

Project :
 Subject :
 Location :

File :
 Date : 3/24/2008
 Eng. :

Simplified Procedure - Main Wind Force Resisting System

Design Wind Pressure Components (ASCE 7-05)

Building Height	= 60.00 ft	
Roof Angle	= 25.00 deg.	
Basic Wind Speed	= 90.00 mph	(Figure 6-1)
Category	= I	(Table 1-1)
Importance Factor (I)	= 0.87	(Table 6-1)
Exposure Category	= C	(Open terrain)
Enclosure Category	= Enclosed Buildings	(Constant value)
Kzt	= Topographic factor obtained from Fig. 6-4 = $(1 + K1 \cdot K2 \cdot K3)^2$ = 1.00	

Design Wind Pressure, p, Figure 6-2 - Load Case 1

Design wind pressures and forces are determined by Figure 6-2

Location	Ps30 (psf)	I	Adjustment Factor	Ending P (psf)
Zone A	16.10	0.87	1.62	22.69
Zone B	2.60	0.87	1.62	10.00
Zone C	11.70	0.87	1.62	16.49
Zone D	2.70	0.87	1.62	10.00
Zone E	-7.20	0.87	1.62	-10.15
Zone F	-9.80	0.87	1.62	-13.81
Zone G	-5.20	0.87	1.62	-10.00
Zone H	-7.80	0.87	1.62	-10.99
Eoh	-13.30	0.87	1.62	-18.75
Goh	-11.40	0.87	1.62	-16.07