

Member Report

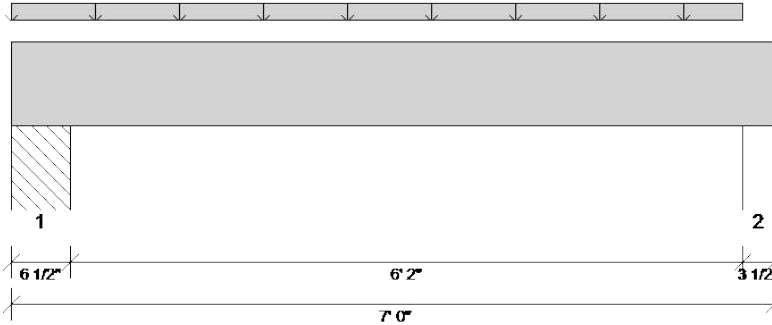
Label: M5-2 | Design Tag: i602

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

Member Type: Beam | Level: 2nd Floor

Design Passed

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	LDF	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 9/16"	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:

Support	Start : End	Req'd Br'g	Source	Maximum Loads to Supports			
				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:

Type	Start : End (Side)	Combine	Source	Maximum Loads on Member			
				Dead	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



Member Report

Label: M5-2 | Design Tag: i602

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

Design Passed

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current literature for installation details and trademark information available at wy.com/woodproducts. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. The product application, input design loads, dimensions and support information have been provided by _____ of _____.

Copyright Weyerhaeuser NR Company. All rights reserved.

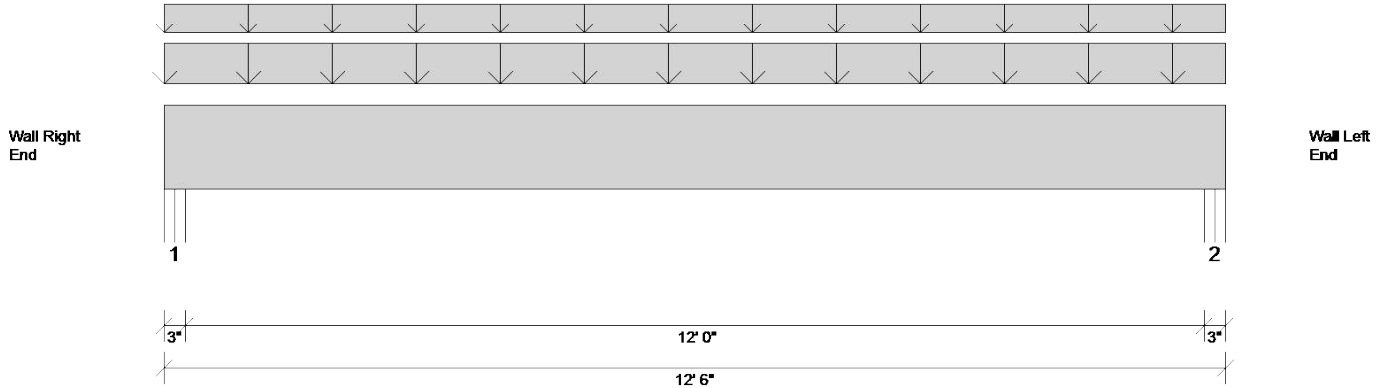


Member Report

Wall: E2 | Label: E2_MHd2-2 | Design Tag: i600
2 piece(s) of 1 3/4" x 11 7/8" 2.0E Microllam® LVL
 Member Type: HeaderAsDroppedBeam | Level: 2nd Floor

Design Passed

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021

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	3888 lb @ 1 1/2"	7875 lb (3")	Passed - 49%	-	1.0 D + 0.75 L + 0.75 S - (0)
Shear	3117 lb @ 1' 2 7/8"	9081 lb	Passed - 34%	1.15	1.0 D + 0.75 L + 0.75 S - (0)
Moment	11668 lb-ft @ 6' 3"	20525 lb-ft	Passed - 57%	1.15	1.0 D + 0.75 L + 0.75 S - (0)
Live Load Deflection	0.19" @ 6' 3"	0.41" L/360	Passed - L/794	-	1.0 D + 0.75 L + 0.75 S - (0)
Total Load Deflection	0.35" @ 6' 3"	0.61" L/240	Passed - L/414	-	1.0 D + 0.75 L + 0.75 S - (0)

