

Graphical Illustration - Not To Scale  
 Member Cut Length - 23'-4 1/2"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'-6 1/4"	Bottom:	22'-11 1/2"		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	3'-6 1/2"	7536.00 lb ft	13304.57 lb ft	Passed - 57%	1.00	D + L
Critical Moment (Neg)	6'-10"	-7194.20 lb ft	11227.37 lb ft	Passed - 64%	1.00	D + L
Critical Shear	5'-11 1/4"	5456.21 lb	6259.17 lb	Passed - 87%	1.00	D + L
Live Load Deflection	15'-10 7/8"	0'-1/16"	0'-3/4" (L/360)	Passed - L/530	-	L
Total Load Deflection	15'-10 1/8"	0'-1/16"	0'-1" (L/240)	Passed - L/534	-	D + L
Max. Reaction			<u>Supported Mt</u> <u>Supporting Mt</u>			
	0'-9 1/2"	6216.17 lb	27562.68 lb    26643.92 lb	Passed - 23%	1.00	D + L
	6'-10"	9154.51 lb	18375.00 lb    17762.50 lb	Passed - 52%	1.00	D + L
	7'-11"	6752.33 lb	18375.00 lb    17762.50 lb	Passed - 38%	1.00	D + L
	7'-11"	-249.84 lb	18375.00 lb    -	Passed - 1%	1.00	D + L
	14'-1/2"	9587.77 lb	18375.00 lb    17762.50 lb	Passed - 54%	1.00	D + L
	15'-1 1/2"	1198.77 lb	18375.00 lb    17762.50 lb	Passed - 7%	1.00	D + L
	18'-1/2"	5373.33 lb	18375.00 lb    17762.50 lb	Passed - 30%	1.00	D + L
	19'-1 1/2"	3552.41 lb	18375.00 lb    17762.50 lb	Passed - 20%	1.00	D + L
	22'-7"	1835.65 lb	27562.50 lb    26643.75 lb	Passed - 7%	1.00	D + L

**Design Notes:**

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Self Weight	0'	23'-4 1/2"	Self Weight	9 lb/ft	-	-	-
Uniform	8'-4 1/16"	13'-1 11/16"	Smoothed Load	189 lb/ft	720 lb/ft	-	-
Uniform	12'-10 1/2"	13'-10"	LVL-BP(i1279)	351 lb/ft	838 lb/ft	3 lb/ft	2 lb/ft
Point	1'-4 3/16"	1'-4 3/16"	-	968.00 lb	2609.00/-364.00 lb	8.00 lb	4.00 lb
Point	2'-8 7/8"	2'-8 7/8"	J30-1(i1158)	489.00 lb	1152.00 lb	-	-
Point	3'-6 1/2"	3'-6 1/2"	LVL-BP(i1281)	556.00 lb	1457.00/-364.00 lb	10.00 lb	4.00 lb
Point	4'-4 1/16"	4'-4 1/16"	J30-1(i1179)	487.00 lb	1152.00 lb	-	-
Point	5'-8 3/4"	5'-8 3/4"	-	859.00 lb	2609.00/-364.00 lb	10.00 lb	4.00 lb
Point	7'-6 1/2"	7'-6 1/2"	-	880.00 lb	2609.00/-364.00 lb	12.00 lb	5.00 lb
Point	9'-6 1/2"	9'-6 1/2"	LVL-BP(i1282)	556.00 lb	1457.00/-364.00 lb	9.00 lb	4.00 lb
Point	11'-6 1/2"	11'-6 1/2"	LVL-BP(i1273)	557.00 lb	1457.00/-364.00 lb	11.00 lb	5.00 lb
Point	13'-10 5/8"	13'-10 5/8"	-	520.00 lb	1157.00/-279.00 lb	1.00 lb	-
Point	14'-6 1/4"	14'-6 1/4"	-	954.00 lb	1109.00/-92.00 lb	7.00 lb	3.00 lb
Point	15'-6 1/2"	15'-6 1/2"	J32-1(i1161)	506.00 lb	1100.00 lb	-	-
Point	17'-1 11/16"	17'-1 11/16"	J32-1(i1168)	465.00 lb	1258.00 lb	-	-
Point	18'-6 13/16"	18'-6 13/16"	-	2130.00 lb	3920.00/-84.00 lb	21.00/-2.00 lb	9.00 lb
Point	20'-4 1/16"	20'-4 1/16"	J32-1(i1173)	302.00 lb	1209.00 lb	-	-
Point	21'-11 5/16"	21'-11 5/16"	J32-1(i1182)	302.00 lb	1209.00 lb	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'-10 1/2"	-	1763.00 lb	4226.00/-1532.00 lb	12.00 lb	5.00 lb
++>	0'-1 1/4"	0'-1 1/4"	W9(i1)	420.00 lb	1006.00/-365.00 lb	3.00 lb	1.00 lb
++>	0'-6 1/2"	0'-6 1/2"	PBO4(i20)	1343.00 lb	3220.00/-1167.00 lb	9.00 lb	4.00 lb
2	6'-8 1/2"	8'-1/2"	PBO1(i17)	4393.00 lb	14038.00/-1397.00 lb	72.00/-20.00 lb	17.00 lb

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Actual field conditions may differ from those shown. These results should be reviewed by a qualified design professional.



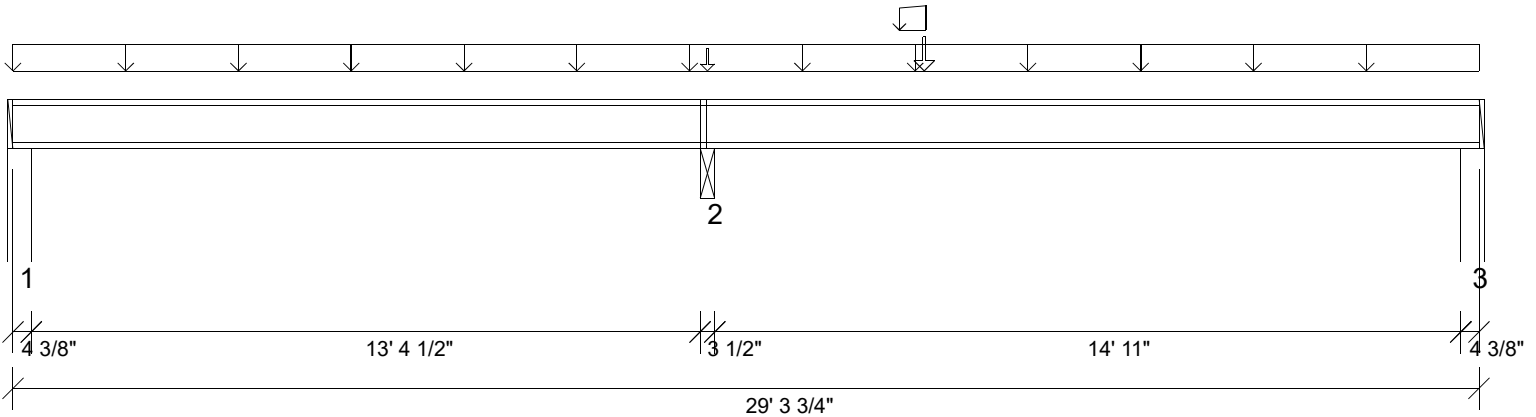
**Member: 2 - 2.0 RigidLam LVL 1-3/4 x 9-1/4**

**Status: Design Passed**

==>	6'- 10"	6'- 10"	PBO1(i17)	3399.00 lb	7724.00/-940.00 lb	39.00/-9.00 lb	10.00 lb
==>	7'- 11"	7'- 11"	PBO1(i17)	994.00 lb	6314.00/-457.00 lb	33.00/-11.00 lb	7.00 lb
3	13'- 11"	15'- 3"	PBO2(i18)	3563.00 lb	9474.00/-1118.00 lb	33.00/-14.00 lb	13.00/-5.00 lb
==>	14'- 1/2"	14'- 1/2"	PBO2(i18)	3563.00 lb	7537.00/-1118.00 lb	29.00 lb	13.00 lb
==>	15'- 1 1/2"	15'- 1 1/2"	PBO2(i18)	-	1937.00 lb	4.00/-14.00 lb	-5.00 lb
4	17'- 11"	19'- 3"	PBO3(i19)	2934.00 lb	6934.00/-133.00 lb	23.00/-2.00 lb	9.00 lb
==>	18'- 1/2"	18'- 1/2"	PBO3(i19)	1543.00 lb	2514.00/-108.00 lb	14.00/-1.00 lb	6.00 lb
==>	19'- 1 1/2"	19'- 1 1/2"	PBO3(i19)	1391.00 lb	4420.00/-25.00 lb	9.00/-1.00 lb	3.00 lb
5	22'- 6"	23'- 4 1/2"	-	311.00 lb	1281.00/-749.00 lb	-	-
++>	22'- 10"	22'- 10"	PBO5(i21)	237.00 lb	976.00/-571.00 lb	-	-
++>	23'- 3 1/4"	23'- 3 1/4"	W15(i15)	74.00 lb	305.00/-178.00 lb	-	-

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
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Graphical Illustration - Not To Scale  
 Member Cut Length - 29' 3 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	22'- 3 5/8"	1805.64 lb ft	3545.02 lb ft	Passed - 51%	1.00	D + L
Critical Moment (Neg)	13'- 10 5/8"	-2250.37 lb ft	3545.02 lb ft	Passed - 63%	1.00	D + L
Critical Shear	14'- 7/16"	828.82 lb	1420.00 lb	Passed - 58%	1.00	D + L
Live Load Deflection	21'- 10 13/16"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	21'- 10 9/16"	0'- 3/16"	0'- 1" (L/240)	Passed - L/940	-	D + L
Max. Reaction			Supported Mt/ Supporting Mt/			
	0'- 3 3/8"	479.92 lb	1420.00 lb 6179.65 lb	Passed - 34%	1.00	D + L
	13'- 10 5/8"	1564.92 lb	2755.00 lb 6562.53 lb	Passed - 57%	1.00	D + L
	29'- 3/8"	568.18 lb	1420.00 lb 6179.67 lb	Passed - 40%	1.00	D + L

**Loading:**

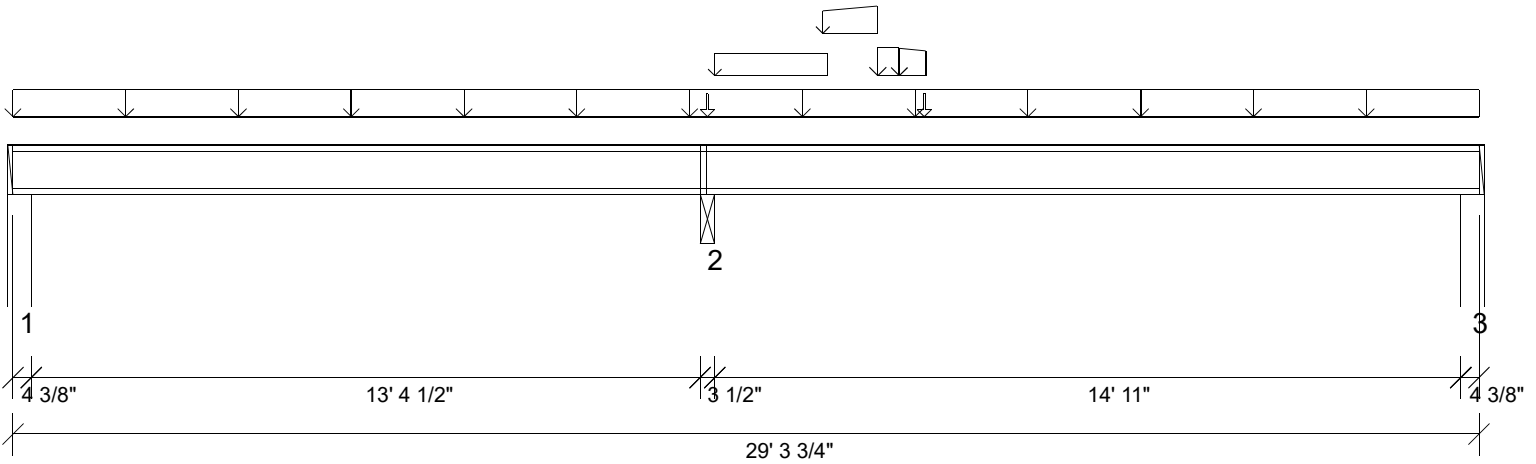
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	29'- 3 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Tapered	17'- 8 5/8"	18'- 3"	FC1 Floor Material	14 To 48 lb/ft	-	-	-
Point	13'- 10 5/8"	13'- 10 5/8"	4(i90)	15.00 lb	-	-	-
Point	18'- 2 5/8"	18'- 2 5/8"	-	105.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W8(i11)	72.00 lb	408.00/-71.00 lb	-	-
2	13'- 8 7/8"	14'- 3/8"	DB1-2(i1171)	413.00 lb	1152.00 lb	-	-
3	28'- 11 3/8"	29'- 3 3/4"	W10(i14)	123.00 lb	445.00/-46.00 lb	-	-

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
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- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.



Graphical Illustration - Not To Scale  
 Member Cut Length - 29' 3 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination	
Critical Moment (Pos)	22'- 3 3/16"	1825.60 lb ft	3545.02 lb ft	Passed - 51%	1.00	D + L	
Critical Moment (Neg)	13'- 10 5/8"	-2303.56 lb ft	3545.02 lb ft	Passed - 65%	1.00	D + L	
Critical Shear	14'- 7/16"	899.01 lb	1420.00 lb	Passed - 63%	1.00	D + L	
Live Load Deflection	21'- 10 7/8"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L	
Total Load Deflection	21'- 10 3/16"	0'- 3/16"	0'- 1" (L/240)	Passed - L/923	-	D + L	
Max. Reaction			<u>Supported Mt/</u>	<u>Supporting Mt/</u>			
	0'- 3 3/8"	476.21 lb	1420.00 lb	6179.65 lb	Passed - 34%	1.00	D + L
	0'- 3 3/8"	-2.99 lb	1420.00 lb	-	Passed - 0%	1.00	D + L
	13'- 10 5/8"	1639.25 lb	2755.00 lb	6562.44 lb	Passed - 60%	1.00	D + L
	29'- 3/8"	571.23 lb	1420.00 lb	6179.67 lb	Passed - 40%	1.00	D + L

**Loading:**

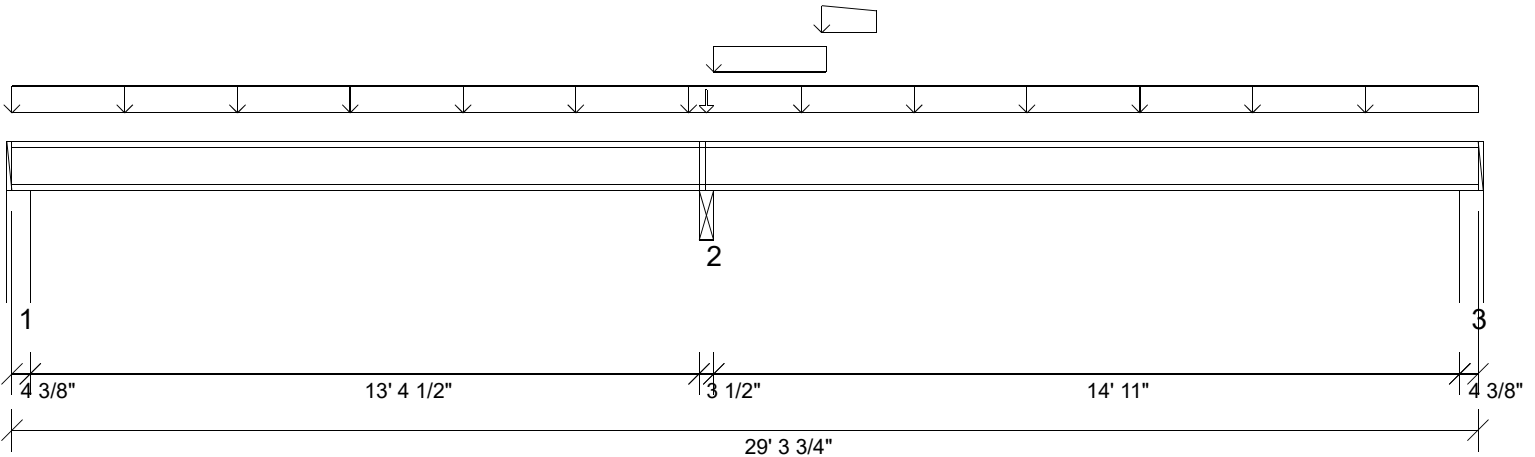
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	29'- 3 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Uniform	14'- 3/8"	16'- 3 3/8"	FC1 Floor Material	15 lb/ft	-	-	-
Uniform	17'- 3 1/2"	17'- 8 1/2"	13(i98)	103 lb/ft	-	-	-
Tapered	16'- 2 5/16"	17'- 3 5/16"	FC1 Floor Material	19 To 89 lb/ft	-	-	-
Tapered	17'- 8 5/8"	18'- 3"	FC1 Floor Material	89 To 55 lb/ft	-	-	-
Point	13'- 10 5/8"	13'- 10 5/8"	4(i90)	15.00 lb	-	-	-
Point	18'- 2 5/8"	18'- 2 5/8"	FC1 Floor Material	20.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W8(i11)	68.00 lb	408.00/-71.00 lb	-	-
2	13'- 8 7/8"	14'- 3/8"	DB1-2(i1171)	489.00 lb	1152.00 lb	-	-
3	28'- 11 3/8"	29'- 3 3/4"	W10(i14)	126.00 lb	445.00/-46.00 lb	-	-

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Graphical Illustration - Not To Scale  
 Member Cut Length - 29' 3 3/4"  
 MemberPitch - 0/12

**Design Information:**

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Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	22'- 5 5/16"	1730.61 lb ft	3545.02 lb ft	Passed - 49%	1.00	D + L
Critical Moment (Neg)	13'- 10 5/8"	-2214.61 lb ft	3545.02 lb ft	Passed - 62%	1.00	D + L
Critical Shear	14'- 7/16"	904.85 lb	1420.00 lb	Passed - 64%	1.00	D + L
Live Load Deflection	21'- 10 13/16"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	21'- 10 15/16"	0'- 3/16"	0'- 1" (L/240)	Passed - L/984	-	D + L
Max. Reaction			<u>Supported MtI</u> <u>Supporting MtI</u>			
	0'- 3 3/8"	482.75 lb	1420.00 lb    6179.65 lb	Passed - 34%	1.00	D + L
	13'- 10 5/8"	1638.72 lb	2755.00 lb    6562.44 lb	Passed - 59%	1.00	D + L
	29'- 3/8"	557.01 lb	1420.00 lb    6179.67 lb	Passed - 39%	1.00	D + L

**Loading:**

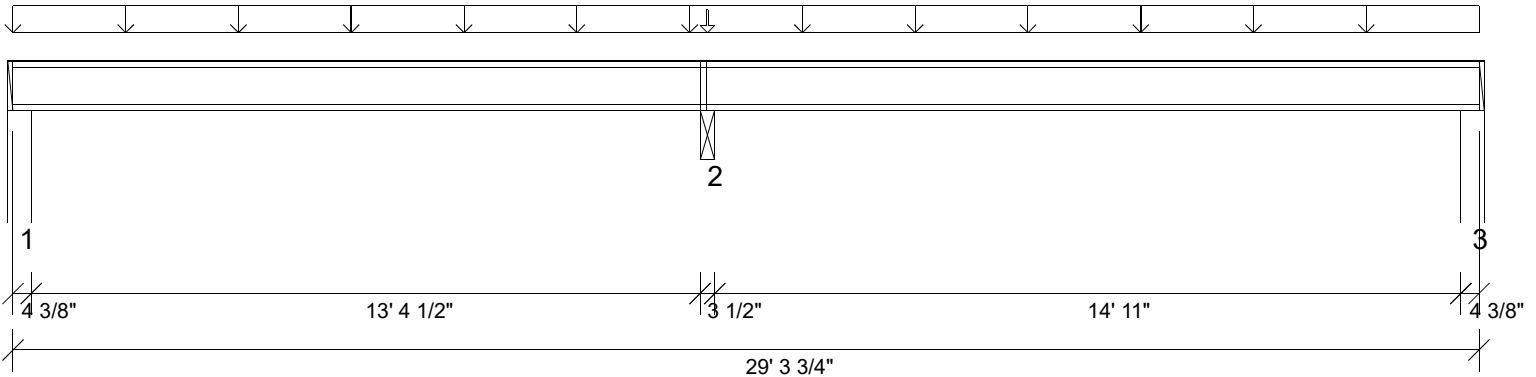
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	29'- 3 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Uniform	14'- 3/8"	16'- 3 3/8"	FC1 Floor Material	58 lb/ft	-	-	-
Tapered	16'- 2 5/16"	17'- 3 5/16"	FC1 Floor Material	85 To 14 lb/ft	-	-	-
Point	13'- 10 5/8"	13'- 10 5/8"	4(i90)	15.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W8(i11)	75.00 lb	408.00/-71.00 lb	-	-
2	13'- 8 7/8"	14'- 3/8"	DB1-2(i1171)	487.00 lb	1152.00 lb	-	-
3	28'- 11 3/8"	29'- 3 3/4"	W10(i14)	111.00 lb	445.00/-46.00 lb	-	-

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 Member Cut Length - 29' 3 3/4"  
 MemberPitch - 0/12

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Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	22'- 7 1/8"	1651.98 lb ft	3545.02 lb ft	Passed - 47%	1.00	D + L
Critical Moment (Neg)	13'- 10 5/8"	-2081.60 lb ft	3545.02 lb ft	Passed - 59%	1.00	D + L
Critical Shear	14'- 7/16"	730.84 lb	1420.00 lb	Passed - 51%	1.00	D + L
Live Load Deflection	21'- 10 7/8"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	21'- 11 15/16"	0'- 3/16"	0'- 1" (L/240)	Passed - L/999	-	D + L
Max. Reaction			Supported Mt   Supporting Mt			
	0'- 3 3/8"	492.52 lb	1420.00 lb   6179.65 lb	Passed - 35%	1.00	D + L
	13'- 10 5/8"	1454.71 lb	2755.00 lb   6562.44 lb	Passed - 53%	1.00	D + L
	29'- 3/8"	544.93 lb	1420.00 lb   6179.50 lb	Passed - 38%	1.00	D + L

