

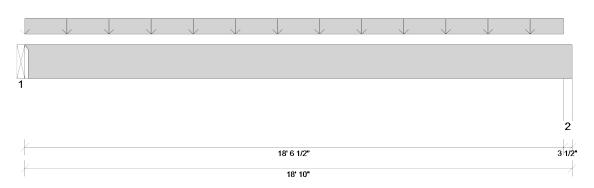
# **Member Report**

Label: M2-2 | Design Tag: i761

2 piece(s) of 1 3/4" x 14" 2.0E Microllam® LVL

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021	Design Methodology: ASD	Member Cut Len	gth: 18' 10"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result	<u>LDF</u>	Load Combination - (Load Group)
Critical Reaction	2787 lb @ 0"	3938 lb (1.5")	Passed - 71%	-	1.0 D + 1.0 L - (0)
Shear	2439 lb @ 1' 2"	9310 lb	Passed - 26%	1.00	1.0 D + 1.0 L - (0)
Moment	13007 lb-ft @ 9' 4"	24258 lb-ft	Passed - 54%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.34" @ 9' 4"	0.62" L/360	Passed - L/653	-	1.0 D + 1.0 L - (0)
Total Load Deflection	0.54" @ 9' 4"	0.93" L/240	Passed - L/415	-	1.0 D + 1.0 L - (0)

## **Design Notes:**

- \* Top Edge Bracing (Lu): Top compression edge must be braced at 12-06-00 o/c based on loads applied, unless detailed otherwise.
- \* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 18-10-00 o/c based on loads applied, unless detailed otherwise.
- \* Allowed moment does not reflect the adjustment for the beam stability factor.

Supports:					Maximum Load	s to Supports	
<u>Support</u>	Start : End	Req'd Br'g	<u>Source</u>	<u>Dead</u>	Floor Live	Roof Live	Snow
1	0":-	1.5"	M3-2(i752)	1005 lb	1758 lb	-	-
2	18' 6 1/2" : 18' 10"	1.5"	B6(i26)	1007 lb	1758 lb	-	-

Loads:		Maximum Loads on Member					
<u>Type</u>	Start : End (Side)	Combine	Source	Dead	Floor Live	Roof Live	Snow
Self Weight	0" : 18' 10"	-	Self Weight	14 lb/ft	-	-	-
Uniform	0": 18' 6 1/2" (Top)	-	User Load	95 lb/ft	190 lb/ft	-	-

Connector Information:		Nail	ing Requirem	ents			
Support	Manufacturer	Model	Тор	<u>Face</u>	Member	Min. Seat Length	Other Information
1	SST	HU416	Not Applicable	20- 16d	8- 10d	1.5"	Minimum seat length reported is based on the design load

## 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

File Name: SR-326192 188 Hobby Road REVISION DATE REVISION COMMENTS Javelin® Software 6.6.0.97

Design Engine: V8.2.4.1 Data: V8.1.3.6 4/16/2024 9:16:09 AM



# **Member Report**

Label: M2-2 | Design Tag: i761
2 piece(s) of 1 3/4" x 14" 2.0E Microllam® LVL

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

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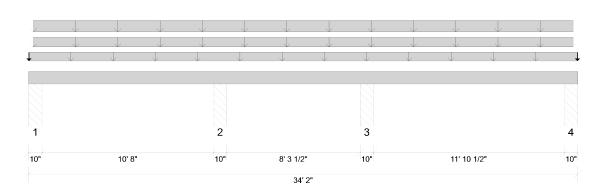


# **Member Report**

Label: M4-2 | Design Tag: i759
2 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021 Design Methodology: ASD Member Cut Length: 34' 2" Member Drawing Not to Scale

Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	2615 lb @ 21' 0 1/2"	26250 lb (10")	Passed - 10%	-	1.0 D + 0.75 L + 0.75 S - (0)
Shear	1278 lb @ 22' 2 3/4"	7074 lb	Passed - 18%	1.15	1.0 D + 0.75 L + 0.75 S - (0)
Moment	-2890 lb-ft @ 21' 0 1/2"	12884 lb-ft	Passed - 22%	1.15	1.0 D + 0.75 L + 0.75 S - (0)
Live Load Deflection	0.08" @ 27' 7 3/4"	0.41" L/360	Passed - L/999	-	1.0 D + 0.75 L + 0.75 S - (0)
Total Load Deflection	0.16" @ 27' 8 1/2"	0.62" L/240	Passed - L/907	-	1.0 D + 0.75 L + 0.75 S - (0)

## **Design Notes:**

- \* Top Edge Bracing (Lu): Top compression edge must be braced at 34-02-00 o/c based on loads applied, unless detailed otherwise.
- \* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 34-02-00 o/c based on loads applied, unless detailed otherwise.
- $^{\star}$  Allowed moment does not reflect the adjustment for the beam stability factor.

