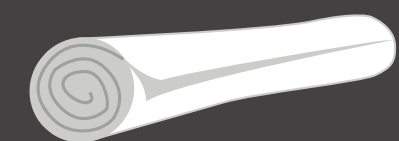
Cutting Squash Blocks



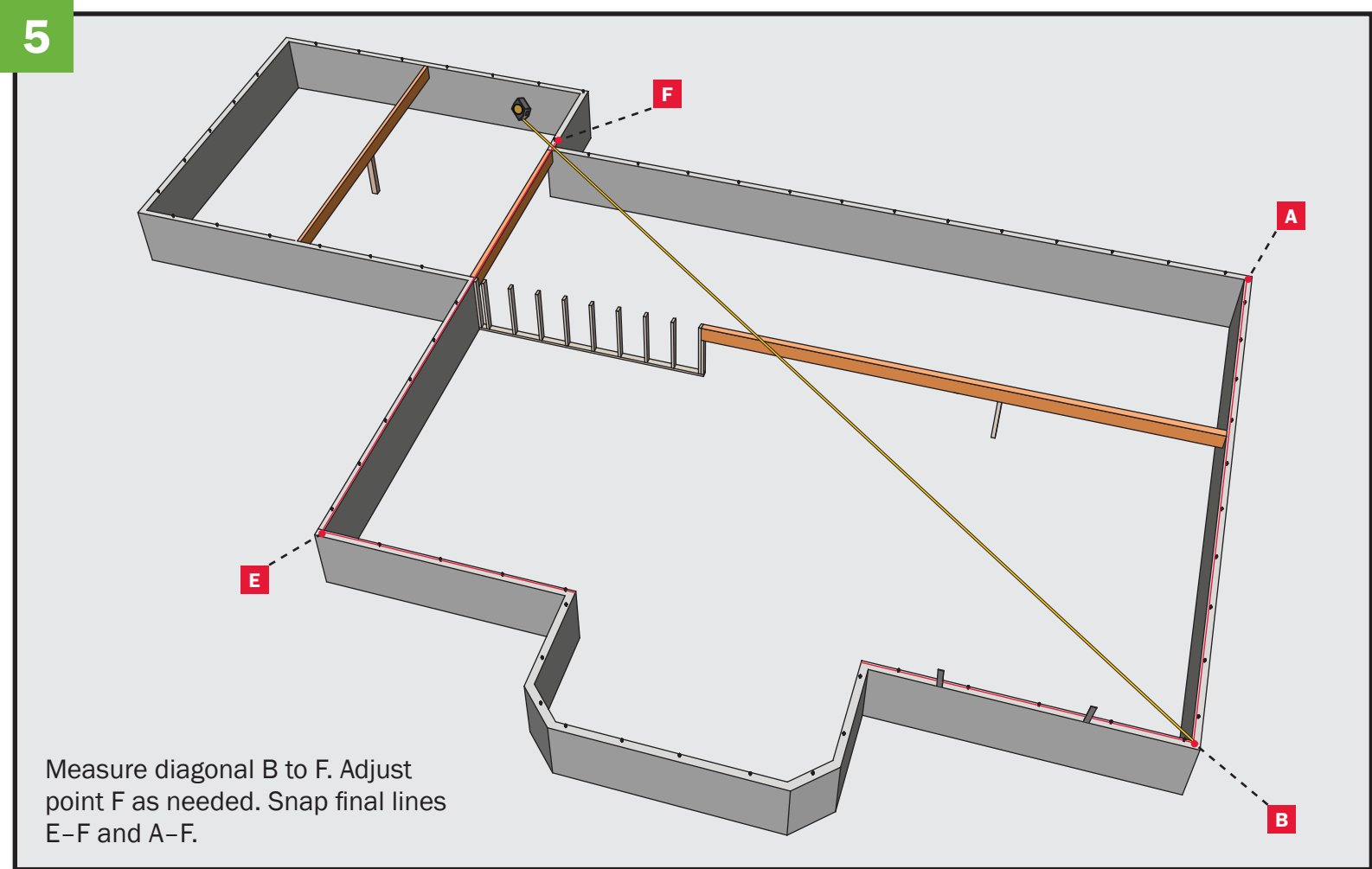
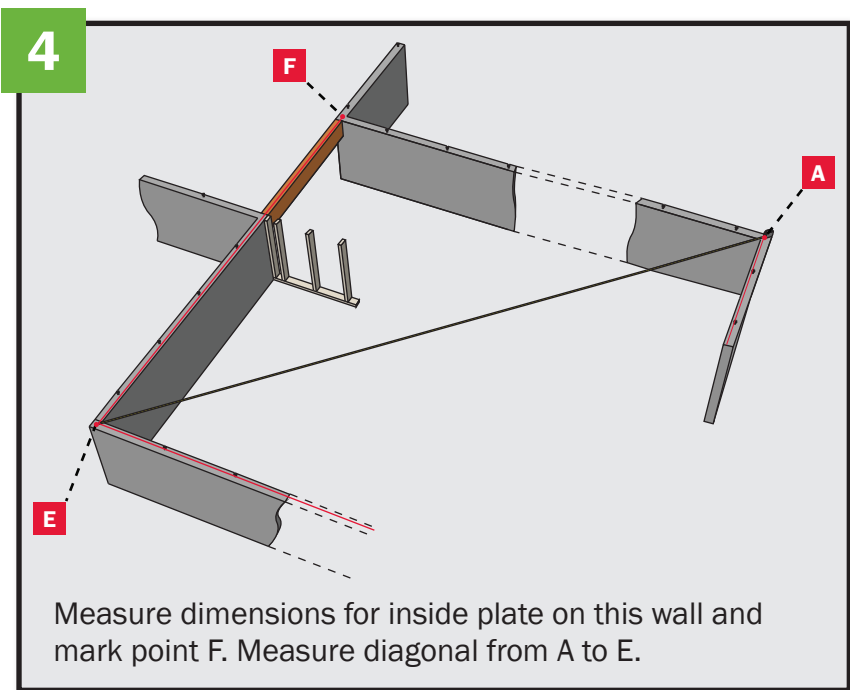
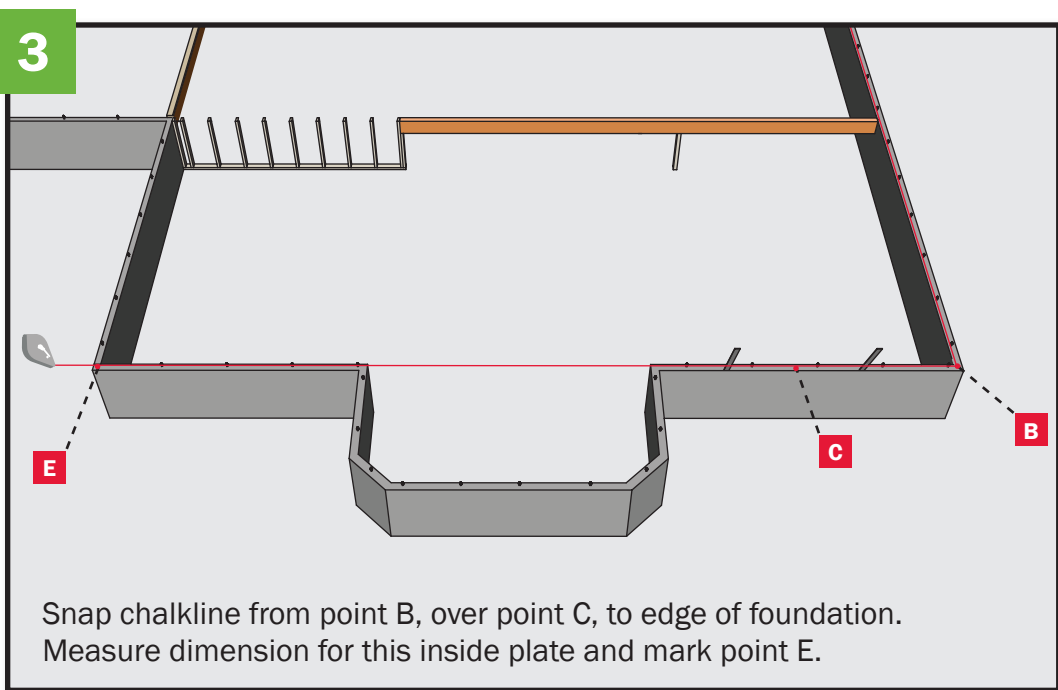
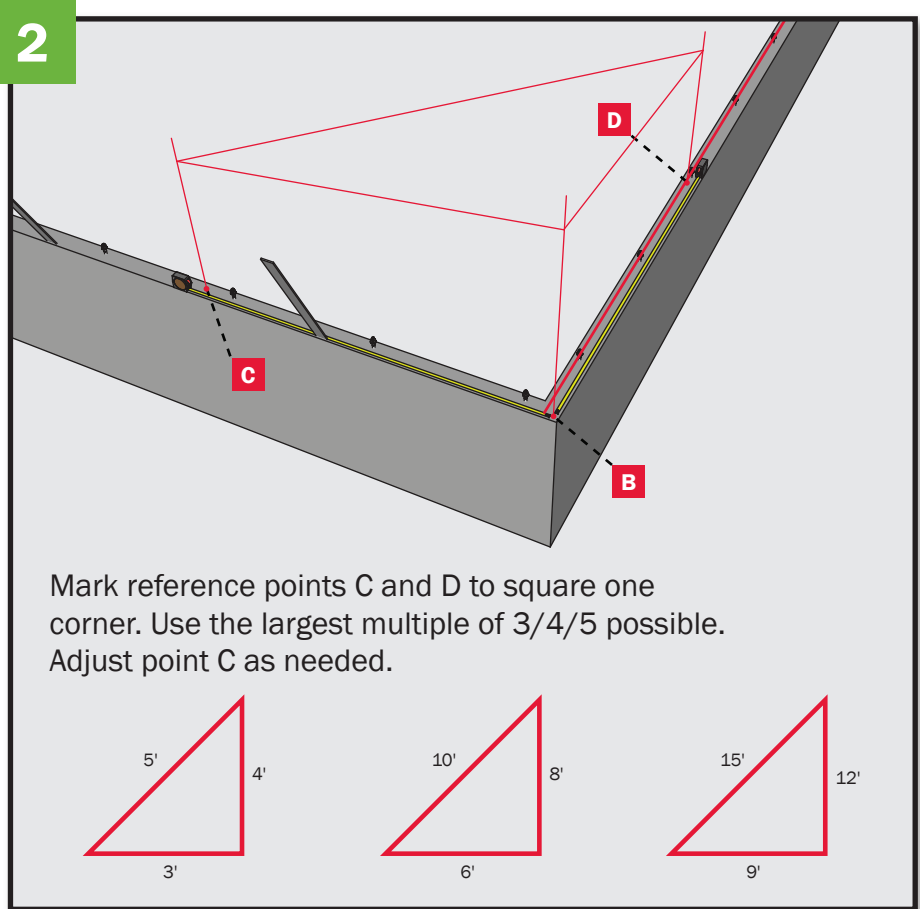
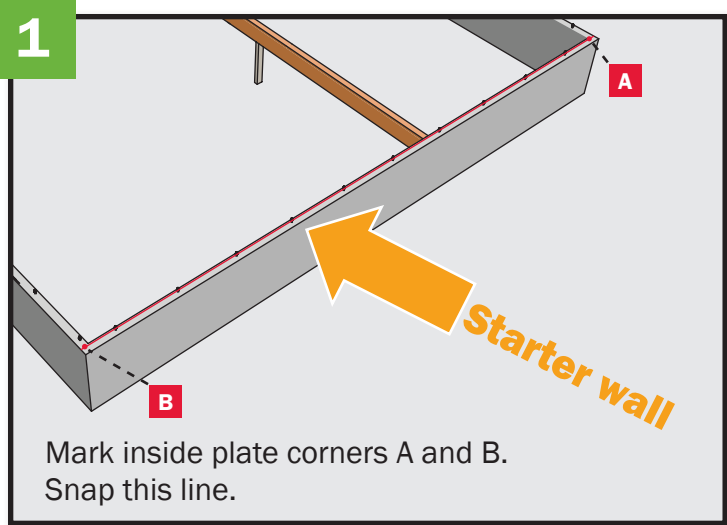
Cutting Blocking Panels



