



JENETOPULOS GROUP

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MecaWind v2526 per FBC 2023 WORST CASE

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Date : 5/5/2025
Company Name : Jenetopulos Group, : George Jenetopulos
: Florida Firm #F000145 : Florida Architect #14185
Description : Antorcha Residence
: 7634 SW 102nd Street : 5740 SW 96 Street
: Pinecrest, FL 33156 (305) 6632991 : Pinecrest, Florida 33156

Basic Wind Parameters

Wind Load Standard = FBC 2023 Exposure Category = C
Ultimate Wind Design Speed = 175.0 mph Risk Category = II
Structure Type = Building Building Type = Enclosed

General Wind Settings

ASD = Include ASD Load Factor of 0.6 in Pressures = True
DynType = Dynamic Type of Structure = Rigid

Building:

Roof = Roof Type = Hipped Encl = Enclosure Classification = Enclosed
Help = Help Building Roof Type = Help Pitch = Pitch of Roof = 3.0 :12
θ = Slope of Roof = 14.04 Deg Ret = Ridge Height = 22.750 ft
Est = Eave Height = 10.000 ft W = Building Width = 87.000 ft
L = Building Length = 96.000 ft OH = Type of Overhang = All Overhang
Par = Parapet = None HTover = Override Mean Roof Height = False
Htman = Mean Roof Height = 16.375 ft RAover = Override Roof Area = False
GCpio = Override GCpi value = False IsElev = Building is Elevated = False

Exposure Constants [T:26.11-1]:

α = 3-s Gust-speed exponent = 9.800 Zg = Nominal Ht of Boundary Layer = 2460.000 ft
â = Reciprocal of α = 0.102 b = 3 sec gust speed factor = 1.000
αm = Mean hourly Wind-Speed Exponent = 0.156 bm = Mean hourly Windspeed Exponent = 0.660
c = Turbulence Intensity Factor = 0.200 ε = Integral Length Scale Exponent = 0.2000

Components and Cladding (C&C) Wind Loads per Ch 30 Pt 1 Roof & Wall

FBC 2023 refers to ASCE 7-22 for these calculations.

h = Mean structure height = 16.375 ft Fh = 2.41 • (Z/Zg)^{2/α} = 0.867
Kzt = No Topographic Feature = 1.000 Kd = Directionality Factor T:26.6-1 = 0.85
GCpi = ± Internal Press Coef T:26.13-1 = 0.18 LF = ASD Load Factor = 0.60
Ke = Ground Elev Factor T:26.10-1 = 1.000 qh = .00256 • Kz • Kzt • Ke • V² • LE:26.10-1 = 40.76 psf
θ = Slope of Roof = 14.04 ° a1 = Min(0.1 • B, 0.4 • h) = 6.550 ft
a = Max(a1, 0.04 • B, 3 ft [0.9 m]) = 6.550 ft

Wind Pressures for C&C per Ch 30 Part 1

All wind pressures include a load factor of 0.6

Width of Pressure Coefficient Zone "a" = 6.55 ft

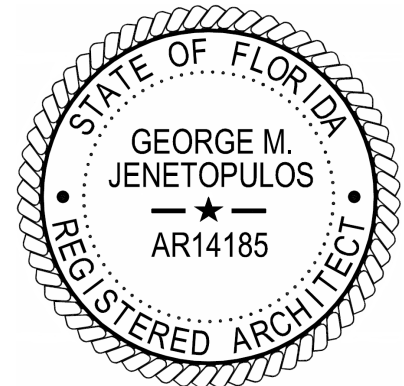
Description	Zone	Width ft	Span ft	Area sq ft	1/3 Rule	Ref Fig	GCp Max	GCp Min	p-Max psf	p-Min psf
Worst Case Int	4	3.000	3.000	9.00	No	30.3-1	1.000	-1.100	40.90	-44.40
Worst Case End	5	3.000	3.000	9.00	No	30.3-1	1.000	-1.400	40.90	-54.80

GCpd=Down (+) External Coefficient; GCpu=Uplift (-) External Coefficient; Pdown=qh•[GCpd-GCpi] [E:30.3-1];
Puplin=qh•[GCpu-GCpi] [E:30.3-1]; +Press=Pressure Acting Toward Surface; -Press=Pressure Acting Away from
Surface; §30.2.2=C&C Min Pressure = 9.60 psf; Zone=Applicable Zone per Figure; Width=of Component; Span=
of Component; Area=Span • Width; 1/3 Rule=Width limited to Span/3; GCpi=Internal Coef T:26.13-1;
Reference=Applicable Reference from Standard

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WINDOW/DOOR REPLACEMENT/INSTALLATION SITE SPECIFIC PRESSURES:

Pressures are worst case scenario for this home. New Windows/Doors being installed; OR being removed and replaced per attached information by contractor in regard to: Exact locations, product selection, NOA's, dimensions. All installations per Manufacturers approved NOA's. Egress requirements per code, Contractor and inspector to verify rooms requiring second means of egress are in compliance.