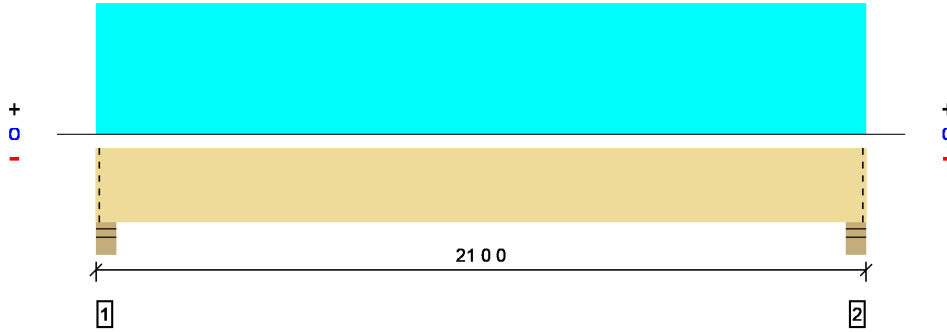


01: Level			
Member Name	Results	Current Solution	Comments
Flush Beam	Passed	2 Piece(s) 1 3/4" x 14" 1.9E Microllam® LVL	

Forte Software Operator	Job Notes
K. Hector Girardin TechCAD Services LLC (785) 249-3884 hector@techcadservices.com	Gary Briggs Osage City, Kansas

Overall Length: 21 0 0



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.;Drawing is Conceptual

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3410 @ 0 4 0	8181 (5.50")	Passed (42%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	2882 @ 1 7 8	11638	Passed (25%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	16785 @ 10 6 0	30323	Passed (55%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.551 @ 10 6 0	0.678	Passed (L/443)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.863 @ 10 6 0	1.017	Passed (L/283)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC
 Design Methodology : ASD
 Member Pitch : 0/12

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 9 6 2 o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Stud wall - SPF	5.50"	5.50"	2.29"	1231	2179	3410	Blocking
2 - Stud wall - SPF	5.50"	5.50"	2.29"	1231	2179	3410	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Comments
1 - Uniform (PSF)	0 0 0 to 21 0 0	6 11 0	15.0	30.0	Roof

Weyerhaeuser Notes

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The product application, input design loads, dimensions and support information have been provided by K. Hector Girardin



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