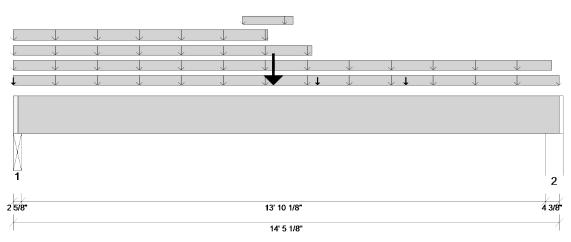


# Member Report

Label: M3-4 | Design Tag: i8002 4 piece(s) of 1 3/4" x 11 7/8" 2.0E Microllam® LVL

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Building Code: IBC 2018 Design Methodology: ASD		Member Cut Leng	th: 14' 5 1/8"	Member Drawing Not to Scale
Design Results:	Design @ Location	Allowed	Result	<u>LDF</u>	Load Combination - (Load Group)
Critical Reaction	6195 lb @ 1 1/8"	13808 lb (2.63")	Passed - 45%	-	1.0 D + 0.75 L + 0.75 S - (0)
Shear	5524 lb @ 1' 2 1/2"	15794 lb	Passed - 35%	1.00	1.0 D + 1.0 L - (0)
Moment	32026 lb-ft @ 6' 10 1/2"	35696 lb-ft	Passed - 90%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.29" @ 6' 10 1/2"	0.47" L/360	Passed - L/591	-	1.0 D + 0.75 L + 0.75 S - (0)
Total Load Deflection	0.57" @ 6' 10 1/2"	0.70" L/240	Passed - L/295	-	1.0 D + 0.75 L + 0.75 S - (0)

Design Notes:

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

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 14-05-00 o/c based on loads applied, unless detailed otherwise.

\* Member should be side-loaded from both sides of the member or braced to prevent rotation.

Supports:					Maximum Loads to Supports				
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow		
1	0" : 2 5/8"		-	3277 lb	2674 lb	-	1205 lb		
++>	5/8" : -	1.5"	M6-3(i7994)	1615 lb	1318 lb	-	594 lb		
++>	11/16" : -	-	M5-3(i7814)	1662 lb	1356 lb	-	611 lb		
2	14' 0 3/4" : 14' 5 1/8"	1.5"	F6(i2360)	2774 lb	2331 lb	-	1118 lb		

Loads:				Maximum Loads on Member				
Туре	Start : End	Combine	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 14' 5 1/8"	-	Self Weight	23 lb/ft	-	-	-	
Uniform	-0" : 14' 5 1/8"	-	FC1 Floor Decking	16 lb/ft	64 lb/ft	-	-	
Uniform	0" : 14' 2 3/4"	-	B3(i2310)	73 lb/ft	-	-	-	
Uniform	0" : 7' 10 3/4"	-	B3(i2310)	20 lb/ft	40 lb/ft	-	-	
Uniform	0" : 6' 8 3/4"	-	B3(i2310)	91 lb/ft	25 lb/ft	-	-	
Uniform	6' 0 3/4" : 7' 4 3/4"	-	B3(i2310)	2 lb/ft	5 lb/ft	-	-	
Point	0":-	-	B5(i2312)	10 lb	-	-	-	
Point	6' 10 1/2" : -	-	B3(i2310)	3536 lb	3538 lb	-	2323 lb	
Point	8' 0 1/2" : -	-	B7(i2314)	81 lb	51 lb	-	-	
Point	10' 4 1/2" : -	-	NB11(i2569)	56 lb	-	-	-	



# **Member Report**

Label: M3-4 | Design Tag: i8002

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

#### Errors, Warnings, & Notes:

- \* If sloping roof loads are applied to this member, the roof dead load has been adjusted for slope.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* Load Duration Factors: Dead 0.90, Floor Live 1.00, Roof Live 1.25, Snow 1.15

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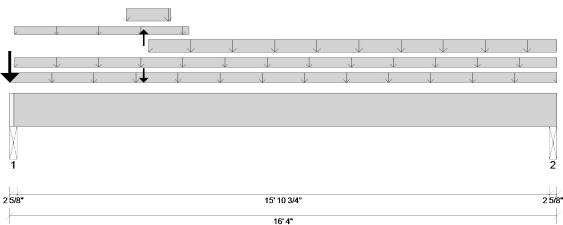




# Member Report

Label: M2-2 | Design Tag: i7999 2 piece(s) of 1 3/4" x 11 7/8" 2.0E Microllam® LVL Member Type: Beam | Level: 1st Floor

#### Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Design Methodology: ASI	0	Member Cut Leng	gth: 16'4"	" Member Drawing Not to Scale		
Design Results:	Design @ Location	Allowed	Result	<u>LDF</u>	Load Combination - (Load Group)		
Critical Reaction	2855 lb @ 1 1/8"	6904 lb (2.63")	Passed - 41%	-	1.0 D + 1.0 L - (1)		
Shear	2367 lb @ 15' 1 1/2"	7897 lb	Passed - 30%	1.00	1.0 D + 1.0 L - (1)		
Moment	11097 lb-ft @ 8' 1 7/8"	17848 lb-ft	Passed - 62%	1.00	1.0 D + 1.0 L - (1)		
Live Load Deflection	0.22" @ 8' 1 5/8"	0.54" L/360	Passed - L/875	-	1.0 D + 1.0 L - (1)		
Total Load Deflection	0.56" @ 8' 2 1/8"	0.81" L/240	Passed - L/345	-	1.0 D + 1.0 L - (1)		

#### Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 12-09-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 16-04-00 o/c based on loads applied, unless detailed otherwise.

Supports:					Maximum Load	s to Supports	
Support	Start : End	Req'd Br'g	Source	Dead	Floor Live	Roof Live	Snow
1	0" : 2 5/8"	1.5"	M7-3(i7815)	1594 lb	1254 lb	-	65 lb
2	16' 1 3/8" : 16' 4"		-	1702 lb	1068 lb	-	-
++>	16' 3 5/16" : -	1.5"	M5-3(i7814)	875 lb	549 lb	-	-
++>	16' 3 3/8" : -	-	M6-3(i7994)	827 lb	519 lb	-	-

Loads:				Maximum Loads on Member				
Type	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 16' 4"	-	Self Weight	11 lb/ft	-	-	-	
Uniform	0" : 16' 4"	-	FC1 Floor Decking	16 lb/ft	64 lb/ft	-	-	
Uniform	1 3/4" : 16' 4"	-	B3(i2310)	73 lb/ft	-	-	-	
Uniform	1 3/4" : 5' 4 1/4"	-	FC1 Floor Decking	7 lb/ft	-	-	-	
Uniform	3' 5 3/4" : 4' 9 3/4"	-	B3(i2310)	86 lb/ft	100 lb/ft	-	-	
Uniform	4' 1 3/4" : 16' 4"	-	B3(i2310)	110 lb/ft	64 lb/ft	-	-	
Point	0":-	-	B2(i2309)	157 lb	275 lb	-	65 lb	
Point	4'0":-	-	B11(i2318)	50 / -35 lb	85 / -141 lb	-	-	

### Errors, Warnings, & Notes:

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

File Name: SR-291798 370 CYPRESS CHURCH **REVISION DATE REVISION COMMENTS** 



## **Member Report**

Label: M2-2 | Design Tag: i7999

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

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

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

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

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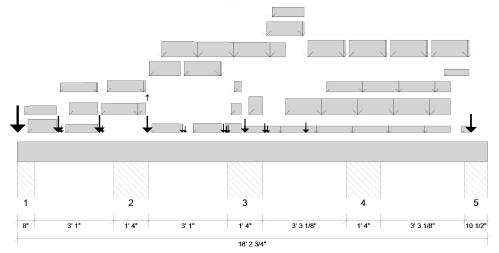




# **Member Report**

Label: M6-3 | Design Tag: i7994 3 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL Member Type: Beam | Level: 1st Floor

### Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Design Methodology: ASE	)	Member Cut Leng	gth: 18' 2 3/4"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result LDF		Load Combination - (Load Group)	
Critical Reaction	6617 lb @ 6 1/2"	31500 lb (8")	Passed - 21%	-	1.0 D + 1.0 L - (0)	
Shear	2756 lb @ 2' 11 3/4"	9227 lb	Passed - 30%	1.00	1.0 D + 1.0 L - (0)	
Moment	-2344 lb-ft @ 13' 11 5/8"	16806 lb-ft	Passed - 14%	1.00	1.0 D + 1.0 L - (0)	
Live Load Deflection	0.01" @ 15' 11 15/16"	0.12" L/360	Passed - L/999	-	1.0 D + 1.0 L - (0)	
Total Load Deflection	0.01" @ 15' 11 15/16"	0.18" L/240	Passed - L/999	-	1.0 D + 1.0 L - (0)	
Vertical Load Capacity Check	Passed					

#### Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 18-03-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 18-03-00 o/c based on loads applied, unless detailed otherwise.

Supports:					Maximum Load	s to Supports	
Support	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow
1	0":8"	1.68"	PBO7(i2389)	3659 lb	3977 / -73 lb	-	689 lb
2	3' 9" : 5' 1"		PBO34(i4043)	1974 lb	6310 lb	-	75 / -272 lb
==>	3' 10 1/2" : -	1.57"	PBO34(i4043)	380 lb	2840 lb	-	-135 lb
==>	4' 11 1/2" : -	1.5"	PBO34(i4043)	1594 lb	3470 lb	-	75 / -137 lb
3	8' 2" : 9' 6"		PBO10(i2392)	3272 lb	6214 lb	-	273 / -57 lb
==>	8' 3 1/2" : -	1.5"	PBO10(i2392)	1336 lb	3009 lb	-	79 / -57 lb
==>	9' 4 1/2" : -	1.5"	PBO10(i2392)	1936 lb	3205 lb	-	194 lb
4	12' 9 1/8" : 14' 1 1/8"		PBO35(i4044)	3049 lb	7270 lb	-	436 lb
==>	12' 10 5/8" : -	1.5"	PBO35(i4044)	1199 lb	3465 lb	-	188 lb
==>	13' 11 5/8" : -	1.77"	PBO35(i4044)	1850 lb	3805 lb	-	248 lb
5	17' 4 1/4" : 18' 2 3/4"		-	1400 lb	2826 lb	-	141 lb
++>	17' 8 1/4" : -	1.5"	PBO4(i2386)	1066 lb	2153 lb	-	107 lb
++>	18' 1 11/16" : -	-	F8(i2368)	278 lb	561 lb	-	28 lb
++>	18' 2 9/16" : -	-	F7(i2367)	56 lb	112 lb	-	6 lb

Loads:					Maximum Loads on Member			
Туре	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 18' 2 3/4"	-	Self Weight	13 lb/ft	-	-	-	
Uniform	5 1/16" : 1' 6 1/4"	-	BBk1(i7782)	36 lb/ft	565 lb/ft	-	-	
Uniform	1' 10 5/8" : 3' 1 1/2"	-	BBk1(i7782)	34 lb/ft	136 lb/ft	-	-	
Uniform	2' 0 1/4" : 3' 1 1/2"	-	BBk1(i7782)	-	472 lb/ft	-	-	
Uniform	5' 2 5/8" : 6' 3 7/8"	-	BBk1(i7782)	184 lb/ft	-	-	-	
Uniform	6' 9 7/8" : 7' 11 1/16"	-	BBk1(i7782)	232 lb/ft	-	-	-	



### **Member Report**

Label: M6-3 | Design Tag: i7994

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

Uniform	8' 0 13/16" : 8' 8 1/4"	-	BBk1(i7782)	107 lb/ft	135 lb/ft	-	-
Uniform	8' 3 7/16" : 8' 8 1/4"	-	BBk1(i7782)	-	401 lb/ft	-	-
Uniform	8' 5 1/16" : 8' 8 1/4"	-	BBk1(i7782)	292 lb/ft	-	-	74 lb/ft
Uniform	8' 9 9/16" : 16' 9	-	Smoothed Load	-	-	-	7 lb/ft
Uniform	8' 11 3/4" : 9' 6 1/4"	-	BBk1(i7782)	398 lb/ft	535 lb/ft	-	74 lb/ft
Uniform	10' 4 3/4" : 16' 9	-	Smoothed Load	-	805 lb/ft	-	-
Uniform	11' 11 15/16" : 16' 9	-	Smoothed Load	343 lb/ft	-	-	-
Uniform	16' 6 13/16" : 17' 6	-	BBk1(i7782)	-	1 lb/ft	-	-
Uniform	17' 2 13/16" : 17' 6	-	BBk1(i7782)	2 lb/ft	6 lb/ft	-	-
Tapered	3 7/16" : 1' 6 1/4"	-	BBk1(i7782)	174 To 200 lb/ft	-	-	-
Tapered	1' 8" : 3' 1 1/2"	-	BBk1(i7782)	203 To 234 lb/ft	-	-	-
Tapered	3' 3 1/4" : 4' 11	-	BBk1(i7782)	272 To 308 lb/ft	136 To 136 lb/ft	-	-
Tapered	3' 5 7/8" : 4' 11	-	BBk1(i7782)	-	419 To 426 lb/ft	-	-
Tapered	5' 1 7/16" : 6' 3 7/8"	-	BBk1(i7782)	107 To 107 lb/ft	561 To 566 lb/ft	-	-
Tapered	5' 7 1/8" : 10' 4 3/4"	-	Smoothed Load	-	765 To 684 lb/ft	-	-
Tapered	6' 5 5/8" : 7' 11 1/16"	-	BBk1(i7782)	107 To 107 lb/ft	567 To 573 lb/ft	-	-
Tapered	9' 8" : 11' 1 1/2"	-	BBk1(i7782)	106 To 107 lb/ft	535 To 534 lb/ft	-	-
Tapered	9' 10 5/8" : 11' 1 1/2"	-	BBk1(i7782)	193 To 192 lb/ft	-	-	75 To 74 lb/ft
Tapered	11' 3 1/4" : 12' 8	-	BBk1(i7782)	298 To 297 lb/ft	533 To 533 lb/ft	-	74 To 74 lb/ft
Tapered	12' 10 7/16" : 14' 3	-	BBk1(i7782)	297 To 296 lb/ft	532 To 532 lb/ft	-	74 To 73 lb/ft
Tapered	14' 5 5/8" : 15' 11	-	BBk1(i7782)	296 To 294 lb/ft	531 To 530 lb/ft	-	73 To 72 lb/ft
Tapered	16' 0 13/16" : 17' 6	-	BBk1(i7782)	294 To 293 lb/ft	530 To 529 lb/ft	-	72 To 71 lb/ft
Point	1/4" : -	-	M3-4(i8002)	1615 lb	1318 lb	-	594 lb
Point	1/4" : -	-	M2-2(i7999)	827 lb	519 lb	-	-
Point	1' 7 1/8" : -	-	B32'(i7739)	443 lb	1298 lb	-	-
Point	1' 8 9/16" : -	-	BBk1(i7782)	3 lb	48 lb	-	-
Point	3' 2 3/8" : -	-	B32'(i7772)	453 lb	1402 lb	-	-
Point	3' 3 3/4" : -	-	BBk1(i7782)	-	40 lb	-	-
Point	5' 0 9/16" : -	-	B32'(i7700)	428 lb	1298 lb	-	-1 lb
Point	6' 4 3/4" : -	-	B32'(i7742)	397 lb	-	-	-
Point	6' 6 1/8" : -	-	BBk1(i7782)	16 lb	-	-	-
Point	7' 11 15/16" : -	-	B32'(i7794)	386 lb	-	-	-
Point	8' 1 5/16" : -	-	BBk1(i7782)	20 lb	-	-	-
Point	8' 2 1/8" : -	-	BBk1(i7782)	-	96 lb	-	-
Point	8' 10" : -	-	B18'-2(i7728)	785 lb	414 lb	-	22 lb
Point	9' 7 1/8" : -	-	B32'(i7790)	474 lb	-	-	-
Point	9' 8 9/16" : -	-	BBk1(i7782)	25 lb	-	-	6 lb
Point	11' 2 3/8" : -	-	B32'(i7784)	591 lb	-	-	-
Point	17' 7 1/8" : -	-	B32'(i7777)	653 lb	1366 lb	-	31 lb

