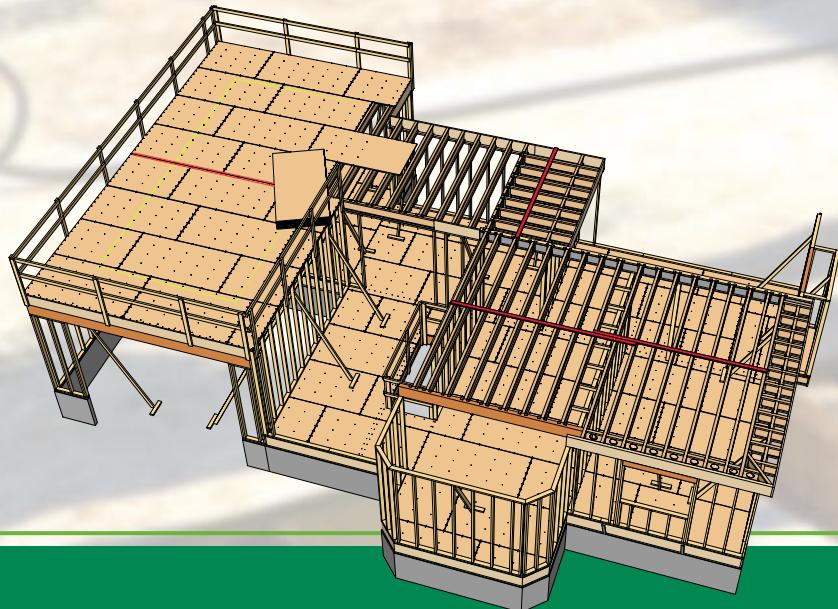




FLOOR FRAMING STANDARDS

A Framer's Guide to the INSTALLATION PROCESS



WEYERHAEUSER FLOOR FRAMING STANDARDS

A Framer's Guide to the INSTALLATION PROCESS

- Safety and Site Preparation
- Stage Materials
- Precut Accessories
- Square and Snap Line for Sill Plate
- Joist, Blocking, and Rim Board Layout
- Install Hangers and Flush Beams
- Install Starter- and End-Wall Rim Board
- Install Joists, Accessories, and Safety Bracing
- Install Subfloor
- Frame Second Floor
- Sheath Second Floor
- Nail Chart

- Step 1
- Step 2
- Step 3
- Step 4
- Step 5
- Step 6
- Step 7
- Steps 8-9
- Steps 10-11
- Step 12
- Step 13
- Appendix

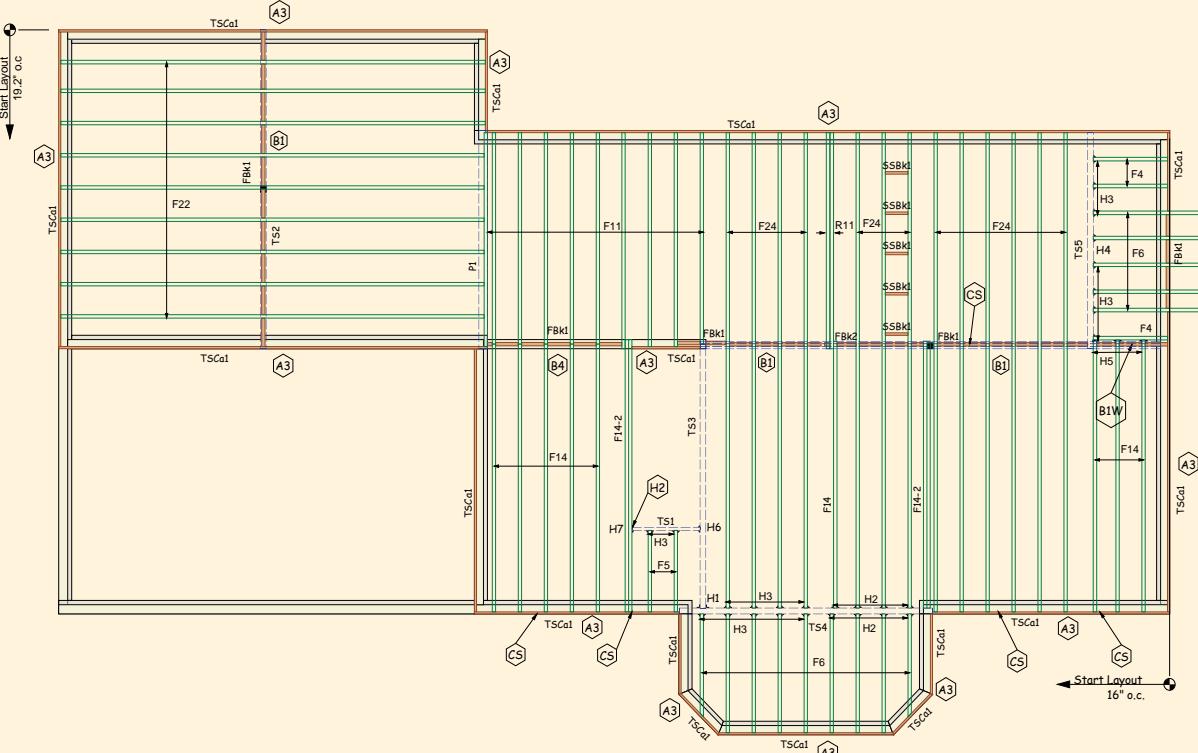


Refer to the Trus Joist® Installation Guide for all construction details.

Weyerhaeuser Layout Drawing – For Product Reference Only.



Framing Connector Summary										
Plot 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	HGU5412	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
H3	18	SST	IUS2.06/11.88	10- 10d x 1-1/2	-	-	-	- LSL	No	11 7/8" TJI 210
H4	1	SST	IUS2.06/11.88	10- 10d common	-	1- Simpson SD8x1.25 screw installed thru the seat of the hanger	-	- UJOIST	No	11 7/8" TJI 210
H5	3	SST	IUS2.06/11.88	10- 10d common	-	-	-	- UJOIST	2	11 7/8" TJI 210
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	-	- UJOIST	1	1 3/4" x 11 7/8" TimberStrand® LSL Beam (1.55E) No



Products		
PlotID	Length	Product
F24	24' 0"	11 7/8" TJI 210
F22	22' 0"	11 7/8" TJI 210
F14	14' 0"	11 7/8" TJI 210
F14-2	14' 0"	11 7/8" TJI 210
F11	11' 0"	11 7/8" TJI 210
F6	6' 0"	11 7/8" TJI 210
F5	5' 0"	11 7/8" TJI 210
F4	4' 0"	11 7/8" TJI 210
R11	11' 0"	11 7/8" TJI 360
TSCA1	16' 0"	1 1/4" x 11 7/8" 1.3E TimberStrand LSL
TS1	4' 0"	1 3/4" x 11 7/8" TimberStrand® LSL Beam (1.55E)
TS2	16' 0"	3 1/2" x 11 7/8" TimberStrand® LSL Beam (1.55E)
TS3	14' 0"	3 1/2" x 11 7/8" TimberStrand® LSL Beam (1.55E)
TS4	13' 0"	3 1/2" x 11 7/8" TimberStrand® LSL Beam (1.55E)
TS5	11' 0"	3 1/2" x 3 1/2" 1.8E Parallel PSL
PP11	4' 0"	5 1/4" x 11 7/8" 2.0E Parallel PSL
P1	11' 0"	5 1/4" x 11 7/8" 2.0E Parallel PSL

Accessories		
PlotID	Length	Product
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
FBK1	2' 0"	11 7/8" TJI 210
FBK1	1' 0"	11 7/8" TJI 210
FBK1	1' 0"	11 7/8" TJI 210
SSBK1	2' 0"	2 X 4 DF Stud

Sample Residence

Job # 658-426

Good Builders, Inc.