SQUARE AND SNAP LINE FOR SILL PLATE

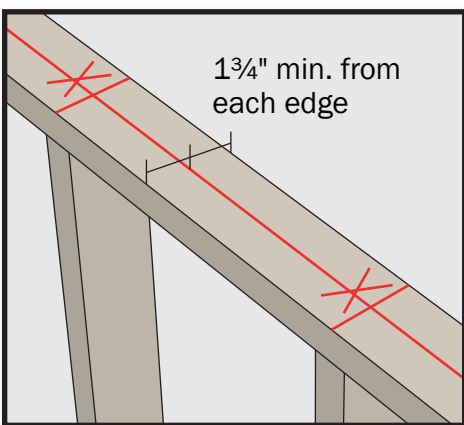


Architect/Engineer Plan

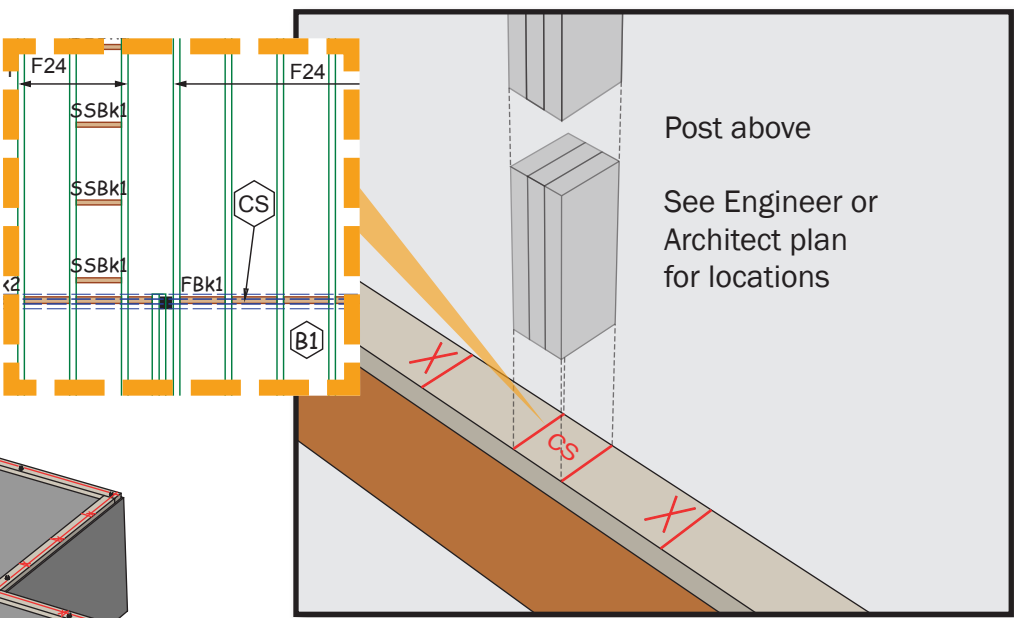


See architect or engineer plans for dimensions and special details

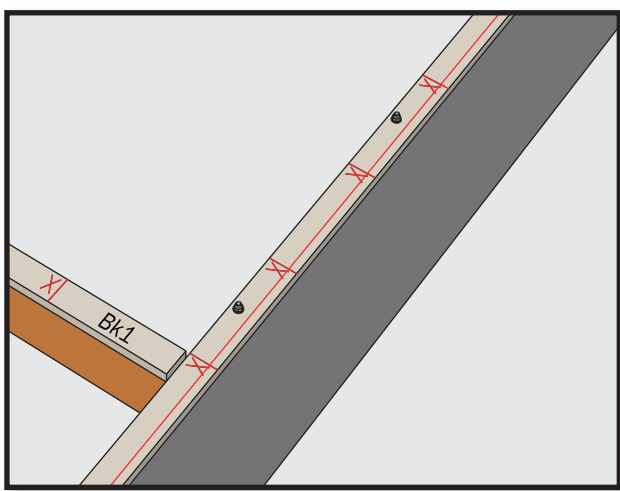
Snap Line at Butted Joist



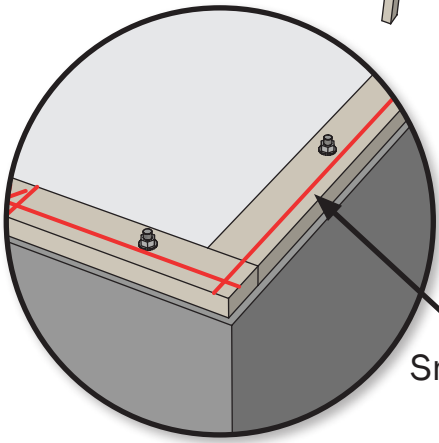
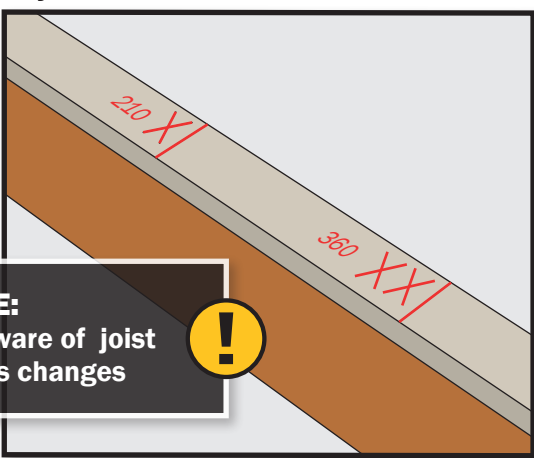
Layout Squash Blocks