Design Notes:

- * Top Edge Bracing (Lu): Top compression edge must be braced at 12-03-00 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.
- * 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
1	0" : 3"	1.5"	Trimmer	1855 lb	1017 lb	-	1688 lb
2	12' 3" : 12' 6"	1.5"	Trimmer	1855 lb	1017 lb	-	1688 lb

Loads:

Type	Start : End (Side)	Combine	Source	Maximum Loads on Member			
				Dead	Floor Live	Roof Live	Snow
Self Weight	0" : 12' 6"	-	Self Weight	11 lb/ft	-	-	-
Uniform	0" : 12' 6" (Top)	-	PLT1 (i70)	204 lb/ft	-	-	270 lb/ft
Uniform	0" : 12' 6" (Top)	-	User Load	81 lb/ft	163 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

Wall: E2 | Label: E2_MHd2-2 | Design Tag: i600

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

Member Type: HeaderAsDroppedBeam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

Design Passed

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current literature for installation details and trademark information available at wy.com/woodproducts. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. The product application, input design loads, dimensions and support information have been provided by _____ of _____.

Copyright Weyerhaeuser NR Company. All rights reserved.



Member Report

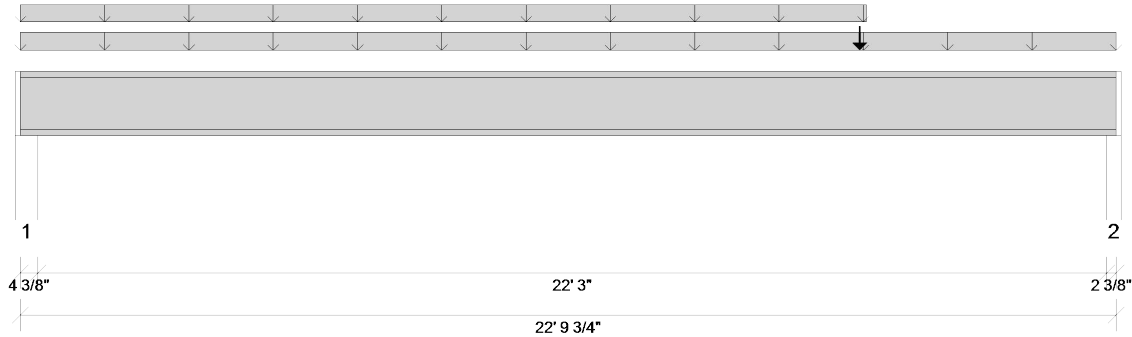
Floor Container: FC1 | Label: T24' | Design Tag: i599

1 piece(s) of 16" TJI® 360 joist

Member Type: FloorJoist | Level: 2nd Floor

Design Passed

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021

Design Methodology: ASD

Member Cut Length: 22' 9 3/4"

Member Drawing Not to Scale

Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	698 lb @ 22' 8 3/8"	1233 lb (2.38")	Passed - 57%	1.00	1.0 D + 1.0 L - (0)
Shear	746 lb @ 4 3/8"	2190 lb	Passed - 34%	1.00	1.0 D + 1.0 L - (0)
Moment	4241 lb-ft @ 11' 6 3/4"	8405 lb-ft	Passed - 50%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.34" @ 11' 4 13/16"	0.56" L/480	Passed - L/800	-	1.0 D + 1.0 L - (0)
Total Load Deflection	0.45" @ 11' 6"	1.12" L/240	Passed - L/595	-	1.0 D + 1.0 L - (0)
TJ Pro Rating	45	40	Passed		

Decking Material & Attachment: 23/32"x48"x96" Weyerhaeuser Edge Gold Panel (0/24) T&G SF - Glue And Nail

Design Notes:

- * Top Edge Bracing (Lu): Top compression edge must be braced at 5-04-00 o/c based on loads applied, unless detailed otherwise.
- * Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 22-10-00 o/c based on loads applied, unless detailed otherwise.
- * Allowed moment does not reflect the adjustment for the beam stability factor.
- * Additional considerations for TJ-Pro™ Rating include ceiling.
- * For TJ-Pro™ Rating calculation the controlling span is considered to be supported by walls.
- * Member design (strength) is based on loads shown in loading section. TJ-Pro™ Rating, if shown, is based on 1-04-00 o.c. spacing.