Supports:					Maximum Load	s to Supports	
Support	Start : End	Req'd Br'g	Source	<u>Dead</u>	Floor Live	Roof Live	Snow
1	0" : 10"	1.5"	PBO4(i33)	591 lb	187 / -12 lb	-	496 lb
2	11' 6" : 12' 4"	1.5"	PBO3(i32)	1218 lb	430 lb	-	1065 lb
3	20' 7 1/2" : 21' 5 1/2"	1.5"	PBO2(i31)	1377 lb	463 lb	-	1174 lb
4	33' 4" : 34' 2"	1.5"	PBO1(i30)	642 lb	200 / -10 lb	-	535 lb

Loads:				Maximum Loads on Member				
<u>Type</u>	Start : End (Side)	Combine	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 34' 2"	-	Self Weight	9 lb/ft	-	-	-	
Uniform	-0" : 34' 2" (Top)	-	PLT22(i80)	16 lb/ft	-	-	20 lb/ft	
Uniform	3 1/2" : 33' 10 1/2" (Top)	-	PLT22(i80)	54 lb/ft	-	-	72 lb/ft	
Uniform	3 1/2" : 33' 10 1/2" (Top)	-	User Load	34 lb/ft	34 lb/ft	-	-	
Point	1/4" (Top)	-	PLT22(i80)	4 lb	-	-	6 lb	
Point	34' 1 3/4" (Top)	-	PLT22(i80)	4 lb	-	-	6 lb	

## Errors, Warnings, & Notes:

<sup>\*</sup> If sloping roof loads are applied to this member, the roof dead load has been adjusted for slope.

<sup>\*</sup> The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.



# **Member Report**

Label: M4-2 | Design Tag: i759

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

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

\* 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

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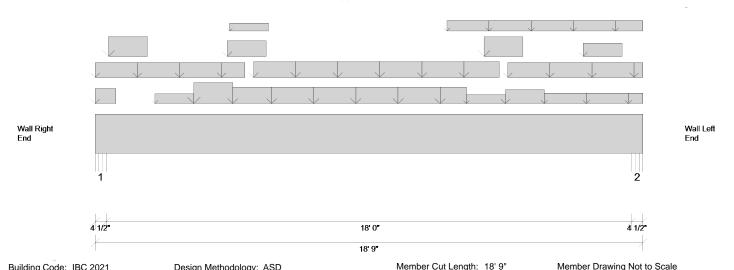




# **Member Report**

Wall: E13 | Label: E13\_MHd1-3 | Design Tag: i755 3 piece(s) of 1 3/4" x 16" 2.0E Microllam® LVL Member Type: HeaderAsDroppedBeam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described



Dulluling Code. IDC 2021 Design Wethodology. ASD		Monibor Out Longin. To o			Monibol Brawing Not to Coale	
Design Results:	Design @ Location	Allowed	Result	<u>LDF</u>	Load Combination - (Load Group)	
Critical Reaction	9143 lb @ 3"	17719 lb (4.5")	Passed - 52%	-	1.0 D + 0.75 L + 0.75 S - (0)	
Shear	6762 lb @ 17' 0 1/2"	15960 lb	Passed - 42%	1.00	1.0 D + 1.0 L - (0)	
Moment	37727 lb-ft @ 9' 3 15/16"	46671 lb-ft	Passed - 81%	1.00	1.0 D + 1.0 L - (0)	
Live Load Deflection	0.38" @ 9' 4 9/16"	0.61" L/360	Passed - L/573	-	1.0 D + 0.75 L + 0.75 S - (0)	
Total Load Deflection	0.75" @ 9' 4 3/8"	0.91" L/240	Passed - L/293	-	1.0 D + 0.75 L + 0.75 S - (0)	

# **Design Notes:**

- \* Top Edge Bracing (Lu): Top compression edge must be braced at 7-04-00 o/c based on loads applied, unless detailed otherwise.
- \* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 18-09-00 o/c based on loads applied, unless detailed otherwise.
- \* Allowed moment does not reflect the adjustment for the beam stability factor.