#### Errors, Warnings, & Notes:

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

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

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

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

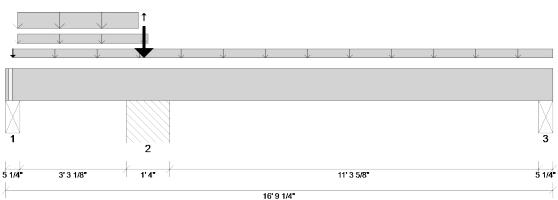




# **Member Report**

Label: M2-2 | Design Tag: i7817 2 piece(s) of 1 3/4" x 11 7/8" 2.0E Microllam® LVL Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Design Methodology: AS	SD	Member Cut Lenç	gth: 16' 9 1/4"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)	
Critical Reaction	986 lb @ 3 3/4"	13781 lb (5.25")	Passed - 7%	-	1.0 D + 1.0 L - (0)	
Shear	432 lb @ 2' 8 1/2"	7897 lb	Passed - 5%	1.00	1.0 D + 1.0 L - (0)	
Moment	-787 lb-ft @ 4' 10 7/8"	17848 lb-ft	Passed - 4%	1.00	1.0 D + 1.0 L - (0)	
Live Load Deflection	0.01" @ 11' 5 3/16"	0.39" L/360	Passed - L/999	-	1.0 D + 1.0 L - (0)	
Total Load Deflection	0.01" @ 11' 5 1/16"	0.58" L/240	Passed - L/999	-	1.0 D + 1.0 L - (0)	
Vertical Load Capacity Check	Passed					

#### **Design Notes:**

\* Top Edge Bracing (Lu): Top compression edge must be braced at 16-09-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 16-09-00 o/c based on loads applied, unless detailed otherwise.

Supports:				Maximum Loads to Supports				
Support	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow	
1	0" : 5 1/4"	1.5"	M7-3(i7759)	486 lb	488 / -59 lb	-	66 lb	
2	3' 8 3/8" : 5' 0 3/8"		PBO17(i2496)	3657 lb	5796 lb	-	6 / -16 lb	
==>	3' 9 7/8" : -	1.5"	PBO17(i2496)	2455 lb	3494 lb	-	-16 lb	
==>	4' 10 7/8" : -	1.5"	PBO17(i2496)	1202 lb	2302 lb	-	6 lb	
3	16' 4" : 16' 9 1/4"		-	90 lb	154 / -6 lb	-	-	
++>	16' 7 15/16" : -	1.5"	M5-3(i7814)	45 lb	77 / -3 lb	-	-	
++>	16' 7 15/16" : -	-	M4-3(i7575)	45 lb	77 / -3 lb	-	-	

Loads:				Maximum Loads on Member				
Type	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 16' 9 1/4"	-	Self Weight	11 lb/ft	-	-	-	
Uniform	2 5/8" : 16' 9 1/4"	-	FC1 Floor Decking	8 lb/ft	32 lb/ft	-	-	
Uniform	4 3/8" : 4' 4 3/8"	-	B12(i2320)	73 lb/ft	-	-	-	
Uniform	4 3/8" : 4' 0 7/8"	-	B12(i2320)	170 lb/ft	157 lb/ft	-	-	
Point	2 5/8" : -	-	B13(i2319)	129 lb	183 lb	-	58 lb	
Point	4' 2 7/8" : -	-	B12(i2320)	2859 lb	4364 lb	-	-3 lb	



# **Member Report**

Label: M2-2 | Design Tag: i7817

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

#### Errors, Warnings, & Notes:

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

- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* Load Duration Factors: Dead 0.90, Floor Live 1.00, Roof Live 1.25, Snow 1.15

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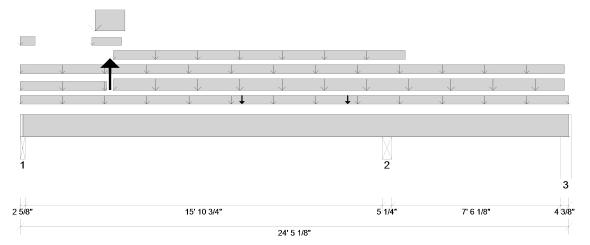


# Member Report

Label: M1-2 | Design Tag: i7816 2 piece(s) of 1 3/4" x 11 7/8" 2.0E Microllam® LVL

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Member Cut Length: 24' 5 1/8" Building Code: IBC 2018 Design Methodology: ASD Member Drawing Not to Scale Design @ Location <u>LDF</u> **Design Results:** Allowed <u>Result</u> Load Combination - (Load Group) Critical Reaction 9278 lb @ 16' 4" 13781 lb (5.25") Passed - 67% 1.0 D + 1.0 L - (0) -Shear 4866 lb @ 15' 1 1/2" 7897 lb Passed - 62% 1.00 1.0 D + 1.0 L - (0) Passed - 89% Moment 15959 lb-ft @ 7' 5 9/16" 17848 lb-ft 1.00 1.0 D + 1.0 L - (0) Live Load Deflection 0.45" @ 8' 2 5/8" 0.54" L/360 Passed - L/432 1.0 D + 1.0 L - (0) \_ Total Load Deflection 0.79" @ 7' 11 1/4" 0.81" L/240 Passed - L/247 1.0 D + 1.0 L - (0) -

### Design Notes:

\* Uplift constraint has been released at support location 24-02-04.

\* Top Edge Bracing (Lu): Top compression edge must be braced at 6-01-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 8-08-00 o/c based on loads applied, unless detailed otherwise.

Supports:				Maximum Loads to Supports				
Support	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow	
1	0" : 2 5/8"	1.5"	M7-3(i7815)	1759 lb	1514 / -41 lb	-	27 lb	
2	16' 1 3/8" : 16' 6 5/8"	3.53"	M5-3(i7814)	4820 lb	4444 lb	-	-	
3	24' 0 3/4" : 24' 5 1/8"	1.5"	F4(i2362)	-114 lb	973 / -750 lb	-	-	

Loads:				Maximum Loads on Member				
Type	Start : End	Combine	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 24' 5 1/8"	-	Self Weight	11 lb/ft	-	-	-	
Uniform	0" : 24' 5 1/8"	-	FC1 Floor Decking	8 lb/ft	32 lb/ft	-	-	
Uniform	-0" : 24' 2 3/4"	-	B37(i2568)	73 lb/ft	-	-	-	
Uniform	-0" : 3' 10 1/4"	-	B37(i2568)	20 lb/ft	69 lb/ft	-	-	
Uniform	-0" : 8"	-	B37(i2568)	42 lb/ft	12 lb/ft	-	44 lb/ft	
Uniform	3' 2 1/4" : 4' 6 1/4"	-	B37(i2568)	4 lb/ft	15 lb/ft	-	-	
Uniform	3' 4" : 4' 8"	-	B37(i2568)	388 lb/ft	850 lb/ft	-	-	
Uniform	4' 1 3/4" : 24' 2 3/4"	-	B37(i2568)	117 lb/ft	234 lb/ft	-	-	
Uniform	4' 1 3/4" : 17' 1 3/4"	-	B37(i2568)	92 lb/ft	-	-	-	
Point	4'0":-	-	B37(i2568)	-	-766 lb	-	-2 lb	
Point	9' 10 1/2" : -	-	FC1 Floor Decking	31 lb	-	-	-	
Point	14' 7" : -	-	FC1 Floor Decking	31 lb	-	-	-	



# **Member Report**

Label: M1-2 | Design Tag: i7816

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

#### Errors, Warnings, & Notes:

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

- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* Load Duration Factors: Dead 0.90, Floor Live 1.00, Roof Live 1.25, Snow 1.15

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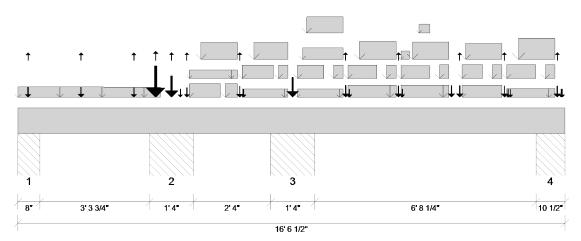




## **Member Report**

Label: M7-3 | Design Tag: i7815 3 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Member Cut Length: 16' 6 1/2" Building Code: IBC 2018 Design Methodology: ASD Member Drawing Not to Scale Load Combination - (Load Group) <u>LDF</u> **Design Results:** Design @ Location Allowed Result Critical Reaction 15551 lb @ 8' 10 1/4" 42328 lb (10.75") Passed - 37% 1.0 D + 1.0 L - (1) -Shear 8581 lb @ 9' 9" 9227 lb Passed - 93% 1.00 1.0 D + 1.0 L - (1) -10827 lb-ft @ 8' 10 1/4" Passed - 64% Moment 16806 lb-ft 1.00 1.0 D + 1.0 L - (1) Live Load Deflection 0.09" @ 12' 7 3/16" 0.23" L/360 Passed - L/878 1.0 D + 1.0 L - (1) -Total Load Deflection 0.15" @ 12' 7 5/16" 0.35" L/240 Passed - L/557 1.0 D + 1.0 L - (1) . Vertical Load Capacity Check Passed

### **Design Notes:**

\* Top Edge Bracing (Lu): Top compression edge must be braced at 16-07-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 16-07-00 o/c based on loads applied, unless detailed otherwise.

Supports:				Maximum Loads to Supports				
Support	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow	
1	0" : 8"	1.5"	PBO13(i2397)	309 lb	1557 / -65 lb	-	15 / -5 lb	
2	3' 11 3/4" : 5' 3 3/4"		PBO8(i2390)	5792 lb	8122 / -17 lb	-	1467 lb	
==>	4' 1 1/4" : -	1.76"	PBO8(i2390)	5005 lb	6407 / -17 lb	-	998 lb	
==>	5' 2 1/4" : -	1.5"	PBO8(i2390)	787 lb	1715 lb	-	469 lb	
3	7' 7 3/4" : 8' 11 3/4"		PBO9(i2391)	7269 lb	14733 lb	-	1443 / -143 lb	
==>	7' 9 1/4" : -	1.5"	PBO9(i2391)	-	3484 lb	-	-143 lb	
==>	8' 10 1/4" : -	3.95"	PBO9(i2391)	7269 lb	11249 lb	-	1443 lb	
4	15' 8" : 16' 6 1/2"		-	3377 lb	5703 lb	-	726 lb	
++>	16'0":-	2.33"	PBO3(i2385)	2573 lb	4345 lb	-	553 lb	
++>	16' 5 7/16" : -	-	F10(i2375)	670 lb	1132 lb	-	144 lb	
++>	16' 6 5/16" : -	-	F11(i2377)	134 lb	226 lb	-	29 lb	

Loads:				Maximum Loads on Member				
Type	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 16' 6 1/2"	-	Self Weight	13 lb/ft	-	-	-	
Uniform	5' 2 3/16" : 6' 7 5/8"	-	BBk1(i7811)	73 lb/ft	-	-	-	
Uniform	5' 2 3/16" : 6' 1 1/2"	-	BBk1(i7811)	250 lb/ft	169 lb/ft	-	200 lb/ft	
Uniform	5' 6 3/8" : 6' 7 5/8"	-	BBk1(i7811)	216 lb/ft	772 lb/ft	-	22 lb/ft	
Uniform	6' 3 1/4" : 6' 7 5/8"	-	BBk1(i7811)	250 lb/ft	169 lb/ft	-	200 lb/ft	
Uniform	6' 9 3/8" : 8' 1 15/16"	-	BBk1(i7811)	73 lb/ft	-	-	-	
Uniform	6' 9 3/8" : 7' 8 3/4"	-	BBk1(i7811)	250 lb/ft	169 lb/ft	-	200 lb/ft	
Uniform	7' 1 5/8" : 8' 1 15/16"	-	BBk1(i7811)	216 lb/ft	772 lb/ft	-	22 lb/ft	
Uniform	7' 10 1/2" : 8' 1	-	BBk1(i7811)	250 lb/ft	169 lb/ft	-	200 lb/ft	
Uniform	8' 5 7/16" : 9' 10"	-	BBk1(i7811)	73 lb/ft	-	-	-	
File Name: S	R-291798				Javelin® S	Software 6.4.1.3	Design Engine: V8.0.0.21	

