

Up to a 1-1/2" diameter hole allowed anywhere

Closest distance (x) to centerline of round hole

FROM EITHER SUPPORT

9-1/2"

9-1/2"

9-1/2"

11-7/8"

9-1/2"

11-7/8"

11-7/8"

11-7/8"

9-1/2"

11-7/8"

11-7/8"

9-1/2"

9-1/2"

1'-0"

3'-2"

1'-0"

1'-4"

1'-9"

2'-8"

1'-7"

Beam Hole Details

1/3 beam depth

1'-11"

2'-2"

2'-10"

2'-6"

CLOSEST DISTANCE (X) - (FT - IN)

SERIES

PWI 18S, LPI 18

PWI 20S,

LPI 20Plus

PWI 32S,

LPI 32Plus

PWI 42S,

LPI 42Plus

PWI 52S,

LPI 52Plus

PWI 36L,

LPI 36

PWI 56L,

PWI-53L,

LPI 530

SERIES

PWI 18S, LPI 18

PWI 20S,

LPI 20Plus

PWI 32S,

LPI 32Plus

PWI 42S,

LPI 42Plus

anywhere in the web.

without special engineering.

to-center, whichever is greater.

distributor for more details.

DO NOT CUT JOIST FLANGES!

recommended so as not to cut a flange.

CUT HOLES CAREFULLY! DO NOT OVERCUT HOLES

Round holes up to 1-1/2" diameter may be placed

Holes may be placed anywhere within the depth of the

web. A minimum 1/4" clear distance from the flanges is

. Holes larger than 1-1/2" are not permitted in cantilevers

Multiple holes shall have a clear separation along the

length of the joist of at least twice the larger dimension

of the larger adjacent hole, or a minimum of 12" center-

Multiple holes may be spaced closer provided they

fit within the boundary of an acceptable larger hole.

that a 3" high by 8" long rectangle or an 8" diameter

round hole are acceptable for the joist depth at that

continuous span I-Joists with uniform loads only, as

product guides. Larger holes, non-uniform loading

sized from the tables contained in PWT's current I-Joist

conditions and/or closer proximity to supports may be

possible, but require further analysis using PWT's design

software. Please contact your local Pacific Woodtech™

The maximum hole depth is the I-Joist Depth less 4,"

Dimension exceeds the hole depth, the dimension

assumed to be the maximum for that joist depth. The

maximum hole width is 18", regardless of I-Joist Depth.

refers to hole width and the depth of the hole is

of lumber is 15% or less over a year and does not exceed 19% at any time (CN).

except the maximum hole depth is 6" for 9-1/2" PWIs, and 8" for 11-7/8" PWIs. Where the Maximum Hole

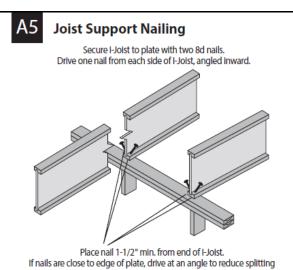
location and completely encompass the holes.

These web hole tables are valid for simple and

Example: two 3" round holes aligned parallel to the joist length may be spaced 2" apart (clear distance) provided

in the web. Closest spacing 1'-0" oc

Web Hole Details



WARNING: Do NOT cut or notch flanges.

Uncut length of web between adjacent holes shall be at least twice the largest dimension of the two holes

or 12" center-to-center, whichever is greater.

3'-3"

2'-9"

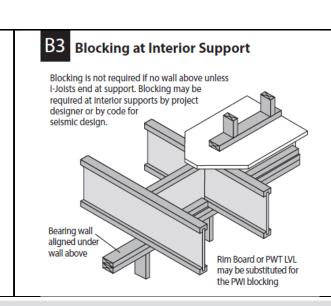
2'-5"

2'-7"

3'-0"

3'-5"

3'-11"



Closest distance (x) to edge of square or rectangular hole

FROM EITHER SUPPORT

4'-6"

5'-11"

8'-10"

11'-3"

11'-7"

6'-5" 7'-9" 9'-8" 10'-4" 11'-0" 11'-8" 12'-6"

7'-6" 9'-4"

6'-10" 9'-0"

8'-11" | 11'-8" |

5'-1"

CIRCULAR HOLE DIAMETER

3'-6"

3'-6"

4'-8"

4'-11"

7'-3"

8'-11"

9'-8"

6'-3"

6'-2"

RECTANGULAR HOLE MAXIMUM DIMENSION: DEPTH OR WIDTH

2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12"

5'-9"

6'-2"

4'-8"

7'-9"

6'-0"