**Loading:**

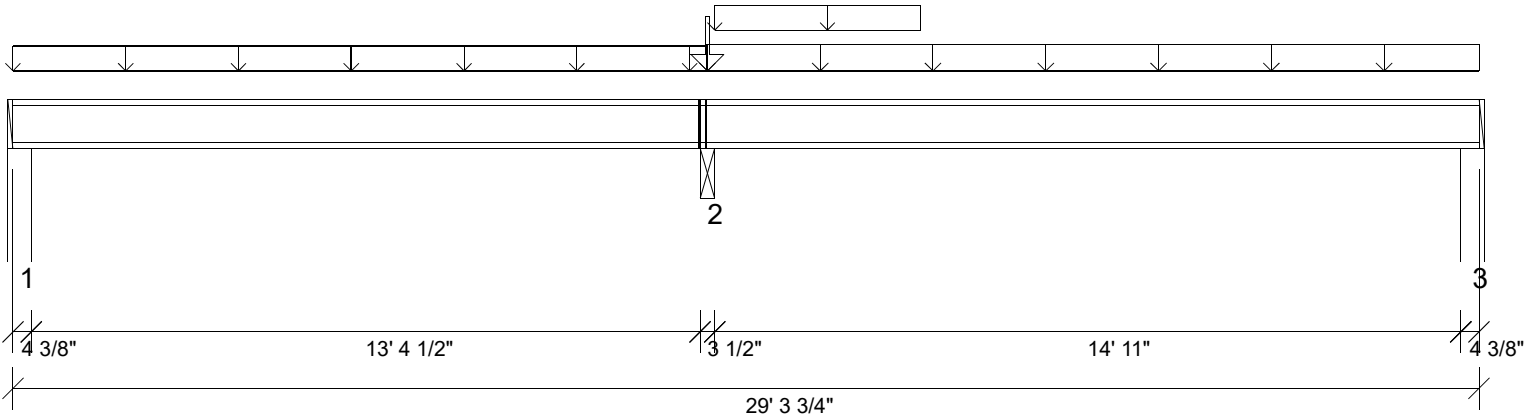
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	29'- 3 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Point	13'- 10 5/8"	13'- 10 5/8"	4(i90)	15.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W8(i11)	84.00 lb	408.00/-71.00 lb	-	-
2	13'- 8 7/8"	14'- 3/8"	DB1-2(i1171)	303.00 lb	1152.00 lb	-	-
3	28'- 11 3/8"	29'- 3 3/4"	W10(i14)	100.00 lb	445.00/-46.00 lb	-	-

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 Member Cut Length - 29'- 3 3/4"  
 MemberPitch - 0/12

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		Unbraced Length	Top: 0'	Bottom:	0'		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination	
Critical Moment (Pos)	22'- 4 1/16"	1787.63 lb ft	3545.02 lb ft	Passed - 50%	1.00	D + L	
Critical Moment (Neg)	13'- 10 5/8"	-1966.71 lb ft	3545.02 lb ft	Passed - 55%	1.00	D + L	
Critical Shear	14'- 7/16"	886.54 lb	1420.00 lb	Passed - 62%	1.00	D + L	
Live Load Deflection	21'- 10 7/8"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L	
Total Load Deflection	21'- 10 5/16"	0'- 3/16"	0'- 1" (L/240)	Passed - L/944	-	D + L	
Max. Reaction			<u>Supported Mt</u>	<u>Supporting Mt</u>			
	0'- 3 3/8"	318.01 lb	1420.00 lb	6179.65 lb	Passed - 22%	1.00	D + L
	0'- 3 3/8"	-31.52 lb	1420.00 lb	-	Passed - 2%	1.00	D + L
	13'- 10 5/8"	1676.92 lb	2755.00 lb	6562.44 lb	Passed - 61%	1.00	D + L
	29'- 3/8"	565.60 lb	1420.00 lb	6179.67 lb	Passed - 40%	1.00	D + L

**Loading:**

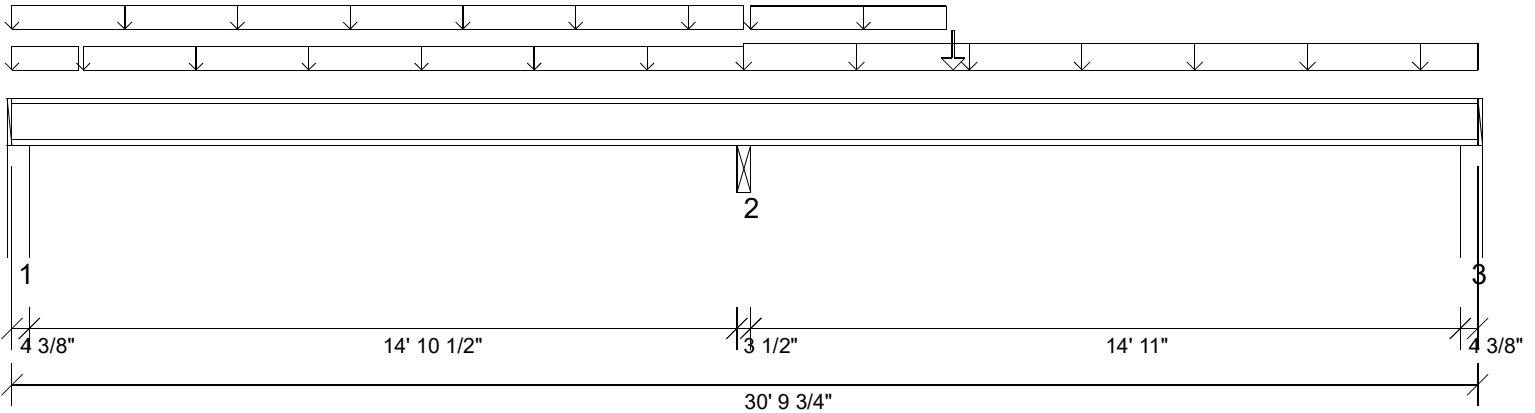
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	13'- 10 5/8"	FC1 Floor Material	11 lb/ft	44 lb/ft	-	-
Uniform	13'- 10 5/8"	29'- 3 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Uniform	14'- 3/8"	18'- 1 11/16"	FC1 Floor Material	47 lb/ft	-	-	-
Point	13'- 10 5/8"	13'- 10 5/8"	4(i90)	88.00 lb	175.00 lb	1.00 lb	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W8(i11)	40.00 lb	279.00/-71.00 lb	-	-
2	13'- 8 7/8"	14'- 3/8"	DB1-2(i1171)	520.00 lb	1157.00 lb	1.00 lb	-
3	28'- 11 3/8"	29'- 3 3/4"	W10(i14)	120.00 lb	445.00/-31.00 lb	-	-

**Errors, Warnings & Notes:**

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- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.



Graphical Illustration - Not To Scale  
 Member Cut Length - 30' 9 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>	Unbraced Length Top:	0'
				Bottom:	0'		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination	
Critical Moment (Pos)	23'- 6 13/16"	1934.08 lb ft	3545.02 lb ft	Passed - 55%	1.00	D + L	
Critical Moment (Neg)	15'- 4 5/8"	-2358.19 lb ft	3545.02 lb ft	Passed - 67%	1.00	D + L	
Critical Shear	15'- 6 7/16"	943.45 lb	1420.00 lb	Passed - 66%	1.00	D + L	
Live Load Deflection	23'- 4 1/2"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L	
Total Load Deflection	23'- 3 3/8"	0'- 3/16"	0'- 1" (L/240)	Passed - L/863	-	D + L	
Max. Reaction			<u>Supported Mt</u>	<u>Supporting Mt</u>			
	0'- 3 3/8"	427.23 lb	1420.00 lb	6179.65 lb	Passed - 30%	1.00	D + L
	0'- 3 3/8"	-2.28 lb	1420.00 lb	-	Passed - 0%	1.00	D + L
	15'- 4 5/8"	1606.08 lb	2755.00 lb	6562.44 lb	Passed - 58%	1.00	D + L
	30'- 6 3/8"	587.04 lb	1420.00 lb	6179.67 lb	Passed - 41%	1.00	D + L

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	15'- 4 5/8"	FC1 Floor Material	8 lb/ft	32 lb/ft	-	-
Uniform	0'	1'- 4 7/8"	FC1 Floor Material	6 lb/ft	23 lb/ft	-	-
Uniform	1'- 6"	15'- 4 5/8"	FC1 Floor Material	5 lb/ft	20 lb/ft	-	-
Uniform	15'- 4 5/8"	30'- 9 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Uniform	15'- 6 3/8"	19'- 7 11/16"	FC1 Floor Material	26 lb/ft	-	-	-
Point	19'- 9 7/16"	19'- 9 7/16"	10(i97)	143.00 lb	-	-	-

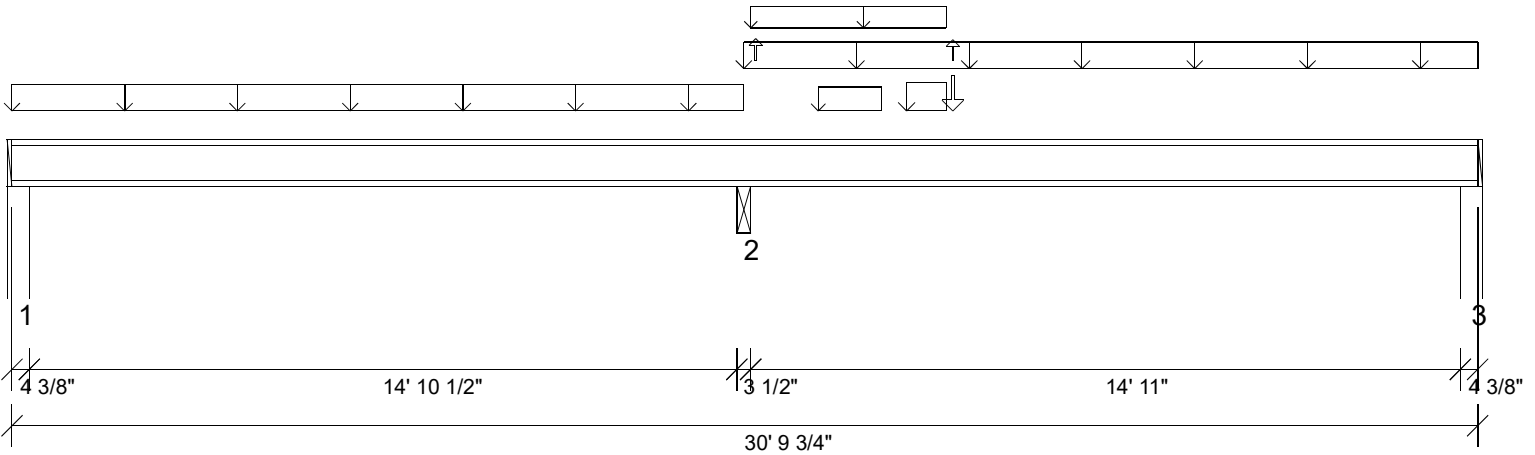
**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W6(i4)	59.00 lb	369.00/-61.00 lb	-	-
2	15'- 2 7/8"	15'- 6 3/8"	DB1-2(i1171)	506.00 lb	1100.00 lb	-	-
3	30'- 5 3/8"	30'- 9 3/4"	W10(i14)	139.00 lb	448.00/-49.00 lb	-	-

**Errors, Warnings & Notes:**

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- \* 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.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.





Graphical Illustration - Not To Scale  
 Member Cut Length - 30' 9 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	23'- 5 7/8"	1977.63 lb ft	3545.02 lb ft	Passed - 56%	1.00	D + L
Critical Moment (Neg)	15'- 4 5/8"	-2515.82 lb ft	3545.02 lb ft	Passed - 71%	1.00	D + L
Critical Shear	15'- 6 7/16"	999.74 lb	1420.00 lb	Passed - 70%	1.00	D + L
Live Load Deflection	23'- 3 7/16"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	23'- 3 1/16"	0'- 3/16"	0'- 1" (L/240)	Passed - L/840	-	D + L
Max. Reaction			Supported Mt/ Supporting Mt/			
	0'- 3 3/8"	474.13 lb	1420.00 lb / 6179.65 lb	Passed - 33%	1.00	D + L
	15'- 4 5/8"	1723.41 lb	2755.00 lb / 6562.44 lb	Passed - 63%	1.00	D + L
	30'- 6 3/8"	593.29 lb	1420.00 lb / 6179.57 lb	Passed - 42%	1.00	D + L

**Loading:**

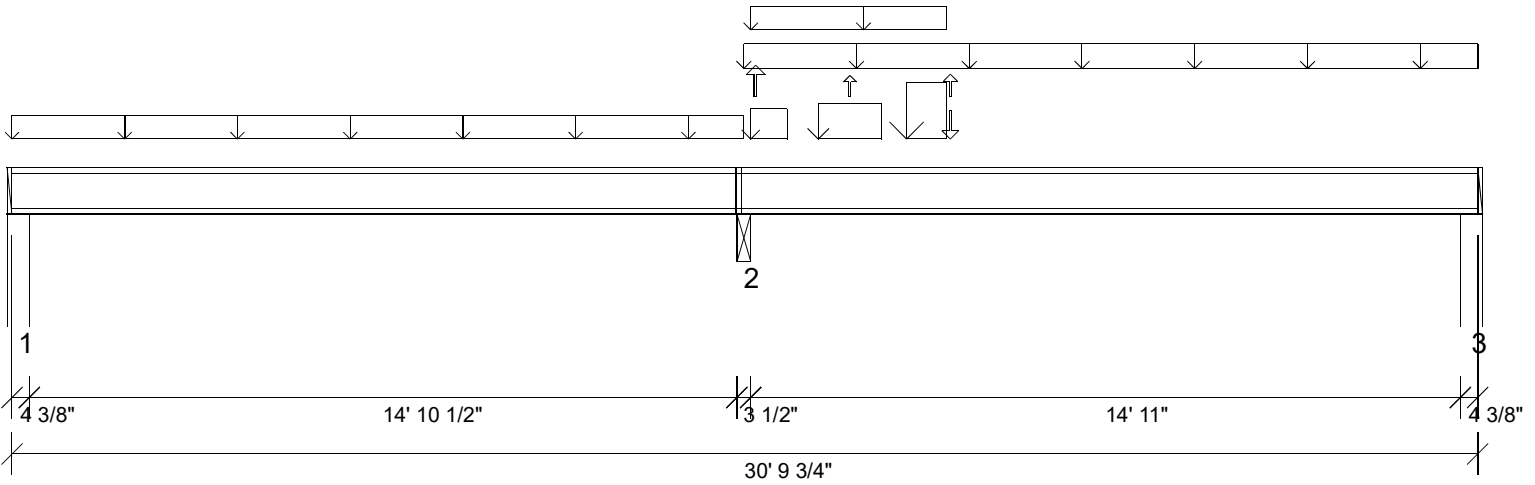
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	15'- 4 5/8"	FC1 Floor Material	14 lb/ft	58 lb/ft	-	-
Uniform	15'- 4 5/8"	30'- 9 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Uniform	15'- 6 3/8"	19'- 7 11/16"	FC1 Floor Material	8 lb/ft	-	-	-
Uniform	16'- 11 7/16"	18'- 3 3/8"	FC1 Floor Material	8 lb/ft	32 lb/ft	-	-
Uniform	18'- 9 11/16"	19'- 7 11/16"	FC1 Floor Material	34 lb/ft	67 lb/ft	-	-
Point	15'- 7 5/8"	15'- 7 5/8"	FC1 Floor Material	-	-11.00 lb	-	-
Point	19'- 9 3/8"	19'- 9 3/8"	-	117.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W6(i4)	70.00 lb	404.00/-68.00 lb	-	-
2	15'- 2 7/8"	15'- 6 3/8"	DB1-2(i1171)	465.00 lb	1258.00/-11.00 lb	-	-
3	30'- 5 3/8"	30'- 9 3/4"	W10(i14)	131.00 lb	462.00/-54.00 lb	-	-

**Errors, Warnings & Notes:**

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Graphical Illustration - Not To Scale  
 Member Cut Length - 30'- 9 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	21'- 7 1/4"	3184.10 lb ft	3545.02 lb ft	Passed - 90%	1.00	D + L
Critical Moment (Neg)	15'- 4 5/8"	-3383.76 lb ft	3545.02 lb ft	Passed - 95%	1.00	D + L
Critical Shear	15'- 6 7/16"	2112.11 lb	1420.00 lb	Failed - 149%	1.00	D + L
Live Load Deflection	22'- 10 3/4"	0'- 1/4"	0'- 3/4" (L/480)	Passed - L/733	-	L
Total Load Deflection	22'- 9 13/16"	0'- 3/8"	0'- 1" (L/240)	Passed - L/506	-	D + L
Max. Reaction			Supported Mt/ Supporting Mt/			
	0'- 3 3/8"	274.91 lb	1420.00 lb / 6179.65 lb	Passed - 19%	1.00	D + L
	0'- 3 3/8"	-112.17 lb	1420.00 lb / -	Passed - 8%	1.00	D + L
	15'- 4 5/8"	2710.42 lb	2755.00 lb / 6562.44 lb	Passed - 98%	1.00	D + L
	30'- 6 3/8"	744.35 lb	1420.00 lb / 6179.67 lb	Passed - 52%	1.00	D + L

**Loading:**

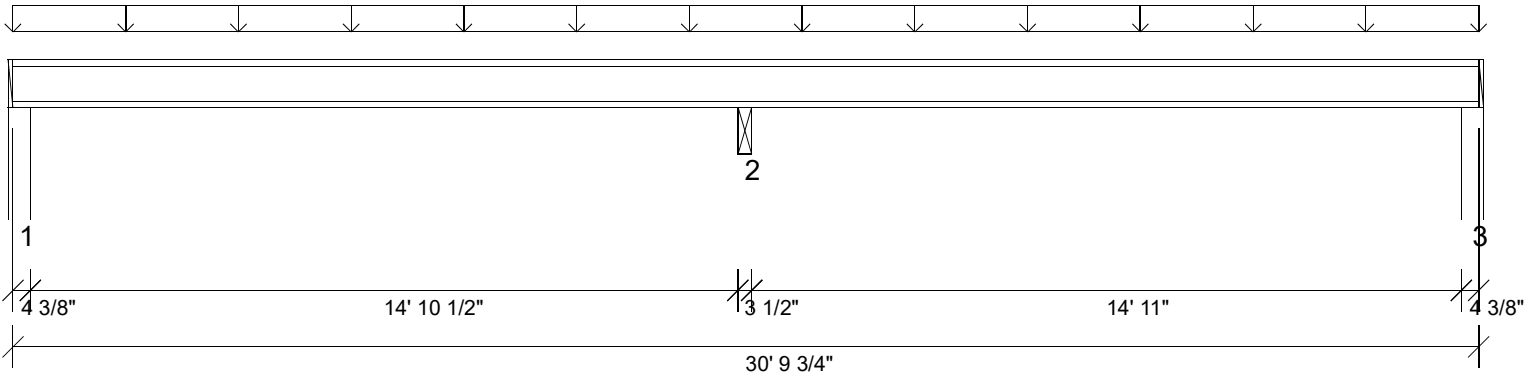
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	15'- 4 5/8"	FC1 Floor Material	10 lb/ft	38 lb/ft	-	-
Uniform	15'- 4 5/8"	30'- 9 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Uniform	15'- 6 3/8"	19'- 7 11/16"	FC1 Floor Material	65 lb/ft	-	-	-
Uniform	15'- 6 3/8"	16'- 3 5/8"	FC1 Floor Material	51 lb/ft	158 lb/ft	-	-
Uniform	16'- 11 7/16"	18'- 3 3/8"	FC1 Floor Material	67 lb/ft	258 lb/ft	-	-
Uniform	18'- 9 11/16"	19'- 7 11/16"	FC1 Floor Material	274 lb/ft	536 lb/ft	7 lb/ft	3 lb/ft
Point	15'- 7 5/8"	15'- 7 5/8"	FC1 Floor Material	-	-84.00 lb	-	-
Point	17'- 7 7/16"	17'- 7 7/16"	FC1 Floor Material	-	-	-2.00 lb	-
Point	19'- 8 3/4"	19'- 8 3/4"	-	56.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W6(i4)	8.00 lb	267.00/-120.00 lb	-	-
2	15'- 2 7/8"	15'- 6 3/8"	DB1-2(i1171)	881.00 lb	1828.00/-84.00 lb	6.00/-2.00 lb	2.00 lb
3	30'- 5 3/8"	30'- 9 3/4"	W10(i14)	188.00 lb	558.00/-36.00 lb	1.00 lb	-

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Graphical Illustration - Not To Scale  
 Member Cut Length - 30'- 9 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	24'- 1 1/16"	1655.03 lb ft	3545.02 lb ft	Passed - 47%	1.00	D + L
Critical Moment (Neg)	15'- 4 5/8"	-2285.05 lb ft	3545.02 lb ft	Passed - 64%	1.00	D + L
Critical Shear	15'- 6 7/16"	744.27 lb	1420.00 lb	Passed - 52%	1.00	D + L
Live Load Deflection	23'- 4 1/2"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	23'- 5 7/8"	0'- 3/16"	0'- 1" (L/240)	Passed - L/999	-	D + L
Max. Reaction			Supported Mt   Supporting Mt			
	0'- 3 3/8"	544.00 lb	1420.00 lb   6179.65 lb	Passed - 38%	1.00	D + L
	15'- 4 5/8"	1511.46 lb	2755.00 lb   6562.53 lb	Passed - 55%	1.00	D + L
	30'- 6 3/8"	545.41 lb	1420.00 lb   6179.57 lb	Passed - 38%	1.00	D + L

**Loading:**

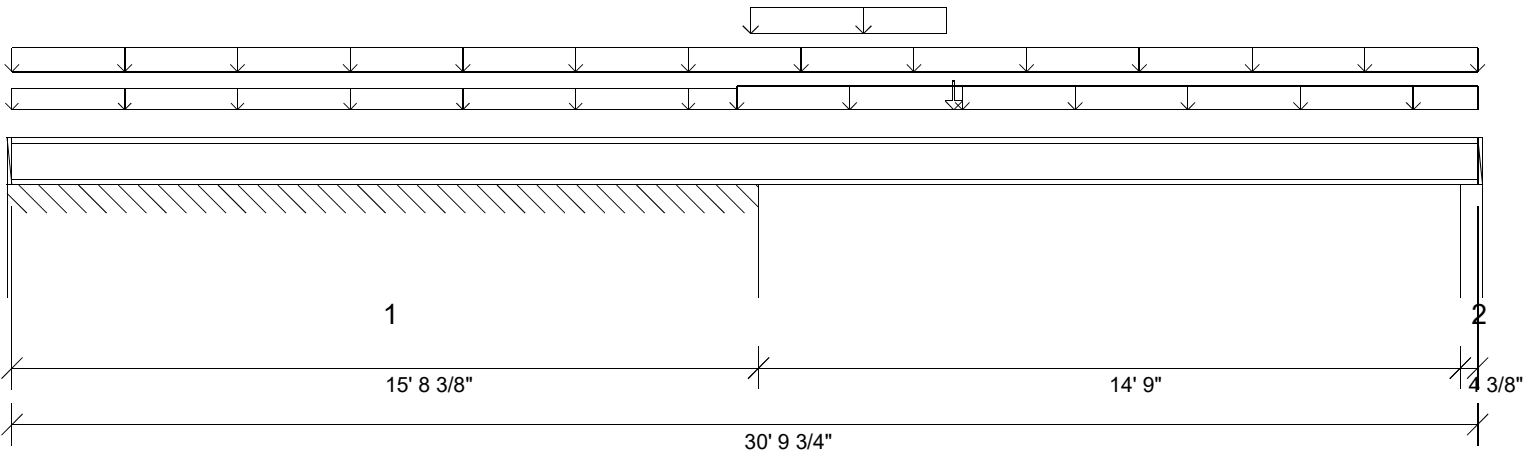
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	30'- 9 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W6(i4)	97.00 lb	447.00/-61.00 lb	-	-
2	15'- 2 7/8"	15'- 6 3/8"	DB1-2(i1171)	302.00 lb	1209.00 lb	-	-
3	30'- 5 3/8"	30'- 9 3/4"	W10(i14)	97.00 lb	448.00/-60.00 lb	-	-

