

42'-0**"**

24'-2"

17'-10"

SPACE DATA

3rd CAR GARAGE OPTION: 266 SF

1444 SF 1418 SF 2862 SF

514 SF

96 SF

154 SF

FIRST FLOOR, HEATED:

TOTAL HEATED:

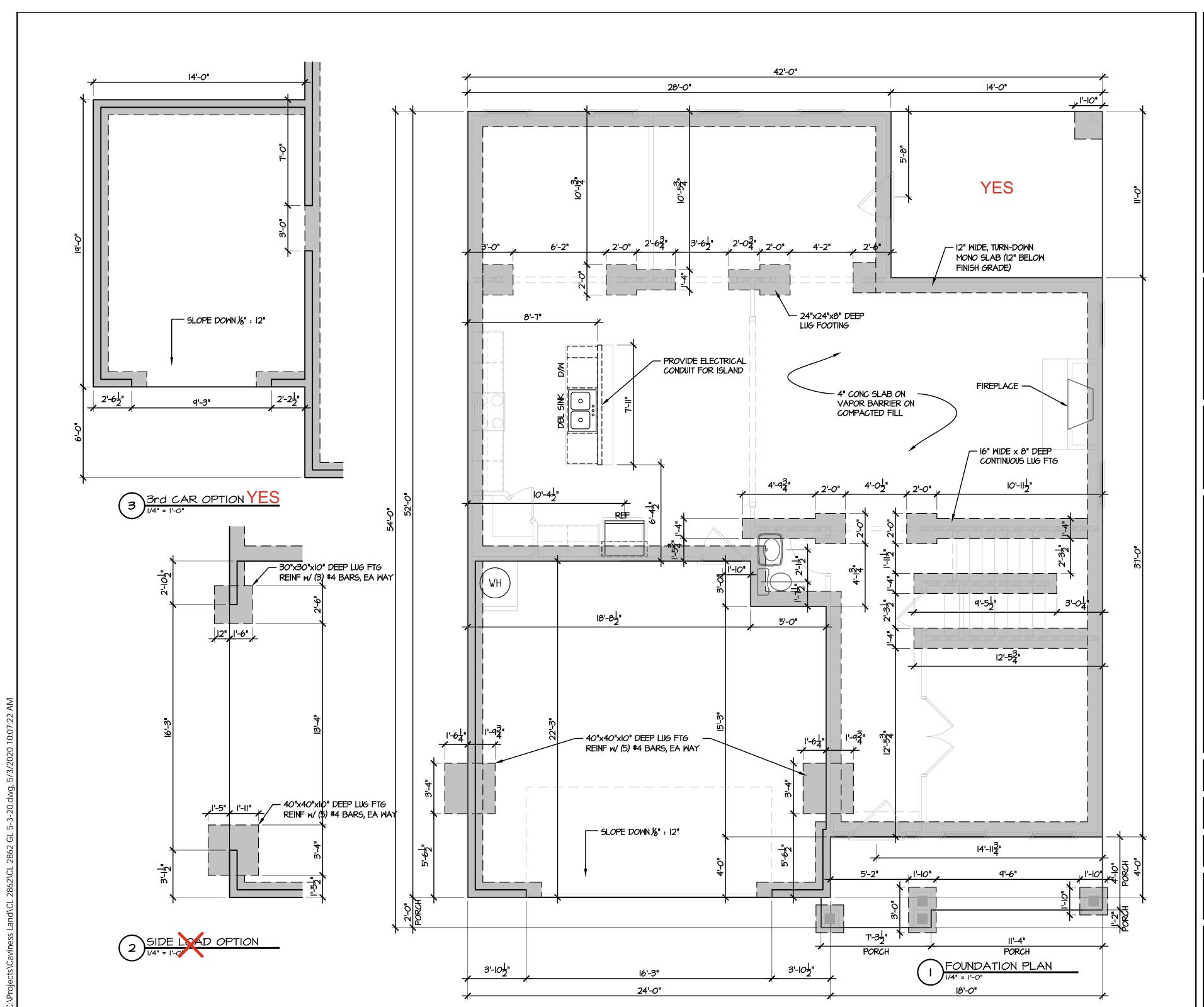
FRONT PORCH:

REAR PORCH:

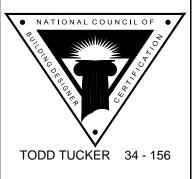
GARAGE:

SECOND FLOOR, HEATED:

S







© 2019 CavLand 1041-B Robeson St Fayetteville, NC 28305 Office: 910-339-6330 Fax: 910-339-6333

CL 2862

 \mathbf{W}

SCALE: AS NOTED

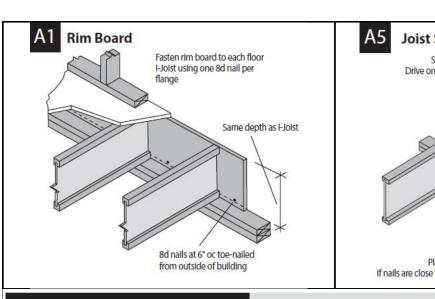
DATE:
APRIL 2019

PLAN: CL 2862

LOT NO:

SHEET NO:

3



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.

mportant Notes WARNING: Failure to follow proper procedures for handling, storage and installation

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.

PWT Untreated products (I-Joists and LVL) must be used under dry, covered and well-ventilated interior conditions

could result in unsatisfactory performance, unsafe structures and possible collapse.

refers to hole width and the depth of the hole is

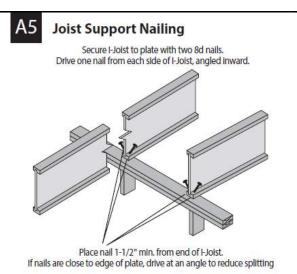
location and completely encompass the holes.

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

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

1'-10"

1'-4"

1'-9"

2'-8"

1'-7"

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"

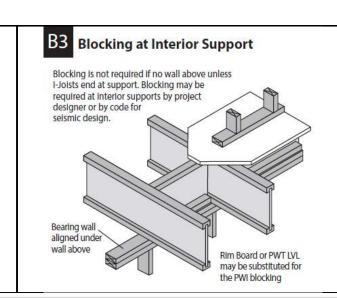
6'-8" 7'-7" 8'-7"

4'-9"

3'-8"

4'-3"

4'-2"



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

4'-6"

5'-11"

8'-10"

11'-3"

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"

4'-0"

5'-3"

8'-0"

9'-8"

10'-5"

7'-4"

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"

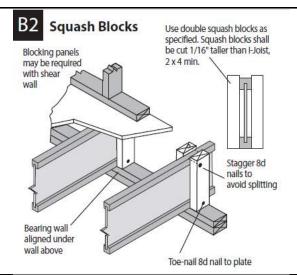
5'-9"

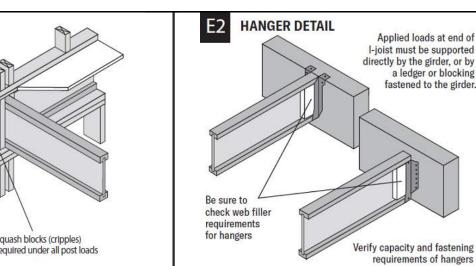
3'-11"

7'-5"

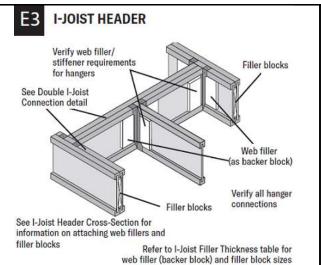
5'-1"

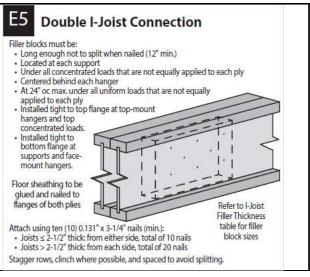
1'-11" 2'-8" 3'-9" 4'-11" 6'-1"





Load bearing headers: min. 2-ply 2x10 #2 SYP, unless noted otherwise.





