

Client: Signature Homes

Project:

Address: 84 Turlington Landing Road, Dunn NC Date: 7/8/2025

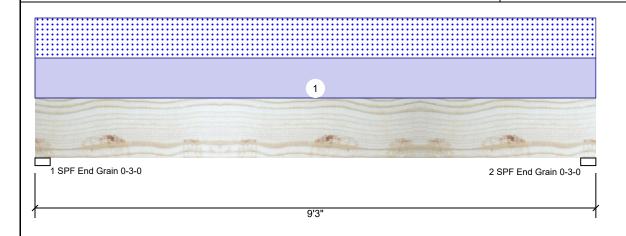
Input by:

Johnnie Baggett

Job Name: Lot 2 Turlington Landing

Project #: J0225-0847

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





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### Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Brg Live Wind Direction Dead Snow Const 0 1254 1212 0 Vertical 0 1 2 Vertical 0 1254 1212 0 0

# Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5250 ft-lb	4'7 1/2"	22897 ft-lb	23%	D+S	L
Unbraced	5250 ft-lb	4'7 1/2"	10288 ft-lb	51%	D+S	L
Shear	1805 lb	1'2 7/8"	10197 lb	18%	D+S	L
LL Defl inch	0.045 (L/2388)	4'7 1/2"	0.222 (L/480)	20%	S	L
TL Defl inch	0.091 (L/1174)	4'7 1/2"	0.296 (L/360)	31%	D+S	L

### Bearings

Bearing Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.000" End Grain	Vert	28%	1254 / 1212	2466	L	D+S
2 - SPF 3.000" End Grain	Vert	28%	1254 / 1212	2466	L	D+S

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Girders are designed to be supported on bottom edge only and across their full width.
- 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.

Self Weight

- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness 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	262 PLF	0 PLF	262 PLF	0 PLF	0 PLF	D2

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

This design is valid until 2/28/2028

9 PLF

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

**Manufacturer Info** 

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