**Errors, Warnings & Notes:**

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Graphical Illustration - Not To Scale  
 Member Cut Length - 30'- 9 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination	
Critical Moment (Pos)	24'- 1 15/16"	1618.16 lb ft	3545.02 lb ft	Passed - 46%	1.00	D + L	
Critical Moment (Neg)	15'- 6 7/8"	-2219.21 lb ft	3545.02 lb ft	Passed - 63%	1.00	D + L	
Critical Shear	15'- 8 7/16"	1025.42 lb	1420.00 lb	Passed - 72%	1.00	D + L	
Live Load Deflection	23'- 9 11/16"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L	
Total Load Deflection	23'- 7 11/16"	0'- 3/16"	0'- 1" (L/240)	Passed - L/999	-	D + L	
Max. Reaction			<u>Supported Mt</u>	<u>Supporting Mt</u>			
	0'- 1 1/2"	106.91 lb	1420.00 lb	9887.50 lb	Passed - 8%	1.00	D + L
	0'- 1 1/2"	-16.43 lb	1420.00 lb	-	Passed - 1%	1.00	D + L
	5'- 3 5/16"	439.46 lb	3245.00 lb	9887.50 lb	Passed - 14%	1.00	D + L
	10'- 5 1/16"	29.20 lb	3245.00 lb	9887.50 lb	Passed - 1%	1.00	D + L
	10'- 5 1/16"	-418.81 lb	3245.00 lb	-	Passed - 13%	1.00	D + L
	15'- 6 7/8"	1711.90 lb	3245.00 lb	9887.50 lb	Passed - 53%	1.00	D + L
	30'- 6 3/8"	539.65 lb	1420.00 lb	6179.73 lb	Passed - 38%	1.00	D + L

**Loading:**

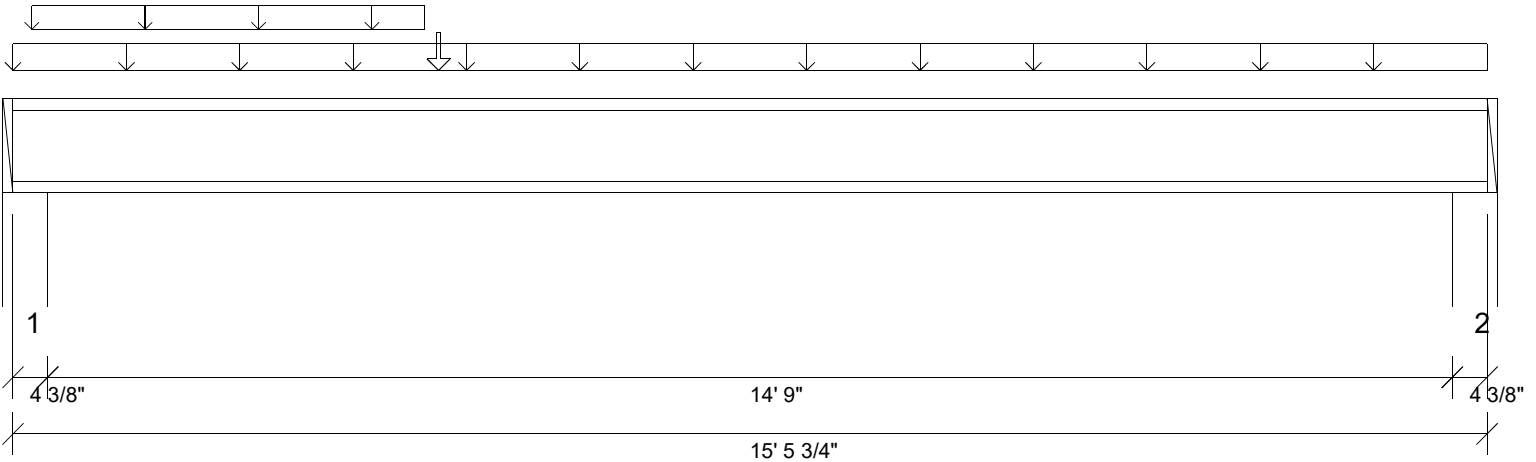
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	30'- 9 3/4"	FC1 Floor Material	8 lb/ft	32 lb/ft	-	-
Uniform	0'	15'- 2 7/8"	FC1 Floor Material	1 lb/ft	6 lb/ft	-	-
Uniform	15'- 2 7/8"	30'- 9 3/4"	FC1 Floor Material	8 lb/ft	32 lb/ft	-	-
Uniform	15'- 6 3/8"	19'- 7 7/8"	6(i92)	73 lb/ft	-	-	-
Point	19'- 9 5/8"	19'- 9 5/8"	7(i94)	58.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	15'- 8 3/8"	-	840.00/-83.00 lb	1379.00/-148.00 lb	-	-
+++	0'- 1 1/2"	0'- 1 1/2"	W6(i4)	21.00 lb	81.00/-8.00 lb	-	-
+++	2'- 11/16"	5'- 11"	W16(i16)	4.00 lb/ft	36.00 lb/ft	-	-
+++	5'- 11"	9'- 9 3/8"	W16(i16)	34.00 lb/ft	85.00 lb/ft	-	-
+++	9'- 9 3/8"	13'- 7 11/16"	W16(i16)	-83.00 lb/ft	46.00/-140.00 lb/ft	-	-
+++	15'- 6 7/8"	15'- 6 7/8"	W15(i15)	781.00 lb	1131.00 lb	-	-
2	30'- 5 3/8"	30'- 9 3/4"	W10(i14)	126.00 lb	405.00/-1.00 lb	-	-

**Errors, Warnings & Notes:**

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- \* 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.
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Graphical Illustration - Not To Scale  
 Member Cut Length - 15' 5 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination	
Critical Moment (Pos)	7'- 9/16"	2652.62 lb ft	3545.02 lb ft	Passed - 75%	1.00	D + L	
Critical Moment (Neg)	0'- 3 3/8"	-5.39 lb ft	3545.02 lb ft	Passed - 0%	1.00	D + L	
Critical Shear	0'- 4 7/16"	797.99 lb	1420.00 lb	Passed - 56%	1.00	D + L	
Live Load Deflection	7'- 8 7/8"	0'- 3/16"	0'- 3/4" (L/480)	Passed - L/897	-	L	
Total Load Deflection	7'- 7 1/8"	0'- 5/16"	0'- 1" (L/240)	Passed - L/596	-	D + L	
Max. Reaction	0'- 3 3/8"	840.77 lb	Supported Mt/ 1420.00 lb	Supported Mt/ 6179.73 lb	Passed - 59%	1.00	D + L
	15'- 2 3/8"	682.12 lb	1420.00 lb	6179.65 lb	Passed - 48%	1.00	D + L

**Loading:**

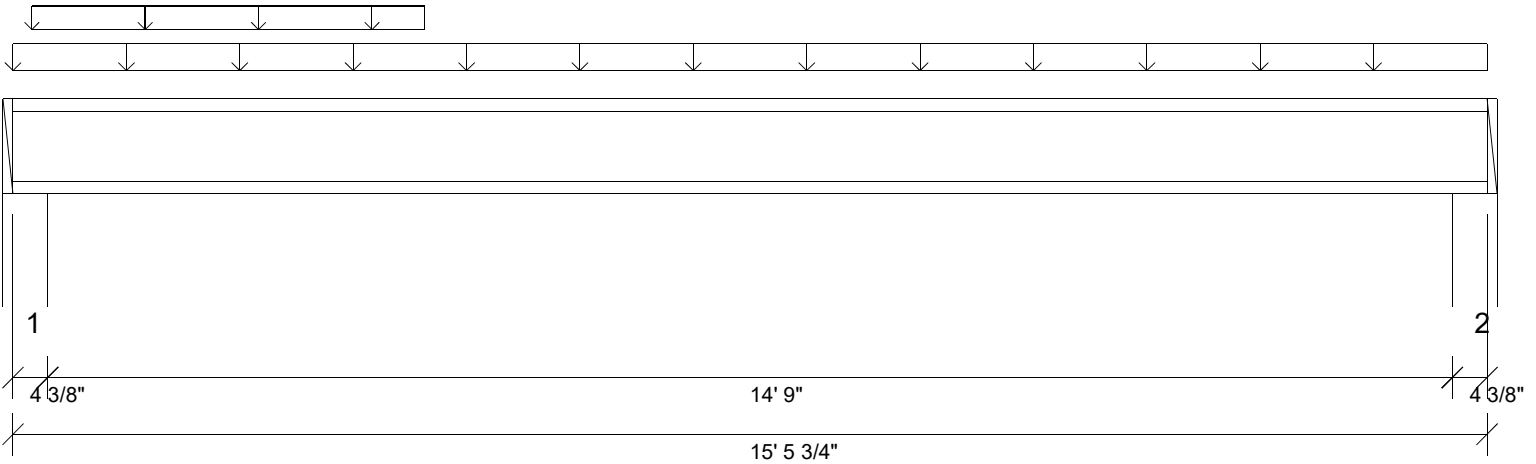
Type	Start	End	Source	Dead	Maximum Load Magnitudes		
					Floor Live	Roof Live	Snow
Uniform	0'	15'- 5 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Uniform	0'- 2 3/8"	4'- 3 7/8"	FC1 Floor Material	33 lb/ft	-	-	-
Point	4'- 5 5/8"	4'- 5 5/8"	7(i94)	133.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Dead	Maximum Analysis Reactions		
					Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W15(i15)	338.00 lb	501.00 lb	-	-
2	15'- 1 3/8"	15'- 5 3/4"	W10(i14)	182.00 lb	501.00 lb	-	-

**Errors, Warnings & Notes:**

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Graphical Illustration - Not To Scale  
 Member Cut Length - 15' 5 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	7'- 5 5/8"	2385.87 lb ft	3545.02 lb ft	Passed - 67%	1.00	D + L
Critical Moment (Neg)	0'- 3 3/8"	-5.41 lb ft	3545.02 lb ft	Passed - 0%	1.00	D + L
Critical Shear	0'- 4 7/16"	725.65 lb	1420.00 lb	Passed - 51%	1.00	D + L
Live Load Deflection	7'- 8 7/8"	0'- 3/16"	0'- 3/4" (L/480)	Passed - L/897	-	L
Total Load Deflection	7'- 8"	0'- 1/4"	0'- 1" (L/240)	Passed - L/662	-	D + L
Max. Reaction			Supported Mt   Supporting Mt			
	0'- 3 3/8"	769.62 lb	1420.00 lb   6179.73 lb	Passed - 54%	1.00	D + L
	15'- 2 3/8"	648.53 lb	1420.00 lb   6179.65 lb	Passed - 46%	1.00	D + L

**Loading:**

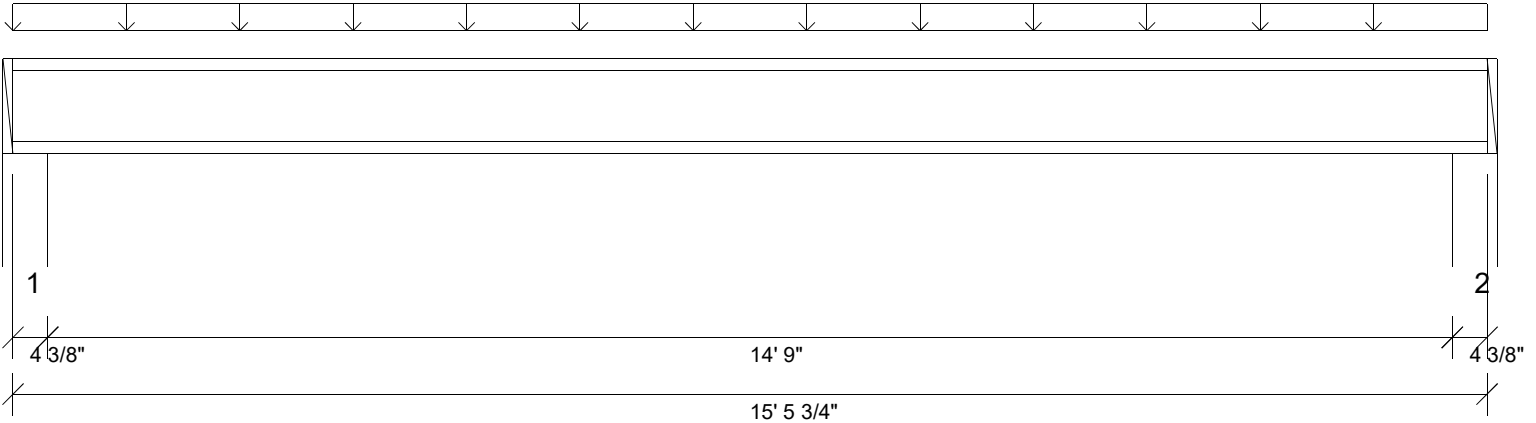
Type	Start	End	Source	Dead	Maximum Load Magnitudes		
					Floor Live	Roof Live	Snow
Uniform	0'	15'- 5 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Uniform	0'- 2 3/8"	4'- 3 7/8"	FC1 Floor Material	40 lb/ft	-	-	-

**Support Information:**

Support	Start	End	Source	Dead	Maximum Analysis Reactions		
					Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W15(i15)	268.00 lb	501.00 lb	-	-
2	15'- 1 3/8"	15'- 5 3/4"	W10(i14)	148.00 lb	501.00 lb	-	-

**Errors, Warnings & Notes:**

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Graphical Illustration - Not To Scale  
 Member Cut Length - 15' 5 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	7'- 8 7/8"	2219.81 lb ft	3545.02 lb ft	Passed - 63%	1.00	D + L
Critical Moment (Neg)	0'- 3 3/8"	-5.27 lb ft	3545.02 lb ft	Passed - 0%	1.00	D + L
Critical Shear	0'- 4 7/16"	589.58 lb	1420.00 lb	Passed - 42%	1.00	D + L
Live Load Deflection	7'- 8 7/8"	0'- 3/16"	0'- 3/4" (L/480)	Passed - L/897	-	L
Total Load Deflection	7'- 8 7/8"	0'- 1/4"	0'- 1" (L/240)	Passed - L/717	-	D + L
Max. Reaction			Supported Mt   Supporting Mt			
	0'- 3 3/8"	626.67 lb	1420.00 lb   6179.65 lb	Passed - 44%	1.00	D + L
	15'- 2 3/8"	626.67 lb	1420.00 lb   6179.73 lb	Passed - 44%	1.00	D + L

**Loading:**

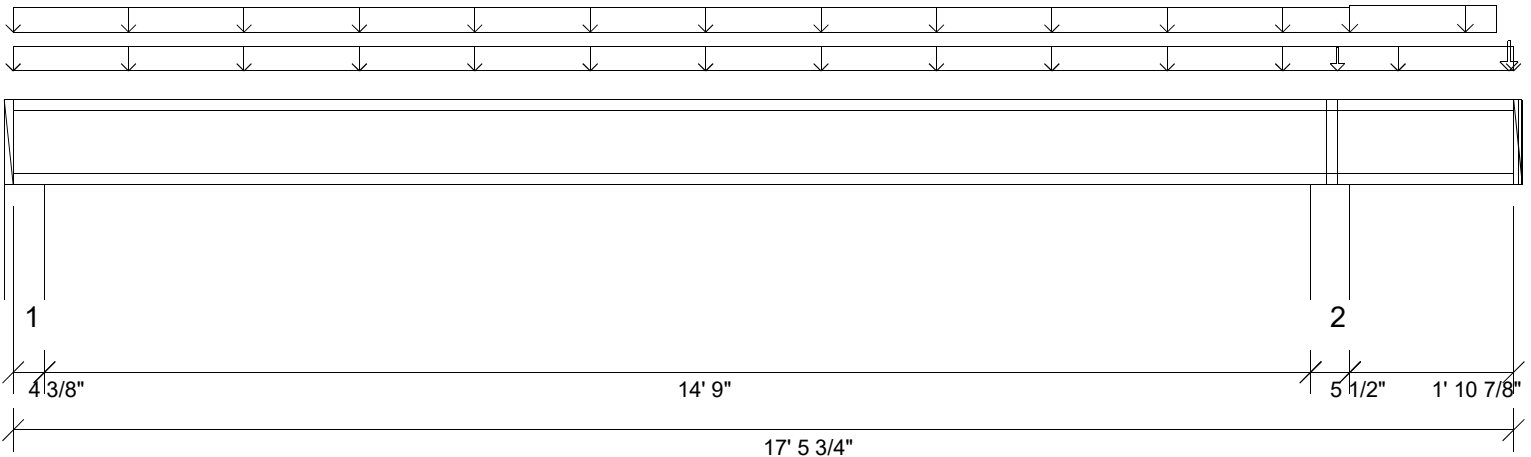
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	15'- 5 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W15(i15)	125.00 lb	501.00 lb	-	-
2	15'- 1 3/8"	15'- 5 3/4"	W10(i14)	125.00 lb	501.00 lb	-	-

**Errors, Warnings & Notes:**

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Graphical Illustration - Not To Scale  
 Member Cut Length - 17' 5 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	7'- 6 7/8"	2120.33 lb ft	3545.02 lb ft	Passed - 60%	1.00	D + L
Critical Moment (Neg)	15'- 4 1/8"	-386.53 lb ft	3545.02 lb ft	Passed - 11%	1.00	D + L
Critical Shear	15'- 1 5/16"	609.06 lb	1420.00 lb	Passed - 43%	1.00	D + L
Live Load Deflection	7'- 9 3/4"	0'- 3/16"	0'- 3/4" (L/480)	Passed - L/864	-	L
Total Load Deflection	7'- 8 11/16"	0'- 1/4"	0'- 1" (L/240)	Passed - L/748	-	D + L
Max. Reaction			Supported Mt/ Supporting Mt/			
	0'- 3 3/8"	613.18 lb	1420.00 lb 6179.73 lb	Passed - 43%	1.00	D + L
	15'- 4 1/8"	941.98 lb	3245.00 lb 7768.73 lb	Passed - 29%	1.00	D + L

**Design Notes:**

\* The deflection at the cantilever for either live and/or total loads is less than 3/8" and therefore has been excluded from the deflection ratio considerations.

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	17'- 5 3/4"	FC1 Floor Material	8 lb/ft	32 lb/ft	-	-
Uniform	0'	15'- 6 7/8"	FC1 Floor Material	8 lb/ft	32 lb/ft	-	-
Uniform	15'- 6 7/8"	17'- 3 3/8"	E14(i77)	73 lb/ft	-	-	-
Point	15'- 5 1/8"	15'- 5 1/8"	E13(i72)	15.00 lb	-	-	-
Point	17'- 5 1/8"	17'- 5 1/8"	E15(i79)	66.00 lb	-	-	-

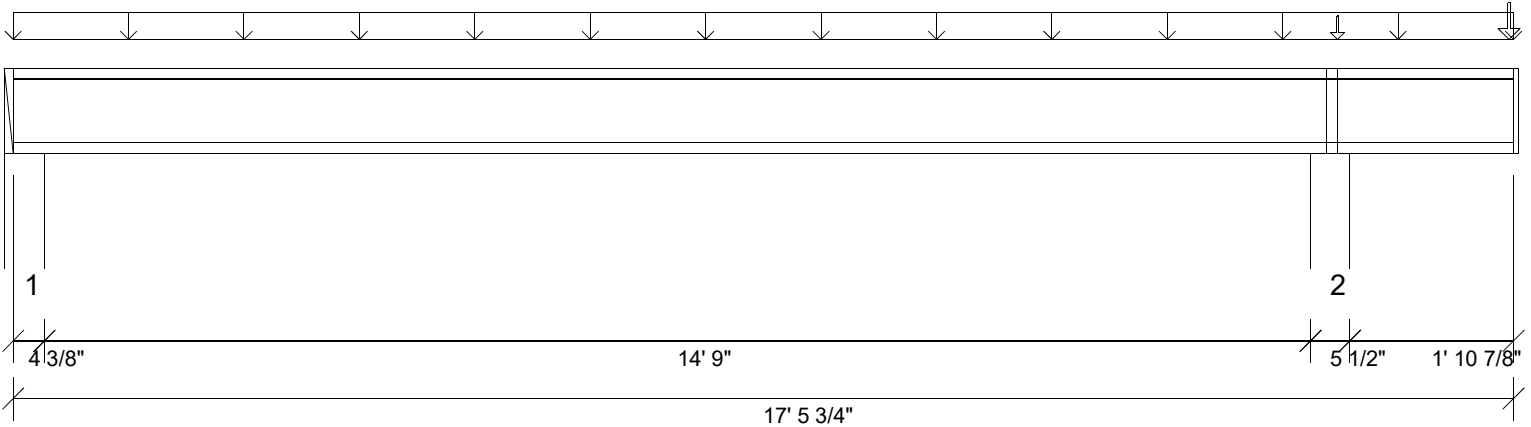
**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W15(i15)	108.00 lb	506.00/-6.00 lb	-	-
2	15'- 1 3/8"	15'- 6 7/8"	W10(i14)	366.00 lb	568.00 lb	-	-

**Errors, Warnings & Notes:**

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- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
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Graphical Illustration - Not To Scale  
 Member Cut Length - 17' 5 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	7'- 6 15/16"	2122.31 lb ft	3545.02 lb ft	Passed - 60%	1.00	D + L
Critical Moment (Neg)	15'- 4 1/8"	-443.09 lb ft	3545.02 lb ft	Passed - 12%	1.00	D + L
Critical Shear	15'- 1 5/16"	611.87 lb	1420.00 lb	Passed - 43%	1.00	D + L
Live Load Deflection	7'- 9 3/4"	0'- 3/16"	0'- 3/4" (L/480)	Passed - L/865	-	L
Total Load Deflection	7'- 8 3/4"	0'- 1/4"	0'- 1" (L/240)	Passed - L/747	-	D + L
Max. Reaction			Supported Mt   Supporting Mt			
	0'- 3 3/8"	612.92 lb	1420.00 lb   6179.73 lb	Passed - 43%	1.00	D + L
	15'- 4 1/8"	940.63 lb	3245.00 lb   7768.73 lb	Passed - 29%	1.00	D + L

**Design Notes:**

\* The deflection at the cantilever for either live and/or total loads is less than 3/8" and therefore has been excluded from the deflection ratio considerations.

