



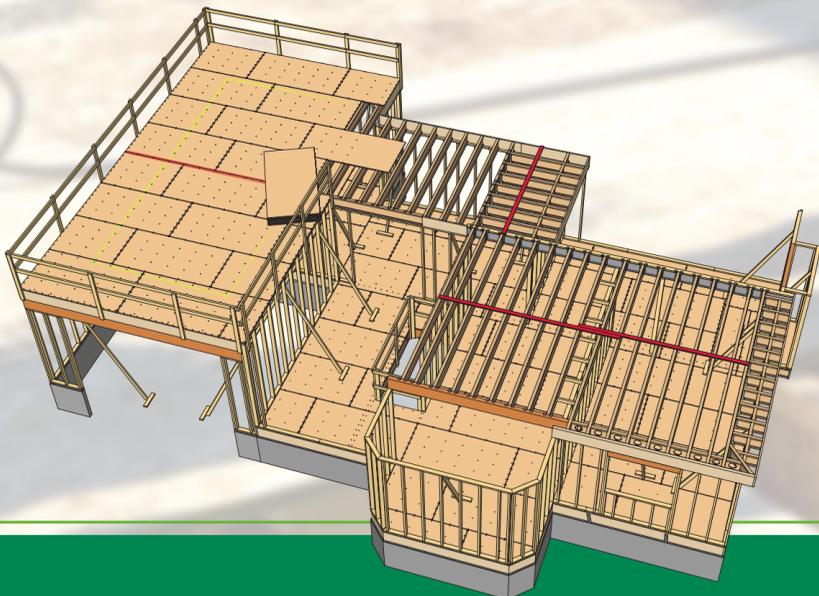
File a damage report online for prompt service from your regional technical office. Scan the QR code with your smartphone or go to weyerhaeuser.com/woodproducts/support.

Have a damaged joist or beam?



FLOOR FRAMING STANDARDS

A Framers' Guide to the **INSTALLATION PROCESS**



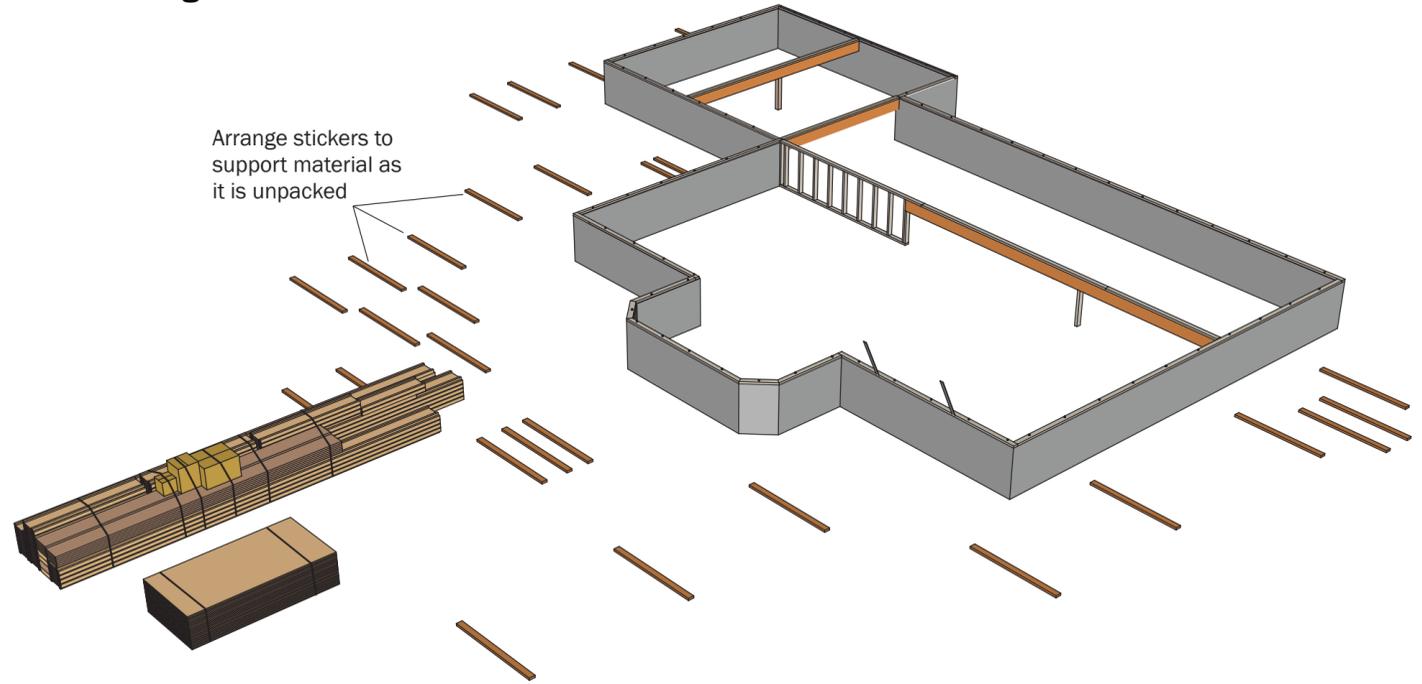
Stay Safe! Wear Personal Protective Equipment (PPE)



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 TJI® 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 TJI® 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 1/2" 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 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

Joist Identification

TJI® 110 Joists

TJI® 210 Joists

TJI® 230 Joists

TJI® 360 Joists

TJI® 560 Joists

Backer blocks
Hangers

Top Mount Face Mount

STAGING MATERIALS
SAVES TIME

Products			
PartID	Length	Product	Pieces 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
TJSCat	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			
PartID	Length	Product	Pieces 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

Blocking			
PartID	Length	Product	Pieces 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

NOTE: Blocking may be shipped as short lengths

Microllam® LVL

TimberStrand® LSL

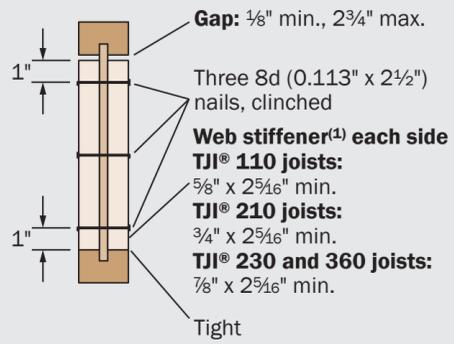
Parallam® PSL

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

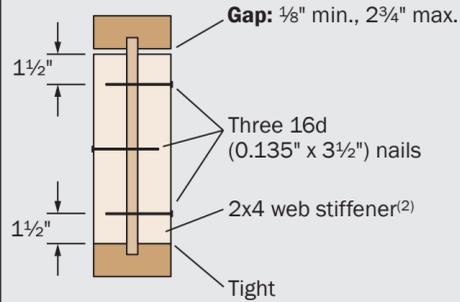
See architect or engineer plans for dimensions and special details

