



Graphical Illustration - Not To Scale
 Member Cut Length - 11' 5 1/8"
 MemberPitch - 0/12

Design Information:

Building Code:	IRC2015	Floor Dead Load:	10.0 lb/ft ²	Roof Dead Load:	10.0 lb/ft ²	Ground Snow Load:	0.0 lb/ft ²
Design Methodology:	ASD	Floor Live Load:	40.0 lb/ft ²	Roof Live Load:	20.0 lb/ft ²		
		Unbraced Length	Top: 1'- 10 1/2"	Bottom:	8'- 11"		

Design Results:

	Location	Design	Control	Result	LDF	Load Combination
Critical Moment (Pos)	6'- 6 3/4"	9382.88 lb ft	22827.04 lb ft	Passed - 41%	1.15	D + Lr
Critical Moment (Neg)		0.00 lb ft	0.00 lb ft			
Critical Shear	2'- 1 3/16"	3663.72 lb	10196.67 lb	Passed - 36%	1.15	D + Lr
Live Load Deflection	5'- 9 5/16"	0'- 1/16"	0'- 1" (L/480)	Passed - L/999	-	0.75(L + Lr + 0.6W)
Total Load Deflection	5'- 9 7/16"	0'- 3/16"	0'- 1" (L/360)	Passed - L/693	-	D + 0.75(L + Lr + 0.6W)
Max. Reaction			Supported Mt Supporting Mt			
	1'- 5/16"	5504.65 lb	40553.17 lb 33794.30 lb	Passed - 16%	1.60	D + 0.75(L + Lr + 0.6W)
	1'- 5/16"	-1067.70 lb	40553.17 lb -	Passed - 3%	1.60	0.6D + 0.6W
	10'- 6 5/16"	4964.69 lb	35985.82 lb 29988.19 lb	Passed - 17%	1.15	D + Lr
	10'- 6 5/16"	-902.42 lb	35985.82 lb -	Passed - 3%	1.60	0.6D + 0.6W

Design Notes:

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

Loading:

Type	Start	End	Source	Maximum Load Magnitudes			
				Dead	Floor Live	Roof Live	Snow
Self Weight	0'	11'- 5 1/8"	Self Weight	9 lb/ft	-	-	-
Point	0'- 6 3/4"	0'- 6 3/4"	A2(CondA)	800.00 lb	-	899.00/-34.00 lb	-
Point	2'- 6 3/4"	2'- 6 3/4"	A2(CondA)	800.00 lb	-	899.00/-34.00 lb	-
Point	4'- 6 3/4"	4'- 6 3/4"	A2(CondA)	800.00 lb	-	899.00/-34.00 lb	-
Point	6'- 6 3/4"	6'- 6 3/4"	A2(CondB)	800.00 lb	-	899.00/-34.00 lb	-
Point	8'- 6 3/4"	8'- 6 3/4"	A2(CondA)	800.00 lb	-	899.00/-34.00 lb	-
Point	10'- 6 3/4"	10'- 6 3/4"	A2(CondA)	800.00 lb	-	899.00/-34.00 lb	-

Support Information:

Support	Start	End	Source	Maximum Analysis Reactions			
				Dead	Floor Live	Roof Live	Snow
1	0'	1'- 1 5/16"	WallAnalog	2560.65 lb	-	2821.52/-110.40 lb	-
2	10'- 5 5/16"	11'- 5 1/8"	WallAnalog	2344.46 lb	-	2621.89/-143.02 lb	-

Errors, Warnings & Notes:

- * CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.
- * The dead loads used in the design of this member were applied to the structure as projected dead loads.
- * The member graphic, dimensions, and locations shown on this report are based on the centerline of the member.
- * Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.