Member Data

Description:

Standard Load:
Dead Load: 15 PLF
Live Load: 40 PLF

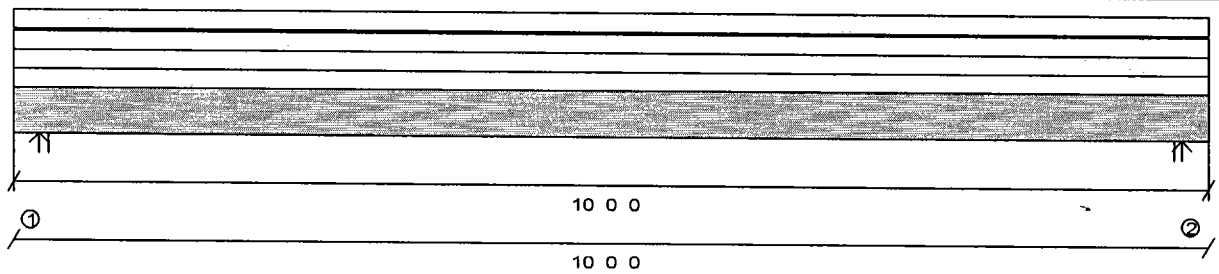
Member Type: Beam
Lateral Bracing: Continuous Both
Moisture Condition: Dry
Deflection Criteria: L/360 live, L/240 total
Deck Connection: Nailed
Filename: KYB1

Application: Floor

Building Code: IBC / IRC
0.750" max. LL
Member Weight: 10.7 PLF

Other Loads

Type (Description)	Begin	End	Trib. Width	Dead Start	End	Other Start	End	Category
Additional Uniform (PSF)	0' 0.00"	10' 0.00"	10' 0.00"	15		40		Live
Additional Uniform (PSF)	0' 0.00"	10' 0.00"	10' 0.00"	10		20		Live
Additional Uniform (PSF)	0' 0.00"	10' 0.00"	14' 0.00"	15		30		Snow
Additional Uniform (PLF)	0' 0.00"	10' 0.00"		120		0		Live



Bearings and Reactions

	Location	Type	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	3.500"	2.551"	6697#	--
2	9' 6.750"	Wall	3.500"	2.551"	6697#	--

Maximum Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Dead	Live	Snow
1	2896#	3060#	2008#
2	2896#	3060#	2008#

Design spans
9' 6.750"

Product: 3 1/2x11 7/8 West Fraser 3000F-1.8E 1 ply
Component Member Design has Passed Design Checks.**
Design assumes continuous lateral bracing for both chords.

Allowable Stress Design

	Actual	Allowable	Capacity	Location	Loading
Positive Moment	14239.'#	20589.'#	69%	4.78'	Total load D+L
Shear	4723.#	9698.#	48%	9.55'	Total load D+L
Max. Reaction	6697.#	9188.#	72%	0'	Total load D+0.75(L+S)
TL Deflection	0.2997"	0.4781"	L/382	4.78'	Total load D+0.75(L+S)
LL Deflection	0.1701"	0.3187"	L/674	4.78'	Total load 0.75(L+S)

Control: Max. Reaction
DOLs: Live=100% Snow=115% Roof=125% Wind=133%

Mike Heller
Eastern Engineered Wood Products

**Passing is defined as when the member, floor joist, beam or girder, shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet. The design must be reviewed by a qualified designer or design professional as required for approval. This design assumes product installation according to the manufacturer's specifications.