

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION MEC-01

Effective Date: June 1, 2014

The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **June 2018**.

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.

Mechanical Anchorage of Rheem/RUUD Residential Condensing Units manufactured by

RHEEM Manufacturing Company
Air Conditioner Division
P.O. Box 17010
Fort Smith, Arkansas 72917-7010
(479) 646-4311

will be accepted for use in the designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this product evaluation and the referenced manufacturer's unit anchorage.

PRODUCT DESCRIPTION

The mechanical anchorage for the Rheem condensing units identified below has been reviewed and is compliant with the International Residential Code (IRC), the International Building Code, and ASCE 7-05. The analysis is based on an Exposure Category "C"; a Building Occupancy Category II, and an Importance factor of 1.00.

The Rheem/RUUD-Pad Mounted Cube condensing units include the following models:

13AJA	13AJL	13AJM	13AJN	14PJA	13PJL	16AJL
14AJA	14AJL	14AJM	14PJM	14PJL	15PJL	

The Rheem/RUUD-Pad Mounted Rectangular condensing units include the following models:

AND	APL	ARL	PNL	PPL
ANL	APM	ASL	PPB	PQL
APC	ARA	PNE	PPC	PRL

LIMITATIONS

Maximum Wind Speed: 130 mph. The condensing units may be located in the Inland II, the Inland I, and the Seaward zones.

Mounting Conditions: Anchorage is to a cast-in-place concrete pad. Anchorage to a wood platform on stilts, a wood platform located on the ground, or to a wood platform cantilevered from a structure is not within the scope of this evaluation report. Such mounting conditions shall be designed and inspected by a Texas licensed engineer that is appointed by the Texas Department of Insurance.

Concrete Pad Specifications: The cast-in-place concrete pad shall be minimum 2-1/2" thick, solid concrete, with a minimum compressive strength of 3,000 psi. The concrete pad length shall be a minimum of 4 inches greater than the length of the condensing unit. The concrete pad width shall be a minimum of 4 inches greater than the width of the condensing unit.

Fasteners: Fasteners shall be minimum 1/4 inch Tapcon screws. The Tapcon screws shall be long enough to penetrate a minimum of 1-3/4 inches into the concrete pad.

Alternative Fasteners: Equivalent fasteners may be used. The equivalent fasteners shall satisfy the following requirements:

- Minimum pullout design value: 405 lbs.
- Minimum shear design value: 420 lbs.

The minimum embedment of the equivalent fasteners into the concrete pad shall be as specified by the anchor manufacturer.

INSTALLATION

Installation: The condensing units shall be installed in accordance with one of the following design drawings:

Applicable Units 13AJA, 13AJL, 13AJN, 13AJM, 13PJA, 13PJL, 14AJA, 14AJL, 14PJL, 14PJM, 15PJL, 16AJL: Rheem Research & Development, Drawing ARD4 X16, Sheets 1 thru 2 of 2, signed and sealed by Diane M. Jakobs, P.E. on May 27, 2014.

Applicable Units AND, ANL, APC, APL, APM, ARA, ARL, ASL, PNE, PNL, PPB, PPC, PPL, PQL, PRL: Rheem Research & Development, Drawing ARD3 X11, Sheet 1 of 1, signed and sealed by Diane M. Jakobs, P.E. on May 27, 2014.

Installation Details: The condensing units shall be anchored as specified on the design drawings. Equivalent anchors may be used as specified in this evaluation report.

Note: The manufacturer's installation instructions and the design drawings shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) the International Building Code (IBC), and the Texas Revisions.