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)

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 |

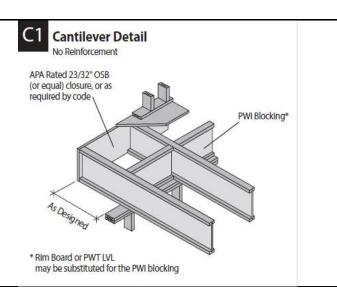
Width | Depth | Qty | Plies |

Width | Depth | Qty |

1.125

Pcs Description

11 IUS2.56/14 (Min)



Plies

Qty | Plies |

Plies

Plies

Pcs Length

16 18-0-0

9 16-0-0

4 14-0-

14 24-0-0

2 20-0-0

Pcs Length

Pcs | Length

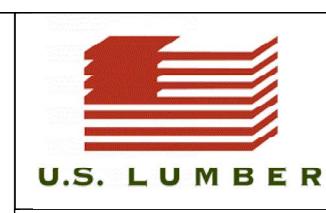
Pcs Length

Pcs | Length

Beam/Girder

fasteners

12 10d



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





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

Dealer

October 01, 2025 2nd Flr Design Method Building Code

TL Cant 2L/

LL Span L/

Decking

Decking

Deflection Header

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/ 240 TL Span L/ 240 LL Cant 2L/

ASD (USA)

IRC 2021

180

TL Span L/ 240 LL Cant 2L/ TL Cant 2L/ 180 23/32 APA Rated

Sheathing Nailed & Glued Fastener Legend Web Stiffener In Hanger Label Denotes Web

WS -WS 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

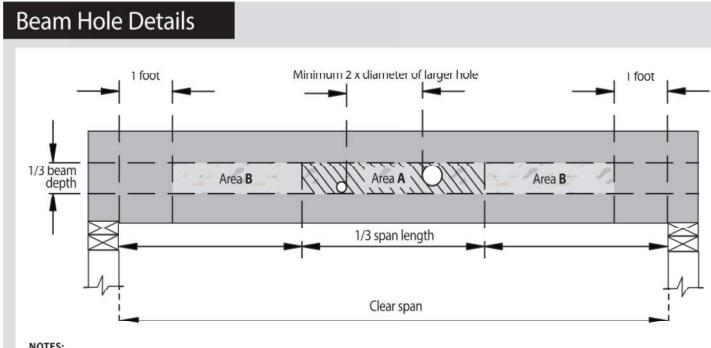
Squash blocks (cripples Verify capacity and fastening required under all post loads requirements of hangers and connectors WEB STIFFENER REQUIREMENTS

W1 Web Stiffener Detail 1/8" min., 1" max. gap

PWI 36L, LPI 36 23/32" 8d (2-1/2") - 4, 8-3/4" 5, 10-7/8" 6, 12-7/8" PWI 425, PWI 525, 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" PWI 56L, LPI 56 1-1/2* (2 x) 10d (3*) - 4, 8-3/4* 5, 10-7/8* 6, 12-7/8* 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 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. 3. 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. 4. Web stiffeners shall be the same width as the bearing surface, with a minimum of 3-1/2. 5. See Web Stiffener Requirements for minimum stiffener thickness, maximum stiffener height and required nailing

D2 Post Loads

FROM EITHER SUPPORT 5'-1" 3'-9" 4'-3" 4'-8" 5'-1" 6'-7" 9'-7" | 10'-7" | 11'-7" | 12'-10" RECTANGULAR HOLE MAXIMUM DIMENSION: DEPTH OR WIDTH 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12" 4'-4" 4'-11" 5'-10" 7'-0" 8'-11" 9'-6" 10'-2" 10'-10" 6'-5" 7'-9" 9'-8" 10'-4" 11'-0" 11'-8" 12'-6" 6'-10" 9'-0" 9'-11" 5'-3" | 6'-0" | 6'-11" | 8'-1" | 9'-8" | 11'-5" | 12'-0" | 12'-6" | 13'-3" | 14'-0" 8'-11" | 11'-8" | 12'-7" | 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" 7'-2" 8'-0" 9'-0" 10'-0" 10'-11" 12'-1" 13'-8" 14'-3" 14'-11" 15'-7" 16'-6" 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"



- . 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.
- 3. Rectangular holes are NOT allowed.
- ${\bf 4. \ \ DO\ NOT\ drill\ holes\ in\ cantilevers\ without\ prior\ approval\ from\ the\ project\ engineer/architect.}$
- For more information, contact your Pacific Woodtech distributor.
- 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.

 $Kound\ holes\ can\ be\ drilled\ anywhere\ in \ ^{-}Area\ \textbf{A}^{-}\ provided\ that:\ no\ more\ than\ four\ holes\ are\ cut,\ with\ the\ minimum\ spacing\ described\ in\ the\ diagram.\ The\ maximum\ hole\ size\ is\ 1-1/2^$ for depths up to 9-1/4", and 2" for depths greater than 9-1/4". 5. Other hole sizes and configurations MAY be possible with further engineering analysis. 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

DB1 (2 ply) Confirm location of tub plumbing, shift joist up to 3" to avoid conflict. START FRAMING HERE ├─(8) J3 x 18' @ 24"− –(9) J2 x 16' @ 24"-—(4) J1 x 14' @ 24"-FB2 (4 ply) this beam can be flush top or bottom, HD5 (2 ply) refer to roof truss drawings CONNECT 4 PLY LVL WITH 3 ROWS OF 1/2" BOLTS @ 24" O.C. STAGGERED OR 3 ROWS OF 6.75" SDW SCREWS @ 24" O.C. STAGGERED, NOT TO EXCEED 12" FROM END HD4 (2 ply) DB5 (2 ply) DB4 (2 ply)

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



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

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

After sheathing, do not overload joists with construction materials exceeding design loads.

