

Member Report

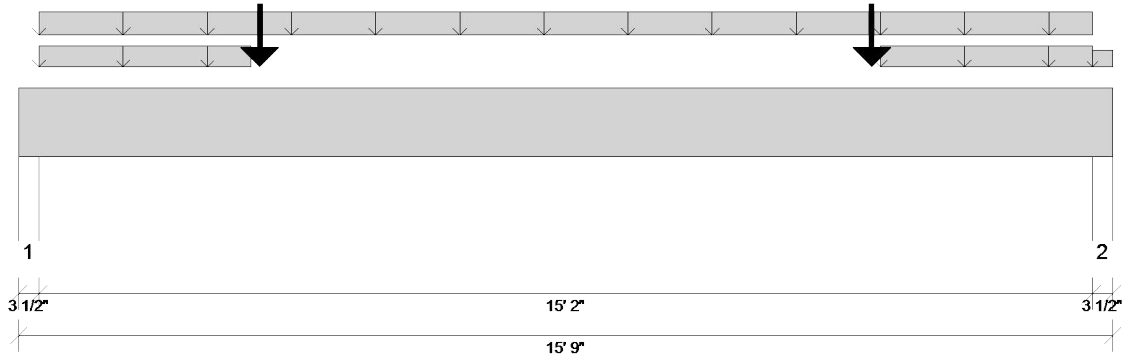
Label: M1-2 | Design Tag: i1258

2 piece(s) of 1 3/4" x 11 7/8" 2.0E Microllam® LVL

Member Type: Beam | Level: Ceiling

Design Passed

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021

Design Methodology: ASD

Member Cut Length: 15' 9"

Member Drawing Not to Scale

Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	1814 lb @ 15' 7"	9187 lb (3.5")	Passed - 20%	-	1.0 D + 0.75 L + 0.75 S - (0)
Shear	1587 lb @ 1' 3 3/8"	9081 lb	Passed - 17%	1.15	1.0 D + 0.75 L + 0.75 S - (0)
Moment	6123 lb-ft @ 7' 10 1/2"	20525 lb-ft	Passed - 30%	1.15	1.0 D + 0.75 L + 0.75 S - (0)
Live Load Deflection	0.15" @ 7' 10 1/2"	0.51" L/360	Passed - L/999	-	1.0 D + 0.75 L + 0.75 S - (0)
Total Load Deflection	0.30" @ 7' 10 1/2"	0.77" L/240	Passed - L/620	-	1.0 D + 0.75 L + 0.75 S - (0)

Design Notes:

- * Top Edge Bracing (Lu): Top compression edge must be braced along member length at 15-09-00 o/c based on loads applied, unless detailed otherwise.
- * Bottom Edge Bracing (Lu): Bottom compression edge must be braced along member length at 15-09-00 o/c based on loads applied, unless detailed otherwise.
- * Allowed moment does not reflect the adjustment for the beam stability factor.

Supports:

Support	Start : End	Req'd Br'g	Source	Maximum Loads to Supports				
				Dead	Floor Live	Roof Live	Snow	Wind
1	0" : 3' 1/2"	1.5"	B37(i65)	917 lb	351 lb	-	827 lb	-
2	15' 5 1/2" : 15' 9"	1.5"	B43(i72)	924 lb	354 lb	-	833 lb	-

Loads:

Type	Start : End (Side)	Combine	Source	Maximum Loads on Member				
				Dead	Floor Live	Roof Live	Snow	Wind
Self Weight	0" : 15' 9"	-	Self Weight	11 lb/ft	-	-	-	-
Uniform	3' 1/2" : 15' 5 1/2" (Top)	-	User Load	55 lb/ft	25 lb/ft	-	60 lb/ft	-
Uniform	3' 1/2" : 3' 4 1/8" (Top)	-	User Load	52 lb/ft	52 lb/ft	-	-	-
Uniform	12' 4 7/8" : 15' 5 1/2" (Top)	-	User Load	52 lb/ft	52 lb/ft	-	-	-
Uniform	15' 5 1/2" : 15' 9" (Top)	-	User Load	6 lb/ft	6 lb/ft	-	-	-
Point	3' 5 5/8" (Top)	-	BBO1-2(i1264)	250 lb	-	-	375 lb	-
Point	12' 3 3/8" (Top)	-	BBO1-2(i1267)	250 lb	-	-	375 lb	-

Errors, Warnings, & Notes:

- * If sloping roof loads are applied to this member, the roof dead load has been adjusted for slope.
- * The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.

File Name: 26139

LOT 5 LEAFLET CHURCH ROAD

REVISION DATE

REVISION COMMENTS

Javelin® Software 6.7.0.354

Design Engine: V8.4.2.19

Data: V8.1.6.3

12/23/2024 10:47:42 AM

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Product is Sufficient for Application and Loads Described

Design Passed

* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.

* Side loads are assumed to not induce cross-grain tension.

* Load Duration Factors: Dead - 0.90, Floor Live - 1.00, Roof Live - 1.25, Snow - 1.15, Wind - 1.60

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