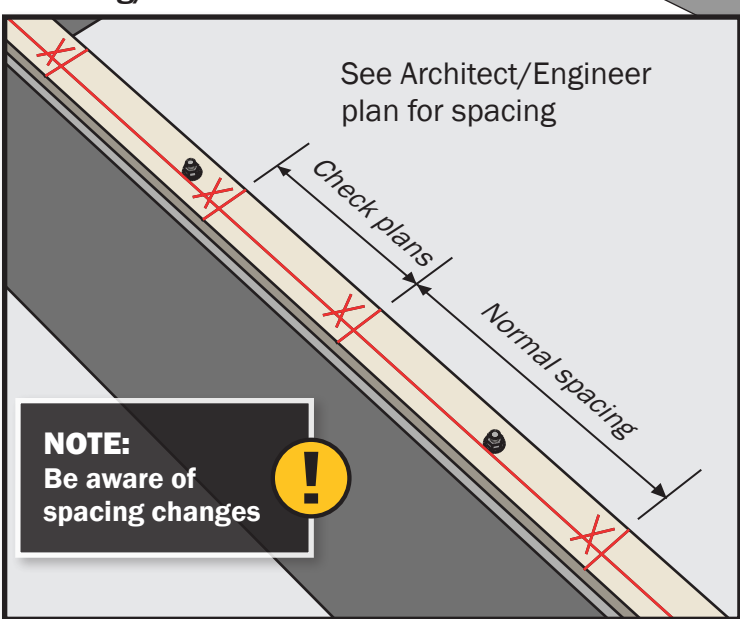
Layout Blocking Panels



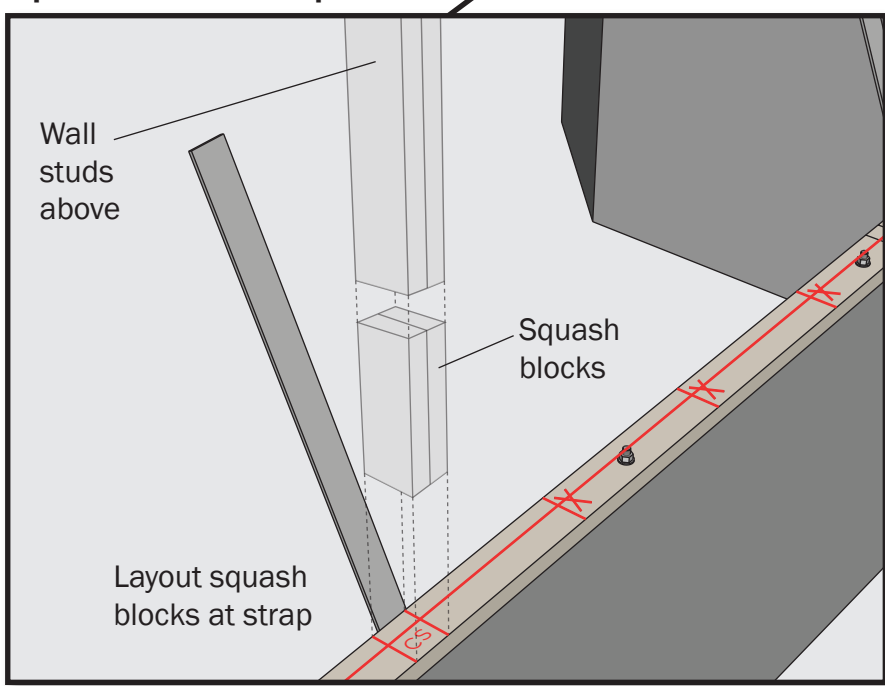
Layout Joists



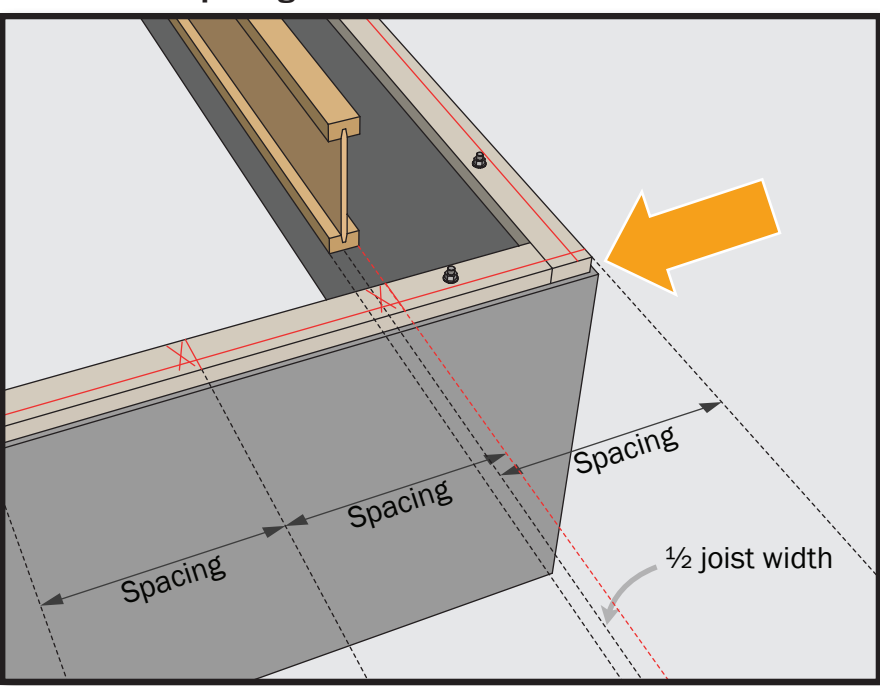
Plumbing/Mechanical Offsets



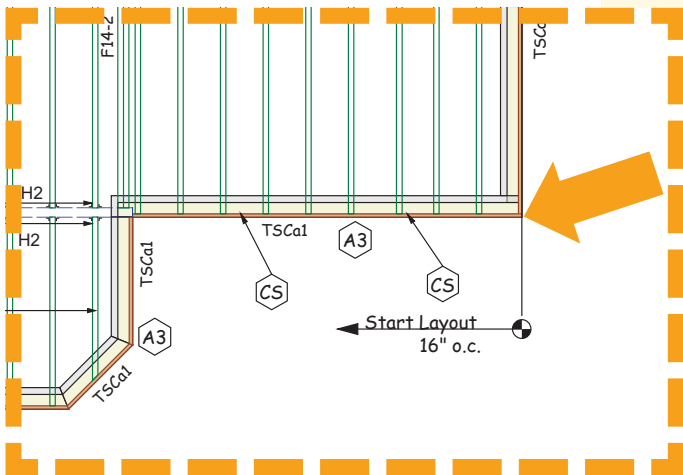
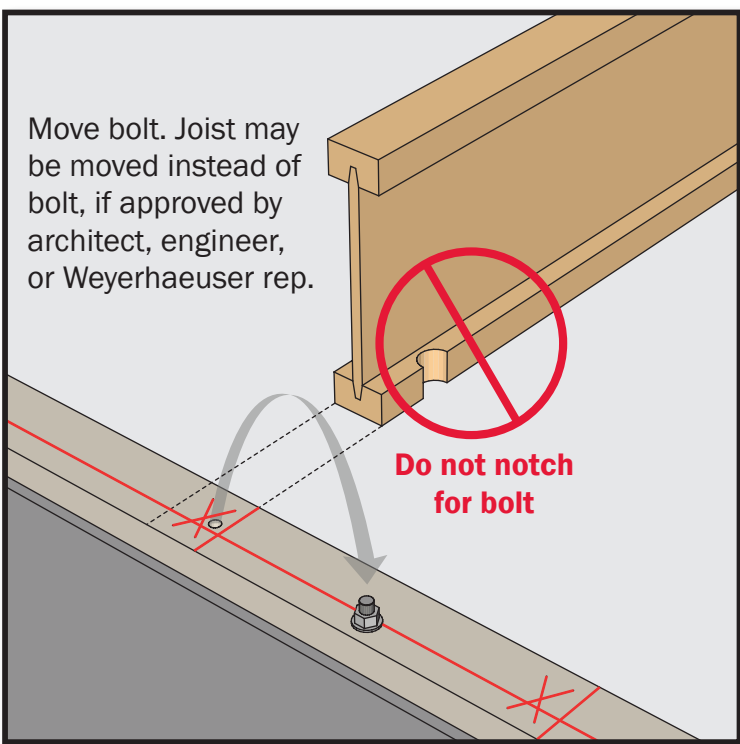
Squash Blocks at Strap



Normal Joist Spacing

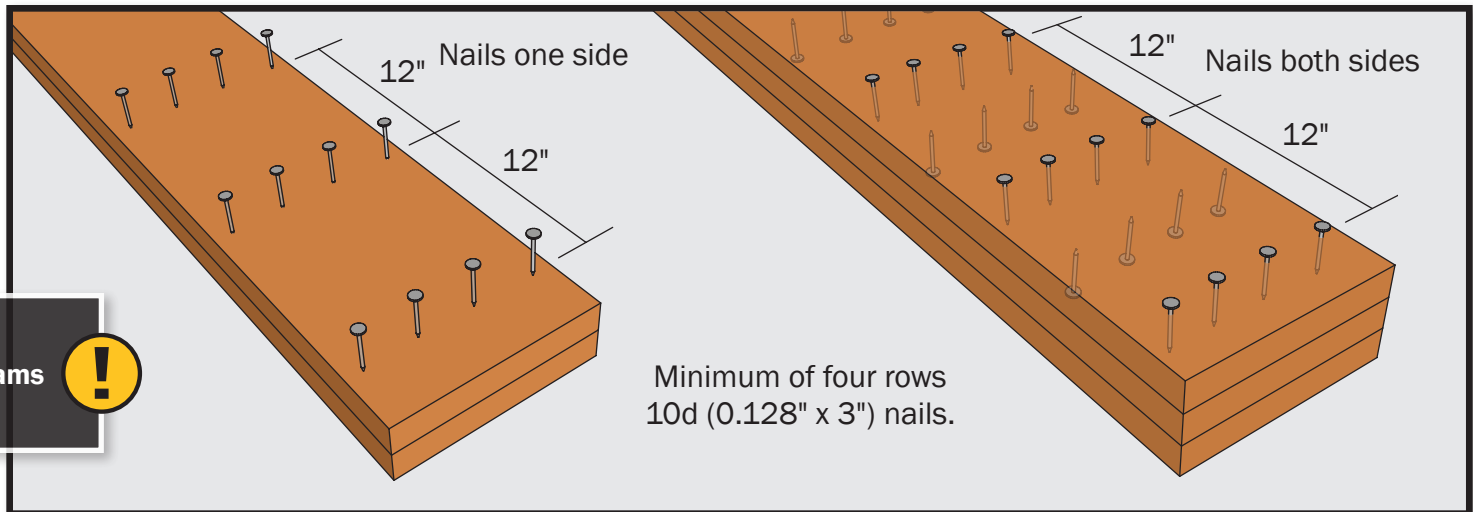


Bolt at Joist Location



Material Schedule		Material Schedule	
Item	Description	Item	Description
1	2x12 S-P-F Joist	1	2x12 S-P-F Joist
2	2x12 S-P-F Joist	2	2x12 S-P-F Joist
3	2x12 S-P-F Joist	3	2x12 S-P-F Joist
4	2x12 S-P-F Joist	4	2x12 S-P-F Joist
5	2x12 S-P-F Joist	5	2x12 S-P-F Joist
6	2x12 S-P-F Joist	6	2x12 S-P-F Joist
7	2x12 S-P-F Joist	7	2x12 S-P-F Joist
8	2x12 S-P-F Joist	8	2x12 S-P-F Joist
9	2x12 S-P-F Joist	9	2x12 S-P-F Joist
10	2x12 S-P-F Joist	10	2x12 S-P-F Joist
11	2x12 S-P-F Joist	11	2x12 S-P-F Joist
12	2x12 S-P-F Joist	12	2x12 S-P-F Joist
13	2x12 S-P-F Joist	13	2x12 S-P-F Joist
14	2x12 S-P-F Joist	14	2x12 S-P-F Joist
15	2x12 S-P-F Joist	15	2x12 S-P-F Joist
16	2x12 S-P-F Joist	16	2x12 S-P-F Joist
17	2x12 S-P-F Joist	17	2x12 S-P-F Joist
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22	2x12 S-P-F Joist	22	2x12 S-P-F Joist
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25	2x12 S-P-F Joist	25	2x12 S-P-F Joist
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73	2x12 S-P-F Joist	73	2x12 S-P-F Joist
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85	2x12 S-P-F Joist	85	2x12 S-P-F Joist
86	2x12 S-P-F Joist	86	2x12 S-P-F Joist
87	2x12 S-P-F Joist	87	2x12 S-P-F Joist
88	2x12 S-P-F Joist	88	2x12 S-P-F Joist
89	2x12 S-P-F Joist	89	2x12 S-P-F Joist
90	2x12 S-P-F Joist	90	2x12 S-P-F Joist
91	2x12 S-P-F Joist	91	2x12 S-P-F Joist
92	2x12 S-P-F Joist	92	2x12 S-P-F Joist
93	2x12 S-P-F Joist	93	2x12 S-P-F Joist
94	2x12 S-P-F Joist	94	2x12 S-P-F Joist
95	2x12 S-P-F Joist	95	2x12 S-P-F Joist
96	2x12 S-P-F Joist	96	2x12 S-P-F Joist
97	2x12 S-P-F Joist	97	2x12 S-P-F Joist
98	2x12 S-P-F Joist	98	2x12 S-P-F Joist
99	2x12 S-P-F Joist	99	2x12 S-P-F Joist
100	2x12 S-P-F Joist	100	2x12 S-P-F Joist

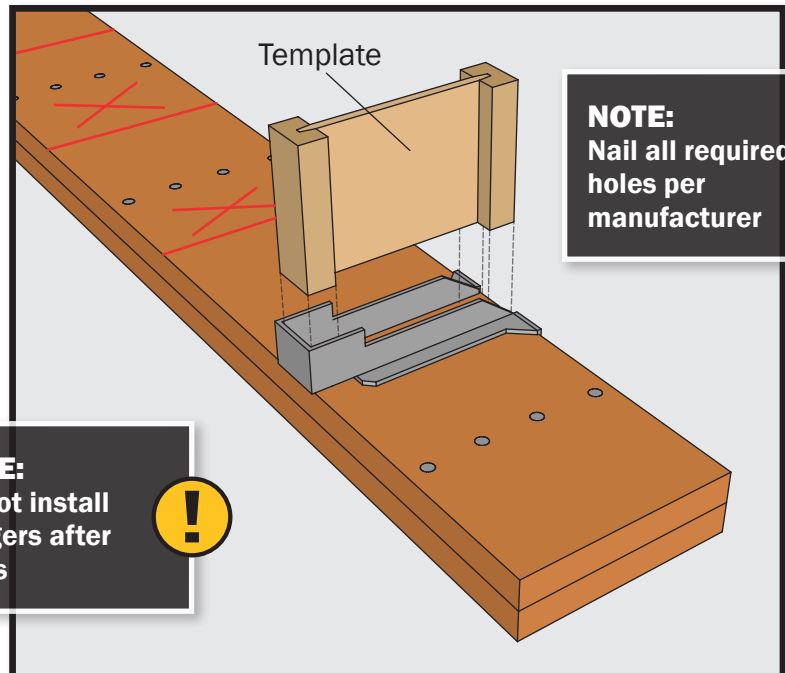
Fastening Per Engineer's Specifications (Top Loaded Beams ONLY)



NOTE:
Assemble beams
on ground

Minimum of four rows
10d (0.128" x 3") nails.