Supports:

Support	Start : End	Req'd Br'g	Source	Maximum Loads to Supports			
				Dead	Floor Live	Roof Live	Snow
1	0" : 4 3/8"	1.75"	E13(i13)	175 lb	604 lb	-	-
2	22' 7 3/8" : 22' 9 3/4"	1.75"	B2(i22)	218 lb	482 lb	-	-

Loads:

Type	Start : End (Side)	Combine	Source	Maximum Loads on Member			
				Dead	Floor Live	Roof Live	Snow
Uniform	0" : 22' 9 3/4" (Top)	-	FC1 Floor Decking	13 lb/ft	27 lb/ft	-	-
Uniform	0" : 17' 7 7/16" (Top)	-	FC1 Floor Decking	-	27 lb/ft	-	-
Point	17' 5 11/16" (Top)	-	NB2(i55)	86 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.



Member Report

Floor Container: FC1 | Label: T24' | Design Tag: i599

1 piece(s) of 16" TJI® 360 joist

Member Type: FloorJoist | Level: 2nd Floor

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.

* The TJ-Pro™ Rating shown above is based on the default decking for the floor container. Special decking (if used) was not used in determination of the TJ-Pro™ Rating.

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

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current literature for installation details and trademark information available at wy.com/woodproducts. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. The product application, input design loads, dimensions and support information have been provided by _____ of _____.

Copyright Weyerhaeuser NR Company. All rights reserved.



Member Report

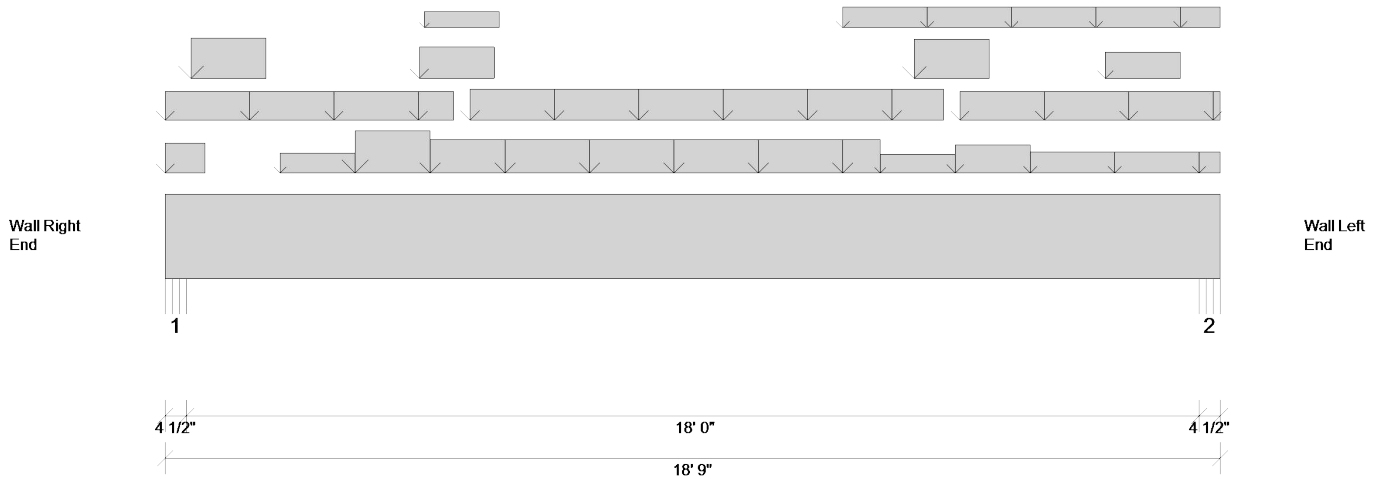
Wall: E13 | Label: E13_MHd1-3 | Design Tag: i595

3 piece(s) of 1 3/4" x 18" 2.0E Microllam® LVL

Member Type: HeaderAsDroppedBeam | Level: 2nd Floor

Design Passed

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021

Design Methodology: ASD

Member Cut Length: 18' 9"