Supports:					Maximum Loads to Supports				
Support	Start : End	Req'd Br'g	Source	<u>Dead</u>	Floor Live	Roof Live	Snow		
1	0":41/2"	2.32"	Trimmer	4554 lb	3714 lb	-	2386 lb		
2	18' 4 1/2" : 18' 9"	2.27"	Trimmer	4346 lb	3701 lb	-	2389 lb		

Loads:					Maximum Loads	on Member	
<u>Type</u>	Start : End (Side)	Combine	Source	Dead	Floor Live	Roof Live	Snow
Self Weight	0" : 18' 9"	-	Self Weight	23 lb/ft	-	-	-
Uniform	0" : 5' 1 1/2" (Top)	-	STCa1(i745)	188 lb/ft	-	-	250 lb/ft
Uniform	0": 8 1/2" (Top)	-	Smoothed Load	161 lb/ft	309 lb/ft	-	-
Uniform	5 1/2" : 1' 9 1/2" (Top)	-	Smoothed Load	341 lb/ft	461 lb/ft	-	-
Uniform	2' 0 1/2" : 3' 4 1/2" (Top)	-	Smoothed Load	53 lb/ft	88 lb/ft	-	-
Uniform	3' 4 1/2" : 4' 8 1/2" (Top)	-	Smoothed Load	395 lb/ft	484 lb/ft	-	-
Uniform	4' 6 3/16" : 5' 10 3/16" (Top)	-	Smoothed Load	288 lb/ft	183 lb/ft	-	43 lb/ft
Uniform	4' 7 1/4" : 5' 11 1/4" (Top)	-	Smoothed Load	10 lb/ft	-	-	6 lb/ft
Uniform	4' 8 1/2" : 6' 0 1/2" (Top)	-	Smoothed Load	279 lb/ft	259 lb/ft	-	43 lb/ft
Uniform	5' 5" : 13' 10" (Top)	-	STCa1(i745)	268 lb/ft	-	-	249 lb/ft
Uniform	6' 0 1/2" : 12' 8 1/2" (-)	-	Smoothed Load	131 lb/ft	454 lb/ft	-	-
Uniform	12' 8 1/2" : 14' 0 1/2" (Top)	-	Smoothed Load	95 lb/ft	-	-	-
Uniform	13' 3 3/4" : 14' 7 3/4" (Top)	-	Smoothed Load	482 lb/ft	207 lb/ft	-	91 lb/ft
Uniform	14' 0 1/2" : 15' 4 1/2" (Top)	-	Smoothed Load	149 lb/ft	265 lb/ft	-	-
Uniform	14' 1 1/2" : 18' 9" (Top)	-	STCa1(i745)	188 lb/ft	-	-	250 lb/ft
Uniform	15' 4 1/2" : 18' 9" (-)	-	Smoothed Load	179 lb/ft	-	-	-
Uniform	16' 8 1/2" : 18' 0 1/2" (Top)	-	Smoothed Load	-	341 lb/ft	-	-
Tapered	12' 0 1/2" : 18' 9" (-)	-	Smoothed Load	-	165 To 168 lb/ft	-	-

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# **Member Report**

Wall: E13 | Label: E13\_MHd1-3 | Design Tag: i755 3 piece(s) of 1 3/4" x 16" 2.0E Microllam® LVL

Member Type: HeaderAsDroppedBeam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

#### 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

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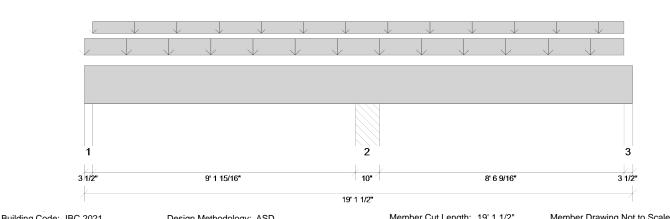
# **Member Report**