370 CYPRESS CHURCH

**REVISION DATE** 

**REVISION COMMENTS** 

Javelin® Software 6.4.1.3



# **Member Report**

Label: M7-3 | Design Tag: i7815

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

Uniform         0"5 7/16" : 91 1/1"         BBA1((751)         72 Hent         168 bith         -         200 bith           Uniform         8"5 1716" : 91 0"         BBA1((751)         220 bith         666 bith         -         -           Uniform         9"5 1716" : 91 0"         BBA1((7511)         240 bith         666 bith         -         200 bith           Uniform         9"11 34": 115 514"         BBA1((7511)         240 bith         660 bith         -         200 bith           Uniform         10"11 34": 115 514"         BBA1(7611)         240 bith         667 bith         -         -           Uniform         10"11 34": 117 514"         BBA1(7611)         240 bith         677 bith         -         200 bith           Uniform         11"71 110" 12" 71 10"         BBA1(7611)         240 bith         677 bith         -         -           Uniform         11"5 316": 14" 0         BBA1(7611)         240 bith         610 bith         -         -           Uniform         12"5 316": 14" 0         BBA1(7611)         250 bith         193 bith         -         -           Uniform         13"5 316": 14" 0         BBA1(7611)         251 bith         193 bith         -         -           Uniform								
Uniform         B B B 30 (*) (*) (*) (*)         BBR ((781)         202 bith         606 bith         -         200 bith           Uniform         9' 11 34': 11' 5 14'         BBR ((781)         145 bith         287 bith         -         36 bit           Uniform         9' 11 34': 11' 5 14'         BBR ((781)         145 bith         287 bith         -         -           Uniform         10' 3': 11' 5 14'         BBR ((781)         145 bith         167 bith         -         -           Uniform         11' 7': 12 5 716'         BBR ((781)         145 bith         128 bith         126 bith         -         -           Uniform         11' 7': 12 5 716'         BBR ((781)         128 bith         126 bith         -	Uniform	8' 5 7/16" : 9' 3 1/16"	-	BBk1(i7811)	249 lb/ft	169 lb/ft	-	200 lb/ft
Uniform         9' 6 3/16' 2' 10''         BBk((781)         240 bkt         100 bkt         200 bkt           Uniform         9' 13 34': 1' 10'         BBk((781)         424 bkt         169 bkt         200 bkt           Uniform         1' 1' 34': 1' 15' 14''         BBk((781)         424 bkt         169 bkt         200 bkt           Uniform         1' 1' 34': 1' 15' 14''         BBk((781)         244 bkt         169 bkt         200 bkt           Uniform         1' 1' 1' 34': 1' 15' 14''         BBk((781)         243 bkt         169 bkt         200 bkt           Uniform         1' 1' 7': 1' 10''         BBk((781)         223 bkt         125 bkt         30 bkt           Uniform         1' 1' 1' 34': 1' 2'         BBk((781)         34 bkt         610 bkt         -           Uniform         1' 1' 1' 34': 1' 2'         BBk((781)         261 bkt         193 bkt         61 bkt         -           Uniform         1' 2' 1/2': 1' 2'         BBk((781)         261 bkt         193 bkt         60 bkt         -         -           Uniform         1' 2' 3' 3'0': 1' 4'         BBk((781)         261 bkt         193 bkt         -         -           Uniform         1' 2' 3' 3'0': 1' 4' 2' 5''         BBkk((781)         261 bkt         193	Uniform	8' 7 3/16" : 9' 10"	-	BBk1(i7811)	72 lb/ft	287 lb/ft	-	36 lb/ft
Uniform         9' 11 34': 11' 5 14'         BBA (0781)         145 beht         287 beht         -         36 beht           Uniform         10' 4': 11' 5 14'         BBA (0781)         429 beht         667 beht         -         -           Uniform         11' 7': 13 0' 716'         BBA (0781)         429 beht         667 beht         -         -           Uniform         11' 7': 13 0' 716'         BBA (0781)         145 beht         126 beht         -	Uniform	8' 8 13/16" : 9' 10"	-	BBk1(i7811)	302 lb/ft	606 lb/ft	-	-
Uniform         911 34': 10' 10         -         Bisk (1/7211)         249 brh         169 brh         -         200 brh           Uniform         11' 13'4': 11' 5 1/4'         -         Bisk (1/7211)         249 brh         169 brh         -         200 brh           Uniform         11' 7': 13' 0'''         -         Bisk (1/7211)         249 brh         128 brh         -         200 brh           Uniform         11' 7': 13' 0''         -         Bisk (1/7211)         228 brh         128 brh         -         -           Uniform         11'1 3 176': 13' 0         -         Bisk (1/7211)         228 brh         66 brh         -         -           Uniform         12'8 15/16': 14' 7         -         Bisk (1/7211)         261 brh         133 brh         -         200 brh           Uniform         13'5 3/8': 14' 7 58'         -         Bisk (1/7211)         261 brh         133 brh         -         200 brh           Uniform         13'5 3/8': 14' 7 58'         -         Bisk (1/7211)         271 brh         31 brh         -         200 brh           Uniform         14'8 18'': 14' 7 58'         -         Bisk (1/7211)         271 brh         31 brh         -         -           Uniform         14	Uniform	9' 6 9/16" : 9' 10"	-	BBk1(i7811)	249 lb/ft	169 lb/ft	-	200 lb/ft
Uniform         10         411' 15         11' 15         11' 15         11' 15         11' 15         11' 15         11' 15         11' 15         11' 15         11' 15         11' 15         11' 15         12' 11' 15' 15' 15''         12' 11' 15'' 15'' 15''         12'' 11' 15'' 15'' 15''         12'' 11' 15'' 15'' 15''         12'' 11' 15'' 15'' 15''         13'' 11'' 11'' 15'' 15'' 15''         13'' 11'' 11'' 15'' 15'' 15''         13'' 11'' 11'' 15'' 15'' 15''         13'' 15'' 15'' 15'' 15'' 15'' 15'' 15''	Uniform	9' 11 3/4" : 11' 5 1/4"	-	BBk1(i7811)	145 lb/ft	287 lb/ft	-	36 lb/ft
Uniform         11'1 Start : 11'S 51/4"         -         BBKI (7811)         249 brh         169 brh         -         200 brh           Uniform         11'7': 12'S 71/6'         -         BBKI (7811)         228 brh         128 brh         -         200 brh           Uniform         11'7': 12'S 71/6'         -         BBKI (7811)         228 brh         43 brh         -         -           Uniform         11'1 31'S': 12'S         -         BBKI (7811)         440 brh         61 brh         -         -           Uniform         12'8 53'G': 14'7         -         BBKI (7811)         281 brh         193 brh         -         200 brh           Uniform         13'5 3'G': 14'7 58'         -         BBKI (7811)         281 brh         193 brh         -	Uniform	9' 11 3/4" : 10' 10	-	BBk1(i7811)	249 lb/ft	169 lb/ft	-	200 lb/ft
Uniform         11 '17 ': 12' '3' 0' /16'         -         Bik (/7811)         145 b/r         28 b/r         -         200 b/r           Uniform         11 '7' : 11' 10'         -         Bik (/7811)         22 b/r         43 b/r         -           Uniform         11' 11' 3' (1''''')         -         Bik (/7811)         22 b/r         43 b/r         -           Uniform         12' 11'''''         -         Bik (/7811)         33 b/r         66 b/r         -           Uniform         12' 11'''''         -         Bik (/7811)         33 b/r         66 b/r         -         200 b/r           Uniform         13' 5''''''''''''''         -         Bik (/7811)         281 b/r         193 b/r         -         200 b/r           Uniform         13' 5'''''''''''''''''''''''''''''''''''	Uniform	10' 4" : 11' 5 1/4"	-	BBk1(i7811)	429 lb/ft	667 lb/ft	-	-
Unitom         11'7': 11'5'         -         Bik (17911)         22 b/h         12 b/h         -         20 b/h           Unitom         11'1': 11'1'         -         Bik (17911)         440 b/h         61 b/h         -           Unitom         11'1': 11'2': 12'5         -         Bik (17911)         22 b/h         16 b/h         -           Unitom         12'8 15'16': 13'0         -         Bik (17911)         22 b/h         15 b/h         -         30 b/h           Unitom         12'8 5'16': 14'7         -         Bik (17911)         26 b/h         280 b/h         200 b/h           Unitom         13'5 3/6': 14'7 5/8'         -         Bik (17911)         26 b/h         180 b/h         -         200 b/h           Unitom         14'4 3/8': 14'7 5/8'         -         Bik (17911)         26 b/h         193 b/h         -         200 b/h           Unitom         14'4 3/8': 14'7 5/8'         -         Bik (17911)         26 b/h         193 b/h         -         200 b/h           Unitom         15 13 38'h         16'2         Bik (17911)         26 b/h         38 b/h         -         -           Unitom         15 13 38'h         20 b/h         38 b/h         -         -	Uniform	11' 1 3/4" : 11' 5 1/4"	-	BBk1(i7811)	249 lb/ft	169 lb/ft	-	200 lb/ft
Uniform         11'1'1'1'1'1'1'         -         BBkt(77811)         22.br/h         44.0 br/h         -           Uniform         12'1 11'2':1'2'5         -         BBkt(77811)         33.0 br/h         66.0 br/h         -           Uniform         12'1 12':1'2'5         -         BBkt(77811)         35.0 br/h         193.0 br/h         200.0 br/h           Uniform         13'5 3/16':14'7         -         BBkt(77811)         261.0 br/h         193.0 br/h         -         -           Uniform         13'5 3/16':14'7         -         BBkt(77811)         261.0 br/h         193.0 br/h         -         -         -         -         -         -         200.0 br/h           Uniform         14'4 3/8':16'7 5/8'         -         BBkt(77811)         261.0 br/h         193.0 br/h         -         -         -         -         -         200.0 br/h         101.0 br/h         -         -         -         200.0 br/h         101.0 br/h         -         -         -         -         -         -         200.0 br/h         101.0 br/h         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Uniform	11' 7" : 13' 0 7/16"	-	BBk1(i7811)	145 lb/ft	287 lb/ft	-	36 lb/ft
Uniform         11'11'12'12''         BBk1(77811)         440.b/n         60 b/n         ·           Uniform         12'1 12'''         BBk1(77811)         281 b/n         193 b/n         ·         200 b/n           Uniform         13'5 3/16'': 14''         ·         BBk1(77811)         281 b/n         193 b/n         ·         200 b/n           Uniform         13'5 3/16'': 14''         ·         BBk1(77811)         281 b/n         193 b/n         ·         200 b/n           Uniform         13'8 3/8'': 14'' 58''         ·         BBk1(77811)         281 b/n         193 b/n         ·         200 b/n           Uniform         14'8 3/8'': 15' 2         ·         BBk1(77811)         7.51 b/n         ·         ·         200 b/n           Uniform         15'13'3''         ·         ·         250 b/n         393 b/n         ·         ·         .           Uniform         15'13'3''         ·         BBk1(77811)         502 b/n         393 b/n         ·         ·         .           Uniform         15'13'3'''         ·         BBk1(7781)         502 b/n         380 b/n         ·         .         .           Uniform         15'13''''''''''''''''''''''''''''''''''	Uniform	11' 7" : 12' 5 7/16"	-	BBk1(i7811)	228 lb/ft	126 lb/ft	-	200 lb/ft
Uniform         1 / 1 / 2 : 1	Uniform	11' 7" : 11' 10"	-	BBk1(i7811)	22 lb/ft	43 lb/ft	-	-
Uniform         12 8 15/16*: 13 0         -         BBR (1771)         261 b/tt         133 b/tt         -         200 b/tt           Uniform         13 5 3016*: 14*0         -         BBR (1771)         261 b/tt         193 b/tt         -         -         200 b/tt           Uniform         13 5 3016*: 14*0         -         BBR (1771)         281 b/tt         193 b/tt         -         200 b/tt           Uniform         14*1 A/8: 14*7 5/8*         -         BBR (1771)         251 b/tt         193 b/tt         -         300 b/tt           Uniform         14*3 936*: 16*2         -         BBR (1771)         251 b/tt         193 b/tt         -         300 b/tt           Uniform         15*11 38*: 16*2         -         BBR (1771)         251 b/tt         193 b/tt         -         -           Uniform         15*11 38*: 16*2         -         BBR (17731)         281 b/tt         193 b/tt         -		11' 11 3/16" : 13' 0	-	BBk1(i7811)	440 lb/ft		-	-
Uniform         13' 5 3/16': 14' 0         BBk1(7811)         14' 5 bht         287 bbt         -         BBt0/ft           Uniform         13' 5 3/3': 14' 7 5/8'         -         BBk1(7811)         281 bbt         608 bbt         -         200 bbt           Uniform         14' 4 1/3': 14' 7 5/8'         -         BBk1(7811)         261 bbt         193 bbt         -         200 bbt           Uniform         14' 9 3/8': 16' 2         -         BBk1(7811)         261 bbt         193 bbt         -         200 bbt           Uniform         15' 15'': 16' 2         -         BBk1(7811)         261 bbt         936 ibt         -         -         200 bbt           Uniform         15' 15'': 16' 2         -         BBk1(7811)         261 ibt         193 ibt         -         -         -           Uniform         15' 15'': 16' 2         -         BBk1(7811)         261 ibt         193 ibt         -	Uniform	12' 1 1/2" : 12' 5	-	BBk1(i7811)	33 lb/ft	66 lb/ft	-	-
Uniform         13's 3/16'': 14'0         -         BBk1(7781)         281 brit         193 brit         -         200 brit           Uniform         14'4 1/8'': 14'7 5/8''         -         BBk1(7781)         261 brit         193 brit         -         36 brit           Uniform         14'9 38'': 16'2         -         BBk1(7781)         261 brit         193 brit         -         36 brit           Uniform         14'9 38'': 16'2         -         BBk1(7781)         261 brit         193 brit         -         -         200 brit           Uniform         15'1 3/8'': 16'2         -         BBk1(7781)         261 brit         193 brit         -         -         -         -         200 brit           Uniform         15'11 3/8'': 16'2         -         BBk1(7781)         261 brit         193 brit         -         -         -         -         -         -         200 brit           Tapered         0':4'3 11/16''         -         BS(7783)         198 b         -	Uniform	12' 8 15/16" : 13' 0	-	BBk1(i7811)	261 lb/ft	193 lb/ft	-	200 lb/ft
Uniform         13'S 6 38'': 14' 7 56''         BBk1 (7811)         289 lb/h         606 lb/h         -         -           Uniform         14'4 18'': 14' 7 56''         -         BBk1 (7811)         73 lb/h         -         -         200 lb/h           Uniform         14'9 38'': 15' 7 77'8'         -         BBk1 (7811)         251 lb/h         193 lb/h         -         200 lb/h           Uniform         15'1 56': 16'2         -         BBk1 (7811)         251 lb/h         193 lb/h         -         200 lb/h           Tapered         0': 4'3 11/h <sup>C</sup> -         BBk1 (7811)         251 lb/h         193 lb/h         -         -           Point         31 11/h <sup>C</sup> ':         -         B26((783)         107 lb         440 /-10 lb         -         -           Point         31 11/h <sup>C</sup> ':         -         B26((7730)         138 lb         440 /-10 lb         -         -           Point         3'6 lb'':         -         B26((760)         14'lb         33 lb         -         -           Point         4'7 3'4':         -         B14'(783)         98 lb         -         -         29 lb           Point         4'7 3'4':         -         B26(f701)         228 lb         <	Uniform	13' 5 3/16" : 14' 7	-	BBk1(i7811)	145 lb/ft	287 lb/ft	-	36 lb/ft
