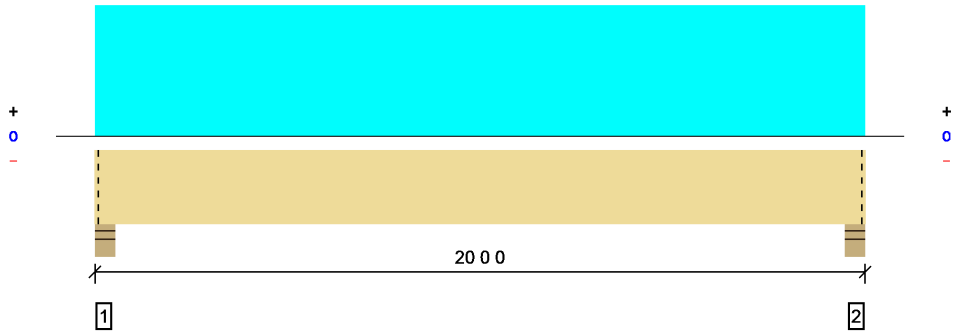
FORTE®

MEMBER REPORT *Level, Bm1*

PASSED

2 piece(s) 1 3/4" x 20" 1.9E Microllam® LVL

Overall Length: 20 0 0



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

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	6073 @ 0 4 0	8181 (5.50")	Passed (74%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	4783 @ 2 1 8	16625	Passed (29%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	28376 @ 10 0 0	58953	Passed (48%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.223 @ 10 0 0	0.483	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.480 @ 10 0 0	0.967	Passed (L/484)	--	1.0 D + 1.0 Lr (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 6 9 7 o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Total	
1 - Stud wall - SPF	5.50"	5.50"	4.08"	3253	400	2820	6473	Blocking
2 - Stud wall - SPF	5.50"	5.50"	4.08"	3253	400	2820	6473	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)	Floor Live (1.00)	Roof Live (non-snow: 1.25)	Comments
1 - Uniform (PSF)	0 0 0 to 20 0 0	1 0 0	12.0	40.0	-	Residential - Living Areas
2 - Uniform (PLF)	0 0 0 to 20 0 0	N/A	125.0	-	-	Wall
3 - Uniform (PLF)	0 0 0 to 20 0 0	N/A	56.0	-	94.0	Roof
4 - Uniform (PLF)	0 0 0 to 20 0 0	N/A	113.0	-	188.0	Balloon Framing

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The product application, input design loads, dimensions and support information have been provided by Forte Software Operator

SUSTAINABLE FORESTRY INITIATIVE

Forte Software Operator	Job Notes
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