Web Stiffeners

TJI® 110, 210, 230, 360 Joists

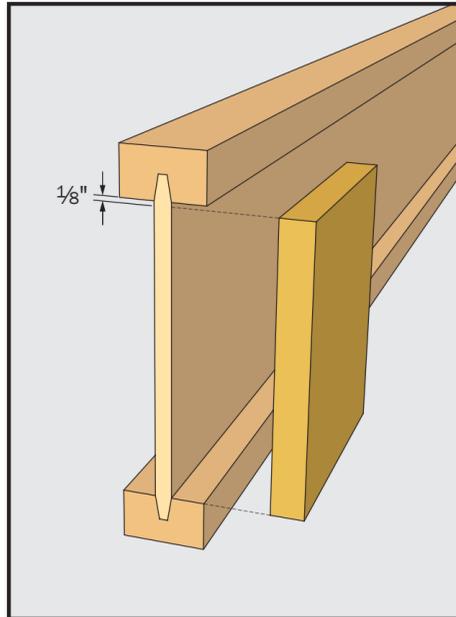


TJI® 560 Joists

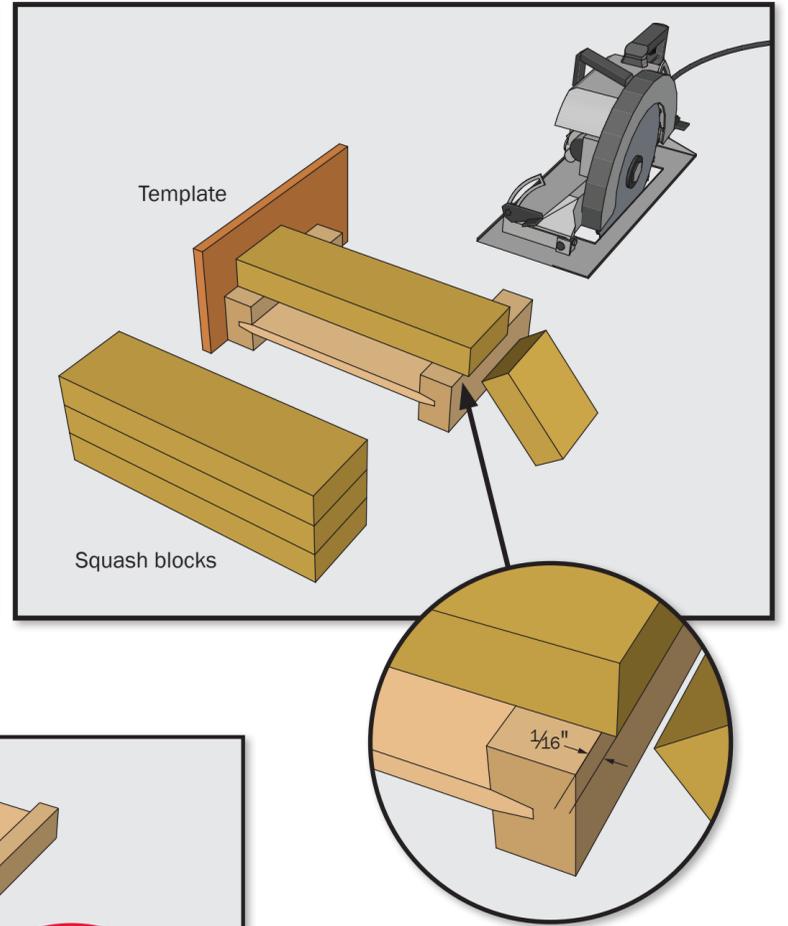


(1) PS1 or PS2 sheathing, face grain vertical
(2) Construction grade or better

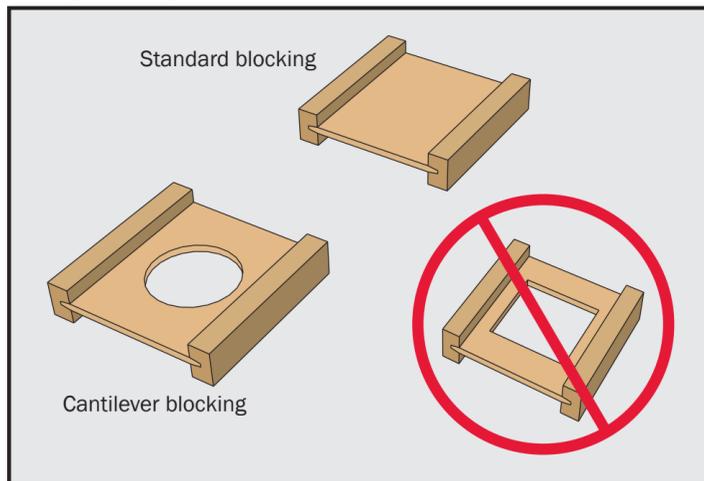
Cutting Web Stiffeners



Cutting Squash Blocks



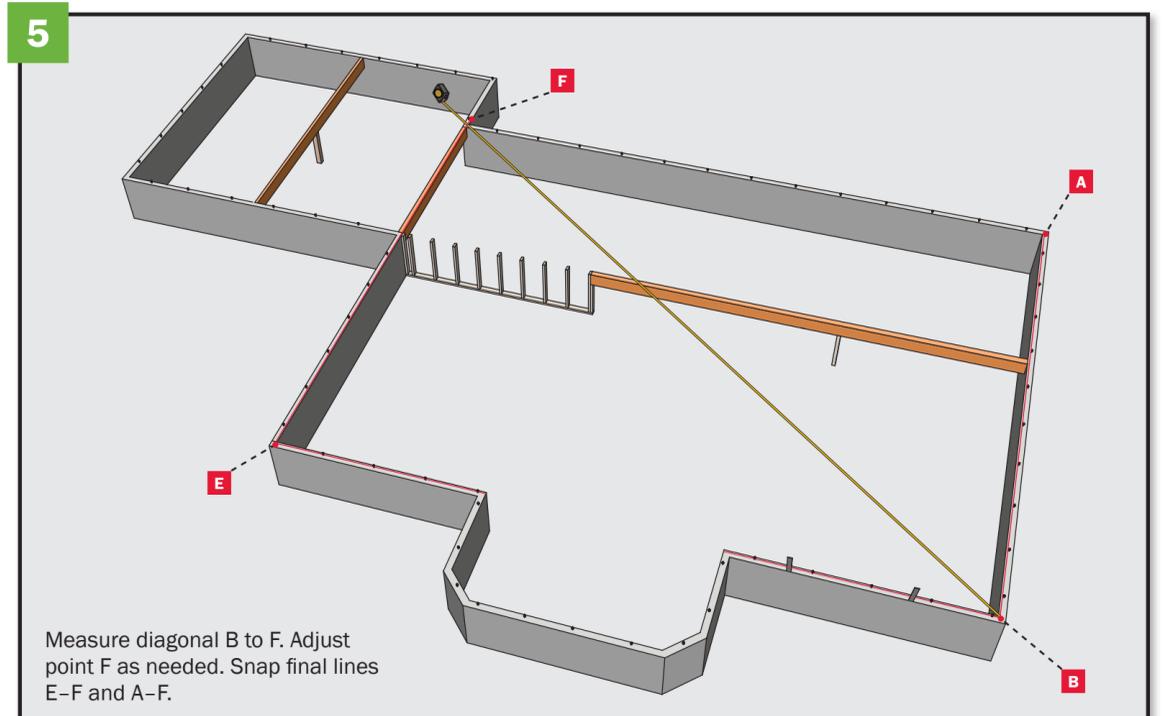
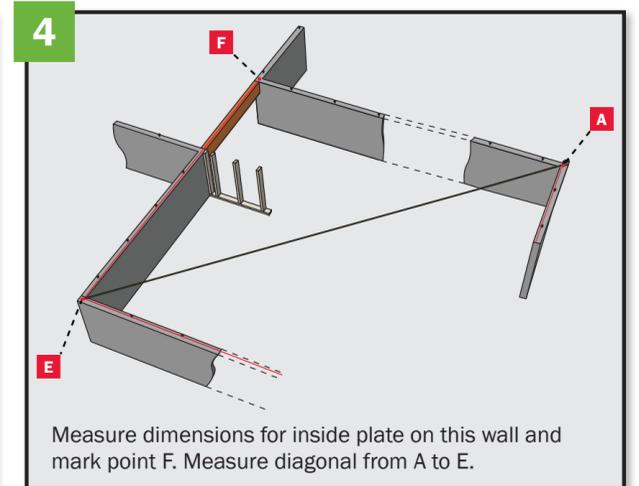
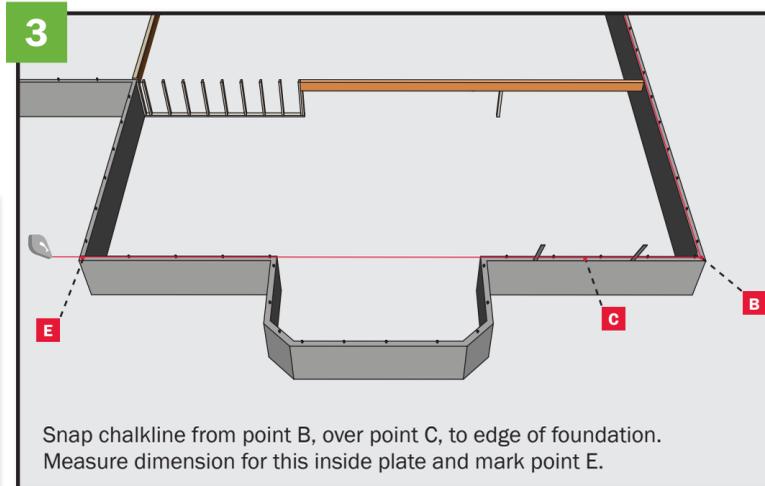
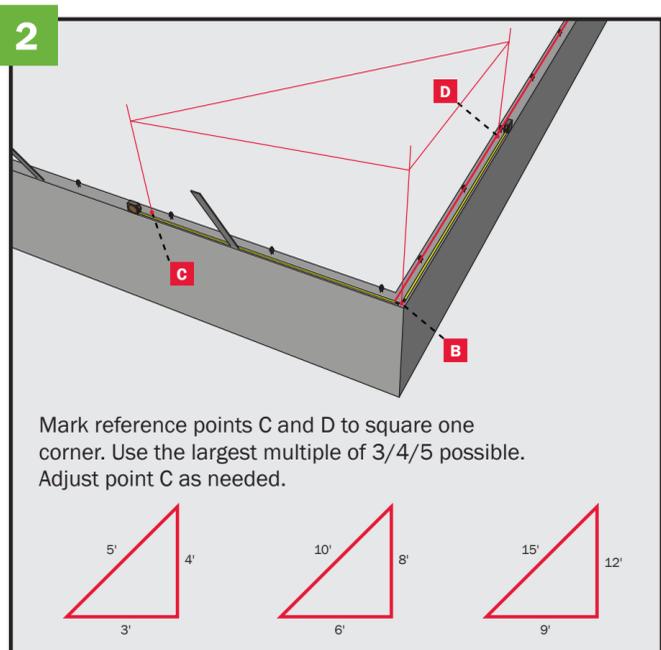
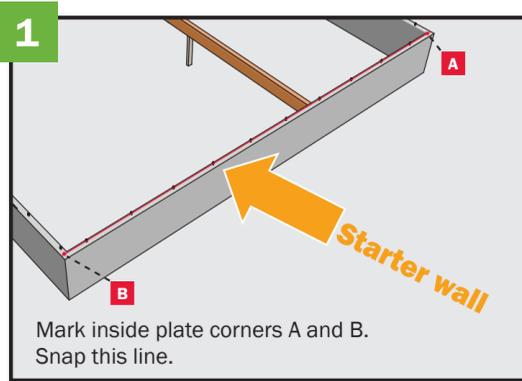
Cutting Blocking Panels



