isDesign

Client: WEAVER

Project: Address: Date: 1/25/2021

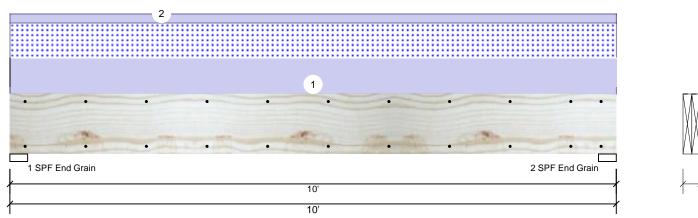
Input by: Lenny Norris Job Name: LINDSAY 3-CAR

Project #:

Kerto-S LVL GDH9'

1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information							Reactions UNPATTERNED lb (Uplift)						
Type:	Girder		Application	on: F	Floor		Brg	Live	Dea	d Snow	,	Wind	Const
Plies:	2		Design M	lethod: A	ASD		1	0	151	1 1165		0	0
Moisture Conditio	n: Dry	Dry		Building Code:		IBC/IRC 2015		0	151	1 1165		0	0
Deflection LL:	480		Load Sha	ring: N	No								
Deflection TL:	360		Deck:	1	Not Checked								
Importance:	Normal												
Temperature:	Temp <= 100	, ,					Bearing: Bearing		Cap.	React D/L lb	Total	Ld. Case	Ld. Comb
Analysis Resul	te						1 - SPF End Grain	3.500"	25%	1511 / 1165	2676	L	D+S
	etual	Location	Allowed	Capacity	Comb.	Case	2-SPF	3.500"	25%	1511 / 1165	2676	L	D+S
•	91 ft-lb	5'	22897 ft-lb	0.266 (27%		L	End Grain						
Unbraced 60	91 ft-lb	5'	9721 ft-lb	0.627 (63%	%) D+S	L							
Shear 20	24 lb	1'2 5/8"	10197 lb	0.198 (20%	%) D+S	L							
LL Defl inch 0.0	052 (L/2209)	5'	0.239 (L/480)	0 220 (22%	6) S	1							

Design Notes

1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".

5' 0.318 (L/360) 0.370 (37%) D+S

- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.

TL Defl inch 0.119 (L/962)

7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	233 PLF	0 PLF	233 PLF	0 PLF	0 PLF	G1 TRUSS
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL WEIGHT
	Self Weight				9 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be out or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 2/26/2023

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



Page 1 of 1

11 7/8'