Hanger Installation



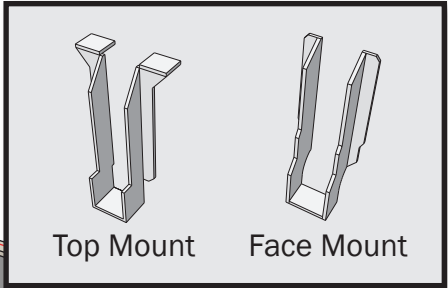
NOTE:
Do not install
hangers after
joists

NOTE:
Nail all required
holes per
manufacturer

Plan Label	Qty	Manuf.	Product	Face / Supporter	Nails Top Nails
H2	8	SST	ITS2.06/11.88	2-10d x 1-1/2	4- 10d x 1-1/2
H3	18	SST	IUS2.06/11.88	10-10d x 1-1/2	—

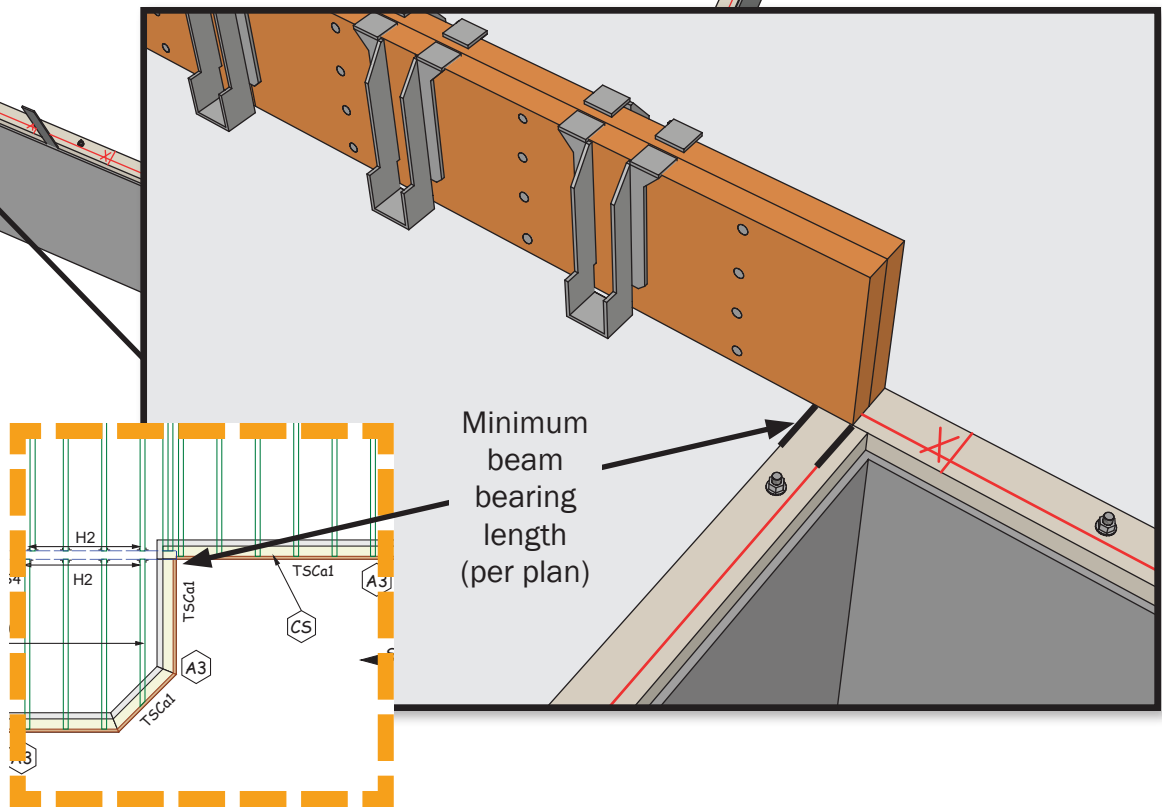
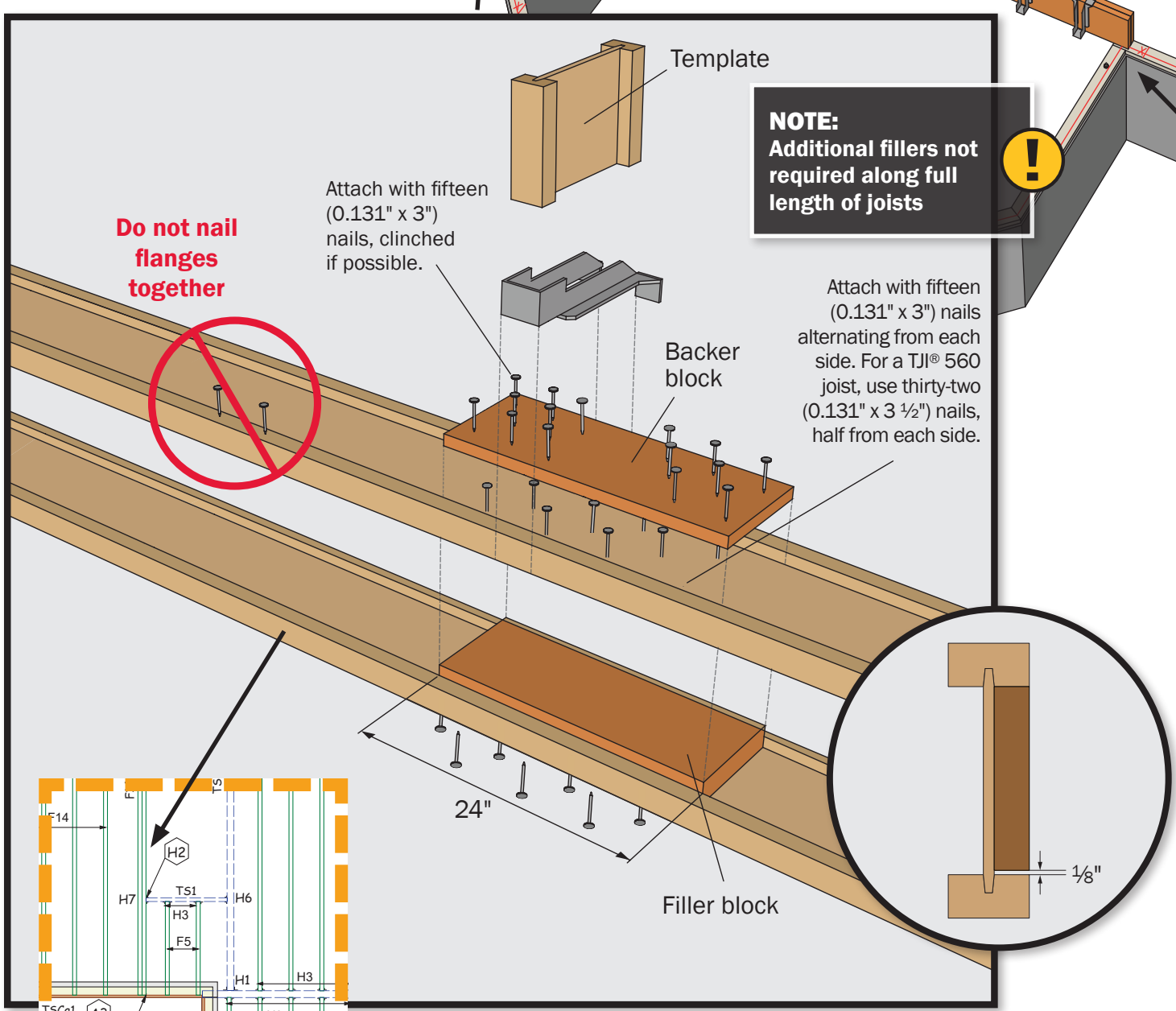
NOTE:
See Engineer's plans
or layout plans for
special fastening of
side-loaded beams!

NOTE:
Use galvanized nails to
connect products to treated
lumber sill plates. Not
required with StrandGuard®
TimberStrand® LSL sill plates.



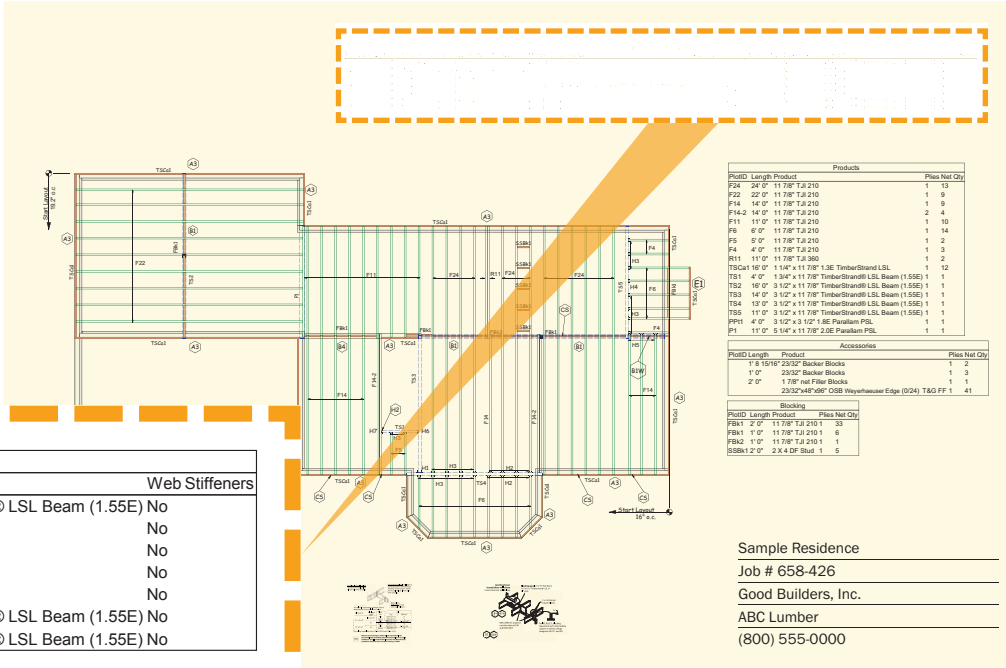
CAUTION:
Beams are heavy. Use
appropriate equipment
when lifting/placing beams
to avoid injury.

