TJI Joist

Must have 1 3/4" minimum joist bearing at ends

Rim Joist

A2 RIM JOIST
1 1/4" Timberstrand LSL RIM BOARD

also be used as a rim board for all residential or commercial and multi-family applications where support width is sufficient to provide 2 1/4" mim. joist bearing.

RIM BOARD
Blocking panels may be required with shear walls above or below.

Web stiffeners required on TJII/25 DF or SP, TJII/35 DF or SP and TJII/55 DF or SP joist.

B2 Intermediate Bearing - Load Bearing Wall Above
Blocking Panels may be required with shear walls above or below.

Web stiffeners required on TJI/25 DF or SP TJI/35 DF or SP and TJI/55 or SP joists.

B3 TJI Intermediate Bearing - No load wall above
FILLER AS REQUIRED (INSTALL AFTER HANGER)

BEVELED WEB STIFFENER BY TJM EACH SIDE OF TJII

HANGER BY TJM SLOPED

HANGER BY TJM SLOPED

2 X 6 STUD WALL

BOTH SIDES TOP FLANGE HANGER STUD WALL RIDGE
FILLER AS REQUIRED

HANGER BY TJM SLOPED

BEVELED WEB STIFFENER BY TJM EACH SIDE OF TJI

HANGER BY TJM SLOPED

5 1/8" GLB

BOTH SIDES FACE MOUNT HANGER WOOD BEAM VALLEY
BEVELED WEB STIFFENER BY TJM EACH SIDE OF TJI.

8" CMU WALL

BLOCKING PANEL BY TJM

2x4 BEVELED PLATE BY TJM (1 1/2" THICK @ HIGH SIDE)

4 x 8 LEDGER

BOTTOM BEARING LEDGER SLOPED LOW END
BLOCKING PANEL
BY TJM

WEB STIFFENER
BY TJM
EACH SIDE.

2x6 STUD WALL

BOTTOM BEARING STUD WALL 2
JOIST BUTTING
BLOCKING PANEL BY TJM

2x4 BLOCK BY OTHERS

EACH SIDE OF TJI

2x6 STUD WALL

BOTTOM BEARING STUD WALL CANTILEVER
BLOCKING PANEL BY TJM

WEB STIFFENER BY TJM EACH SIDE.

5 1/8" GLB

BOTTOM BEARING WOOD BEAM 2 JOIST BUTTING
2x4 BLOCK

BLOCKING PANEL BY TJM

WEB STIFFENER BY TJM EACH SIDE OF TJI

5 1/8" GLB

BOTTOM BEARING WOOD BEAM CANTILEVERED
Web stiffeners may be required.

1 1/4" TimberStrand LSL closure

E1 TJI Load Bearing Cantilever Detail
Attach reinforcement to joist top and bottom flanges with 8d (2 1/2") common nails at 6" o.c. When reinforcing both sides, stagger nails to avoid splitting.

E2 Load Bearing Cantilever Details
6'-0" length of TJI joist reinforcement and filler block (use 4'-0" length with 9 1/2" and 11 7/8" TJI joists)

Attach TJI joist reinforcement to joist web with 3 rows 10d nails at 6" o.c. clinched (use 2 rows with 9 1/2" and 11 7/8" TJI joists)
Attach reinforcement to joist top & bottom flanges with one 8d (2 1/2") common nail at each corner.

12" length of 3/4" reinforcement on one side.

E5 Load Bearing Cantilever Details
2x____ nailed to the side of the TJI with wood backer. Nail through the TJI joist and backer into the 2x____ with 2 rows 10d nails @ 6"o.c and clinched (use16d nails with TJI/55 joists).

F1 TJI Non-Load Bearing Cantilever Details
F2 TJI Non-Load Bearing Cantilever Detail

- TJI Joist
- 1 1/4\" Timber Strand LSL closure
- 1/3 adjacent span (Max) (4\'-0\" Max Uniform Loads only)
- Adjacent Span Example: 12\'-0\"
Backer block, install tight to top flange (tight to bottom flange with face mount hangers). Nail with 15-10d 3" box nails for residential applications), clinched when possible.

