

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

Closest distance (x) to centerline of round hole

FROM EITHER SUPPORT

9-1/2"

11-7/8"

9-1/2"

11-7/8"

9-1/2"

11-7/8"

9-1/2"

11-7/8"

11-7/8"

11-7/8"

11-7/8"

9-1/2"

11-7/8"

9-1/2"

11-7/8"

9-1/2"

11-7/8"

9-1/2"

11-7/8"

CLOSEST DISTANCE (X) - (FT - IN)

SERIES

PWI 18S, LPI 18

PWI 205,

LPI 20Plus

PWI 32S,

LPI 32Plus

PWI 42S,

LPI 42Plus

PWI 52S,

LPI 52Plus

PWI 36L,

LPI 36

PWI 56L,

LPI 56

PWI-53L,

LPI 530

SERIES

PWI 18S, LPI 18

PWI 20S,

LPI 20Plus

PWI 325,

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!

. CUT HOLES CAREFULLY! DO NOT OVERCUT HOLES!

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

recommended so as not to cut a flange.

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,"

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

Dimension exceeds the hole depth, the dimension

assumed to be the maximum for that joist depth. The

maximum hole width is 18, regardless of 1-Joist Depth.

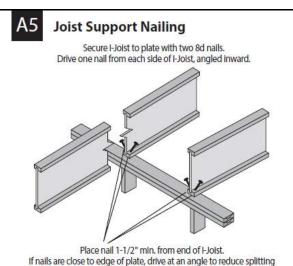
refers to hole width and the depth of the hole is

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



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

1'-10"

1'-4"

1'-9"

2'-8"

1'-7"

Beam Hole Details

3'-9" 4'-2" 4'-9" 5'-5"

1'-0"

3'-2"

1'-10"

1'-3"

1'-0"

2'-7"

1'-11"

2'-2"

2'-10"

2'-6"

3'-3"

2'-9"

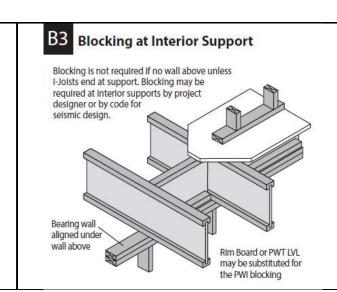
2'-5"

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"

3'-9" 4'-3" 4'-8" 5'-1"

5'-1"

6'-7"

CIRCULAR HOLE DIAMETER

3'-6"

3'-6"

4'-8"

7'-3"

8'-11"

9'-8"

6'-3"

6'-2"

5'-9"

6'-2"

4'-8"

7'-9"

6'-0"

4'-4" 5'-0"

4'-11" 5'-6"

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"

8'-2"

7'-2"

4'-11" 5'-8"

3'-6"

2'-11"

3'-1"

3'-4"

3'-8"

4'-0"

4'-5"

6'-0"

6'-8"

9'-0"

6'-0"

4'-11"

5'-4"

5'-9"

3'-11"

7'-5"

5'-1"

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

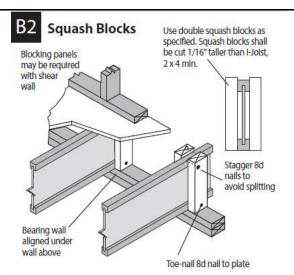
7'-7" 8'-7"

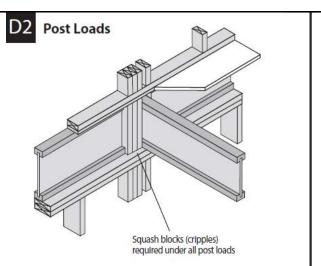
4'-9"

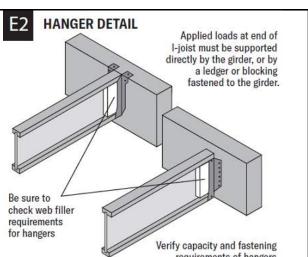
3'-8"

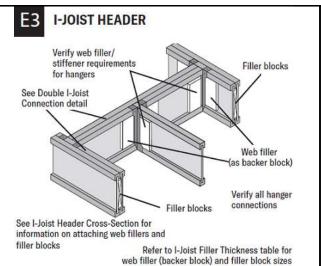
4'-3"

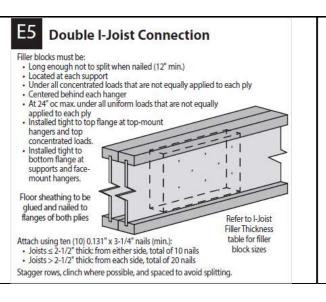
4'-2"











