



Snow Load Report

1. Roof and Building Data

Ground Snow Load (Pg): 60.0 psf
Roof Pitch: 12 /12
Risk Category: II
Eave-to-Ridge (W): 12.84 ft.
Terrain Category: D
Exposure: Partially Exposed
Thermal Factor (Ct): 1.00
Roof Surface: Asphalt Shingles
Roof System: Rafter
Spacing: 19.2 in. o/c
Overhang: 8 in.

2. Design Loads

Top Chord Dead Load: 10 psf
Bottom Chord Dead Load: 10 psf
SF (Slope Factor) = $1/\text{Cosine}(\Phi) = 1.41$ (Dead loads specified on a projected horizontal basis take into account the effect of the pitch via a slope factor.)
Adj. TCDL (TCDL x SF): 14.1 psf

3. Design Assumptions

Code Standard: ASCE 7-10
Number of Plies: 1 PLY
Bottom Chord Pitch: 0 /12

4. Snow Load Calculations

Calculate flat roof snow load pf using the following equation:

$$p_f = 0.7C_eC_tI_s p_g$$

where:

p_f = Flat Roof Snow Load in psf
 $C_e = 0.90$ = Exposure Factor, as determined by ASCE 7-10 Table 7-2 (Terrain Cat. D, Exp. Partially Exposed)
 $C_t = 1.00$ = Thermal Factor, as determined by ASCE 7-10 Table 7-3
 $I_s = 1.00$ = Importance Factor, as determined by ASCE 7-10 Table 1.5-2 (Risk Cat. II)
 $p_g = 60.0$ psf = Ground Snow Load in psf

$$p_f = 0.7C_eC_tI_s p_g = 0.7(0.90)(1.00)(1.00)(60.0) = 37.8 \text{ psf}$$

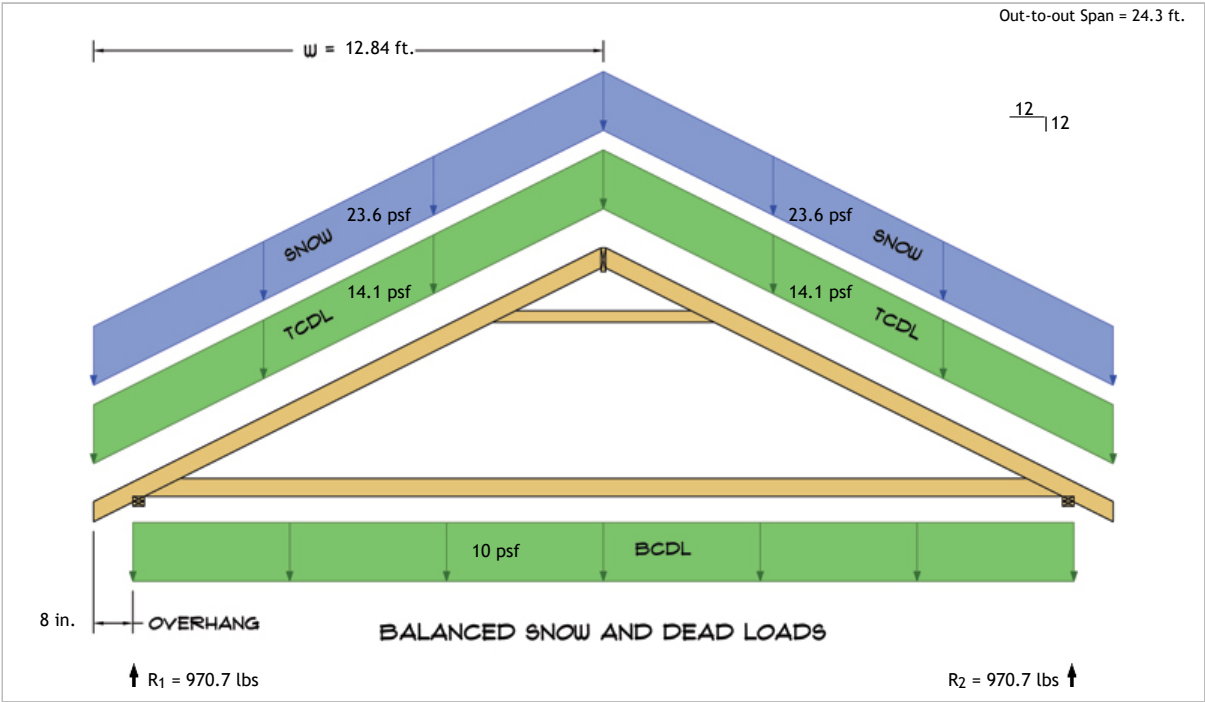
Subject Snow Loads	Customer	Location	Job No. East Main Roof
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Roof slope is greater than 7 on 12 or less than 1/2 on 12, unbalanced snow loads are not required to be applied.

