







Roof	Effective	C_N												
Angle	Wind Area		Clear Wind Flow						Obstructed Wind Flow					
θ		Zor	ne 3	Zone 2		Zone 1		Zone 3		Zone 2		Zone 1		
0,	$\leq a^2$	2.4	-3.3	1.8	-1.7	1.2	-1.1	1	-3.6	0.8	-1.8	0.5	-1.2	
	$> a^2, \le 4.0a^2$	1.8	-1.7	1.8	-1.7	1.2	-1.1	0.8	-1.8	0.8	-1.8	0.5	-1.2	
	> 4.0a ²	1.2	-1.1	1.2	-1.1	1.2	-1.1	0.5	-1.2	0.5	-1.2	0.5	-1.2	
7.5°	$\leq a^2$	2.4	-3.3	1.8	-1.7	1.2	-1.1	1	-4.8	0.8	-2.4	0.5	-1.6	
	$> a^2, \le 4.0a^2$	1.8	-1.7	1.8	-1.7	1.2	-1.1	0.8	-2.4	0.8	-2.4	0.5	-1.6	
	> 4.0a ²	1.2	-1.1	1.2	-1.1	1.2	-1.1	0.5	-1.6	0.5	-1.6	0.5	-1.6	
15°	$\leq a^2$	2.2	-2.2	1.7	-1.7	1.1	-1.1	1	-2.4	0.8	-1.8	0.5	-1.2	
	$> a^2, \le 4.0a^2$	1.7	-1.7	1.7	-1.7	1.1	-1.1	0.8	-1.8	0.8	-1.8	0.5	-1.2	
	> 4.0a ²	1.1	-1.1	1.1	-1.1	1.1	-1.1	0.5	-1.2	0.5	-1.2	0.5	-1.2	
30°	$\leq a^2$	1.8	-2.6	1.4	-2	0.9	-1.3	1	-2.8	0.8	-2.1	0.5	-1.4	
	$> a^2, \le 4.0a^2$	1.4	-2	1.4	-2	0.9	-1.3	0.8	-2.1	0.8	-2.1	0.5	-1.4	
	> 4.0a ²	0.9	-1.3	0.9	-1.3	0.9	-1.3	0.5	-1.4	0.5	-1.4	0.5	-1.4	
45°	$\leq a^2$	1.6	-2.2	1.2	-1.7	0.8	-1.1	1	-2.4	0.8	-1.8	0.5	-1.2	
	$> a^2, \le 4.0a^2$	1.2	-1.7	1.2	-1.7	0.8	-1.1	0.8	-1.8	0.8	-1.8	0.5	-1.2	
	> 4.0a ²	0.8	-1.1	0.8	-1.1	0.8	-1.1	0.5	-1.2	0.5	-1.2	0.5	-1.2	

Notes:

- 1. C_N denotes net pressures (contributions from top and bottom surfaces).
- Clear wind flow denotes relatively unobstructed wind flow with blockage less than or equal to 50%.
 Obstructed wind flow denotes objects below roof inhibiting wind flow (>50% blockage).
- 3. For values of θ other than those shown, linear interpolation is permitted.
- 4. Plus and minus signs signify pressures acting towards and away from the top roof surface, respectively.
- 5. Components and cladding elements shall be designed for positive and negative pressure coefficients shown.
- 6. Notation:
 - a : 10% of least horizontal dimension or 0.4h, whichever is smaller but not less than 4% of least horizontal dimension or 3 ft. (0.9 m). Dimension "a" is as shown in Fig. 30.8-1.
 - h: mean roof height, ft. (m)
 - L : horizontal dimension of building, measured in along wind direction, ft. (m)
 - θ : angle of plane of roof from horizontal, degrees