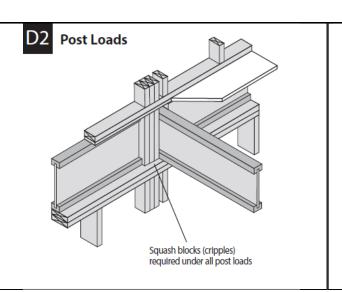


1/8" min., 1" max. gap



10" max. round holes cut in field

411 111

PWI 36L, LPI 36 23/32" 8d (2-1/2") - 4, 8-3/4" 5, 10-7/8" 6, 12-7/8"

PWI 56L, LPI 56 1-1/2" (2 x) 10d (3") - 4, 8-3/4" 5, 10-7/8" 6, 12-7/8"

2. Web stiffeners shall be cut to fit between the flanges of the PWT I-Joist, leaving a minimum 1/8" gap (1" maximum). At bearing locations, the stiffeners shall be installed tight to the bottom flange. At locations of concentrated loads, the stiffeners shall be installed tight to the top flange.

PWI 42S, PWI 52S, LPI 42Plus, LPI 52Plus 1-1/2" (2 x) 10d (3") 3, 6-3/8" 3, 8-3/4" 3, 10-7/8" 3, 12-7/8"

NOTES:

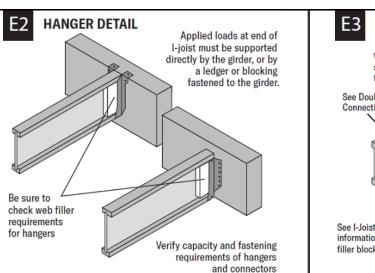
1. Web stiffeners shall be installed in pairs – one to each side of the web. Web stiffeners are always required for the "Bird's Mouth" roof joist bearing deta

. Web stiffeners shall be cut from APA Rated OSB (or equal) or from PWT LVL or OSB Rim Board. 2x lumber is permissible.

Do NOT use 1x lumber as it tends to split. Do NOT build up the required stiffener thickness from multiple pieces.

5. See Web Stiffener Requirements for minimum stiffener thickness, maximum stiffener height and required nailing

4. Web stiffeners shall be the same width as the bearing surface, with a minimum of 3-1/2."



2nd Floor

LVL/LSL (Flush)

Label Description

Label Description

VL/LSL (Dropped)

FB3 2.0E 2900Fb PWT LY

FB1 2.0E 2900Fb PWT LV

FB2 2.0E 2900Fb PWT I

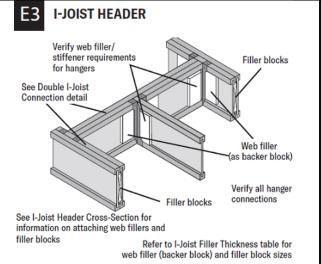
DB2 2.0E 2900Fb PWT I

DB1 2.0E 2900Fb PWT LV

HD1 2.0E 2900Fb PWT L

HD3 2.0E 2900Fb PWT L

HD2 2.0E 2900Fb PWT I



Plies

Plies

Pcs

Pcs

Length

4-0-0

Width

Width

1.75

1.75

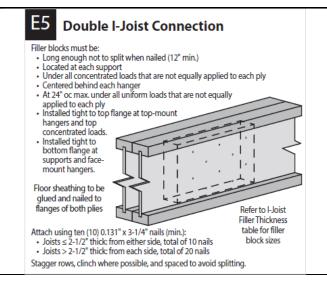
1.75

Depth

Depth

9.25

11.875



2nd Floor

I Joist (Flush)

Label Description

J5 PWI 20S

J1 PWI 20S

J4 PWI 20S

J10 | PWI 20S

J3 | PWI 20S

J6 | PWI 20S

J2 PWI 20S

FB4 PWI 20S

DB3 Rim Board

Blocking

Beam By Others (Dropped)