Filler block. Nail with 15-10d (3") box nails (10-10d (3") box nails for residential applications), clinched. Use 15-16d (3 1/2") box nails (10-16d (3 1/2" box nails for residential applications) from each side with TJI/55 DF or SP joists.

H2 TJI Floor Joist Details
H3  I-Beam with TJI Bearing plate flush with inside face of wall or beam

Bearing Plate Flush with inside face of wall or beam

TJI

Flange Mount Hanger
Simpson LSTA15 strap with 12-10d x 1 1/2" nails may be required with hangers other than LSSU when slope exceeds 7'/12' (use LSTA24 strap with 18-10d x 1 1/2" nails with TJI/55 DF joists).

Simpson LSSU hanger with beveled web stiffeners. LSSU hangers allowed with 9 1/2", 11 7/8" and 14" TJI joist only.

H5  TJI Joist Roof Details
Filler block. Attach with 15-10d nails (10-10d box nails for residential applications), clinched. Use 15-16d box nails (10-16d box nails for residential application) from each side with TJI/55 DF joists.

Backer block. Attach with 15-10d box nails (10-10d box nails for residential applications) clinched when possible.

Simpson LSSU hanger with beveled web stiffeners. LSSU hangers allowed with 9 1/2", 11 7/8" and 14" TJI joist only.
WEB STIFFENER BY TJM EACH SIDE OF TJI.

BLOCKING PANEL BY TJM

FIELD CUT THROUGH TJI TOP FLANGE AND WEB AT CENTER OF BEARING AFTER INSTALLATION.

2x6 STUD WALL

ISOMETRIC BOTTOM BEARING STUD WALL CUT FOR UPLIFT
WEB STIFFENER BY TJM EACH SIDE OF TJI.

BLOCKING PANEL BY TJM

FIELD CUT THROUGH TJI TOP FLANGE AND WEB AT CENTER OF BEARING AFTER INSTALLATION.

2x6 STUD WALL

ISOMETRIC BOTTOM BEARING STUD WALL CUT FOR UPLIFT
WEB STIFFENER BY TJM EACH SIDE OF TJI.

BLOCKING PANEL BY TJM (SPECIAL LENGTH)

2x6 STUD WALL

ISOMETRIC BOTTOM BEARING STUD WALL OVERLAPPING
WEB STIFFENER BY TJM
EACH SIDE OF TJI.

BLOCKING PANEL BY TJM
(SPECIAL LENGTH)

2x6 STUD WALL

ISOMETRIC BOTTOM BEARING STUD WALL OVERLAPPING
WEB STIFFENER BY TJM EACH SIDE OF TJI

BLOCKING PANEL BY TJM

2x6 BEVELED PLATE BY TJM

2x6 STUD WALL

ISOMETRIC BOTTOM BEARING STUD WALL SLOPED 2 JOISTS BUTTING
WEB STIFFENER BY TJM EACH SIDE OF TJI.

BLOCKING PANEL BY TJM

5 1/8" GLB

ISOMETRIC BOTTOM BEARING WOOD BEAM 2 JOISTS BUTTING
WEB STIFFENER BY TJM
EACH SIDE OF TJI.

BLOCKING PANEL BY TJM

FIELD CUT THROUGH TJI
TOP FLANGE AND WEB AT
CENTER OF BEARING AFTER
INSTALLATION.

2x6 BEVELED PLATE BY TJM
(1 1/2" thick @ high side)

5 1/8" GLB

ISOMETRIC BOTTOM BEARING WOOD BEAM
SLOPED CUT FOR UPLIFT
TJI rim board or blocking for lateral support

Parallam PSL column. Verify column capacity

NOTE: Bearing length is extremely critical and must be considered for each application.

