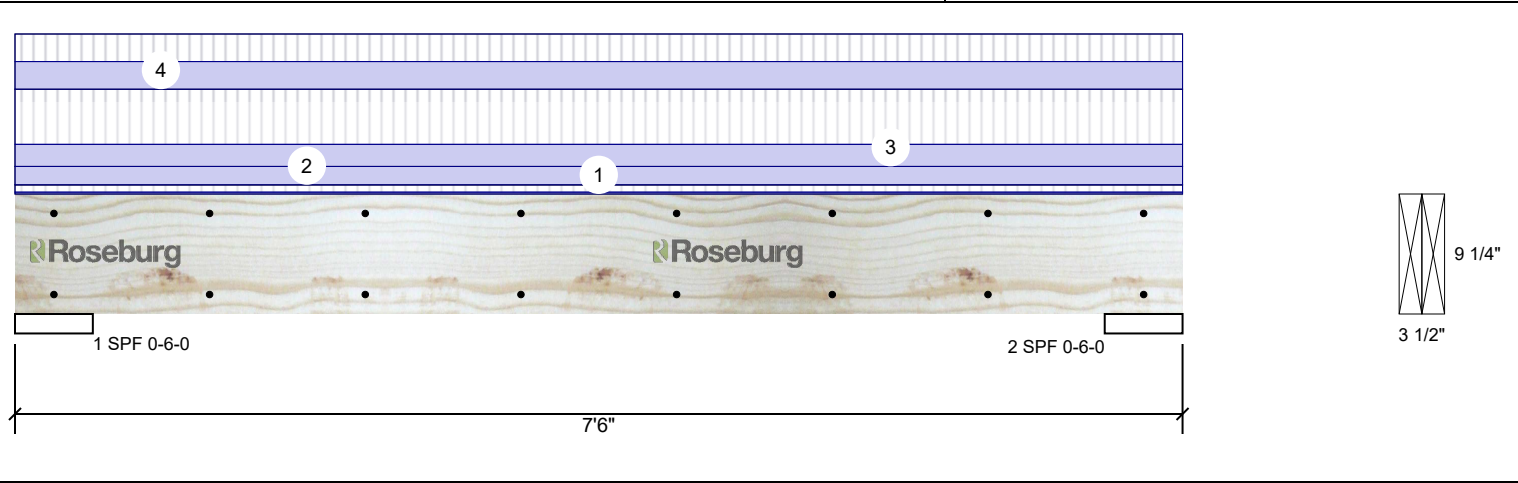


2-3068 header2.1E RigidLam LVL DF or SP1.750" X 9.250"2-Ply - PASSEDLevel: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1838	1460	0	0	0
2	Vertical	1838	1460	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	6.000"	Vert	37%	1460 / 1838	3298	L	D+L
2 - SPF	6.000"	Vert	37%	1460 / 1838	3298	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4825 ft-lb	3'9"	13320 ft-lb	36%	D+L	L
Unbraced	4825 ft-lb	3'9"	9762 ft-lb	49%	D+L	L
Shear	2180 lb	6'2 3/4"	6259 lb	35%	D+L	L
LL Defl inch	0.053 (L/1502)	3'9"	0.166 (L/480)	32%	L	L
TL Defl inch	0.095 (L/837)	3'9"	0.331 (L/240)	29%	D+L	L

Design Notes

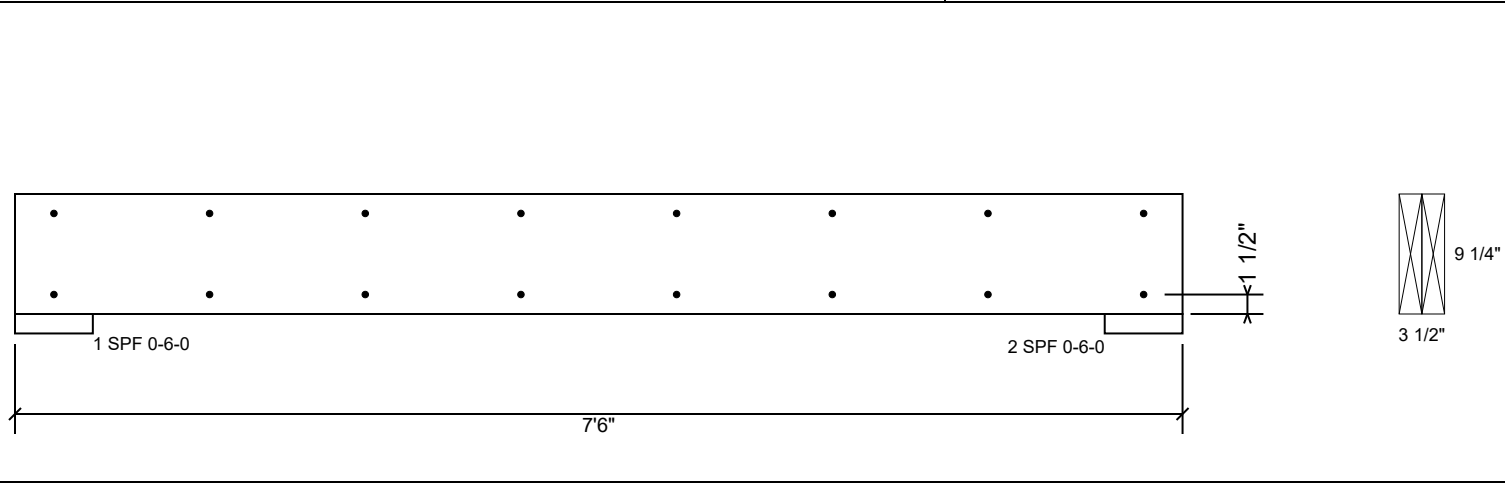
- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on bottom edge only and across their full width.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

Loads

ID	Load	Trib	Side	units	Dead 0.9	Live 1	Comments
	Type	Width			+	+	
1	Uniform	1-0-0	Top	PSF	10	40	
2	Uniform		Top	PLF	100		wall above
3	Uniform		Top	PLF	120	300	floor framing
4	Uniform		Top	PLF	150	150	roof framing
	Self Weight			PLF	9		

<div>Notes</div> <div>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.</div> <div>Lumber</div> <div>1. Dry service conditions, unless noted otherwise</div> <div>2. LVL not to be treated with fire retardant or corrosive chemicals</div> <div>Handling & Installation</div> <div>1. LVL beams must not be cut or drilled</div> <div>2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals</div> <div>3. Damaged Beams must not be used</div> <div>4. Design assumes top edge is laterally restrained</div> <div>5. Provide lateral support at bearing points to avoid lateral displacement and rotation</div> <div>6. For flat roofs provide proper drainage to prevent ponding</div>	<div>Manufacturer Info</div> <div>Roseburg Forest Products</div> <div>3661 Gateway Street</div> <div>Springfield, OR 97477</div> <div>(541) 679-3311</div> <div>www.roseburg.com</div> <div>APA: PR-L289, PR-L270, ICC-ES: ESR-1210</div>	<div>Carter Lumber Co</div> <div>298 Harvey Faulk Rd, NC</div> <div>USA</div> <div>27332</div> <div>919-775-1450</div>
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2-3068 header2.1E RigidLam LVL DF or SP1.750" X 9.250"2-Ply - PASSEDELevel: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	181.1 PLF
Yield Limit per Fastener	90.5 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00