ABC Lumber

(800) 555-0000

See architect or engineer plans for dimensions and special details

Weyerhaeuser

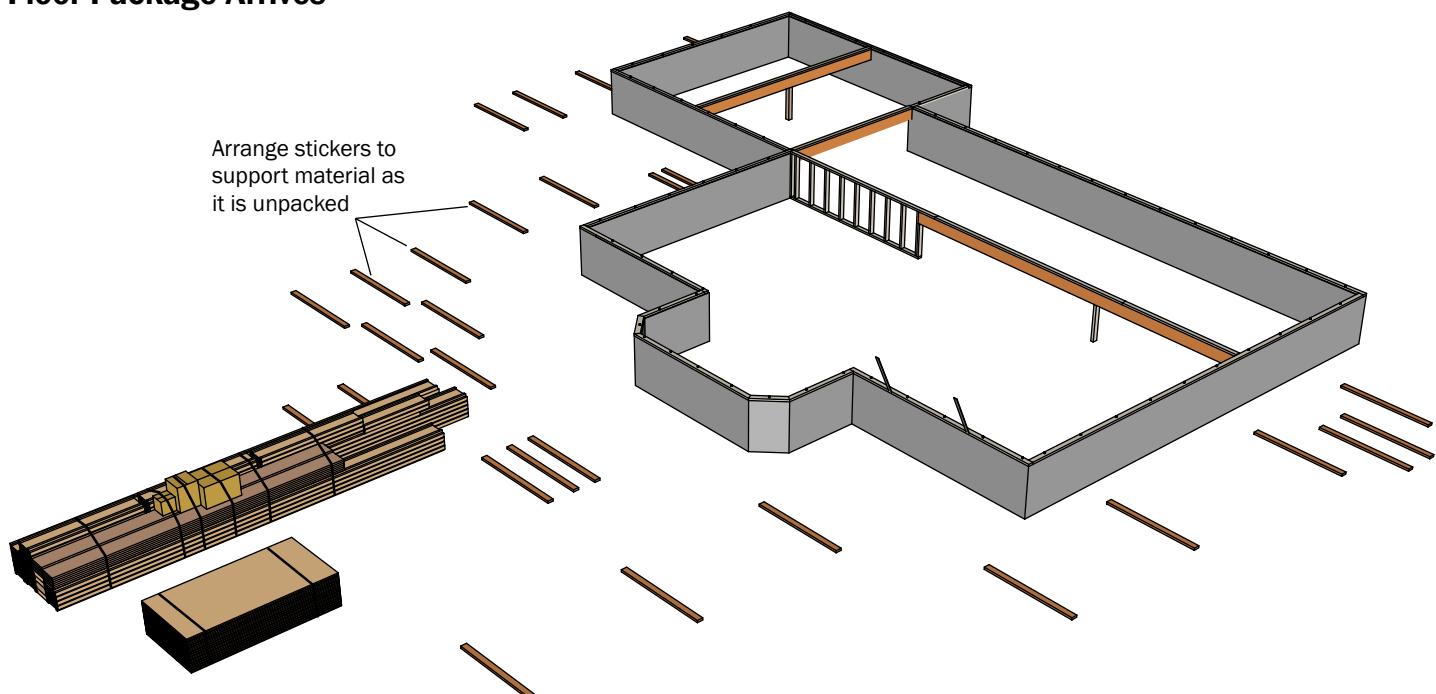
SAFETY AND SITE PREPARATION

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

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

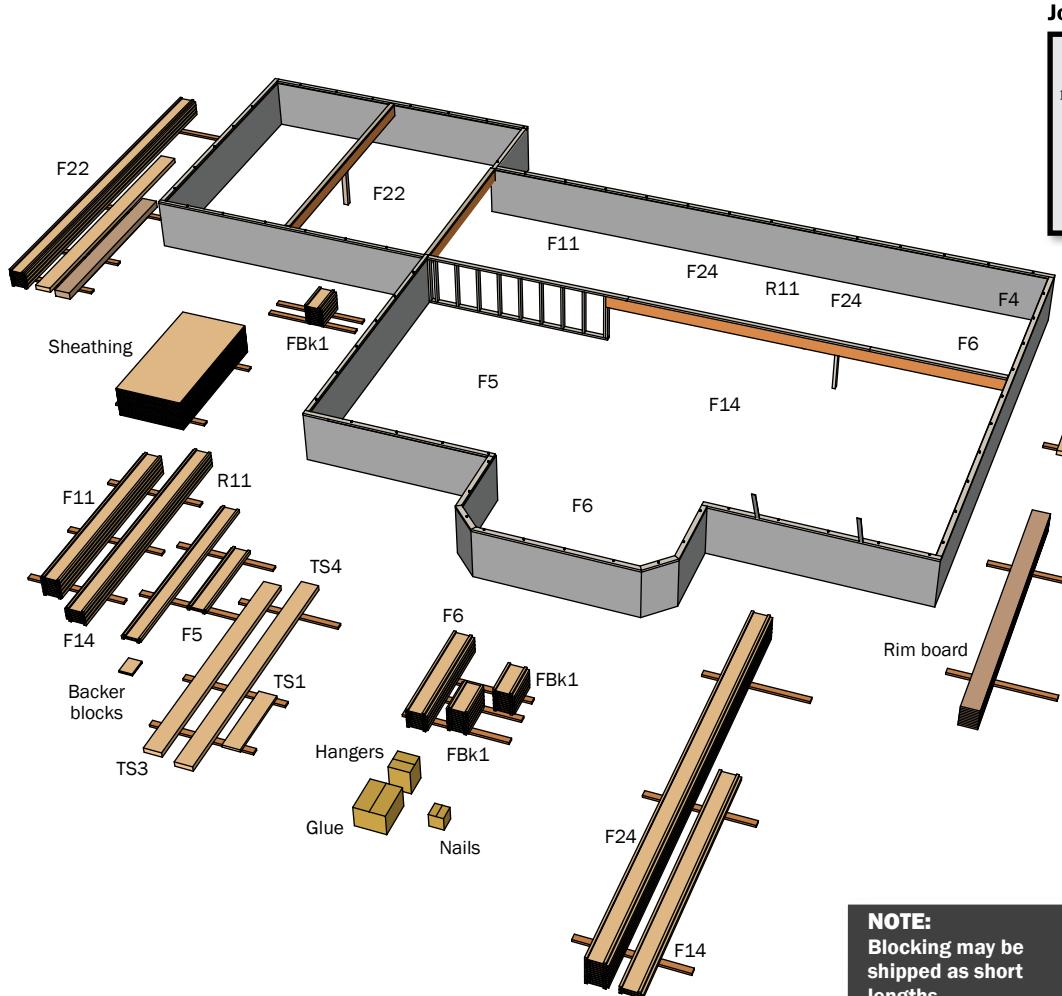
La Sécurité Avant Tout
AVERTISSEMENT
Lire Attentivement

- Les solives non contreventées latéralement sont instables. Voir la guilde 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.

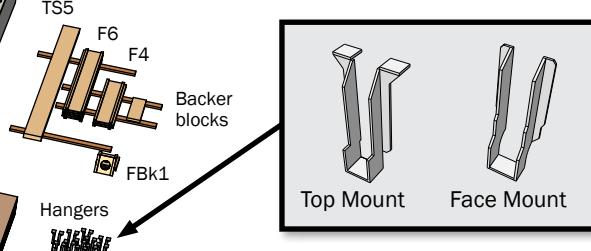
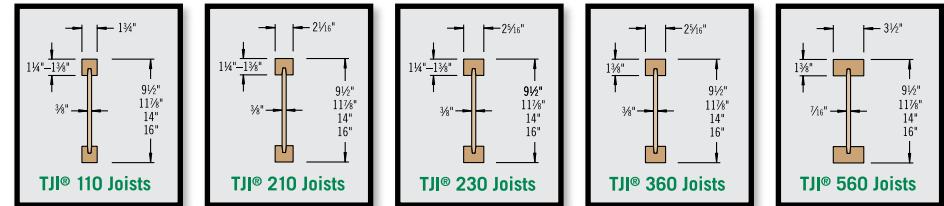
La Seguridad Ante Todo
ADVERTENCIA
Per Favor, Los Cuidadosamente

- Las viguetas son instables 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.

STAGE MATERIALS



Joist Identification



NOTE:
Blocking may be
shipped as short
lengths

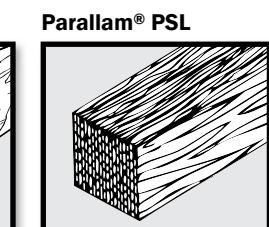
Products			
PlotID	Length	Product	Piles Net Qty
F24	24' 0"	11 7/8" TJI 210	1 13
F22	22' 0"	11 7/8" TJI 210	1 9
F14	14' 0"	11 7/8" TJI 210	1 9
F14-2	14' 0"	11 7/8" TJI 210	2 4
F11	11' 0"	11 7/8" TJI 210	1 10
F6	6' 0"	11 7/8" TJI 210	1 14
F5	5' 0"	11 7/8" TJI 210	1 2
F4	4' 0"	11 7/8" TJI 360	1 3
R11	11' 0"	11 7/8" TJI 360	1 2
TS24a1	16' 0"	1 1/4" x 11 7/8" 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	12' 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
PPT1	4' 0"	3 1/2" x 3 1/2" 2.0E Parallam PSL	1 1
P1	11' 0"	5 1/4" x 11 7/8" 2.0E Parallam PSL	1 1

Accessories			
PlotID	Length	Product	Piles Net Qty
FBk1	1' 8 15/16"	23/32" Backer Blocks	1 2
FBk1	1' 0"	23/32" Backer Blocks	1 3
FBk2	2' 0"	1 7/8" net Filler Blocks	1 1
SSBK1	2' 0"	2 X 4 DF Stud	1 5
		23/32" x48"x96" OSB Weyerhaeuser Edge (0/24) T&G FF PSL	41

Blocking			
PlotID	Length	Product	Piles Net Qty
FBk1	2' 0"	11 7/8" TJI 210	33
FBk1	1' 0"	11 7/8" TJI 210	6
FBk2	1' 0"	11 7/8" TJI 210	1
SSBK1	2' 0"	2 X 4 DF Stud	5