Product Substitution Warning

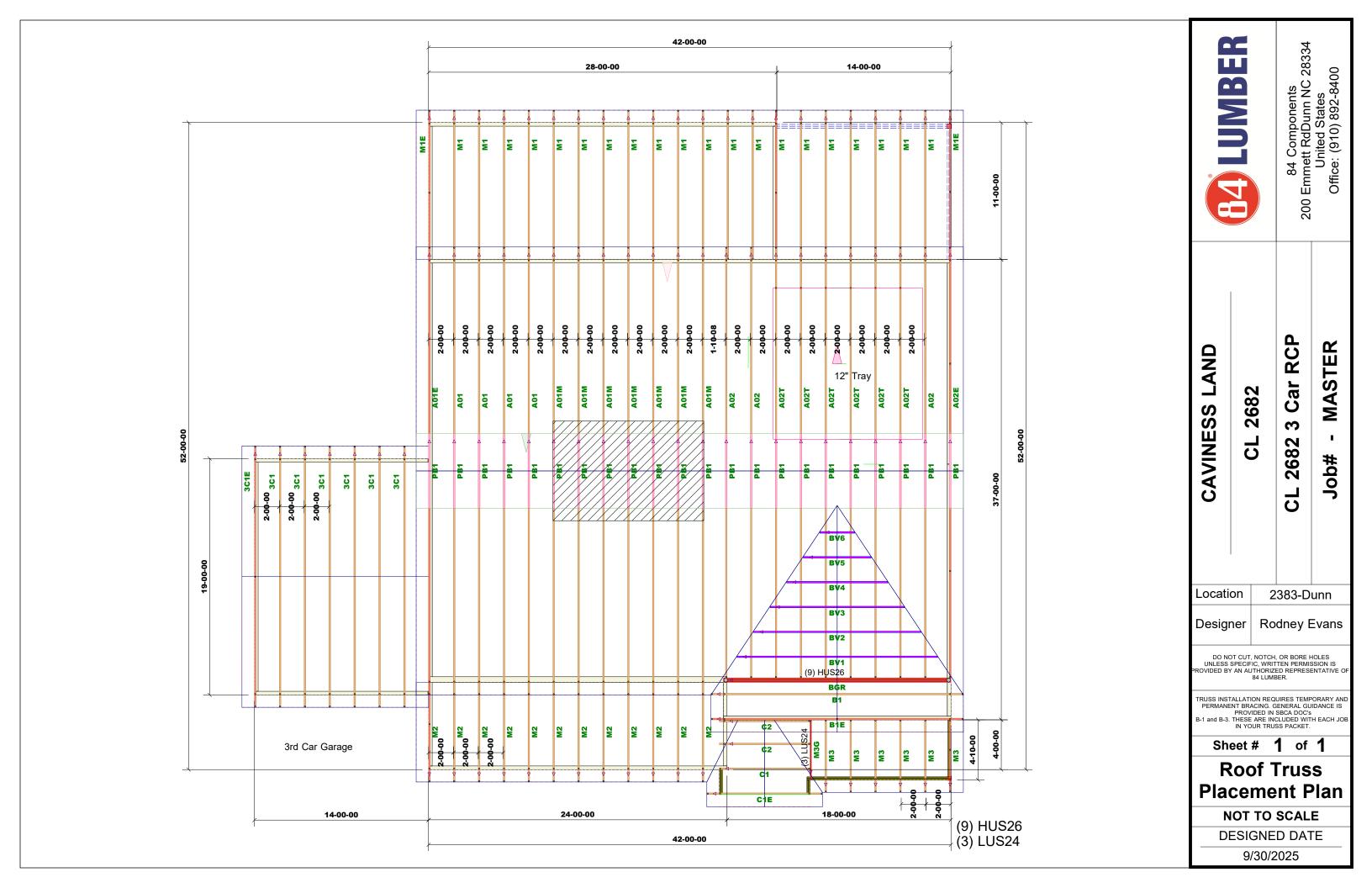
AILURE may result if this product is

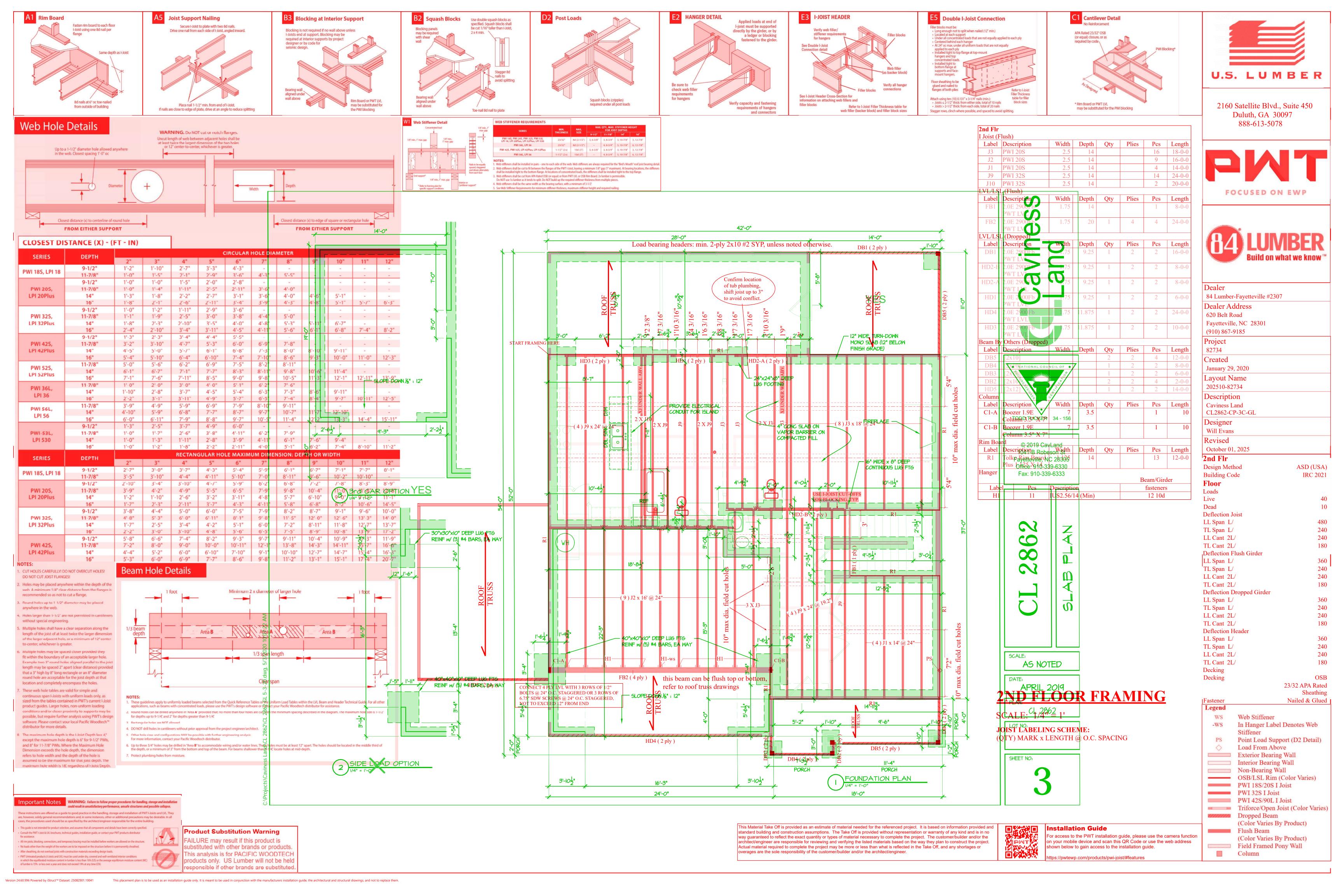
ostituted with other brands or products

This analysis is for PACIFIC WOODTECH

roducts only. US Lumber will not be held

sponsible if other brands are substitute







Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans

Job Name: 202510-82734 Project #: 82734

DB₁ 2.0E 2900Fb PWT LVL 1.750" X 9.250"

Floor

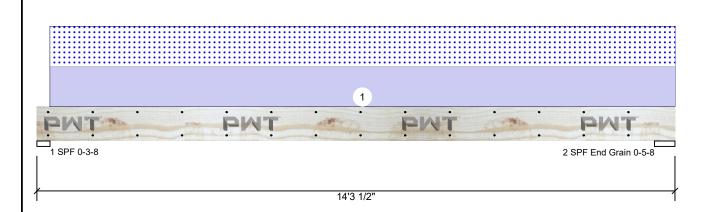
ASD

No

IRC 2021

Not Checked

Level: 2nd Flr 2-Ply - PASSED





3 1/2'

Page 1 of 2

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Inches and a second	NI I II

Member Information

Importance: Normal - II Temp <= 100°F Temperature:

General Load

Floor Live: 40 PSF 10 PSF Dead:

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	946	880	0	0
2	Vertical	0	1007	940	0	0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 946 / 880 D+S Vert 1826 L 2 - SPF 5.500" Vert 13% 1007 / 940 1947 L D+S End Grain

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6286 ft-lb	7' 3/4"	14278 ft-lb	44%	D+S	L
Shear	1616 lb	1' 3/4"	7074 lb	23%	D+S	L
LL Defl inch	0.232 (L/707)	7' 13/16"	0.456 (L/360)	51%	S	L
TL Defl inch	0.480 (L/342)	7' 13/16"	0.683 (L/240)	70%	D+S	L

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.248", Long Term = 0.372".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-3-8 to 14-3-8		Тор	130 PLF	0 PLF	130 PLF	0 PLF	0 PLF	R
	Self Weight				9 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Manufacturer Info

Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280

U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078







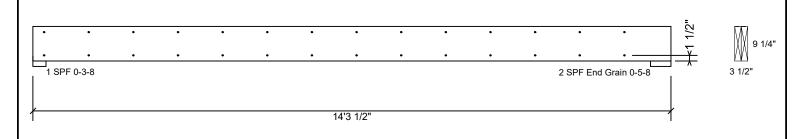
Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734

Project #: 82734

DB₁ 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	235.2 PLF	
Yield Limit per Fastener	117.6 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1 00	

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Manufacturer Info

Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280

U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078

Page 2 of 2



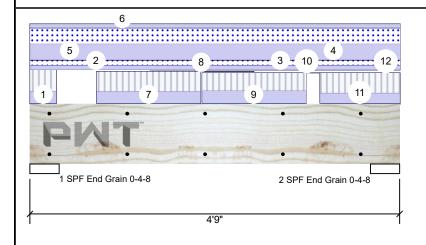


CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734 Project #: 82734

HD1 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Address:

Level: 2nd Flr





Page 1 of 3

Member Information Type: Girder Application: Floor Plies: 2 Design Method: ASD Moisture Condition: Dry **Building Code:** IRC 2021 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature:

General Load

Floor Live: 40 PSF Dead: 10 PSF

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	814	1906	1116	0	0
2	Vertical	938	1971	1116	0	0

Bearings

Bearing	Length	Dir.	Cap. I	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End	4.500"	Vert	28%	1906 / 1448	3354	L	D+0.75(L+S)
Grain							

2 - SPF 4.500" Vert 30% 1971 / 1541 3512 L D+0.75(L+S) End Grain

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb. C	ase
Moment	3168 ft-lb	2'4 7/16"	14278 ft-lb	22%	D+0.75(L+S) L	
Shear	1886 lb	1'1 3/4"	7074 lb	27%	D+0.75(L+S) L	
LL Defl inch	0.014 (L/3550)	2'4 7/16"	0.138 (L/360)	10%	0.75(L+S) L	
TL Defl inch	0.032 (L/1537)	2'4 7/16"	0.206 (L/240)	16%	D+0.75(L+S) L	

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.018", Long Term = 0.027"
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

0 2000111	inade be laterally bracea a	t ona boaringo.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 0-4-2		Тор	287 PLF	480 PLF	0 PLF	0 PLF	0 PLF	J9
2	Tapered Start	0-0-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	1-6-5			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 4-9-0		Тор	110 PLF	0 PLF	110 PLF	0 PLF	0 PLF	R
4	Part. Uniform	0-0-0 to 4-9-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
5	Part. Uniform	0-0-0 to 4-9-0		Тор	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	R
Continued on page 2										

