

MIAMI BEACH BUILDING DEPARTMENT



Permit Checklist for A/C - Residential Exact Change Out – OTC (No Duct work)

Plan Reviews
N/A

Inspections*

Mechanical Underground, Mechanical Rough, and Mechanical Final.

**Not all inspections listed may be required.*

PROJECTS MAY REQUIRE PLANNING BOARD APPROVAL PRIOR TO BUILDING PERMIT SUBMITTAL.

For the Planning Department Checklist, visit: www.tinyurl.com/64sdj66m

For Online Permitting Resources, visit: www.tinyurl.com/2552jdam

Required Construction Documents for Submittal: Digitally or electronically signed and sealed drawings – (Visit the Online Permitting Resource Center link noted above for instructions).

Construction Documents	Department Review
<input type="checkbox"/> N/A	

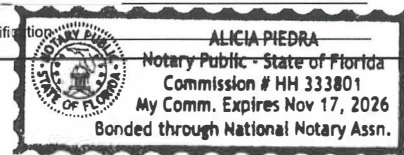
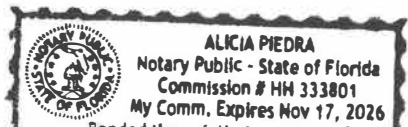
** Site Plan must show setbacks, both existing and proposed structures, property lines, lot dimensions, and grade elevation as per survey. It must also include all proposed structures such as fences/walls, accessory buildings, pool, decks, walkways, mechanical equipment, etc. as may be required for scope.*

****Review of construction documents may require additional departments*

Supporting Documents that May be Required:

Construction Documents	Department Review
<input type="checkbox"/> Completed Change Out Form	Permit Intake
<input type="checkbox"/> Equipment A.H.R.I specifications	Mechanical
<input type="checkbox"/> Product Approval/NOA	Mechanical

Applicant Information (Blue or Black Ink Only)
Office Use Only
Submittal Date:
Permit #:
Property Address: 1718 Marseilles Avenue
Unit #: 3
Parcel/Eolio Number: 03-8563-356-0852
Florida Statute 553.79 (16) regarding permit timelines. Please select one (Required):
[] Opt IN [X] Opt OUT
Permit Type (select one): [X] Mechanical
Permit Request (select all that apply): [X] New Permit
Property Information (select one): [X] Multi-Family Residential
Type of Work: New Construction/Additions
Value of Work: \$ 10,800
Area of Work (SqFt): 1850
Description of Work: A/C change out of 3 1/2 ton water source heat pump
Property Owner: John Doe
Contractor: Miami Beach Air Conditioning, LLC.
Driver's License/State Identification:
Contractor License Number: CACO68953
E-Mail Address (REQUIRED):
Notice & Certification
This application is hereby made to obtain a permit to do the work and installations as indicated. I certify that all work will be performed to meet the standards of all laws and construction regulations in this jurisdiction.
Owner's Affidavit: I certify that all the forgoing information is correct.
Lessee's Affidavit: Lessee certifies that he has full consent and authorization from owner of subject property to perform the above-mentioned work and to hire above captioned contractor.
WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT IS REQUIRED FOR ANY WORK WITH COST EXCEEDING \$2,500.00.
Signature of Owner/Agent or GC (for Sub-permits):
Signature of Qualifier:
PRINT NAME: John Doe
STATE OF Florida COUNTY OF Miami Dade
The foregoing instrument was acknowledged before me, by means of [X] physical presence or [] online notarization, this 2nd day of February, 2023 by John Doe
Signature of Notary Public:
PRINT NAME: Alicia Piedra
(SEAL) Personally known or Produced Identification Driver's License
Signature of Notary Public:
PRINT NAME: Alicia Piedra
(SEAL) Personally known or Produced Identification Co-worker



Construction Cost Affidavit

John Doe, acting as agent (owner, registered agent, or legal representative) and I (general contractor/ sub-contractor), Miami Beach Air Conditioning, LLC. do hereby attest that the construction costs indicated herein for **Permit Number** _____ at property address 1718 Marseilles Avenue, Unit 3, Miami Beach, FL 33141 are accurate for this construction project.

Note: This affidavit is only required for job values that are \$5,000 or greater.

Master Permits:

Building cost (excludes roofing, windows, doors, railings, other, and MEP): _____

Stand alone and sub-permits

Roofing \$: _____ Windows/Doors \$: _____ Railings \$: _____

Electrical \$: _____ Mechanical \$: 10,800 Plumbing \$: _____

Other \$: _____ Description: _____

Total Project Cost \$: 10,800

Under penalties of perjury, I declare that I have read the foregoing affidavit and that the facts stated in it are true.

Registered Owner/Agent or GC: John Doe Registered Contractor: Miami Beach A/C, LLC.

Signature of Owner/Agent or GC (for Sub-permits): John Doe Signature of Qualifier: _____

The foregoing instrument was acknowledged before me, by means of

physical presence or online notarization,

this 2nd day of February, 2023

by John Doe, who is personally known to me or

who has produced Driver License as identification

Notary Public, State of Florida

County of Miami-Dade

Printed Name and Signature: _____

Commission Number: GG356321

Commission Expires: 01/14/2024

The foregoing instrument was acknowledged before me, by means of

physical presence or online notarization,

this 2nd day of February, 2023

by Johnny Doe, who is personally known to me or

who has produced _____ as identification.