On warm roofs apply a distributed 2p_f snow load on all overhanging portions as per ASCE 7-10 section 7.4.5. No other loads except dead loads shall be present on the roof when this uniformly distributed load is applied.

2p_f = (2)(37.8) = 75.6 psf

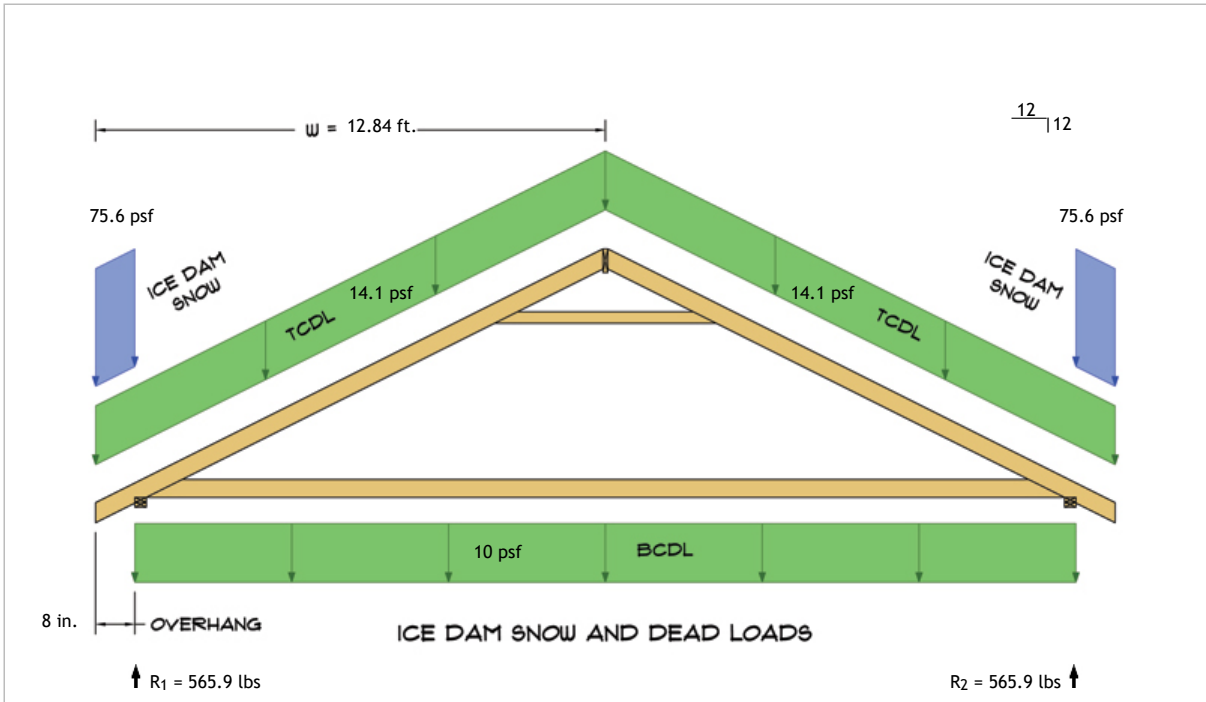


R₁ = D + S = 485.3 lbs + 485.4 lbs
R₂ = D + S = 485.3 lbs + 485.4 lbs

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$R_1 = D + S = 485.3 \text{ lbs} + 80.6 \text{ lbs}$
 $R_2 = D + S = 485.3 \text{ lbs} + 80.6 \text{ lbs}$

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