Member Drawing Not to Scale

Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	9172 lb @ 3"	17719 lb (4.5")	Passed - 52%	-	1.0 D + 0.75 L + 0.75 S - (0)
Shear	6635 lb @ 16' 10 1/2"	17955 lb	Passed - 37%	1.00	1.0 D + 1.0 L - (0)
Moment	37855 lb-ft @ 9' 3 15/16"	58130 lb-ft	Passed - 65%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.27" @ 9' 4 9/16"	0.61" L/360	Passed - L/799	-	1.0 D + 0.75 L + 0.75 S - (0)
Total Load Deflection	0.54" @ 9' 4 3/8"	0.91" L/240	Passed - L/407	-	1.0 D + 0.75 L + 0.75 S - (0)

Design Notes:

- * Top Edge Bracing (Lu): Top compression edge must be braced at 8-09-00 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:

Support	Start : End	Req'd Br'g	Source	Maximum Loads to Supports			
				Dead	Floor Live	Roof Live	Snow
1	0" : 4 1/2"	2.33"	Trimmer	4581 lb	3714 lb	-	2386 lb
2	18' 4 1/2" : 18' 9"	2.27"	Trimmer	4373 lb	3701 lb	-	2389 lb

Loads:

Type	Start : End (Side)	Combine	Source	Maximum Loads on Member			
				Dead	Floor Live	Roof Live	Snow
Self Weight	0" : 18' 9"	-	Self Weight	26 lb/ft	-	-	-
Uniform	0" : 5' 1 1/2" (Top)	-	STCa1 (i560)	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 (i560)	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 (i560)	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	-	-



Member Report

Wall: E13 | Label: E13_MHd1-3 | Design Tag: i595

3 piece(s) of 1 3/4" x 18" 2.0E Microllam® LVL

Member Type: HeaderAsDroppedBeam | Level: 2nd Floor

Product is Sufficient for Application and Loads Described

Design Passed

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

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current literature for installation details and trademark information available at wy.com/woodproducts. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. The product application, input design loads, dimensions and support information have been provided by _____ of _____.

Copyright Weyerhaeuser NR Company. All rights reserved.



Member Report

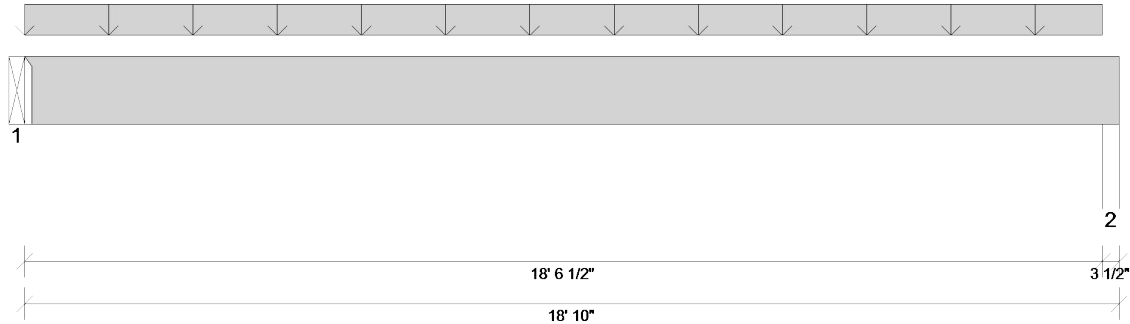
Label: M1-2 | Design Tag: i592

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

Member Type: Beam | Level: 2nd Floor

Design Passed

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021

Design Methodology: ASD

Member Cut Length: 18' 10"

Member Drawing Not to Scale

Design Results:	<u>Design @ Location</u>	<u>Allowed</u>	<u>Result</u>	<u>LDF</u>	<u>Load Combination - (Load Group)</u>
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:

<u>Support</u>	<u>Start : End</u>	<u>Req'd Br'g</u>	<u>Source</u>	<u>Maximum Loads to Supports</u>			
				<u>Dead</u>	<u>Floor Live</u>	<u>Roof Live</u>	<u>Snow</u>
1	0" : -	1.5"	M2-2(i579)	1005 lb	1758 lb	-	-
2	18' 6 1/2" : 18' 10"	1.5"	B6(i26)	1007 lb	1758 lb	-	-