7'-2" 8'-0" 9'-0" 10'-0" 10'-11" 12'-1" 13'-8" 14'-3" 14'-11" 15'-7" 16'-6"

5'-3" 6'-0" 6'-9" 7'-7" 8'-6" 9'-8" 11'-2" 13'-1" 15'-1" 17'-4" 20'-7"

Minimum 2 x diameter of larger hole

1/3 span length

Clear span

These quidelines apply to uniformly loaded beams selected from the Quick Reference Tables or the Uniform Load Tables within the LVL Beam and Header Technical Guide. For all other

Round holes can be drilled anywhere in "Area A" provided that: no more than four holes are cut, with the minimum spacing described in the diagram. The maximum hole size is 1-1/2"

6. Up to three 3/4" holes may be drilled in "Area B" to accommodate wiring and/or water lines. These holes must be at least 12" apart. The holes should be located in the middle third of

applications, such as beams with concentrated loads, please use the PWT's design software or contact your Pacific Woodtech distributor for assistance.

the depth, or a minimum of 3" from the bottom and top of the beam. For beams shallower than 9-1/4", locate holes at mid-depth.

4'-4" 4'-11" 5'-10" 7'-0" 8'-11" 9'-6" 10'-2" 10'-10"

4'-11" 5'-8"

5'-3" | 6'-0" | 6'-11" | 8'-1" | 9'-8" | 11'-5" | 12'-0" | 12'-6" | 13'-3" | 14'-0"

6'-2" 7'-6"

9'-7" 10'-7"

4'-0"

5'-3"

8'-0"

9'-8"

10'-5"

7'-9"

6'-1"

6'-8"

5'-7"

7'-2"

6'-10" 7'-10" 9'-1" 10'-10" 12'-7" 14'-7" 15'-4" 16'-3"

3'-10" 4'-8" 5'-6" 6'-5" 7'-5" 8'-9" 10'-8" 13'-9" 17'-2"

7'-4" 8'-2" 9'-3" 9'-7" 9'-11" 10'-4" 10'-9" 11'-3" 11'-9"

3'-9" 4'-3"

4'-4" 5'-0"

3'-6"

2'-11"

3'-1"

3'-8"

4'-0"

4'-5"

6'-0"

6'-8"

9'-0"

4'-11"

5'-4"

3'-11"

7'-5"

5'-1"

1'-11" 2'-8" 3'-9" 4'-11" 6'-1"

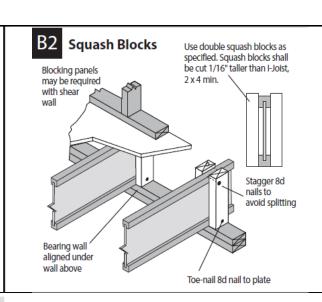
7'-7" 8'-7"

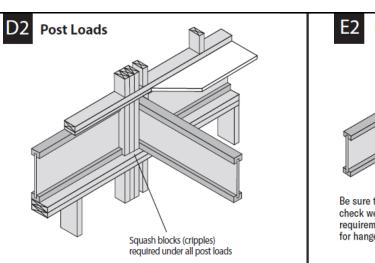
4'-9"

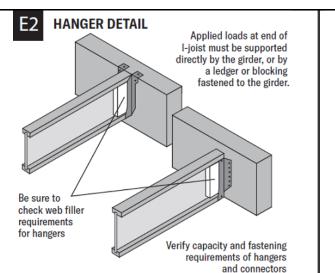
3'-8"

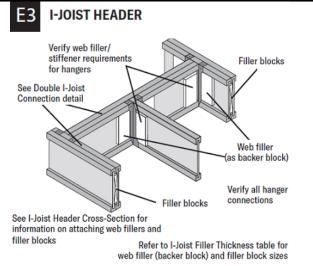
4'-3"

4'-2"

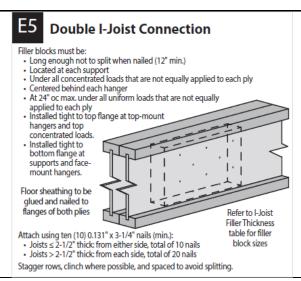








| Start Framing Here



I Joist (Flush)

Label Description

J12 | PWI 20S

J11 PWI 20S

J8 PWI 20S

J7 PWI 20S

J6 PWI 20S

J9 PWI 20S

LVL/LSL (Dropped)

Label | Description

Beam By Others (Dropped)