**Loading:**

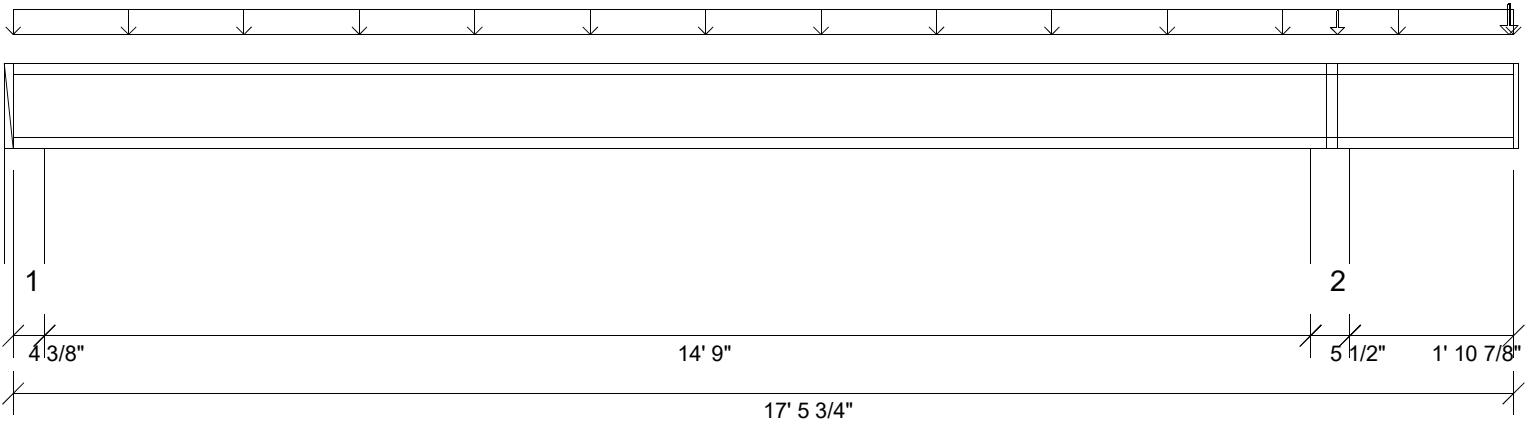
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	17'- 5 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-
Point	15'- 5 1/8"	15'- 5 1/8"	15(i101)	15.00 lb	-	-	-
Point	17'- 5 1/8"	17'- 5 1/8"	E15(i79)	117.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W15(i15)	108.00 lb	505.00/-10.00 lb	-	-
2	15'- 1 3/8"	15'- 6 7/8"	W10(i14)	306.00 lb	629.00 lb	-	-

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Graphical Illustration - Not To Scale  
 Member Cut Length - 17' 5 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	7'- 7"	1282.71 lb ft	3545.02 lb ft	Passed - 36%	1.00	D + L
Critical Moment (Neg)	15'- 4 1/8"	-266.77 lb ft	3545.02 lb ft	Passed - 8%	1.00	D + L
Critical Shear	15'- 1 5/16"	369.61 lb	1420.00 lb	Passed - 26%	1.00	D + L
Live Load Deflection	7'- 9 3/4"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	7'- 8 3/4"	0'- 1/8"	0'- 1" (L/240)	Passed - L/999	-	D + L
Max. Reaction			Supported Mt   Supporting Mt			
	0'- 3 3/8"	370.38 lb	1420.00 lb   6179.69 lb	Passed - 26%	1.00	D + L
	15'- 4 1/8"	573.49 lb	3245.00 lb   7768.73 lb	Passed - 18%	1.00	D + L

**Design Notes:**

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**Loading:**

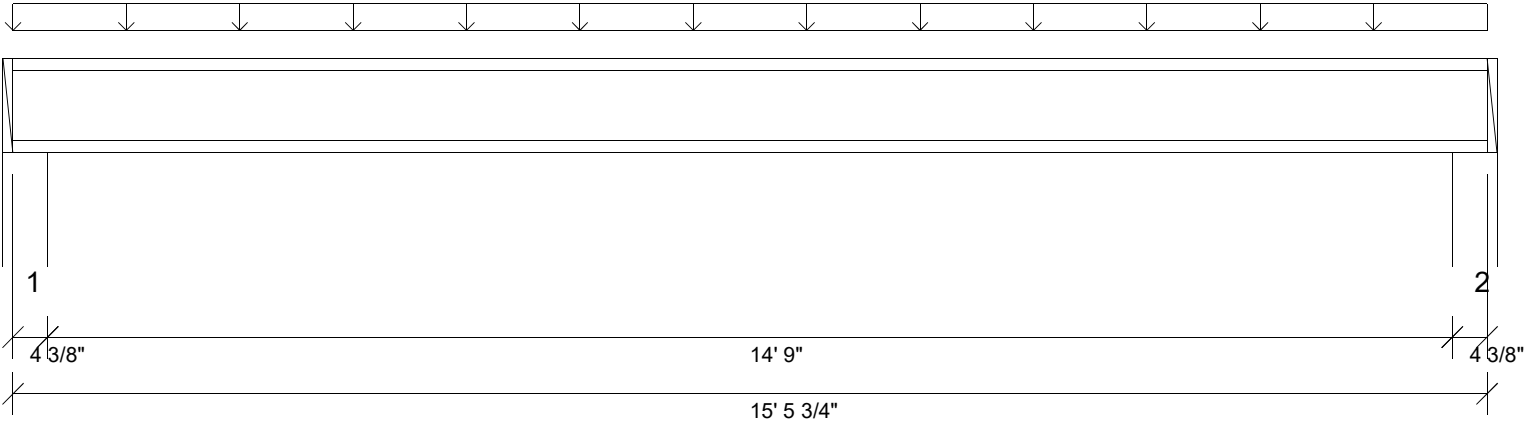
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	17'- 5 3/4"	FC1 Floor Material	10 lb/ft	39 lb/ft	-	-
Point	15'- 5 1/8"	15'- 5 1/8"	15(i101)	15.00 lb	-	-	-
Point	17'- 5 1/8"	17'- 5 1/8"	E15(i79)	70.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W15(i15)	65.00 lb	305.00/-6.00 lb	-	-
2	15'- 1 3/8"	15'- 6 7/8"	W10(i14)	190.00 lb	381.00 lb	-	-

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Graphical Illustration - Not To Scale  
 Member Cut Length - 15' 5 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	7'- 8 7/8"	1990.74 lb ft	3545.02 lb ft	Passed - 56%	1.00	D + L
Critical Moment (Neg)	15'- 2 3/8"	-4.73 lb ft	3545.02 lb ft	Passed - 0%	1.00	D + L
Critical Shear	15'- 1 5/16"	528.74 lb	1420.00 lb	Passed - 37%	1.00	D + L
Live Load Deflection	7'- 8 7/8"	0'- 3/16"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	7'- 8 7/8"	0'- 1/4"	0'- 1" (L/240)	Passed - L/800	-	D + L
Max. Reaction	0'- 3 3/8"	562.00 lb	Supported Mt/ 1420.00 lb	Passed - 40%	1.00	D + L
	15'- 2 3/8"	562.00 lb	Supporting Mt/ 6179.65 lb	Passed - 40%	1.00	D + L

**Loading:**

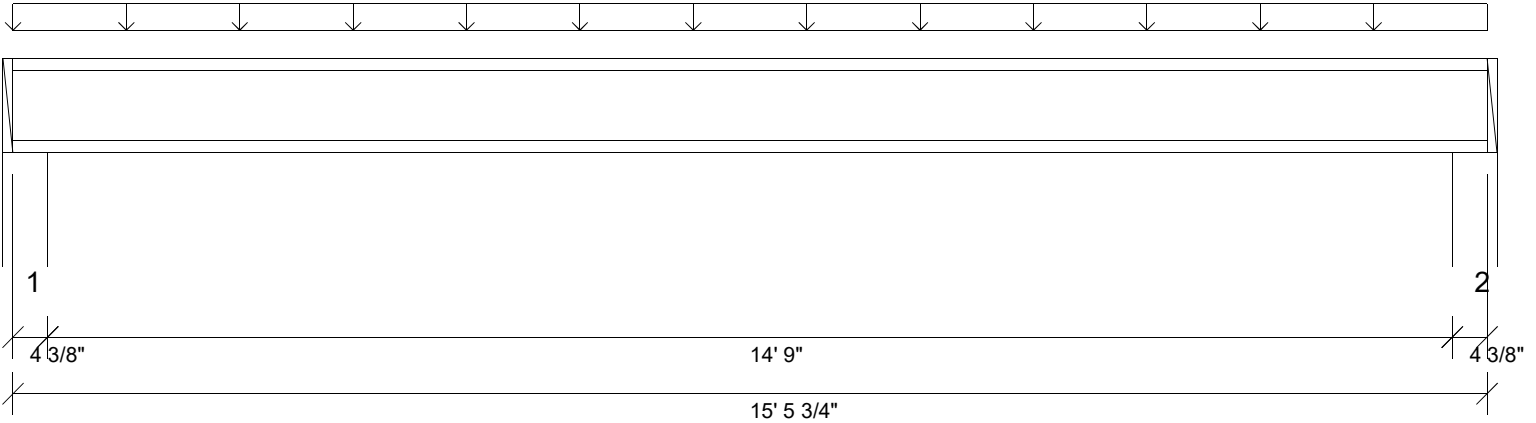
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	15'- 5 3/4"	FC1 Floor Material	14 lb/ft	57 lb/ft	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W15(i15)	112.00 lb	450.00 lb	-	-
2	15'- 1 3/8"	15'- 5 3/4"	W10(i14)	112.00 lb	449.00 lb	-	-

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Graphical Illustration - Not To Scale  
 Member Cut Length - 15' 5 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	7'- 8 7/8"	1943.06 lb ft	3545.02 lb ft	Passed - 55%	1.00	D + L
Critical Moment (Neg)	0'- 3 3/8"	-4.62 lb ft	3545.02 lb ft	Passed - 0%	1.00	D + L
Critical Shear	15'- 1 5/16"	516.08 lb	1420.00 lb	Passed - 36%	1.00	D + L
Live Load Deflection	7'- 8 7/8"	0'- 3/16"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	7'- 8 7/8"	0'- 3/16"	0'- 1" (L/240)	Passed - L/820	-	D + L
Max. Reaction			Supported Mt   Supporting Mt			
	0'- 3 3/8"	548.54 lb	1420.00 lb   6179.69 lb	Passed - 39%	1.00	D + L
	15'- 2 3/8"	548.54 lb	1420.00 lb   6179.65 lb	Passed - 39%	1.00	D + L

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	15'- 5 3/4"	FC1 Floor Material	14 lb/ft	56 lb/ft	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W15(i15)	110.00 lb	439.00 lb	-	-
2	15'- 1 3/8"	15'- 5 3/4"	W10(i14)	110.00 lb	439.00 lb	-	-

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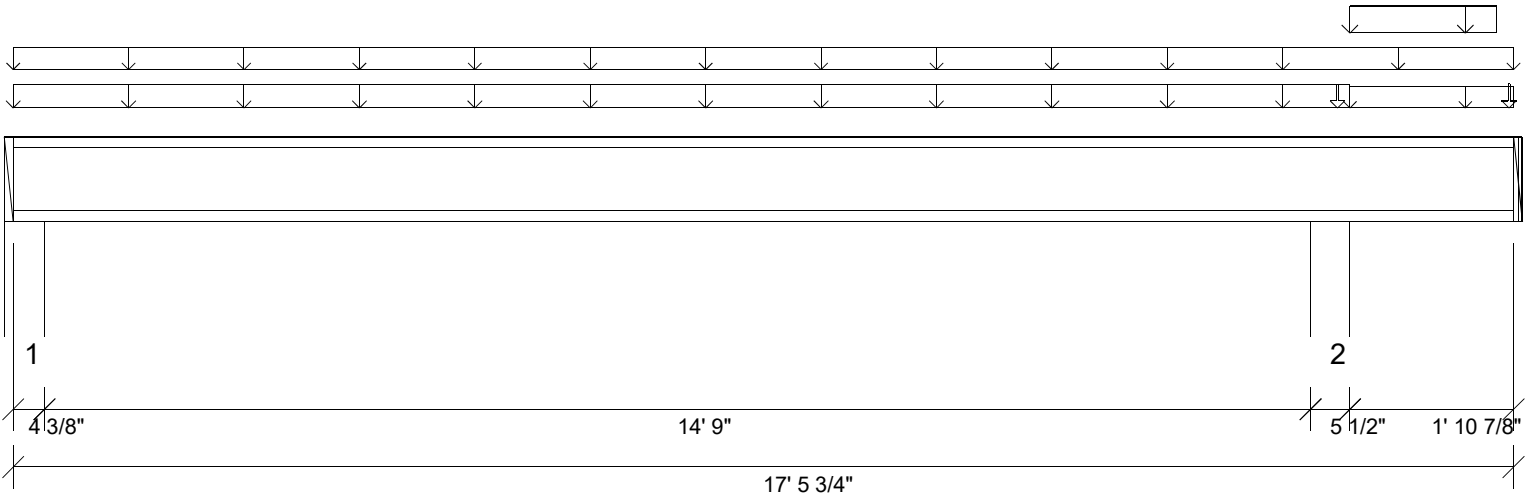
Job: 19110042  
 Member Type: FloorJoist | Level: CRAWL  
 MiTek SAPPHERE™ Structure Version 8.3.2.221.Update4  
 Designed by Single Member Design Engine

Label: J18-1-i1157

Page: 21 of 53  
 Date: 12/17/2019 08:54:48

Member: 1 - 11 7/8" PJI-40

Status: Design Passed



Graphical Illustration - Not To Scale  
 Member Cut Length - 17' 5 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	7'- 6 1/8"	1042.52 lb ft	3545.02 lb ft	Passed - 29%	1.00	D + L
Critical Moment (Neg)	15'- 4 1/8"	-212.06 lb ft	3545.02 lb ft	Passed - 6%	1.00	D + L
Critical Shear	15'- 1 5/16"	305.78 lb	1420.00 lb	Passed - 22%	1.00	D + L
Live Load Deflection	7'- 9 3/4"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	7'- 8 7/16"	0'- 1/8"	0'- 1" (L/240)	Passed - L/999	-	D + L
Max. Reaction			Supported Mt   Supporting Mt			
	0'- 3 3/8"	304.16 lb	1420.00 lb   6179.69 lb	Passed - 21%	1.00	D + L
	15'- 4 1/8"	510.93 lb	3245.00 lb   7768.73 lb	Passed - 16%	1.00	D + L

**Design Notes:**

\* The deflection at the cantilever for either live and/or total loads is less than 3/8" and therefore has been excluded from the deflection ratio considerations.

**Loading:**

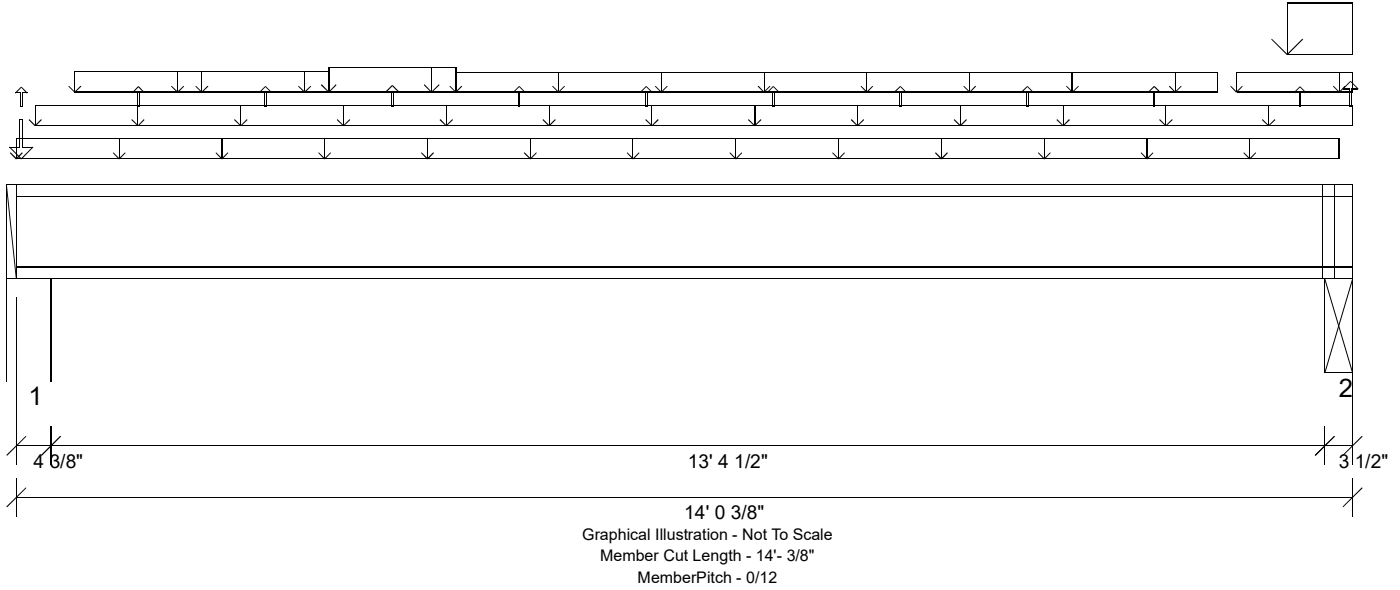
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	17'- 5 3/4"	FC1 Floor Material	2 lb/ft	7 lb/ft	-	-
Uniform	0'	15'- 6 7/8"	FC1 Floor Material	6 lb/ft	25 lb/ft	-	-
Uniform	15'- 6 7/8"	17'- 5 3/4"	FC1 Floor Material	-	4 lb/ft	-	-
Uniform	15'- 6 7/8"	17'- 3 3/8"	E16(i78)	73 lb/ft	-	-	-
Point	15'- 5 1/8"	15'- 5 1/8"	E17(i85)	15.00 lb	-	-	-
Point	17'- 5 1/8"	17'- 5 1/8"	E15(i79)	20.00 lb	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W15(i15)	52.00 lb	254.00/-2.00 lb	-	-
2	15'- 1 3/8"	15'- 6 7/8"	W10(i14)	238.00 lb	269.00 lb	-	-

**Errors, Warnings & Notes:**

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

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination	
Critical Moment (Pos)	6'- 6 5/8"	3939.96 lb ft	7090.04 lb ft	Passed - 56%	1.00	D + L	
Critical Moment (Neg)	0'- 3 3/8"	-35.68 lb ft	7090.04 lb ft	Passed - 1%	1.00	D + L	
Critical Shear	13'- 8 13/16"	1591.83 lb	2840.00 lb	Passed - 56%	1.00	D + L	
Live Load Deflection	6'- 10 7/8"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L	
Total Load Deflection	6'- 11 1/2"	0'- 1/4"	0'- 1" (L/240)	Passed - L/689	-	D + L	
Max. Reaction			<u>Supported Mt</u>	<u>Supporting Mt</u>			
	0'- 3 3/8"	1403.71 lb	2840.00 lb	12359.38 lb	Passed - 49%	1.00	D + L
	13'- 9 7/8"	2063.74 lb	2742.22 lb	13124.97 lb	Passed - 75%	1.00	D + L

**Design Notes:**

\* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	13'- 10 5/8"	FC1 Floor Material	8 lb/ft	32 lb/ft	-	-
Uniform	0'- 2 3/8"	14'- 3/8"	3(i89)	73 lb/ft	-	-	-
Uniform	0'- 7 3/8"	1'- 11 3/8"	3(i89)	14 lb/ft	41 lb/ft	-	-
Uniform	1'- 11 3/8"	3'- 3 3/8"	3(i89)	-	45 lb/ft	-	-
Uniform	3'- 3 3/8"	4'- 7 3/8"	3(i89)	77 lb/ft	164 lb/ft	5 lb/ft	2 lb/ft
Uniform	4'- 7 3/8"	12'- 7 3/8"	-	-	26 lb/ft	-	-
Uniform	12'- 9 3/4"	14'- 3/8"	3(i89)	-	20 lb/ft	-	-
Uniform	13'- 4 1/8"	14'- 3/8"	3(i89)	474 lb/ft	979 lb/ft	6 lb/ft	3 lb/ft
Point	0'- 5/8"	0'- 5/8"	E11(i86)	121.00 lb	25.00/-4.00 lb	15.00 lb	7.00 lb
Point	1'- 3 3/8"	1'- 3 3/8"	3(i89)	-	-8.00 lb	-	-
Point	2'- 7 3/8"	2'- 7 3/8"	3(i89)	-	-9.00 lb	-	-
Point	3'- 11 3/8"	3'- 11 3/8"	3(i89)	-	-9.00 lb	-	-
Point	5'- 3 3/8"	5'- 3 3/8"	3(i89)	-	-9.00 lb	-	-
Point	6'- 7 3/8"	6'- 7 3/8"	3(i89)	-	-9.00 lb	-	-
Point	7'- 11 3/8"	7'- 11 3/8"	3(i89)	-	-9.00 lb	-	-
Point	9'- 3 3/8"	9'- 3 3/8"	3(i89)	-	-9.00 lb	-	-
Point	10'- 7 3/8"	10'- 7 3/8"	3(i89)	-	-9.00 lb	-	-
Point	11'- 11 3/8"	11'- 11 3/8"	3(i89)	-	-9.00 lb	-	-
Point	13'- 5 3/4"	13'- 5 3/4"	3(i89)	-	-6.00 lb	-	-
Point	14'- 1/8"	14'- 1/8"	3(i89)	-	-48.00 lb	-	-

**Support Information:**

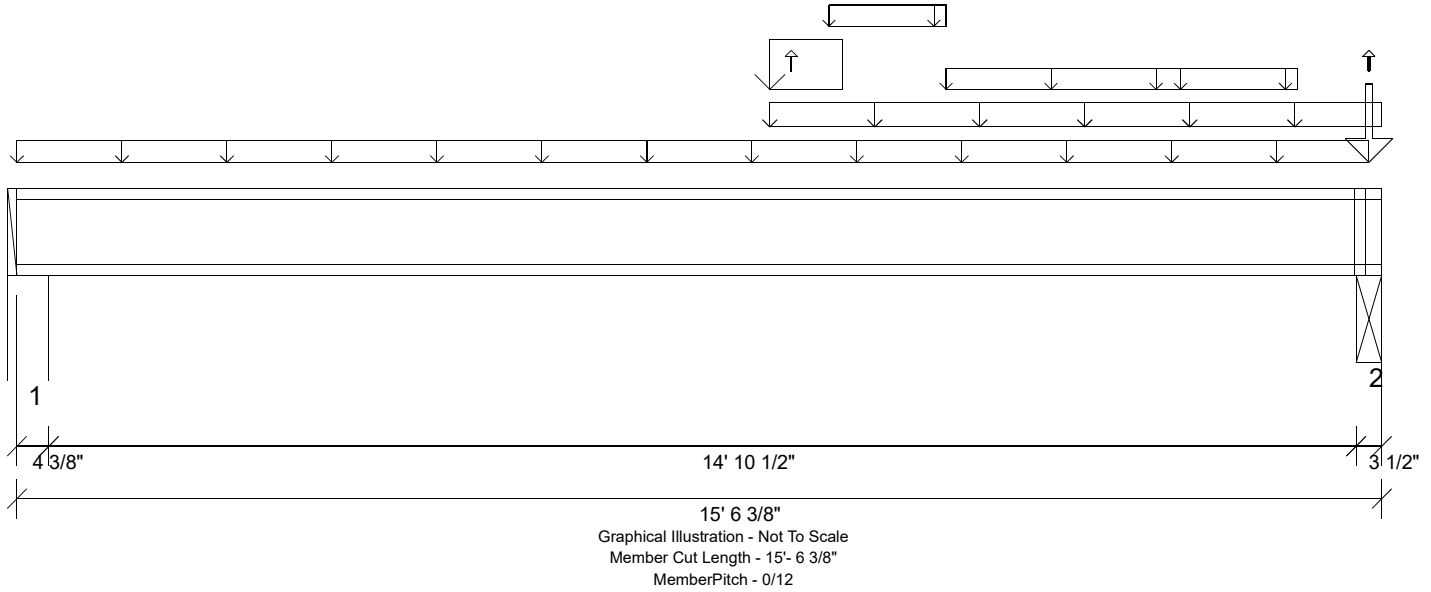
Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W8(i11)	803.00 lb	601.00/-46.00 lb	21.00 lb	9.00 lb
2	13'- 8 7/8"	14'- 3/8"	DB1-2(i1171)	954.00 lb	1109.00/-92.00 lb	6.00 lb	3.00 lb

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* 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.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Actual field conditions may differ from those shown. These results should be reviewed by a qualified design professional.



