460 Ena Rd. Honolulu, Hawaii, USA 96815
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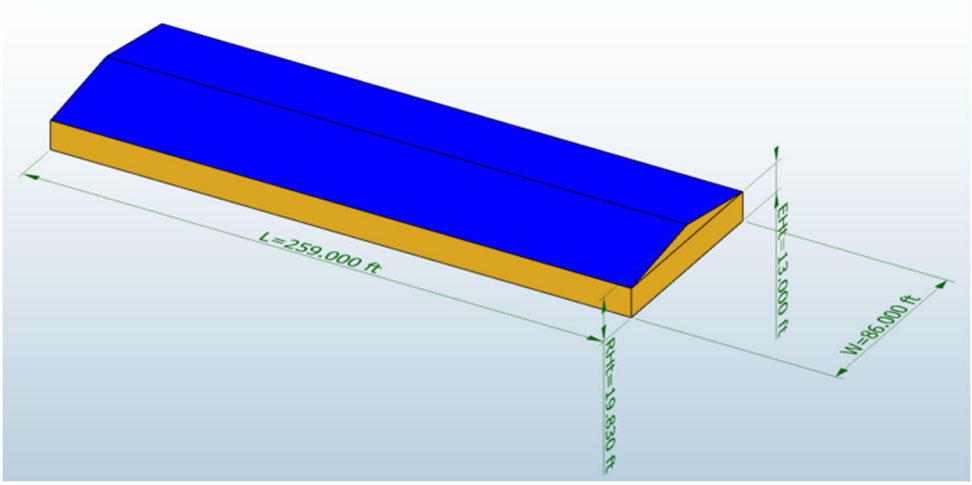
WIND LOAD ANALYSIS



MecaWind v2547

Calculations Prepared by:
PAMECO Hawaii
460 Ena Rd.
Honolulu, HI, 96815
Date: Mar 25, 2026
Designer: Ivy

Calculations Prepared For:
Client: Pameco Client
Project #: WL001
Location: Honolulu, Hawaii

General:

Reference Abbreviations: T: Table, F: Figure, E: Equation, §: Section, ¶: Paragraph

Wind Load Standard	= ASCE 7-16	Basic Wind Speed	= 210.0 mph
Exposure Classification	= C	Risk Category	= III
Structure Type	= Building	Basis for Wind Pressures	= ASD
MWFRS Analysis Method	= Ch 27 Pt 1	C&C Analysis Method	= Ch 30 Pt 1
Dynamic Type of Structure	= Rigid	Advanced Options	= 1
Simple Diaphragm Building	= 0	Base Reactions Output Type	= None
Altitude above Sea Level	= 0.000 ft	Base Elevation Of Structure	= 0.0000 ft
MWFRS Pressure Elevations	= Mean Ht	Topographic Effects	= None
Override Directionality Factor	= 0	Override Gust Factor	= 0
Override Minimum Pressure	= 0		

Building:

Roof = Roof Type	= Gabled	Encl = Enclosure Classification	= Enclosed
IsCust = Custom Roof	= False	W = Building Width	= 86.0000 ft
L = Building Length	= 259.0000 ft	R_{Ht} = Ridge Height	= 19.830 ft
E_{Ht} = Eave Height	= 13.000 ft	Pitch = Pitch of Roof	= 1.91 :12
θ = Slope of Roof	= 9.03 °	OH = Overhang Configuration	= All None
Par = Parapet	= None	z_l = Highest Opening Elevation	= 0.0000 ft
HT_{over} = Override Mean Roof Height	= False	Ht_{man} = Mean Roof Height	= 13.000 ft
RA_{over} = Override Roof Area	= False	GC_{pi_o} = Override GC_{pi} value	= False

Exposure Constants T:26.11-1:

α = 3-s Gust-speed exponent T:26.11-1	= 9.500	z_g = Nominal Bounary Layer Ht T:26.11-1	= 900.0000 ft
â = Reciprocal of α T:26.11-1	= 0.105	b = 3 sec gust speed factor T:26.11-1	= 1.000
α_m = Mean Hourly Exponent T:26.11-1	= 0.154	b_m = Mean Hourly Factor T:26.11-1	= 0.650
c = Turbulence Intensity T:26.11-1	= 0.200	ε = Integral Length Exponent T:26.11-1	= 0.2000

