Other Structures		All Heights
Figure 29.5-1	Force Coefficients, C_f	**Chimneys, Tanks, Rooftop Equipment, & Similar Structures**

Cross-Section	Type of Surface	h/D		
		1	7	25
Square (wind normal to face)	All	1.3	1.4	2.0
Square (wind along diagonal)	All	1.0	1.1	1.5
Hexagonal or octagonal	All	1.0	1.2	1.4
Round $(D\sqrt{q_z} > 2.5)$ $(D\sqrt{q_z} > 5.3, D \text{ in m}, q_z \text{ in N/m}^2)$	Moderately smooth	0.5	0.6	0.7
	Rough (D'/D = 0.02)	0.7	0.8	0.9
	Very rough (D'/D = 0.08)	0.8	1.0	1.2
Round $(D\sqrt{q_z} \le 2.5)$ $(D\sqrt{q_z} \le 5.3, D \text{ in m}, q_z \text{ in N/m}^2)$	All	0.7	0.8	1.2

Notes:

1. The design wind force shall be calculated based on the area of the structure projected on a plane normal to the wind direction. The force shall be assumed to act parallel to the wind direction.
2. Linear interpolation is permitted for *h/D* values other than shown.
3. Notation:

   D: diameter of circular cross-section and least horizontal dimension of square, hexagonal or octagonal cross-sections at elevation under consideration, in feet (meters);

   D′: depth of protruding elements such as ribs and spoilers, in feet (meters); and

   h: height of structure, in feet (meters); and

   q_z: velocity pressure evaluated at height z above ground, in pounds per square foot (N/m^2).
4. For rooftop equipment on buildings with a mean roof height of $h \le 60$ ft, use Section 29.5.1.