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Project: CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025
Input by: Will Evans

Job Name: 202510-82734
Project #: 82734

Level: 2nd Flr

HD1 2.0E 2900Fb PWT LVL

Self Weight

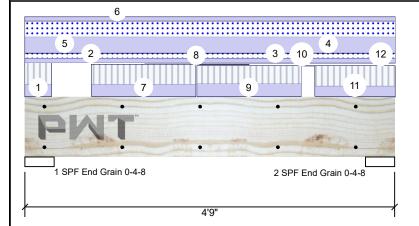
1.750" X 9.250"

2-Ply - PASSED

0.1/4"

Page 2 of 3

3 1/2



C	ontinued fro	m page 1									
10	D	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	i	Part. Uniform	0-0-0 to 4-9-0		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	•	Part. Uniform	0-10-5 to 2-2-5		Тор	282 PLF	445 PLF	0 PLF	0 PLF	0 PLF	J9
8	}	Tapered Start	1-6-5		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
		End	2-10-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
9)	Part. Uniform	2-2-8 to 3-6-8		Тор	295 PLF	399 PLF	0 PLF	0 PLF	0 PLF	J9
1	0	Tapered Start	2-10-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
		End	4-4-11			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
1	1	Part. Uniform	3-8-11 to 4-9-0		Тор	247 PLF	447 PLF	0 PLF	0 PLF	0 PLF	J9
1	2	Tapered Start	4-4-11		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
		End	4-9-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	

9 PLF

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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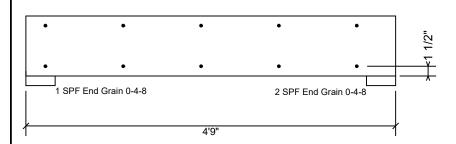
CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734 Project #: 82734

Level: 2nd Flr

HD1 2.0E 2900Fb PWT LVL 1.750" X 9.250"

2-Ply - PASSED

Page 3 of 3



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %			
Load	0.0 PLF			
Yield Limit per Foot	235.2 PLF			
Yield Limit per Fastener	117.6 lb.			
См	1			
Yield Mode	IV			
Edge Distance	1 1/2"			
Min. End Distance	3"			
Load Combination				
Duration Factor	1.00			

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Manufacturer Info

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078





CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734 Project #: 82734

HD2-A 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Application:

Design Method:

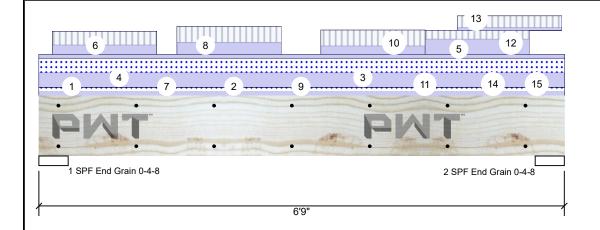
Building Code:

Load Sharing:

Deck:

Address:

Level: 2nd Flr



Floor

ASD

No

IRC 2021

Not Checked



Page 1 of 3

Member Information Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240

Importance: Normal - II
Temperature: Temp <= 100°F

General Load

Floor Live: 40 PSF Dead: 10 PSF

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1015	2730	1586	0	0
2	Vertical	1194	2894	1586	0	0

Bearings

Grain

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	40%	2730 / 1951	4681	L	D+0.75(L+S)
2 - SPF End	4.500"	Vert	42%	2894 / 2085	4979	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb. Case	•
Moment	6586 ft-lb	3'4 7/8"	14278 ft-lb	46%	D+0.75(L+S) L	
Shear	3191 lb	5'7 1/4"	7074 lb	45%	D+0.75(L+S) L	
LL Defl inch	0.050 (L/1458)	3'4 11/16"	0.204 (L/360)	25%	0.75(L+S) L	
TL Defl inch	0.121 (L/609)	3'4 5/8"	0.306 (L/240)	39%	D+0.75(L+S) L	

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.070", Long Term = 0.106".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings

O DOMONIN	naot bo latorally bracea a	t ona boaringo.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tapered Start	0-0-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	0-10-2			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 6-9-0		Тор	110 PLF	0 PLF	110 PLF	0 PLF	0 PLF	R
3	Part. Uniform	0-0-0 to 6-9-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
4	Part. Uniform	0-0-0 to 6-9-0		Тор	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	R
5	Part. Uniform	0-0-0 to 6-9-0		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
Continued on	page 2									

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Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans

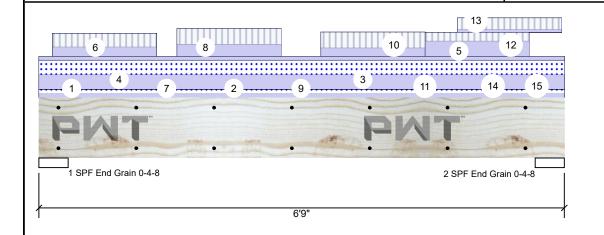
Job Name: 202510-82734 Project #: 82734

HD2-A 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Page 2 of 3

Continued	from page 1									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Part. Uniform	0-2-2 to 1-6-2		Тор	252 PLF	340 PLF	0 PLF	0 PLF	0 PLF	J3
7	Tapered Start	0-10-2		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	2-5-5			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Part. Uniform	1-9-5 to 3-1-5		Тор	320 PLF	400 PLF	0 PLF	0 PLF	0 PLF	J3
9	Tapered Start	2-5-5		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-3-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
10	Part. Uniform	3-7-8 to 4-11-8		Тор	233 PLF	395 PLF	0 PLF	0 PLF	0 PLF	J3
11	Tapered Start	4-3-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	5-7-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
12	Part. Uniform	4-11-8 to 6-3-8		Тор	400 PLF	217 PLF	0 PLF	0 PLF	0 PLF	J3
13	Part. Uniform	5-4-8 to 6-8-8		Тор	75 PLF	300 PLF	0 PLF	0 PLF	0 PLF	J3
14	Tapered Start	5-7-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-0-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
15	Tapered Start	6-0-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-9-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

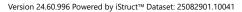
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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078









Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-827

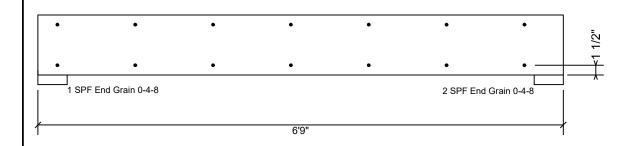
Job Name: 202510-82734
Project #: 82734

HD2-A 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Page 3 of 3

Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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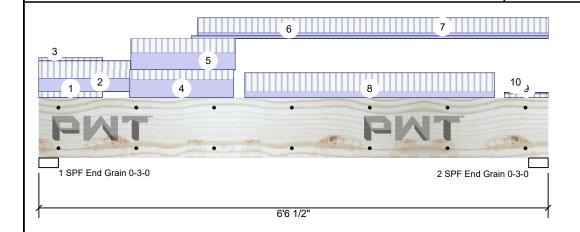
Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734 Project #: 82734

2.0E 2900Fb PWT LVL HD2-B

2-Ply - PASSED 1.750" X 9.250"

Level: 2nd Flr



Floor

ASD

No

IRC 2021

Not Checked

Application:

Design Method:

Building Code:

Load Sharing:

Deck:



Page 1 of 3

Member Information

Type: Girder Plies: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II

Temperature: Temp <= 100°F

General Load

Analysis Results

Floor Live: 40 PSF 10 PSF Dead:

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1985 (-53)	1472	0	0	0
2	Vertical	2109 (-18)	1048	0	0	0

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5246 ft-lb	3'1 9/16"	12416 ft-lb	42%	D+L	L
Shear	2659 lb	1' 1/4"	6151 lb	43%	D+L	L
LL Defl inch	0.060 (L/1241)	3'3 5/8"	0.206 (L/360)	29%	L	L
TL Defl inch	0.096 (L/767)	3'2 11/16"	0.308 (L/240)	31%	D+L	L

Bearings

Bearing Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.000" End Grain	Vert	44%	1472 / 1985	3457	L	D+L
2 - SPF 3.000" End Grain	Vert	40%	1048 / 2109	3157	L	D+L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.037", Long Term = 0.055".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

•		··· -··· · · · · · · · · · · · · ·									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Part. Uniform	0-0-0 to 0-9-12		Тор	-13 PLF	129 PLF	0 PLF	0 PLF	0 PLF	J3	
2	Part. Uniform	0-0-0 to 1-2-0		Тор	289 PLF	393 PLF	0 PLF	0 PLF	0 PLF	J3	
3	Part. Uniform	0-0-0 to 0-9-12		Тор	0 PLF	-68 PLF	0 PLF	0 PLF	0 PLF	J3	
4	Part. Uniform	1-2-0 to 2-6-0		Тор	402 PLF	216 PLF	0 PLF	0 PLF	0 PLF	J3	
5	Part. Uniform	1-2-3 to 2-6-3		Тор	391 PLF	313 PLF	0 PLF	0 PLF	0 PLF	J9	
6	Part. Uniform	1-11-8 to 6-6-8		Тор	52 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	

Continued on page 2...

