

Client: Weaver Development Project:

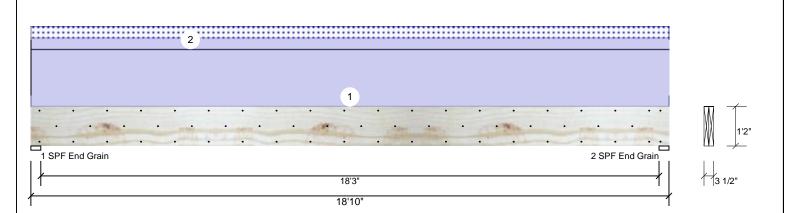
Lindsay 1553 Address: Lindsay 1553 Date: 8/17/2020

Input by: Christine Shivy Job Name:

Project #:

2-Ply - PASSED **Kerto-S LVL** 1.750" X 14.000" **GDH** 

Level: Level



## Member Information Reactions UNPATTERNED Ib (Uplift) Type: Girder Application: Floor Brg Live Dead Snow Plies: 2 Design Method: ASD 0 2363 377 1 Moisture Condition: Dry **Building Code:** IBC 2012 2363 2 0 377 Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Importance: Normal Temperature: Temp <= 100°F Bearings Bearing Length Cap. React D/L lb Total Ld. Case 1 - SPF 3.500" 2363 / 377 2739 L End Grain Analysis Results 2363 / 377 2 - SPF 3.500" 26% 2739 L Analysis Comb. Actual Location Allowed Case Capacity End

0.436 (44%) D

0.214 (21%) D

D+S

1.000

0.612 (L/360) 0.810 (81%) D+S

(100%)

## TL Defl inch 0.495 (L/445) **Design Notes**

Moment

Shear

Unbraced

1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".

9'5" 24299 ft-lb

12280 ft-lb

9'5 1/16" 0.459 (L/480) 0.150 (15%) S

9'5"

17'5 1/4" 9408 lb

2 Refer to last page of calculations for fasteners required for specified loads.

9'5 1/16"

- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.

10589 ft-lb

12277 ft-lb

2012 lb

LL Defl inch 0.068 (L/3239)

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

1 Eateral sicilatiness ratio based on single ply 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	Exterior Siding / Plywood	
2	Uniform			Тор	40 PLF	0 PLF	40 PLF	0 PLF	0 PLF	2'0" Roof Load	
	Self Weight				11 PLF						

Uniform

Uniform

L

ī.

Grain

## 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
- 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 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

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

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS

Wind

0

0

Const

0

0

Ld. Comb.

D+S

D+S



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This design is valid until 2/26/2023 CSD I