

Member Report

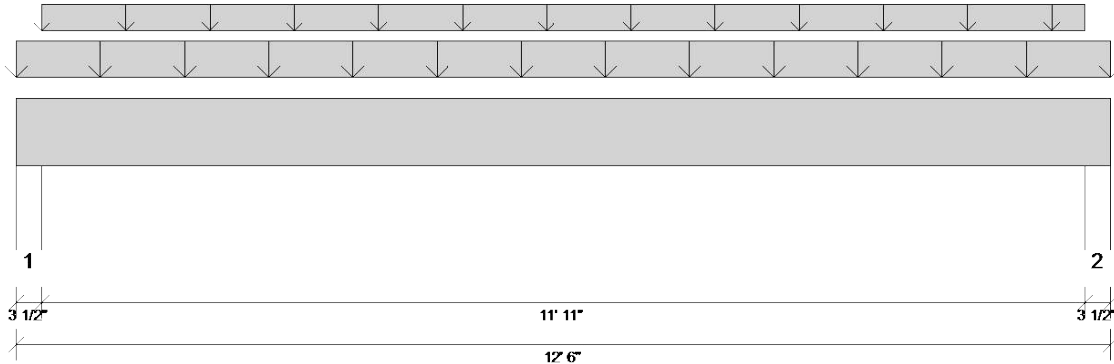
Label: M1-2 | Design Tag: i8000

2 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL

Member Type: Beam | Level: Attic

Design Passed

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018

Design Methodology: ASD

Member Cut Length: 12' 6"

Member Drawing Not to Scale

| Design Results: | Design @ Location | Allowed | Result | LDF | Load Combination - (Load Group) |
|------------------------|--------------------------|----------------|----------------|------------|--|
| Critical Reaction | 3031 lb @ 12' 4" | 9187 lb (3.5") | Passed - 33% | - | 1.0 D + 0.75 L + 0.75 S - (0) |
| Shear | 2554 lb @ 11' 5 1/4" | 7074 lb | Passed - 36% | 1.15 | 1.0 D + 0.75 L + 0.75 S - (0) |
| Moment | 9108 lb-ft @ 6' 3" | 12884 lb-ft | Passed - 71% | 1.15 | 1.0 D + 0.75 L + 0.75 S - (0) |
| Live Load Deflection | 0.33" @ 6' 3" | 0.41" L/360 | Passed - L/445 | - | 1.0 D + 0.75 L + 0.75 S - (0) |
| Total Load Deflection | 0.56" @ 6' 3" | 0.61" L/240 | Passed - L/262 | - | 1.0 D + 0.75 L + 0.75 S - (0) |

Design Notes:

* Top Edge Bracing (Lu): Top compression edge must be braced at 11-10-00 o/c based on loads applied, unless detailed otherwise.

* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 12-06-00 o/c based on loads applied, unless detailed otherwise.

Supports:

| Support | Start : End | Req'd Br'g | Source | Maximum Loads to Supports | | | |
|---------|---------------------|------------|------------|---------------------------|------------|-----------|---------|
| | | | | Dead | Floor Live | Roof Live | Snow |
| 1 | 0" : 3 1/2" | 1.5" | E25(i2332) | 1246 lb | 755 lb | - | 1625 lb |
| 2 | 12' 2 1/2" : 12' 6" | 1.5" | E35(i2343) | 1243 lb | 750 lb | - | 1625 lb |

Loads:

| Type | Start : End | Combine | Source | Maximum Loads on Member | | | |
|-------------|---------------------|---------|-------------|-------------------------|------------|-----------|-----------|
| | | | | Dead | Floor Live | Roof Live | Snow |
| Self Weight | 0" : 12' 6" | - | Self Weight | 9 lb/ft | - | - | - |
| Uniform | 0" : 12' 6" | - | User Load | 130 lb/ft | - | - | 260 lb/ft |
| Uniform | 3 1/2" : 12' 2 1/2" | - | User Load | 63 lb/ft | 126 lb/ft | - | - |

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.