Label Description

Label Description

Label Description

Bk1 PWI 20S

Tolko Rim Board

Plus 1.125 X 14

Pcs Description

31 IUS2.56/14 (Min)

1 IUS2.56/11.88 (Max)

Rim Board

R2

Blocking

Hanger

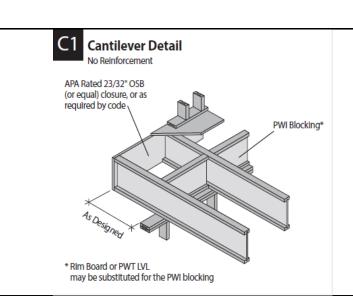
Label

FB4 2.0E 2900Fb PWT

FB2 2.0E 2900Fb PWT

FB3 2.0E 2900Fb PWT

LVL/LSL (Flush)



Depth

2.5

2.5

2.5

14

14

14

Depth

Depth

Qty

Qty

Beam/Girder

fasteners

12 10d

10 10d

14 LinFt

Width Depth

Width



2160 Satellite Blvd., Suite 450 Duluth, GA 30097 888-613-5078

FOCUSED ON EWP



Dealer 84 Lumber-Fayetteville #2307 Dealer Address 620 Belt Road Fayetteville, NC 28301 (910) 867-9185 Project CC2424-GL-505 CS January 14, 2025 Layout Name

2nd Floor ASD (USA) **Building Code** IRC 2018 180 240 180 240 180

> 23/32 APA Rated Sturd-I-Floor Nailed & Glued Web Stiffener

-WS Load From Above Interior Bearing Wall Non-Bearing Wall OSB/LSL Rim (Color Varies)

PWI 18S/20S I Joist PWI 42S/90L I Joist

Triforce/Open Joist (Color Varies) Dropped Beam (Color Varies By Product) Flush Beam (Color Varies By Product) Field Framed Pony Wall

20 4-0-0 Plies Pcs Length

Pcs

14

Pcs

Pcs

Pcs

Pcs

Varies

fasteners

2 10dx1 1/2

Plies

Plies

Plies

2 20-0-0

Length

16-0-0 || Created Supported Member CC2424-GL-505 CS Description CC2424-GL-505 CS

Designer Kyle Militzer Revised January 24, 2025

Deflection Joist LL Span L/ TL Span L/ LL Cant 2L/ TL Cant 2L/ Deflection Flush Girder LL Span L/ TL Span L/ LL Cant 2L/ TL Cant 2L/ Deflection Dropped Girder LL Span L/ TL Span L/ LL Cant 2L/ TL Cant 2L/ Deflection Header LL Span L/ TL Span L/ LL Cant 2L/ TL Cant 2L/ Decking Decking

Fastener Legend In Hanger Label Denotes Web Point Load Support (D2 Detail) Exterior Bearing Wall