Notes

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078





Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734

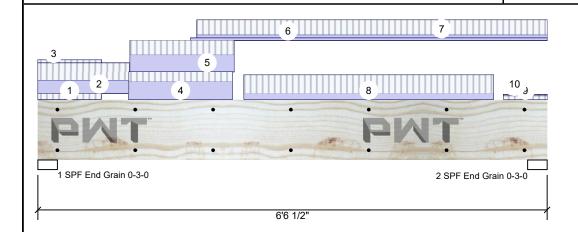
Job Name: 202510-827 Project #: 82734

HD2-B 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Page 2 of 3

.Continued	from	page	1	
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ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
7	Part. Uniform	2-0-8 to 6-6-8		Тор	82 PLF	330 PLF	0 PLF	0 PLF	0 PLF	J3
8	Part. Uniform	2-7-13 to 5-10-3		Тор	145 PLF	405 PLF	0 PLF	0 PLF	0 PLF	J9
9	Part. Uniform	5-11-13 to 6-6-8		Тор	8 PLF	80 PLF	0 PLF	0 PLF	0 PLF	J9
10	Part. Uniform	5-11-13 to 6-6-8		Тор	0 PLF	-29 PLF	0 PLF	0 PLF	0 PLF	J9
	Self Weight				9 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Project: CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734

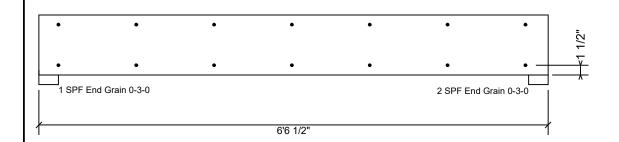
Job Name: 202510-82 Project #: 82734

HD2-B 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Page 3 of 3

Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
CM	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1 00

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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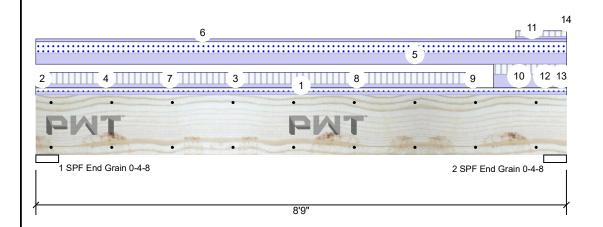
CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734

Project #: 82734

2.0E 2900Fb PWT LVL HD3

1.750" X 11.875"

Level: 2nd Flr 2-Ply - PASSED



Floor

ASD

No

IRC 2021

Not Checked

Application:

Design Method:

Building Code:

Load Sharing:

Deck:



Page 1 of 3

Member Information

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II Temperature:

Temp <= 100°F General Load

40 PSF Floor Live: 10 PSF Dead:

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1604	3156	2056	0	0
2	Vertical	1607	3547	2056	0	0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 4.500" 3156 / 2745 D+0.75(L+S) Vert 5901 L End

Grain

Grain

2 - SPF 4.500" 3547 / 2747 6295 L D+0.75(L+S) Vert End

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb. Ca	se
Moment	11130 ft-lb	4'4 1/2"	22888 ft-lb	49%	D+0.75(L+S) L	
Shear	4061 lb	1'4 3/8"	9081 lb	45%	D+0.75(L+S) L	
LL Defl inch	0.077 (L/1268)	4'4 3/8"	0.271 (L/360)	28%	0.75(L+S) L	
TL Defl inch	0.166 (L/586)	4'4 9/16"	0.406 (L/240)	41%	D+0.75(L+S) L	

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.089", Long Term = 0.134".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.

6 lop lo	ads must be supported equally	y by all plies.							
7 Top m	ust be laterally braced at end	bearings.							
8 Bottor	m must be laterally braced at e	nd bearings.							
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 8-9-0		Тор	110 PLF	0 PLF	110 PLF	0 PLF	0 PLF	R
2	Tapered Start	0-0-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	0-2-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 8-9-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
4	Part. Uniform	0-0-0 to 7-2-8		Тор	136 PLF	369 PLF	0 PLF	0 PLF	0 PLF	J9
5	Part. Uniform	0-0-0 to 8-9-0		Тор	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	R

Continued on page 2...

Notes

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Manufacturer Info

Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280

U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078







Client: 84 Lumber-Fayetteville #2307

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans

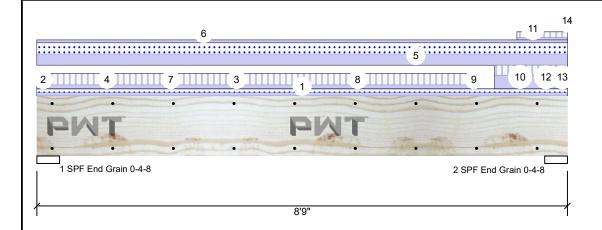
Job Name: 202510-82734 Project #: 82734

HD3 2.0E 2900Fb PWT LVL 1.750" X 11.875" 2-Ply - PASSED

Project:

Address:

Level: 2nd Flr





Page 2 of 3

Continued	from page 1									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Part. Uniform	0-0-0 to 8-9-0		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Tapered Start	0-2-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-2-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Tapered Start	4-2-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-2-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
9	Tapered Start	6-2-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	8-2-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
10	Part. Uniform	7-6-8 to 8-9-0		Тор	453 PLF	331 PLF	0 PLF	0 PLF	0 PLF	J10
11	Part. Uniform	7-11-0 to 8-9-0		Тор	89 PLF	167 PLF	0 PLF	0 PLF	0 PLF	J10
12	Tapered Start	8-2-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	8-7-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
13	Tapered Start	8-7-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	8-9-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
14	Part. Uniform	8-8-14 to 8-9-0		Тор	202 PLF	338 PLF	0 PLF	0 PLF	0 PLF	J9
	Self Weight				12 PLF					

Notes

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Client: 84 L Project: CL2

84 Lumber-Fayetteville #2307 CL2862-CP-3C-GL

CL2862-CP-3C-GL

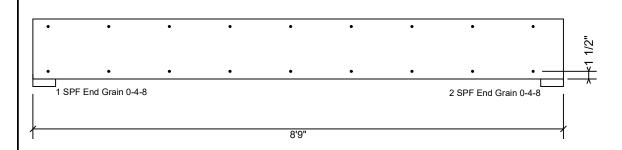
Date: 10/1/2025 Input by: Will Evans

Input by: Will Evans
Job Name: 202510-82734
Project #: 82734

HD3 2.0E 2900Fb PWT LVL 1.750" X 11.875" 2-Ply - PASSED

Address:

Level: 2nd Flr





Page 3 of 3

Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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Client: 84 Lumber-Fayetteville #2307

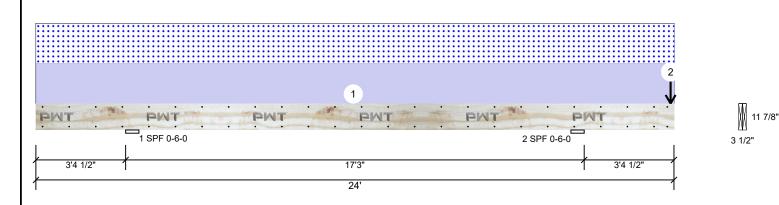
Project: CL2862-CP-3C-GL
Address: CL2862-CP-3C-GL

Date: 10/1/2025 Input by: Will Evans

Job Name: 202510-82734 Project #: 82734

HD4 2.0E 2900Fb PWT LVL 1.750" X 11.875" 2-Ply - PASSED

Level: 2nd Flr



Member Infor	mation			Rea	ctions PAT	ΓERNED	lb (U	lplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live		Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	0		1220	1095	0	0
Moisture Condition	n: Dry	Building Code:	IRC 2021	2	Vertical	0		1239	1095	0	0
Deflection LL:	360	Load Sharing:	No								
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal - II										
Temperature:	Temp <= 100°F										
General Load				Bea	rings						
Floor Live:	40 PSF			Bea	aring Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
Dead:	10 PSF			1 -	SPF 6.000"	Vert	26%	1220 / 1095	2315	LL_	D+S
				2 -	SPF 6.000"	Vert	26%	1239 / 1095	2335	LL	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-1138 ft-lb	20'7 1/2"	22888 ft-lb	5%	D+S	_LLL
Pos Moment	5870 ft-lb	11'11 13/16"	22888 ft-lb	26%	D+S	_L_
Shear	1387 lb	19'1 5/8"	9081 lb	15%	D+S	_LLL
LL Defl inch	0.156 (L/1288)	12' 1/16"	0.558 (L/360)	28%	S	_L_
TL Defl inch	0.313 (L/642)	11'11 15/16"	0.838 (L/240)	37%	D+S	_L_
LL Cant	-0.090 (2L/896)	Lt Cant	0.338 (2L/240)	27%	S	_L_
TL Cant	-0.175 (2L/462)	Lt Cant	0.450 (2L/180)	39%	D+S	_L_

