

Client: Project: Address: Date: 4/4/2024

Input by: Job Name: Project #:

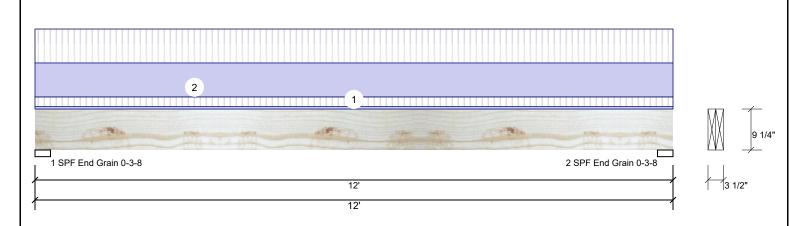
Kerto-S LVL **BM2 DROPPED**

1.750" X 9.250"

2-Ply - PASSED

Level: Level

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Member Information						Reactions UNPATTERNED lb (Uplift)							
Type:	Girder	Application:	Floor	Brg	Direc	ction	Live		Dead	Snow	Wind	Const	
Plies:	2	Design Method:	ASD	1	Vertic	cal	1080		943	0	0	0	
Moisture Condition:	: Dry	Building Code:	IBC/IRC 2015	2	Vertic	cal	1080		943	0	0	0	
Deflection LL:	480	Load Sharing:	No										
Deflection TL:	360	Deck:	Not Checked										
Importance:	Normal - II												
Temperature:	Temp <= 100°F												
				Bear	rings								
				Bea	aring l	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.	
				1 - · End	SPF 3	3.500"	Vert	20%	943 / 1080	2023	L	D+L	
Analysis Result	s			Gra	ain								
Analysis Act	ual Location A	Allowed Capac	ity Comb. Cas	se 2 -		3.500"	Vert	20%	943 / 1080	2023	L	D+L	

L

L

L

L

L

Grain

Design Notes

Moment

Shear

Unbraced

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.

6' 12542 ft-lb

6' 6498 ft-lb

6' 0.289 (L/480) 0.576 (58%) L

6' 0.385 (L/360) 0.810 (81%) D+L

10'11 1/4" 6907 lb

0.448 (45%) D+L

0.864 (86%) D+L

0.242 (24%) D+L

- 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.

5615 ft-lb

5615 ft-lb

1670 lb

LL Defl inch 0.166 (L/833)

TL Defl inch 0.312 (L/445)

- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

	Bearings											
	Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.				
	1 - SPF End Grain	3.500"	Vert	20%	943 / 1080	2023	L	D+L				
1	2 - SPF	3.500"	Vert	20%	943 / 1080	2023	L	D+L				

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		1-0-0	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Uniform			Тор	140 PLF	140 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				7 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.

- 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
- fastening details, book...
 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 6/28/2026

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

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