Loads:

<u>Type</u>	<u>Start : End (Side)</u>	<u>Combine</u>	<u>Source</u>	<u>Maximum Loads on Member</u>			
				<u>Dead</u>	<u>Floor Live</u>	<u>Roof Live</u>	<u>Snow</u>
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:

<u>Support</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Nailing Requirements</u>			<u>Min. Seat Length</u>	<u>Other Information</u>
			<u>Top</u>	<u>Face</u>	<u>Member</u>		
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



Member Report

Label: M1-2 | Design Tag: i592

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

Design Passed

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current literature for installation details and trademark information available at wy.com/woodproducts. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. The product application, input design loads, dimensions and support information have been provided by _____ of _____.

Copyright Weyerhaeuser NR Company. All rights reserved.



Member Report

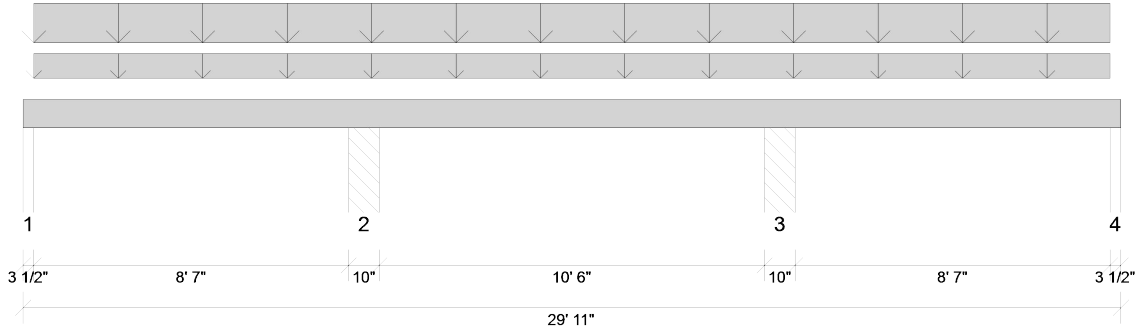
Label: M4-2 | Design Tag: i591

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

Member Type: Beam | Level: 2nd Floor

Design Passed

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:

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"	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:

Type	Start : End (Side)	Combine	Source	Maximum Loads on Member			
				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



Member Report

Label: M4-2 | Design Tag: i591

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

Design Passed

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current literature for installation details and trademark information available at wy.com/woodproducts. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. The product application, input design loads, dimensions and support information have been provided by _____ of _____.

Copyright Weyerhaeuser NR Company. All rights reserved.



Member Report

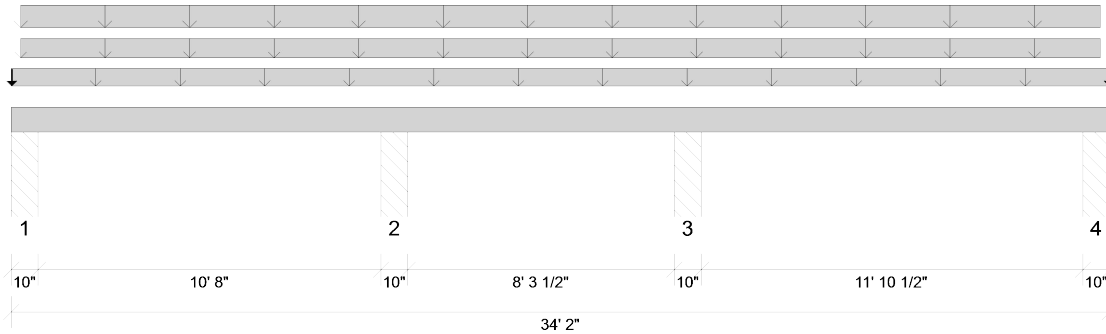
Label: M3-2 | Design Tag: i589

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

Member Type: Beam | Level: 2nd Floor

Design Passed

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.

* 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
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:

Type	Start : End (Side)	Combine	Source	Maximum Loads on Member			
				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:

* 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.



Member Report

Label: M3-2 | Design Tag: i589

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

Design Passed

* 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

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current literature for installation details and trademark information available at wy.com/woodproducts. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. The product application, input design loads, dimensions and support information have been provided by _____ of _____.