L1- BEARING AT WALL
Strap per code plate is not continuous over header

L2 Bearing For Door Or Window Header
L3 Beam to Beam Connection

Top Flange Hanger

Face Mount Hanger

Samples from www.AutoCADDetails.net
WEB STIFFENER BY TJM
EACH SIDE OF TJI

2x4 BEVELED PLATE BY TJM
(1 1/2" THICK @ HIGH SIDE)

8" CMU WALL

8" CMU WALL

BOTTOM BEARING LEDGER SLOPED HIGH SIDE
P1 Beam on Column Cap
Beveled bearing plate required when slope exceeds 1/4"/12"

1/3 adjacent span (max)

R1 TJL Joist Roof Detail
SLOPE LIMITS: 3"/12" - 12"/12"

- Blocking Panel
- Simpson VPA Connectors

- 1/3 adjacent span (Max)

R3 TJI JOIST ROOF DETAILS
Low end of Joist ONLY

Beveled Web stiffeners on both sides

2x4 Block for soffit support

2'-0" MAX

R5 TJI Joist Roof Details
LOW END OF JOIST ONLY

4'-0" Min.

2x4 one side. User 2x4 both sides if joist is greater than 24" O.C.

2 Rows 8d Nails @ 8" O.C.

2'-0" Max.

Beveled 2x4 block with beveled stiffener on opposite side of web.
2x4 one side. Use 2x6 if joist spacing is greater than 24" O.C.

10d nails @ 8" O.C.

Beveled 2x4 block

Beveled web stiffeners on both sides

R9 TJL Joist Roof Details
BEVELED WEB STIFFENER BY TJI EACH SIDE OF TJI

1 1/2" x 2 3/4" NET BEVELED PLATE BY TJM (1 1/2" thick @ high side)

BLOCKING PANEL BY TJM

BEVELED WEB STIFFENER BY TJI EACH SIDE OF TJI

1 1/2" x 2 3/4" NET BEVELED PLATE BY TJM (1 1/2" thick @ high side)

2x6 STUD WALL

BOTTOM BEARING STUD WALL
SLOPED VALLEY
MICRO=LAM L.V.L. SUPPORT BEAM

1-1/2" KNOCKOUT HOLES AT APPROXIMATELY 12" O.C. MAY BE USED FOR CROSS VENTILATION. CONSULT AN EXPERT ON VENTILATION FOR SPECIFIC REQUIREMENTS.

FOR INSTALLATION STABILITY: TEMPORARY STRUT LINES (1x4 MIN.) 8' ON CENTER MAX FASTEN AT EACH JOIST WITH 2-8d NAILS MIN.

TJI JOIST ROOF APPLICATION DRAWING.

TJI JOIST HEADER.

MULTIPLE TJI JOIST MAY BE REQUIRED

JOIST BLOCKING OR METAL OR WOOD X-BRACING FOR LATERAL SUPPORT
CANTILEVER STRENGTHENING WITH TJI JOISTS

NOTE: BLOCK TOGETHER FULL LENGTH WITH FILLER BLOCKS. USE 2x8@0” WITH 9-1/2” AND 11-7/8” TJI JOIST. USE 2x10@0” + 1/2” Plywood (2” N.E.T) WITH 14” AND 16” TJI JOIST. NAIL BLOCK WITH 2 ROWS 10d NAILS AT C.D. AND CLINCH (3 ROWS WITH 10d AND 16” TJI JOIST)

2”X WITH 9-1/2” AND 11-7/8” TJI 4”X WITH 14” AND 16” TJI JOIST

BEARING BLOCKING

LOAD BEARING WALL ABOVE (MUST STACK OVER WALL BELOW)

INTERMEDIATE BEARING WITH TJI JOIST BLOCKING

MICRO=lam L.V.L. BEAM

TJI JOIST BLOCKING

TJI JOIST HANGER

HEADER OPENING WITH DOUBLE TJI JOISTS

FILLER BLOCK NAIL WITH 10-10d NAILS

BACKER BLOCK NAIL WITH 10-10d NAILS

STAIR STRINGER ATTACHMENT

BEARING BLOCK WITH 2 ROWS 10d NAILS-

FRAME ANCHOR EACH SIDE

TOP MOUNT HANGER @ BEAM

TYPICAL TJI DETAILS

Samples from www.AutoCADDetails.net