

Client: **GAMMON**

Project: Address: Date: 9/25/2024

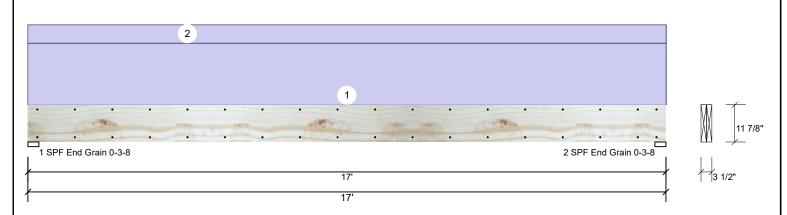
Input by: LENNY NORRIS Job Name: RIVERSTONE

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Project #:

Kerto-S LVL 1.750" X 11.875" **GDH 16' FL** 2-Ply - PASSED

Level: Level



Member Information							Reactions UNPATTERNED lb (Uplift)								
Type:	Girder		Applicat	ion: Fl	loor		Brg	Dire	ection	Live		Dead	Snow	Wind	Const
Plies:	2		Design	Method: A	SD		1	Verti	ical	0		2289	0	0	0
Moisture Conditio	n: Dry		Building	Code: IF	RC 2018		2	Verti	ical	0		2289	0	0	0
Deflection LL:	480		Load Sh	naring: N	0										
Deflection TL:	360		Deck:	N	ot Checked										
Importance:	Normal - II														
Temperature:	Temp <= 100)°F													
							Bear	ings	;						
							Bea	aring	Length	Dir.	Сар.	React D/L I	o Total	Ld. Case	Ld. Comb.
							1 - 3	SPF	3.500"	Vert	22%	2289 /	2289	Uniform	D
							End								
Analysis Resul	ts						Gra								
Analysis A	ctual	Location	Allowed	Capacity	Comb.	Case			3.500"	Vert	22%	2289 /	2289	Uniform	D
Moment 92	109 ft-lb	8'6"	17919 ft-lb	0.514 (51%) D	Uniform	End Gra								
Unbraced 92	:09 ft-lb	8'6"	9215 ft-lb	0.999	D	Uniform									

Uniform

Uniform

TL Defl inch 0.490 (L/405) **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.

1'3 3/8" 7980 lb

(100%)

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

8'6 1/16" 0.551 (L/360) 0.888 (89%) D

0.245 (24%) D

- 2 Fasten all plies using 2 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.

1953 lb

LL Defl inch 0.000 (L/999)

- 6 Top must be laterally braced at a maximum of 9'11 13/16" o.c.
- 7 Bottom must be laterally braced at end bearings.

o Lateral sieriderness 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				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
- Identified & 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

 Design assumes to be used

 Design assumes top edge is laterally restrained

 Fortwide 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



CSD DESIGN