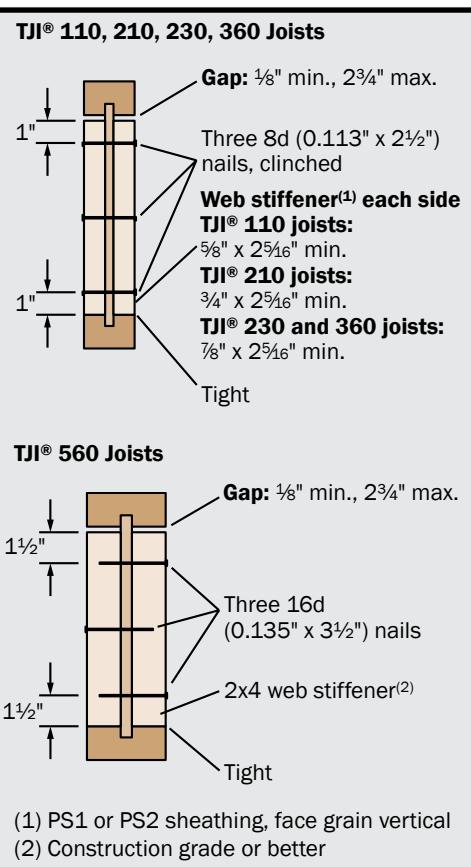


Sample Residence
Job # 658-426
Good Builders, Inc.
ABC Lumber
(800) 555-0000

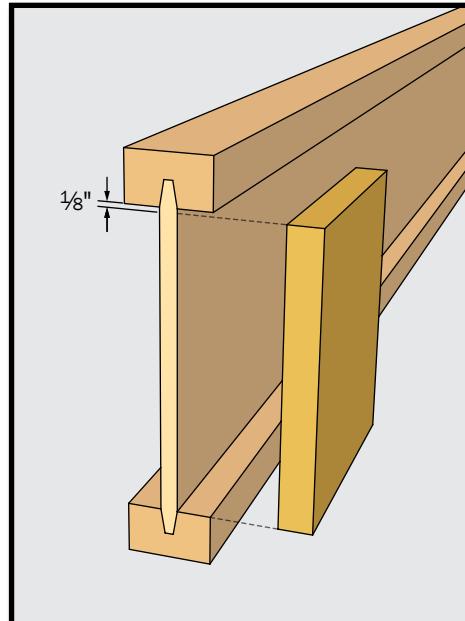


See architect or engineer plans for dimensions and special details

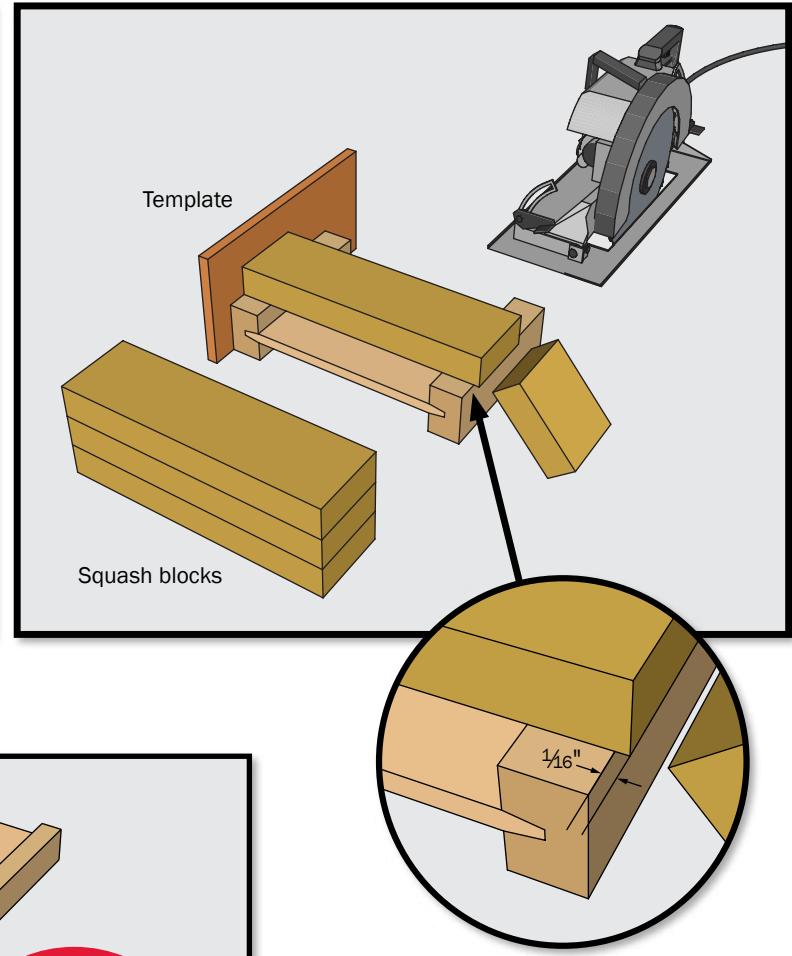
Web Stiffeners



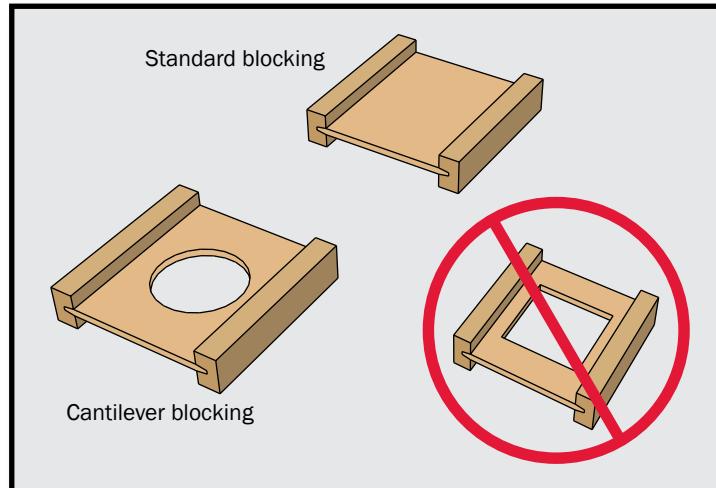
Cutting Web Stiffeners



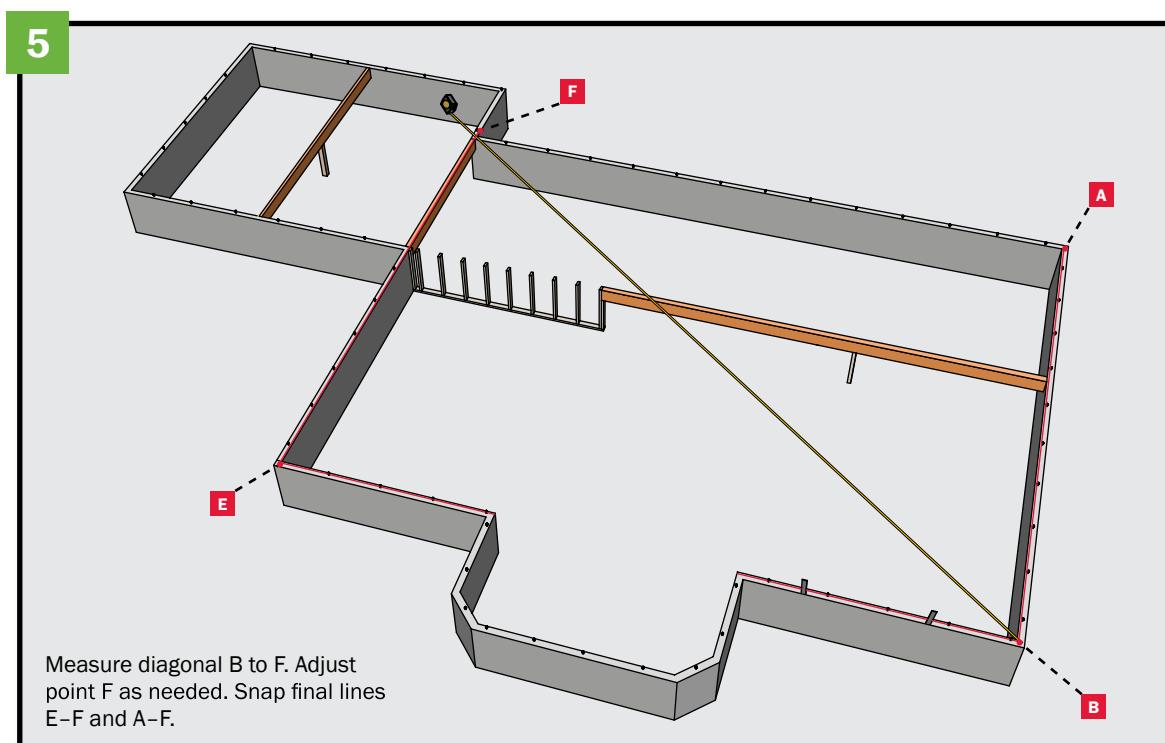
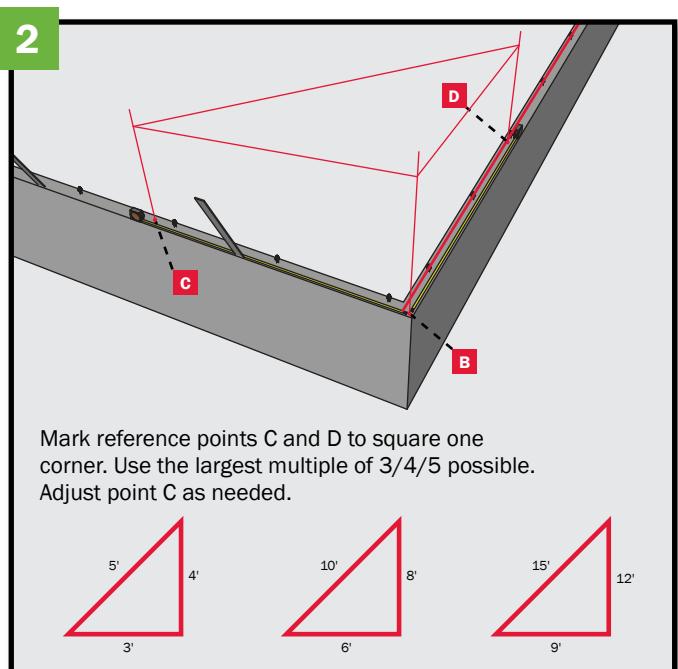
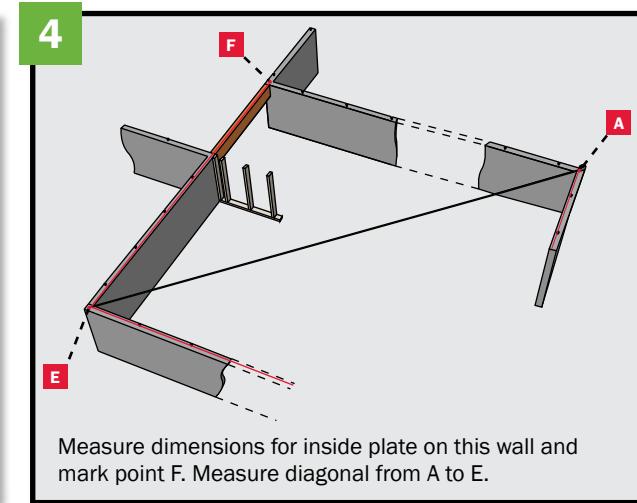
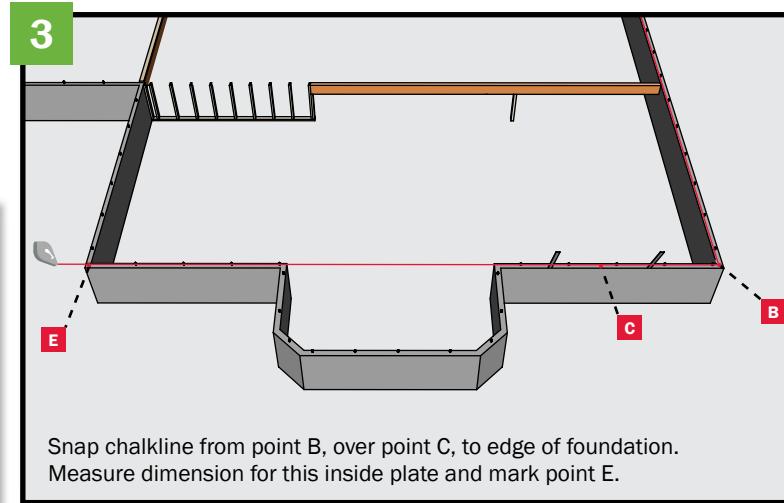
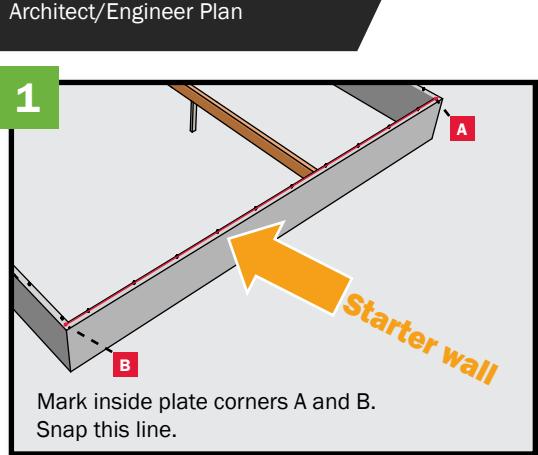
Cutting Squash Blocks



Cutting Blocking Panels



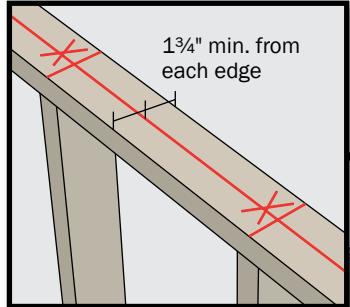
SQUARE AND SNAP LINE FOR SILL PLATE



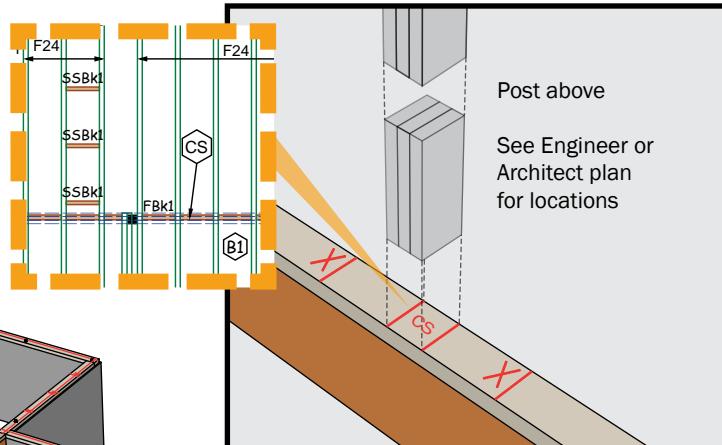
See architect or engineer plans for dimensions and special details

JOIST, BLOCKING, AND RIM BOARD LAYOUT

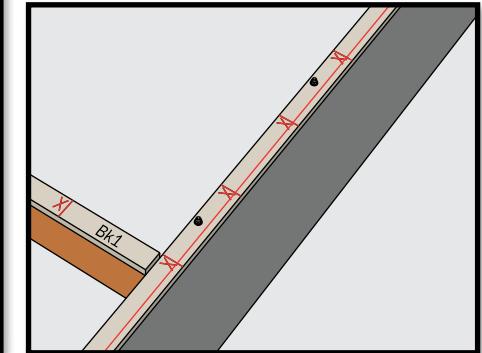
Snap Line at Butted Joist



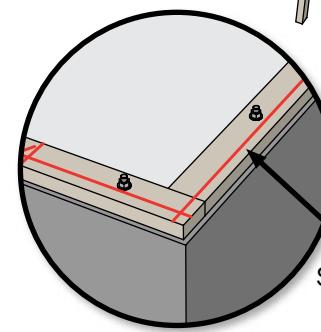
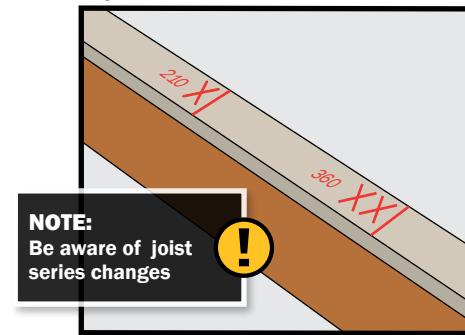
Layout Squash Blocks