SQUARE AND SNAP LINE FOR SILL PLATE

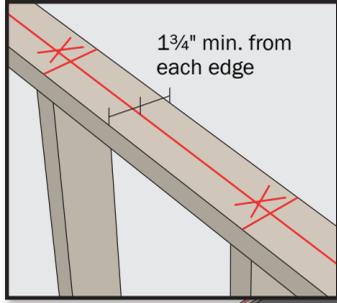


Architect/Engineer Plan

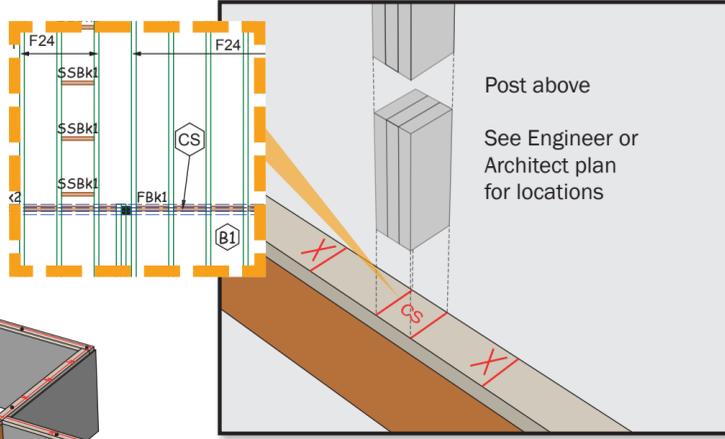


See architect or engineer plans for dimensions and special details

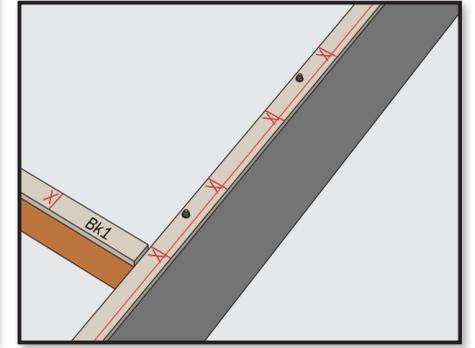
Snap Line at Butted Joist



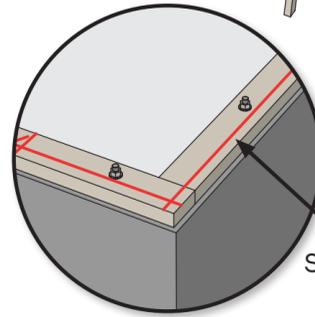
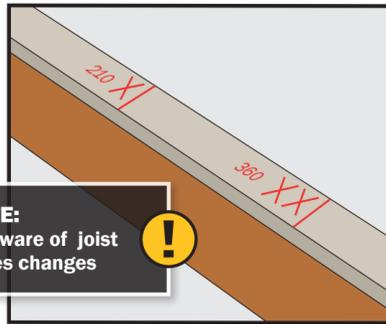
Layout Squash Blocks



