

Wind Code

Building Code: ASCE 7-10		
Elevation of base above grade	0.98 ft (0.30 m)	
Increase effective outer diameter by	7.88 ft (2.40 m)	
Wind Force Coefficient, C_f	0.7500	
Risk Category (Table 1.5-1)	III	
Basic Wind Speed, V	149.13 mph (240.0000 km/h)	
Exposure Category	C	
Wind Directionality Factor, K_d	0.9500	
Top Deflection Limit	5.00 mm per m.	
Topographic Factor, K_{zt}	1.0000	
Enforce min. loading of 0.77 kPa	Yes	
Hazardous, toxic, or explosive contents	No	
Vessel Characteristics		
Height, h	233.7977 ft (71.2618 m)	
Minimum Diameter, b	Operating, Corroded	19.7001 ft (6.0046 m)
	Empty, Corroded	19.7001 ft (6.0046 m)
	Hydrotest, New, Field	19.7001 ft (6.0046 m)
	Hydrotest, Corroded, Field	19.7001 ft (6.0046 m)
Fundamental Frequency, n_1	Operating, Corroded	0.6917 Hz
	Empty, Corroded	0.7574 Hz
	Hydrotest, New, Field	0.4186 Hz
	Hydrotest, Corroded, Field	0.4057 Hz
Damping coefficient, β	Operating, Corroded	0.0260
	Empty, Corroded	0.0210
	Hydrotest, New, Field	0.0260
	Hydrotest, Corroded, Field	0.0260

[Table Lookup Values](#)