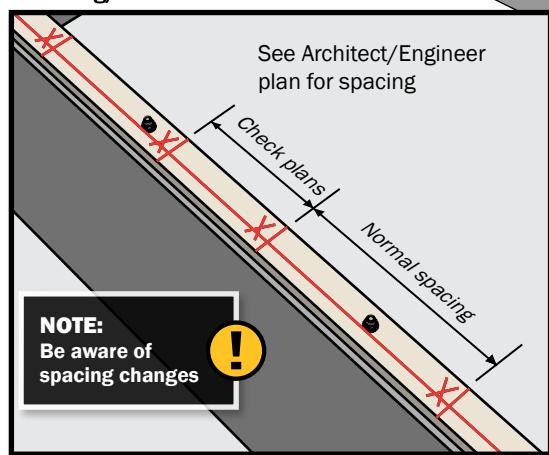
Layout Blocking Panels



Layout Joists

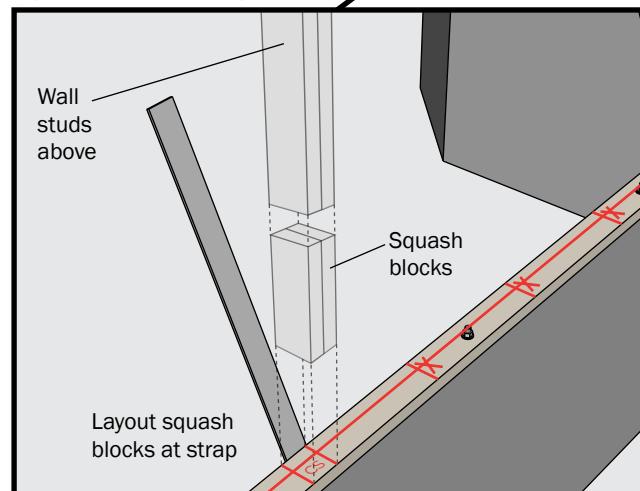


Plumbing/Mechanical Offsets

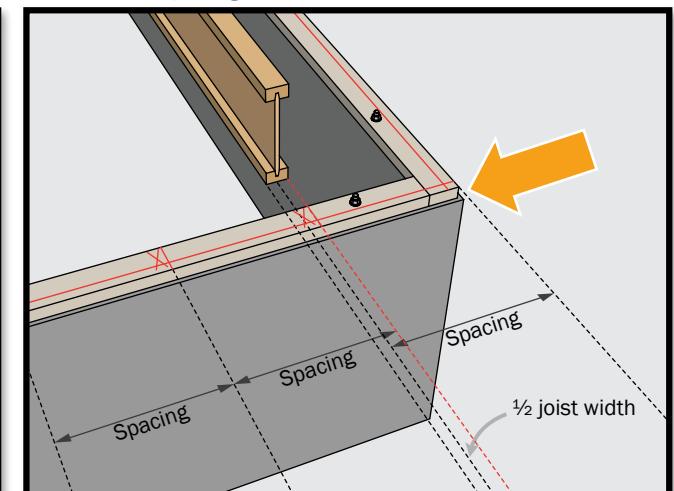


Start layout here

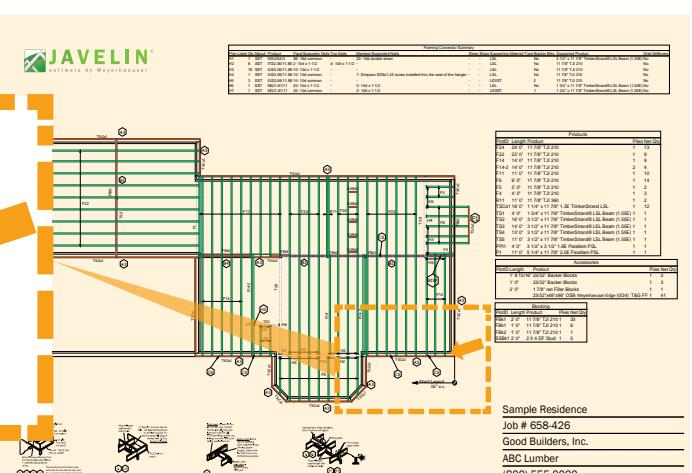
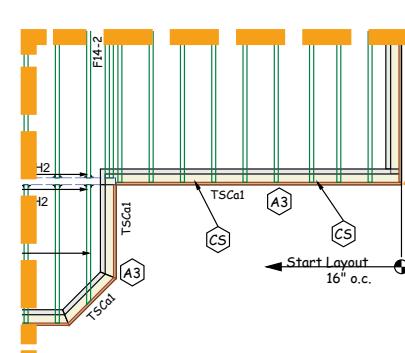
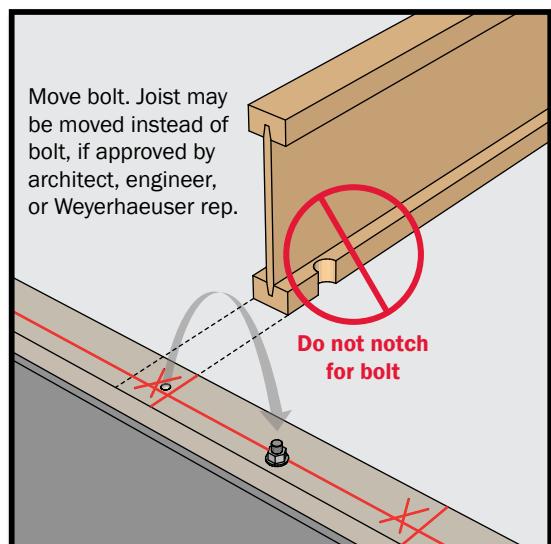
Squash Blocks at Strap