Copyright Weyerhaeuser NR Company. All rights reserved.



Member Report

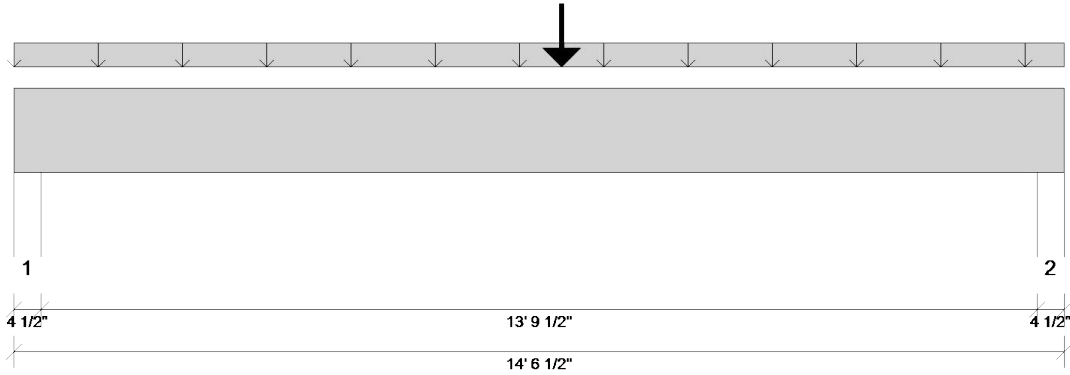
Label: M2-2 | Design Tag: i579

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

Member Type: Beam | Level: 2nd Floor

Design Passed

Product is Sufficient for Application and Loads Described



Building Code: IBC 2021

Design Methodology: ASD

Member Cut Length: 14' 6 1/2"

Member Drawing Not to Scale

Design Results:	Design @ Location	Allowed	Result	LDF	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:

Support	Start : End	Req'd Br'g	Source	Maximum Loads to Supports			
				Dead	Floor Live	Roof Live	Snow
1	0" : 4 1/2"	1.5"	B10(i35)	966 lb	1614 lb	-	-
2	14' 2" : 14' 6 1/2"	1.5"	B8(i36)	1010 lb	1692 lb	-	-

Loads:

Type	Start : End (Side)	Combine	Source	Maximum Loads on Member			
				Dead	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)	-	M1-2(i592)	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



Member Report

Label: M2-2 | Design Tag: i579

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

Design Passed

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current literature for installation details and trademark information available at wy.com/woodproducts. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. The product application, input design loads, dimensions and support information have been provided by _____ of _____.

Copyright Weyerhaeuser NR Company. All rights reserved.



Member Report

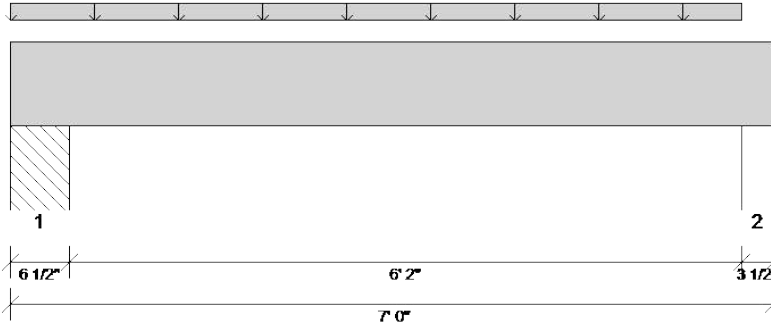
Label: M5-2 | Design Tag: i564

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

Member Type: Beam | Level: 2nd Floor

Design Passed

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	LDF	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 9/16"	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:

Support	Start : End	Req'd Br'g	Source	Maximum Loads to Supports			
				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:

Type	Start : End (Side)	Combine	Source	Maximum Loads on Member			
				Dead	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



Member Report

Label: M5-2 | Design Tag: i564

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

Design Passed

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Refer to current literature for installation details and trademark information available at wy.com/woodproducts. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. The product application, input design loads, dimensions and support information have been provided by _____ of _____.

Copyright Weyerhaeuser NR Company. All rights reserved.