Label: M1-2 | Design Tag: i753

2 piece(s) of 1 3/4" x 16" 2.0E Microllam® LVL

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021 Design Methodology: ASD			Member Cut Leng	jui. 19 1 1/2	Member Drawing Not to Scale	
Design Results:	Design Results: Design @ Location		Result	<u>LDF</u>	Load Combination - (Load Group)	
Critical Reaction	4883 lb @ 9' 10 7/16"	26250 lb (10")	Passed - 19%	-	1.0 D + 0.75 L + 0.75 S - (0)	
Shear	1762 lb @ 8' 1 7/16"	12236 lb	Passed - 14%	1.15	1.0 D + 0.75 L + 0.75 S - (0)	
Moment	-4598 lb-ft @ 9' 10 7/16"	35781 lb-ft	Passed - 13%	1.15	1.0 D + 0.75 L + 0.75 S - (0)	
Live Load Deflection	0.02" @ 4' 7 5/8"	0.32" L/360	Passed - L/999	-	1.0 D + 0.75 L + 0.75 S - (0)	
Total Load Deflection	0.03" @ 4' 6 1/8"	0.49" L/240	Passed - L/999	-	1.0 D + 0.75 L + 0.75 S - (0)	

## **Design Notes:**

- \* Top Edge Bracing (Lu): Top compression edge must be braced at 19-02-00 o/c based on loads applied, unless detailed otherwise.
- \* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 19-02-00 o/c based on loads applied, unless detailed otherwise.
- \* Allowed moment does not reflect the adjustment for the beam stability factor.

Supports:				Maximum Loads to Supports				
Support	Start : End	Req'd Br'g	<u>Source</u>	<u>Dead</u>	Floor Live	Roof Live	Snow	
1	0":3 1/2"	1.5"	B10(i35)	780 lb	405 / -49 lb	-	763 lb	
2	9' 5 7/16" : 10' 3 7/16"	1.86"	PBO7(i46)	2375 lb	1126 lb	=	2151 lb	
3	18' 10" : 19' 1 1/2"	1.5"	B6(i26)	670 lb	382 / -64 lb	-	664 lb	

Loads:		Maximum Loads on Member					
<u>Type</u>	Start : End (Side)	Combine	Source	<u>Dead</u>	Floor Live	Roof Live	Snow
Self Weight	0" : 19' 1 1/2"	-	Self Weight	15 lb/ft	-	-	-
Uniform	-0" : 18' 10" (Top)	-	PLT26(i121)	140 lb/ft	-	-	184 lb/ft
Uniform	3 1/2": 18' 10" (Back)	=	User Load	49 lb/ft	97 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

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Design Engine: V8.2.4.1 Data: V8.1.3.6 4/16/2024 9:16:09 AM



# **Member Report**

Label: M1-2 | Design Tag: i753

# 2 piece(s) of 1 3/4" x 16" 2.0E Microllam® LVL

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

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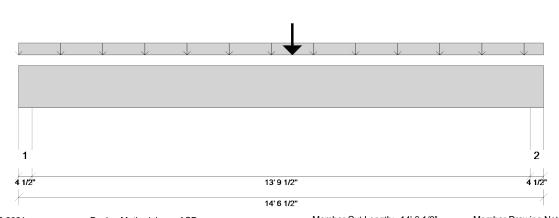
# **Member Report**

Label: M3-2 | Design Tag: i752

2 piece(s) of 1 3/4" x 14" 2.0E Microllam® LVL

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021	Design Methodology: ASD	vietnodology: ASD Weitiber Cut L		jtn: 14 6 1/2	Member Drawing Not to Scale
Design Results:	Design @ Location	Allowed	Result	<u>LDF</u>	Load Combination - (Load Group)
Critical Reaction	2708 lb @ 14' 3 1/2"	11813 lb (4.5")	Passed - 23%	-	1.0 D + 1.0 L - (0)
Shear	2440 lb @ 13' 0"	9310 lb	Passed - 26%	1.00	1.0 D + 1.0 L - (0)
Moment	13960 lb-ft @ 7' 7"	24258 lb-ft	Passed - 58%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.19" @ 7' 7"	0.47" L/360	Passed - L/898	-	1.0 D + 1.0 L - (0)
Total Load Deflection	0.30" @ 7' 7"	0.70" L/240	Passed - L/563	-	1.0 D + 1.0 L - (0)

## **Design Notes:**

- \* Top Edge Bracing (Lu): Top compression edge must be braced at 11-05-00 o/c based on loads applied, unless detailed otherwise.
- \* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 14-07-00 o/c based on loads applied, unless detailed otherwise.
- \* Allowed moment does not reflect the adjustment for the beam stability factor.