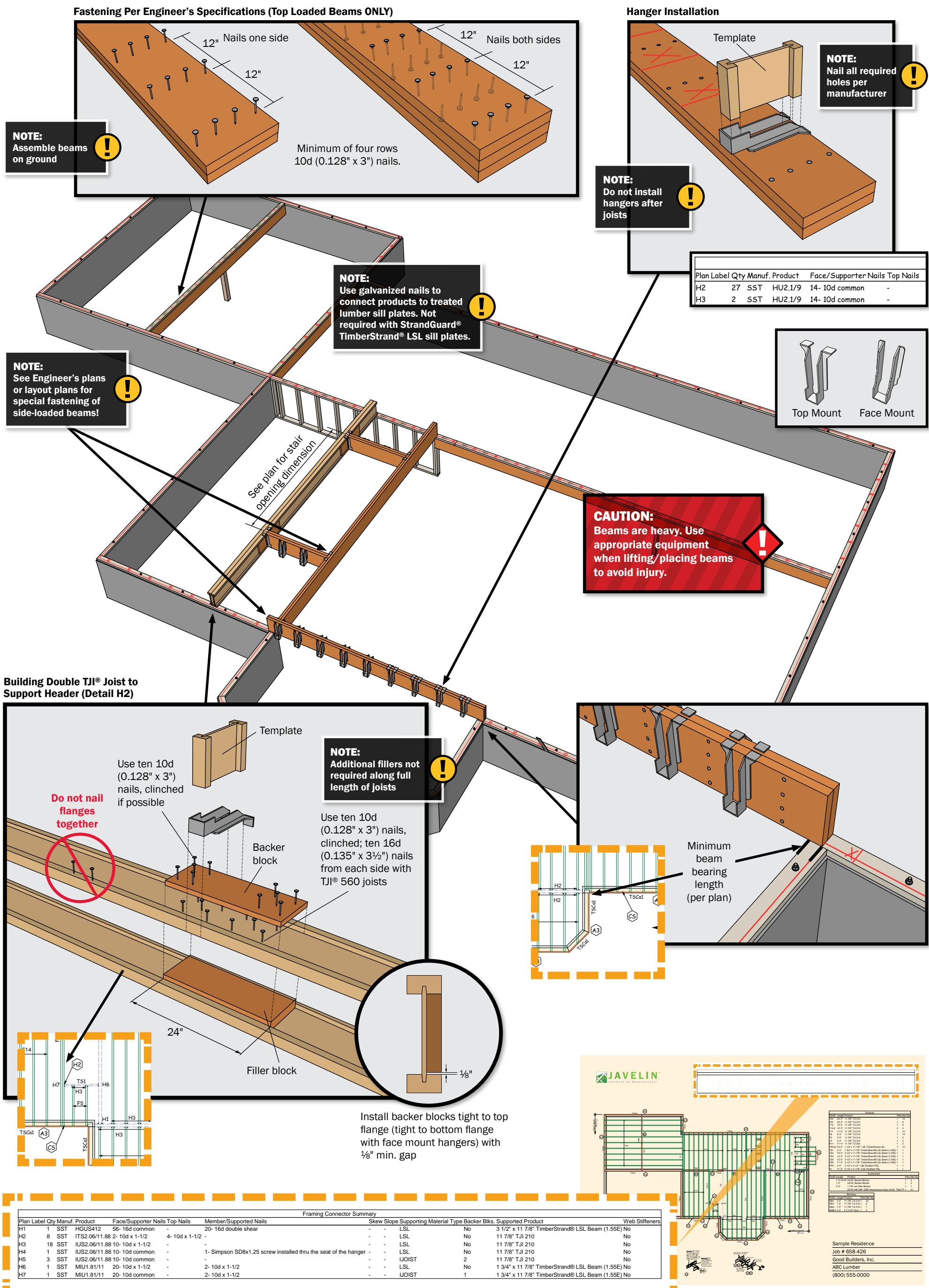
Normal Joist Spacing



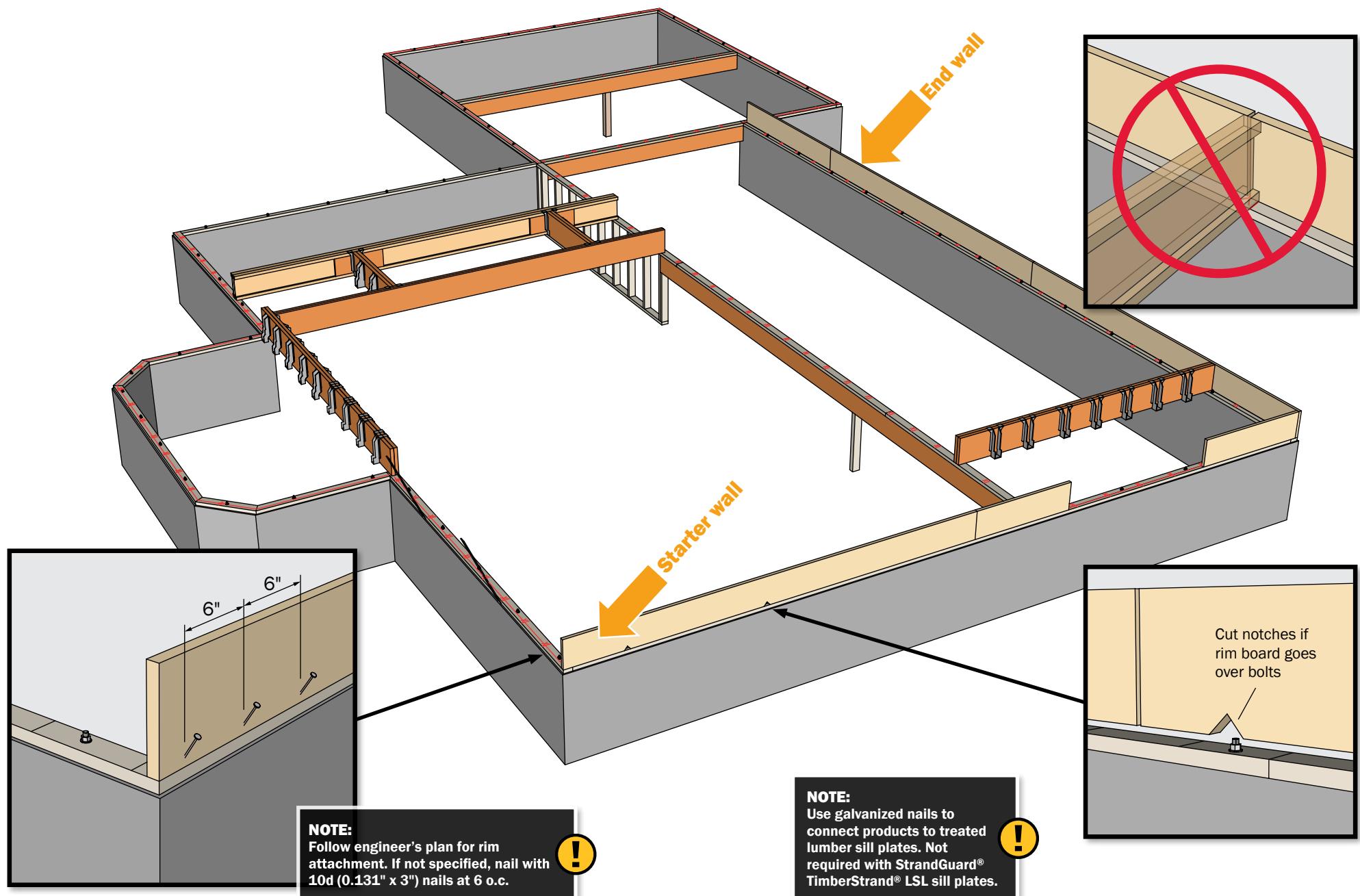
Bolt at Joist Location



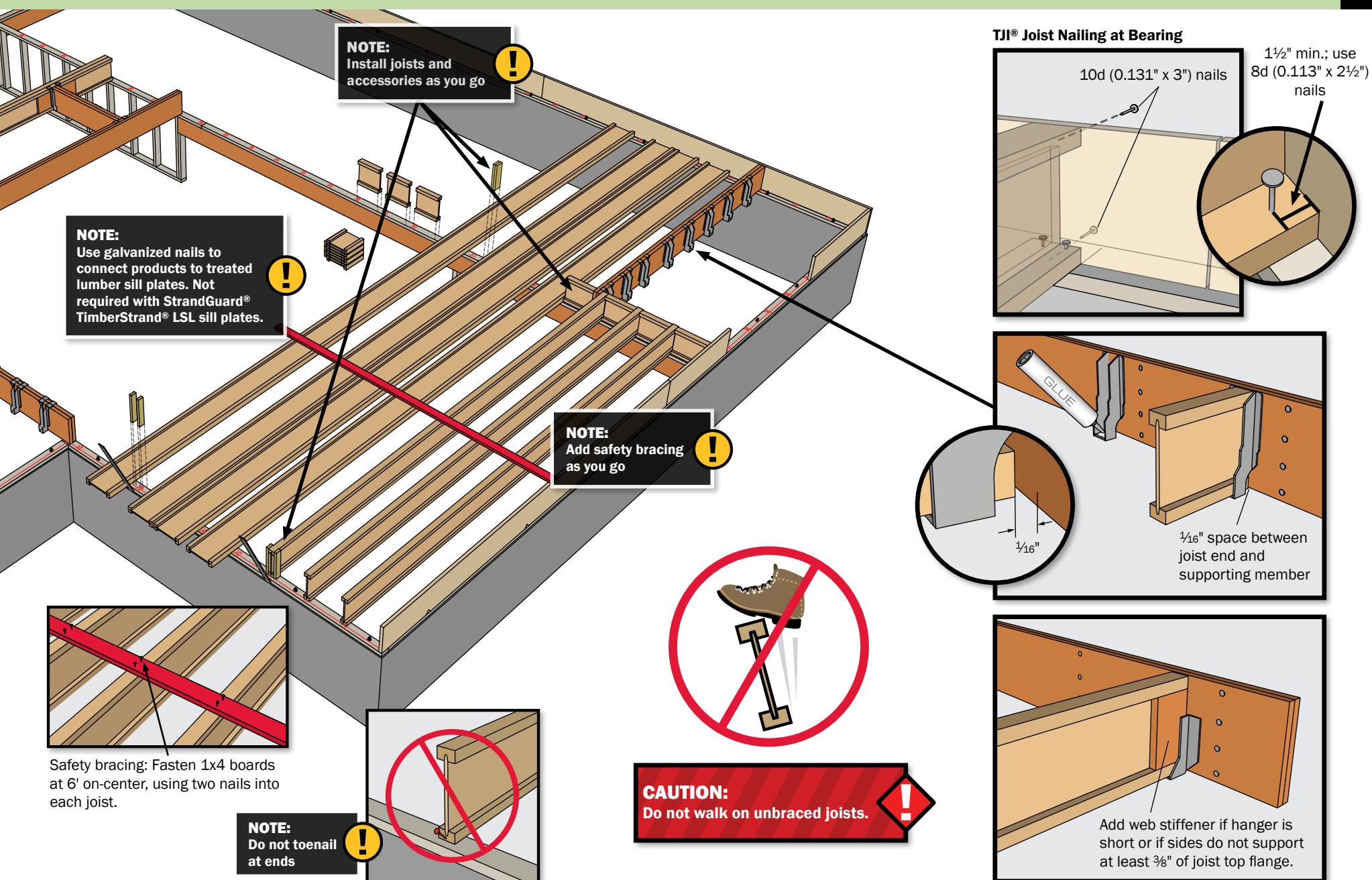
INSTALL HANGERS AND FLUSH BEAMS



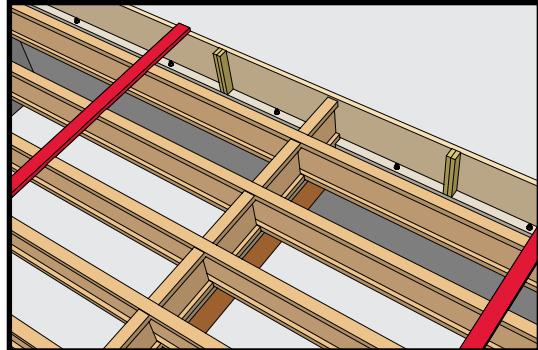
See architect or engineer plans for dimensions and special details



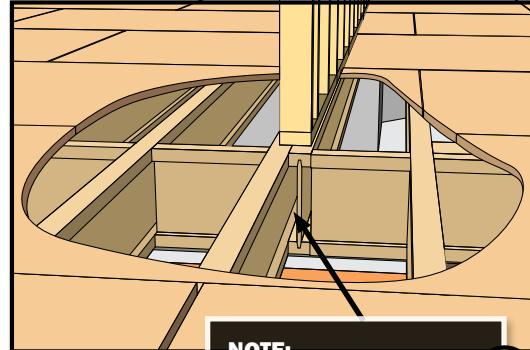
INSTALL JOISTS, ACCESSORIES, AND SAFETY BRACING



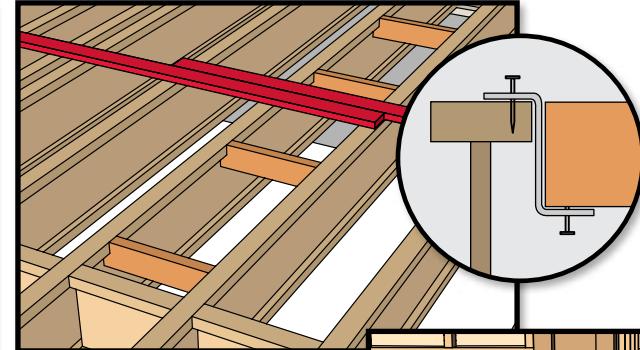
Squash Blocks at Multiple Studs from Above



Double Joist Under Shear or Braced Wall

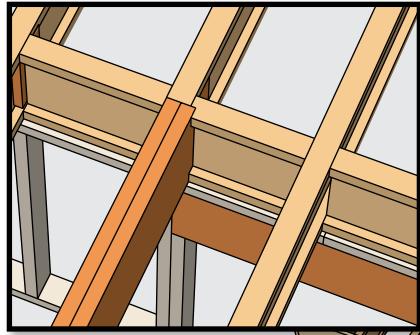


Joists Under Non-Bearing Wall

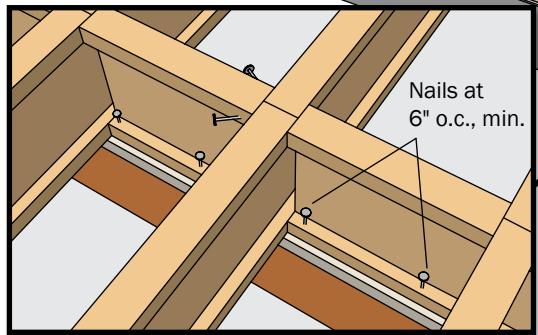


Alternative attachment of block between joists at non-bearing walls

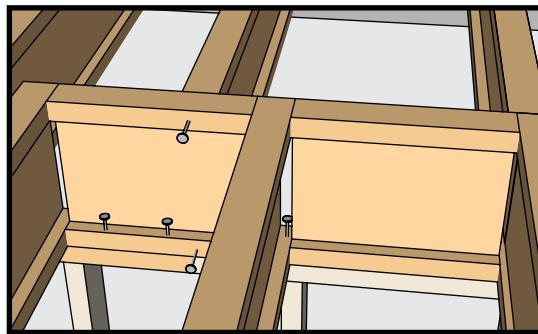
Blocking at End of Beam



Blocking at Ends of Joists

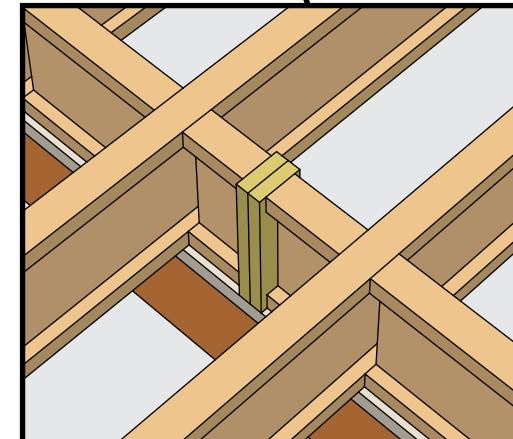


Blocking for Same Joist Series, Different Spacing



NOTE:
Check nailing criteria
(see Appendix)