Uniform         14' 4 18'': 14' 7 58''         ·         BBk1(7781)         261 lbrft         193 lbrft         ·         200 lbrft           Uniform         14' 9 30'': 15' 7 78''         ·         BBk1(7781)         261 lbrft         193 lbrft         ·         361 b/ft           Uniform         15' 13'8'': 16' 2         ·         BBk1(7781)         261 lbrft         936 lbrft         ·         200 lbrft           Uniform         15' 13'8'': 16' 2         ·         BBk1(7781)         261 lbrft         938 lbrft         ·         200 lbrft           Tapered         0': 4' 3' 11/16'':         ·         BBk1(7781)         261 lbrft         930 lbr         ·	Uniform	13' 5 3/16" : 14' 0	-	BBk1(i7811)		193 lb/ft	-	200 lb/ft
Uniform         14*9 3/8*:16*7.7/8*         BBk/(77811)         73 lb/t         -         >         36 lb/t           Uniform         14*9 3/8*:16*7.7/8*         BBk/(77811)         50 lb/t         193 lb/t         930 lb/t         -           Uniform         15*1 5/6*:16*2         BBk/(77811)         50 lb/t         930 lb/t         -         275 To 262 lb/t         -         -           Tapered         0':4*3 11/16':         B26/(77803)         107 lb         440 / -10 lb         - <t< td=""><td>Uniform</td><td></td><td>-</td><td>BBk1(i7811)</td><td>289 lb/ft</td><td>606 lb/ft</td><td>-</td><td>-</td></t<>	Uniform		-	BBk1(i7811)	289 lb/ft	606 lb/ft	-	-
Uniform         14'9 38'': 16' 7'/9''         BBK (7811)         261 lb/t         193 lb/t         -         200 lb/t           Uniform         15' 15/8': 16' 2         BBK (7811)         261 lb/t         133 lb/t         -         200 lb/t           Tapered         0': 4' 3 11/16': -         BBK (7811)         261 lb/t         133 lb/t         -         275 To 262 lb/t         -         -           Point         31 11/16': -         BS26 (7763)         139 lb         440 / 10 lb         -         -         -           Point         31 11/16': -         BS26 (7763)         139 lb         440 / 10 lb         -         -         -           Point         31 11/16': -         BS4(7763)         98 lb         -         -         -         -         -           Point         1'10 7/8': -         BS4(7763)         98 lb         -	Uniform	14' 4 1/8" : 14' 7 5/8"	-	BBk1(i7811)	261 lb/ft	193 lb/ft	-	200 lb/ft
	Uniform	14' 9 3/8" : 16' 2	-	BBk1(i7811)	73 lb/ft	-	-	36 lb/ft
Union         15' 11 3/8': 16' 2         BBK (7811)         261 lb/ft         193 lb/ft         -         200 lb/ft           Tapered         0': 4' 31 11/6'':         -         Smoothed Load         -         275 To 262 lb/ft         -         -           Point         31 11/16'':         -         B26(7693)         107 b         440 / 10 lb         -         -           Point         31 11/16'':         -         B14(7730)         139 lb         440 / 10 lb         -         -           Point         1' 10 7/8':         -         B14(7730)         139 lb         440 / 10 lb         -         -         -           Point         3' 6' 1/8':         -         B14(7730)         14 lb         33 lb         -         -           Point         3' 6' 1/8':         -         B26(7780)         141 lb         38 lb         -         -         29 lb           Point         4' 7' 3/4':         -         B420(7760)         136 lb         62 lb         29 lb         -         29 lb           Point         4' 7 3/4':         -         B16(763)         13 lb         566 / -53 lb         -         29 lb           Point         6' 8 1/2':         -         B32(7769)	Uniform	14' 9 3/8" : 15' 7 7/8"	-	BBk1(i7811)		193 lb/ft	-	200 lb/ft
Tapered0': 4' 3 11/16''Smoothed Load.275 To 262 lbftPoint3 11/16''B26(77693)107 lb $440/10$ lbPoint3 11/16''B26(7730)139 lbPoint1' 10 7/8''B26(7730)139 lb440/10 lbPoint1' 10 7/8''B26(7730)139 lb.400/10 lbPoint3' 6 1/8''B24(7789)84 lb335 lbPoint3' 6 1/8''BE4(7781)2283 lb2596/-376 lbPoint4' 7 3/4''BE4(7781)179 lb1514/-41 lb <td>Uniform</td> <td>15' 1 5/8" : 16' 2</td> <td>-</td> <td>BBk1(i7811)</td> <td>502 lb/ft</td> <td>936 lb/ft</td> <td>-</td> <td>-</td>	Uniform	15' 1 5/8" : 16' 2	-	BBk1(i7811)	502 lb/ft	936 lb/ft	-	-
Point $311/16^\circ$ : $B26(1793)$ $107$ b $440/-10$ bPoint $311/16^\circ$ : $B14(17631)$ $98$ bPoint $1107/8^\circ$ : $B26(1770)$ $139$ b $440/-10$ bPoint $1107/8^\circ$ : $B14(17632)$ $98$ bPoint $3^\circ$ 61/8^\circ: $B26(17800)$ $141$ b $-8$ bb221 bPoint $4^\circ$ 2': $B26(17800)$ $141$ b $-8$ bb-221 bPoint $4^\circ$ 73/4': $M1+2(1766)$ $1759$ b $1514/-41$ b- $229$ bPoint $4^\circ$ 73/4': $B14'(207766)$ $1086$ b $628$ b- $221$ bPoint $4^\circ$ 10.5/16': $B16(7634)$ $121$ b $319$ b- $221$ bPoint $515/16':-$ - $B26(17769)$ $133$ b $556/-53$ b $21$ bPoint $6^\circ$ 81/2': $B26(17769)$ $133$ b $556/-53$ b $21$ bPoint $6^\circ$ 81/2': $B16(17637)$ $114$ b $455$ b $-$ Point $6^\circ$ 81/12': $B16(17637)$ $114$ b $455$ b $-$ Point $6^\circ$ 81/12': $B16(17637)$ $114$ b $455$ bPoint $6^\circ$ 10/78': $B16($	Uniform		-	. ,	261 lb/ft		-	200 lb/ft
Point $3 11/16^*$ :- $B14(7731)$ $98$ bPoint $1^1 10778^*$ :- $B26(7730)$ $139$ b $440/-10$ bPoint $3^1 6 178^*$ :- $B14(7782)$ $98$ bPoint $3^2 6 178^*$ :- $B14(7782)$ $84$ b $335$ bPoint $3^2 6 178^*$ :- $B26(7780)$ $141$ b $-8$ bPoint $4^2 7: -$ - $B28(7781)$ $2283$ b $2596/-376$ b $229$ bPoint $4^4 7 3/4^*$ :- $M1-2(7816)$ $1759$ b $1514/-41$ b- $29$ bPoint $4^4 7 3/4^*$ :- $B14'_2(7766)$ $1086$ b $628$ b- $29$ bPoint $5^* 15/16^*$ :- $B16(7633)$ $122$ b $593$ bPoint $5^* 15/16^*$ :- $B32(7769)$ $133$ b $566/-53$ bPoint $6^* 8 1/2^*$ :- $B32(7739)$ $134$ b $615/-46$ b2 bPoint $6^* 3 11/16^*$ :- $B16(7637)$ $114$ b $455$ bPoint $8^* 3 11/16^*$ :- $B32(7739)$ $371$ b $615/-46$ b $35$ bPoint $9^* 107/8^*$ :- $B16(77637)$ $114$ b $455$ bPoint $9^* 107/8^*$ :- $B16(7773)$ $371$ b $615/-46$ b $34$ bPoint $9^* 107/8^*$ :- $B16(7773)$ $24$ b $619$ b-<	•		-				-	-
Point1'10 7/8':B26'(7730)139 lb440 / -10 lbPoint1'10 7/8':B14'(7632)98 lbPoint3' 6 1/8':B14'(7789)84 lb335 lbPoint3' 6 1/8':B26'(7800)141 lb-8 lbPoint4' 2':B8k1(7711)228 lb2596 / -376 lb-829 lbPoint4' 7 3/4':B8k1(7711)279 lb1514 / 41 lb-29 lbPoint4' 7 3/4':B14'-2(7766)1086 lb628 lb-29 lbPoint4' 10 15/16':B16'(7634)121 lb319 lb-29 lbPoint5' 1 5/16':B16'(7634)121 lb319 lb-21 lbPoint6' 8 1/2':B32'(7769)133 lb556 / -53 lbPoint6' 8' 1/16':B8k1(7811)18 lb66 lb-21 lbPoint6' 8' 311/16':B16'(7637)114 lb455 lbPoint8' 3 11/16':B16'(77637)114 lb455 lbPoint9' 10 7/8':B16'(77637)114 lb455 lbPoint9' 10 7/8':B16'(77637)114 lb455 lbPoint9' 10 7/8':B16'(77637)114 lb455 lbPoint9' 1			-	· ,		440 / -10 lb	-	-
Point1'10 7/8':B14'(7632)98 lbPoint3'6 1/8'':B14'(7789)84 lb335 lbPoint3'6 1/8'':B26'(7800)141 lb81 bPoint4'2':BBK1(7811)2283 lb2596 / -376 lb-221 lbPoint4'7 3/4':BK1(7811)179 lb1514 / 41 lb-221 lbPoint4'10 15/16':BBK1(7786)1086 lb628 lb-291 lbPoint5'1 5/16':BBK1(7781)79 lb41 lb-49 lbPoint5'1 5/16':B16'(7635)192 lb593 lb-22 lbPoint6'8 1/2':B32'(7769)133 lb556 / -53 lbPoint6'8 7/8':B8k1(7811)18 lb66 lb-21 lbPoint6'9 7/8':B16'(7639)134 lb1254 lbPoint8'3 11/16':B16'(7789)371 lb615 / -46 lbPoint9'10 7/8':B16'(7739)371 lb615 / -46 lbPoint9'10 7/8':B16'(7739)371 lb615 / -46 lbPoint9'10 7/8':B16'(7749)234 lb619 lbPoint11'6 1/8':B32'(7729)324 lb619 lbPoint11'6 1/8':- <td></td> <td></td> <td>-</td> <td>( )</td> <td></td> <td>-</td> <td>-</td> <td>-</td>			-	( )		-	-	-
Point $3^\circ 6 1/8^\circ$ :- $\cdot$ B14(17789) $84$ lb $335$ lb $\cdot$ $\cdot$ Point $3^\circ 6 1/8^\circ$ :- $\cdot$ B26(17800)141 lb $-8$ lb $\cdot$ $\cdot$ Point $4^\circ 7 34^\circ$ :- $\cdot$ B26(17801)2283 lb $256/-376$ lb $\cdot$ $221$ lbPoint $4^\circ 7 34^\circ$ :- $\cdot$ B14'-2(17766)1759 lb1514/-41 lb $\cdot$ $221$ lbPoint $4^\circ 7 34^\circ$ :- $\cdot$ B14'-2(17766)1086 lb $628$ lb $\cdot$ $291$ lbPoint $4^\circ 105/6^\circ$ :- $\cdot$ B16'(17634)121 lb $319$ lb $\cdot$ $221$ lbPoint $5^\circ 15/16^\circ$ :- $\cdot$ B16'(17635)192 lb $593$ lb $\cdot$ $-$ Point $6^\circ 8 1/2^\circ$ :- $\cdot$ B16'(17635)192 lb $556/-53$ lb $\cdot$ $-$ Point $6^\circ 8 1/2^\circ$ :- $\cdot$ B16'(17630)134 lb $255/-53$ lb $\cdot$ $-$ Point $6^\circ 8 1/2^\circ$ :- $\cdot$ B16'(17630)114 lb $455$ lb $\cdot$ $-$ Point $6^\circ 8 1/2^\circ$ :- $\cdot$ B16'(17630)114 lb $455$ lb $\cdot$ $-$ Point $8^\circ 3 11/16^\circ$ :- $\cdot$ B16'(17637)114 lb $455$ lb $\cdot$ $-$ Point $9^\circ 107/8^\circ$ :- $\cdot$ B16'(17637)114 lb $455$ lb $\cdot$ $-$ Point $9^\circ 107/8^\circ$ :- $\cdot$ B16'(17637)114 lb $455$ lb $\cdot$ $-$ Point $9^\circ 107/8^\circ$ :- $\cdot$ B16'(17637)114 lb $619$ lb <t< td=""><td></td><td></td><td>-</td><td>. ,</td><td></td><td>440 / -10 lb</td><td>-</td><td>-</td></t<>			-	. ,		440 / -10 lb	-	-
Point $3^{\circ}$ 6 1/8":B26'(7800)141 lb-8 lbPoint $4^{\circ}$ 2":BBk((7811)2283 lb2596 / -376 lb-829 lbPoint $4^{\circ}$ 7 3/4":M12/(7816)1759 lb1514 / -41 lb-27 lbPoint $4^{\circ}$ 7 3/4":B14'-2(7766)1086 lb628 lb-29 lbPoint $4^{\circ}$ 10 15/16":B8k((7811)79 lb41 lb-49 lbPoint51 5/16":B32(07809)104 lb325 / -36 lbPoint6' 8 1/2":B16'(7635)192 lb593 lbPoint6' 8 1/2":B32(07709)133 lb566 / -53 lbPoint6' 8 1/2":B32'(07799)1594 lb1254 lbPoint6' 8 3 11/16":-B16'(7637)114 lb455 lbPoint8' 3 11/16":-B16'(7761)234 lb619 lbPoint9' 10 7/8":-B16'(7761)234 lb619 lbPoint9' 10 7/8":-B16'(7763)28 lb52 lbPoint11' 6 1/8":-B16'(7763)21 lb61 lbPoint11' 6 1/8":-B16'(7763)21 lb61 lbPoint11' 6 1/8":-B16'(7763)21 lb61 lbPoint11' 6 1/8":-B16'(7776)23 lb52 l			-	· ,		-	-	-
Point4' 2":BBk1(7811)2283 lb2596 / -376 lb-829 lbPoint4' 7 3/4":M1-2(7761)1759 lb1514 / -41 lb-27 lbPoint4' 10 15/16":B14' 2(17766)1086 lb628 lb-29 lbPoint4' 10 15/16":B14' 2(1766)104 lb319 lb-49 lbPoint5' 15/16":B16' (7634)121 lb319 lb-29 lbPoint6' 8 1/2":B32' (7769)132 lb533 lb-32 lbPoint6' 8 1/2":B54' (17811)18 lb66 lb-2 lbPoint6' 8 1/2":B32' (1779)133 lb556 / -53 lbPoint6' 8 1/2":B54' (17811)18 lb66 lb-2 lbPoint6' 3 11/16':M2-2 (1799)1594 lb1254 lbPoint8' 3 11/16':B16' (17631)114 lb455 lbPoint9' 10 7/8':B16' (1773)114 lb455 lbPoint10' 0 5/16':B16' (1773)26 lb52 lbPoint11' 6 1/8':B16' (17756)215 lb614 lbPoint11' 6 1/8':B16' (1774)24 lb614 lbPoint14' 8 1/2':B16' (17756)215 lb614 lb<			-	( )			-	-
Point $4'7 3/4':$ -M1-2(7816)1759 lb1514/-41 lb-27 lbPoint $4'7 3/4':$ -B14'2(7766)1086 lb628 lb-29 lbPoint $4'10 15/16':$ -BBk1(7811)79 lb41 lb-49 lbPoint $5' 15/16':$ -B16'(7634)121 lb319 lb-29 lbPoint $5' 15/16':$ -B16'(7635)192 lb593 lb-32 lbPoint $6' 8 1/2':$ -B16'(7635)192 lb593 lb-32 lbPoint $6' 8 1/2':$ -B8k1(7811)18 lb66 lb-2 lbPoint $6' 9 7/8':$ -B8k1(7811)18 lb66 lb-2 lbPoint $6' 9 10'78':$ -B32(17799)371 lb615/-46 lbPoint $8' 3 11/16':$ -B32(1773)371 lb615/-46 lbPoint $9' 10 7/8':$ -B32(1773)371 lb615/-46 lbPoint $9' 10 7/8':$ -B32(1773)371 lb615/-46 lbPoint11' 6 1/8':-B32(1772)256 lb494 /-50 lbPoint11' 6 1/8':-B32(1770)342 lb586 /-46 lbPoint11' 6 1/8':-B32(1776)215 lb614 lbPoint11' 6 1/8':-B32(1770)342 lb586 /-46 lbPoi			-	( )			-	-
Point4' 7 3/4":B14'-2(7766)1086 lb628 lb-29 lbPoint4' 10 15/16":BBR1(7811)79 lb41 lb-49 lbPoint5' 1 5/16":B16(7634)121 lb319 lb-29 lbPoint5' 1 5/16":B16(7635)192 lb593 lbPoint6' 8 1/2":B16(7769)133 lb556 / -53 lbPoint6' 8 1/2":B32(7709)133 lb556 / -53 lbPoint6' 8 1/2":B32(7799)1594 lb1254 lb-65 lbPoint8' 3 11/16":B16(77810)114 lb455 lbPoint8' 3 11/16":B32(7739)371 lb615 / -46 lbPoint9' 10 7/8":B16(7764)234 lb619 lbPoint11' 6 1/8":B16(7764)234 lb619 lbPoint11' 6 1/8":B32(7772)256 lb494 / -50 lbPoint11' 6 1/8":B32(7770)342 lb661 lbPoint11' 6 1/8":B16(7753)281 lb671 lbPoint11' 6 1/8":B32(7770)342 lb586 / -46 lbPoint11' 6 1/8":B16(7753)251 lb614 lbPoint11' 6 1/8":			-	. ,			-	
Point       4' 10 15/16'':-       -       BBk1(7811)       79 lb       41 lb       -       49 lb         Point       5' 1 5/16'':-       -       B16(7634)       121 lb       319 lb       -       29 lb         Point       5' 1 5/16'':-       -       B32(7809)       104 lb       325/-36 lb       -       -         Point       6' 8 1/2'':-       -       B32(7769)       133 lb       556/-53 lb       -       -         Point       6' 8 1/2'':-       -       BBk1(7811)       18 lb       66 lb       -       2 lb         Point       6' 8 11/16'':-       -       BBk1(7811)       18 lb       66 lb       -       2 lb         Point       6' 8 3 11/16'':-       -       BBk1(7739)       371 lb       155 lb       -       -         Point       9' 10 7/8'':-       -       B16(7761)       114 lb       455 lb       -       -         Point       9' 10 7/8'':-       -       B16(7761)       24 lb       51 lb       -       -         Point       10' 0 5/16'':-       -       B16(7764)       234 lb       619 lb       -       -         Point       11' 6 1/8'':-       -       B16(77761)       236 lb <td></td> <td></td> <td>-</td> <td>· · · ·</td> <td></td> <td></td> <td>-</td> <td></td>			-	· · · ·			-	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			-	( )			-	
Point $5' 1 5/16":-$ -B32(i7809)104 lb $325/-36$ lbPoint $6' 8 1/2":-$ -B16(i7635)192 lb $593$ lb-32 lbPoint $6' 8 1/2":-$ -B32(i7769)133 lb $556/-53$ lbPoint $6' 8 1/2":-$ -BBk1(i7811)18 lb $66$ lb-2 lbPoint $8' 3 11/16":-$ -BBk1(i7811)18 lb $455$ lbPoint $8' 3 11/16":-$ -B16(i7790)114 lb $455$ lbPoint9' 10 7/8":B16(i7737)114 lb $455$ lbPoint9' 10 7/8":B16(i77637)114 lb $455$ lbPoint10' 0 5/16":B16(i7764)234 lb619 lbPoint11' 6 1/8":B16(i7773)26 lb52 lbPoint11' 6 1/8":B16(i7793)281 lb617 lbPoint11' 6 1/8":B16(i7793)281 lb619 lbPoint11' 6 1/8":B16(i7793)281 lb571 lb-46 lbPoint11' 6 1/8":B16(i7793)281 lb571 lb-47 lbPoint11' 8 1/2":B16(i7756)215 lb614 lb-34 lbPoint14' 8 1/2":B18(i7781)25 lb52 lbPoint			-	. ,			-	
Point         6 '8 1/2" :-         -         B 16 (17635)         192 lb         593 lb         -         32 lb           Point         6 '8 1/2" :-         -         B32'(17769)         133 lb         556 / -53 lb         -         -           Point         6 '9 7/8" :-         -         BBk1(17811)         18 lb         66 lb         -         2 lb           Point         8 '3 11/16" :-         -         M2-2(7999)         1594 lb         1254 lb         -         -           Point         8 '3 11/16" :-         -         B16'(17810)         114 lb         455 lb         -         -           Point         9' 10 7/8" :-         -         B32'(17739)         371 lb         615 / -46 lb         -         35 lb           Point         9' 10 7/8" :-         -         B16'(17637)         114 lb         455 lb         -         -           Point         10' 0 5/16' :-         -         B16'(17764)         224 lb         619 lb         -         -           Point         11' 6 1/8" :-         -         B32'(17700)         245 lb         671 lb         -         -           Point         13' 1 5/16" :-         -         B32'(17760)         215 lb         614 lb <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td></td>			-				-	