Supports:					Maximum Load	s to Supports	
Support	Start : End	Req'd Br'g	<u>Source</u>	Dead	Floor Live	Roof Live	Snow
1	0":41/2"	1.5"	B10(i35)	966 lb	1614 lb	-	-
2	14' 2" : 14' 6 1/2"	1.5"	B8(i36)	1010 lb	1692 lb	-	-

Loads:			Maximum Loads on Member				
<u>Type</u>	Start : End (Side)	Combine	Source	<u>Dead</u>	Floor Live	Roof Live	Snow
Self Weight	0" : 14' 6 1/2"	-	Self Weight	14 lb/ft	-	-	-
Uniform	0": 14' 6 1/2" (Top)	-	User Load	53 lb/ft	106 lb/ft	-	-
Point	7' 7" (Back)	-	M2-2(i761)	1005 lb	1758 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.
- \* 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

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# **Member Report**

Label: M3-2 | Design Tag: i752

# 2 piece(s) of 1 3/4" x 14" 2.0E Microllam® LVL

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

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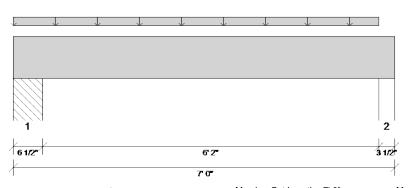


# **Member Report**

Label: M6-2 | Design Tag: i747
2 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021 Design Methodology: ASD Member Cut Length: 7'0" Member Drawing Not to Scale

Design Results:	Design @ Location	Allowed	Result	<u>LDF</u>	Load Combination - (Load Group)
Critical Reaction	144 lb @ 6' 10"	9187 lb (3.5")	Passed - 2%	-	1.0 D + 1.0 S - (0)
Shear	106 lb @ 5' 11 1/4"	7074 lb	Passed - 2%	1.15	1.0 D + 1.0 S - (0)
Moment	236 lb-ft @ 3' 7 1/2"	12884 lb-ft	Passed - 2%	1.15	1.0 D + 1.0 S - (0)
Live Load Deflection	0.00" @ 3' 7 9/16"	0.21" L/360	Passed - L/999	-	1.0 D + 1.0 S - (0)
Total Load Deflection	0.00" @ 3' 7 9/16"	0.32" L/240	Passed - L/999	-	1.0 D + 1.0 S - (0)

## **Design Notes:**

- \* Top Edge Bracing (Lu): Top compression edge must be braced at 7-00-00 o/c based on loads applied, unless detailed otherwise.
- \* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 7-00-00 o/c based on loads applied, unless detailed otherwise.
- $^{\star}$  Allowed moment does not reflect the adjustment for the beam stability factor.

Supports:					Maximum Load	s to Supports	
Support	Start : End	Req'd Br'g	<u>Source</u>	Dead	Floor Live	Roof Live	Snow
1	0" : 6 1/2"	1.5"	PBO1(i30)	92 lb	-	-	72 lb
2	6' 8 1/2" : 7' 0"	1.5"	E12(i12)	82 lb	-	-	63 lb

Loads:			Maximum Loads on Member				
<u>Type</u>	Start : End (Side)	Combine	Source	<u>Dead</u>	Floor Live	Roof Live	Snow
Self Weight	0":7'0"	-	Self Weight	9 lb/ft	-	-	-
Uniform	0": 6' 8 1/2" (Top)	-	PLT21(i81)	16 lb/ft	-	-	20 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

File Name: SR-326192 188 Hobby Road REVISION DATE REVISION COMMENTS Javelin® Software 6.6.0.97



# **Member Report**

Label: M6-2 | Design Tag: i747

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

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

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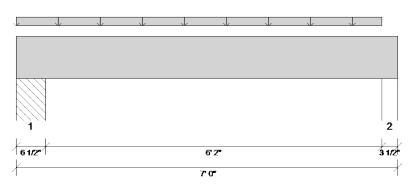