Joist (Flush)

Label |Description

J3 PWI 20S

J2 PWI 20S

J1 PWI 20S

J9 PWI 32S

J10 PWI 32S

Label |Description

FB1 2.0E 2900Fl **PWT LVL**

FB2 2.0E 2900Fb

LVL/LSL (Dropped)

Label Description

DB1 2.0E 2900Fb

HD2-A 2.0E 2900Fb

HD1 2.0E 2900Fb

HD4 2.0E 2900Fb

HD3 | 2.0E 2900Fb

PWT LVL

PWT LVL HD2-B 2.0E 2900Fb

PWT LVL

PWT LVL

PWT LVL

PWT LVL

PWT LVL

Beam By Others (Dropped

Label Description

C1-A Boozer 1.9E

C1-B Boozer 1.9E

Label Description

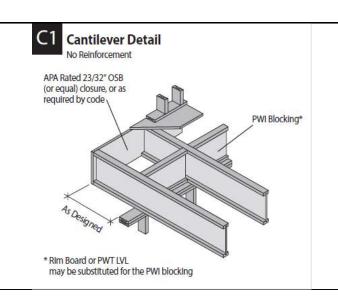
R1 Tolko Rim Board

Rim Board

Column 3.5" X 7

Column 3.5" X 7"

LVL/LSL (Flush)



Plies

Qty | Plies |

Plies

Plies

4 14-0-

14 24-0-

2 20-0-0

Pcs Length

Pcs Length

Pcs | Length

Beam/Girder

fasteners

12 10d

Width | Depth |

2.5

2.5

2.5

2.5

Width | Depth |

1.75 9.25

1.75 9.25

1.75 9.25

1.75 | 11.875

1.75 | 11.875

Width Depth

Width | Depth | Qty | Plies |

Width | Depth | Qty |

1.125

Pcs Description

11 IUS2.56/14 (Min)



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





| Dealer |
|------------------------------|
| 84 Lumber-Fayetteville #2307 |
| Dealer Address |
| 620 Belt Road |
| Fayetteville, NC 28301 |
| (910) 867-9185 |
| Project |

82734 Created January 29, 2020 Layout Name

202510-82734 Description Caviness Land CL2862-CP-3C-GL

Designer Will Evans

Revised October 01, 2025 2nd Flr

Design Method ASD (USA) Building Code IRC 2021 **Deflection Joist** LL Span L/ TL Span L/ LL Cant 2L/ 180 TL Cant 2L/ Deflection Flush Girder LL Span L/ TL Span L/ 240 LL Cant 2L/ 180 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/

Decking

Decking

TL Cant 2L/ 23/32 APA Rated Sheathing

240

240

180

240

180

Nailed & Glued Fastener Legend WS Web Stiffener -WS In Hanger Label Denotes Web

Stiffener Point Load Support (D2 Detail) Load From Above Exterior Bearing Wall Interior Bearing Wall Non-Bearing Wall

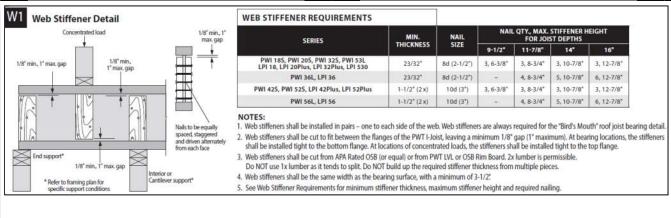
OSB/LSL Rim (Color Varies) PWI 18S/20S I Joist PWI 32S I Joist