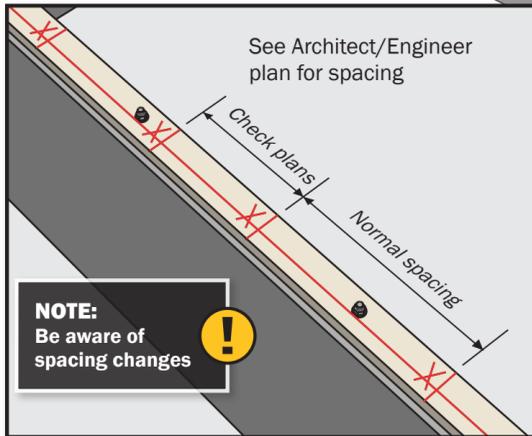
Layout Blocking Panels



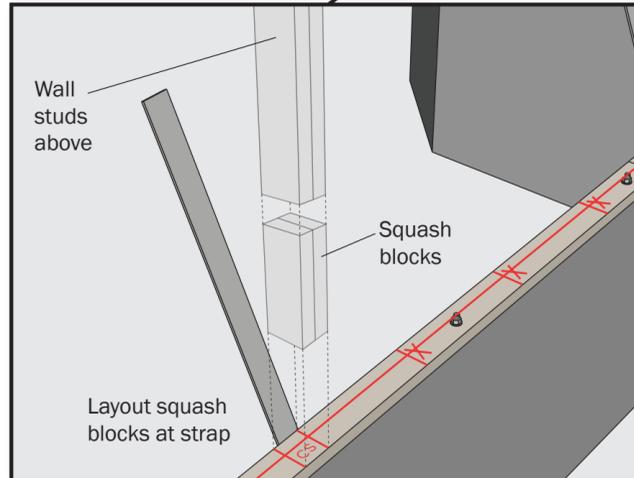
Layout Joists



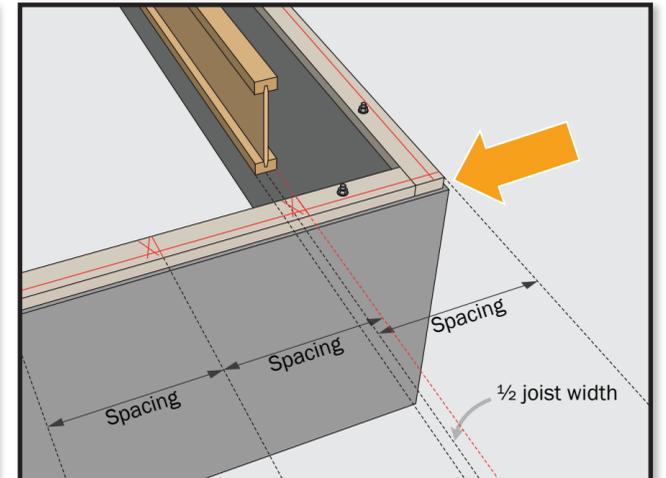
Plumbing/Mechanical Offsets



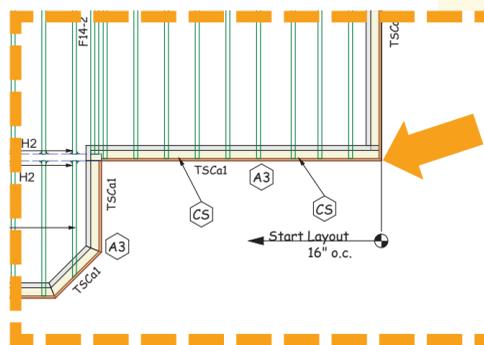
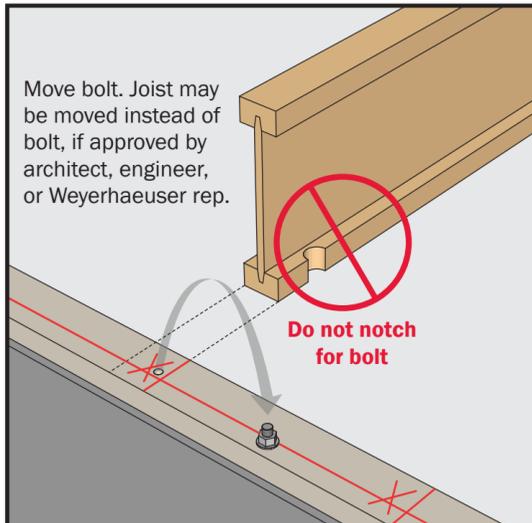
Squash Blocks at Strap



Normal Joist Spacing

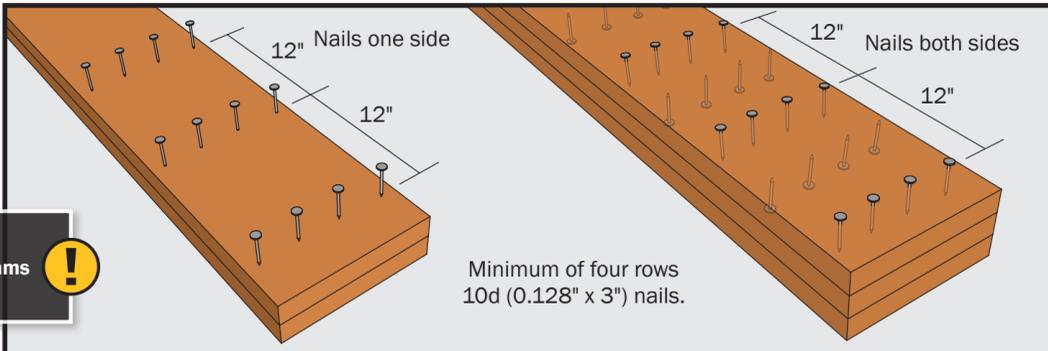


Bolt at Joist Location



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

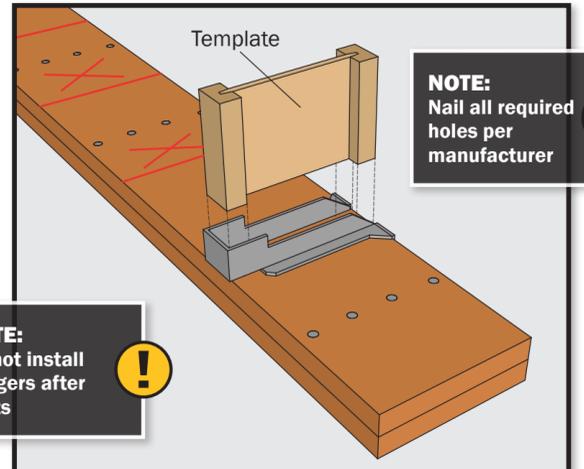
Fastening Per Engineer's Specifications (Top Loaded Beams ONLY)



NOTE:
Assemble beams
on ground

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

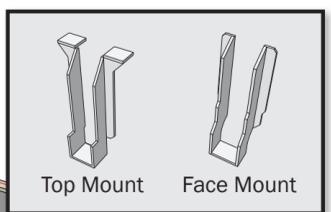
Hanger Installation



NOTE:
Nail all required
holes per
manufacturer

NOTE:
Do not install
hangers after
joists

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	-



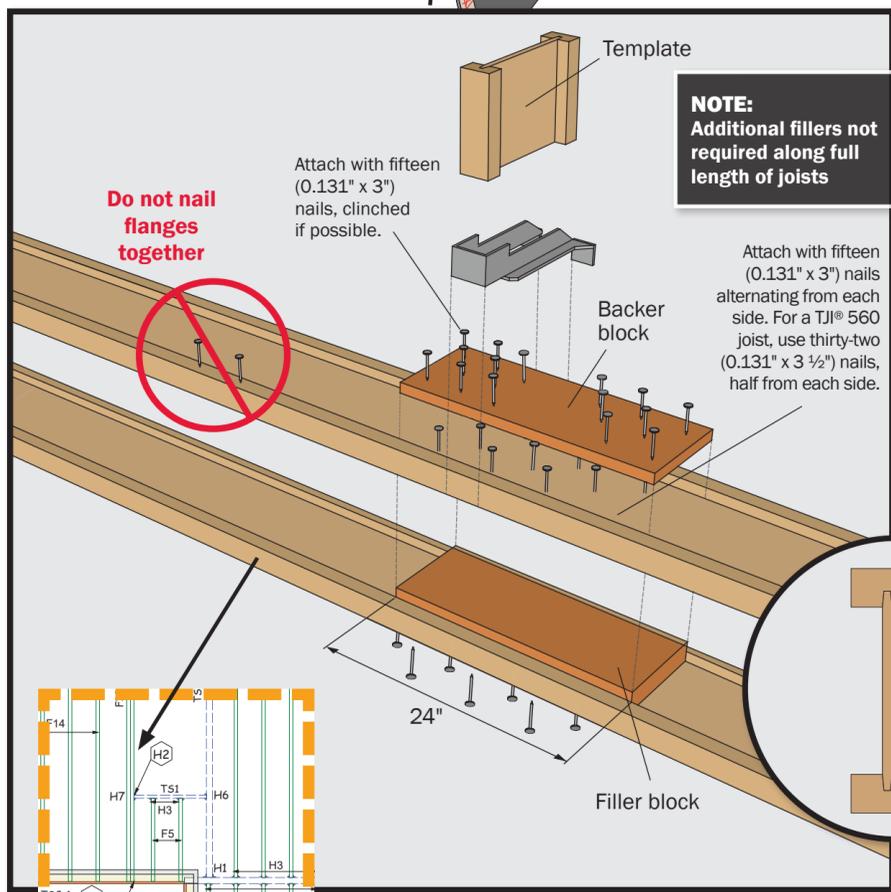
NOTE:
Use galvanized nails to
connect products to treated
lumber sill plates. Not
required with StrandGuard®
TimberStrand® LSL sill plates.

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

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

See plan for stair
opening dimension

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



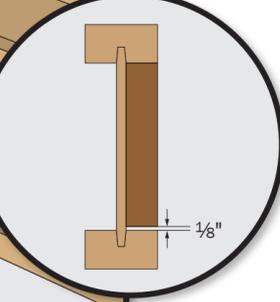
NOTE:
Additional fillers not
required along full
length of joists

Do not nail
flanges
together

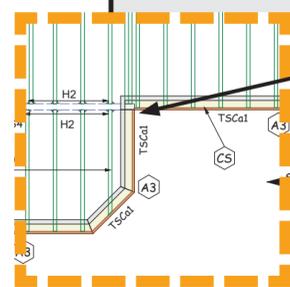
Attach with fifteen
(0.131" x 3")
nails, clinched
if possible.

