Building Pressure Calculator Report

Generated by BuildingPressureCalculator.py February 2, 2024

1 Introduction

This report presents the results of the building pressure calculations.

2 Parameters

- Exposure: C
- Flexible: no
- Enclosure: enclosed
- Eave Height: 15 ft
- Building Width: 10 ft
- Building Length: 10 ft
- Basic Wind Speed (mph): 105 mph
- Velocity Pressure Coefficient (K_h) : 0.849
- Topographic Factor (K_{zt}) :
- Wind Directionality Factor (K_d) : 0.85
- Ground Elevation Factor (K_e) : 1.0
- Velocity Pressure (q_h) : 20.37 psf

3 Building Dimensions Building Building

4 Results

 $\bullet\,$ Net Windward Pressure: 10.18 psf

 $\bullet\,$ Net Leeward Pressure: -15.78 psf

 $\bullet\,$ Net Sidewall Pressure: -12.32 psf