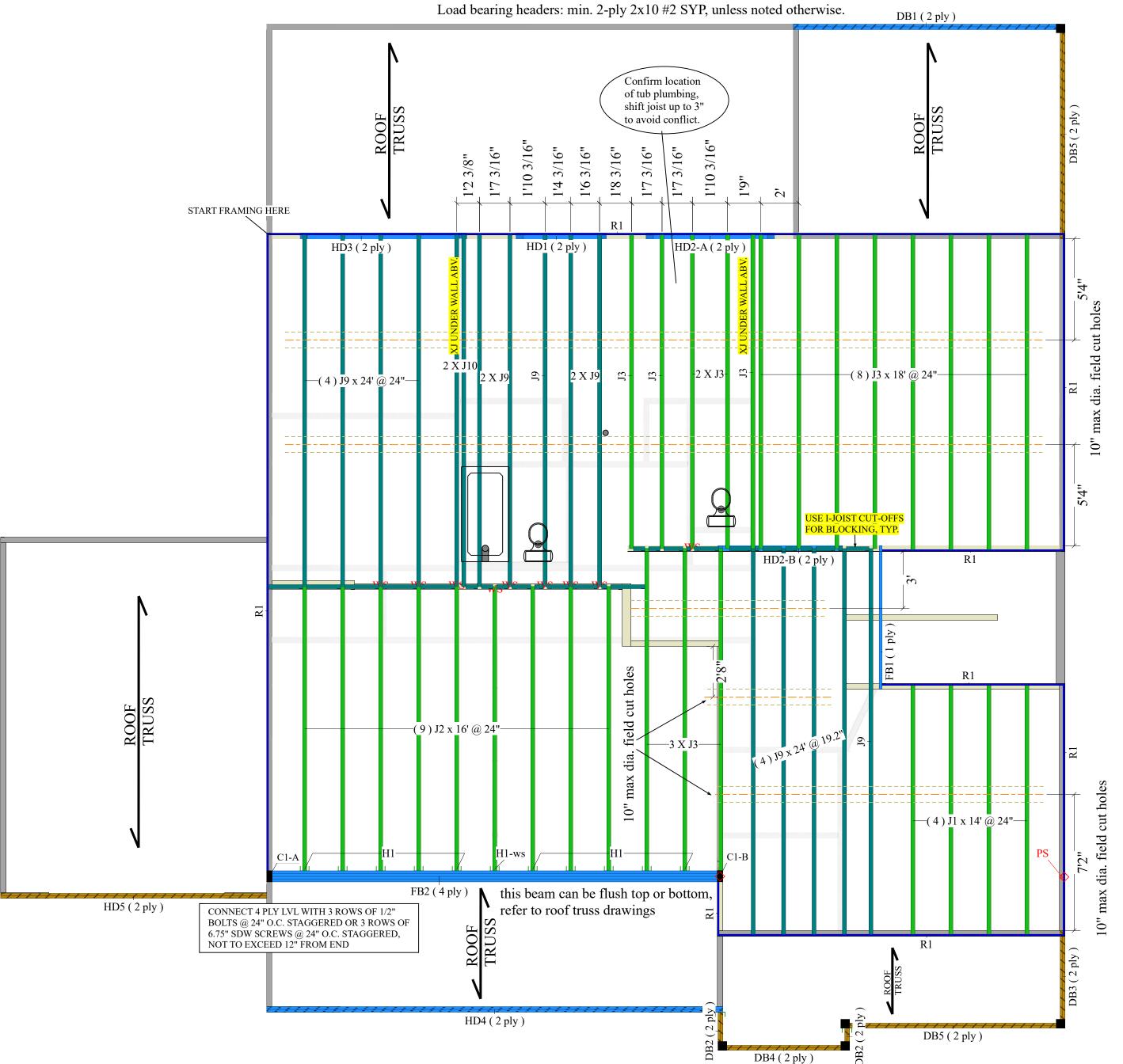
PWI 42S/90L I Joist Triforce/Open Joist (Color Varies)

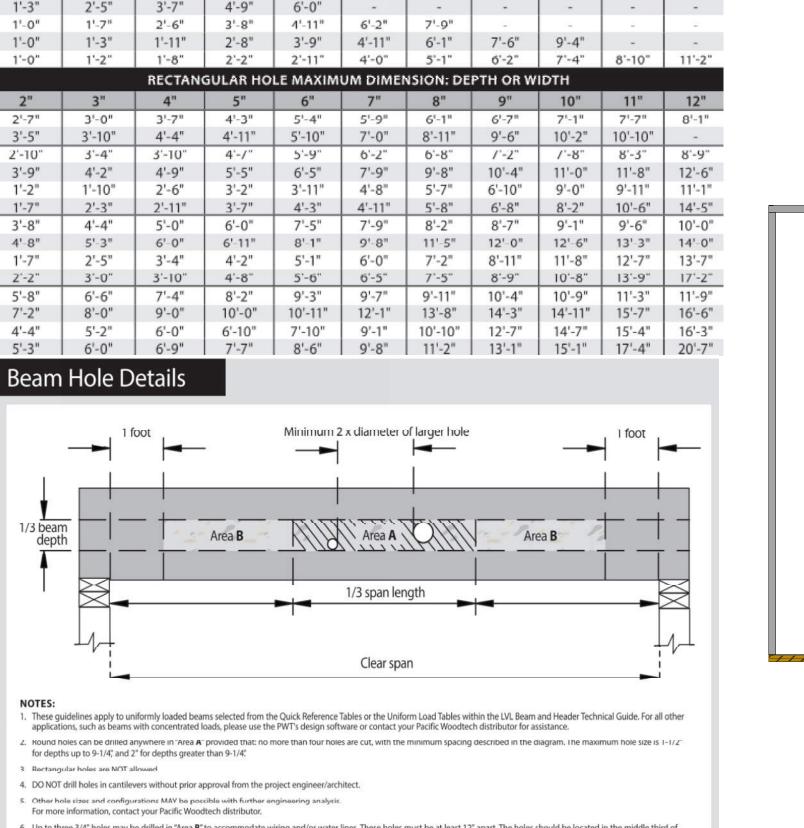
Dropped Beam (Color Varies By Product) Flush Beam (Color Varies By Product) Field Framed Pony Wall

