

SOUTHERN TOUCH Client:

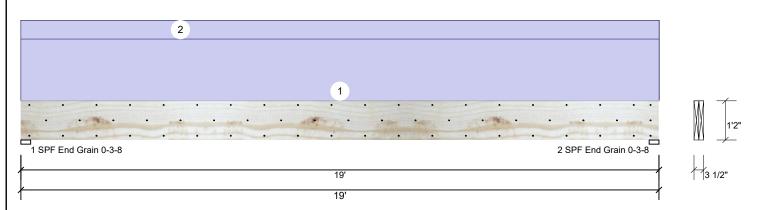
Project: Address: Date: 6/11/2024

Input by: LENNY NORRIS Job Name: WINDSOR

Project #:

1.750" X 14.000" GDH 18' FL Kerto-S LVL 2-Ply - PASSED

Level: Level



Member Information							Reactions UNPATTERNED lb (Uplift)							
Type:	Girder		Application	on: F	loor		Brg	Direction	Live	9	Dead	Snow	Wind	Cons
Plies:	2		Design M	/lethod: A	SD		1	Vertical	()	2573	0	0	C
Moisture Condition	n: Dry		Building	Code: IE	3C/IRC 2015		2	Vertical)	2573	0	0	C
Deflection LL:	480		Load Sha	aring: N	О									
Deflection TL:	360		Deck:	N	ot Checked									
Importance:	Normal - II													
Temperature:	Temp <= 10	0°F												
							Beari	ngs						
							Bear	ing Leng	gth Dir.	Сар	React D/L lb	o Total	Ld. Case	Ld. Comb.
							1 - S End	PF 3.500)" Vert	25%	2573 / 0	2573	Uniform	D
Analysis Resu	lts						Graii	n						
Analysis A	ctual	Location	Allowed	Capacity	Comb.	Case	2-S	PF 3.500	0" Vert	25%	2573 / 0	2573	Uniform	D
Moment 1	1641 ft-lb	9'6"	24299 ft-lb	0.479 (48%) D	Uniform	End Graii	n						
Unbraced 1	1641 ft-lb	9'6"	11659 ft-lb	0.999 (100%)	D	Uniform								

Uniform

Uniform

Design Notes

Shear

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.

0.233 (23%) D

0 999.000 (L/0) 0.000 (0%)

9'6 1/16" 0.618 (L/360) 0.772 (77%) D

17'6 1/2" 9408 lb

- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.

2191 lb

LL Defl inch 0.000 (L/999) TL Defl inch 0.477 (L/466)

- 6 Top must be laterally braced at a maximum of 8'11 5/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width

o Eateral sicriderness ratio based on single pry 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	200 PLF	0 PLF	0 PLF	0 PLF	0 PLF	GABLE END	
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	DEAD WALL	
	Self Weight				11 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
- L. UV. 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
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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

Manufacturer Info

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