

Wind Pressure Calculations

Height	Wind	Basic Wind	Importance	Velocity
Factor	Factor	Factor	Factor	Factor
1.0	1.0	1.0	1.0	100

Calculation of K_e
 $K_e = 2.01 (z/33)^{0.63} = 0.847$

Elevation
 25.16000

SECTION 1				SECTION 2				SECTION 3			
Drag	Wind	Wind	Wind	Drag	Wind	Wind	Wind	Max	Min	Max	Min
Coeff	Pressure	Pressure	Pressure	Coeff	Pressure	Pressure	Pressure	Value	Value	Value	Value
1.19	24.61	24.61	24.61	1.19	24.61	24.61	24.61	39	1.56	78	39

SIGN 1		SIGN 2		SIGN 3	
Drag	Wind	Drag	Wind	Drag	Wind
Coeff	Pressure	Coeff	Pressure	Coeff	Pressure
1.19	24.61	1.19	24.61	1.19	24.61

INTERPOLATE SIGN 1		INTERPOLATE SIGN 2		INTERPOLATE SIGN 3	
LW*	LW	LW*	LW	LW*	LW
Cd*	Cd	Cd*	Cd	Cd*	Cd
1.19	1.90	1.19	1.90	1.19	1.90

LEFT SIDE		RIGHT SIDE	
Drag	Wind	Drag	Wind
Coeff	Pressure	Coeff	Pressure
1.19	24.61	1.19	24.61

INTERPOLATE SIGN 1		INTERPOLATE SIGN 2		INTERPOLATE SIGN 3	
LW*	LW	LW*	LW	LW*	LW
Cd*	Cd	Cd*	Cd	Cd*	Cd
1.19	1.90	1.19	1.90	1.19	1.90

WEIGHTED AVG (Used for G _{net})	
Pressure	Wind
20.77	20.77
20.40	20.40
20.40	20.40
20.40	20.40
20.40	20.40
20.40	20.40

DRAG COEFFICIENT FOR VERTICAL POSTS			
Min	Max	Min	Max
Value	Value	Value	Value
1.19	1.90	1.19	1.90
39	78	39	78
78	156	78	156