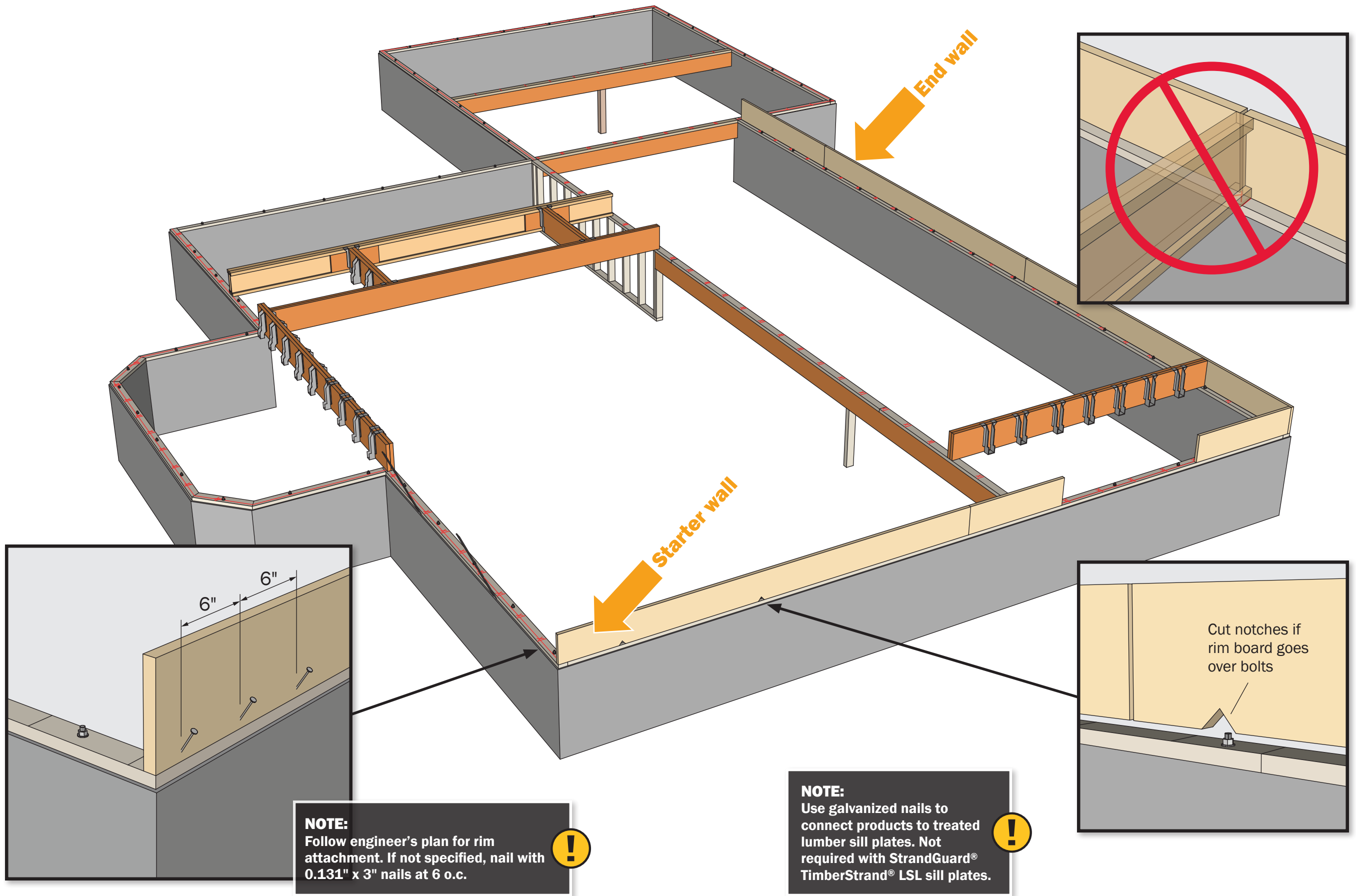
Building Double TJI® Joist to
Support Header (Detail H2)



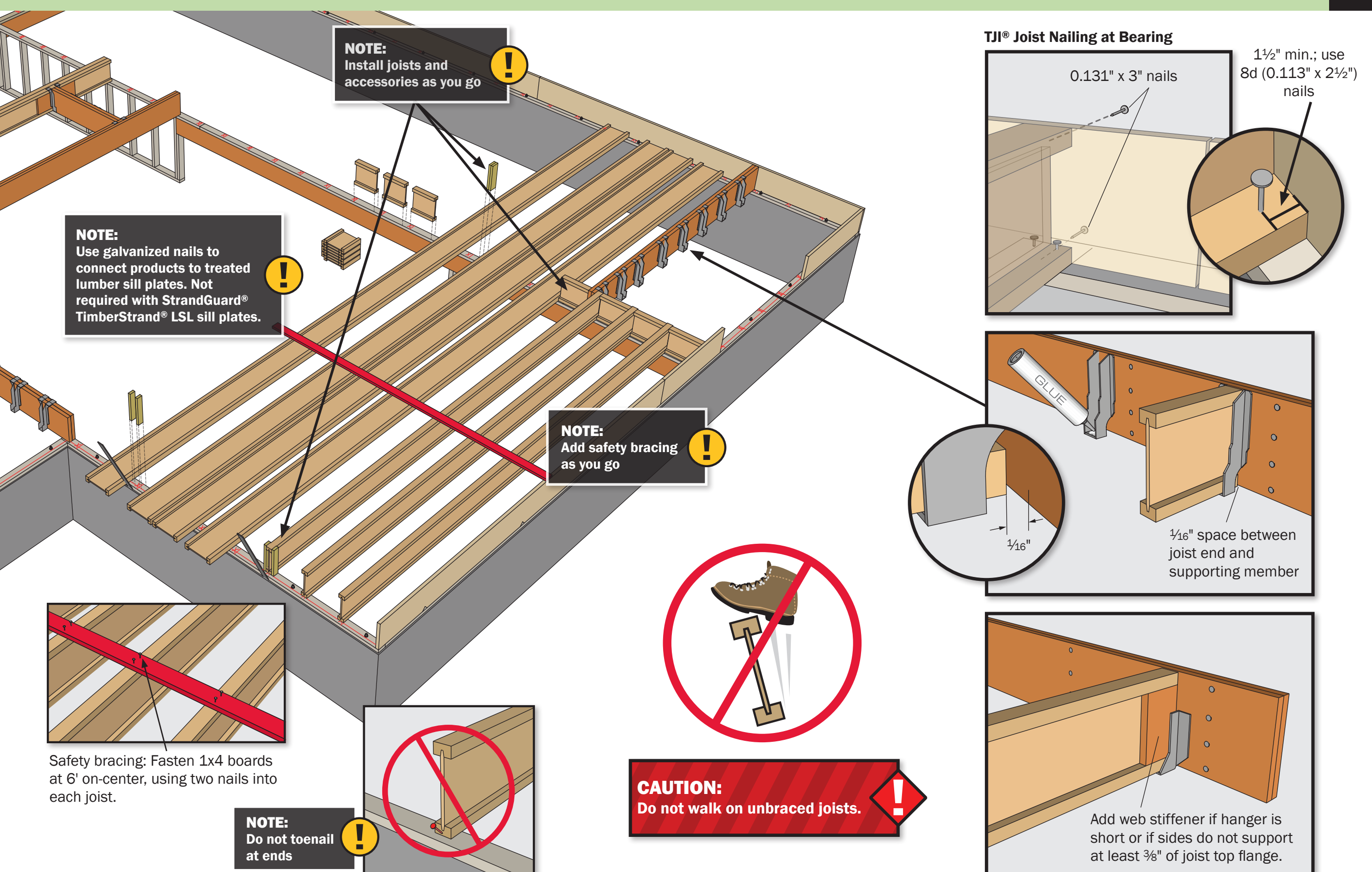
Install backer blocks tight to
top flange (tight to bottom
flange with face mount hang-
ers) with 1/8" min. gap

Framing Connector Summary									
Plan Label	Qty	Manuf.	Product	Face/Supporter	Nails Top Nails	Member/Supported	Nails	Skew Slope	Supporting Material Type
H1	1	SST	HGUS412	56- 16d common	-	20- 16d double shear	-	-	LSL
H2	8	SST	ITS2.06/11.88	2- 10d x 1-1/2	-	4- 10d x 1-1/2	-	-	LSL
H3	18	SST	IUS2.06/11.88	10- 10d x 1-1/2	-	-	-	-	LSL
H4	1	SST	IUS2.06/11.88	10- 10d common	-	1- Simpson SD8x1.25 screw installed thru the seat of the hanger	-	-	LSL
H5	3	SST	IUS2.06/11.88	10- 10d common	-	-	-	-	IJOIST
H6	1	SST	MIU1.81/11	20- 10d x 1-1/2	-	2- 10d x 1-1/2	-	-	LSL
H7	1	SST	MIU1.81/11	20- 10d common	-	2- 10d x 1-1/2	-	-	IJOIST