**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	9'- 7/16"	3658.11 lb ft	7090.04 lb ft	Passed - 52%	1.00	D + L
Critical Moment (Neg)	15'- 3 7/8"	-144.05 lb ft	7090.04 lb ft	Passed - 2%	1.00	D + L
Critical Shear	15'- 2 13/16"	1041.19 lb	2840.00 lb	Passed - 37%	1.00	D + L
Live Load Deflection	8'- 1/4"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	8'- 1 13/16"	0'- 1/4"	0'- 1" (L/240)	Passed - L/764	-	D + L
Max. Reaction	0'- 3 3/8"	614.88 lb	Supported Mt/ 2840.00 lb	Passed - 22%	1.00	D + L
	15'- 3 7/8"	3352.56 lb	Supporting Mt/ 12359.31 lb	Failed - 120%	1.00	D + L

**Design Notes:**

- \* The required bearing length for this member exceeds the maximum bearing length for both with (400) and without web stiffeners (400)
- \* End support lengths don't meet the required bearing length for this product (Actual = '308', Required = '400' ; )
- \* Member design assumed proper ply to ply connection. Verify connection between plies according to code specification

**Design Accessories**

- \* Critical Reaction Web Stiffener @ 15'- 3 7/8"

**Loading:**

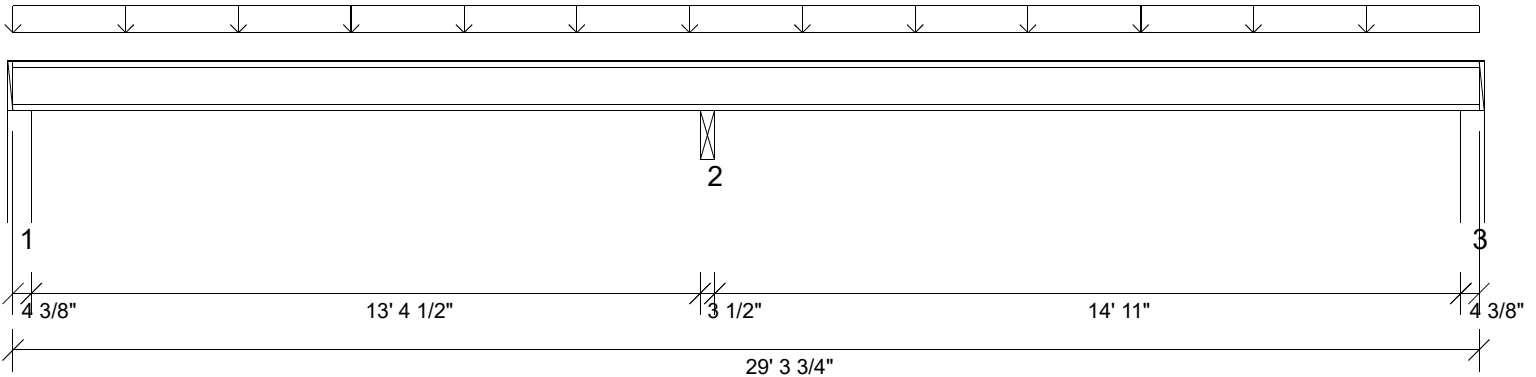
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	15'- 4 5/8"	FC1 Floor Material	8 lb/ft	32 lb/ft	-	-
Uniform	8'- 6 13/16"	15'- 6 3/8"	5(i91)	73 lb/ft	-	-	-
Uniform	8'- 6 13/16"	9'- 4 13/16"	5(i91)	163 lb/ft	281 lb/ft	11 lb/ft	5 lb/ft
Uniform	9'- 2 7/8"	10'- 6 7/8"	5(i91)	-	21 lb/ft	-	-
Uniform	10'- 6 7/8"	13'- 2 7/8"	-	-	26 lb/ft	-	-
Uniform	13'- 2 7/8"	14'- 6 7/8"	5(i91)	-	25 lb/ft	-	-
Point	8'- 9 3/4"	8'- 9 3/4"	-	-	-4.00 lb	-	-
Point	15'- 4 5/8"	15'- 4 5/8"	-	685.00 lb	1594.00/-3.00 lb	10.00 lb	5.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W6(i4)	240.00 lb	387.00/-2.00 lb	4.00 lb	2.00 lb
2	15'- 2 7/8"	15'- 6 3/8"	DB1-2(i1171)	1249.00 lb	2092.00/-5.00 lb	15.00 lb	7.00 lb

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* 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.
- \* Reinforcement Accessories are required. Refer to current manufacturer's product literature for installation details.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.



Graphical Illustration - Not To Scale  
 Member Cut Length - 29' 3 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Design Results:**

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	22'- 7 1/8"	1651.98 lb ft	3545.02 lb ft	Passed - 47%	1.00	D + L
Critical Moment (Neg)	13'- 10 5/8"	-2081.61 lb ft	3545.02 lb ft	Passed - 59%	1.00	D + L
Critical Shear	14'- 7/16"	730.84 lb	1420.00 lb	Passed - 51%	1.00	D + L
Live Load Deflection	21'- 10 7/8"	0'- 1/8"	0'- 3/4" (L/480)	Passed - L/999	-	L
Total Load Deflection	21'- 11 15/16"	0'- 3/16"	0'- 1" (L/240)	Passed - L/999	-	D + L
Max. Reaction			Supported Mt   Supporting Mt			
	0'- 3 3/8"	492.53 lb	1420.00 lb   6179.65 lb	Passed - 35%	1.00	D + L
	13'- 10 5/8"	1439.72 lb	2755.00 lb   6562.44 lb	Passed - 52%	1.00	D + L
	29'- 3/8"	544.94 lb	1420.00 lb   6179.67 lb	Passed - 38%	1.00	D + L

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	29'- 3 3/4"	FC1 Floor Material	16 lb/ft	64 lb/ft	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 4 3/8"	W8(i11)	84.00 lb	408.00/-71.00 lb	-	-
2	13'- 8 7/8"	14'- 3/8"	DB1-2(i1171)	288.00 lb	1152.00 lb	-	-
3	28'- 11 3/8"	29'- 3 3/4"	W10(i14)	100.00 lb	445.00/-46.00 lb	-	-

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* 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.
- \* A load bearing wall is supported by the I-joist at a location where the I-joist is supported by a member below. Please see manufacturer installation guidelines for requirements of blocking/squash blocks.





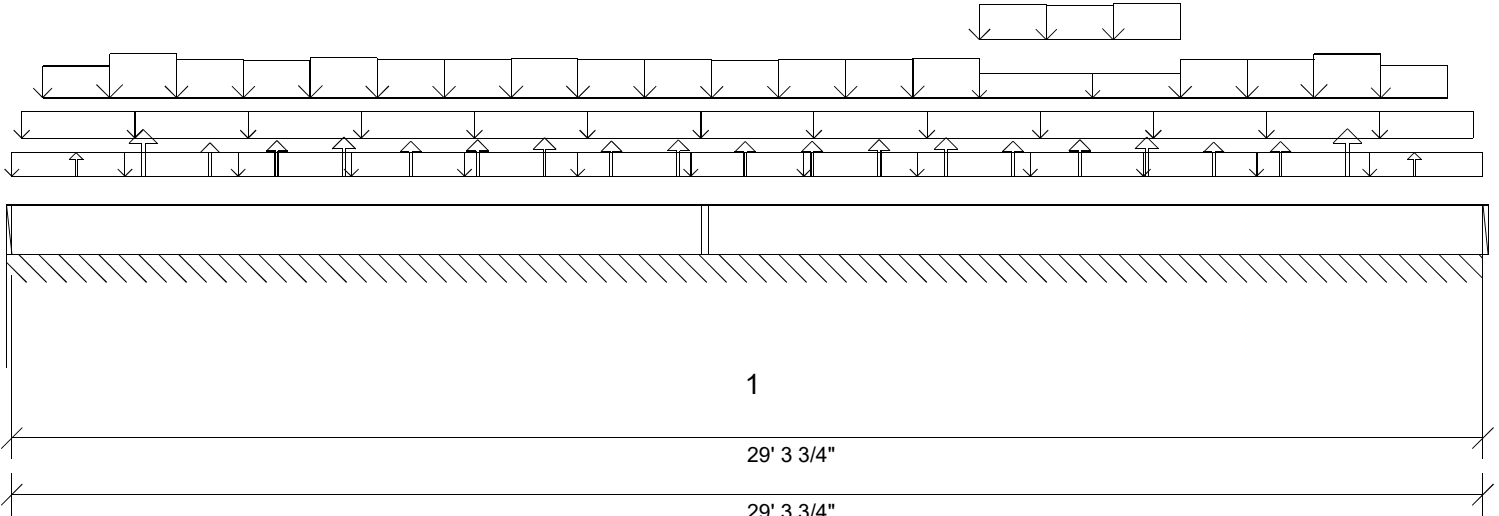
Job: 19110042  
 Member Type: ParallelClosure | Level: CRAWL  
 MiTek SAPPHERE™ Structure Version 8.3.2.221.Update4  
 Designed by Single Member Design Engine

Label: RIM-i1159

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 Date: 12/17/2019 08:54:48

Member: 1 - 1 1/8" x 11 7/8" APA Rim Board

Status: Design Passed



Graphical Illustration - Not To Scale  
 Member Cut Length - 29'- 3 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Self Weight	0'	29'- 3 3/4"	Self Weight	3 lb/ft	-	-	-
Uniform	0'	29'- 3 3/4"	FC1 Floor Material	8 lb/ft	32 lb/ft	-	-
Uniform	0'- 2 3/8"	29'- 1 3/8"	E12(i70)	73 lb/ft	-	-	-
Uniform	0'- 7 3/8"	1'- 11 3/8"	E12(i70)	81 lb/ft	42 lb/ft	13 lb/ft	4 lb/ft
Uniform	1'- 11 3/8"	3'- 3 3/8"	E12(i70)	142 lb/ft	46 lb/ft	79 lb/ft	27 lb/ft
Uniform	3'- 3 3/8"	4'- 7 3/8"	E12(i70)	113 lb/ft	46 lb/ft	55 lb/ft	16 lb/ft
Uniform	4'- 7 3/8"	5'- 11 3/8"	E12(i70)	108 lb/ft	46 lb/ft	53 lb/ft	14 lb/ft
Uniform	5'- 11 3/8"	7'- 3 3/8"	E12(i70)	119 lb/ft	46 lb/ft	62 lb/ft	19 lb/ft
Uniform	7'- 3 3/8"	8'- 7 3/8"	E12(i70)	116 lb/ft	46 lb/ft	50 lb/ft	17 lb/ft
Uniform	8'- 7 3/8"	9'- 11 3/8"	E12(i70)	112 lb/ft	46 lb/ft	50 lb/ft	16 lb/ft
Uniform	9'- 11 3/8"	11'- 3 3/8"	E12(i70)	118 lb/ft	46 lb/ft	58 lb/ft	18 lb/ft
Uniform	11'- 3 3/8"	12'- 7 3/8"	E12(i70)	116 lb/ft	46 lb/ft	49 lb/ft	17 lb/ft
Uniform	12'- 7 3/8"	13'- 11 3/8"	E12(i70)	112 lb/ft	46 lb/ft	48 lb/ft	16 lb/ft
Uniform	13'- 11 3/8"	15'- 3 3/8"	E12(i70)	112 lb/ft	46 lb/ft	48 lb/ft	14 lb/ft
Uniform	15'- 3 3/8"	16'- 7 3/8"	E12(i70)	115 lb/ft	46 lb/ft	47 lb/ft	16 lb/ft
Uniform	16'- 7 3/8"	17'- 11 3/8"	E12(i70)	112 lb/ft	46 lb/ft	50 lb/ft	16 lb/ft
Uniform	17'- 11 3/8"	19'- 3 3/8"	E12(i70)	118 lb/ft	46 lb/ft	58 lb/ft	18 lb/ft
Uniform	19'- 3 3/8"	23'- 3 3/8"	E12(i70)	-	46 lb/ft	-	-
Uniform	19'- 3 3/8"	20'- 7 3/8"	E12(i70)	116 lb/ft	-	50 lb/ft	17 lb/ft
Uniform	20'- 7 3/8"	21'- 11 3/8"	E12(i70)	112 lb/ft	-	50 lb/ft	16 lb/ft
Uniform	21'- 11 3/8"	23'- 3 3/8"	E12(i70)	119 lb/ft	-	62 lb/ft	19 lb/ft
Uniform	23'- 3 3/8"	24'- 7 3/8"	E12(i70)	112 lb/ft	46 lb/ft	52 lb/ft	16 lb/ft
Uniform	24'- 7 3/8"	25'- 11 3/8"	E12(i70)	109 lb/ft	46 lb/ft	54 lb/ft	14 lb/ft
Uniform	25'- 11 3/8"	27'- 3 3/8"	E12(i70)	142 lb/ft	46 lb/ft	80 lb/ft	28 lb/ft
Uniform	27'- 3 3/8"	28'- 7 3/8"	E12(i70)	88 lb/ft	44 lb/ft	16 lb/ft	5 lb/ft
Point	1'- 3 3/8"	1'- 3 3/8"	E12(i70)	-	-14.00 lb	-6.00 lb	-
Point	2'- 7 3/8"	2'- 7 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	3'- 11 3/8"	3'- 11 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	5'- 3 3/8"	5'- 3 3/8"	E12(i70)	-	-16.00 lb	-	-
Point	6'- 7 3/8"	6'- 7 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	7'- 11 3/8"	7'- 11 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	9'- 3 3/8"	9'- 3 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	10'- 7 3/8"	10'- 7 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	11'- 11 3/8"	11'- 11 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	13'- 3 3/8"	13'- 3 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	14'- 7 3/8"	14'- 7 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	15'- 11 3/8"	15'- 11 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	17'- 3 3/8"	17'- 3 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	18'- 7 3/8"	18'- 7 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	19'- 11 3/8"	19'- 11 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	21'- 3 3/8"	21'- 3 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	22'- 7 3/8"	22'- 7 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	23'- 11 3/8"	23'- 11 3/8"	E12(i70)	-	-16.00 lb	-	-
Point	25'- 3 3/8"	25'- 3 3/8"	E12(i70)	-	-16.00 lb	-	-
Point	26'- 7 3/8"	26'- 7 3/8"	E12(i70)	-	-15.00 lb	-	-
Point	27'- 11 3/8"	27'- 11 3/8"	E12(i70)	-	-15.00 lb	-5.00 lb	-

**Support Information:**

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Actual field conditions may differ from those shown. These results should be reviewed by a qualified design professional.



Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	29'- 3 3/4"	-	2694.00 lb	1009.00/-317.00 lb	1083.00/-11.00 lb	344.00 lb
+++	0'	0'- 6 7/8"	W8(i11)	11.00 lb/ft	32.00 lb/ft	-	-
+++	0'	0'	W8(i11)	1.00 lb	3.00 lb	-	-
+++	0'- 2 3/8"	0'- 6 7/8"	W8(i11)	73.00 lb/ft	-	-	-
+++	0'- 6 7/8"	28'- 8 7/8"	W9(i1)	3.00 lb/ft	-	-	-
+++	0'- 6 7/8"	13'- 10 5/8"	W9(i1)	8.00 lb/ft	32.00 lb/ft	-	-
+++	0'- 6 7/8"	28'- 8 7/8"	W9(i1)	73.00 lb/ft	-	-	-
+++	0'- 7 3/8"	1'- 11 3/8"	W9(i1)	81.00 lb/ft	42.00 lb/ft	13.00 lb/ft	4.00 lb/ft
+++	1'- 3 3/8"	1'- 3 3/8"	W9(i1)	-	-14.00 lb	-6.00 lb	-
+++	1'- 11 3/8"	3'- 3 3/8"	W9(i1)	142.00 lb/ft	46.00 lb/ft	79.00 lb/ft	27.00 lb/ft
+++	2'- 7 3/8"	2'- 7 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	3'- 3 3/8"	4'- 7 3/8"	W9(i1)	113.00 lb/ft	46.00 lb/ft	55.00 lb/ft	16.00 lb/ft
+++	3'- 11 3/8"	3'- 11 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	4'- 7 3/8"	5'- 11 3/8"	W9(i1)	108.00 lb/ft	46.00 lb/ft	53.00 lb/ft	14.00 lb/ft
+++	5'- 3 3/8"	5'- 3 3/8"	W9(i1)	-	-16.00 lb	-	-
+++	5'- 11 3/8"	7'- 3 3/8"	W9(i1)	119.00 lb/ft	46.00 lb/ft	62.00 lb/ft	19.00 lb/ft
+++	6'- 7 3/8"	6'- 7 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	7'- 3 3/8"	8'- 7 3/8"	W9(i1)	116.00 lb/ft	46.00 lb/ft	50.00 lb/ft	17.00 lb/ft
+++	7'- 11 3/8"	7'- 11 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	8'- 7 3/8"	9'- 11 3/8"	W9(i1)	112.00 lb/ft	46.00 lb/ft	50.00 lb/ft	16.00 lb/ft
+++	9'- 3 3/8"	9'- 3 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	9'- 11 3/8"	11'- 3 3/8"	W9(i1)	118.00 lb/ft	46.00 lb/ft	58.00 lb/ft	18.00 lb/ft
+++	10'- 7 3/8"	10'- 7 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	11'- 3 3/8"	12'- 7 3/8"	W9(i1)	116.00 lb/ft	46.00 lb/ft	49.00 lb/ft	17.00 lb/ft
+++	11'- 11 3/8"	11'- 11 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	12'- 7 3/8"	13'- 11 3/8"	W9(i1)	112.00 lb/ft	46.00 lb/ft	48.00 lb/ft	16.00 lb/ft
+++	13'- 3 3/8"	13'- 3 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	13'- 10 5/8"	28'- 8 7/8"	W9(i1)	8.00 lb/ft	32.00 lb/ft	-	-
+++	13'- 11 3/8"	15'- 3 3/8"	W9(i1)	112.00 lb/ft	46.00 lb/ft	48.00 lb/ft	14.00 lb/ft
+++	14'- 7 3/8"	14'- 7 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	15'- 3 3/8"	16'- 7 3/8"	W9(i1)	115.00 lb/ft	46.00 lb/ft	47.00 lb/ft	16.00 lb/ft
+++	15'- 11 3/8"	15'- 11 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	16'- 7 3/8"	17'- 11 3/8"	W9(i1)	112.00 lb/ft	46.00 lb/ft	50.00 lb/ft	16.00 lb/ft
+++	17'- 3 3/8"	17'- 3 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	17'- 11 3/8"	19'- 3 3/8"	W9(i1)	118.00 lb/ft	46.00 lb/ft	58.00 lb/ft	18.00 lb/ft
+++	18'- 2 5/8"	18'- 2 5/8"	W9(i1)	39.00 lb	-	-	-
+++	18'- 7 3/8"	18'- 7 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	19'- 3 3/8"	23'- 3 3/8"	W9(i1)	-	46.00 lb/ft	-	-
+++	19'- 7 3/8"	20'- 7 3/8"	W9(i1)	116.00 lb/ft	-	50.00 lb/ft	17.00 lb/ft
+++	19'- 11 3/8"	19'- 11 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	20'- 7 3/8"	21'- 11 3/8"	W9(i1)	112.00 lb/ft	-	50.00 lb/ft	16.00 lb/ft
+++	21'- 3 3/8"	21'- 3 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	21'- 11 3/8"	23'- 3 3/8"	W9(i1)	119.00 lb/ft	-	62.00 lb/ft	19.00 lb/ft
+++	22'- 7 3/8"	22'- 7 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	23'- 3 3/8"	24'- 7 3/8"	W9(i1)	112.00 lb/ft	46.00 lb/ft	52.00 lb/ft	16.00 lb/ft
+++	23'- 11 3/8"	23'- 11 3/8"	W9(i1)	-	-16.00 lb	-	-
+++	24'- 7 3/8"	25'- 11 3/8"	W9(i1)	109.00 lb/ft	46.00 lb/ft	54.00 lb/ft	14.00 lb/ft
+++	25'- 3 3/8"	25'- 3 3/8"	W9(i1)	-	-16.00 lb	-	-
+++	25'- 11 3/8"	27'- 3 3/8"	W9(i1)	142.00 lb/ft	46.00 lb/ft	80.00 lb/ft	28.00 lb/ft
+++	26'- 7 3/8"	26'- 7 3/8"	W9(i1)	-	-15.00 lb	-	-
+++	27'- 3 3/8"	28'- 7 3/8"	W9(i1)	88.00 lb/ft	44.00 lb/ft	16.00 lb/ft	5.00 lb/ft
+++	27'- 11 3/8"	27'- 11 3/8"	W9(i1)	-	-15.00 lb	-5.00 lb	-
+++	28'- 8 7/8"	29'- 1 3/8"	W10(i14)	73.00 lb/ft	-	-	-
+++	28'- 8 7/8"	29'- 3 3/4"	W10(i14)	11.00 lb/ft	32.00 lb/ft	-	-
+++	29'- 3 3/4"	29'- 3 3/4"	W10(i14)	1.00 lb	3.00 lb	-	-

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* 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.



