

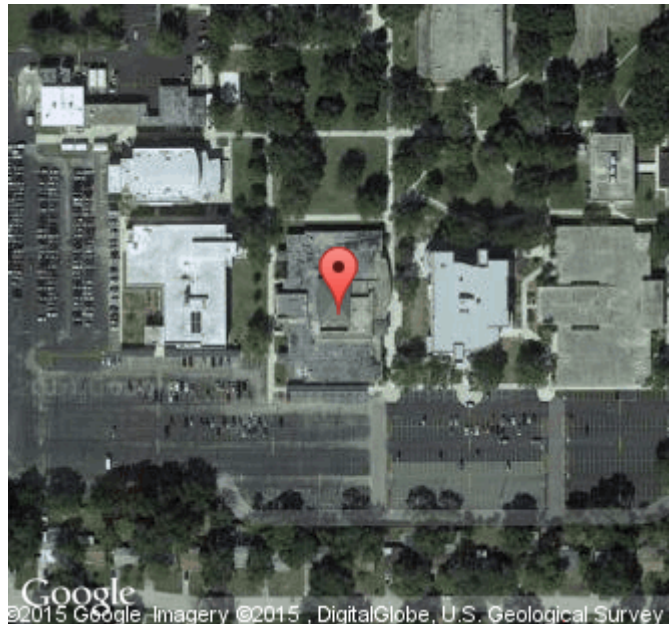
Based on Chapter 30 (Sections 1 and 3) of the American Society of Civil Engineers (ASCE)
 Standard ASCE 7-10, *Minimum Design Loads for Buildings and Other Structures*.

Report Preparation

Report ID: DL_Uplift_Pressure_Report_794
 Date: 02/13/2015
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 Company: Duro-Last

Project Location Information

Project: SPC Clearwater Campus
 Roof Area: LA Building
 Street: 2465 Drew Street
 City, State: Clearwater, FL
 Lat/Lng: 27.96514 N / -82.73610 E
 Exposure Category: C
 Risk Category: II
 Enclosure Category: Partial
 Special Wind Region: No
 Basic Wind Speed (V): 150 mph



Roof Information

Roof Height: 12 ft
 Roof Dimensions: 260 ft x 168 ft
 Construction: Overlay
 Deck Type: Tectum
 Fastener Type: Auger Fastener
 Pullout Resistance: 300 lb.

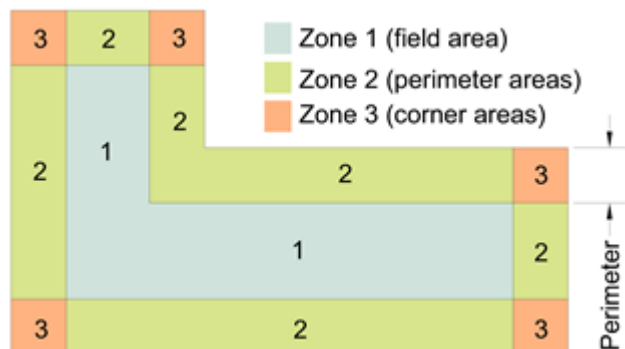
Velocity Pressure (Qh)

$$Q_h = 0.00256 * K_z * K_{zt} * K_d * V^2 \text{ [lb/ft}^2\text{]}$$

Velocity Pressure Coefficient (Kz): 0.849
 Topographic Factor (Kzt): 1
 Wind Directionality Factor (Kd): 0.85
 Velocity Pressure (Qh): 41.56 lb/ft²

Zone Coefficients

Internal Pressure Coefficient (GCpi): 0.55
 External Pressure Coefficient (GCp) Zone 1: -1
 External Pressure Coefficient (GCp) Zone 2: -1.8
 External Pressure Coefficient (GCp) Zone 3: -2.8



Zone Velocity Pressures (zVP)

- For Allowable Stress Design (ASD)

$$zVP = 0.6 * Q_h * (GC_p - GC_{pi}) \text{ [lb/ft}^2\text{]}$$

Zone 1:	-38.65 lb/ft ²
Zone 2:	-58.6 lb/ft ²
Zone 3:	-83.54 lb/ft ²