Point       6' 8 1/2":-       -       B32(17769)       133 lb       556 / -53 lb       -       -         Point       6' 9 7/8":-       -       BBk1(17811)       18 lb       66 lb       -       2 lb         Point       8' 3 11/16":-       -       M2-2(17999)       1594 lb       1254 lb       -       65 lb         Point       8' 3 11/16":-       -       B16'(1781)       114 lb       455 lb       -       -         Point       9' 10 7/8":-       -       B16'(1763)       114 lb       455 lb       -       -         Point       9' 10 7/8":-       -       B16'(1763)       114 lb       455 lb       -       -         Point       10' 0 5/16":-       -       B16'(17764)       234 lb       619 lb       -       34 lb         Point       11' 6 1/8":-       -       B16'(17764)       234 lb       619 lb       -       -         Point       11' 6 1/8":-       -       B16'(1771)       266 lb       57 lb       -       -         Point       11' 7 1/2":-       -       B16'(17793)       281 lb       671 lb       -       46 lb         Point       13' 4 5/16":-       -       B16'(17756)       215 l			-				-	
Point       6' 9 7/8":-       -       BBk1(i7811)       18 lb       66 lb       -       2 lb         Point       8' 3 11/16":-       -       M2-2(i7999)       1594 lb       1254 lb       -       65 lb         Point       8' 3 11/16":-       -       B16'(i7810)       114 lb       455 lb       -       -         Point       9' 10 7/8":-       -       B32'(i7739)       371 lb       615 / -46 lb       -       35 lb         Point       9' 10 7/8":-       -       B16'(i7637)       114 lb       455 lb       -       -         Point       10' 0 5/16":-       -       B16'(i7637)       114 lb       455 lb       -       -         Point       11' 6 1/8":-       -       B16'(i774)       234 lb       619 lb       -       34 lb         Point       11' 6 1/8":-       -       B32'(i772)       256 lb       494 / -50 lb       -       -         Point       11' 6 1/8":-       -       B32'(i779)       34 lb       619 lb       -       46 lb         Point       13' 1 5/16":-       -       B32'(i7700)       342 lb       586 / -46 lb       -       46 lb         Point       14' 8 1/2":-       -       B32'(i774			-				-	
Point       8'3 11/16":-       -       M2-2(7999)       1594 lb       1254 lb       -       65 lb         Point       8'3 11/16":-       -       B16'(77810)       114 lb       455 lb       -       -         Point       9' 10 7/8":-       -       B32'(7739)       371 lb       615 / -46 lb       -       35 lb         Point       9' 10 7/8":-       -       B16'(7637)       114 lb       455 lb       -       -         Point       10' 0 5/16":-       -       BBk1(7811)       26 lb       52 lb       -       -         Point       11' 6 1/8":-       -       BBk1(7774)       234 lb       619 lb       -       34 lb         Point       11' 6 1/8":-       -       BBk1(7772)       256 lb       494 / -50 lb       -       -         Point       11' 7 1/8":-       -       BBk1(7793)       281 lb       671 lb       -       46 lb         Point       13' 1 5/16":-       -       B32'(7700)       342 lb       586 / -46 lb       -       47 lb         Point       14' 8 1/2":-       -       B16'(7756)       215 lb       614 lb       -       46 lb         Point       14' 9 7/8":-       -       B8k1(7811) <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td></td>			-				-	
Point       8' 3 11/16":-       -       B16'(i7810)       114 lb       455 lb       -       -         Point       9' 10 7/8":-       -       B32'(i7739)       371 lb       615 / 46 lb       -       35 lb         Point       9' 10 7/8":-       -       B16'(i7637)       114 lb       455 lb       -       -         Point       10' 0 5/16":-       -       BBk1(i7811)       26 lb       52 lb       -       -         Point       11' 6 1/8":-       -       B16'(i7764)       234 lb       619 lb       -       -         Point       11' 6 1/8":-       -       B16'(i7761)       26 lb       52 lb       -       -         Point       11' 6 1/8":-       -       B16'(i7711)       26 lb       51 / -50 lb       -       -         Point       11' 6 1/8":-       -       B16'(i773)       28 lb       57 lb       -       -       46 lb         Point       13' 1 5/16":-       -       B16'(i7756)       215 lb       614 lb       -       34 lb         Point       14' 8 1/2":-       -       B2(i7742)       219 lb       422 / -42 lb       -       -         Point       14' 8 1/2":-       -       B2(i7742) </td <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td></td>			-				-	
Point       9' 10 7/8":-       -       B32'(7739)       371 lb       615 / -46 lb       -       35 lb         Point       9' 10 7/8":-       -       B16'(i7637)       114 lb       455 lb       -       -         Point       10' 0 5/16":-       -       BBk1(i7811)       26 lb       52 lb       -       -         Point       11' 6 1/8":-       -       B16'(i7764)       234 lb       619 lb       -       34 lb         Point       11' 6 1/8":-       -       B32'(i7772)       256 lb       494 / -50 lb       -       -         Point       11' 7 1/2":-       -       BBk1(i7811)       36 lb       57 lb       -       -         Point       13' 1 5/16":-       -       B16'(i7793)       281 lb       671 lb       -       46 lb         Point       13' 4 5/16":-       -       B32'(i7700)       342 lb       586 / -46 lb       -       47 lb         Point       14' 8 1/2": -       -       B16'(i7756)       215 lb       614 lb       -       -         Point       14' 8 1/2": -       -       B8k1(i7811)       25 lb       52 lb       -       -         Point       14' 8 1/2": -       -       B8k1(i7811)			-				-	
Point       9' 10 7/8":-       -       B16'(7637)       114 lb       455 lb       -       -         Point       10' 0 5/16":-       -       BBk1(i7811)       26 lb       52 lb       -       -         Point       11' 6 1/8":-       -       B16'(i764)       234 lb       619 lb       -       34 lb         Point       11' 6 1/8":-       -       B32'(i772)       256 lb       494 / -50 lb       -       -         Point       11' 7 1/2":-       -       BBk1(i7811)       36 lb       57 lb       -       -         Point       13' 1 5/16":-       -       B16'(i7793)       281 lb       671 lb       -       46 lb         Point       13' 4 5/16":-       -       B16'(i7793)       281 lb       671 lb       -       46 lb         Point       13' 4 5/16":-       -       B16'(i7793)       281 lb       614 lb       -       47 lb         Point       14' 8 1/2": -       -       B32'(i7742)       219 lb       422 / -42 lb       -       -         Point       14' 8 1/2": -       -       B8k1(i7811)       25 lb       52 lb       -       -         Point       14' 9 7/8": -       -       B8k1(i7811)			-	· ,			-	
Point       10' 0 5/16": -       -       BBk1(i781)       26 lb       52 lb       -       -         Point       11' 6 1/8": -       -       B16'(i7764)       234 lb       619 lb       -       34 lb         Point       11' 6 1/8": -       -       B32'(i772)       256 lb       494 / -50 lb       -       -         Point       11' 7 1/2": -       -       BBk1(i7811)       36 lb       57 lb       -       -         Point       13' 1 5/16": -       -       B16'(i7793)       281 lb       671 lb       -       46 lb         Point       13' 4 5/16": -       -       B32'(i7700)       342 lb       586 / -46 lb       -       47 lb         Point       14' 8 1/2": -       -       B32'(i7700)       342 lb       586 / -46 lb       -       34 lb         Point       14' 8 1/2": -       -       B32'(i7742)       219 lb       422 / -42 lb       -       -         Point       14' 9 7/8": -       -       BBk1(i7811)       25 lb       52 lb       -       -       -         Point       14' 9 7/8": -       -       BBk1(i7811)       16 lb       63 lb       -       -         Point       16' 3 11/16": -       - </td <td></td> <td></td> <td>-</td> <td>. ,</td> <td></td> <td></td> <td>-</td> <td></td>			-	. ,			-	
Point       11'6 1/8":-       -       B16'(17764)       234 lb       619 lb       -       34 lb         Point       11'6 1/8":-       -       B32'(1772)       256 lb       494 / -50 lb       -       -         Point       11'7 1/2":-       -       BBk1(1781)       36 lb       57 lb       -       -         Point       13' 1 5/16":-       -       B16'(17793)       281 lb       671 lb       -       46 lb         Point       13' 4 5/16":-       -       B32'(17700)       342 lb       586 / -46 lb       -       47 lb         Point       14' 8 1/2":-       -       B16'(17756)       215 lb       614 lb       -       34 lb         Point       14' 8 1/2":-       -       B32'(17742)       219 lb       422 / -42 lb       -       -         Point       14' 8 1/2":-       -       B8k1(17811)       25 lb       52 lb       -       -       -         Point       14' 9 7/8":-       -       B8k1(17811)       16 lb       63 lb       -       -         Point       14' 10 11/16":-       -       B8k1(17811)       316 lb       515 / -46 lb       -       -         Point       16' 3 11/16":-       -			-	. ,			-	-
Point $11' 6 1/8": -$ - $B32'(7772)$ $256 lb$ $494/-50 lb$ Point $11' 7 1/2": -$ - $BBk1(7811)$ $36 lb$ $57 lb$ Point $13' 1 5/16": -$ - $B16'(7793)$ $281 lb$ $671 lb$ - $46 lb$ Point $13' 4 5/16": -$ - $B32'(7700)$ $342 lb$ $586/-46 lb$ - $47 lb$ Point $14' 8 1/2": -$ - $B16'(7756)$ $215 lb$ $614 lb$ - $34 lb$ Point $14' 8 1/2": -$ - $B32'(7742)$ $219 lb$ $422/-42 lb$ Point $14' 9 7/8": -$ - $B8k1(7811)$ $25 lb$ $52 lb$ Point $14' 10 11/16": -$ - $B8k1(7811)$ $16 lb$ $63 lb$ Point $16' 3 11/16": -$ - $B32'(7794)$ $316 lb$ $515/-46 lb$ Point $16' 3 11/16": -$ - $B16'(7798)$ $82 lb$ $327 lb$ Point $16' 5 1/16": -$ - $B8k1(7811)$ $43 lb$ $80 lb$			-				-	-
Point       11' 7 1/2": -       -       BBk1(i7811)       36 lb       57 lb       -       -         Point       13' 1 5/16": -       -       B16'(i7793)       281 lb       671 lb       -       46 lb         Point       13' 4 5/16": -       -       B32'(i7700)       342 lb       586 / -46 lb       -       47 lb         Point       14' 8 1/2": -       -       B16'(i7756)       215 lb       614 lb       -       34 lb         Point       14' 8 1/2": -       -       B32'(i7742)       219 lb       422 / -42 lb       -       -         Point       14' 9 7/8": -       -       BBk1(i7811)       25 lb       52 lb       -       -         Point       14' 10 11/16": -       -       BBk1(i7811)       16 lb       63 lb       -       -         Point       16' 3 11/16": -       -       B32'(i7794)       316 lb       515 / -46 lb       -       35 lb         Point       16' 3 11/16": -       -       B16'(i7798)       82 lb       327 lb       -       -         Point       16' 5 1/16": -       -       B8k1(i7811)       43 lb       80 lb       -       -			-	· ,			-	
Point       13' 1 5/16": -       -       B16'(17793)       281 lb       671 lb       -       46 lb         Point       13' 4 5/16": -       -       B32'(1770)       342 lb       586 / -46 lb       -       47 lb         Point       14' 8 1/2": -       -       B16'(17756)       215 lb       614 lb       -       34 lb         Point       14' 8 1/2": -       -       B32'(17742)       219 lb       422 / -42 lb       -       -         Point       14' 9 7/8": -       -       BBk1(17811)       25 lb       52 lb       -       -         Point       14' 10 11/16": -       -       BBk1(17811)       16 lb       63 lb       -       -         Point       16' 3 11/16": -       -       B32'(17794)       316 lb       515 / -46 lb       -       -         Point       16' 3 11/16": -       -       B16'(17798)       82 lb       327 lb       -       -         Point       16' 5 1/16": -       -       B8k1(17811)       43 lb       80 lb       -       -			-	. ,			-	-
Point       13' 4 5/16": -       -       B32'(1770)       342 lb       586 / -46 lb       -       47 lb         Point       14' 8 1/2": -       -       B16'(17756)       215 lb       614 lb       -       34 lb         Point       14' 8 1/2": -       -       B32'(17742)       219 lb       422 / -42 lb       -       -         Point       14' 9 7/8": -       -       BBk1(17811)       25 lb       52 lb       -       -         Point       14' 10 11/16": -       -       BBk1(17811)       16 lb       63 lb       -       -         Point       16' 3 11/16": -       -       B32'(17794)       316 lb       515 / -46 lb       -       35 lb         Point       16' 3 11/16": -       -       B16'(17798)       82 lb       327 lb       -       -         Point       16' 5 1/16": -       -       B8k1(i7811)       43 lb       80 lb       -       -			-				-	-
Point       14' 8 1/2": -       -       B16'(17756)       215 lb       614 lb       -       34 lb         Point       14' 8 1/2": -       -       B32'(17742)       219 lb       422 / -42 lb       -       -         Point       14' 9 7/8": -       -       BBk1(17811)       25 lb       52 lb       -       -         Point       14' 10 11/16": -       -       BBk1(17811)       16 lb       63 lb       -       -         Point       16' 3 11/16": -       -       B32'(17794)       316 lb       515 / -46 lb       -       35 lb         Point       16' 3 11/16": -       -       B16'(17798)       82 lb       327 lb       -       -         Point       16' 5 1/16": -       -       BBk1(17811)       43 lb       80 lb       -       -			-	( )			-	
Point       14' 8 1/2": -       -       B32'(7742)       219 lb       422 / -42 lb       -       -         Point       14' 9 7/8": -       -       BBk1(i7811)       25 lb       52 lb       -       -         Point       14' 10 11/16": -       -       BBk1(i7811)       16 lb       63 lb       -       -         Point       16' 3 11/16": -       -       B32'(i774)       316 lb       515 / -46 lb       -       35 lb         Point       16' 3 11/16": -       -       B16'(i7798)       82 lb       327 lb       -       -         Point       16' 5 1/16": -       -       BBk1(i7811)       43 lb       80 lb       -       -			-	· ,			-	
Point         14' 9 7/8": -         -         BBk1(i781)         25 lb         52 lb         -         -           Point         14' 10 11/16": -         -         BBk1(i781)         16 lb         63 lb         -         -           Point         16' 3 11/16": -         -         B32'(i7794)         316 lb         515 / -46 lb         -         35 lb           Point         16' 3 11/16": -         -         B16'(i7798)         82 lb         327 lb         -         -           Point         16' 5 1/16": -         -         BBk1(i7811)         43 lb         80 lb         -         -			-				-	34 lb
Point         14' 10 11/16": -         -         BBk1(i7811)         16 lb         63 lb         -         -           Point         16' 3 11/16": -         -         B32'(i7794)         316 lb         515 / -46 lb         -         35 lb           Point         16' 3 11/16": -         -         B16'(i7798)         82 lb         327 lb         -         -           Point         16' 5 1/16": -         -         BBk1(i7811)         43 lb         80 lb         -         -			-				-	-
Point         16' 3 11/16": -         -         B32'(i7794)         316 lb         515 / -46 lb         -         35 lb           Point         16' 3 11/16": -         -         B16'(i7798)         82 lb         327 lb         -         -           Point         16' 5 1/16": -         -         BBk1(i7811)         43 lb         80 lb         -         -			-				-	-
Point         16' 3 11/16" : -         -         B16'(i7798)         82 lb         327 lb         -         -           Point         16' 5 1/16" : -         -         BBk1(i7811)         43 lb         80 lb         -         -			-	. ,			-	
Point 16' 5 1/16" : BBk1 (i7811) 43 lb 80 lb			-				-	35 10
			-				-	-
Punit 10 5 9/10": BBK1(1/811) 53 lb 31 lb - 38 lb			-				-	
	Point	16 5 9/16 :-	-	BBK1(1/811)	53 ID	31 ID	-	JO ID