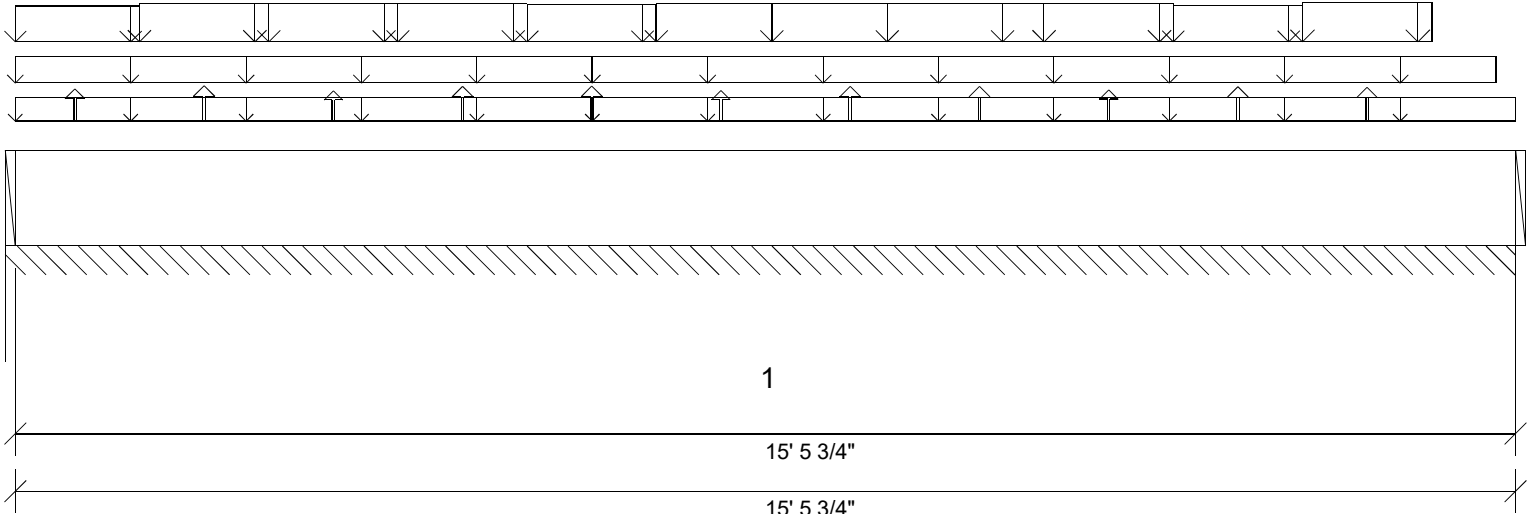
Job: 19110042  
 Member Type: ParallelClosure | Level: CRAWL  
 MiTek SAPPHERE™ Structure Version 8.3.2.221.Update4  
 Designed by Single Member Design Engine

Label: RIM-i1280

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 Date: 12/17/2019 08:54:48

Member: 1 - 1 1/8" x 11 7/8" APA Rim Board

Status: Design Passed



Graphical Illustration - Not To Scale  
 Member Cut Length - 15' 5 3/4"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Self Weight	0'	15'- 5 3/4"	Self Weight	3 lb/ft	-	-	-
Uniform	0'	15'- 5 3/4"	FC1 Floor Material	6 lb/ft	24 lb/ft	-	-
Uniform	-0'	15'- 3 3/8"	E18(i73)	73 lb/ft	-	-	-
Uniform	-0'	1'- 3 3/8"	E18(i73)	104 lb/ft	46 lb/ft	33 lb/ft	10 lb/ft
Uniform	1'- 3 3/8"	2'- 7 3/8"	E18(i73)	112 lb/ft	46 lb/ft	45 lb/ft	14 lb/ft
Uniform	2'- 7 3/8"	3'- 11 3/8"	E18(i73)	114 lb/ft	46 lb/ft	39 lb/ft	14 lb/ft
Uniform	3'- 11 3/8"	5'- 3 3/8"	E18(i73)	110 lb/ft	46 lb/ft	44 lb/ft	13 lb/ft
Uniform	5'- 3 3/8"	6'- 7 3/8"	E18(i73)	107 lb/ft	46 lb/ft	40 lb/ft	12 lb/ft
Uniform	6'- 7 3/8"	10'- 7 3/8"	-	111 lb/ft	46 lb/ft	43 lb/ft	14 lb/ft
Uniform	10'- 7 3/8"	11'- 11 3/8"	E18(i73)	113 lb/ft	47 lb/ft	44 lb/ft	14 lb/ft
Uniform	11'- 11 3/8"	13'- 3 3/8"	E18(i73)	104 lb/ft	46 lb/ft	38 lb/ft	11 lb/ft
Uniform	13'- 3 3/8"	14'- 7 3/8"	E18(i73)	127 lb/ft	47 lb/ft	48 lb/ft	15 lb/ft
Point	0'- 7 3/8"	0'- 7 3/8"	E18(i73)	-	-	-	-
Point	1'- 11 3/8"	1'- 11 3/8"	E18(i73)	-	-	-	-
Point	3'- 3 3/8"	3'- 3 3/8"	E18(i73)	-	-	-	-
Point	4'- 7 3/8"	4'- 7 3/8"	E18(i73)	-	-	-	-
Point	5'- 11 3/8"	5'- 11 3/8"	E18(i73)	-	-	-	-
Point	7'- 3 3/8"	7'- 3 3/8"	E18(i73)	-	-	-	-
Point	8'- 7 3/8"	8'- 7 3/8"	E18(i73)	-	-	-	-
Point	9'- 11 3/8"	9'- 11 3/8"	E18(i73)	-	-	-	-
Point	11'- 3 3/8"	11'- 3 3/8"	E18(i73)	-	-	-	-
Point	12'- 7 3/8"	12'- 7 3/8"	E18(i73)	-	-	-	-
Point	13'- 11 3/8"	13'- 11 3/8"	E18(i73)	-	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	15'- 5 3/4"	-	1390.00 lb	565.00 lb	458.00 lb	144.00 lb
+++	0'	0'	W11(i12)	1.00 lb	2.00 lb	-	-
+++	0'	14'- 10 7/8"	W11(i12)	9.00 lb/ft	24.00 lb/ft	-	-
+++	0'	1'- 3 3/8"	W11(i12)	104.00 lb/ft	46.00 lb/ft	33.00 lb/ft	10.00 lb/ft
+++	0'	14'- 10 7/8"	W11(i12)	73.00 lb/ft	-	-	-
+++	0'- 7 3/8"	0'- 7 3/8"	W11(i12)	-	-	-	-
+++	1'- 3 3/8"	2'- 7 3/8"	W11(i12)	112.00 lb/ft	46.00 lb/ft	45.00 lb/ft	14.00 lb/ft
+++	1'- 11 3/8"	1'- 11 3/8"	W11(i12)	-	-	-	-
+++	2'- 7 3/8"	3'- 11 3/8"	W11(i12)	114.00 lb/ft	46.00 lb/ft	39.00 lb/ft	14.00 lb/ft
+++	3'- 3 3/8"	3'- 3 3/8"	W11(i12)	-	-	-	-
+++	3'- 11 3/8"	5'- 3 3/8"	W11(i12)	110.00 lb/ft	46.00 lb/ft	44.00 lb/ft	13.00 lb/ft
+++	4'- 7 3/8"	4'- 7 3/8"	W11(i12)	-	-	-	-
+++	5'- 3 3/8"	6'- 7 3/8"	W11(i12)	107.00 lb/ft	46.00 lb/ft	40.00 lb/ft	12.00 lb/ft
+++	5'- 11 3/8"	5'- 11 3/8"	W11(i12)	-	-	-	-
+++	6'- 7 3/8"	7'- 11 3/8"	W11(i12)	112.00 lb/ft	46.00 lb/ft	43.00 lb/ft	14.00 lb/ft
+++	7'- 3 3/8"	7'- 3 3/8"	W11(i12)	-	-	-	-
+++	7'- 11 3/8"	9'- 3 3/8"	W11(i12)	111.00 lb/ft	46.00 lb/ft	43.00 lb/ft	14.00 lb/ft
+++	8'- 7 3/8"	8'- 7 3/8"	W11(i12)	-	-	-	-
+++	9'- 3 3/8"	10'- 7 3/8"	W11(i12)	111.00 lb/ft	46.00 lb/ft	43.00 lb/ft	14.00 lb/ft
+++	9'- 11 3/8"	9'- 11 3/8"	W11(i12)	-	-	-	-

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Actual field conditions may differ from those shown. These results should be reviewed by a qualified design professional.



Job: 19110042

Member Type: ParallelClosure | Level: CRAWL  
MiTek SAPPHIRE™ Structure Version 8.3.2.221.Update4  
Designed by Single Member Design Engine

Label: RIM-i1280

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Date: 12/17/2019 08:54:48

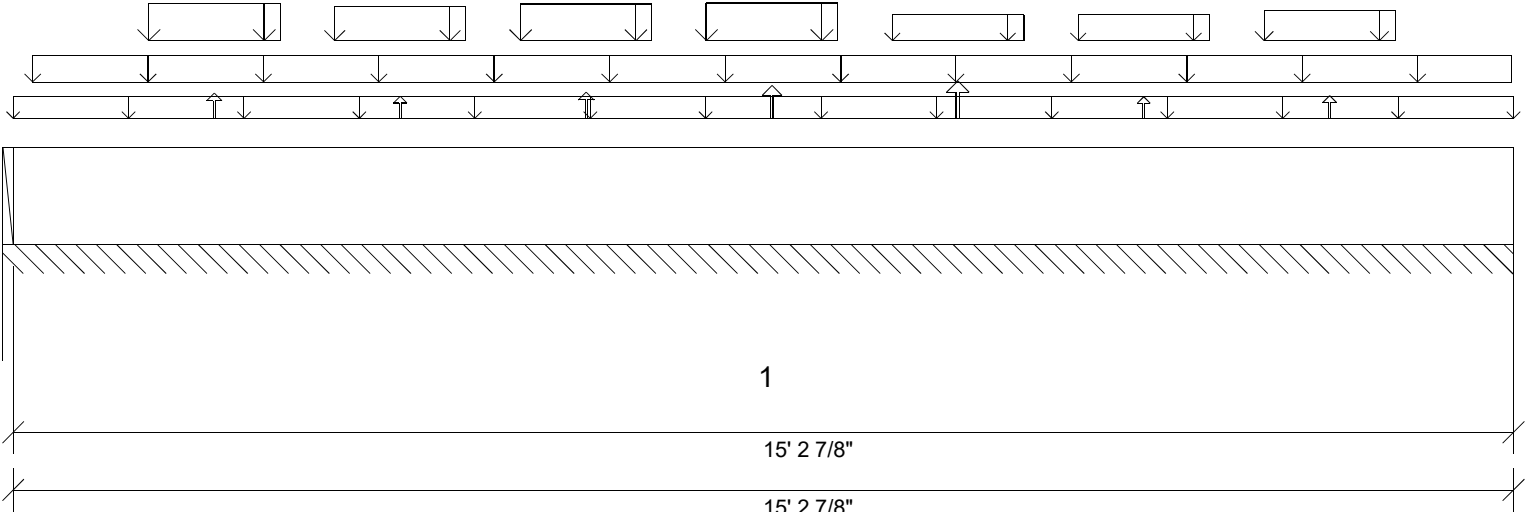
Member: 1 - 1 1/8" x 11 7/8" APA Rim Board

Status: Design Passed

++>	10'- 7 3/8"	11'- 11 3/8"	W11(i12)	113.00 lb/ft	47.00 lb/ft	44.00 lb/ft	14.00 lb/ft
++>	11'- 3 3/8"	11'- 3 3/8"	W11(i12)	-	-	-	-
++>	11'- 11 3/8"	13'- 3 3/8"	W11(i12)	104.00 lb/ft	46.00 lb/ft	38.00 lb/ft	11.00 lb/ft
++>	12'- 7 3/8"	12'- 7 3/8"	W11(i12)	-	-	-	-
++>	13'- 3 3/8"	14'- 7 3/8"	W11(i12)	127.00 lb/ft	47.00 lb/ft	48.00 lb/ft	15.00 lb/ft
++>	13'- 11 3/8"	13'- 11 3/8"	W11(i12)	-	-	-	-
++>	14'- 10 7/8"	15'- 5 3/4"	W10(i14)	9.00 lb/ft	24.00 lb/ft	-	-
++>	14'- 10 7/8"	15'- 3 3/8"	W10(i14)	73.00 lb/ft	-	-	-
++>	15'- 5 3/4"	15'- 5 3/4"	W10(i14)	1.00 lb	2.00 lb	-	-

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* 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.



Graphical Illustration - Not To Scale  
 Member Cut Length - 15' 2 7/8"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Self Weight	0'	15'- 2 7/8"	Self Weight	3 lb/ft	-	-	-
Uniform	0'	15'- 2 7/8"	FC1 Floor Material	1 lb/ft	6 lb/ft	-	-
Uniform	0'- 2 3/8"	15'- 2 5/8"	25(i1305)	73 lb/ft	-	-	-
Uniform	1'- 4 9/16"	2'- 8 1/2"	25(i1305)	64 lb/ft	124 lb/ft	17 lb/ft	8 lb/ft
Uniform	3'- 3 3/16"	4'- 7 3/16"	25(i1305)	46 lb/ft	122 lb/ft	3 lb/ft	2 lb/ft
Uniform	5'- 1 7/8"	6'- 5 13/16"	25(i1305)	46 lb/ft	160 lb/ft	1 lb/ft	-
Uniform	7'- 1/2"	8'- 4 1/2"	25(i1305)	59 lb/ft	157 lb/ft	-	-
Uniform	8'- 11 3/16"	10'- 3 1/8"	25(i1305)	-	58 lb/ft	-	-
Uniform	10'- 9 13/16"	12'- 1 13/16"	25(i1305)	-	58 lb/ft	-	-
Uniform	12'- 8 1/2"	14'- 7/16"	25(i1305)	-	118 lb/ft	-	-
Point	2'- 1/2"	2'- 1/2"	25(i1305)	-	-	-	-
Point	3'- 11 3/16"	3'- 11 3/16"	25(i1305)	-	-	-	-
Point	5'- 9 13/16"	5'- 9 13/16"	25(i1305)	-	-36.00 lb	-	-
Point	7'- 8 1/2"	7'- 8 1/2"	25(i1305)	-	-88.00 lb	-	-
Point	9'- 7 1/8"	9'- 7 1/8"	25(i1305)	-37.00 lb	-86.00 lb	-	-
Point	11'- 5 13/16"	11'- 5 13/16"	25(i1305)	-	-	-1.00 lb	-
Point	13'- 4 7/16"	13'- 4 7/16"	25(i1305)	-	-	-6.00 lb	-2.00 lb

**Support Information:**

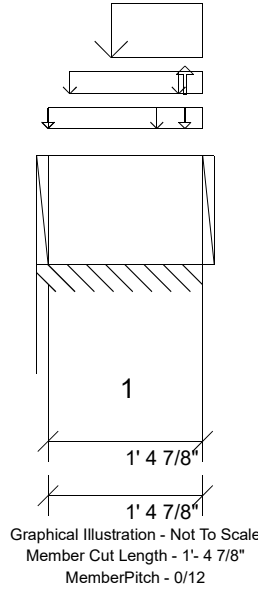
Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	15'- 2 7/8"	-	370.00/-37.00 lb	810.00/-210.00 lb	21.00/-7.00 lb	9.00/-2.00 lb
+++	0'	0'	W6(i4)	-	-	-	-
+++	0'	0'- 6 7/8"	W6(i4)	4.00 lb/ft	6.00 lb/ft	-	-
+++	0'- 2 3/8"	0'- 6 7/8"	W6(i4)	73.00 lb/ft	-	-	-
+++	0'- 6 7/8"	15'- 2 7/8"	W16(i16)	4.00 lb/ft	6.00 lb/ft	-	-
+++	0'- 6 7/8"	15'- 2 5/8"	W16(i16)	73.00 lb/ft	-	-	-
+++	1'- 4 9/16"	2'- 8 9/16"	W16(i16)	64.00 lb/ft	124.00 lb/ft	17.00 lb/ft	8.00 lb/ft
+++	2'- 1/2"	2'- 1/2"	W16(i16)	-	-	-	-
+++	3'- 3 3/16"	4'- 7 3/16"	W16(i16)	46.00 lb/ft	122.00 lb/ft	3.00 lb/ft	2.00 lb/ft
+++	3'- 11 3/16"	3'- 11 3/16"	W16(i16)	-	-	-	-
+++	5'- 1 7/8"	6'- 5 7/8"	W16(i16)	46.00 lb/ft	160.00 lb/ft	1.00 lb/ft	-
+++	5'- 9 13/16"	5'- 9 13/16"	W16(i16)	-	-36.00 lb	-	-
+++	7'- 1/2"	8'- 4 1/2"	W16(i16)	59.00 lb/ft	157.00 lb/ft	-	-
+++	7'- 8 1/2"	7'- 8 1/2"	W16(i16)	-	-88.00 lb	-	-
+++	8'- 11 3/16"	10'- 3 1/8"	W16(i16)	-	58.00 lb/ft	-	-
+++	9'- 7 1/8"	9'- 7 1/8"	W16(i16)	-37.00 lb	-86.00 lb	-	-
+++	10'- 9 13/16"	12'- 1 13/16"	W16(i16)	-	58.00 lb/ft	-	-
+++	11'- 5 13/16"	11'- 5 13/16"	W16(i16)	-	-	-1.00 lb	-
+++	12'- 8 1/2"	14'- 7/16"	W16(i16)	-	118.00 lb/ft	-	-
+++	13'- 4 7/16"	13'- 4 7/16"	W16(i16)	-	-	-6.00 lb	-2.00 lb

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* 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.

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Actual field conditions may differ from those shown. These results should be reviewed by a qualified design professional.



**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

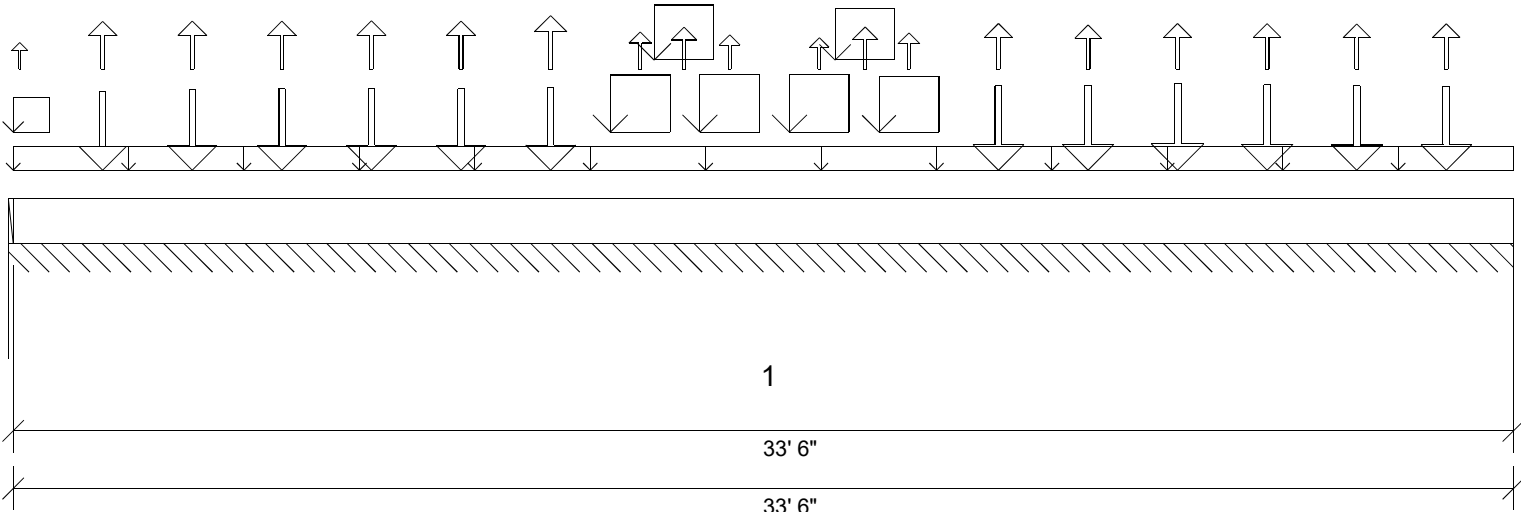
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Self Weight	0'	1'- 4 7/8"	Self Weight	3 lb/ft	-	-	-
Uniform	0'	1'- 4 7/8"	FC1 Floor Material	6 lb/ft	23 lb/ft	-	-
Uniform	0'- 2 3/8"	1'- 4 7/8"	E10(i76)	73 lb/ft	-	-	-
Uniform	0'- 6 7/8"	1'- 4 7/8"	E10(i76)	443 lb/ft	22 lb/ft	406 lb/ft	170 lb/ft
Point	0'	0'	FC1 Floor Material	-	2.00 lb	-	-
Point	1'- 2 15/16"	1'- 2 15/16"	-	-	2.00 lb	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 7/8"	-	607.00 lb	71.00 lb	406.00 lb	170.00 lb
++>	0'	0'	W6(i4)	-	2.00 lb	-	-
++>	0'	0'- 6 7/8"	W6(i4)	9.00 lb/ft	23.00 lb/ft	-	-
++>	0'- 2 3/8"	0'- 6 7/8"	W6(i4)	73.00 lb/ft	-	-	-
++>	0'- 6 7/8"	1'- 4 7/8"	W7(i7)	516.00 lb/ft	22.00 lb/ft	406.00 lb/ft	170.00 lb/ft
++>	0'- 6 7/8"	1'- 4 7/8"	W7(i7)	9.00 lb/ft	23.00 lb/ft	-	-
++>	1'- 2 7/8"	1'- 2 7/8"	W7(i7)	-	-	-	-
++>	1'- 4 5/8"	1'- 4 5/8"	W7(i7)	-	1.00 lb	-	-

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* 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.



