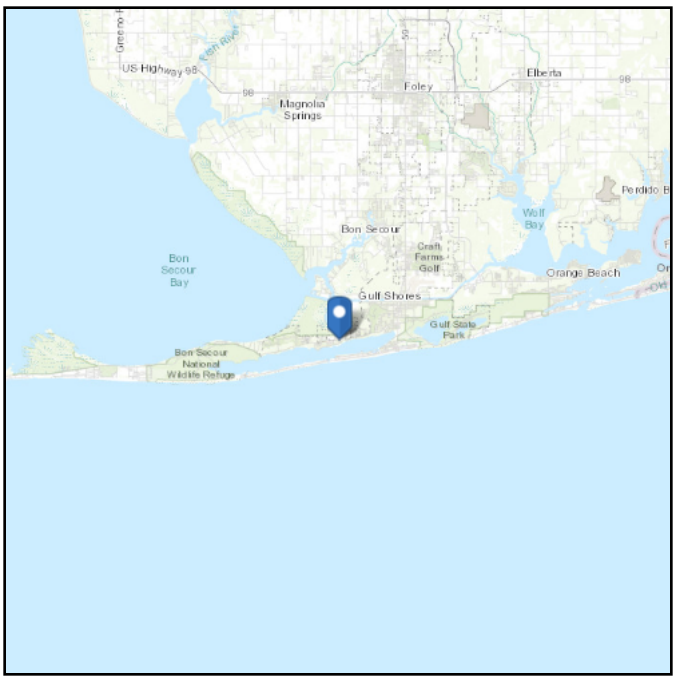
ASCE Hazards Report

Address:
17263 Fort Morgan Rd
Gulf Shores, Alabama
36542

Standard: ASCE/SEI 7-22
Risk Category: III
Soil Class: Default

Latitude: 30.254424
Longitude: -87.730613
Elevation: 12.14974077921164 ft (NAVD 88)



Wind

Results:

Wind Speed	174 Vmph
10-year MRI	80 Vmph
25-year MRI	99 Vmph
50-year MRI	110 Vmph
100-year MRI	129 Vmph
300-year MRI	145 Vmph
700-year MRI	158 Vmph
1,700-year MRI	174 Vmph
3,000-year MRI	180 Vmph
10,000-year MRI	194 Vmph
100,000-year MRI	226 Vmph
1,000,000-year MRI	254 Vmph

Data Source: ASCE/SEI 7-22, Fig. 26.5-1C and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Sat Nov 15 2025

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-22 Standard. Wind speeds correspond to approximately a 3% probability of exceedance in 50 years (annual exceedance probability = 0.000588, MRI = 1,700 years). Values for 10-year MRI, 25-year MRI, 50-year MRI and 100-year MRI are Service Level wind speeds, all other wind speeds are Ultimate wind speeds.

Site is in a hurricane-prone region as defined in ASCE/SEI 7-22 Section 26.2. Glazed openings shall be protected against wind-borne debris as specified in Section 26.12.3.

Tornado

Results:

	RC = III (MRI = 1,700 years)	MRI = 10,000 years	MRI = 100,000 years	MRI = 1,000,000 years	MRI = 10,000,000 years
Effective Plan Area (ft^2)	Tornado Speed (mph)	Tornado Speed (mph)	Tornado Speed (mph)	Tornado Speed (mph)	Tornado Speed (mph)
A_e = 1	V_T = 50	V_T = 97	V_T = 142	V_T = 181	V_T = 219
A_e = 2,000	V_T = 50	V_T = 100	V_T = 145	V_T = 184	V_T = 222
A_e = 10,000	V_T = 50	V_T = 104	V_T = 148	V_T = 187	V_T = 224
A_e = 40,000	V_T = 50	V_T = 108	V_T = 154	V_T = 191	V_T = 227
A_e = 100,000	V_T = 50	V_T = 114	V_T = 158	V_T = 194	V_T = 233
A_e = 250,000	V_T = 75	V_T = 121	V_T = 164	V_T = 200	V_T = 236
A_e = 1,000,000	V_T = 93	V_T = 131	V_T = 172	V_T = 208	V_T = 245
A_e = 4,000,000	V_T = 105	V_T = 142	V_T = 181	V_T = 217	V_T = 253

To select the appropriate tornado hazard map, the effective plan area, Ae, of the building, other structure, or facility, shall be determined in accordance with Section 32.5.4 and shall be rounded up to the next available mapped Ae. Alternatively, linear interpolation of tornado speed between maps using the logarithm of the effective plan area size is permitted, per Section 32.5.1.

Data Source: ASCE/SEI Standard 7-22, Figs. 32.5-1, 32.5-2, and G.2-1 through -4

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