# **Member Report**

Label: M7-3 | Design Tag: i7815

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

#### Errors, Warnings, & Notes:

- \* If sloping roof loads are applied to this member, the roof dead load has been adjusted for slope.
- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* Load Duration Factors: Dead 0.90, Floor Live 1.00, Roof Live 1.25, Snow 1.15

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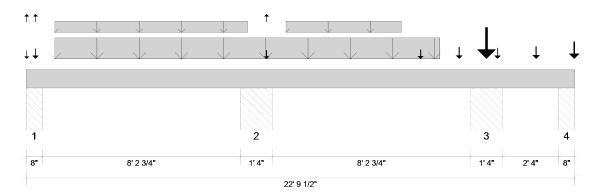




# **Member Report**

Label: M5-3 | Design Tag: i7814 3 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Design Methodology: ASI	Member Cut Leng	gth: 22' 9 1/2"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	5384 lb @ 22' 3"	31500 lb (8")	Passed - 17%	-	1.0 D + 1.0 L - (1)
Shear	4028 lb @ 8' 1 1/2"	9227 lb	Passed - 44%	1.00	1.0 D + 1.0 L - (1)
Moment	-6550 lb-ft @ 9' 0 1/4"	16806 lb-ft	Passed - 39%	1.00	1.0 D + 1.0 L - (1)
Live Load Deflection	0.09" @ 4' 6 1/16"	0.28" L/360	Passed - L/999	-	1.0 D + 1.0 L - (1)
Total Load Deflection	0.10" @ 4' 5 1/4"	0.42" L/240	Passed - L/991	-	1.0 D + 1.0 L - (1)
Vertical Load Capacity Check	Passed				

### Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 22-10-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 22-10-00 o/c based on loads applied, unless detailed otherwise.

Supports:				Maximum Loads to Supports				
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow	
1	0":8"	1.5"	PBO11(i2393)	742 lb	2836 / -203 lb	-	-3 lb	
2	8' 10 3/4" : 10' 2 3/4"		PBO16(i2401)	1879 lb	8736 lb	-	35 / -35 lb	
==>	9' 0 1/4" : -	1.68"	PBO16(i2401)	1395 lb	5295 lb	-	2 / -26 lb	
==>	10' 1 1/4" : -	1.5"	PBO16(i2401)	484 lb	3441 lb	-	33 / -9 lb	
3	18' 5 1/2" : 19' 9 1/2"		PBO6(i2388)	6064 lb	13197 lb	-	59 / -262 lb	
==>	18' 7" : -	1.76"	PBO6(i2388)	5483 lb	8389 lb	-	59 / -117 lb	
==>	19' 8" : -	1.5"	PBO6(i2388)	581 lb	4808 lb	-	-145 lb	
4	22' 1 1/2" : 22' 9 1/2"	1.5"	PBO7(i2389)	3475 lb	3005 / -111 lb	-	717 lb	

Loads:	

Loads:				Maximum Loads on Member				
Type	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 22' 9 1/2"	-	Self Weight	13 lb/ft	-	-	-	
Uniform	1' 2 1/4" : 17' 2 1/4"	-	Smoothed Load	-	665 lb/ft	-	-	
Uniform	10' 9 7/16" : 15' 7	-	Smoothed Load	167 lb/ft	-	-	-	
Tapered	1' 2 1/4" : 9' 2 1/4"	-	Smoothed Load	168 To 169 lb/ft	-	-	-	
Point	1/4" : -	-	M2-2(i7817)	45 lb	77 / -3 lb	-	-	
Point	4 5/8" : -	-	B26'(i7741)	186 lb	767 lb	-	-3 lb	
Point	9' 11 7/8" : -	-	B26'(i7690)	248 lb	-	-	-6 lb	
Point	16' 4 5/8" : -	-	B26'(i7730)	501 lb	-	-	-	
Point	17' 11 7/8" : -	-	B26'(i7800)	578 lb	913 lb	-	-	
Point	19' 1 1/2" : -	-	M1-2(i7816)	4820 lb	4444 lb	-	-	
Point	19' 7 1/16" : -	-	B32'(i7809)	328 lb	851 lb	-	-	
Point	21' 2 1/4" : -	-	B32'(i7769)	462 lb	1327 lb	-	-	
Point	22' 9 1/4" : -	-	M3-4(i8002)	1662 lb	1356 lb	-	611 lb	

File Name: SR-291798 370 CYPRESS CHURCH



### **Member Report**

Label: M5-3 | Design Tag: i7814

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

Point	22' 9 1/4" : -	-	M2-2(i7999)	875 lb	549 lb	-	-

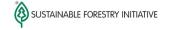
### Errors, Warnings, & Notes:

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

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

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

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



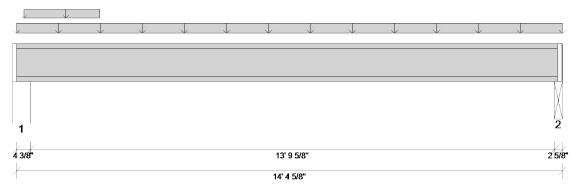


## Member Report

Floor Container: FC1 | Label: B16' | Design Tag: i7802 1 piece(s) of 11 7/8" TJI® 110 joist

Member Type: FloorJoist | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018 Design Methodology: ASD Member Cut Length: 14' 4 5/8"

Member I	Drawing Not to Scale	
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Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	574 lb @ 14' 3"	1139 lb (2.62")	Passed - 50%	1.00	1.0 D + 1.0 L - (0)
Shear	607 lb @ 4 3/8"	1560 lb	Passed - 39%	1.00	1.0 D + 1.0 L - (0)
Moment	1981 lb-ft @ 7' 2 9/16"	3160 lb-ft	Passed - 63%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.19" @ 7' 3 3/16"	0.35" L/480	Passed - L/894	-	1.0 D + 1.0 L - (0)
Total Load Deflection	0.24" @ 7' 2 15/16"	0.70" L/240	Passed - L/703	-	1.0 D + 1.0 L - (0)
TJ Pro Rating	42	25	Passed		

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

#### Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 4-00-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 14-05-00 o/c based on loads applied, unless detailed otherwise.

\* For TJ-Pro<sup>™</sup> Rating calculation the controlling span is considered to be supported by beams.

\* Member design (strength) is based on loads shown in loading section. TJ-Pro™ Rating, if shown, is based on 1-07-03 o.c. spacing.

Supports:					Maximum Load	ls to Supports	
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow
1	0":4 3/8"	1.75"	F16(i2372)	177 lb	471 lb	-	-
2	14' 2" : 14' 4 5/8"	1.75"	M7-3(i7759)	118 lb	455 lb	-	-

Loads:					Maximum Load	ls on Member	
Туре	Start : End	Combine	Source	Dead	Floor Live	Roof Live	Snow
Uniform	0" : 14' 4 5/8"	-	FC1 Floor Decking	16 lb/ft	64 lb/ft	-	-
Uniform	2 3/8" : 2' 2 3/8"	-	FC1 Floor Decking	32 lb/ft	-	-	-

#### Errors, Warnings, & Notes:

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

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

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

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

File Name: SR-291798 370 CYPRESS CHURCH REVISION DATE REVISION COMMENTS



## **Member Report**

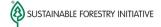
Floor Container: FC1 | Label: B16' | Design Tag: i7802

1 piece(s) of 11 7/8" TJI® 110 joist

Member Type: FloorJoist | Level: 1st Floor

Product is Sufficient for Application and Loads Described

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



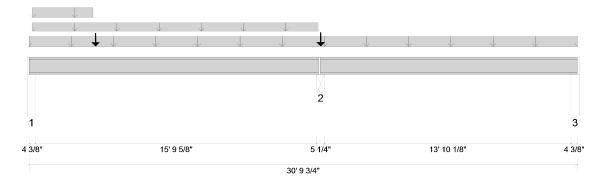


# Member Report

Floor Container: FC1 | Label: B32' | Design Tag: i7784 1 piece(s) of 11 7/8" TJI® 110 joist

Member Type: Joist As Flush Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Design Methodology: ASI	Member Cut Lenç	gth: 30' 9 3/4"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	1933 lb @ 16' 4 5/8"	2350 lb (5.25")	Passed - 82%	1.00	1.0 D + 1.0 L - (0)
Shear	952 lb @ 4 3/8"	1560 lb	Passed - 61%	1.00	1.0 D + 1.0 L - (0)
Moment	-2889 lb-ft @ 16' 4 5/8"	3160 lb-ft	Passed - 91%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.29" @ 7' 10 1/16"	0.40" L/480	Passed - L/673	-	1.0 D + 1.0 L - (0)
Total Load Deflection	0.49" @ 7' 7 1/8"	0.81" L/240	Passed - L/395	-	1.0 D + 1.0 L - (0)

Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 5-00-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 3-02-00 o/c based on loads applied, unless detailed otherwise.

\* Member design (strength) is based on loads shown in loading section. TJ-Pro<sup>TM</sup> Rating, if shown, is based on 1-07-03 o.c. spacing.

Supports:				Maximum Loads to Supports				
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow	
1	0":4 3/8"	2.08"	F10(i2375)	517 lb	471 / -46 lb	-	-	
2	16' 2" : 16' 7 1/4"	3.5"	M6-3(i7994)	591 lb	1291 lb	-	11 lb	
3	30' 5 3/8" : 30' 9 3/4"	1.75"	F6(i2360)	52 lb	424 / -78 lb	-	-	

Loads:				Maximum Loads on Member				
Type	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow	
Uniform	0" : 30' 9 3/4"	-	FC1 Floor Decking	16 lb/ft	64 lb/ft	-	-	
Uniform	2 3/8" : 16' 2 7/8"	-	FC1 Floor Decking	16 lb/ft	-	-	-	
Uniform	2 3/8" : 3' 7 1/8"	-	NB8(i2515)	73 lb/ft	-	-	-	
Point	3' 8 7/8" : -	-	NB21(i5010)	117 lb	-	-	-	
Point	16' 4 5/8" : -	-	B5(i2312)	44 lb	78 lb	-	11 lb	

#### Errors, Warnings, & Notes:

\* This member was designed as a girder member due to load and/or framing conditions. TJ-Pro<sup>™</sup> Rating, and other joist member modifiers were not used in the design of this member.