Graphical Illustration - Not To Scale  
 Member Cut Length - 33'- 6"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft²	Roof Dead Load:	10.0 lb/ft²	Ground Snow Load:	20.0 lb/ft²
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft²	Roof Live Load:	20.0 lb/ft²		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	33'- 6"	E13(i72)	73 lb/ft	-	-	-
Uniform	0'	0'- 9 3/4"	E13(i72)	256 lb/ft	-	150 lb/ft	64 lb/ft
Uniform	13'- 4"	14'- 8"	E13(i72)	572 lb/ft	296 lb/ft	313 lb/ft	131 lb/ft
Uniform	14'- 3 3/4"	15'- 7 3/4"	E13(i72)	524 lb/ft	261 lb/ft	308 lb/ft	129 lb/ft
Uniform	15'- 4"	16'- 8"	E13(i72)	524 lb/ft	312 lb/ft	328 lb/ft	137 lb/ft
Uniform	17'- 4"	18'- 8"	E13(i72)	522 lb/ft	312 lb/ft	332 lb/ft	139 lb/ft
Uniform	18'- 4 1/4"	19'- 8 1/4"	E13(i72)	443 lb/ft	142 lb/ft	339 lb/ft	142 lb/ft
Uniform	19'- 4"	20'- 8"	E13(i72)	487 lb/ft	298 lb/ft	320 lb/ft	134 lb/ft
Point	0'- 1 3/4"	0'- 1 3/4"	E13(i72)	-	-	-4.00 lb	-
Point	2'	2'	E13(i72)	871.00 lb	530.00/-225.00 lb	582.00 lb	244.00 lb
Point	4'	4'	E13(i72)	916.00 lb	530.00/-225.00 lb	628.00 lb	262.00 lb
Point	6'	6'	E13(i72)	920.00 lb	530.00/-225.00 lb	636.00 lb	264.00 lb
Point	8'	8'	E13(i72)	926.00 lb	530.00/-225.00 lb	650.00 lb	268.00 lb
Point	10'	10'	E13(i72)	919.00 lb	530.00/-225.00 lb	635.00 lb	265.00 lb
Point	12'	12'	E13(i72)	932.00 lb	530.00/-225.00 lb	661.00 lb	276.00 lb
Point	14'	14'	E13(i72)	-	-168.00 lb	-	-
Point	14'- 11 3/4"	14'- 11 3/4"	E13(i72)	-	-48.00 lb	-	-
Point	16'	16'	E13(i72)	-	-	-	-
Point	18'	18'	E13(i72)	-	-	-	-
Point	19'- 1/4"	19'- 1/4"	E13(i72)	-	-	-	-
Point	20'	20'	E13(i72)	-	-58.00 lb	-1.00 lb	-
Point	22'	22'	E13(i72)	954.00 lb	534.00/-75.00 lb	686.00 lb	287.00 lb
Point	24'	24'	E13(i72)	976.00 lb	515.00 lb	701.00 lb	293.00 lb
Point	26'	26'	E13(i72)	981.00 lb	534.00/-75.00 lb	725.00/-1.00 lb	304.00 lb
Point	28'	28'	E13(i72)	962.00 lb	534.00/-75.00 lb	701.00/-1.00 lb	294.00 lb
Point	30'	30'	E13(i72)	953.00 lb	534.00/-75.00 lb	685.00/-1.00 lb	286.00 lb
Point	32'	32'	E13(i72)	955.00 lb	534.00/-75.00 lb	668.00/-1.00 lb	279.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	33'- 6"	W10(i14)	18016.00 lb	8556.00/-2007.00 lb	10667.00/-9.00 lb	4458.00 lb
==>	0'	0'- 9 3/4"	W10(i14)	256.00 lb/ft	33.00 lb/ft	150.00 lb/ft	64.00 lb/ft
==>	0'	33'- 6"	W10(i14)	73.00 lb/ft	-	-	-
==>	0'- 1 3/4"	0'- 1 3/4"	W10(i14)	-	-6.00 lb	-4.00 lb	-
==>	2'	2'	W10(i14)	871.00 lb	530.00/-225.00 lb	582.00 lb	244.00 lb
==>	4'	4'	W10(i14)	916.00 lb	530.00/-225.00 lb	628.00 lb	262.00 lb
==>	6'	6'	W10(i14)	920.00 lb	530.00/-225.00 lb	636.00 lb	264.00 lb
==>	8'	8'	W10(i14)	926.00 lb	530.00/-225.00 lb	650.00 lb	268.00 lb
==>	10'	10'	W10(i14)	919.00 lb	530.00/-225.00 lb	635.00 lb	265.00 lb
==>	12'	12'	W10(i14)	932.00 lb	530.00/-225.00 lb	661.00 lb	276.00 lb
==>	13'- 4"	14'- 8"	W10(i14)	572.00 lb/ft	296.00 lb/ft	313.00 lb/ft	131.00 lb/ft
==>	14'	14'	W10(i14)	-	-168.00 lb	-	-
==>	14'- 3 3/4"	15'- 7 3/4"	W10(i14)	524.00 lb/ft	261.00 lb/ft	308.00 lb/ft	129.00 lb/ft
==>	14'- 11 3/4"	14'- 11 3/4"	W10(i14)	-	-48.00 lb	-	-
==>	15'- 4"	16'- 8"	W10(i14)	524.00 lb/ft	312.00 lb/ft	328.00 lb/ft	137.00 lb/ft
==>	16'	16'	W10(i14)	-	-1.00 lb	-	-

- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.

- This report is based on modeled conditions input by the user. Actual field conditions may differ from those shown. These results should be reviewed by a qualified design professional.



**Job: 19110042**  
 Member Type: Rimboard | Level: CRAWL  
 MiTek SAPPHIRE™ Structure Version 8.3.2.221.Update4  
 Designed by Single Member Design Engine

**Label: RIM-i1184**

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 Date: 12/17/2019 08:54:48

**Member: 1 - 1 1/8" x 11 7/8" APA Rim Board**

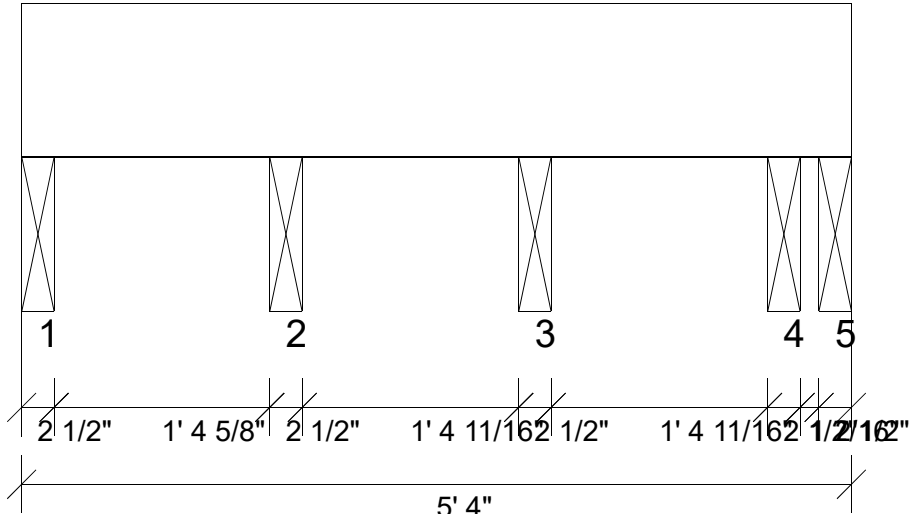
**Status: Design Passed**

==>	17'- 4"	18'- 8"	W10(i14)	522.00 lb/ft	312.00 lb/ft	332.00 lb/ft	139.00 lb/ft
==>	18'	18'	W10(i14)	-	-	-	-
==>	18'- 4 1/4"	19'- 8 1/4"	W10(i14)	443.00 lb/ft	142.00 lb/ft	339.00 lb/ft	142.00 lb/ft
==>	19'- 1/4"	19'- 1/4"	W10(i14)	-	-1.00 lb	-	-
==>	19'- 4"	20'- 8"	W10(i14)	487.00 lb/ft	298.00 lb/ft	320.00 lb/ft	134.00 lb/ft
==>	20'	20'	W10(i14)	-	-58.00 lb	-1.00 lb	-
==>	22'	22'	W10(i14)	954.00 lb	534.00/-75.00 lb	686.00 lb	287.00 lb
==>	24'	24'	W10(i14)	976.00 lb	515.00 lb	701.00 lb	293.00 lb
==>	26'	26'	W10(i14)	981.00 lb	534.00/-75.00 lb	725.00/-1.00 lb	304.00 lb
==>	28'	28'	W10(i14)	962.00 lb	534.00/-75.00 lb	701.00/-1.00 lb	294.00 lb
==>	30'	30'	W10(i14)	953.00 lb	534.00/-75.00 lb	685.00/-1.00 lb	286.00 lb
==>	32'	32'	W10(i14)	955.00 lb	534.00/-75.00 lb	668.00/-1.00 lb	279.00 lb

**Errors, Warnings & Notes:**

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





Graphical Illustration - Not To Scale  
 Member Cut Length - 5'- 4"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 1'- 4 11/16"	

**Loading:**

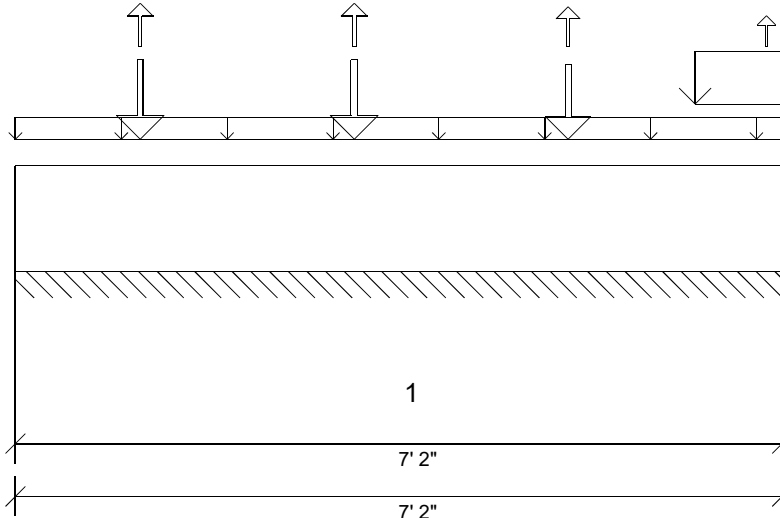
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Self Weight	0'	5'- 4"	Self Weight	3 lb/ft	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 2 1/2"	J18-1(i1170)				
2	1'- 7 1/8"	1'- 9 5/8"	J18-1(i1164)				
3	3'- 2 5/16"	3'- 4 13/16"	J18-1(i1164)				
4	4'- 9 9/16"	5'- 1/16"	J18-1(i1178)				
5	5'- 1 1/2"	5'- 4"	J18-1(i1157)				

**Errors, Warnings & Notes:**

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- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
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Graphical Illustration - Not To Scale  
 Member Cut Length - 7'- 2"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

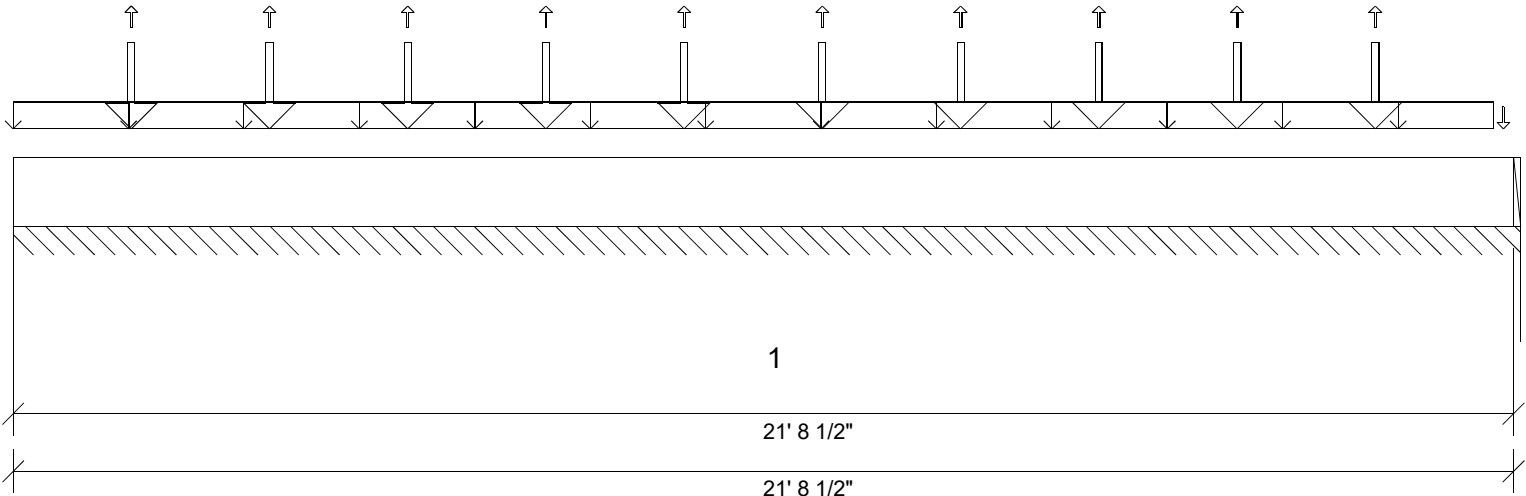
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	7'- 2"	E17(i85)	73 lb/ft	-	-	-
Uniform	6'- 4 1/4"	7'- 2"	E17(i85)	500 lb/ft	41 lb/ft	353 lb/ft	148 lb/ft
Point	1'- 2"	1'- 2"	E17(i85)	937.00 lb	534.00/-75.00 lb	653.00/-1.00 lb	273.00 lb
Point	3'- 2"	3'- 2"	E17(i85)	937.00 lb	534.00/-75.00 lb	653.00/-1.00 lb	273.00 lb
Point	5'- 2"	5'- 2"	E17(i85)	888.00 lb	534.00/-75.00 lb	568.00 lb	238.00 lb
Point	7'- 1/4"	7'- 1/4"	E17(i85)	-	-4.00 lb	-3.00 lb	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	7'- 2"	W10(i14)	3691.00 lb	1635.00/-229.00 lb	2161.00/-5.00 lb	904.00 lb
==>	-0'	7'- 2"	W10(i14)	73.00 lb/ft	-	-	-
==>	1'- 2"	1'- 2"	W10(i14)	937.00 lb	534.00/-75.00 lb	653.00/-1.00 lb	273.00 lb
==>	3'- 2"	3'- 2"	W10(i14)	937.00 lb	534.00/-75.00 lb	653.00/-1.00 lb	273.00 lb
==>	5'- 2"	5'- 2"	W10(i14)	888.00 lb	534.00/-75.00 lb	568.00 lb	238.00 lb
==>	6'- 4 1/4"	7'- 2"	W10(i14)	500.00 lb/ft	41.00 lb/ft	353.00 lb/ft	148.00 lb/ft
==>	7'- 1/4"	7'- 1/4"	W10(i14)	-	-4.00 lb	-3.00 lb	-

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* 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.



Graphical Illustration - Not To Scale  
 Member Cut Length - 21'- 8 1/2"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Loading:**

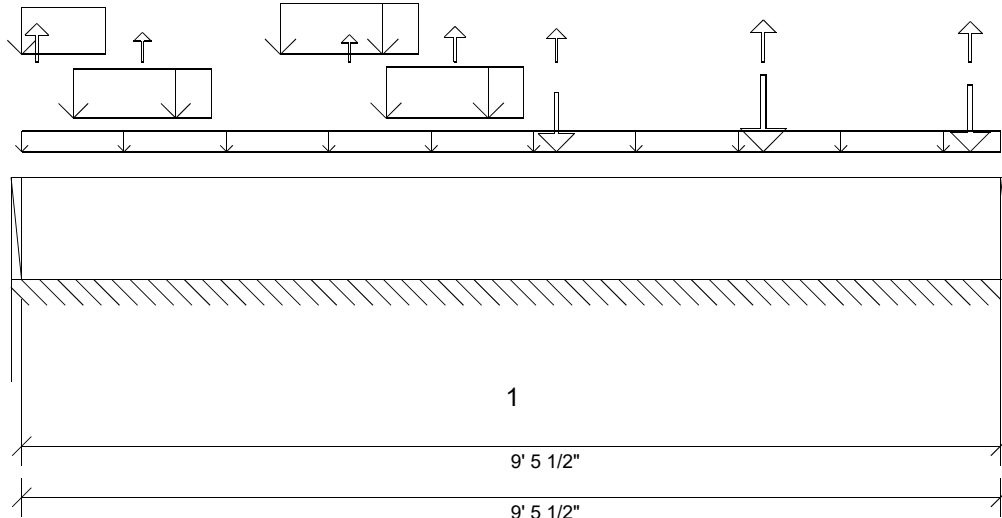
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	21'- 5"	1(i87)	73 lb/ft	-	-	-
Point	1'- 8 1/2"	1'- 8 1/2"	1(i87)	584.00 lb	1531.00 lb	11.00 lb	4.00 lb
Point	3'- 8 1/2"	3'- 8 1/2"	1(i87)	584.00 lb	1531.00 lb	10.00 lb	4.00 lb
Point	5'- 8 1/2"	5'- 8 1/2"	1(i87)	584.00 lb	1531.00 lb	10.00 lb	4.00 lb
Point	7'- 8 1/2"	7'- 8 1/2"	1(i87)	584.00 lb	1531.00 lb	9.00 lb	4.00 lb
Point	9'- 8 1/2"	9'- 8 1/2"	1(i87)	584.00 lb	1531.00 lb	9.00 lb	4.00 lb
Point	11'- 8 1/2"	11'- 8 1/2"	1(i87)	584.00 lb	1531.00 lb	8.00 lb	3.00 lb
Point	13'- 8 1/2"	13'- 8 1/2"	1(i87)	583.00 lb	1531.00 lb	8.00 lb	3.00 lb
Point	15'- 8 1/2"	15'- 8 1/2"	1(i87)	583.00 lb	1531.00 lb	8.00 lb	3.00 lb
Point	17'- 8 1/2"	17'- 8 1/2"	1(i87)	583.00 lb	1531.00 lb	8.00 lb	3.00 lb
Point	19'- 8 1/2"	19'- 8 1/2"	1(i87)	582.00 lb	1531.00 lb	7.00 lb	3.00 lb
Point	21'- 6 3/4"	21'- 6 3/4"	E18(i73)	-	-	3.00 lb	1.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	21'- 8 1/2"	-	5998.00 lb	15314.00 lb	91.00 lb	36.00 lb
+++	0'	21'- 1/2"	W15(i15)	73.00 lb/ft	-	-	-
+++	1'- 8 1/2"	1'- 8 1/2"	W15(i15)	584.00 lb	1531.00 lb	11.00 lb	4.00 lb
+++	3'- 8 1/2"	3'- 8 1/2"	W15(i15)	584.00 lb	1531.00 lb	10.00 lb	4.00 lb
+++	5'- 8 1/2"	5'- 8 1/2"	W15(i15)	584.00 lb	1531.00 lb	10.00 lb	4.00 lb
+++	7'- 8 1/2"	7'- 8 1/2"	W15(i15)	584.00 lb	1531.00 lb	9.00 lb	4.00 lb
+++	9'- 8 1/2"	9'- 8 1/2"	W15(i15)	584.00 lb	1531.00 lb	9.00 lb	4.00 lb
+++	11'- 8 1/2"	11'- 8 1/2"	W15(i15)	584.00 lb	1531.00 lb	8.00 lb	3.00 lb
+++	13'- 8 1/2"	13'- 8 1/2"	W15(i15)	583.00 lb	1531.00 lb	8.00 lb	3.00 lb
+++	15'- 8 1/2"	15'- 8 1/2"	W15(i15)	583.00 lb	1531.00 lb	8.00 lb	3.00 lb
+++	17'- 8 1/2"	17'- 8 1/2"	W15(i15)	583.00 lb	1531.00 lb	8.00 lb	3.00 lb
+++	19'- 8 1/2"	19'- 8 1/2"	W15(i15)	582.00 lb	1531.00 lb	7.00 lb	3.00 lb
+++	21'- 1/2"	21'- 5"	W11(i12)	73.00 lb/ft	-	-	-
+++	21'- 6 3/4"	21'- 6 3/4"	W11(i12)	17.00 lb	4.00 lb	3.00 lb	1.00 lb

**Errors, Warnings & Notes:**

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Graphical Illustration - Not To Scale  
 Member Cut Length - 9'- 5 1/2"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

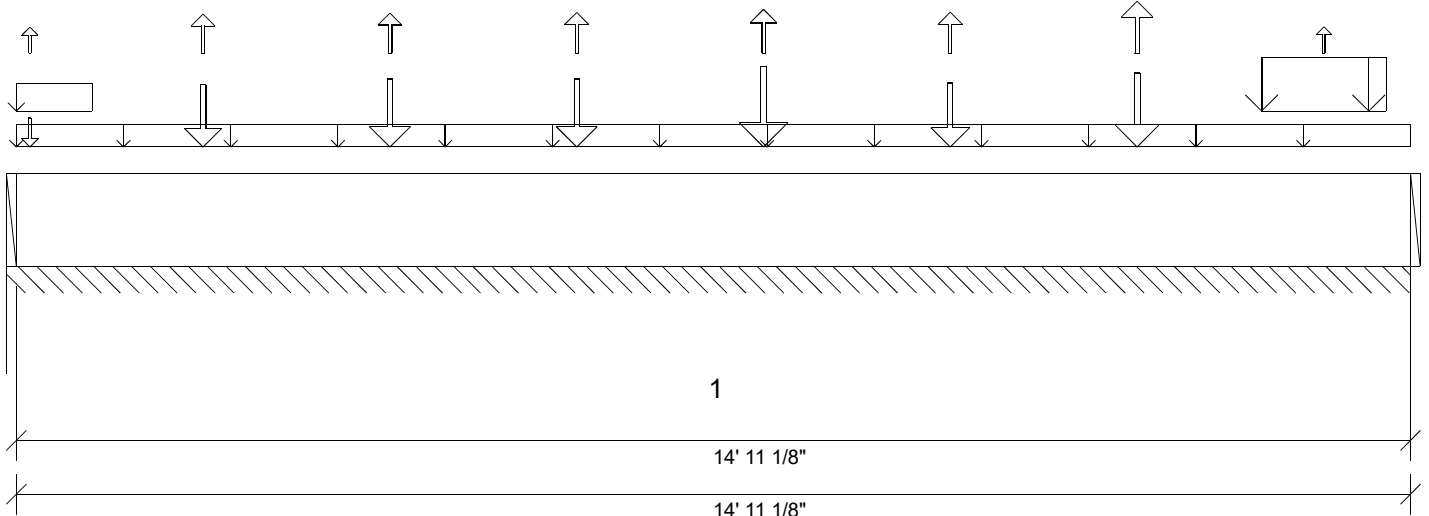
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	-0'	9'- 5 1/2"	E9(i75)	73 lb/ft	-	-	-
Uniform	-0'	0'- 9 3/4"	E9(i75)	498 lb/ft	22 lb/ft	416 lb/ft	175 lb/ft
Uniform	0'- 6"	1'- 10"	E9(i75)	481 lb/ft	122 lb/ft	400 lb/ft	195 lb/ft
Uniform	2'- 6"	3'- 10"	E9(i75)	518 lb/ft	118 lb/ft	447 lb/ft	214 lb/ft
Uniform	3'- 6 1/4"	4'- 10 1/4"	E9(i75)	506 lb/ft	177 lb/ft	427 lb/ft	178 lb/ft
Point	0'- 1 3/4"	0'- 1 3/4"	E9(i75)	-	-	-	-
Point	1'- 2"	1'- 2"	E9(i75)	-	-	-5.00 lb	-
Point	3'- 2"	3'- 2"	E9(i75)	-	-	-5.00 lb	-
Point	4'- 2 1/4"	4'- 2 1/4"	E9(i75)	-	-	-	-
Point	5'- 2"	5'- 2"	E9(i75)	822.00 lb	405.00/-56.00 lb	694.00/-9.00 lb	326.00 lb
Point	7'- 2"	7'- 2"	E9(i75)	1155.00 lb	533.00/-76.00 lb	1029.00/-9.00 lb	466.00 lb
Point	9'- 2"	9'- 2"	E9(i75)	1000.00 lb	78.00/-5.00 lb	1023.00 lb	457.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	9'- 5 1/2"	W6(i4)	6080.00 lb	1590.00/-137.00 lb	4783.00/-28.00 lb	2174.00 lb
==>	0'	0'- 9 3/4"	W6(i4)	498.00 lb/ft	22.00 lb/ft	416.00 lb/ft	175.00 lb/ft
==>	-0'	9'- 5 1/2"	W6(i4)	73.00 lb/ft	-	-	-
==>	0'- 1 3/4"	0'- 1 3/4"	W6(i4)	-	-	-	-
==>	0'- 6"	1'- 10"	W6(i4)	481.00 lb/ft	122.00 lb/ft	400.00 lb/ft	195.00 lb/ft
==>	1'- 2"	1'- 2"	W6(i4)	-	-	-5.00 lb	-
==>	2'- 6"	3'- 10"	W6(i4)	518.00 lb/ft	118.00 lb/ft	447.00 lb/ft	214.00 lb/ft
==>	3'- 2"	3'- 2"	W6(i4)	-	-	-5.00 lb	-
==>	3'- 6 1/4"	4'- 10 1/4"	W6(i4)	506.00 lb/ft	177.00 lb/ft	427.00 lb/ft	178.00 lb/ft
==>	4'- 2 1/4"	4'- 2 1/4"	W6(i4)	-	-	-	-
==>	5'- 2"	5'- 2"	W6(i4)	822.00 lb	405.00/-56.00 lb	694.00/-9.00 lb	326.00 lb
==>	7'- 2"	7'- 2"	W6(i4)	1155.00 lb	533.00/-76.00 lb	1029.00/-9.00 lb	466.00 lb
==>	9'- 2"	9'- 2"	W6(i4)	1000.00 lb	78.00/-5.00 lb	1023.00 lb	457.00 lb