Attach with fifteen
(0.131" x 3") nails
alternating from each
side. For a TJI® 560
joist, use thirty-two
(0.131" x 3 1/2") nails,
half from each side.

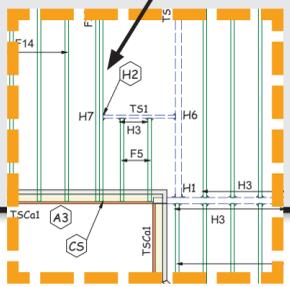
Filler block



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



Minimum
beam
bearing
length
(per plan)

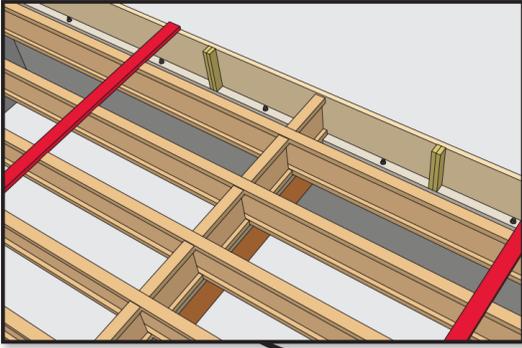


Plan Label	Qty	Manuf.	Product	Face /Supporter	Nails Top Nails
H1	1	SST	HGUS412	56- 16d common	-
H2	8	SST	ITS2.06/11.88	2- 10d x 1-1/2	4- 10d x 1-1/2
H3	18	SST	IUS2.06/11.88	10- 10d x 1-1/2	-
H4	1	SST	IUS2.06/11.88	10- 10d common	-
H5	3	SST	IUS2.06/11.88	10- 10d common	-
H6	1	SST	MIU1.81/11	20- 10d x 1-1/2	-
H7	1	SST	MIU1.81/11	20- 10d common	-

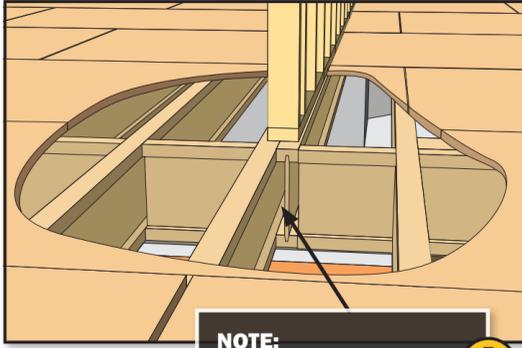
Framing Connector Summary						
Plan Label	Qty	Manuf.	Product	Face/Supporter	Nails Top Nails	Member/Supported Nails
H1	1	SST	HGUS412	56- 16d common	-	20- 16d double shear
H2	8	SST	ITS2.06/11.88	2- 10d x 1-1/2	4- 10d x 1-1/2	-
H3	18	SST	IUS2.06/11.88	10- 10d x 1-1/2	-	-
H4	1	SST	IUS2.06/11.88	10- 10d common	-	1- Simpson SDBx1.25 screw installed thru the seat of the hanger
H5	3	SST	IUS2.06/11.88	10- 10d common	-	-
H6	1	SST	MIU1.81/11	20- 10d x 1-1/2	-	2- 10d x 1-1/2
H7	1	SST	MIU1.81/11	20- 10d common	-	2- 10d x 1-1/2

See architect or engineer plans for dimensions and special details

Squash Blocks at Multiple Studs from Above



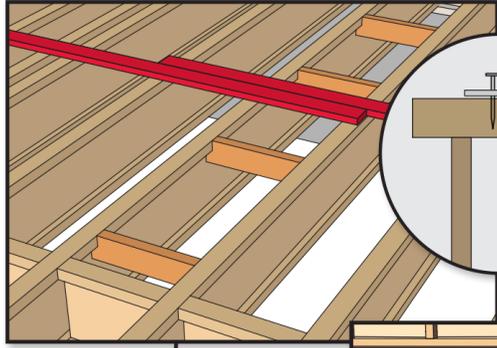
Double Joist Under Shear or Braced Wall



NOTE:
No filler unless specified
by engineer or architect

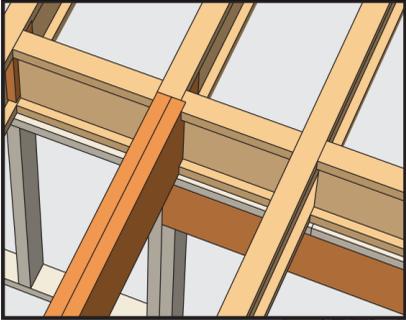


Joists Under Non-Bearing Wall

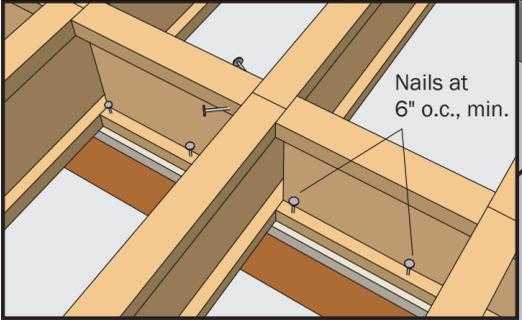


Alternative attachment
of block between joists
at non-bearing walls

Blocking at End of Beam

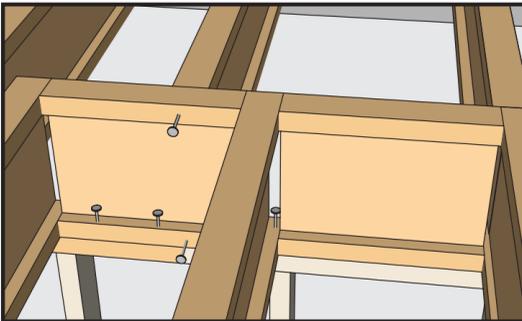


Blocking at Ends of Joists



Nails at
6" o.c., min.

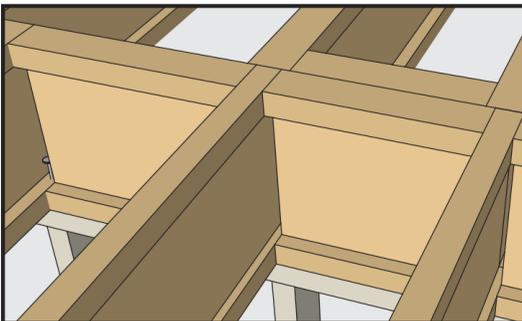
Blocking for Same Joist Series, Different Spacing



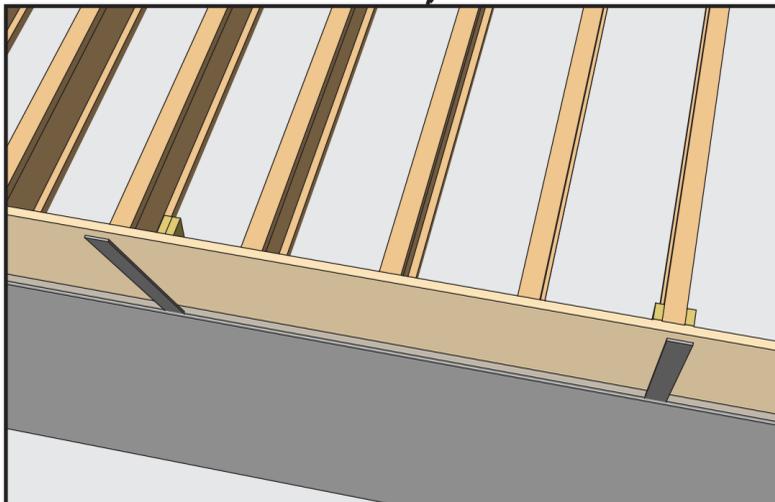
NOTE:
Check nailing criteria
(see Appendix)



