Calculation formula for wind power load of communication base station

Overview

Wind Load Calculation Wind load is calculated using the following equation: Fw = 1 2 C V · · dp · · ·A ( ) ρ λ 2 Where: • Fw = Force due to wind (lbf, N) 3 3 • ρ = Air Density (.075lb/ft , 1.22 kg/m) • Cdp = Profile Drag Coefficient (from text or experimental data) • λ = Length/Width Aspect Ratio Correction Factor • V = Wind Velocity (ft/s, m/s) • 2 2 A = Cross Sectional Area Normal to wind direction (length*width) (ft ,m) 3 Table 1.

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