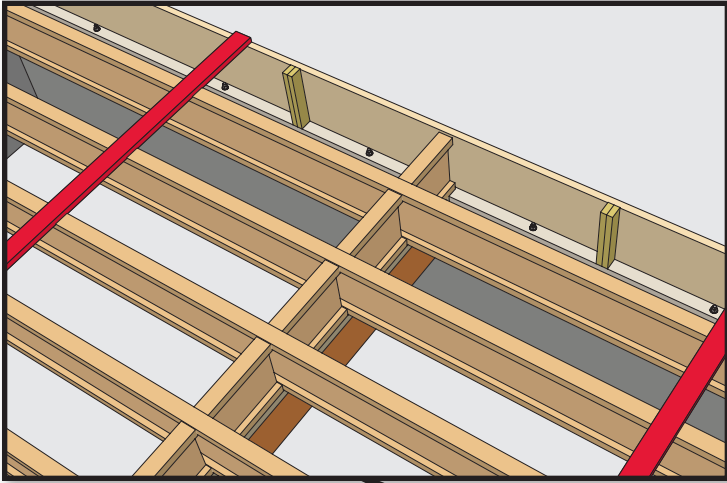


INSTALL JOISTS, ACCESSORIES, AND SAFETY BRACING

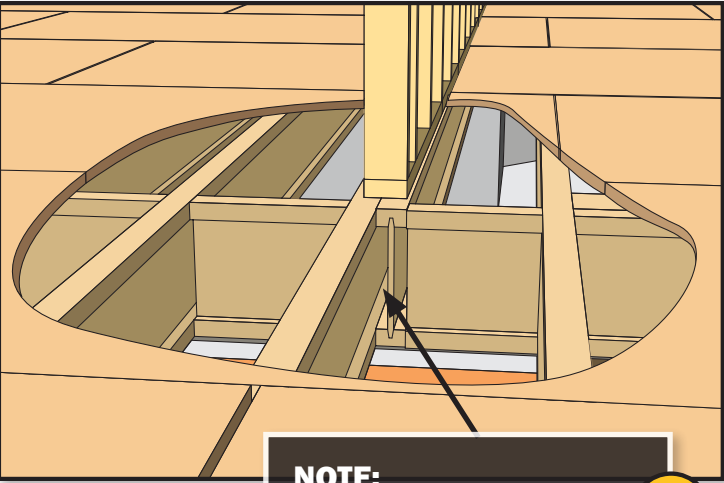


See architect or engineer plans for dimensions and special details

Squash Blocks at Multiple Studs from Above

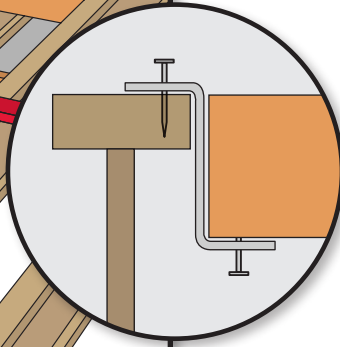
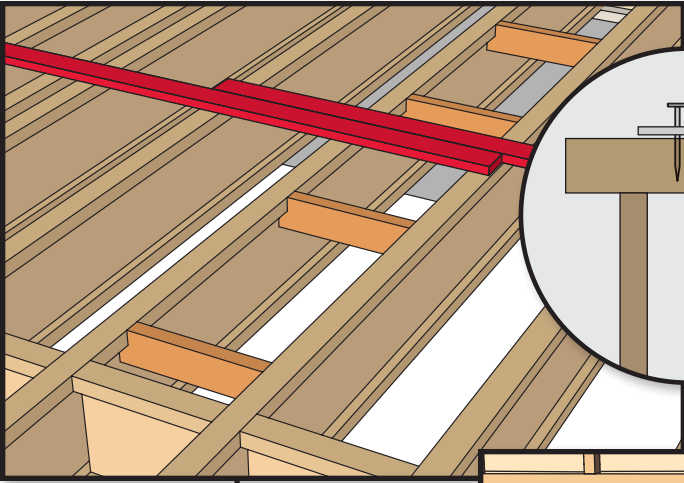


Double Joist Under Shear or Braced Wall



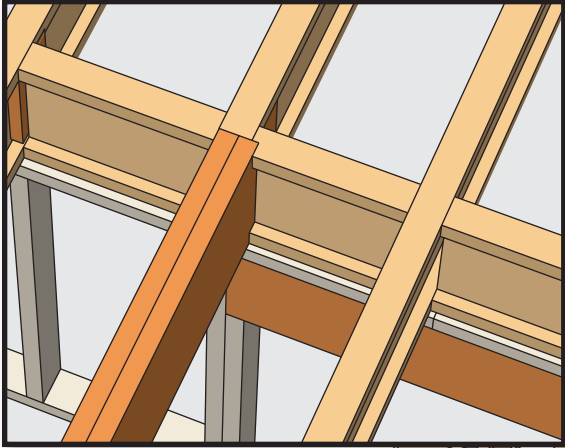
NOTE:
No filler unless specified
by engineer or architect

Joists Under Non-Bearing Wall

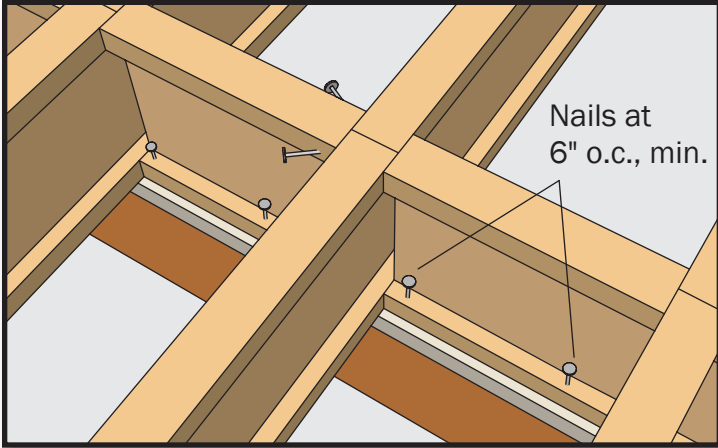


Alternative attachment
of block between joists
at non-bearing walls

Blocking at End of Beam

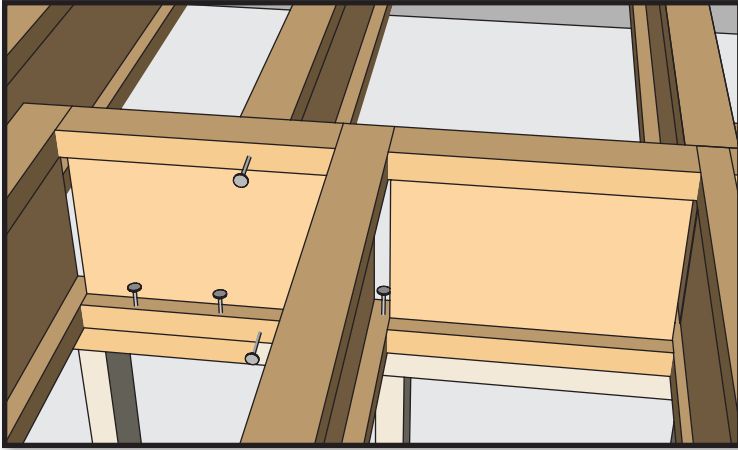


Blocking at Ends of Joists

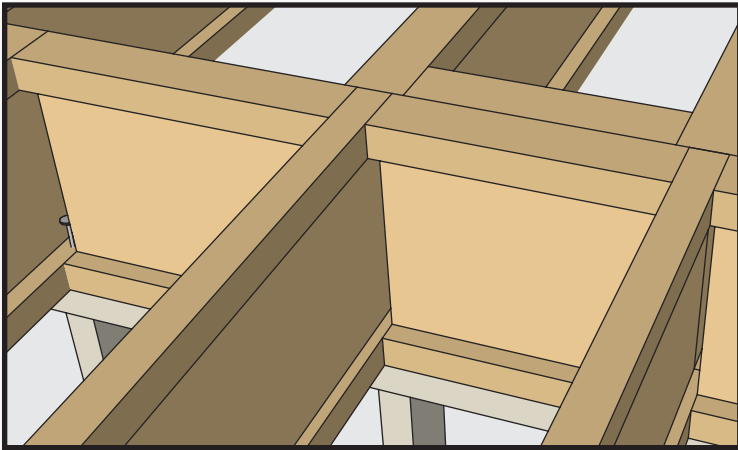


Nails at
6" o.c., min.

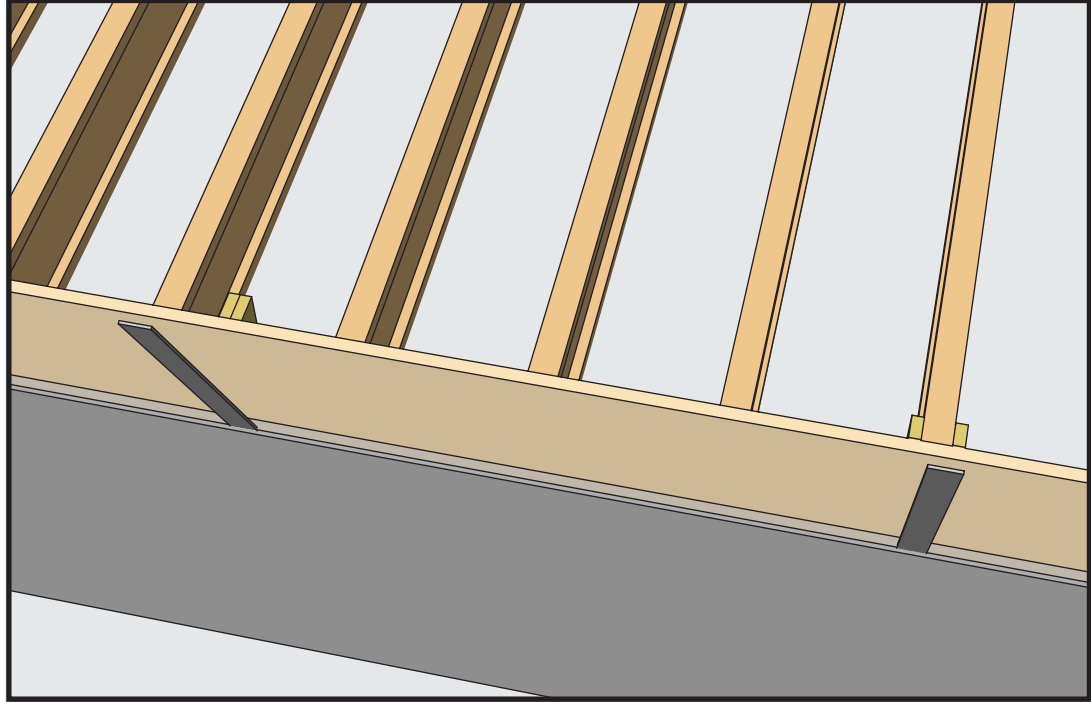
Blocking for Same Joist Series, Different Spacing



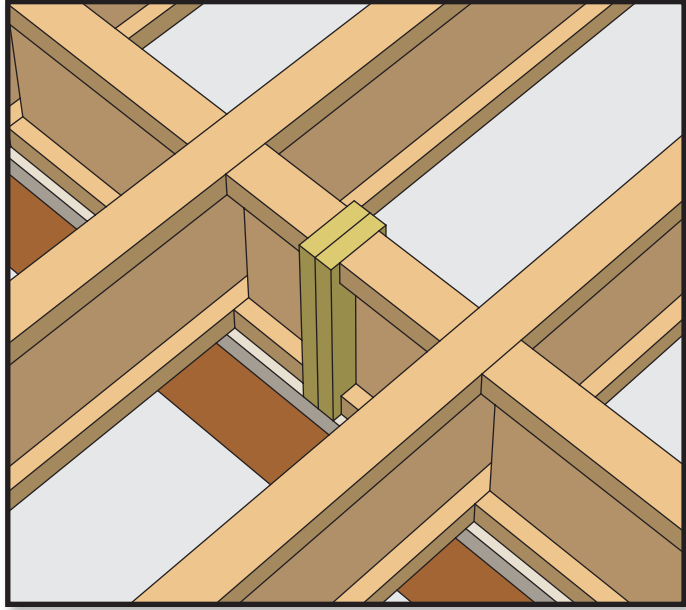
Blocking for Different Joist Series, Same Spacing