# **Member Report**

Label: M6-2 | Design Tag: i740
2 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021 Design Methodology: ASD Member Cut Length: 7'0" Member Drawing Not to Scale

Design Results:	Design @ Location	Allowed	Result	<u>LDF</u>	Load Combination - (Load Group)
Critical Reaction	144 lb @ 6' 10"	9187 lb (3.5")	Passed - 2%	-	1.0 D + 1.0 S - (0)
Shear	106 lb @ 5' 11 1/4"	7074 lb	Passed - 2%	1.15	1.0 D + 1.0 S - (0)
Moment	236 lb-ft @ 3' 7 1/2"	12884 lb-ft	Passed - 2%	1.15	1.0 D + 1.0 S - (0)
Live Load Deflection	0.00" @ 3' 7 9/16"	0.21" L/360	Passed - L/999	-	1.0 D + 1.0 S - (0)
Total Load Deflection	0.00" @ 3' 7 9/16"	0.32" L/240	Passed - L/999	-	1.0 D + 1.0 S - (0)

## **Design Notes:**

- \* Top Edge Bracing (Lu): Top compression edge must be braced at 7-00-00 o/c based on loads applied, unless detailed otherwise.
- \* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 7-00-00 o/c based on loads applied, unless detailed otherwise.
- \* Allowed moment does not reflect the adjustment for the beam stability factor.

Supports:					Maximum Load	s to Supports	
Support	Start : End	Req'd Br'g	<u>Source</u>	Dead	Floor Live	Roof Live	Snow
1	0" : 6 1/2"	1.5"	PBO4(i33)	92 lb	-	-	72 lb
2	6' 8 1/2" : 7' 0"	1.5"	E12(i12)	82 lb	-	-	63 lb

Loads:			Maximum Loads on Member				
<u>Type</u>	Start : End (Side)	Combine	Source	<u>Dead</u>	Floor Live	Roof Live	Snow
Self Weight	0":7'0"	-	Self Weight	9 lb/ft	-	-	-
Uniform	-0" : 6' 8 1/2" (Top)	-	PLT23(i79)	16 lb/ft	-	-	20 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

File Name: SR-326192 188 Hobby Road REVISION DATE REVISION COMMENTS Javelin® Software 6.6.0.97



# **Member Report**

Label: M6-2 | Design Tag: i740

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

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

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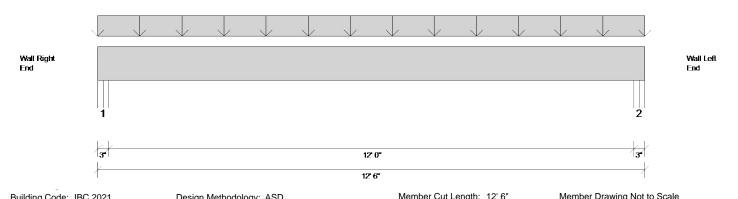




# **Member Report**

Wall: E24 | Label: E24\_MHd2-3 | Design Tag: i738
3 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL
Member Type: HeaderAsDroppedBeam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021	Design Methodology: ASD		Member Cut Leng	Jui. 12 0	Member Drawing Not to Scale
Design Results:	Design @ Location	Allowed	Result	<u>LDF</u>	Load Combination - (Load Group)
Critical Reaction	3051 lb @ 1 1/2"	11813 lb (3")	Passed - 26%	-	1.0 D + 1.0 S - (0)
Shear	2553 lb @ 1' 0 1/4"	10611 lb	Passed - 24%	1.15	1.0 D + 1.0 S - (0)
Moment	9157 lb-ft @ 6' 3"	19327 lb-ft	Passed - 47%	1.15	1.0 D + 1.0 S - (0)
Live Load Deflection	0.21" @ 6' 3"	0.41" L/360	Passed - L/701	-	1.0 D + 1.0 S - (0)
Total Load Deflection	0.38" @ 6' 3"	0.61" L/240	Passed - L/388	-	1.0 D + 1.0 S - (0)

## **Design Notes:**

- \* Top Edge Bracing (Lu): Top compression edge must be braced at 12-06-00 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.
- $^{\star}$  Allowed moment does not reflect the adjustment for the beam stability factor.