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Dead Load Deflection: Instant = 0.157", Long Term = 0.236".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Page 1 of 3





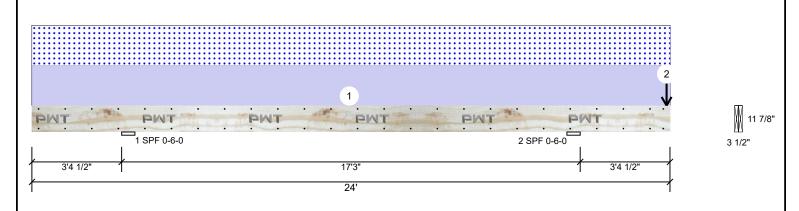
CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans

Job Name: 202510-82734 Project #: 82734

HD4 2.0E 2900Fb PWT LVL 1.750" X 11.875" 2-Ply - PASSED

Address:

Level: 2nd Flr



ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 24-0-0		Тор	90 PLF	0 PLF	90 PLF	0 PLF	0 PLF	R
2	Point	23-10-8		Near Face	14 lb	0 lb	0 lb	0 lb	0 lb	DB2
	Self Weight				12 PLF					

Notes

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Page 2 of 3





Client: 84 Project: CL

Address:

84 Lumber-Fayetteville #2307 CL2862-CP-3C-GL

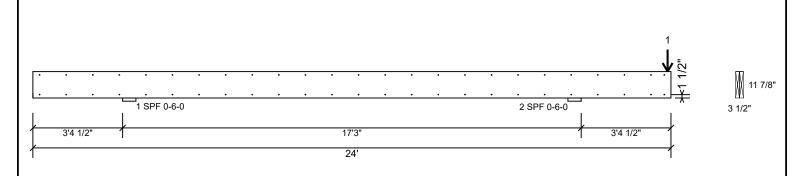
CL2862-CP-3C-GL

Date: 10/1/2025 Input by: Will Evans

Job Name: 202510-82734
Project #: 82734

HD4 2.0E 2900Fb PWT LVL 1.750" X 11.875" 2-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	235.2 PLF	
Yield Limit per Fastener	117.6 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1 00	

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Page 3 of 3



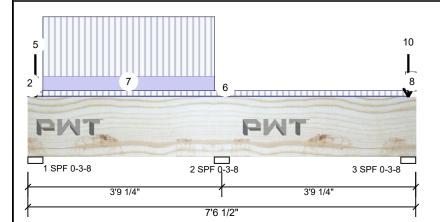


Project: CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025
Input by: Will Evans
Ioh Name: 202510-82

Job Name: 202510-82734 Project #: 82734

FB1 2.0E 2900Fb PWT LVL 1.750" X 14.000" - PASSED

Level: 2nd Flr





Page 1 of 2

Member Information Type: Girder Plies: 1 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II Temperature: Temp <= 100°F

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: No
Deck: Not Checked

Reactions PATTERNED Ib (Uplift) Brg Direction Live Snow Wind Const Vertical 229 116 0 0 0 1 295 103 0 0 2 Vertical 0 41 0 0 0 3 Vertical 24 (-13)

General Load Floor Live: 40 PSF Dead: 10 PSF

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-159 ft-lb	3'9 1/4"	13396 ft-lb	1%	D+L	LL
Pos Moment	218 ft-lb	1'9 3/16"	13396 ft-lb	2%	D+L	L_
Shear	130 lb	2'5 1/2"	4655 lb	3%	D+L	LL
LL Defl inch	0.002 (L/27459)	1'11 11/16"	0.118 (L/360)	1%	L	L_
TL Defl inch	0.002 (L/21218)	1'11 11/16"	0.177 (L/240)	1%	D+L	L_

Bearings

Bearing	Length	Dir.	Cap. Re	act D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	13%	112 / 219	330	L_	D+L
2 - SPF	3.500"	Vert	16%	111 / 318	429	LL	D+L
3 - SPF	3.500"	Vert	2%	37 / 23	60	_L	D+L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Dead Load Deflection: Instant = 0.000", Long Term = 0.001".
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top must be laterally braced at end bearings.
- 5 Rottom must be laterally braced at end bearings

5 Bottom must be laterally braced at end bearings.										
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 0-3-6	0-3-1	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-2-6	0-10-3	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
3	Point	0-1-12		Тор	3 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
4	Point	0-1-12		Тор	20 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
5	Point	0-1-12		Тор	23 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
Continued on page 2										

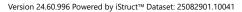
Notes

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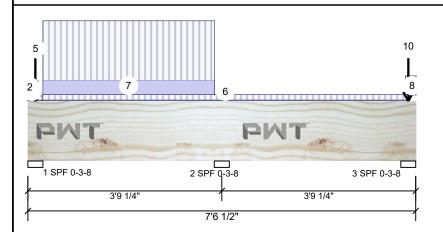
Project: CL2862-CP-3C-GL
Address: CL2862-CP-3C-GL

Date: 10/1/2025
Input by: Will Evans
Inh Name: 202510-82

Job Name: 202510-82734
Project #: 82734

FB1 2.0E 2900Fb PWT LVL 1.750" X 14.000" - PASSED

Level: 2nd Flr





Page 2 of 2

Continued from	naga 1									
Continued from										_
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	Bearing Length	0-3-8								
6	Tie-In	0-3-6 to 7-4-12	0-3-1	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
7	Part. Uniform	0-3-8 to 3-7-8		Тор	33 PLF	132 PLF	0 PLF	0 PLF	0 PLF	S
8	Tie-In	7-4-2 to 7-6-8	0-10-3	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
9	Point	7-4-12		Тор	8 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
10	Point	7-4-12		Тор	20 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
	Self Weight				7 PLF					

Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Client: 8 Project: 0

Address:

84 Lumber-Fayetteville #2307 CL2862-CP-3C-GL

CL2862-CP-3C-GL

Date: 10/1/2025 Input by: Will Evans

> Job Name: 202510-82734 Project #: 82734

Reactions PATTERNED Ib (Uplift)

3246 (0)

2983 (-4)

Dir.

Vert

Vert

Brg

1

2

Bearings

End Grain

End Grain

Direction

Vertical

Vertical

Bearing Length

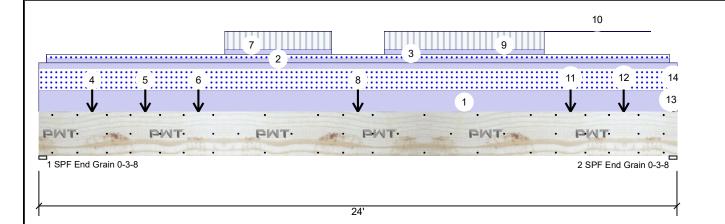
1 - SPF 3.500'

2 - SPF 3.500"

FB2 2.0E 2900Fb PWT LVL 1.

1.750" X 20.000"

4-Ply - PASSED Level: 2nd Flr



Member Information Type: Girder Application: Floor Plies: 4 Design Method: ASD Moisture Condition: Dry **Building Code:** IRC 2021 Deflection LL: 360 Load Sharing: Yes Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: General Load Floor Live: 40 PSF 10 PSF Dead:

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb. (Case
Moment	85019 ft-lb	12'	121783 ft-lb	70%	D+0.75(L+S) I	_
Shear	12469 lb	1'11 1/2"	30590 lb	41%	D+0.75(L+S) I	_
LL Defl inch	0.432 (L/654)	12' 1/16"	0.785 (L/360)	55%	0.75(L+S) l	_
TL Defl inch	0.972 (L/291)	12' 1/16"	1.178 (L/240)	83%	D+0.75(L+S) I	_

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.540", Long Term = 0.810".
- 3 Fasten all plies using 3 rows of SDW22634 at 24" o.c. Maximum end distance not to exceed 12".
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 6 Simpson fasteners applied from a single side of the member use tip values where published.
- 7 Girders are designed to be supported on the bottom edge only.
- 8 Top loads must be supported equally by all plies.
- 9 Top must be laterally braced at a maximum of 4'1 1/8" o.c.
- 10 Bottom must be laterally braced at end bearings.

