

Premier ICF No. 7014

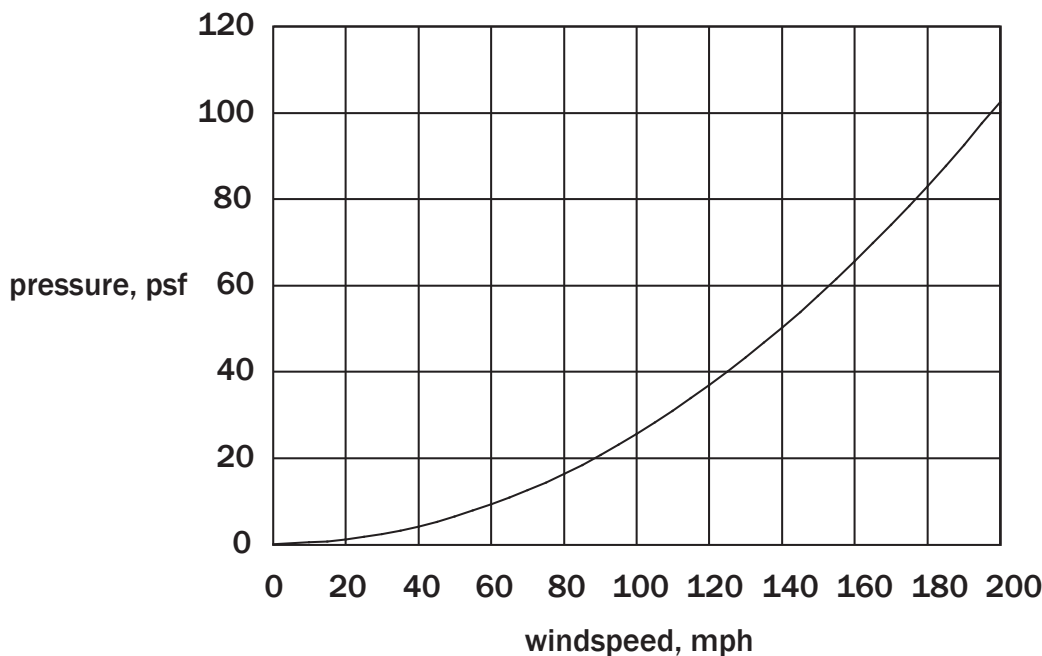
Subject: Windspeed versus Pressure - Premier ICF

Date: February 2011

Premier ICF recommends the following formula be used in order to calculate the approximate load that will be imposed on a Premier ICF formed concrete wall for a specific wind-speed:

The following formula and graph are based upon atmospheric pressure of 14.7, a temperature of 60°F and a velocity pressure based on air which is 0.0764 lbs/ft³. Actual values will vary with elevation, atmospheric conditions and geographic location. The formula for approximating velocity pressure is $p=0.00256w^2$ or the constant of 0.00256 X the windspeed squared. A qualified engineer should be consulted to ensure adequate design of the concrete wall.

WINDSPEED vs. PRESSURE



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