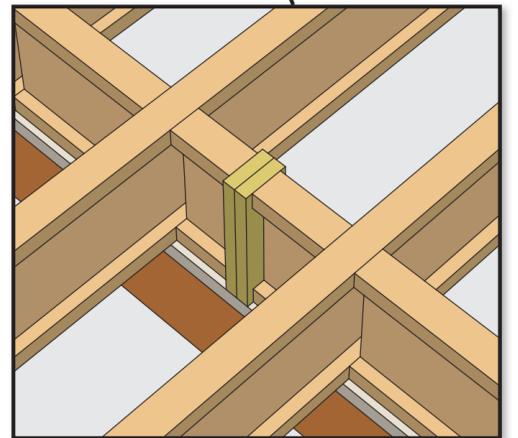
Blocking for Different Joist Series, Same Spacing



Squash Blocks at Foundation Straps



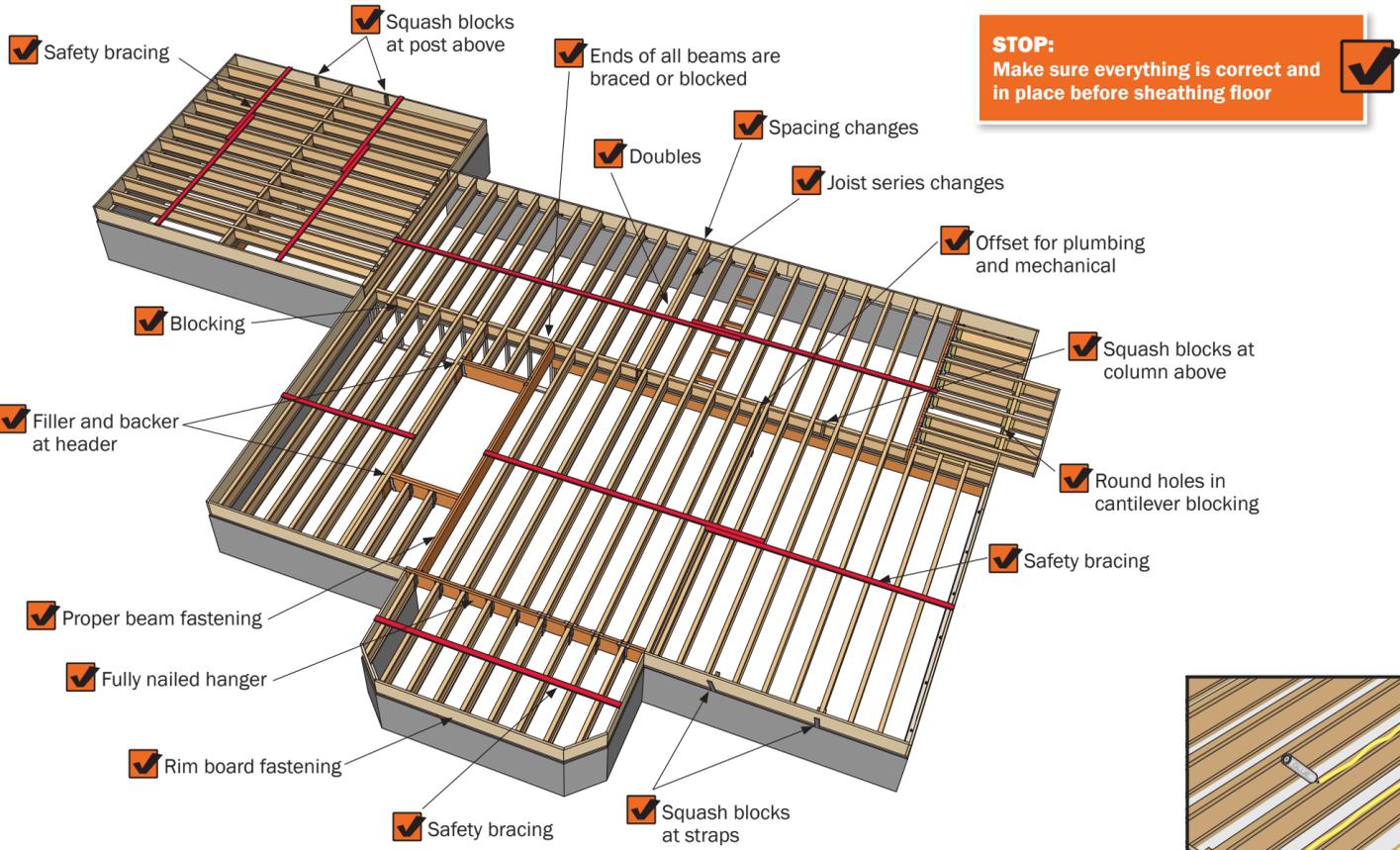
Squash Block at Column



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



Final Check Before Subfloor

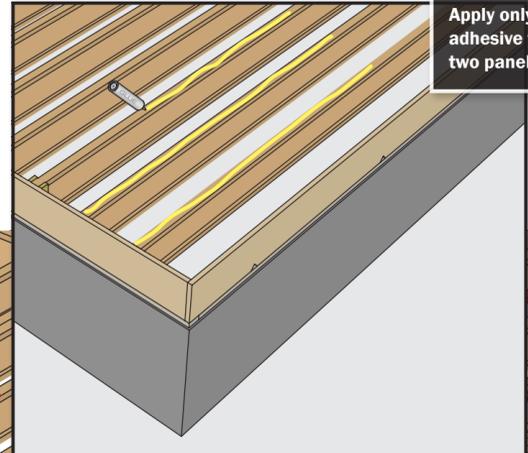


STOP:
Make sure everything is correct and in place before sheathing floor

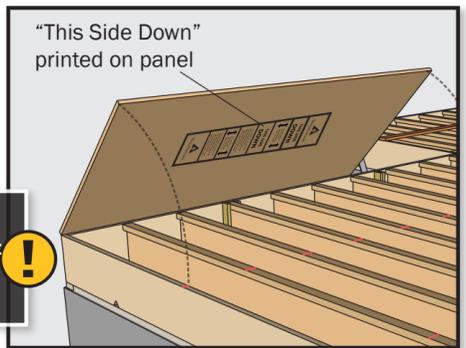
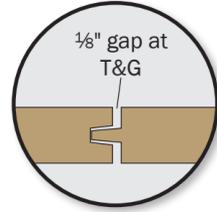
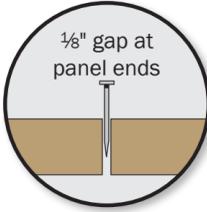
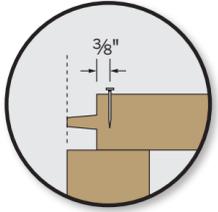
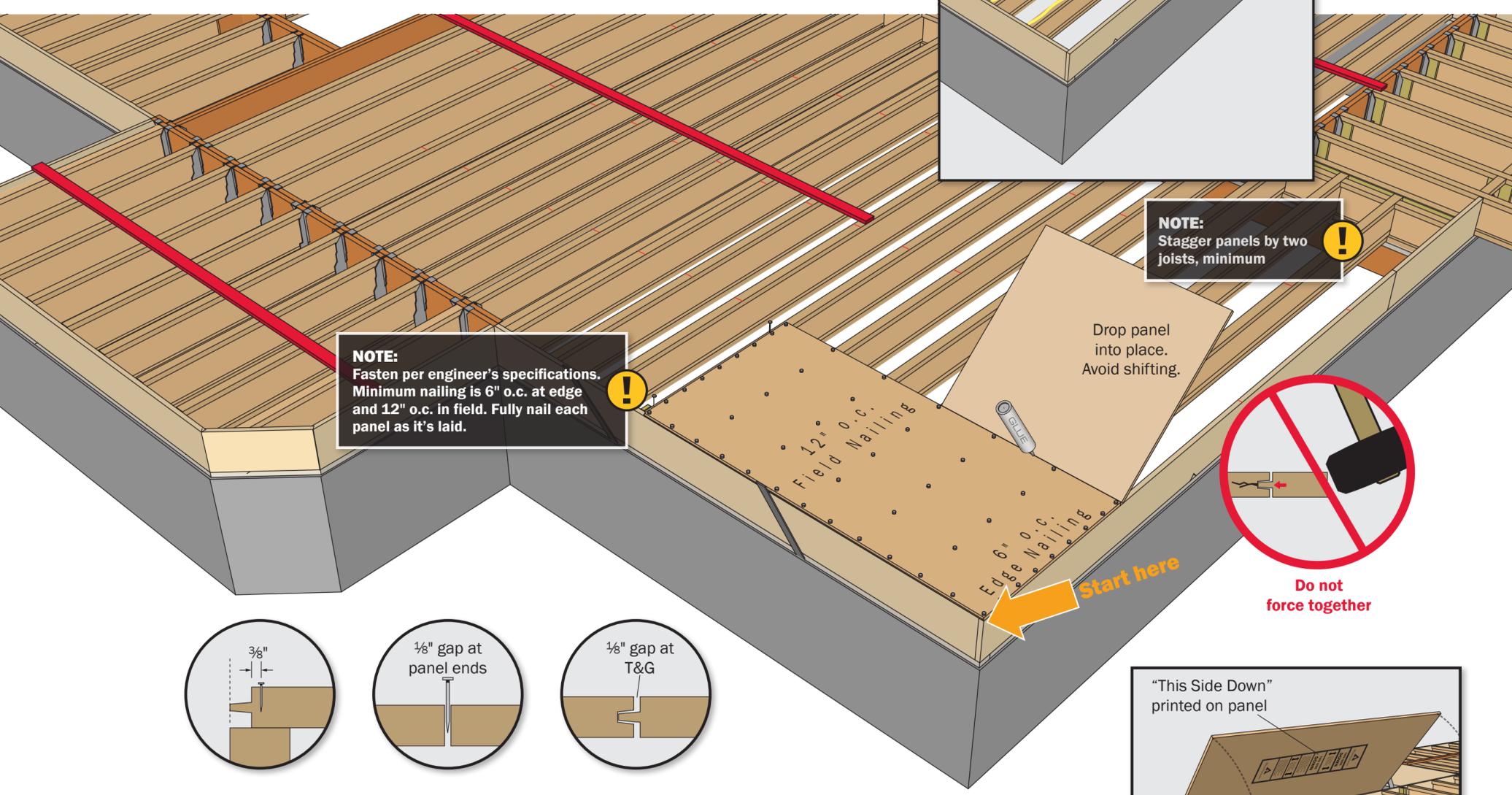


