

Client: Project: Address:

Weaver Development Lindsay 1524 Lindsay 1524

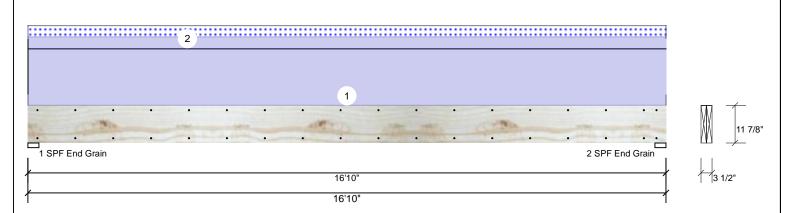
Date: 7/10/2020

Input by: Christine Shivy

Job Name: Project #:

Kerto-S LVL 2-Ply - PASSED 1.750" X 11.875" **GDH**

Level: Level



Member Information					Reactions UNPATTERNED lb (Uplift)								
Type:	Girder		Applicati	ion:	Floor		Brg	Live	Dead	d Snow		Wind	Const
Plies:	2		Design N	Method:	ASD		1	0	2098	8 337		0	0
Moisture Condition	n: Dry		Building	Code:	IBC 2012		2	0	2098	8 337		0	0
Deflection LL:	480		Load Sh	aring:	No								
Deflection TL:	360		Deck:		Not Checked								
Importance:	Normal												
Temperature:	Temp <= 100)°F											
							Bearings	S					
							Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb
							1 - SPF	3.500"	23%	2098 / 337	2434	L	D+S
							End						
nalysis Resu	ts						Grain						
Analysis A	ctual	Location	Allowed	Capacity	Comb.	Case	2 - SPF	3.500"	23%	2098 / 337	2434	L	D+S
Moment 83	54 ft-lb	8'5"	17919 ft-lb	0.466 (47	%) D	Uniform	End Grain						
Unbraced 96	94 ft-lb	8'5"	9704 ft-lb	0.999 (100%)	D+S	L							
Shear 17	'94 lb	1'2 5/8"	7980 lb	0.225 (22)	%) D	Uniform	1						

1

TL Defl inch **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".

8'5 1/16" 0.409 (L/480) 0.170 (17%) S

8'5 1/16" 0.546 (L/360) 0.930 (93%) 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.

0.506 (L/388)

- 5 Top must be laterally braced at a maximum of 9'6 3/4" o.c.
- 6 Bottom braced at bearings.

LL Defl inch 0.070 (L/2809)

7 Lateral slenderness ratio based on single ply width

/ Lateral Sieri	demess railo based on sing	gie pry widin.								
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	200 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Siding / Plywood
2	Uniform			Тор	40 PLF	0 PLF	40 PLF	0 PLF	0 PLF	2'0" Roof Load
	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

Indicating & Installation

I. VIL 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

3. Damaged Beams must not be used

1. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 2/26/2023

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

Manufacturer Info

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