Label Description

Label Description

Label Description

Bk1 PWI 20S

R1 Tolko Rim Board

Plus 1.125 X 14

Pcs

12

2.5

2.5

2.5

2.5

2.5

2.5

Width | Depth |

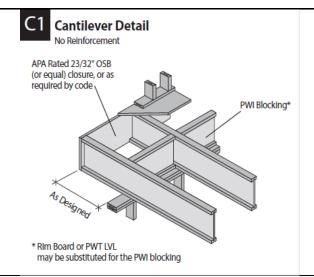
Width Depth

Width | Depth |

Description

IUS2.56/14 (Min)

14





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 73124 Created March 30, 2015 Layout Name 202504-73124 Description Caviness Land CL3034-GR-CS470

Designer Will Evans Revised April 01, 2025

2nd Floor Design Method Building Code

Deflection Joist LL Span L/ TL Span L/ LL Cant 2L/ TL Cant 2L/ Deflection Flush Girder LL Span L/ TL Span L/

ASD (USA)

IRC 2021

360

360 360

240

360

360

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

23/32 APA Rated Sturd-I-Floor Nailed & Glued Fastener

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

Load From Above 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

Plies

Plies

Plies

Plies

Qty

14 | LinFt

12

1 22-0-

8 20-0-

15 18-0-0

1 8-0-0

Pcs | Length

Pcs | Length

Pcs | Length

Varies | 20-0-0

16

Beam/Girder

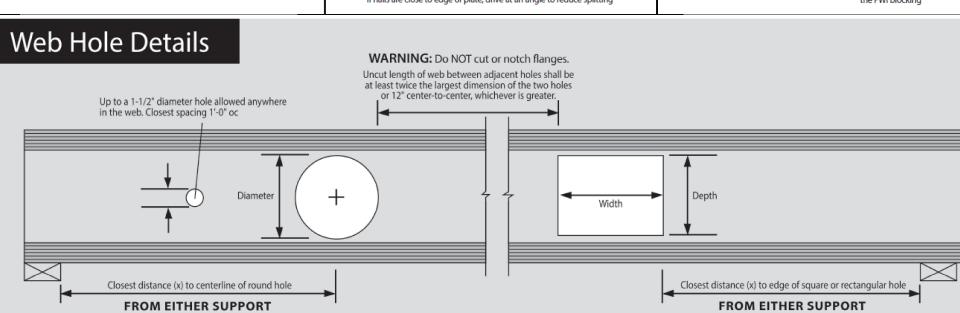
fasteners

12 10d

4-0-0

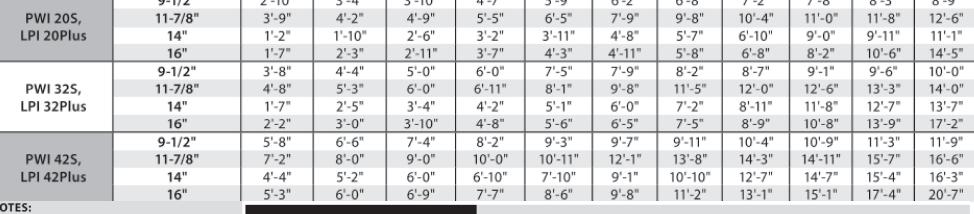
1

5



Clos				-	←	nce (x) to edge of				
CLOSEST DI	STANCE (X) - (FT - IN)								
SERIES	DEPTH	CIRCULAR HOLE DIAMETER								
SERIES	DEFIN	2"	3"	4"	5"	6"	7"	8"	9"	10"
PWI 18S, LPI 18	9-1/2"	1'-2"	1'-10"	2'-7"	3'-3"	4'-3"	-	-	-	-
PWI 103, LPI 10	11-7/8"	1'-0"	1'-5"	2'-1"	2'-9"	3'-6"	4'-3"	5'-5"	-	-
	0.1/2"	1' 0"	1! 0"	1' 5"	21 011	21.0"				

