

Client: FREEDOM

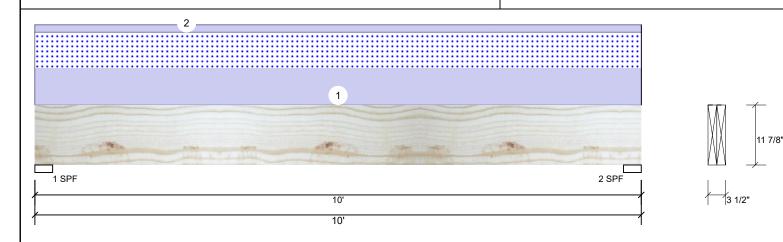
Project: Address: Date: 2/22/2023

Input by: Lenny Norris Job Name: CAMPELL

Project #:

1.750" X 11.875" 2-Ply - PASSED GDH 9'SL Kerto-S LVL

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Type: Girder Application: Floor Brg Direction Live Wind Const Dead Snow Plies: 2 Design Method: ASD Vertical 0 1781 1435 0 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** O 1781 1435 O 0 2 Vertical Deflection LL: 480 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temperature: Temp <= 100°F **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb.

1 - SPF 3.500"

2 - SPF 3.500"

Vert

Vert

62%

1781 / 1435

1781 / 1435

3216 L

3216 L

Analysis Results

ĺ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
ı	Moment	7320 ft-lb	5'	22897 ft-lb	0.320 (32%)	D+S	L
I	Unbraced	7320 ft-lb	5'	9721 ft-lb	0.753 (75%)	D+S	L
ı	Shear	2401 lb	1'3 3/8"	10197 lb	0.235 (24%)	D+S	L
ı	LL Defl inch	0.064 (L/1793)	5'	0.239 (L/480)	0.268 (27%)	S	L
١	TL Defl inch	0.143 (L/800)	5'	0.477 (L/240)	0.300 (30%)	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 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 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	287 PLF	0 PLF	287 PLF	0 PLF	0 PLF	E TRUSSES
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	DEAD WALL
	Self Weight				9 PLF					

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.

Notes

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info

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D+S

D+S