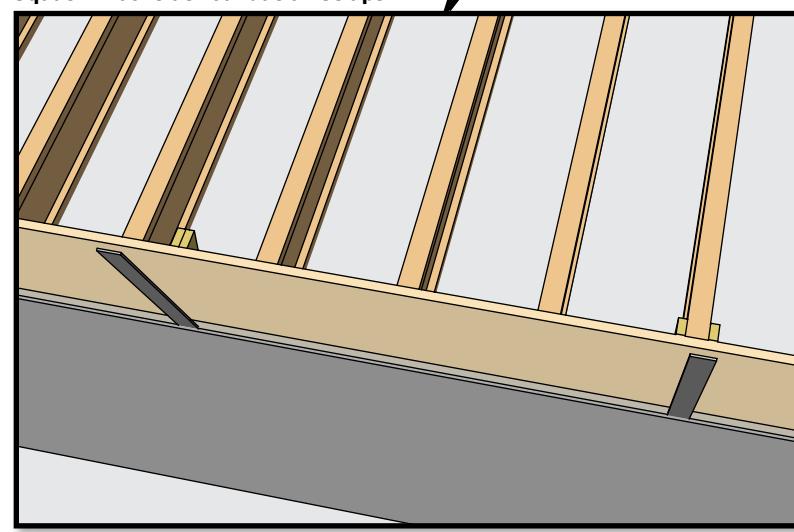
Squash Block at Column



Blocking for Different Joist Series, Same Spacing

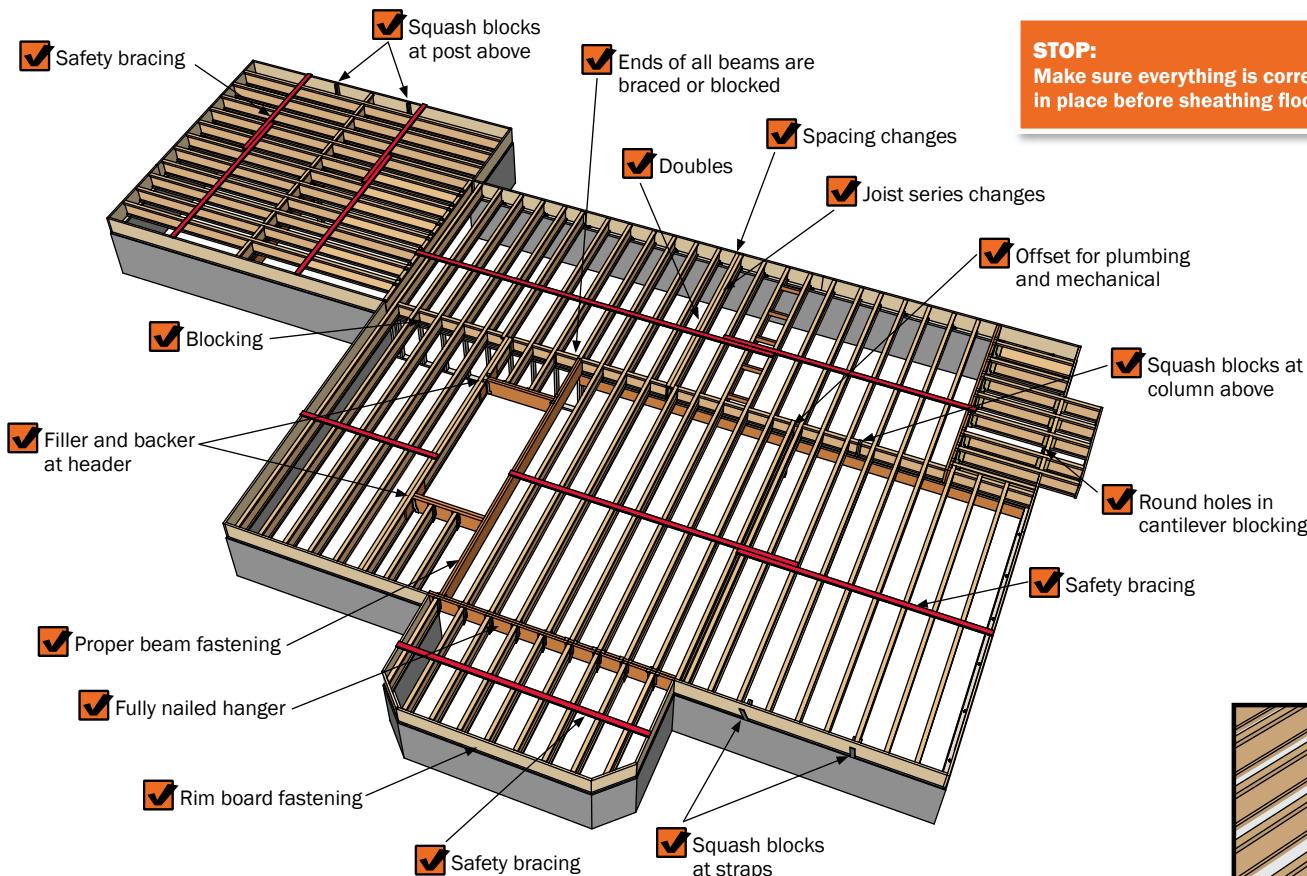


Squash Blocks at Foundation Straps



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

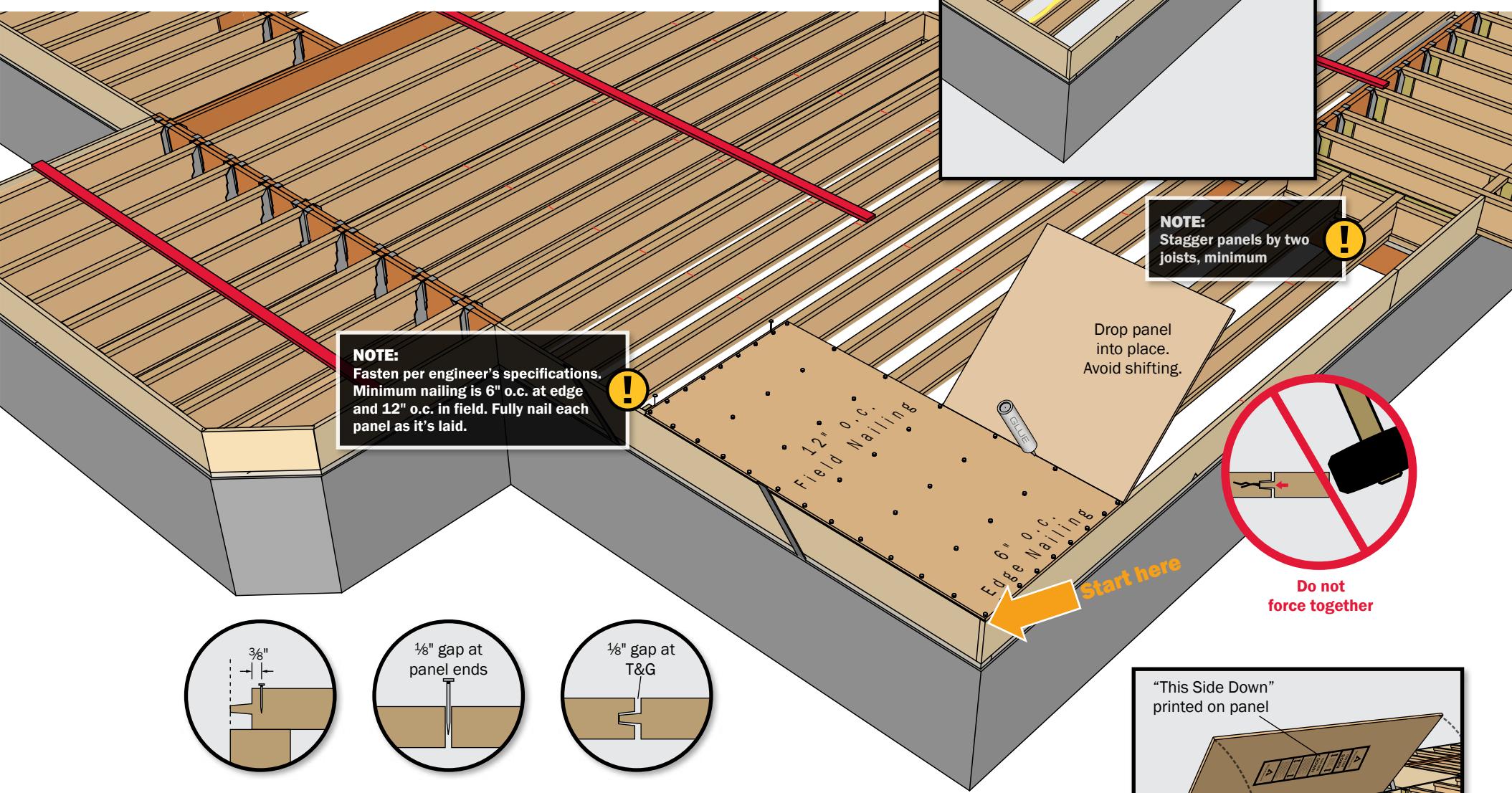
Final Check Before Subfloor



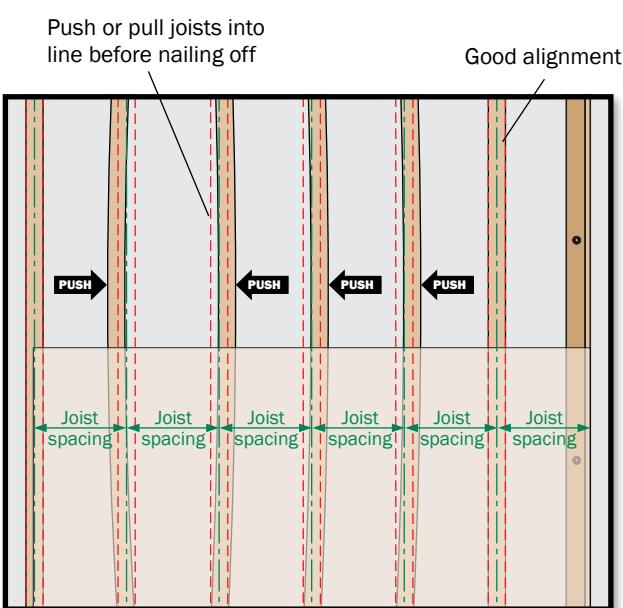
STOP:
Make sure everything is correct and
in place before sheathing floor



CAUTION:
Do not walk on unbraced joists.