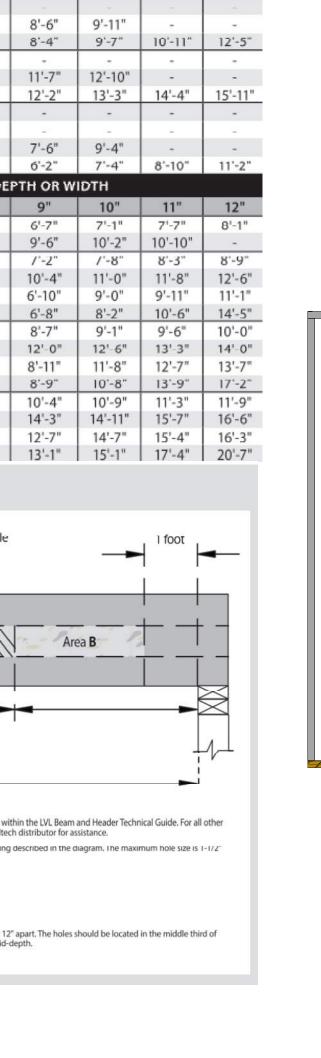
Column

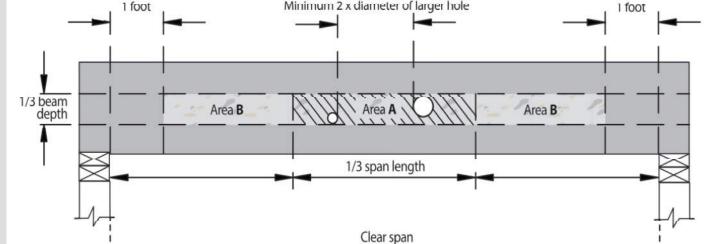
Be sure to check web filler requirements for hangers requirements of hangers and connectors WEB STIFFENER REQUIREMENTS











- . 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 applications, such as beams with concentrated loads, please use the PWT's design software or contact your Pacific Woodtech distributor for assistance. $Kound\ holes\ can\ be\ drilled\ anywhere\ in\ "Area\ \textbf{A}"\ provided\ that:\ no\ more\ than\ four\ holes\ are\ cut,\ with\ the\ minimum\ spacing\ described\ in\ the\ diagram.\ The\ maximum\ hole\ size\ is\ 1-1/2"\ holes\ hol$
- 3. Rectangular holes are NOT allowed.
- ${\bf 4. \ \ DO\ NOT\ drill\ holes\ in\ cantilevers\ without\ prior\ approval\ from\ the\ project\ engineer/architect.}$
- 5. Other hole sizes and configurations MAY be possible with further engineering analysis. For more information, contact your Pacific Woodtech distributor.

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

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. 7. Protect plumbing holes from moisture.

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

mportant Notes WARNING: Failure to follow proper procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse. hese instructions are offered as a guide to good practice in the handling, storage and installation of PWT I-Joists and LVL. They are, however, solely general recommendations and, in some instances, other or additional precautions may be desirable. In all ses, the procedures used should be as specified by the architect/engineer responsible for the entire building. This guide is not intended for product selection, 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 of lumber is 15% or less over a year and does not exceed 19% at any time (CN).

Product Substitution Warning AILURE may result if this product is ostituted with other brands or products This analysis is for PACIFIC WOODTECH roducts only. US Lumber will not be held sponsible if other brands are substitute



SCALE: 1/4'' = 1'

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

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



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