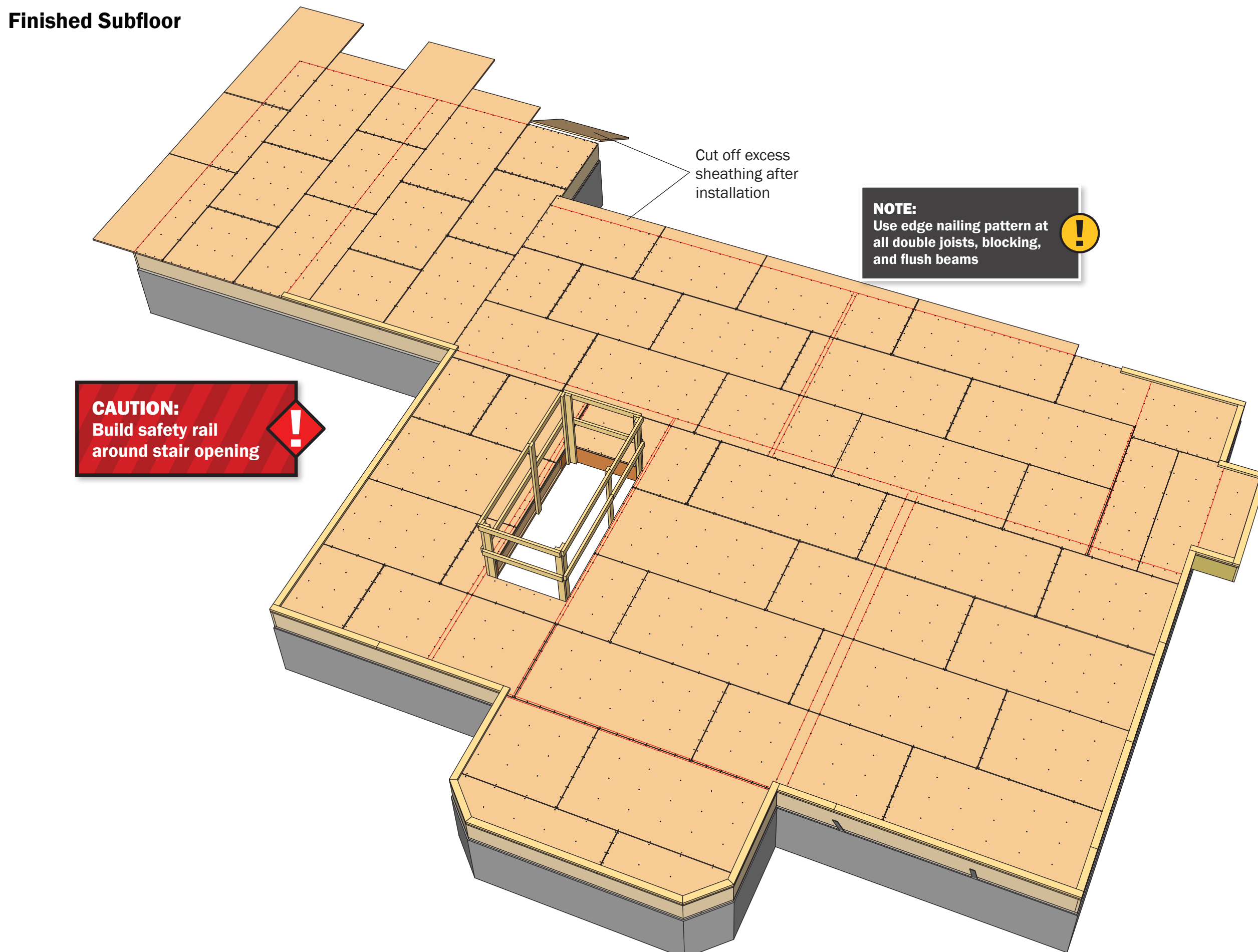
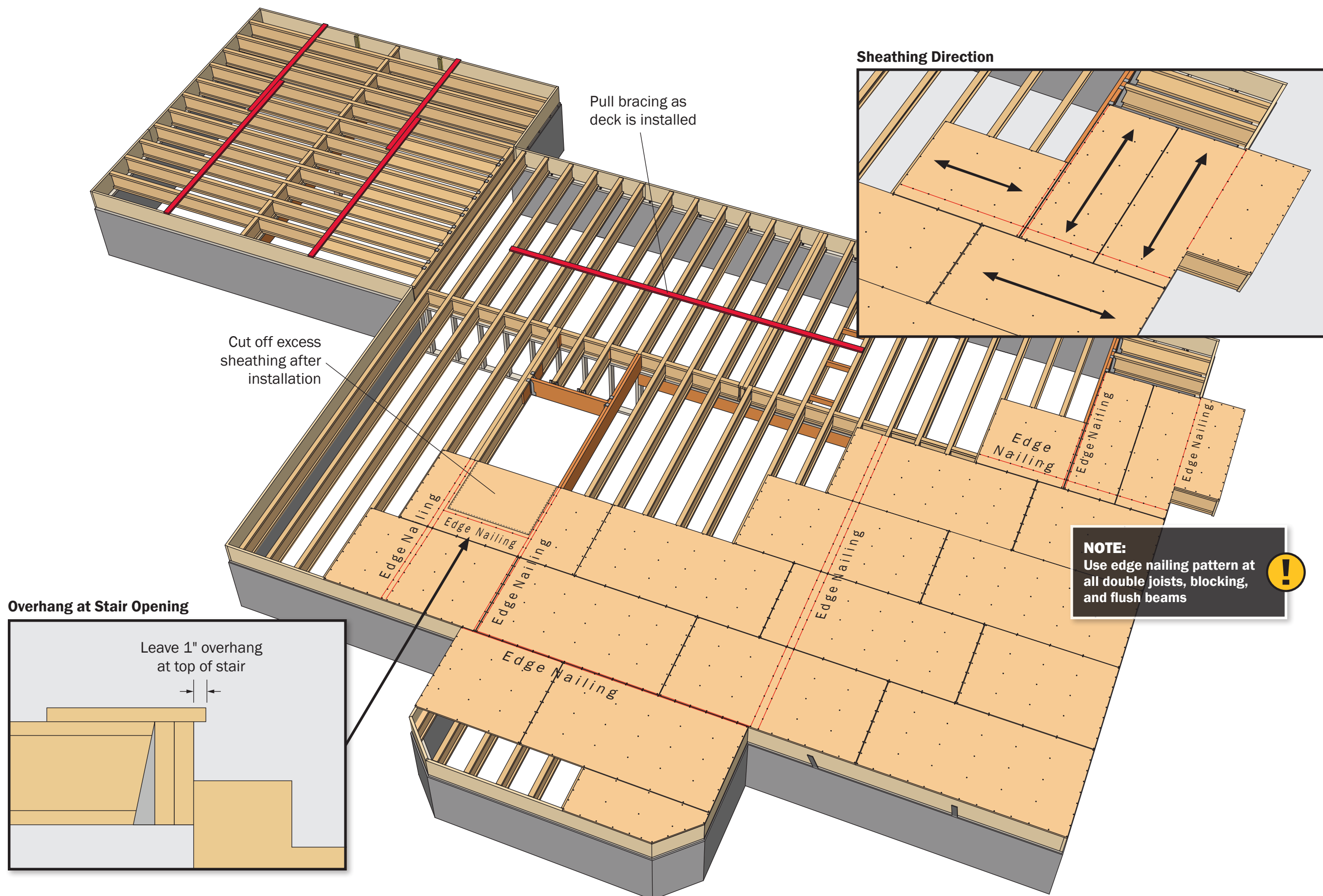
Squash Blocks at Foundation Straps