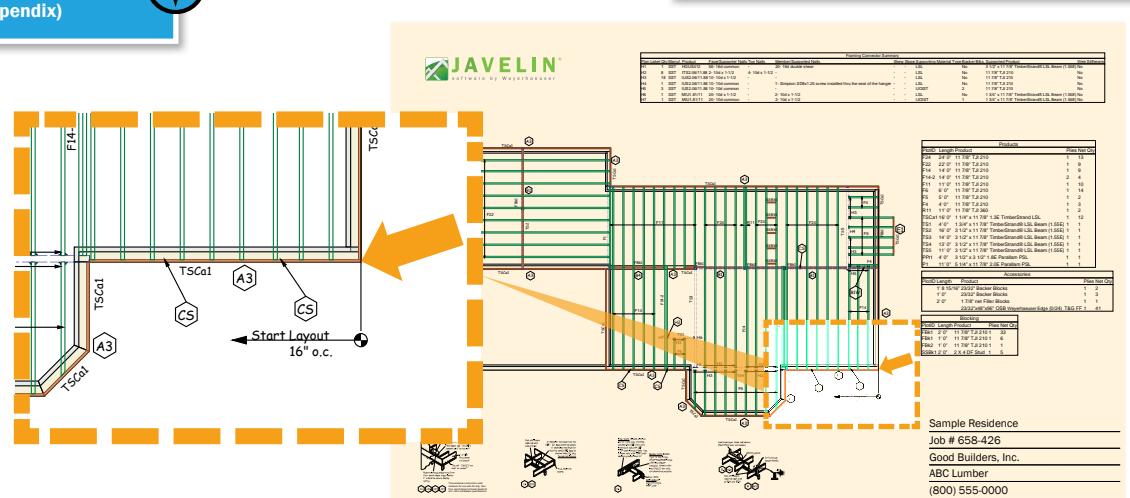
NOTE:
Apply only enough adhesive to set one or two panels at a time



Good alignment

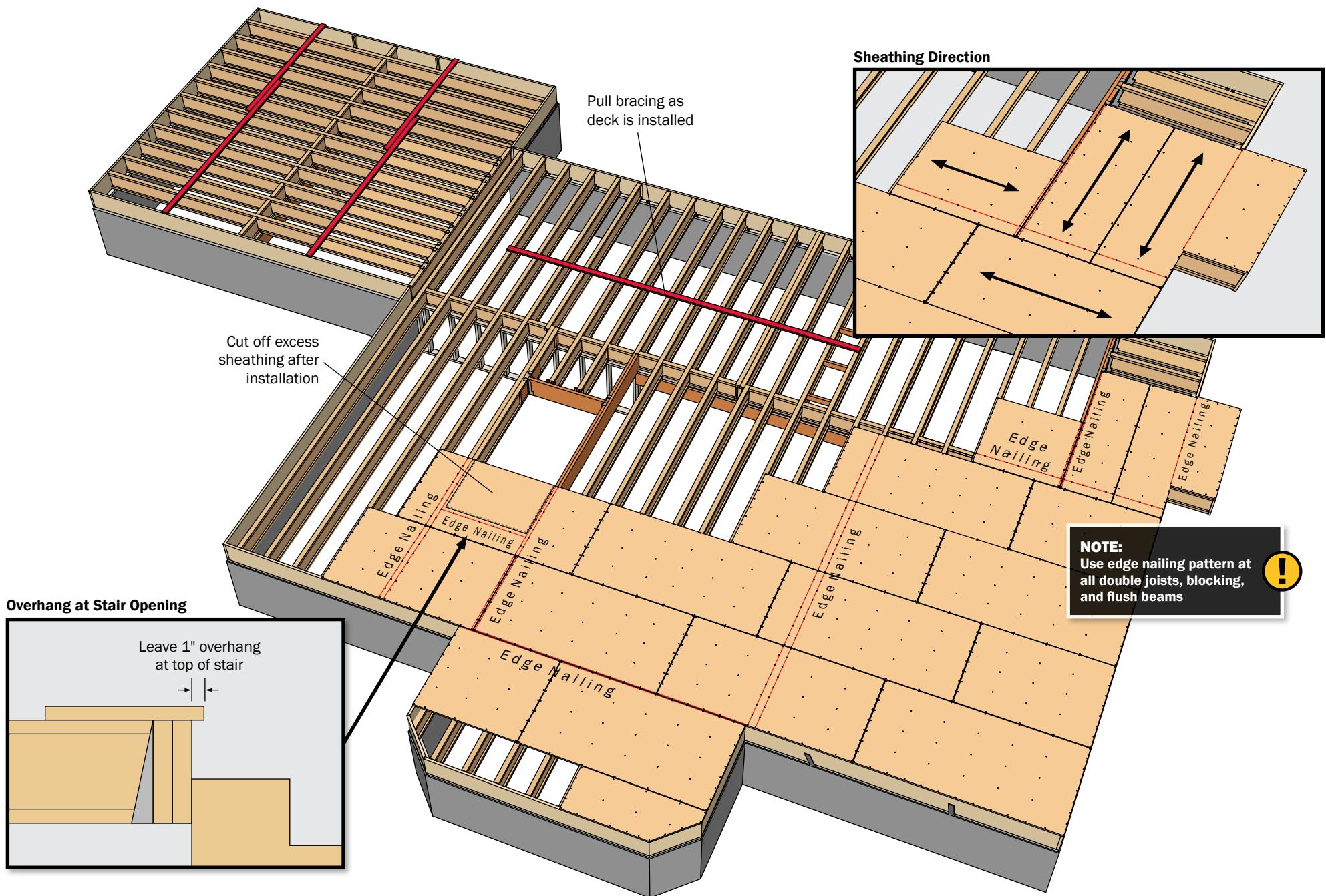
NOTE:
Check nailing criteria
(see Appendix)

NOTE:
Make sure the first sheet is perfectly square at edges



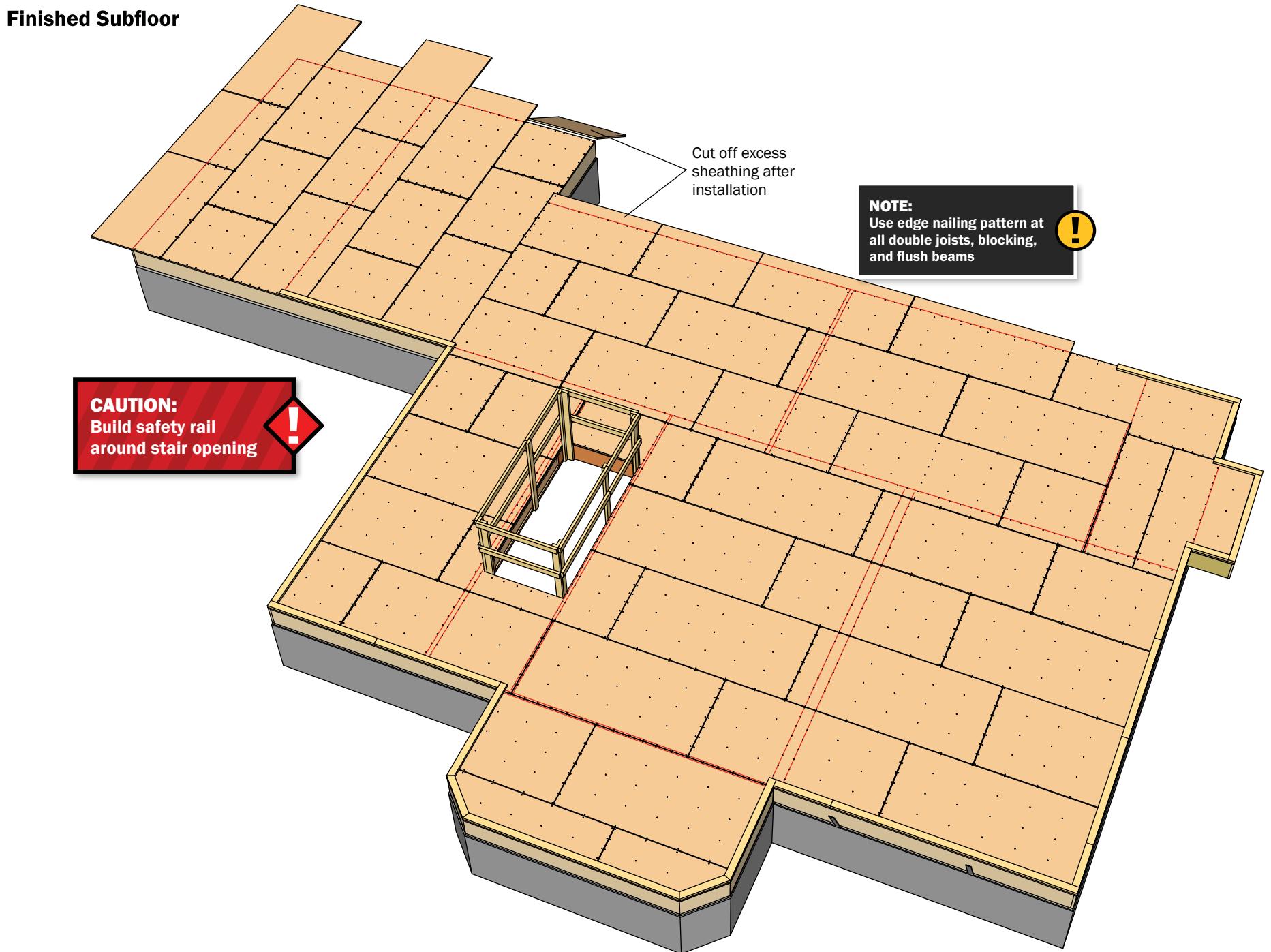
See architect or engineer plans for dimensions and special details

INSTALL SUBFLOOR (CONT.)