CAUTION:
Do not walk on unbraced joists.

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

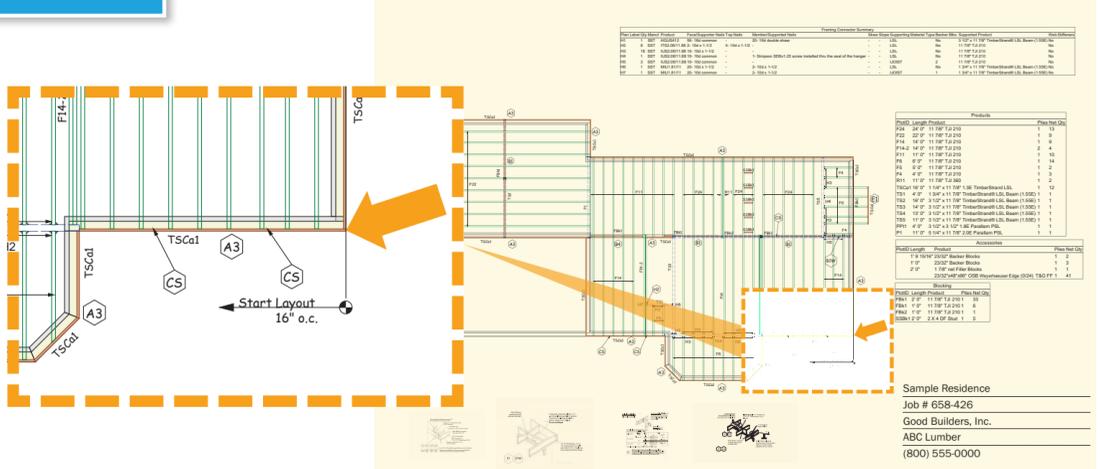
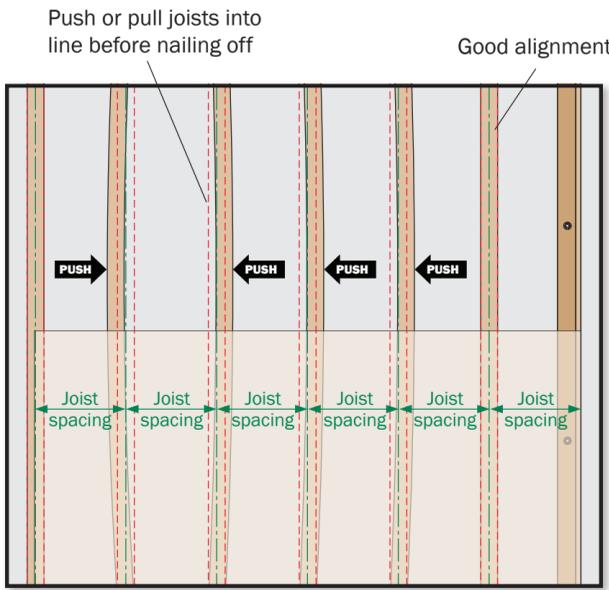


NOTE:
Stagger panels by two joists, minimum

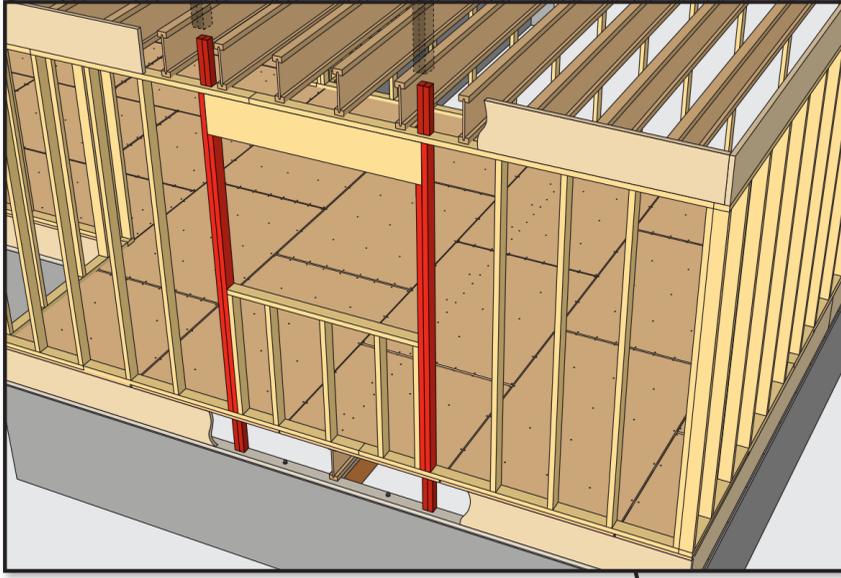


NOTE:
Make sure the first sheet is perfectly square at edges

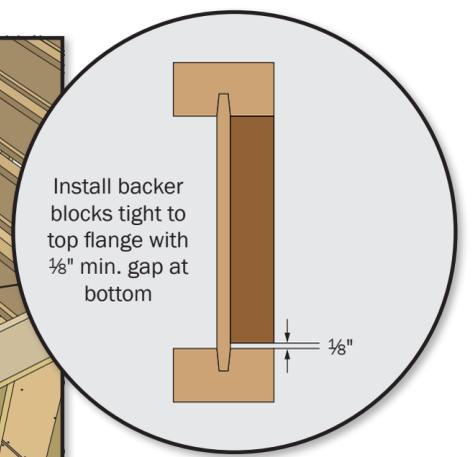
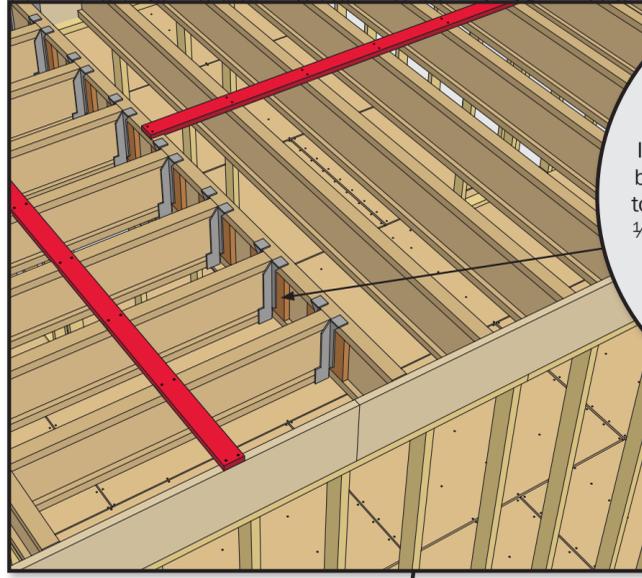
NOTE:
Check nailing criteria (see Appendix)