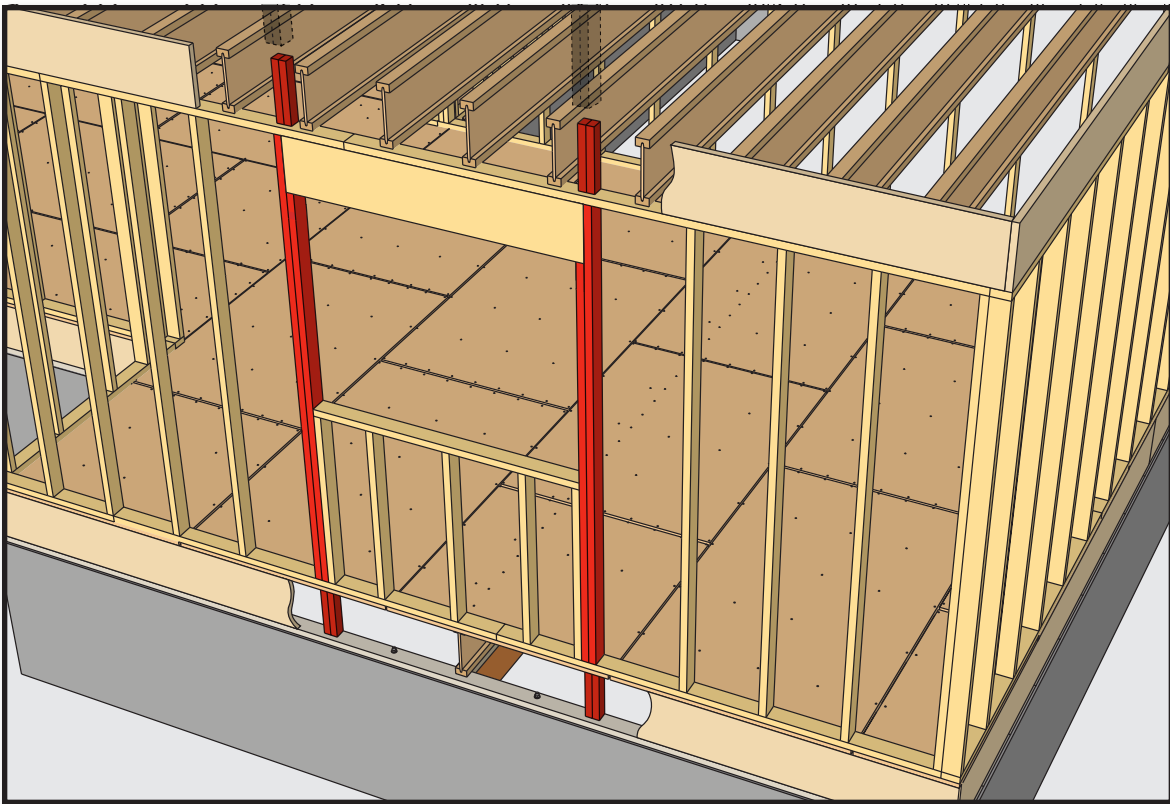
Squash Block at Column



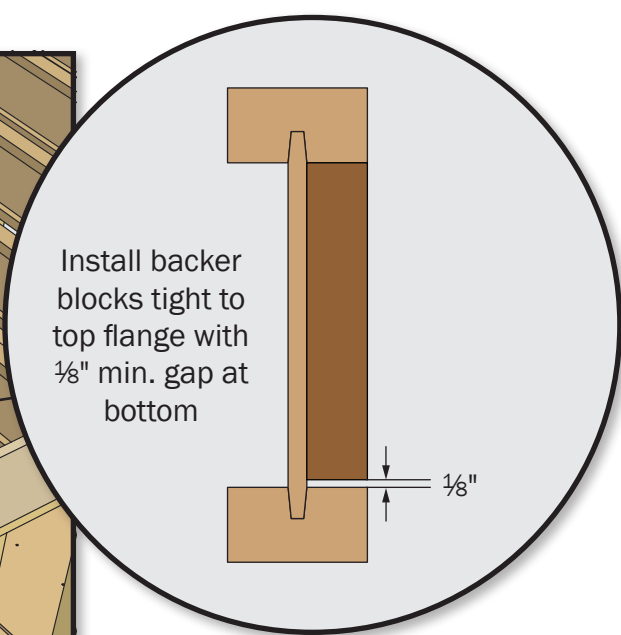
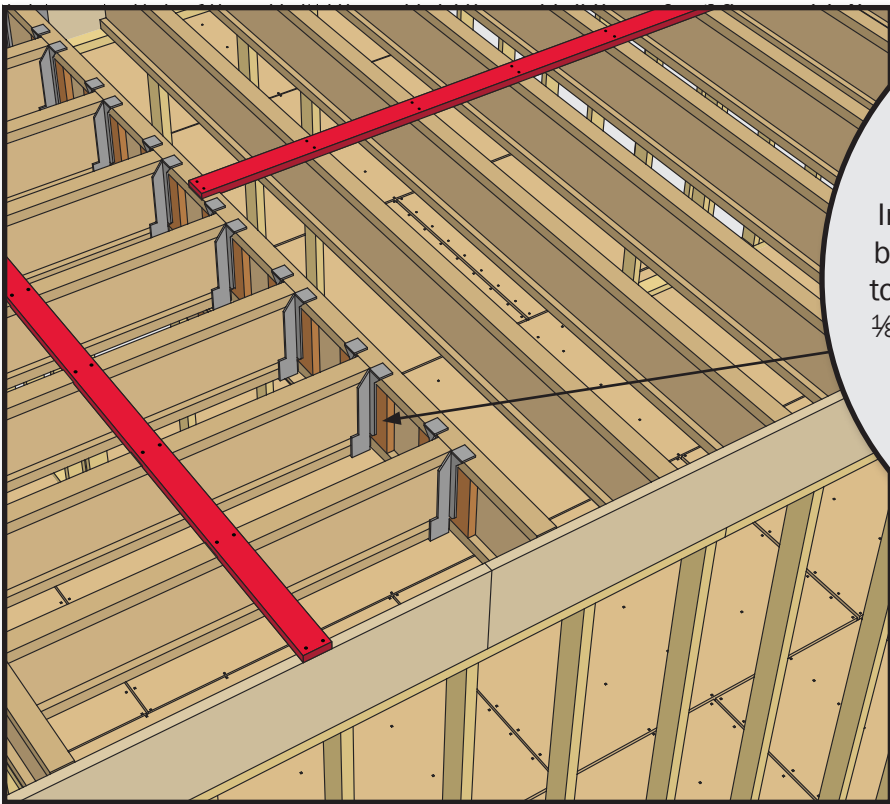
NOTE:
Use galvanized nails to
connect products to treated
lumber sill plates. Not
required with StrandGuard®
TimberStrand® LSL sill plates.



Transfer Continuous Loads to Foundation



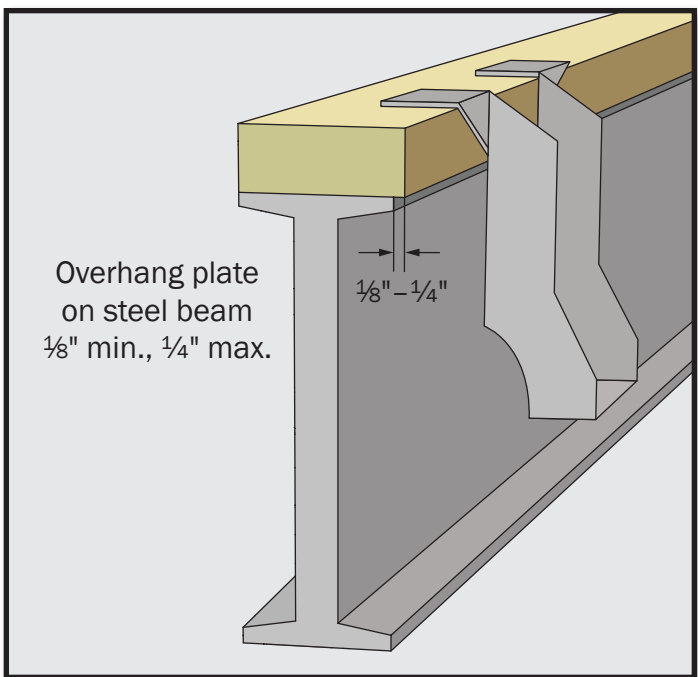
Top Flange Hangers



CAUTION:
Stack sheathing over wall directly supported by foundation



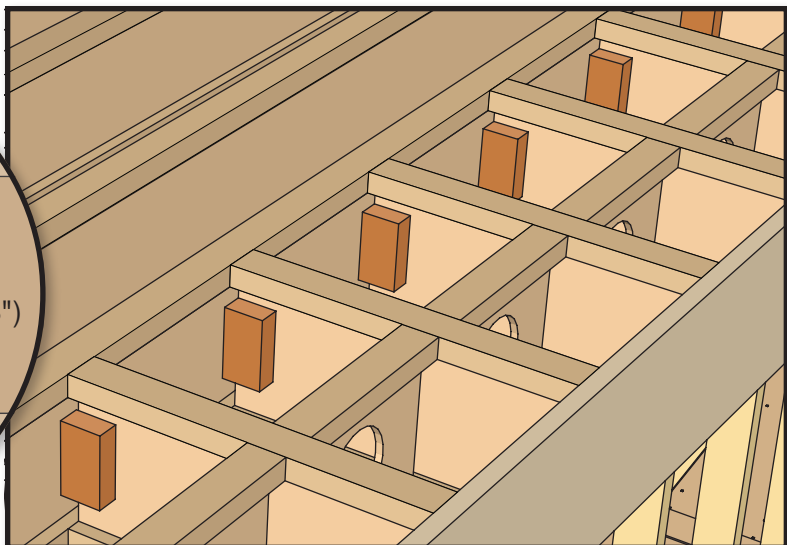
Draft-stop blocking between garage wall and living space



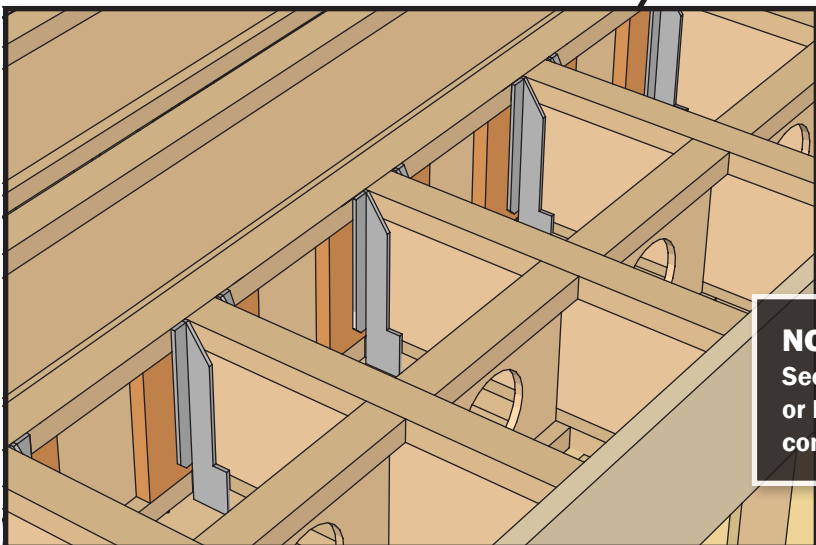
Tall walls not shown (for clarity)

Tall walls not shown (for clarity)

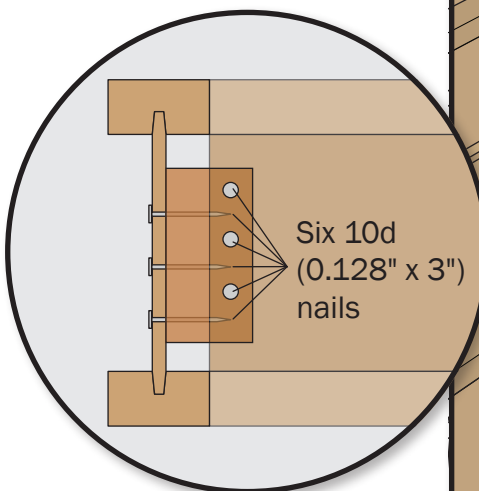
Brick Ledge Cantilever with Blocks (when specified on plans)



Brick Ledge Cantilever with Face Mount Hangers



NOTE:
See engineer's plans or layout plans for connection type



See architect or engineer plans for dimensions and special details

CAUTION:
Spray paint line,
6' from edge

NOTE:
Have monitor
present



Tall walls not shown
(for clarity)

CAUTION:
Build safety rails around
all edges and openings

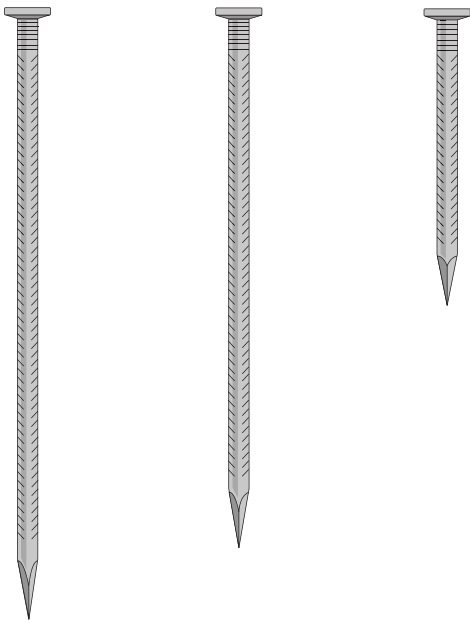
Tall walls not shown
(for clarity)

APPENDIX: NAIL CHART

Please refer to the following chart for all nail sizes and applications in this guide

Application	Nail Direction	Nail Quantity and Specifications
Joist to plate	Face nail	1 - 8d (0.113" x 2½") each side
1½" to 1¼" rim to TJI® joist	Face/end nail	1 - 10 - (0.131" x 3") per flange
Backer blocks	Face nail	15 - (0.131" x 3")
Filler blocks for TJI® 110–360 joists	Face nail	15 - (0.131" x 3"), alternating from each side
Filler blocks for TJI® 560 joist	Face nail	32 - (0.131" x 3½"), half from each side
Rim to plate (minimum)	Toe nail	1 - (0.131" x 3") at 6" o.c.
Weyerhaeuser Edge Gold™ panels 2⅜"	Face nail	8d (0.131" x 2½") nail
Weyerhaeuser Edge Gold™ panels 7⁄8"	Face nail	8d (0.131" x 2½") nail or 8d (0.120" x 2½") deformed nail

16d (0.162" x 3½") **10d** (0.148" x 3") **N10** (0.148" x 1½")



Typical Hanger Nail Sizes