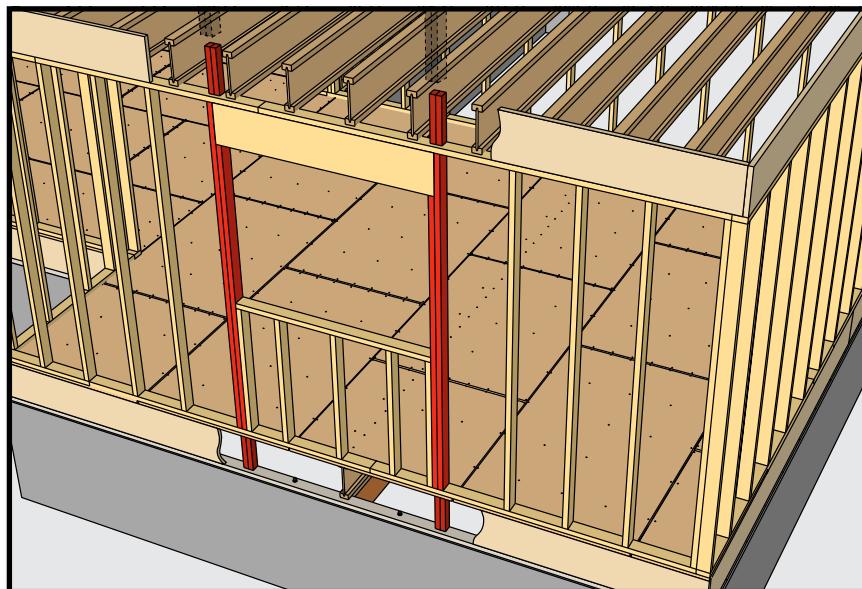


Overhang at Stair Opening

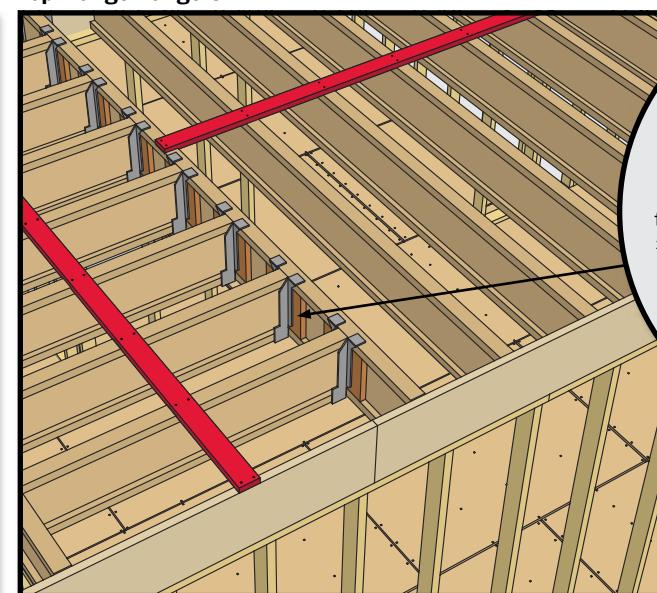
Leave 1" overhang
at top of stair



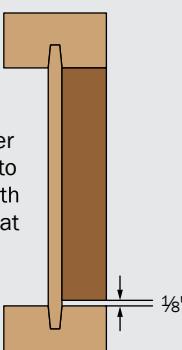
Transfer Continuous Loads to Foundation



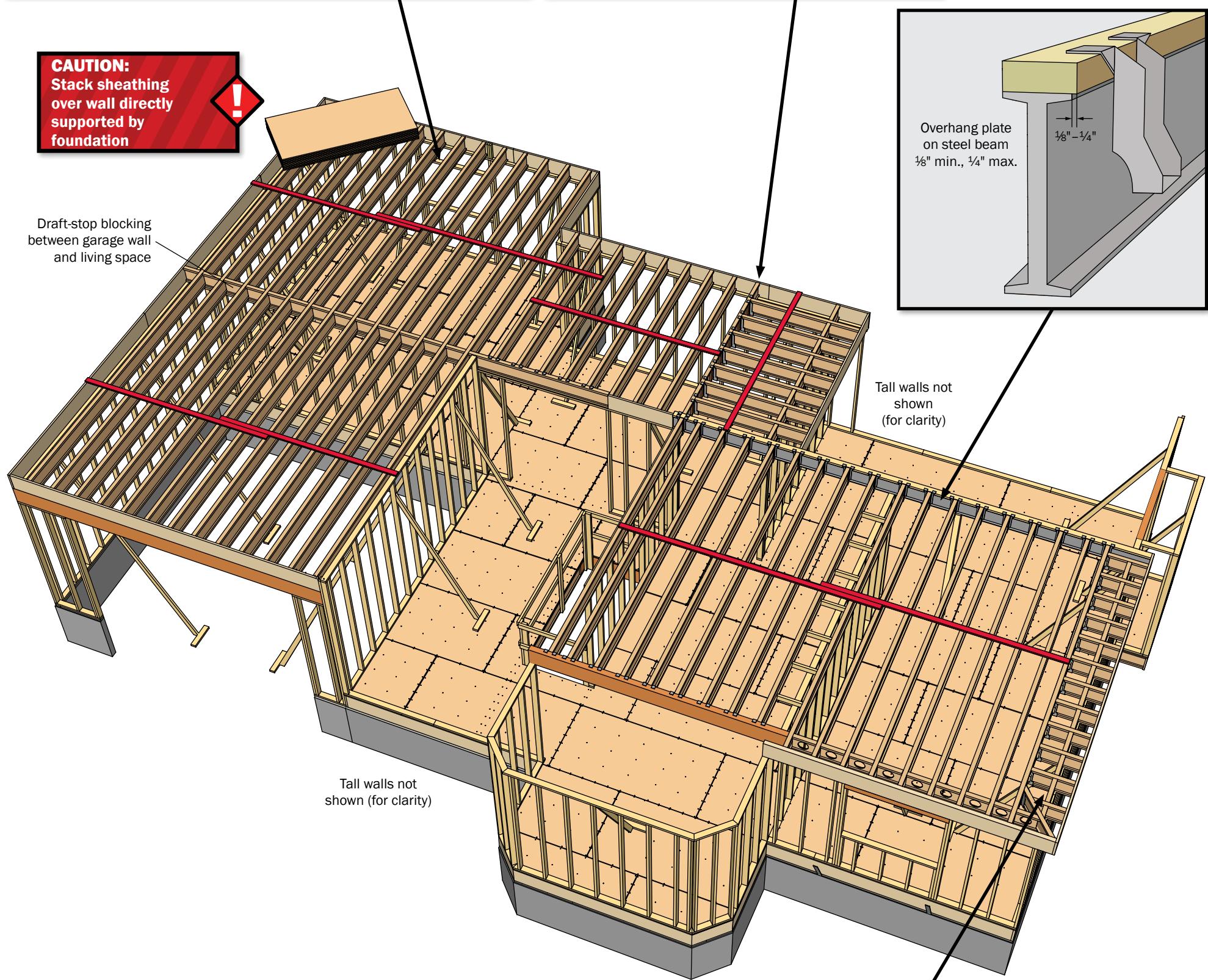
Top Flange Hangers



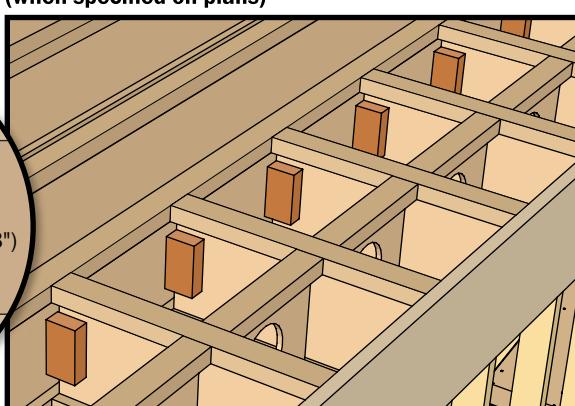
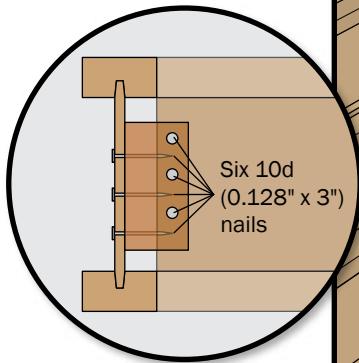
Install backer blocks tight to top flange with 1/8" min. gap at bottom



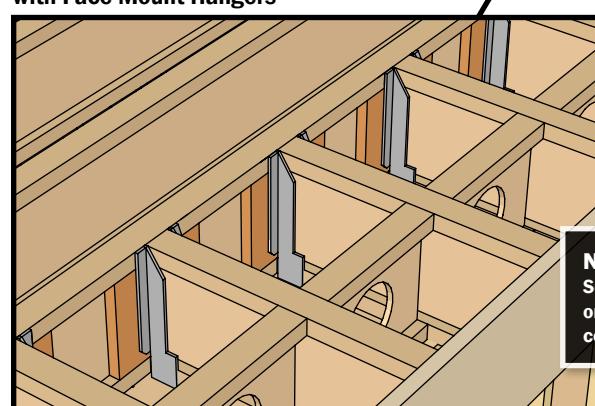
CAUTION:
Stack sheathing
over wall directly
supported by
foundation



Brick Ledge Cantilever with Blocks
(when specified on plans)



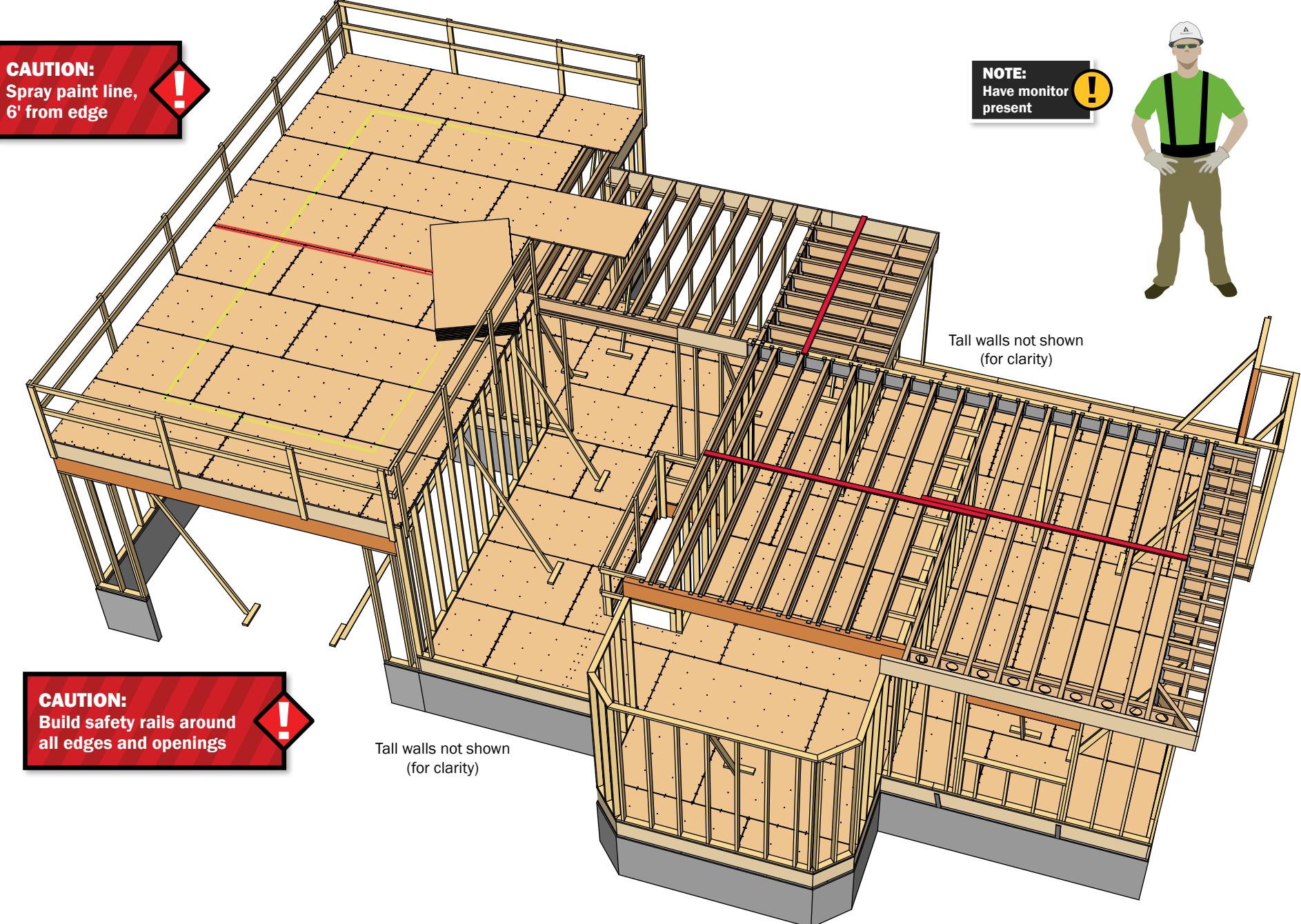
Brick Ledge Cantilever
with Face Mount Hangers



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



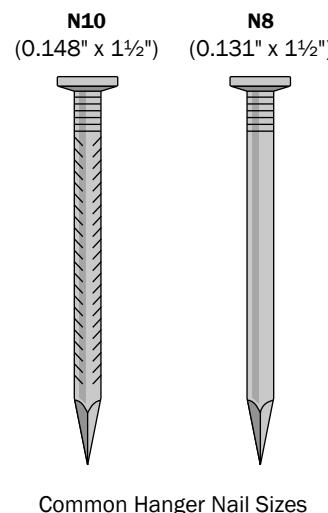
SHEATH SECOND FLOOR



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
1⅛" to 1¼" rim to TJI® joist	Face/end nail	(1) 10d (0.131" x 3") per flange
Backer blocks	Face nail	(10) 10d (0.128" x 3")
Filler blocks for TJI® 110-360 joists	Face nail	(10) 10d (0.128" x 3")
Filler blocks for TJI® 560 joist	Face nail	(10) 16d (0.135" x 3½") each side
Rim to plate (minimum)	Toe nail	(1) 10d (0.131" x 3") at 6" o.c.
Weyerhaeuser Edge Gold™ panels 23/32"	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





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.