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

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

File Name: SR-291798 370 CYPRESS CHURCH REVISION DATE REVISION COMMENTS



### **Member Report**

Floor Container: FC1 | Label: B32' | Design Tag: i7784

1 piece(s) of 11 7/8" TJI® 110 joist

Member Type: Joist As Flush Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

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

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

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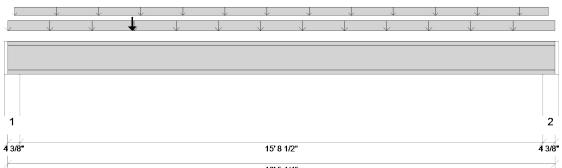


# **Member Report**

Floor Container: FC1 | Label: B18' | Design Tag: i7781 1 piece(s) of 11 7/8" TJI® 110 joist

Member Type: FloorJoist | Level: 1st Floor

Product is Sufficient for Application and Loads Described



16' 5 1/4"

Building Code: IBC 2018	Design Methodology: ASE	Member Cut Leng	gth: 16' 5 1/4"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	881 lb @ 3 3/8"	1375 lb (3.5")	Passed - 64%	1.00	1.0 D + 1.0 L - (0)
Shear	849 lb @ 4 3/8"	1560 lb	Passed - 54%	1.00	1.0 D + 1.0 L - (0)
Moment	3238 lb-ft @ 7' 11 5/16"	3160 lb-ft	Passed - 102%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.30" @ 8' 2 5/8"	0.40" L/480	Passed - L/631	-	1.0 D + 1.0 L - (0)
Total Load Deflection	0.49" @ 8' 1 7/8"	0.79" L/240	Passed - L/390	-	1.0 D + 1.0 L - (0)
TJ Pro Rating	38	25	Passed		

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

#### **Design Notes:**

\* Top Edge Bracing (Lu): Top compression edge must be braced at 3-00-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 16-05-00 o/c based on loads applied, unless detailed otherwise.

\* For TJ-Pro<sup>™</sup> Rating calculation the controlling span is considered to be supported by walls.

\* Member design (strength) is based on loads shown in loading section. TJ-Pro™ Rating, if shown, is based on 1-07-03 o.c. spacing.

Supports:					Maximum Load	s to Supports	
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow
1	0":4 3/8"	1.75"	F10(i2375)	357 lb	532 lb	-	-
2	16' 0 7/8" : 16' 5 1/4"	1.75"	F8(i2368)	287 lb	532 lb	-	-

Loads:				Maximum Loads on Member				
Type	Start : End	Combine	Source	Dead	Floor Live	Roof Live	Snow	
Uniform	0" : 16' 5 1/4"	-	FC1 Floor Decking	16 lb/ft	64 lb/ft	-	-	
Uniform	2 3/8" : 16' 2 7/8"	-	FC1 Floor Decking	16 lb/ft	-	-	-	
Point	3' 8 7/8" : -	-	NB7(i2514)	122 lb	-	-	-	

#### Errors, Warnings, & Notes:

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

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

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



## Member Report

Floor Container: FC1 | Label: B18' | Design Tag: i7781

1 piece(s) of 11 7/8" TJI® 110 joist

Member Type: FloorJoist | Level: 1st Floor

Product is Sufficient for Application and Loads Described

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

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

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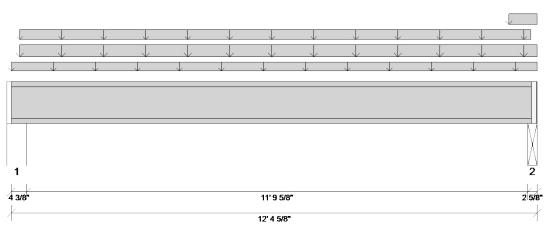


# Member Report

Floor Container: FC1 | Label: B14'-2 | Design Tag: i7766 2 piece(s) of 11 7/8" TJI® 110 joist

Member Type: Joist As Flush Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



 Building Code:
 IBC 2018
 Design Methodology:
 ASD
 Member Cut Length:
 12' 4 5/8"
 Member Drawing Not to Scale

Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	1740 lb @ 12' 3 1/2"	2277 lb (2.62")	Passed - 76%	1.00	1.0 D + 1.0 L - (0)
Shear	1674 lb @ 12' 2"	3120 lb	Passed - 54%	1.00	1.0 D + 1.0 L - (0)
Moment	5082 lb-ft @ 6' 3 1/4"	6320 lb-ft	Passed - 80%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.11" @ 6' 3 3/16"	0.30" L/480	Passed - L/999	-	1.0 D + 1.0 L - (0)
Total Load Deflection	0.29" @ 6' 3 3/16"	0.60" L/240	Passed - L/491	-	1.0 D + 1.0 L - (0)

Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 3-06-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 12-05-00 o/c based on loads applied, unless detailed otherwise.

\* Member design (strength) is based on loads shown in loading section. TJ-Pro™ Rating, if shown, is based on 1-07-03 o.c. spacing.

Supports:				Maximum Loads to Supports				
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow	
1	0":4 3/8"	1.75"	F14(i2369)	1050 lb	618 lb	-	-	
2	12' 2" : 12' 4 5/8"	1.75"	M7-3(i7815)	1086 lb	628 lb	-	29 lb	

Loads:				Maximum Loads on Member			
Type	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow
Uniform	0" : 12' 4 5/8"	-	FC1 Floor Decking	8 lb/ft	32 lb/ft	-	-
Uniform	2 3/8" : 12' 4 5/8"	-	B37(i2568)	93 lb/ft	69 lb/ft	-	-
Uniform	2 3/8" : 12' 2 7/8"	-	B37(i2568)	73 lb/ft	-	-	-
Uniform	11' 8 5/8" : 12' 4 5/8"	-	B37(i2568)	42 lb/ft	12 lb/ft	-	44 lb/ft

#### Errors, Warnings, & Notes:

\* This member was designed as a girder member due to load and/or framing conditions. TJ-Pro<sup>TM</sup> Rating, and other joist member modifiers were not used in the design of this member.

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

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

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

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



### **Member Report**

Floor Container: FC1 | Label: B14'-2 | Design Tag: i7766

2 piece(s) of 11 7/8" TJI $\!\mathbb{R}$  110 joist

Member Type: Joist As Flush Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

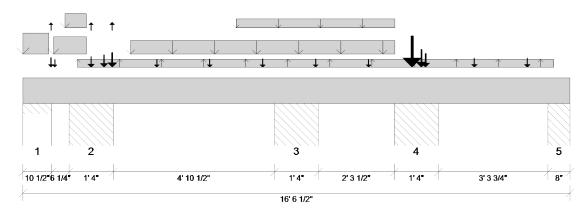




# **Member Report**

Label: M7-3 | Design Tag: i7759 3 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Design Methodology: AS	Member Cut Leng	gth: 16' 6 1/2"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	6950 lb @ 2' 7 1/4"	42328 lb (10.75")	Passed - 16%	-	1.0 D + 1.0 L - (1)
Shear	1629 lb @ 6' 10"	9227 lb	Passed - 18%	1.00	1.0 D + 1.0 L - (1)
Moment	-1598 lb-ft @ 7' 8 3/4"	16806 lb-ft	Passed - 10%	1.00	1.0 D + 1.0 L - (1)
Live Load Deflection	0.01" @ 5' 1 15/16"	0.17" L/360	Passed - L/999	-	1.0 D + 1.0 L - (1)
Total Load Deflection	0.01" @ 5' 7 13/16"	0.26" L/240	Passed - L/999	-	1.0 D + 1.0 L - (1)

### Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 16-07-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 16-07-00 o/c based on loads applied, unless detailed otherwise.

Supports:				Maximum Loads to Supports				
Support	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow	
1	0" : 10 1/2"		-	1199 lb	1139 lb	-	647 lb	
++>	3/16" : -	1.5"	F17(i2364)	48 lb	45 lb	-	26 lb	
++>	1 1/16" : -	-	F18(i2376)	238 lb	226 lb	-	128 lb	
++>	6 1/2" : -	-	PBO2(i2384)	913 lb	868 lb	-	493 lb	
2	1' 4 3/4" : 2' 8 3/4"		PBO12(i2394)	2616 / -73 lb	5812 / -66 lb	-	1196 lb	
==>	1' 6 1/4" : -	1.5"	PBO12(i2394)	-73 lb	804 / -66 lb	-	236 lb	
==>	2' 7 1/4" : -	1.77"	PBO12(i2394)	2616 lb	5008 lb	-	960 lb	
3	7' 7 1/4" : 8' 11 1/4"		PBO14(i2399)	1252 / -157 lb	3907 / -135 lb	-	37 / -93 lb	
==>	7' 8 3/4" : -	1.5"	PBO14(i2399)	1252 lb	2712 / -135 lb	-	37 lb	
==>	8' 9 3/4" : -	1.5"	PBO14(i2399)	-157 lb	1195 lb	-	-93 lb	
4	11' 2 3/4" : 12' 6 3/4"		PBO33(i2607)	7213 lb	11579 lb	-	2167 lb	
==>	11' 4 1/4" : -	1.5"	PBO33(i2607)	2693 lb	4096 lb	-	820 lb	
==>	12' 5 1/4" : -	1.5"	PBO33(i2607)	4520 lb	7483 lb	-	1347 lb	
5	15' 10 1/2" : 16' 6 1/2"	1.5"	PBO13(i2397)	140 lb	763 / -102 lb	-	-24 lb	

Loads:				Maximum Loads on Member				
Туре	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 16' 6 1/2"	-	Self Weight	13 lb/ft	-	-	-	
Uniform	0" : 9 5/16"	-	BBk1(i7811)	492 lb/ft	425 lb/ft	-	400 lb/ft	
Uniform	11 1/16" : 1' 11"	-	BBk1(i7811)	417 lb/ft	126 lb/ft	-	400 lb/ft	
Uniform	1' 3 5/16" : 1' 11"	-	BBk1(i7811)	125 lb/ft	501 lb/ft	-	-	
Uniform	1' 7 13/16" : 16' 0	-	Smoothed Load	-	-6 lb/ft	-	-	
Uniform	3' 3" : 11' 3"	-	Smoothed Load	-	559 lb/ft	-	-	

File Name: SR-291798 370 CYPRESS CHURCH REVISION DATE REVISION COMMENTS Javelin® Software 6.4.1.3

Design Engine: V8.0.0.21 Data: V7.3.2.0 3/8/2021 8:40:17 AM Page 1 of 2



### **Member Report**

Label: M7-3 | Design Tag: i7759

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

Tapered	6' 5 3/8" : 11' 3"	-	Smoothed Load	102 To 94 lb/ft	-	-	-
Point	10 3/16" : -	-	B16'(i7735)	254 lb	415 lb	-	-
Point	10 3/16" : -	-	B32'(i7753)	163 lb	465 / -44 lb	-	59 lb
Point	11 9/16" : -	-	BBk1(i7811)	6 lb	25 lb	-	-
Point	2' 0 3/4" : -	-	M2-2(i7817)	486 lb	488 / -59 lb	-	66 lb
Point	2' 5 3/8" : -	-	B16'(i7807)	456 lb	947 lb	-	200 lb
Point	2' 5 3/8" : -	-	B26'(i7741)	373 lb	771 lb	-	202 lb
Point	2' 8 3/8" : -	-	BBk1(i7811)	735 lb	1188 / -185 lb	-	482 lb
Point	4' 0 5/8" : -	-	B16'(i7802)	118 lb	-	-	-
Point	4' 0 5/8" : -	-	B26'(i7745)	107 lb	-	-	-
Point	5' 7 13/16" : -	-	B16'-2(i7624)	192 lb	-	-	-
Point	5' 7 13/16" : -	-	B26'(i7686)	129 lb	-	-	-
Point	7' 3" : -	-	B16'(i7796)	305 lb	-	-	-
Point	8' 10 3/16" : -	-	B16'-2(i7806)	292 lb	-	-	-
Point	10' 5 3/8" : -	-	B26'(i7779)	118 lb	-	-	-
Point	11' 9 1/4" : -	-	BBk1(i7811)	3192 lb	3844 lb	-	1062 lb
Point	12' 0 5/8" : -	-	B26'(i7690)	1243 lb	1807 lb	-	378 lb
Point	12' 0 5/8" : -	-	B14'(i7771)	1221 lb	1743 lb	-	374 lb
Point	12' 2 1/8" : -	-	BBk1(i7811)	818 lb	985 lb	-	272 lb
Point	13' 7 13/16" : -	-	B26'(i7797)	107 lb	440 lb	-	-
Point	13' 7 13/16" : -	-	B14'(i7763)	98 lb	391 lb	-	-
Point	15' 3" : -	-	B26'(i7692)	107 lb	440 lb	-	-
Point	15' 3" : -	-	B14'(i7630)	98 lb	391 lb	-	-

#### Errors, Warnings, & Notes:

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

- \* The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- \* Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- \* Load Duration Factors: Dead 0.90, Floor Live 1.00, Roof Live 1.25, Snow 1.15

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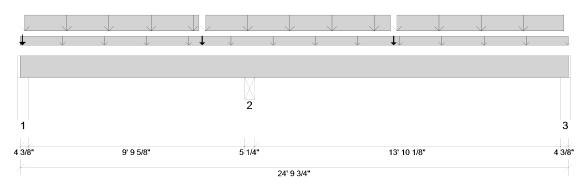




# **Member Report**

Label: M1-2 | Design Tag: i7747 2 piece(s) of 1 3/4" x 11 7/8" 2.0E Microllam® LVL Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Design Methodology: AS	Member Cut Leng	gth: 24' 9 3/4"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	5502 lb @ 10' 4 5/8"	13781 lb (5.25")	Passed - 40%	-	1.0 D + 1.0 L - (0)
Shear	2588 lb @ 11' 7 1/8"	7897 lb	Passed - 33%	1.00	1.0 D + 1.0 L - (0)
Moment	-7087 lb-ft @ 10' 4 5/8"	17848 lb-ft	Passed - 40%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.12" @ 17' 11 1/2"	0.47" L/360	Passed - L/999	-	1.0 D + 1.0 L - (0)
Total Load Deflection	0.22" @ 18' 0 15/16"	0.71" L/240	Passed - L/771	-	1.0 D + 1.0 L - (0)

#### Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 24-09-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 21-02-00 o/c based on loads applied, unless detailed otherwise.