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

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



Member Report

Label: M1-2 | Design Tag: i8000

2 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL

Member Type: Beam | Level: Attic

Product is Sufficient for Application and Loads Described

Design Passed

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Member Report

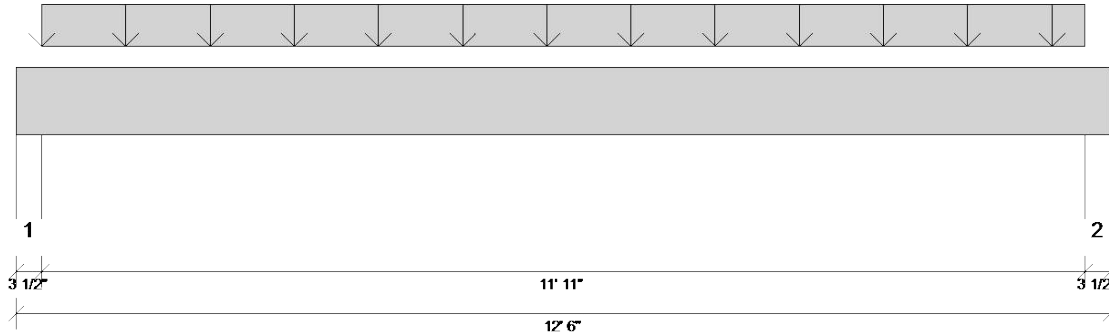
Label: M1-2 | Design Tag: i7995

2 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL

Member Type: Beam | Level: Attic

Design Passed

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018

Design Methodology: ASD

Member Cut Length: 12' 6"

Member Drawing Not to Scale

| Design Results: | Design @ Location | Allowed | Result | LDF | Load Combination - (Load Group) |
|------------------------|--------------------------|----------------|----------------|------------|--|
| Critical Reaction | 2936 lb @ 2" | 9187 lb (3.5") | Passed - 32% | - | 1.0 D + 0.75 L + 0.75 S - (0) |
| Shear | 2554 lb @ 1' 0 3/4" | 7074 lb | Passed - 36% | 1.15 | 1.0 D + 0.75 L + 0.75 S - (0) |
| Moment | 9105 lb-ft @ 6' 3" | 12884 lb-ft | Passed - 71% | 1.15 | 1.0 D + 0.75 L + 0.75 S - (0) |
| Live Load Deflection | 0.33" @ 6' 3" | 0.41" L/360 | Passed - L/445 | - | 1.0 D + 0.75 L + 0.75 S - (0) |
| Total Load Deflection | 0.56" @ 6' 3" | 0.61" L/240 | Passed - L/262 | - | 1.0 D + 0.75 L + 0.75 S - (0) |

Design Notes:

* Top Edge Bracing (Lu): Top compression edge must be braced at 11-10-00 o/c based on loads applied, unless detailed otherwise.

* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 12-06-00 o/c based on loads applied, unless detailed otherwise.

Supports:

| Support | Start : End | Req'd Br'g | Source | Maximum Loads to Supports | | | |
|---------|---------------------|------------|------------|---------------------------|------------|-----------|---------|
| | | | | Dead | Floor Live | Roof Live | Snow |
| 1 | 0" : 3 1/2" | 1.5" | E35(i2343) | 1207 lb | 752 lb | - | 1549 lb |
| 2 | 12' 2 1/2" : 12' 6" | 1.5" | E32(i2336) | 1207 lb | 752 lb | - | 1549 lb |

Loads:

| Type | Start : End | Combine | Source | Maximum Loads on Member | | | |
|-------------|---------------------|---------|-------------|-------------------------|------------|-----------|-----------|
| | | | | Dead | Floor Live | Roof Live | Snow |
| Self Weight | 0" : 12' 6" | - | Self Weight | 9 lb/ft | - | - | - |
| Uniform | 3 1/2" : 12' 2 1/2" | - | User Load | 193 lb/ft | 126 lb/ft | - | 260 lb/ft |

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.

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

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



Member Report

Label: M1-2 | Design Tag: i7995

2 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL

Member Type: Beam | Level: Attic

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Design Passed

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