

MARTHA'S BARN | EXTERIOR VIEW



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REFERENCE BASIS OF DESIGN

DESIGN IN ACCORDANCE WITH IBC 2015

DESIGN DEAD LOADS

1. ROOF - 16 PSF (10 PSF TOP CHORD AND 8 PSF BOTTOM CHORD)
2. FLOOR - 15 PSF

DESIGN LIVE LOADS

1. SLAB-ON-GRADE - 100 PSF
2. ALLOWABLE LIVE LOAD DEFLECTION $L/480$

ROOF AND SNOW LOAD:

1. GROUND SNOW LOAD $P_g = 60$ PSF
2. SNOW EXPOSURE FACTOR $C_e = 1.0$
3. SNOW IMPORTANCE FACTOR $I_s = 1.0$
4. THERMAL FACTOR $C_t = 1.0$
5. FLAT ROOF SNOW LOAD $P_f = 40$ PSF
6. ALLOWABLE SNOW/LIVE LOAD DEFLECTION $L/240$ - MAX $3/4"$
7. HORIZONTAL DEFLECTION AT SUPPORTS SHALL BE LIMITED TO $1/4"$



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