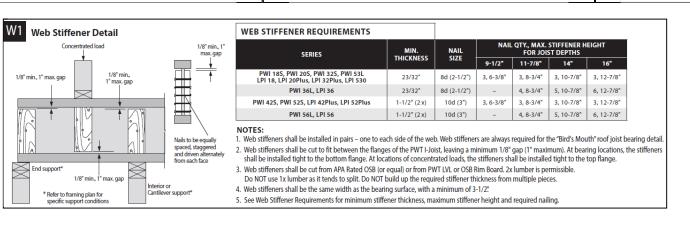
PWI 32S I Joist

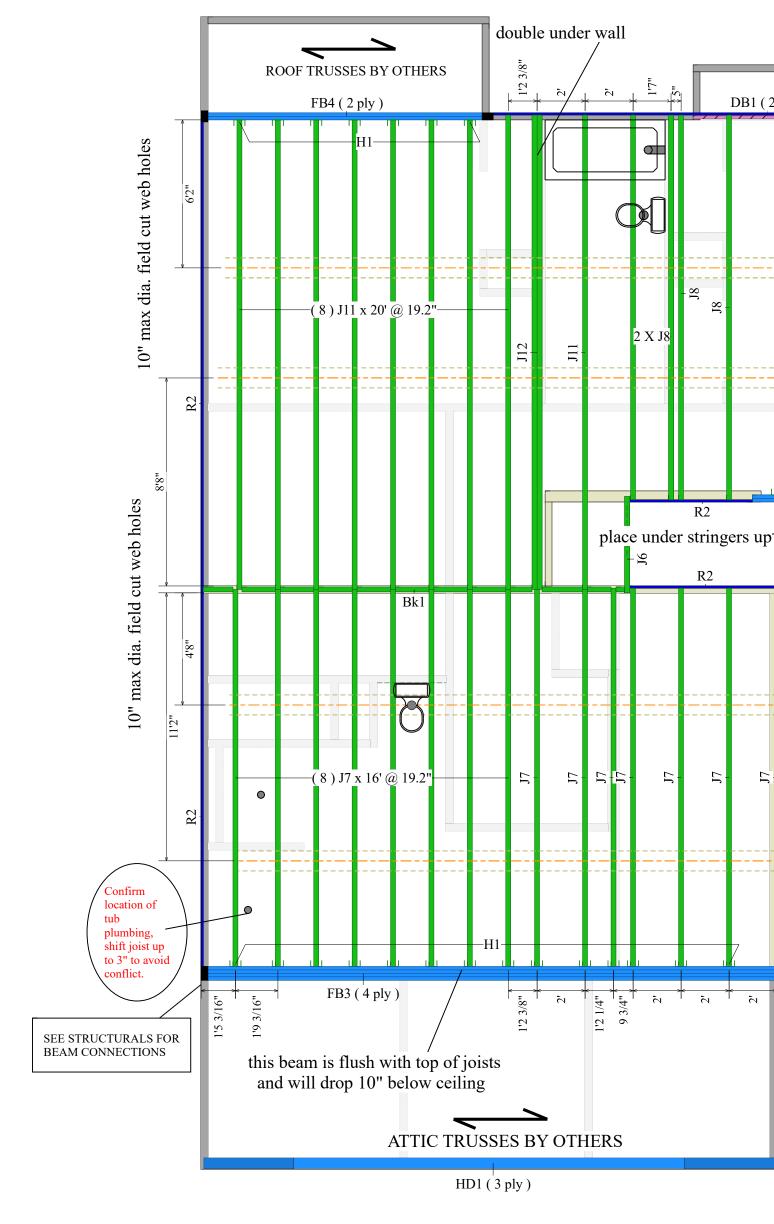
Column

For access to the PWT installation guide, please use the camera function on your mobile device and scan this QR Code or use the web address shown below to gain access to the installation guide.

Installation Guide

https://pwtewp.com/products/pwi-joist/#features





This layout is for LP, PWT and Tolko product placement reference only. This project has sealed structural drawings which have precedence. (5) J11 x 20' @ 19.2"—

DB4 (2 ply)

FB2 (2 ply)

Refer to structural drawings for critical beam and dbl joist locations. Refer to structural drawings for details not shown here. Refer to structural drawings for dimensional lumber size and spacing.

2ND FLOOR FRAMING

SCALE: 1/4'' = 1'

This Material Take Off is provided as an estimate of material needed for the referenced project. It is based on information provided and

standard building and construction assumptions. The Take Off is provided without representation or warranty of any kind and is in no

way guaranteed to reflect the exact quantity or types of material necessary to complete the project. The customer/builder and/or the

architect/engineer are responsible for reviewing and verifying the listed materials based on the way they plan to construct the project.

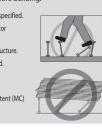
Actual material required to complete the project may be more or less than what is reflected in the Take Off, and any shortages or

overages are the sole responsibility of the customer/builder and/or the architect/engineer

JOIST LABELING SCHEME: (QTY) MARK x LENGTH @ O.C. SPACING

Important Notes	WARNING: Failure to follow proper procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse.
are, however, solely general recommer	de to good practice in the handling, storage and installation of PWT I-Joists and LVL. They indations and, in some instances, other or additional precautions may be desirable. In all as specified by the architect/engineer responsible for the entire building.
This wilds is not intended for our direct related	tion and assumes that all components and details have been correctly specified

Consult the PWT I-Joist & LVL brochures, technical guides, installation guide, or contact your PWT products distributor No loads other than the weight of the workers are to be imposed on the structure before it is permanently sheathed. After sheathing, do not overload joists with construction materials exceeding design loads. • PWT Untreated products (I-Joists and LVL) must be used under dry, covered and well-ventilated interior conditions



for depths up to 9-1/4", and 2" for depths greater than 9-1/4".

For more information, contact your Pacific Woodtech distributor.

4. DO NOT drill holes in cantilevers without prior approval from the project engineer/architect.

5. Other hole sizes and configurations MAY be possible with further engineering analysis

Rectangular holes are NOT allowed.

Protect plumbing holes from moisture.

Product Substitution Warning AILURE may result if this product is stituted with other brands or products his analysis is for PACIFIC WOODTECH oducts only. US Lumber will not be held ponsible if other brands are substitute

This placement plan is to be used as an installation guide only. It is meant to be used in conjunction with the manufacturers installation guide, the architectural and structural drawings, and not to replace them.