

Job name Inland #341
Job# 0322APG
Sign company: Apogee Signs
Installation location: 4047 SW SR 47, Lake City, FL 32055

Section 3107 and 1609 of Florida Building Code 2020 and Chapter 30 ASCE 7-16 applies.
Application of wind pressures using the alternative all heights method for components and cladding

Type of structure: new EMC sign cabinet fastened to existing sign poles

Occupancy Category: II

Wind velocity (3 sec gust), FBC 2020, section 1609.3: 120 mph

Wind pressure (qz) 36.9 psf

Net Pressure Coefficient (Cnet) from Figure 30.7-2
Components and cladding not in areas of discontinuity - walls and parapets -1.09
Wind Pressure -40.2 psf

Wind load applied between wall and structure, pulling structure away from wall
Load carried by tension in fasteners connecting structure to wall

- maximum height of structure to be attached	3.75 ft
- maximum width of structure to be attached	8.04 ft
- fill factor	1.00
- projected area of each component to be attached	30.2 ft^2
- wind load	-1213 lbs
- design limit tension load per fastener to	200 lbs
- even number of fasteners minimum of 2 =	-8
- number of fasteners practically required due to structure shape	8
- weight of structure is approximately	181 lbs
- design limit shear load per fastener to	100 lbs
- average shear load per fastener =	22.6 lbs

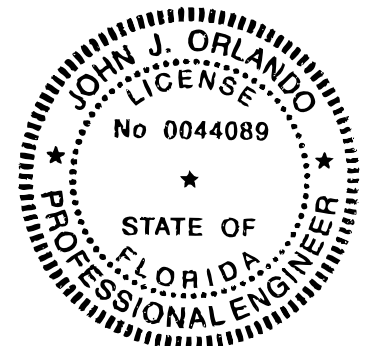
Mounting surface construction is: 8.00 x 6.00 HSS steel pylon

Method - 5/16" Drill-Flex screws
http://anchors.dewalt.com/anchors/documents/uploads/elco_drilflex_a_manual.pdf?1589229775

References:
ASCE 7-16
The 7th Edition (2020) of the Florida Building Code

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