

# WIND SPEED SCALE

Structural Engineering Reference Chart

Ref: ASCE 7-22 / IBC Standard  
Units: mph (3-sec gust)

CATEGORY	WIND SPEED (MPH)	PRESSURE (PSF)*	STRUCTURAL ENGINEERING IMPLICATIONS
<b>Light</b>	0 - 45	0 - 5.2	Negligible structural load. Standard cladding limits.
<b>Moderate</b>	46 - 75	5.3 - 14.4	Threshold for temporary bracing requirements in construction.
<b>Strong</b>	76 - 95	14.5 - 23.1	Nominal design speed for interior regions. Shingle uplift risk.
<b>Severe</b>	96 - 115	23.2 - 33.9	High-wind zone protocols. Missile impact glazing required.
<b>Extreme</b>	116 - 140	34.0 - 50.3	Hurricane-force. Specific tie-down and uplift anchors mandatory.
<b>Critical</b>	141 - 170+	50.4 - 74.1+	Enhanced building envelope integrity. Risk Category IV structures.

\*Approximate velocity pressure ( $q_z$ ) calculated at 15ft height, Exposure C. For estimation only. Consult local building codes and licensed professional engineers for site-specific calculations.