

Trane IntelliPak II Commercial Packaged Rooftop Units

Florida Wind Load Certification



Florida Wind Load Ratings

Hurricane emergencies will always remain a threat to Florida's commercial buildings, but being prepared for those emergencies can greatly reduce the owner's financial risks.

With field or factory-installed modifications, IntelliPak II units can safely exceed maximum wind load values of up to 150 mph, as certified by the state of Florida. A standard installation currently meets maximum wind load values of up to 120 mph (exposure category "B", and with a roof elevation above ground not exceeding 30 feet).

Wind load ratings can also be increased with a simple modification of an additional stiffener plate on the last four roof panels at each end (total of six extra plates), increasing capacity to 61 pst, which would make it suitable for use on top of buildings (see red call out box for details).

As an alternate to adding the extra plates, the amount of screws used to connect the panels may be doubled on each plate to obtain the same results. However, the IntelliPak II can safely support wind generated loads within the 175 mph wind speeds, (except exposure "D") when the unit is mounted at ground level or on a non-building dedicated support frame not exceeding 10 feet above grade.

Cabinet Construction Basic Parameters

Roof Panel Assembly (Foam-Filled)

Outside skin panel 20 gauge pre-painted G60 galvanized steel and inside panel liner 20 gauge G90 galvanized steel, attached to 14 gauge roof rail with minimum (8) #10 screws at each end. And connected side-by-side using 12 gauge plate with (5) #10 screws to each panel. End panels connect to roof rail with minimum (24) #10 screws.



IntelliPak II certified wind load ratings may be increased to the following:

- 150 mph exposure, roof line up to 25' above ground (exposure "B")
- 140 mph exposure, roof line up to 30' above ground (exposure "B")
- 130 mph exposure, roof line up to 40' above ground (exposure "B")
- 120 mph exposure, roof line up to 80' above ground (exposure "B")
- 120 mph exposure, roof line up to 30' above ground (exposure "C")

Contact a building code official for required design pressures.

Notes:

Exposure B is defined as urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions.

Exposure C is defined as open terrain with scattered obstructions including flat open ground, grasslands and shorelines in hurricane-prone regions. All of Miami-Dade and Broward Counties is Exposure C, unless meets Exposure D definition.

Exposure D is defined as being within 600 ft. of the oceanfront.

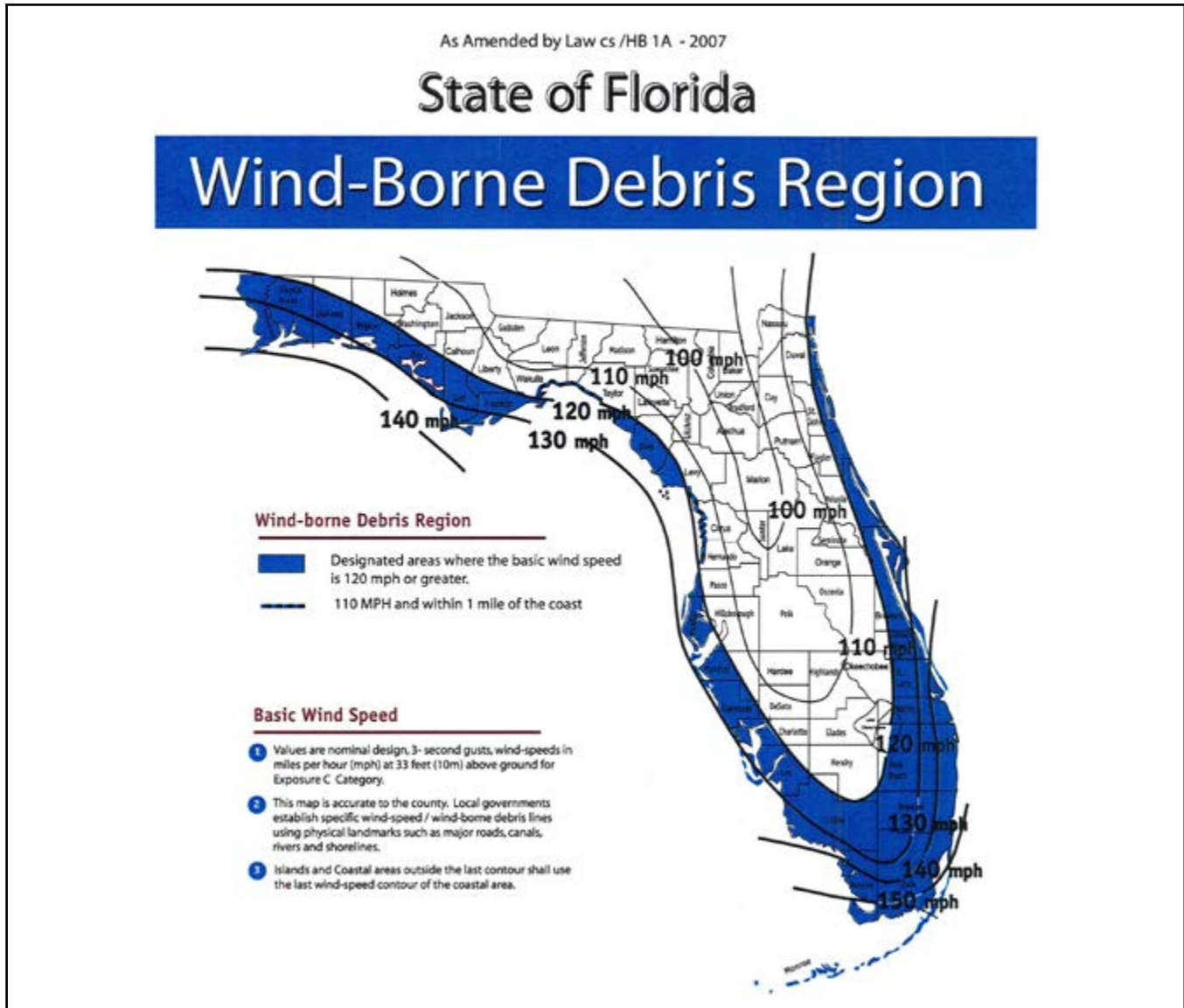
Side Panel System Vertical Support Post Assembly (Foam Filled)

Outside skin panel 18 gauge pre-painted G60 galvanized steel and inside panel liner 22 gauge G90 galvanized steel, connected to 14 gauge top rail with (2) 1/4" SAE Gr5 bolts and (2) 1/4" SDS type AB screws to the 12 gauge rail.

Side Panel System Access Panel Assembly (Foam Filled)

Outside skin panel 20 gauge pre-painted G60 galvanized steel and inside panel liner 22 gauge G90 galvanized steel connected to base rail with (3) 1/4" - 14 SDS.

For additional information, contact Product Support.



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