Bottom mact be laterally braces	a at ona boaringo.								
Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
Part. Uniform	0-0-0 to 23-8-8		Тор	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	R
Part. Uniform	0-0-0 to 24-0-0		Тор	94 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
Part. Uniform	0-3-8 to 23-8-8		Тор	70 PLF	0 PLF	70 PLF	0 PLF	0 PLF	R
Point	2-0-0		Far Face	166 lb	592 lb	0 lb	0 lb	0 lb	J2
	Load Type Part. Uniform Part. Uniform Part. Uniform	D Load Type Location Part. Uniform 0-0-0 to 23-8-8 Part. Uniform 0-0-0 to 24-0-0 Part. Uniform 0-3-8 to 23-8-8	Description Load Type Location Trib Width Part. Uniform 0-0-0 to 23-8-8 Part. Uniform 0-0-0 to 24-0-0 Part. Uniform 0-3-8 to 23-8-8	Description Load Type Location Trib Width Side Part. Uniform 0-0-0 to 23-8-8 Top Part. Uniform 0-0-0 to 24-0-0 Top Part. Uniform 0-3-8 to 23-8-8 Top	Dead Type Location Trib Width Side Dead 0.9 Part. Uniform 0-0-0 to 23-8-8 Top 360 PLF Part. Uniform 0-0-0 to 24-0-0 Top 94 PLF Part. Uniform 0-3-8 to 23-8-8 Top 70 PLF	Dead Type Location Trib Width Side Dead 0.9 Live 1 Part. Uniform 0-0-0 to 23-8-8 Top 360 PLF 0 PLF Part. Uniform 0-0-0 to 24-0-0 Top 94 PLF 0 PLF Part. Uniform 0-3-8 to 23-8-8 Top 70 PLF 0 PLF	Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Part. Uniform 0-0-0 to 23-8-8 Top 360 PLF 0 PLF 360 PLF Part. Uniform 0-0-0 to 24-0-0 Top 94 PLF 0 PLF 0 PLF Part. Uniform 0-3-8 to 23-8-8 Top 70 PLF 0 PLF 70 PLF	Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Part. Uniform 0-0-0 to 23-8-8 Top 360 PLF 0 PLF 360 PLF 0 PLF Part. Uniform 0-0-0 to 24-0-0 Top 94 PLF 0 PLF 0 PLF 0 PLF Part. Uniform 0-3-8 to 23-8-8 Top 70 PLF 0 PLF 70 PLF 0 PLF	Dead Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Part. Uniform 0-0-0 to 23-8-8 Top 360 PLF 0 PLF 360 PLF 0

This design is valid until 9/3/2027

Continued on page 2...

Notes
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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA

Page 1 of 6

Wind

Total Ld. Case

14169 I

14802 L

0

O

Snow

5140

5811

7880

8206

Cap. React D/L lb

7880 / 6290

8206 / 6595

Const

Ld. Comb.

D+0.75(L+S)

D+0.75(L+S)

0

0

CSD DRAW DESIGN

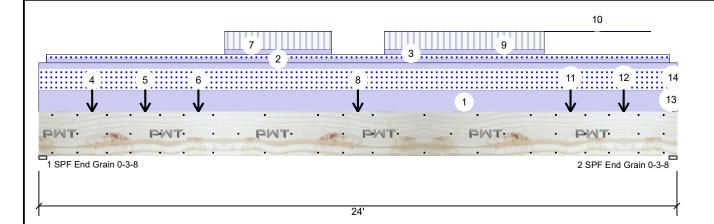
U.S.A



CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734

Project #: 82734

2.0E 2900Fb PWT LVL 1.750" X 20.000" FB₂ 4-Ply - PASSED Level: 2nd Flr



	1'8"
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Page 2 of 6

Continued from	page 1									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
5	Point	4-0-0		Far Face	167 lb	599 lb	0 lb	0 lb	0 lb	J2
6	Point	6-0-0		Far Face	181 lb	599 lb	0 lb	0 lb	0 lb	J2
7	Part. Uniform	7-0-0 to 11-0-0		Far Face	84 PLF	300 PLF	0 PLF	0 PLF	0 PLF	
8	Point	12-0-0		Far Face	600 lb	599 lb	0 lb	0 lb	0 lb	J2
9	Part. Uniform	13-0-0 to 19-0-0		Far Face	84 PLF	300 PLF	0 PLF	0 PLF	0 PLF	
10	Part. Uniform	19-0-0 to 23-0-0		Far Face	0 PLF	-1 PLF	0 PLF	0 PLF	0 PLF	
11	Point	20-0-0		Far Face	102 lb	417 lb	0 lb	0 lb	0 lb	J3
12	Point	22-0-0		Far Face	99 lb	406 lb	0 lb	0 lb	0 lb	J3
13	Tie-In	23-8-8 to 24-0-0	1-6-0	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
14	Point	23-10-4		Тор	535 lb	0 lb	776 lb	0 lb	0 lb	
	Bearing Length	0-3-8								

40 PLF

Notes

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Self Weight

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Manufacturer Info

Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280

U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078







Client: 84 Lumber-Fayetteville #2307

Project: CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734

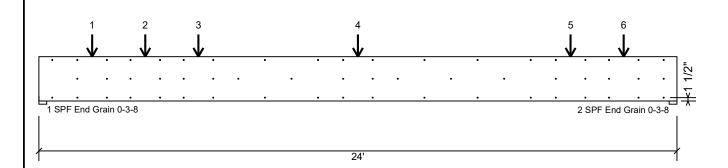
Project #: 82734

FB2 2.0E 2900Fb PWT LVL

1.750" X 20.000"

4-Ply - PASSED

Level: 2nd Flr





Page 3 of 6

Multi-Ply Analysis

Fasten all plies using 3 rows of SDW22634 at 24" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 12".

	· - ·
Capacity	64.0 %
Load	288.0 PLF
Yield Limit per Foot	450.0 PLF
Yield Limit per Fastener	300.0 lb.
См	1
Yield Mode	Lookup
Edge Distance	1 1/2"
Min. End Distance	6"
Load Combination	D+L
Duration Factor	1.00

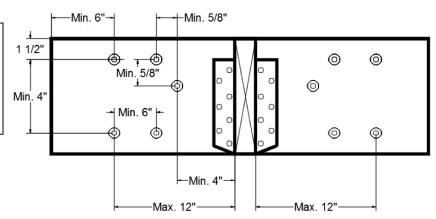
Concentrated Load

side of the applied load

Fasten at concentrated side load at 2-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the

side of the applica load	u.	
Capacity	23.7 %	
Load	568.5lb.	
Total Yield Limit	2400.0 lb.	
Cg	1.0000	
CM	1	
Yield Limit per Fastener	400.0 lb.	
Yield Mode	Lookup	
Load Combination	D+L	
Duration Factor	1.00	

Min/Max fastener distances for Concentrated Side Loads



Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280 U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078







CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by:

Will Evans Job Name: 202510-82734 Project #: 82734

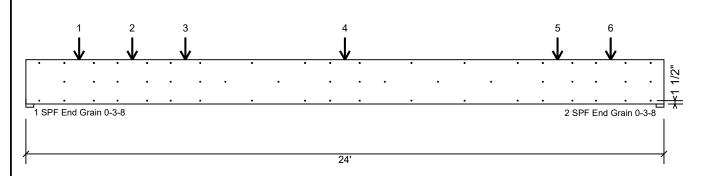
2.0E 2900Fb PWT LVL

1.750" X 20.000"

Address:

4-Ply - PASSED

Level: 2nd Flr





Page 4 of 6

Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 4-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

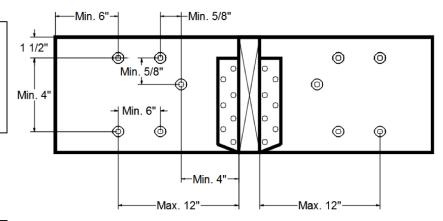
Capacity	23.9 %	
Load	574.5lb.	
Total Yield Limit	2400.0 lb.	
Cg	1.0000	
CM	1	
Yield Limit per Fastener	400.0 lb.	
Yield Mode	Lookup	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 6-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

Capacity	24.4 %
Load	585.0lb.
Total Yield Limit	2400.0 lb.
Cg	1.0000
См	1
Yield Limit per Fastener	400.0 lb.
Yield Mode	Lookup
Load Combination	D+L
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads



Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Manufacturer Info

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078







Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans

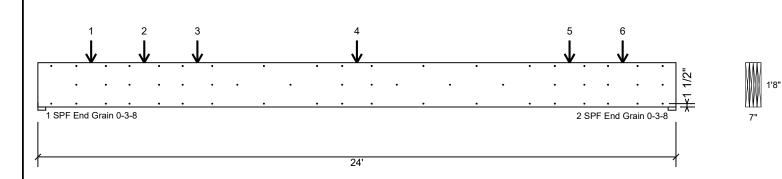
Job Name: 202510-82734 Project #: 82734

FB2 2.0E 2900Fb PWT LVL

1.750" X 20.000"

4-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 12-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

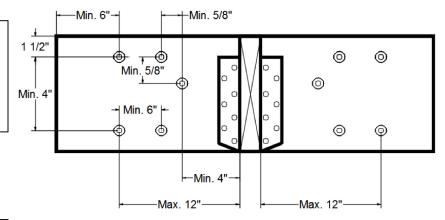
side of the applied load.	
Capacity	37.5 %
Load	899.3lb.
Total Yield Limit	2400.0 lb.
Cg	1.0000
CM	1
Yield Limit per Fastener	400.0 lb.
Yield Mode	Lookup
Load Combination	D+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 20-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

Capacity	16.2 %
Load	389.3lb.
Total Yield Limit	2400.0 lb.
Cg	1.0000
См	1
Yield Limit per Fastener	400.0 lb.
Yield Mode	Lookup
Load Combination	D+L
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads



Notes

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Client: 84 Lur Project: CL286

Address:

84 Lumber-Fayetteville #2307 CL2862-CP-3C-GL

CL2862-CP-3C-GL

Date: 10/1/2025 Input by: Will Evans

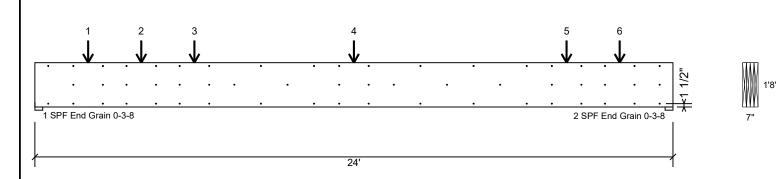
Job Name: 202510-82734 Project #: 82734

FB2 2.0E 2900Fb PWT LVL

1.750" X 20.000"

4-Ply - PASSED

Level: 2nd Flr



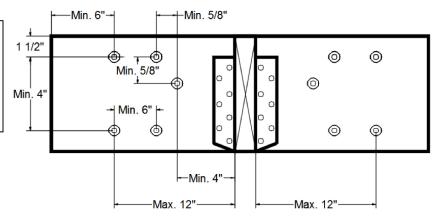
Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 22-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

piac of the applications	•	
Capacity	15.8 %	
Load	378.8lb.	
Total Yield Limit	2400.0 lb.	
Cg	1.0000	
Cg Cm	1	
Yield Limit per Fastener	400.0 lb.	
Yield Mode	Lookup	
Load Combination	D+L	
Duration Factor	1.00	

Min/Max fastener distances for Concentrated Side Loads



Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Page 6 of 6







Client:

Project: Address:

CL2862-CP-3C-GL

84 Lumber-Fayetteville #2307

Date: Input by:

Job Name: 202510-82734

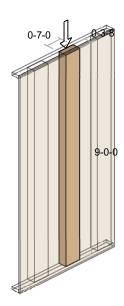
Project #: 82734

C1-A **Boozer 1.9E Column**

3.500" X 7.000" - PASSED

Level: 2nd Flr

10/1/2025



Design Method: ASD Building Code: IRC 2021 Importance: Normal - II Application: Stud In Wall Load Sharing: Yes Spacing: 1-4-0

Unbraced Length: Continuous Orientation: Plank **Building Type:** Enclosed Zone 4 Mean Roof Height: 30-0-0 Wind Speed mph: 115 Exposure

Category: Topographical Escarpment

Feature: Feature Height: Feature Length: Horizontal Offset: 0

Direction: Downwind Topographical

Factor Kzt:

Risk Occupancy Category II LL Deflection Limit: L/360

Design OK. Design Notes

1. Axial load eccentricity of 1/6 dimension applied only to the direction perpendicular to the wall.

Page 1 of 1

- 2. Designed in accordance with NDS 2018, ASCE7 and
- 3. Top and bottom ends of the member must be supported to prevent lateral movement and rotation.
- 4. Member must be continuously laterally braced in the wall plane direction.
- 5. Holes and notches are not allowed in member.
- 6. Effective length factor 0.85 for slenderness and strength calculations.
- 7. Design wind load based on leeward pressure 34 PSF. Windward pressure is 32 PSF.

Analysis

Design Properties

	Actual	Allowed	Capacity	Load Combination	E:	1900000	Fc:	2300	
Slenderness	30.9	50.0	62%		Ey:	1900000	Fv:	0	
Axial (lb.)	14169	27289	52%	D+0.75(L+S)	Fb:	2100	Fvy:	0	
Axial + Bending	0.74	1	74%	D+0.75(L+S)	Fby:	2300			
Bearing Steel (lb.)	14229	49000	29%	D+0.75(0.6W+L+S)					
LL Deflection	0.178 (in.) L/605	0.300 (in.) L/360	59%	0.75((0.7)(0.6)W+L					
				+S)					
Lateral Reaction Top 122			D+0.6W						
Lateral Reaction Bo	t 122			D+0.6W					

Applied L	.oads
-----------	-------

ID	Load Type	Location	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
Axial								
1	Point	9-0-0	7880 lb	3246 lb	5140 lb	0 lb	0 lb	
2	Point	9-0-0	0 lb	0 lb	0 lb	0 lb	0 lb	
Lateral								
3	Uniform		0 PLF	0 PLF	0 PLF	45 PLF	0 PLF	

Manufacturer Info

Boozer Laminated Beam Co Anniston, AL www.boozerbeam.com

U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078







Client:

Project:

Address:

84 Lumber-Fayetteville #2307

CL2862-CP-3C-GL

Date: Input by:

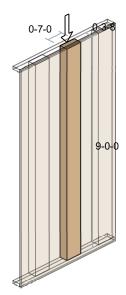
Project #:

10/1/2025

Job Name: 202510-82734

C1-B Boozer 1.9E Column

82734 Level: 2nd Flr



3.500" X 7.000" - PASSED

Design Method: ASD **Building Code:** IRC 2021 Importance: Normal - II Application: Stud In Wall

Load Sharing: Yes Spacing: 1-4-0 Unbraced Length: Continuous Orientation: Plank **Building Type:** Enclosed Zone 4 Mean Roof Height: 30-0-0 Wind Speed mph: 115 Exposure

Category: Topographical Escarpment

Feature: Feature Height: Feature Length:

Horizontal Offset: 0 Direction: Downwind Topographical

Factor Kzt: Risk Occupancy Category II

LL Deflection Limit: L/360

Design OK. Design Notes

1. Axial load eccentricity of 1/6 dimension applied only to the direction perpendicular to the wall.

Page 1 of 1

- 2. Designed in accordance with NDS 2018, ASCE7 and
- 3. Top and bottom ends of the member must be supported to prevent lateral movement and rotation.
- 4. Member must be continuously laterally braced in the wall plane direction.
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- 6. Effective length factor 0.85 for slenderness and strength calculations.
- 7. Design wind load based on leeward pressure 34 PSF. Windward pressure is 32 PSF.

Analysis

Design Properties

	Actual	Allowed	Capacity	Load Combination	E:	1900000	Fc:	2300	
Slenderness	30.9	50.0	62%		Ey:	1900000	Fv:	0	
Axial (lb.)	14802	27289	54%	D+0.75(L+S)	Fb:	2100	Fvy:	0	
Axial + Bending	0.81	1	81%	D+0.75(L+S)	Fby:	2300			
Bearing Steel (lb.)	14861	49000	30%	D+0.75(0.6W+L+S)					
LL Deflection	0.186 (in.) L/580	0.300 (in.) L/360	62%	0.75((0.7)(0.6)W+L					
				+S)					
Lateral Reaction Top 122			D+0.6W						
Lateral Reaction Bo	t 122			D+0.6W					

Wind 1.6 Const. 1.25 Comments

Applied	Loads
---------	-------

Load Type

Location

Axial								
1	Point	9-0-0	8206 lb	2983 lb	5811 lb	0 lb	0 lb	
2	Point	9-0-0	0 lb	-4 lb	0 lb	0 lb	0 lb	
Lateral								
3	Uniform		0 PLF	0 PI F	0 PI F	45 PLF	0 PLF	

Live 1 Snow 1.15

Dead 0.9

Manufacturer Info

Boozer Laminated Beam Co Anniston, AL www.boozerbeam.com

U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078





