

LAM-Floor Max Span Chart - Roof Application

b = 1.25 in **Nominal 2x12**
 d = 10.25 in

C_D = 1.15 Load Duration Factor
 C_{fu} = 1.2 Flat Use Factor

F_v' = 155 psi
 F_b' = 1725 psi

Deflection Limits (L/)
 L_{live} = 240
 T_{total} = 180

ASCE 7-10 Snow

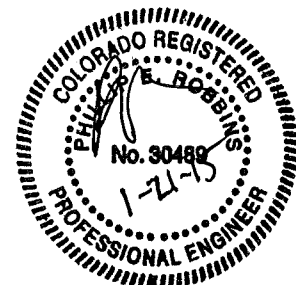
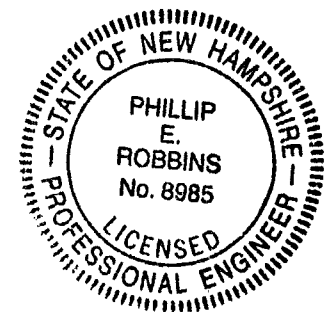
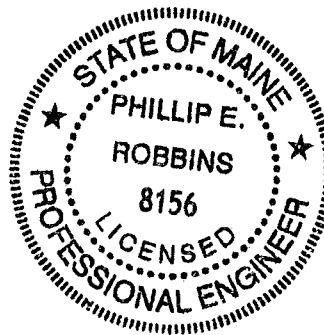
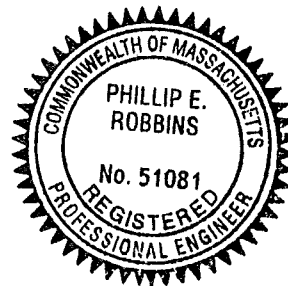
C_t = 1.1 psf Thermal Factor
 C_e = 1.0 psf Exposure Factor
 I_s = 1.0 psf Snow Importance Factor

Load (psf)			Maximum Distance between Supports	
P _g	Dead	P _f	Simple	Multiple
30	10	23.1	6' - 3"	8' - 5"
35	10	26.95	6' - 0"	8' - 1"
40	10	30.8	5' - 10"	7' - 10"
45	10	34.65	5' - 7"	7' - 6"
60	10	46.2	5' - 1"	6' - 10"
65	10	50.05	4' - 11"	6' - 8"
70	10	53.9	4' - 10"	6' - 6"
75	10	57.75	4' - 9"	6' - 4"
80	10	61.6	4' - 7"	6' - 2"
85	10	65.45	4' - 6"	6' - 1"
90	10	69.3	4' - 5"	5' - 11"
95	10	73.15	4' - 4"	5' - 10"
100	10	77	4' - 3"	5' - 9"
110	10	84.7	4' - 2"	5' - 7"
120	10	92.4	4' - 0"	5' - 5"

Where P_g is Design Ground Snow Load

Design Values (psi)					
F _b	F _t	F _v	F _{cp}	F _c	E
1250	1300	135	425	1600	1500000

Job: PER15084



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