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

h = Mean structure height	= 13.000 ft	$K_h = 2.01 \cdot (15/z_g)^{2/\alpha}$ T:26.10-1	= 0.849
K_{zt} = No Topographic Feature	= 1.000	K_d = Directionality Factor T:26.6-1	= 0.85
GC_{pi} = ± Internal Press Coef T:26.13-1	= ±0.18	LF = ASD Load Factor	= 0.60
K_e = Ground Elev Factor T:26.9-1	= 1.000	$q_h = .00256 \cdot K_h \cdot K_{zt} \cdot K_d \cdot K_e \cdot V^2 \cdot LF$ E:26.10-1	= 48.88 psf
θ = Slope of Roof	= 9.03 °	a_1 = Min(0.1•B, 0.4•h)	= 5.200 ft
a = Max(a_1, 0.04•B, 3 ft [0.9 m])	= 5.200 ft		

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C&C Wind Roof & Wall Detailed per Ch 30 Pt 1
All wind pressures include a Load Factor (LF) of 0.6

Description	Zone	Width ft	Span ft	Area ft^2	1/3 Rule	Reference	a ft	GC_{pi}	GC_{pd}	GC_{pu}	P_{max} psf	P_{min} psf
10 SQFT	4	2.0000	5.0000	10.00	No	F:30.3-1*	5.2	±0.18	0.90	-0.99	52.79	-57.19
20 SQFT	4	4.0000	5.0000	20.00	No	F:30.3-1*	5.2	±0.18	0.85	-0.94	50.45	-54.85
30 SQFT	4	5.0000	6.0000	30.00	No	F:30.3-1*	5.2	±0.18	0.82	-0.91	49.08	-53.48
40 SQFT	4	5.0000	8.0000	40.00	No	F:30.3-1*	5.2	±0.18	0.80	-0.89	48.11	-52.51
50 SQFT	4	5.0000	10.0000	50.00	No	F:30.3-1*	5.2	±0.18	0.79	-0.88	47.36	-51.76
60 SQFT	4	6.0000	10.0000	60.00	No	F:30.3-1*	5.2	±0.18	0.78	-0.87	46.74	-51.14
70 SQFT	4	7.0000	10.0000	70.00	No	F:30.3-1*	5.2	±0.18	0.77	-0.86	46.22	-50.62
80 SQFT	4	8.0000	10.0000	80.00	No	F:30.3-1*	5.2	±0.18	0.76	-0.85	45.77	-50.17
90 SQFT	4	9.0000	10.0000	90.00	No	F:30.3-1*	5.2	±0.18	0.75	-0.84	45.37	-49.77
100 SQFT	4	10.0000	10.0000	100.00	No	F:30.3-1*	5.2	±0.18	0.74	-0.83	45.02	-49.42
10 SQFT	5	2.0000	5.0000	10.00	No	F:30.3-1*	5.2	±0.18	0.90	-1.26	52.79	-70.38
20 SQFT	5	4.0000	5.0000	20.00	No	F:30.3-1*	5.2	±0.18	0.85	-1.16	50.45	-65.71
30 SQFT	5	5.0000	6.0000	30.00	No	F:30.3-1*	5.2	±0.18	0.82	-1.11	49.08	-62.97
40 SQFT	5	5.0000	8.0000	40.00	No	F:30.3-1*	5.2	±0.18	0.80	-1.07	48.11	-61.03
50 SQFT	5	5.0000	10.0000	50.00	No	F:30.3-1*	5.2	±0.18	0.79	-1.04	47.36	-59.52
60 SQFT	5	6.0000	10.0000	60.00	No	F:30.3-1*	5.2	±0.18	0.78	-1.01	46.74	-58.29
70 SQFT	5	7.0000	10.0000	70.00	No	F:30.3-1*	5.2	±0.18	0.77	-0.99	46.22	-57.25
80 SQFT	5	8.0000	10.0000	80.00	No	F:30.3-1*	5.2	±0.18	0.76	-0.97	45.77	-56.35
90 SQFT	5	9.0000	10.0000	90.00	No	F:30.3-1*	5.2	±0.18	0.75	-0.96	45.37	-55.56
100 SQFT	5	10.0000	10.0000	100.00	No	F:30.3-1*	5.2	±0.18	0.74	-0.94	45.02	-54.85

GC_{pd} = Down (+) External Coefficient
P_{max} = q_h*[GC_{pd}-GC_{pi}] [E:30.3-1]
+Press = Pressure Acting Toward Surface
§30.2.2 = C&C Min Pressure = 9.60 psf
Width = Width of Component
Area = Span * Width
a = Max[Min(.1*B,.4*h),.04*B,3] F:30.3-1
Reference = Applicable Reference from Standard

GC_{pu} = Uplift (-) External Coefficient
P_{min} = q_h*[GC_{pu}-GC_{pi}] [E:30.3-1]
-Press = Pressure Acting Away from Surface
Zone = Applicable Zone per Figure
Span = Span of Component
1/3 Rule = Width limited to Span/3
GC_{pi} = Internal Coef F:26.13-1
F:30.3-1 = *Since θ≤10°: Zone 4 & 5 GC_p reduced 10%