

Texas Department of Insurance
Windstorm Inspections Program/Engineering Services Program
Newsletter

August/September 2014

Anchorage of Rooftop AC Units

The anchorage of the rooftop AC units and equipment must resist the wind forces acting on them. Please refer to ASCE 7-05, Section 6.5.15 Design Wind Loads on Other Structures, to calculate the wind forces acting on the rooftop structures when the height is > 60 feet. The anchorage must resist the horizontal, vertical, and overturning loads resulting from the wind forces. Please do not overlook Section 6.5.15.1, Rooftop Structures and Equipment for Buildings with $h \leq 60$ ft., for the appropriate modification factor.

The rooftop structures must be anchored to the structural members of the building's roof that are capable of transferring the wind loads into the structure. You must design the load path from the rooftop structure (AC unit) to the steel frame, wood blocks, roof deck, and structure. The anchorage shall not allow for movement of the rooftop structure, supporting frame, and blocking. Please consult with the manufacturer of the roof covering system for acceptable methods of flashing and weather proofing penetrations of the roof covering. Please consult with the manufacturer of the AC unit for recommended methods to block and anchor the rooftop units. Please ensure the metal frame, connectors and fasteners comply with the corrosion resistance requirements of the 2006 Texas Revisions to the 2006 International Building Code (IBC).

Mr. Steve Thompson, P.E., joined TDI as our Chief Engineer.

You can reach Mr. Thompson at:
email Steve.Thompson@tdi.texas.gov or
phone number: 512-322-2212.

2014 By the Numbers

WPI-1s received:
22,541

WPI-2s received:
19,111

WPI-8s issued:
16,973

Number of appointed engineers:
255

As of August 1, 2014

Taking Over an Application

Please check our website for open or active applications that may affect your current inspection and, when possible, submit an Open Records Request for any related documentation. For example:

- TDI has an active application for an entire re-roof with partial re-decking from an engineer or field office, with a commencement of construction date of 2009.
- The owner asked you to inspect a current entire re-roof, commencement of construction date of 2014.
- After checking the website, you discover the active application that includes re-decking. The Open Records Request allows you to discover that there is a re-decking issue that you will need to address.

Contact TDI

Windstorm Inspections Program
windstorm@tdi.texas.gov
800-248-6032

Engineering Services Program
engineering@tdi.texas.gov
512-322-2212

www.tdi.texas.gov/wind/

Need to submit an Open Records Request?

Please send all open records requests to email: InspectionsOpenRecords@tdi.texas.gov

or

fax number: 512-490-1069

Upcoming State Holidays

August 28, 2014 – LBJ's Birthday – TDI will have limited staff

September 1, 2014 – Labor Day – TDI will be closed