Supports:					Maximum Loads to Supports				
Support	Start : End	Req'd Br'g	Source	<u>Dead</u>	Floor Live	Roof Live	Snow		
1	0":3"	1.5"	Trimmer	1359 lb	-	-	1688 lb		
2	12' 3" : 12' 6"	1.5"	Trimmer	1359 lb	-	-	1688 lb		

Loads:		Maximum Loads on Member					
<u>Type</u>	Start : End (Side)	<u>Combine</u>	Source	<u>Dead</u>	Floor Live	Roof Live	Snow
Self Weight	0" : 12' 6"	-	Self Weight	13 lb/ft	-	-	-
Uniform	0" : 12' 6" (Top)	-	PLT1(i70)	204 lb/ft	-	-	270 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

File Name: SR-326192 188 Hobby Road REVISION DATE REVISION COMMENTS Javelin® Software 6.6.0.97



# **Member Report**

Wall: E24 | Label: E24\_MHd2-3 | Design Tag: i738 3 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL

Member Type: HeaderAsDroppedBeam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

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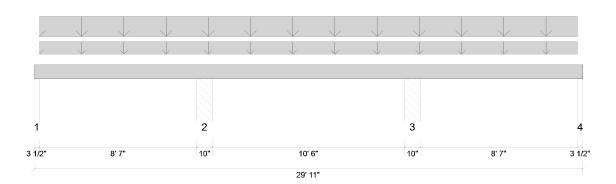


# **Member Report**

Label: M5-2 | Design Tag: i722 2 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021 Design Methodology: ASD Member Cut Length: 29' 11" Member Drawing Not to Scale

Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	6223 lb @ 9' 3 1/2"	26250 lb (10")	Passed - 24%	-	1.0 D + 0.75 L + 0.75 S - (0)
Shear	2499 lb @ 10' 5 3/4"	7074 lb	Passed - 35%	1.15	1.0 D + 0.75 L + 0.75 S - (0)
Moment	-5922 lb-ft @ 9' 3 1/2"	12884 lb-ft	Passed - 46%	1.15	1.0 D + 0.75 L + 0.75 S - (0)
Live Load Deflection	0.10" @ 14' 11 1/2"	0.38" L/360	Passed - L/999	-	1.0 D + 0.75 L + 0.75 S - (0)
Total Load Deflection	0.16" @ 14' 11 1/2"	0.57" L/240	Passed - L/852	-	1.0 D + 0.75 L + 0.75 S - (0)

## **Design Notes:**

- \* Top Edge Bracing (Lu): Top compression edge must be braced at 29-11-00 o/c based on loads applied, unless detailed otherwise.
- \* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 19-07-00 o/c based on loads applied, unless detailed otherwise.
- \* Allowed moment does not reflect the adjustment for the beam stability factor.

Supports:				Maximum Loads to Supports				
Support	Start : End	Req'd Br'g	Source	<u>Dead</u>	Floor Live	Roof Live	Snow	
1	0" : 3 1/2"	1.5"	E7(i3)	865 lb	473 / -88 lb	-	944 lb	
2	8' 10 1/2" : 9' 8 1/2"	2.37"	PBO5(i41)	2922 lb	1386 lb	-	2958 lb	
3	20' 2 1/2" : 21' 0 1/2"	2.37"	PBO6(i42)	2922 lb	1386 lb	=	2958 lb	
4	29' 7 1/2" : 29' 11"	1.5"	E10(i5)	865 lb	473 / -88 lb	-	944 lb	

Loads:				Maximum Loads on Member				
<u>Type</u>	Start : End (Side)	Combine	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 29' 11"	-	Self Weight	9 lb/ft	-	-	-	
Uniform	3 1/2" : 29' 7 1/2" (Top)	-	PLT24(i82)	192 lb/ft	-	-	253 lb/ft	
Uniform	3 1/2": 29' 7 1/2" (Top)	-	User Load	58 lb/ft	115 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

File Name: SR-326192 188 Hobby Road REVISION DATE REVISION COMMENTS Javelin® Software 6.6.0.97

Design Engine: V8.2.4.1 Data: V8.1.3.6 4/16/2024 9:16:09 AM



# **Member Report**

Label: M5-2 | Design Tag: i722

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

Member Type: Beam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

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