CEDIEC	DEPTH				(IRCULAR	HOLE DIA	METER				
SERIES	DEPIR	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
DMII 406 1 DI 40	9-1/2"	1'-2"	1'-10"	2'-7"	3'-3"	4'-3"	-	-	-	-	-	-
PWI 18S, LPI 18	11-7/8"	1'-0"	1'-5"	2'-1"	2'-9"	3'-6"	4'-3"	5'-5"	-	-	-	-
	9-1/2"	1'-0"	1'-0"	1'-5"	2'-0"	2'-8"	-	-	-	-	-	-
PWI 20S,	11-7/8"	1'-0"	1'-4"	1'-11"	2'-5"	2'-11"	3'-6"	4'-0"	-	-	-	-
LPI 20Plus	14"	1'-3"	1'-8"	2'-2"	2'-7"	3'-1"	3'-6"	4'-0"	4'-6"	5'-1"	-	-
	16"	1'-8"	2'-1"	2'-6"	2'-11"	3'-4"	3'-9"	4'-3"	4'-8"	5'-1"	5'-7"	6'-3"
	9-1/2"	1'-0"	1'-2"	1'-11"	2'-9"	3'-6"	-	-	-	-	-	-
PWI 32S,	11-7/8"	1'-1"	1'-9"	2'-5"	3'-0"	3'-8"	4'-4"	5'-0"	-	-	-	-
LPI 32Plus	14"	1'-8"	2'-3"	2'-10"	3'-5"	4'-0"	4'-8"	5'-3"	5'-11"	6'-7"	-	-
	16"	2'-4"	2'-10"	3'-4"	3'-11"	4'-5"	4'-11"	5'-6"	6'-1"	6'-8"	7'-4"	8'-2"
	9-1/2"	1'-3"	2'-3"	3'-4"	4'-4"	5'-5"	-	-	-	-	-	-
PWI 42S,	11-7/8"	3'-2"	3'-10"	4'-7"	5'-3"	6'-0"	6'-9"	7'-8"	-	-	-	-
LPI 42Plus	14"	4'-5"	5'-0"	5'-7"	6'-1"	6'-8"	7'-3"	8'-0"	8'-10"	9'-11"	-	-
	16"	5'-4"	5'-10"	6'-4"	6'-10"	7'-4"	7'-10"	8'-6"	9'-3"	10'-0"	11'-0"	12'-3"
DWI 536	11-7/8"	5'-0"	5'-6"	6'-2"	6'-9"	7'-5"	8'-2"	8'-11"	-	-	-	-
PWI 52S, LPI 52Plus	14"	6'-1"	6'-7"	7'-1"	7'-7"	8'-3"	8'-11"	9'-8"	10'-6"	11'-4"	-	-
LPI 52PIUS	16"	7'-1"	7'-6"	7'-11"	8'-5"	9'-0"	9'-8"	10'-5"	11'-3"	12'-1"	12'-11"	13'-9"
DWI 261	11-7/8"	1'-0"	2'-0"	3'-0"	4'-0"	5'-1"	6'-2"	7'-6"	-	-	-	-
PWI 36L, LPI 36	14"	1'-10"	2'-8"	3'-7"	4'-5"	5'-4"	6'-3"	7'-3"	8'-6"	9'-11"	-	-
LFI 30	16"	2'-2"	3'-1"	3'-11"	4'-9"	5'-7"	6'-5"	7'-4"	8'-4"	9'-7"	10'-11"	12'-5"
DWI 561	11-7/8"	3'-9"	4'-9"	5'-9"	6'-9"	7'-9"	8'-10"	9'-11"	-	-	-	-
PWI 56L, LPI 56	14"	4'-10"	5'-9"	6'-8"	7'-7"	8'-7"	9'-7"	10'-7"	11'-7"	12'-10"	-	-
LFI 30	16"	6'-0"	6'-11"	7'-9"	8'-8"	9'-7"	10'-5"	11'-4"	12'-2"	13'-3"	14'-4"	15'-11"
	9-1/2"	1'-3"	2'-5"	3'-7"	4'-9"	6'-0"	-	-	-	-	-	-
PWI-53L,	11-7/8"	1'-0"	1'-7"	2'-6"	3'-8"	4'-11"	6'-2"	7'-9"	-	-	-	-
LPI 530	14"	1'-0"	1'-3"	1'-11"	2'-8"	3'-9"	4'-11"	6'-1"	7'-6"	9'-4"	-	-
	16"	1'-0"	1'-2"	1'-8"	2'-2"	2'-11"	4'-0"	5'-1"	6'-2"	7'-4"	8'-10"	11'-2"
CEDIEC	DERTH			RECTAN	CTANGULAR HOLE MAXIMUM DIMENSION: DEPTH OR WIDTH							
SERIES DEPTH	DEFIN	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
DWI 406 15140	9-1/2"	2'-7"	3'-0"	3'-7"	4'-3"	5'-4"	5'-9"	6'-1"	6'-7"	7'-1"	7'-7"	8'-1"
PWI 18S, LPI 18	11-7/8"	3'-5"	3'-10"	4'-4"	4'-11"	5'-10"	7'-0"	8'-11"	9'-6"	10'-2"	10'-10"	-
	9-1/2"	2'-10"	3'-4"	3'-10"	4'-7"	5'-9"	6'-2"	6'-8"	7'-2"	7'-8"	8'-3"	8'-9"



