

Client: **FREEDOM**

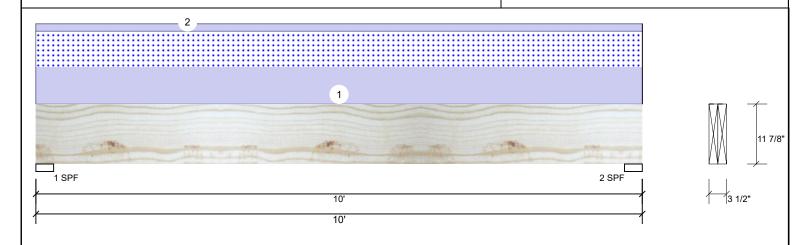
Project: Address: Date: 2/22/2023

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 Infor	mation			Read	ctions UNP	ATTERN	NED II	b (Uplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live	;	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	0)	1781	1435	0	0
Moisture Conditio	n: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0)	1781	1435	0	0
Deflection LL:	480	Load Sharing:	No								
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal - II										
Temperature:	Temp <= 100°F										
				Bear	rings						
				Bea	aring Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 -	SPF 3.500"	Vert	62%	1781 / 1435	3216	L	D+S
				2 -	SPF 3.500"	Vert	62%	1781 / 1435	3216	L	D+S

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
ı	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
ı	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.

T Eatoral donathroso ratio based on origin pry within											
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
- Handling & Installation

 1. UVI beams must not be cut 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

- For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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This design is valid until 11/3/2024