Transfer Continuous Loads to Foundation



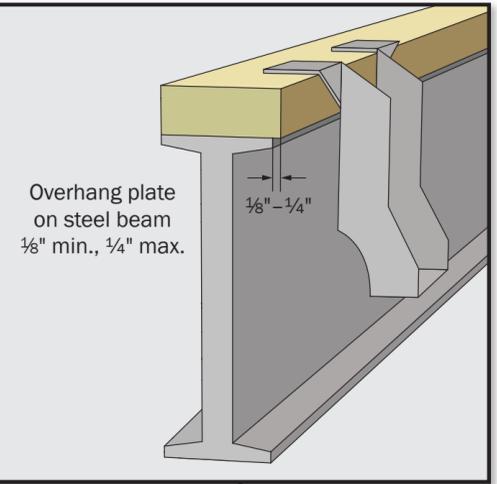
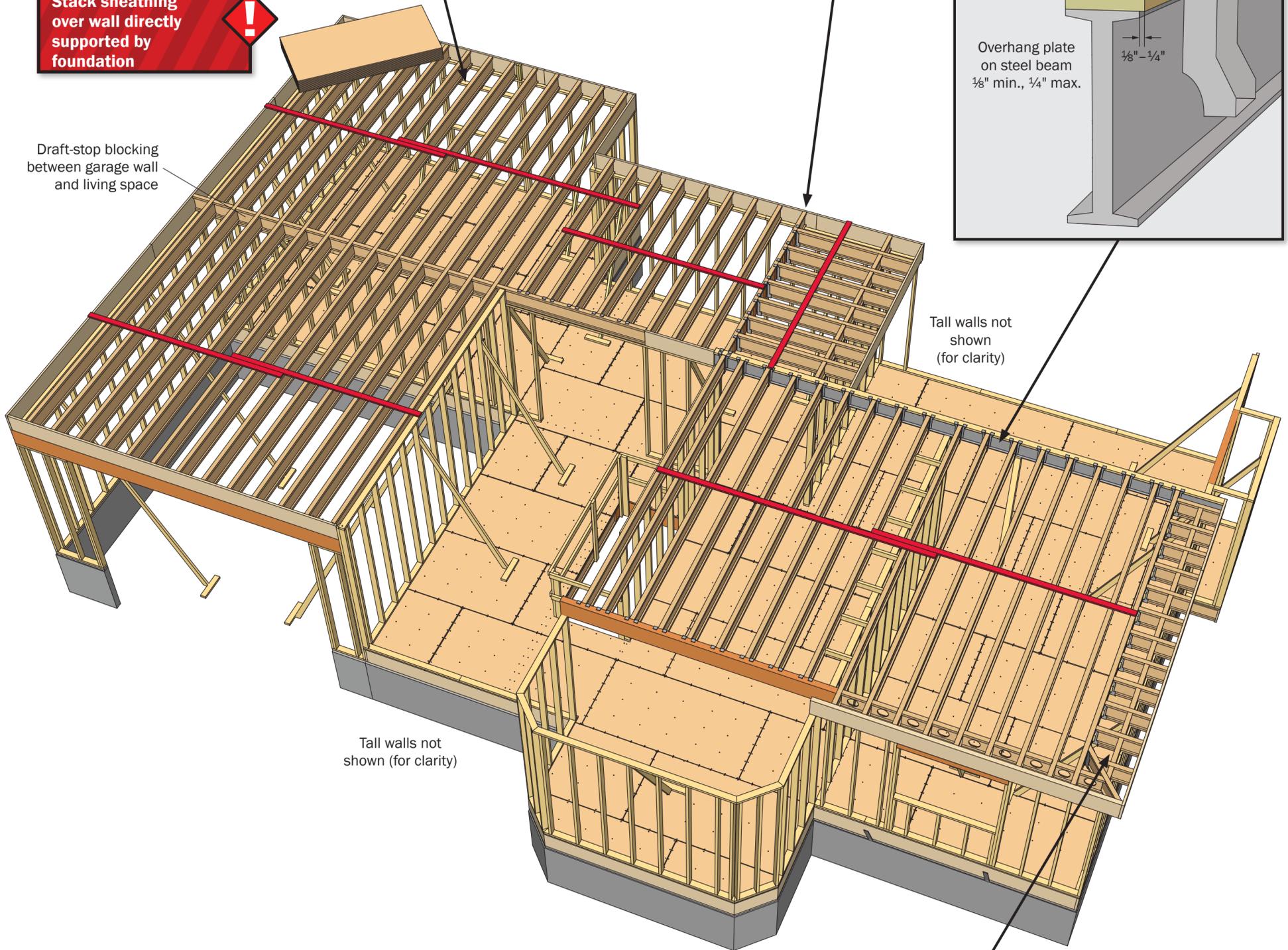
Top Flange Hangers



CAUTION:
Stack sheathing
over wall directly
supported by
foundation

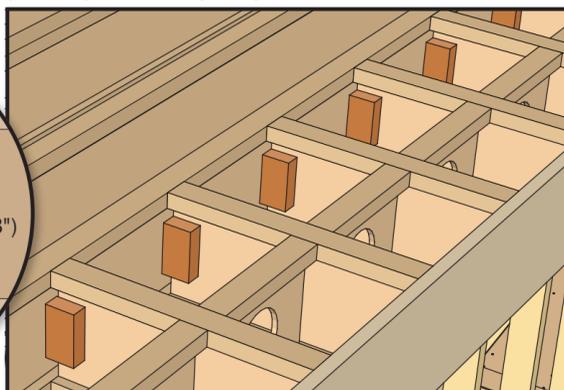


Draft-stop blocking
between garage wall
and living space

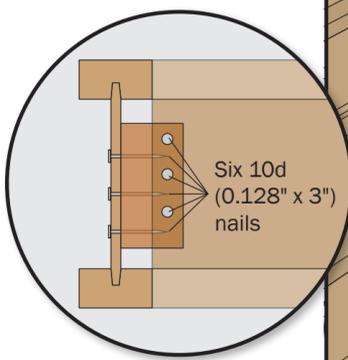
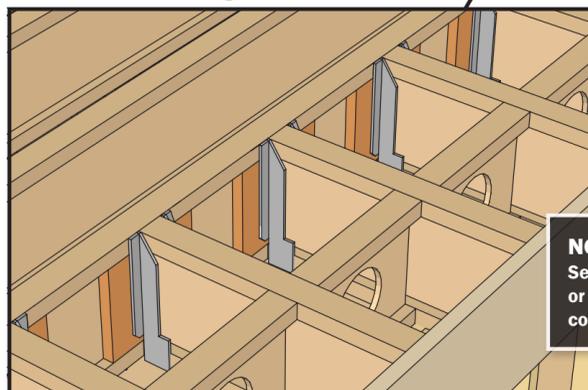


Tall walls not
shown
(for clarity)

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



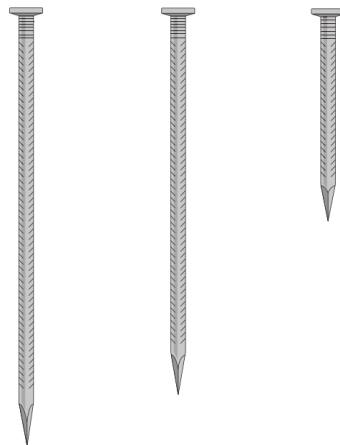
Tall walls not shown
(for clarity)

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 1¾" 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 2¾" x 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

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



Typical Hanger Nail Sizes

See architect or engineer plans for dimensions and special details