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
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Graphical Illustration - Not To Scale  
 Member Cut Length - 14'- 11 1/8"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

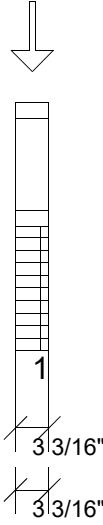
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	14'- 11 1/8"	E11(i86)	73 lb/ft	-	-	-
Uniform	0'	0'- 9 3/4"	E11(i86)	127 lb/ft	-	75 lb/ft	-
Uniform	13'- 4"	14'- 8"	E11(i86)	448 lb/ft	277 lb/ft	138 lb/ft	98 lb/ft
Point	0'- 1 3/4"	0'- 1 3/4"	E11(i86)	243.00 lb	-	159.00/-7.00 lb	121.00 lb
Point	2'	2'	E11(i86)	948.00 lb	484.00/-210.00 lb	693.00/-4.00 lb	346.00 lb
Point	4'	4'	E11(i86)	1061.00 lb	484.00/-210.00 lb	875.00/-4.00 lb	404.00 lb
Point	6'	6'	E11(i86)	1038.00 lb	484.00/-210.00 lb	866.00/-4.00 lb	397.00 lb
Point	8'	8'	E11(i86)	1268.00 lb	484.00/-210.00 lb	1222.00/-4.00 lb	515.00 lb
Point	10'	10'	E11(i86)	970.00 lb	484.00/-210.00 lb	776.00/-4.00 lb	363.00 lb
Point	12'	12'	E11(i86)	1163.00 lb	484.00/-210.00 lb	1026.00/-4.00 lb	476.00 lb
Point	14'	14'	E11(i86)	-	-162.00 lb	-4.00 lb	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	14'- 11 1/8"	W8(i11)	8481.00 lb	3300.00/-1428.00 lb	5862.00/-35.00 lb	2779.00 lb
==>	0'	0'- 9 3/4"	W8(i11)	127.00 lb/ft	16.00 lb/ft	75.00 lb/ft	32.00 lb/ft
==>	0'	14'- 11 1/8"	W8(i11)	73.00 lb/ft	-	-	-
==>	0'- 1 1/2"	0'- 1 1/2"	W8(i11)	243.00 lb	13.00/-3.00 lb	159.00/-5.00 lb	121.00 lb
==>	0'- 1 3/4"	0'- 1 3/4"	W8(i11)	-	-3.00 lb	-2.00 lb	-
==>	2'	2'	W8(i11)	948.00 lb	484.00/-210.00 lb	693.00/-4.00 lb	346.00 lb
==>	4'	4'	W8(i11)	1061.00 lb	484.00/-210.00 lb	875.00/-4.00 lb	404.00 lb
==>	6'	6'	W8(i11)	1038.00 lb	484.00/-210.00 lb	866.00/-4.00 lb	397.00 lb
==>	8'	8'	W8(i11)	1268.00 lb	484.00/-210.00 lb	1222.00/-4.00 lb	515.00 lb
==>	10'	10'	W8(i11)	970.00 lb	484.00/-210.00 lb	776.00/-4.00 lb	363.00 lb
==>	12'	12'	W8(i11)	1163.00 lb	484.00/-210.00 lb	1026.00/-4.00 lb	476.00 lb
==>	13'- 4"	14'- 8"	W8(i11)	448.00 lb/ft	277.00 lb/ft	138.00 lb/ft	98.00 lb/ft
==>	14'	14'	W8(i11)	-	-162.00 lb	-4.00 lb	-
==>	14'- 4 13/16"	14'- 4 13/16"	W8(i11)	-	1.00 lb	-	-

**Errors, Warnings & Notes:**

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



Graphical Illustration - Not To Scale  
 Member Cut Length - 0'- 3 3/16"  
 MemberPitch - 0/12

**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

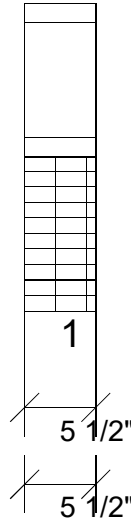
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Point	0'- 1 5/8"	0'- 1 5/8"	4(i90)	114.00 lb	224.00 lb	1.00 lb	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 3 3/16"	DB1-2(i1171)	114.00 lb	224.00 lb	1.00 lb	-

**Errors, Warnings & Notes:**

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- \* 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.
- \* Distributed dead load(s) applied along member length displayed as projected loads



Graphical Illustration - Not To Scale  
 Member Cut Length - 0'- 5 1/2"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Loading:**

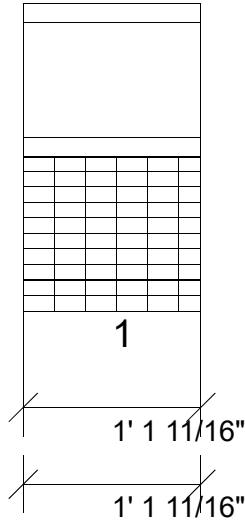
Loading has not been established for this member.

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 5 1/2"	DB1-2(i1171)				

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* 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.
- \* Distributed dead load(s) applied along member length displayed as projected loads



Graphical Illustration - Not To Scale  
 Member Cut Length - 1'- 1 11/16"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Loading:**

Loading has not been established for this member.

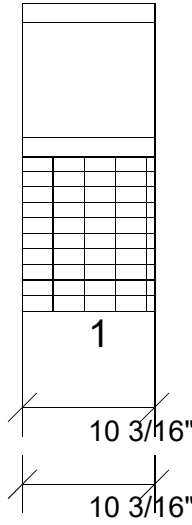
**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 1 11/16"	DB1-2(i1171)				

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
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- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.





Graphical Illustration - Not To Scale  
 Member Cut Length - 0'- 10 3/16"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Loading:**

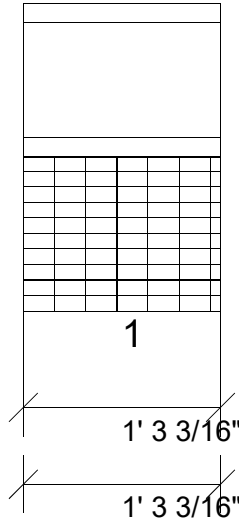
Loading has not been established for this member.

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	0'- 10 3/16"	DB1-2(i1171)				

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
- \* 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.
- \* Distributed dead load(s) applied along member length displayed as projected loads



Graphical Illustration - Not To Scale  
 Member Cut Length - 1'- 3 3/16"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Loading:**

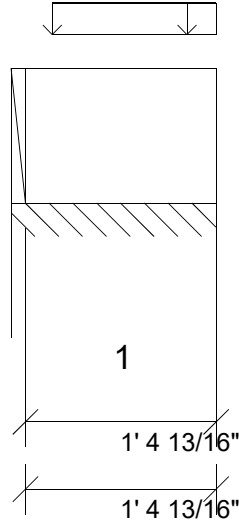
Loading has not been established for this member.

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 3 3/16"	DB1-2(i1171)				

**Errors, Warnings & Notes:**

- \* The dead loads used in the design of this member were applied to the structure as projected dead loads.
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Graphical Illustration - Not To Scale  
 Member Cut Length - 1'- 4 13/16"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Loading:**

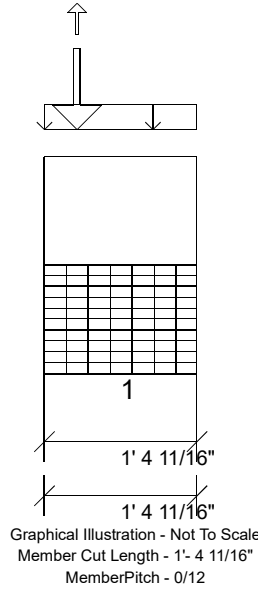
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'- 2 3/8"	1'- 4 13/16"	4(i90)	73 lb/ft	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 13/16"	-	146.00 lb	-	-	-
++>	0'- 3 3/8"	0'- 3 3/8"	W9(i1)	12.00 lb	-	-	-
++>	0'- 4 3/8"	1'- 4 13/16"	DB1-2(i1171)	73.00 lb/ft	-	-	-

**Errors, Warnings & Notes:**

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



**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length Top:	0'	Bottom:	0'		

**Loading:**

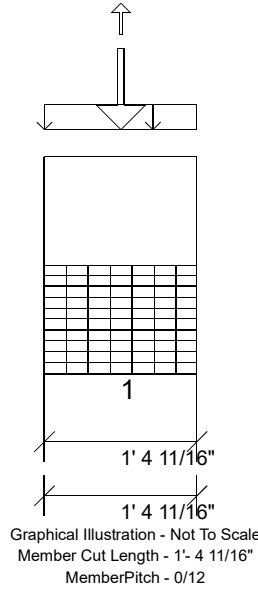
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	1'- 4 11/16"	4(i90)	73 lb/ft	-	-	-
Point	0'- 3 9/16"	0'- 3 9/16"	4(i90)	555.00 lb	1457.00/-364.00 lb	8.00 lb	4.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 11/16"	DB1-2(i1171)	657.00 lb	1457.00/-364.00 lb	8.00 lb	4.00 lb
==>	0'	1'- 4 11/16"	DB1-2(i1171)	73.00 lb/ft	-	-	-
==>	0'- 3 9/16"	0'- 3 9/16"	DB1-2(i1171)	555.00 lb	1457.00/-364.00 lb	8.00 lb	4.00 lb

**Errors, Warnings & Notes:**

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



**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

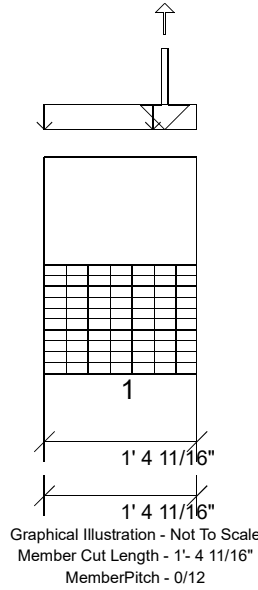
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	1'- 4 11/16"	4(i90)	73 lb/ft	-	-	-
Point	0'- 8 3/8"	0'- 8 3/8"	4(i90)	556.00 lb	1457.00/-364.00 lb	10.00 lb	4.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 11/16"	DB1-2(i1171)	658.00 lb	1457.00/-364.00 lb	10.00 lb	4.00 lb
==>	0'	1'- 4 11/16"	DB1-2(i1171)	73.00 lb/ft	-	-	-
==>	0'- 8 3/8"	0'- 8 3/8"	DB1-2(i1171)	556.00 lb	1457.00/-364.00 lb	10.00 lb	4.00 lb

**Errors, Warnings & Notes:**

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**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

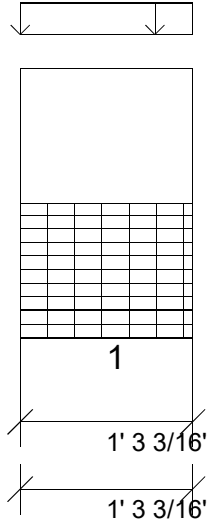
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	1'- 4 11/16"	4(i90)	73 lb/ft	-	-	-
Point	1'- 1 3/16"	1'- 1 3/16"	4(i90)	556.00 lb	1457.00/-364.00 lb	10.00 lb	4.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 11/16"	DB1-2(i1171)	658.00 lb	1457.00/-364.00 lb	10.00 lb	4.00 lb
==>	0'	1'- 4 11/16"	DB1-2(i1171)	73.00 lb/ft	-	-	-
==>	1'- 1 3/16"	1'- 1 3/16"	DB1-2(i1171)	556.00 lb	1457.00/-364.00 lb	10.00 lb	4.00 lb

**Errors, Warnings & Notes:**

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Graphical Illustration - Not To Scale  
 Member Cut Length - 1'- 3 3/16"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Loading:**

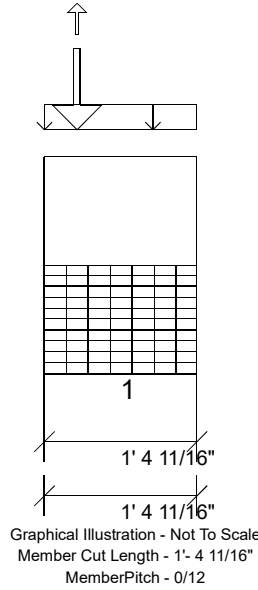
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	1'- 3 3/16"	4(i90)	73 lb/ft	-	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 3 3/16"	DB1-2(i1171)	73.00 lb	-	-	-

**Errors, Warnings & Notes:**

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**Design Information:**

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft <sup>2</sup>	Roof Dead Load:	10.0 lb/ft <sup>2</sup>	Ground Snow Load:	20.0 lb/ft <sup>2</sup>
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft <sup>2</sup>	Roof Live Load:	20.0 lb/ft <sup>2</sup>		
		Unbraced Length	Top: 0'	Bottom:	0'		

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	1'- 4 11/16"	4(i90)	73 lb/ft	-	-	-
Point	0'- 3 9/16"	0'- 3 9/16"	4(i90)	556.00 lb	1457.00/-364.00 lb	9.00 lb	4.00 lb

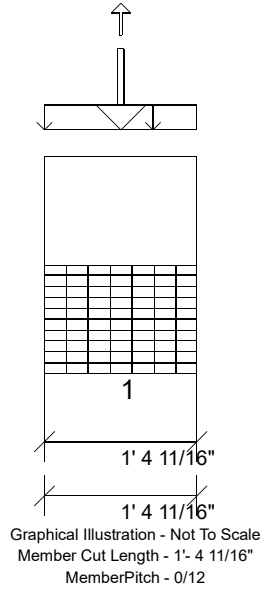
**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 11/16"	DB1-2(i1171)	658.00 lb	1457.00/-364.00 lb	9.00 lb	4.00 lb
==>	0'	1'- 4 11/16"	DB1-2(i1171)	73.00 lb/ft	-	-	-
==>	0'- 3 9/16"	0'- 3 9/16"	DB1-2(i1171)	556.00 lb	1457.00/-364.00 lb	9.00 lb	4.00 lb

**Errors, Warnings & Notes:**

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**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Loading:**

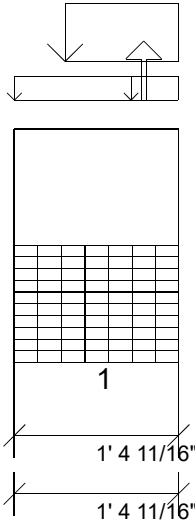
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	1'- 4 11/16"	4(i90)	73 lb/ft	-	-	-
Point	0'- 8 3/8"	0'- 8 3/8"	4(i90)	557.00 lb	1457.00/-364.00 lb	11.00 lb	5.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 11/16"	DB1-2(i1171)	659.00 lb	1457.00/-364.00 lb	11.00 lb	5.00 lb
==>	0'	1'- 4 11/16"	DB1-2(i1171)	73.00 lb/ft	-	-	-
==>	0'- 8 3/8"	0'- 8 3/8"	DB1-2(i1171)	557.00 lb	1457.00/-364.00 lb	11.00 lb	5.00 lb

**Errors, Warnings & Notes:**

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Graphical Illustration - Not To Scale  
 Member Cut Length - 1'- 4 11/16"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft²	Roof Dead Load: 10.0 lb/ft²	Ground Snow Load: 20.0 lb/ft²
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft²	Roof Live Load: 20.0 lb/ft²	
	Unbraced Length Top: 0'	Bottom: 0'	

**Loading:**

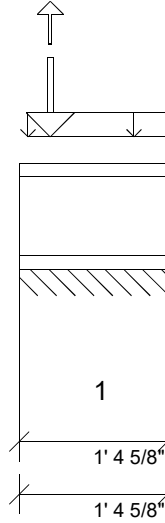
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'	1'- 4 11/16"	4(i90)	73 lb/ft	-	-	-
Uniform	0'- 5 3/16"	1'- 4 11/16"	4(i90)	351 lb/ft	838 lb/ft	3 lb/ft	2 lb/ft
Point	1'- 1 3/16"	1'- 1 3/16"	4(i90)	-	-279.00 lb	-	-

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 11/16"	DB1-2(i1171)	439.00 lb	806.00/-279.00 lb	3.00 lb	1.00 lb
==>	0'	1'- 4 11/16"	DB1-2(i1171)	73.00 lb/ft	-	-	-
==>	0'- 5 3/16"	1'- 4 11/16"	DB1-2(i1171)	351.00 lb/ft	838.00 lb/ft	3.00 lb/ft	2.00 lb/ft
==>	1'- 1 3/16"	1'- 1 3/16"	DB1-2(i1171)	-	-279.00 lb	-	-

**Errors, Warnings & Notes:**

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Graphical Illustration - Not To Scale  
 Member Cut Length - 1'- 4 5/8"  
 MemberPitch - 0/12

**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

<b>Max. Reaction</b>	0'- 2"	2034.25 lb	Supported MtI 2000.00 lb	Supporting MtI 0.00 lb	Failed - 102%	1.00	D + 0.75(L + Lr + 0.6W)
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**Loading:**

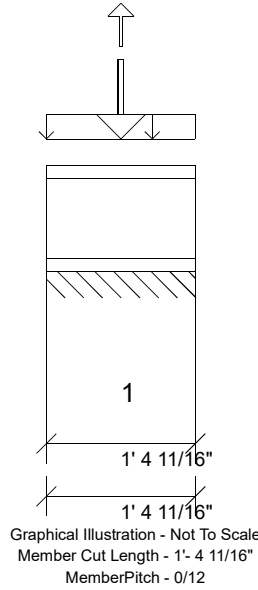
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	0'- 1"	1'- 4 5/8"	15(i101)	73 lb/ft	-	-	-
Point	0'- 3 1/2"	0'- 3 1/2"	15(i101)	958.00 lb	534.00/-75.00 lb	659.00/-1.00 lb	275.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 5/8"	W10(i14)	1059.00 lb	534.00/-75.00 lb	659.00/-1.00 lb	275.00 lb
==>	0'- 1/2"	0'- 1/2"	W10(i14)	6.00 lb	-	-	-
==>	0'- 1"	1'- 4 5/8"	W10(i14)	73.00 lb/ft	-	-	-
==>	0'- 3 1/2"	0'- 3 1/2"	W10(i14)	958.00 lb	534.00/-75.00 lb	659.00/-1.00 lb	275.00 lb

**Errors, Warnings & Notes:**

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



**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft²	Roof Dead Load: 10.0 lb/ft²	Ground Snow Load: 20.0 lb/ft²
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft²	Roof Live Load: 20.0 lb/ft²	
	Unbraced Length Top: 0'	Bottom: 0'	

<b>Max. Reaction</b>	0'- 8 3/8"	2024.20 lb	Supported MtI 2000.00 lb	Supporting MtI 0.00 lb	Failed - 101%	1.00	D + 0.75(L + Lr + 0.6W)
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**Loading:**

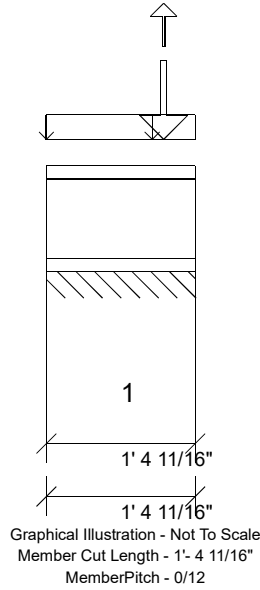
Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	-0'	1'- 4 11/16"	15(i101)	73 lb/ft	-	-	-
Point	0'- 8 3/8"	0'- 8 3/8"	15(i101)	955.00 lb	534.00/-75.00 lb	654.00/-1.00 lb	273.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 11/16"	W10(i14)	1057.00 lb	534.00/-75.00 lb	654.00/-1.00 lb	273.00 lb
==>	-0'	1'- 4 11/16"	W10(i14)	73.00 lb/ft	-	-	-
==>	0'- 8 3/8"	0'- 8 3/8"	W10(i14)	955.00 lb	534.00/-75.00 lb	654.00/-1.00 lb	273.00 lb

**Errors, Warnings & Notes:**

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**Design Information:**

Building Code: IRC2015	Floor Dead Load: 10.0 lb/ft <sup>2</sup>	Roof Dead Load: 10.0 lb/ft <sup>2</sup>	Ground Snow Load: 20.0 lb/ft <sup>2</sup>
Design Methodology: ASD	Floor Live Load: 40.0 lb/ft <sup>2</sup>	Roof Live Load: 20.0 lb/ft <sup>2</sup>	
	Unbraced Length Top: 0'	Bottom: 0'	

**Loading:**

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Uniform	-0'	1'- 4 11/16"	15(i101)	73 lb/ft	-	-	-
Point	1'- 1 3/16"	1'- 1 3/16"	15(i101)	929.00 lb	534.00/-75.00 lb	637.00/-1.00 lb	266.00 lb

**Support Information:**

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 4 11/16"	W10(i14)	1031.00 lb	534.00/-75.00 lb	637.00/-1.00 lb	266.00 lb
==>	-0'	1'- 4 11/16"	W10(i14)	73.00 lb/ft	-	-	-
==>	1'- 1 3/16"	1'- 1 3/16"	W10(i14)	929.00 lb	534.00/-75.00 lb	637.00/-1.00 lb	266.00 lb

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