Supports: Maximum Loads to Supports							
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow
1	0":4 3/8"	1.5"	F20(i2366)	551 lb	876 / -268 lb	-	-
2	10' 2" : 10' 7 1/4"	2.1"	M4-3(i7575)	2650 lb	2873 lb	-	-
3	24' 5 3/8" : 24' 9 3/4"	1.5"	F2(i2361)	985 lb	1151 / -70 lb	-	-

Loads:				Maximum Loads on Member				
Type	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 24' 9 3/4"	-	Self Weight	11 lb/ft	-	-	-	
Uniform	0" : 24' 9 3/4"	-	FC1 Floor Decking	8 lb/ft	32 lb/ft	-	-	
Uniform	2 3/8" : 8' 1 1/8"	-	B15(i2322)	151 lb/ft	157 lb/ft	-	-	
Uniform	8' 4 5/8" : 16' 9 1/8"	-	B43(i2869)	151 lb/ft	157 lb/ft	-	-	
Uniform	17' 0 5/8" : 24' 7 3/8"	-	B42(i2868)	151 lb/ft	157 lb/ft	-	-	
Point	1 3/16" : -	-	E3(i2304)	33 lb	31 lb	-	-	
Point	8' 2 7/8" : -	-	B39(i2570)	32 lb	-	-	-	
Point	16' 10 7/8" : -	-	B38(i2571)	32 lb	-	-	-	

#### Errors, Warnings, & Notes:

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

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



## **Member Report**

Label: M1-2 | Design Tag: i7747

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

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

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

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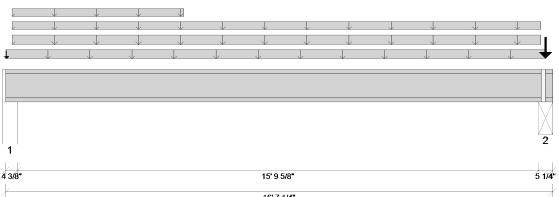


# **Member Report**

Floor Container: FC1 | Label: B18'-2 | Design Tag: i7728

2 piece(s) of 11 7/8" TJI® 110 joist Member Type: Joist As Flush Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



16' 7 1/4"

Building Code: IBC 2018	Design Methodology: ASI	Member Cut Leng	gth: 16' 7 1/4"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result	<u>LDF</u>	Load Combination - (Load Group)
Critical Reaction	1245 lb @ 16' 3 1/2"	2750 lb (3.5")	Passed - 45%	1.00	1.0 D + 1.0 L - (0)
Shear	962 lb @ 4 3/8"	3120 lb	Passed - 31%	1.00	1.0 D + 1.0 L - (0)
Moment	3894 lb-ft @ 8' 2 15/16"	6320 lb-ft	Passed - 62%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.10" @ 8' 3 3/16"	0.40" L/480	Passed - L/999	-	1.0 D + 1.0 L - (0)
Total Load Deflection	0.37" @ 8' 3 1/8"	0.80" L/240	Passed - L/516	-	1.0 D + 1.0 L - (0)

**Design Notes:** 

\* Top Edge Bracing (Lu): Top compression edge must be braced at 4-00-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 16-07-00 o/c based on loads applied, unless detailed otherwise.

\* Member design (strength) is based on loads shown in loading section. TJ-Pro™ Rating, if shown, is based on 1-07-03 o.c. spacing.

Supports:				Maximum Loads to Supports			
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow
1	0":4 3/8"	1.75"	F10(i2375)	686 lb	269 lb	-	-
2	16' 2" : 16' 7 1/4"	1.75"	M6-3(i7994)	785 lb	414 lb	-	22 lb

Loads:				Maximum Loads on Member			
Type	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow
Uniform	0" : 16' 4 5/8"	-	FC1 Floor Decking	8 To 8 lb/ft	32 To 32 lb/ft	-	-
Uniform	2 3/8" : 16' 2 7/8"	-	NB10(i2518)	73 lb/ft	-	-	-
Uniform	2 3/8" : 16' 2 7/8"	-	FC1 Floor Decking	2 lb/ft	-	-	-
Uniform	2 3/8" : 5' 4 7/8"	-	FC1 Floor Decking	3 lb/ft	-	-	-
Point	5/16" : -	-	FC1 Floor Decking	-	1 lb	-	-
Point	16' 4 5/8" : -	-	B5(i2312)	116 lb	156 lb	-	22 lb

#### Errors, Warnings, & Notes:

\* This member was designed as a girder member due to load and/or framing conditions. TJ-Pro<sup>TM</sup> Rating, and other joist member modifiers were not used in the design of this member.

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

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

File Name: SR-291798 370 CYPRESS CHURCH **REVISION DATE REVISION COMMENTS** 



**Member Report** 

Floor Container: FC1 | Label: B18'-2 | Design Tag: i7728

**Design Passed** 

### 2 piece(s) of 11 7/8" TJI® 110 joist

Member Type: Joist As Flush Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

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

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

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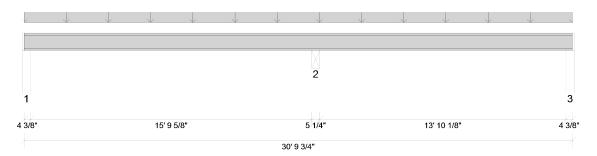


## Member Report

Floor Container: FC1 | Label: B32' | Design Tag: i7614 **1 piece(s) of 11 7/8" TJI® 110 joist** Member Type: FloorJoist | Level: 1st Floor

ember Type. FloorJoist | Level. Tst Floo

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Design Methodology: ASD	Member Cut Leng	jth: 30' 9 3/4"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	1518 lb @ 16' 4 5/8"	2350 lb (5.25")	Passed - 65%	1.00	1.0 D + 1.0 L - (0)
Shear	731 lb @ 16' 2"	1716 lb	Passed - 43%	1.00	1.0 D + 1.0 L - (0)
Moment	-2316 lb-ft @ 16' 4 5/8"	3160 lb-ft	Passed - 73%	1.00	1.0 D + 1.0 L - (0)
Live Load Deflection	0.23" @ 7' 10 3/8"	0.40" L/480	Passed - L/842	-	1.0 D + 1.0 L - (0)
Total Load Deflection	0.27" @ 7' 9 1/4"	0.81" L/240	Passed - L/710	-	1.0 D + 1.0 L - (0)
TJ Pro Rating	35	25	Passed		

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

#### Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 4-01-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 3-08-00 o/c based on loads applied, unless detailed otherwise.

\* For TJ-Pro<sup>™</sup> Rating calculation the controlling span is considered to be supported by beams.

\* Member design (strength) is based on loads shown in loading section. TJ-Pro™ Rating, if shown, is based on 1-07-03 o.c. spacing.

Supports:				Maximum Loads to Supports				
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow	
1	0" : 4 3/8"	1.75"	F18(i2376)	106 lb	471 / -46 lb	-	-	
2	16' 2" : 16' 7 1/4"	3.5"	M4-3(i7575)	303 lb	1213 lb	-	-	
3	30' 5 3/8" : 30' 9 3/4"	1.75"	F2(i2361)	87 lb	424 / -78 lb	-	-	

Loads:				Maximum Loads on Member			
Туре	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow
Uniform	0" : 30' 9 3/4"	-	FC1 Floor Decking	16 lb/ft	64 lb/ft	-	-

#### Errors, Warnings, & Notes:

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

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

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

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



## **Member Report**

Floor Container: FC1 | Label: B32' | Design Tag: i7614

1 piece(s) of 11 7/8" TJI® 110 joist

Member Type: FloorJoist | Level: 1st Floor

Product is Sufficient for Application and Loads Described

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



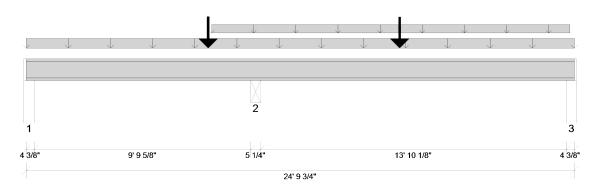


## Member Report

Floor Container: FC1 | Label: B26' | Design Tag: i7608 1 piece(s) of 11 7/8" TJI® 110 joist

Member Type: FloorJoist | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Design Methodology: ASD	Member Cut Lenç	gth: 24'93/4"	Member Drawing Not to Scale		
Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)	
Critical Reaction	2330 lb @ 10' 4 5/8"	2350 lb (5.25")	Passed - 99%	1.00	1.0 D + 1.0 L - (0)	
Shear	1088 lb @ 10' 7 1/4"	1716 lb	Passed - 63%	1.00	1.0 D + 1.0 L - (0)	
Moment	-3008 lb-ft @ 10' 4 5/8"	3160 lb-ft	Passed - 95%	1.00	1.0 D + 1.0 L - (0)	
Live Load Deflection	0.21" @ 17' 9 7/8"	0.35" L/480	Passed - L/822	-	1.0 D + 1.0 L - (0)	
Total Load Deflection	0.32" @ 17' 10 1/2"	0.71" L/240	Passed - L/525	-	1.0 D + 1.0 L - (0)	
TJ Pro Rating	43	25	Passed			

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

#### Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 3-02-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 3-01-00 o/c based on loads applied, unless detailed otherwise.

\* For TJ-Pro<sup>™</sup> Rating calculation the controlling span is considered to be supported by beams.

\* Member design (strength) is based on loads shown in loading section. TJ-Pro<sup>TM</sup> Rating, if shown, is based on 1-07-03 o.c. spacing.

Supports:				Maximum Loads to Supports				
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow	
1	0" : 4 3/8"	1.75"	F20(i2366)	30 lb	353 / -135 lb	-	-	
2	10' 2" : 10' 7 1/4"	5.16"	M4-3(i7575)	870 lb	1464 lb	-	-	
3	24' 5 3/8" : 24' 9 3/4"	1.75"	F2(i2361)	272 lb	506 / -36 lb	-	-	

Loads:				Maximum Loads on Member				
Type	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow	
Uniform	0" : 24' 9 3/4"	-	FC1 Floor Decking	16 lb/ft	64 lb/ft	-	-	
Uniform	8' 4 5/8" : 24' 7 3/8"	-	FC1 Floor Decking	16 lb/ft	-	-	-	
Point	8' 2 7/8" : -	-	B39(i2570)	257 lb	279 lb	-	-	
Point	16' 10 7/8" : -	-	B38(i2571)	255 lb	273 lb	-	-	

#### Errors, Warnings, & Notes:

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

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



### **Member Report**

Floor Container: FC1 | Label: B26' | Design Tag: i7608

1 piece(s) of 11 7/8" TJI® 110 joist

Member Type: FloorJoist | Level: 1st Floor

Product is Sufficient for Application and Loads Described

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

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

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

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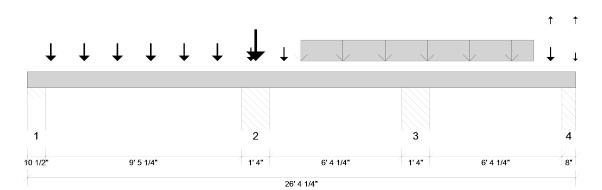




# **Member Report**

Label: M4-3 | Design Tag: i7575 3 piece(s) of 1 3/4" x 9 1/4" 2.0E Microllam® LVL Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described



Building Code: IBC 2018	Design Methodology: AS	Member Cut Leng	gth: 26' 4 1/4"	Member Drawing Not to Scale	
Design Results:	Design @ Location	Allowed	Result	LDF	Load Combination - (Load Group)
Critical Reaction	11797 lb @ 10' 5 1/4"	42328 lb (10.75")	Passed - 28%	-	1.0 D + 1.0 L - (1)
Shear	7674 lb @ 9' 6 1/2"	9227 lb	Passed - 83%	1.00	1.0 D + 1.0 L - (1)
Moment	12823 lb-ft @ 4' 4 1/8"	16806 lb-ft	Passed - 76%	1.00	1.0 D + 1.0 L - (1)
Live Load Deflection	0.23" @ 5' 4 13/16"	0.32" L/360	Passed - L/512	-	1.0 D + 1.0 L - (1)
Total Load Deflection	0.32" @ 5' 3 3/8"	0.48" L/240	Passed - L/363	-	1.0 D + 1.0 L - (1)
Vertical Load Capacity Check	0.32 @ 5 3 3/8 Passed	0.48 L/240	Passed - L/363	-	1.0 D + 1.0 L - (1)

### Design Notes:

\* Top Edge Bracing (Lu): Top compression edge must be braced at 15-11-00 o/c based on loads applied, unless detailed otherwise.

\* Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 17-00-00 o/c based on loads applied, unless detailed otherwise.

Supports:					Maximum Loads to Supports				
<u>Support</u>	Start : End	<u>Req'd Br'g</u>	Source	Dead	Floor Live	Roof Live	Snow		
1	0" : 10 1/2"		-	2416 lb	4132 / -26 lb	-	-		
++>	1 1/4" : -	1.7"	F1(i2358)	575 lb	984 / -6 lb	-	-		
++>	6 1/2" : -	-	PBO1(i2383)	1841 lb	3148 / -20 lb	-	-		
2	10' 3 3/4" : 11' 7 3/4"		PBO5(i2387)	7031 lb	17441 lb	-	-		
==>	10' 5 1/4" : -	3"	PBO5(i2387)	7031 lb	11317 lb	-	-		
==>	11' 6 1/4" : -	1.5"	PBO5(i2387)	-	6124 lb	-	-		
3	18' 0" :19' 4"		PBO15(i2400)	1346 lb	8261 lb	-	-		
==>	18' 1 1/2" : -	1.5"	PBO15(i2400)	-	3030 lb	-	-		
==>	19' 2 1/2" : -	1.5"	PBO15(i2400)	1346 lb	5231 lb	-	-		
4	25' 8 1/4" : 26' 4 1/4"	1.5"	PBO11(i2393)	631 lb	2477 / -35 lb	-	-1 lb		

Loads:				Maximum Loads on Member				
Туре	Start : End	<u>Combine</u>	Source	Dead	Floor Live	Roof Live	Snow	
Self Weight	0" : 26' 4 1/4"	-	Self Weight	13 lb/ft	-	-	-	
Uniform	13' 1 11/16" : 24' 4	-	Smoothed Load	189 lb/ft	758 lb/ft	-	-	
Point	1' 1 11/16" : -	-	B26'(i7780)	860 lb	1457 lb	-	-	
Point	2' 8 7/8" : -	-	B26'(i7608)	870 lb	1464 lb	-	-	
Point	4' 4 1/8" : -	-	B26'(i7792)	870 lb	1464 lb	-	-	
Point	5' 11 5/16" : -	-	B26'(i7805)	870 lb	1464 lb	-	-	
Point	7' 6 1/2" : -	-	B26'(i7611)	870 lb	1464 lb	-	-	
Point	9' 1 11/16" : -	-	B26'(i7765)	870 lb	1464 lb	-	-	
Point	10' 8 7/8" : -	-	B26'(i7726)	482 lb	827 lb	-	-	
Point	10' 11 3/4" : -	-	M1-2(i7747)	2650 lb	2873 lb	-	-	
Point	12' 4 1/8" : -	-	B32'(i7755)	282 lb	1129 lb	-	-	
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### **Member Report**

Label: M4-3 | Design Tag: i7575

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

Member Type: Beam | Level: 1st Floor

Product is Sufficient for Application and Loads Described

Point	25' 1 11/16" : -	-	B32'(i7753)	280 lb	1125 lb	-	-1 lb
Point	26' 4" : -	-	M2-2(i7817)	45 lb	77 / -3 lb	-	-

### Errors, Warnings, & Notes:

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

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

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

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

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