- 4. DO NOT drill holes in cantilevers without prior approval from the project engineer/architect.
- For more information, contact your Pacific Woodtech distributor.
- 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 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.

						2 11				
7'-2"	8'-0"	9'-0"	10'-0"	10'-11"	12'-1"	13'-8"	14'-3"	14'-11"	15'-7"	16'-6
4'-4"	5'-2"	6'-0"	6'-10"	7'-10"	9'-1"	10'-10"	12'-7"	14'-7"	15'-4"	16'-3'
5'-3"	6'-0"	6'-9"	7'-7"	8'-6"	9'-8"	11'-2"	13'-1"	15'-1"	17'-4"	20'-7
Beam	Hole D	etails								
	_ → 1 f	oot		Minimum 2	2 x diameter (of larger hole		_	1 foot	-
.		l l				1				
1/3 bear dept	n h	-	Area B		Area A	1110	Are	ea B	\vdash \dashv	
A A					7 / 7 7 7 / 7		\ <u></u>		- $-$	
		_			1/3 span ler	ngth	1-			\leq
	T/\-								ļ	- ∤-
					Clear spa	an			_	

N	OTES:
	These guidelines 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.
	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" for depths up to 9-1/4," and 2" for depths greater than 9-1/4."
3	Rectangular holes are NOT allowed

Important Notes WARNING: Failure to follow proper procedures for handling, storage and installation could result in unsatisfactory performance, unsafe structures and possible collapse. These 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 ases, 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

. CUT HOLES CAREFULLY! DO NOT OVERCUT HOLES!

recommended so as not to cut a flange.

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

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.

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

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

Holes may be placed anywhere within the depth of the web. A minimum 1/4" clear distance from the flanges is

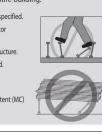
DO NOT CUT JOIST FLANGES!

anywhere in the web.

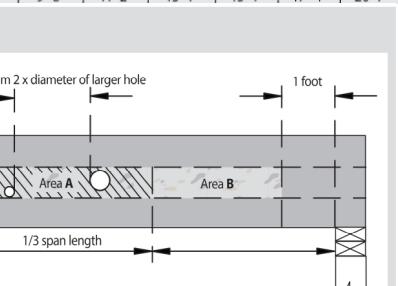
without special engineering.

to-center, whichever is greater.

distributor for more details.



AILURE may result if this product is sponsible if other brands are substitute



1/3 beam depth	Area B Area B
	1/3 span length
	Clear span
NOTES:	

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

Product Substitution Warning stituted with other brands or products his analysis is for PACIFIC WOODTECH roducts only. US Lumber will not be held

R1 HD1 (2 ply) DB3 (2 ply) shift FB4 4" for plumbing —(6) J3 x 18' @ 24"—

(5) J4 x 20' @ 24"

─(7) J5 x 22' @ 24"<mark></mark>─

2ND FLOOR FRAMING 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

DB4 (2 ply)



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