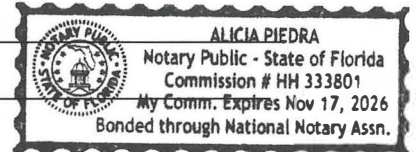
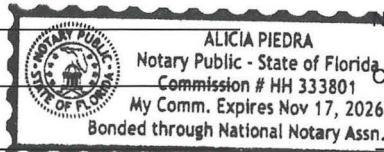
Notary Public, State of Florida

County of Miami-Dade

Printed Name and Signature: _____

Commission Number: GG356321

Commission Expires: 01/14/2024



AIR CONDITIONING CHANGE-OUT EQUIPMENT DATA

Two (2) copies of this form must accompany all air conditioning change-out permit applications.

Contractor: Miami Beach Air Conditioning, LLC. Phone #: (786) 673-7610

Site address: 1718 Marseilles Avenue Unit/Apt. #: 3 Permit #: _____

EQUIPMENT DATA	EXISTING UNIT	NEW UNIT
MANUFACTURER	First Corporate	First Corporate
PKG. UNIT MODEL #	CC 15IBC	KU 15LJK6UH
AUH/COIL MODEL #	N/A	N/A
CONDENSER MODEL #	N/A	N/A
HEATER KW	No Heat	No Heat
SYSTEM SIZE (TONS)	3 1/2 Ton	3 1/2 Ton
SEER/EER	N/A	N/A

A.H.R.I. Reference Number: _____ ARI (Cooling Water)
 Equipment Tie-down details: Signed and Sealed original Engineer anchoring details, or current Notice of Acceptance (NOA), or State Product Approval.

Note: Mechanical permits issued for **new and exact unit change-outs** at grade or on roof-tops can prove Miami-Dade County winds resistance code compliance FBCM-301.15 by one of the followings methods:

- 1- Provide copy of the unit's current Notice of Acceptance or State Product Approval.
- 2- Manufacturer's published literature for the unit explicitly listing the wind resistance for the installation.
- 3- Signed and sealed engineering for the model covered in the permit.

Is a new roof curb/curb adapter or stand needed? (if YES, must call for roofing in progress inspection) Yes ___ No

Is new equipment being moved or relocated? Yes ___ No

Is new ductwork being installed? Yes ___ No

Is an air duct smoke detector installed? Yes ___ No

Is the existing unit in violation? Violation #: _____ Yes ___ No

CONTRACTOR'S SIGNATURE:  Date: 02/02/2023

FLORIDA STATE CERTIFICATION/REGISTRATION #: COCO9853

Important: In accordance with Florida Building Code (FBC) and City of Miami Beach Flood Ordinances, the existing equipment change outs must be elevated no lower than the lowest existing habitable floor elevation.
*****This form must be posted at the jobsite for inspection*****



**DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION
 NOTICE OF ACCEPTANCE (NOA)**

**Rheem Sales Company, Inc.
 5600 Old Greenwood Rd.
 Fort Smith, AR 72917**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserves the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Mechanical Steel and Aluminum Tie-Down Clips for Grade and Rooftop Applications

APPROVAL DOCUMENT: Drawing No. **20-28800**, titled "Wind Load Certification of Mechanical Unit Cabinetry and Steel/ Aluminum Tie-Down Clips: At Grade and Roof Mounted Applications", sheets 1 through 7 of 7, dated 5/14/2015, revised on 10/19/2020, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews and revises** NOA # **18-0719.07** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



NOA No. 20-1102.09
Expiration Date: February 25, 2026
Approval Date: March 4, 2021
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOAs

A. DRAWINGS “Submitted under NOA # 15-0903.08”

1. Drawing No. **15-2543GA** and **15-2564RE**, titled “Wind Load Certification of Mechanical Unit Cabinetry and Steel/Aluminum Tie-Down Clips: At Grade and Roof Mounted Applications”, sheets 1 through 7 of 7, dated 05/14/2015, revised on 11/20/2015, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS “Submitted under NOA # 15-0903.08”

1. Test report on Uniform Static Air Pressure Test per FBC, TAS 202-94 along with marked-up drawings and installation diagram of Rheem RA Series Mechanical Units, prepared by American Test Lab of South Florida, Test Report No. **0323.01-15**, dated 05/18/2015, signed and sealed by Stephen W. Varter, P.E.

C. CALCULATIONS “Submitted under NOA # 15-0903.08”

1. Anchorage calculation prepared by Engineering Express, dated 11/20/2015, signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENT “Submitted under NOA # 15-0903.08”

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Engineering Express, dated 08/24/2015, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 11/20/2015, signed and sealed by Frank L. Bennardo, P.E.
3. Distributor agreement dated 11/12/2015.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-1102.09
Expiration Date: February 25, 2026
Approval Date: March 4, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 18-0321.11

A. DRAWINGS

1. Drawing No. **15-2543GA** and **15-2564RE**, titled "Wind Load Certification of Mechanical Unit Cabinetry and Steel/Aluminum Free-Down Climb At Grade and Roof Mounted Applications", sheets 1 through 7 of "dated 05/14/2015, revised on 01/12/2018, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E."

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 6th Edition (2017) FBC issued by Engineering Express, dated 03/19/2018, signed and sealed by Frank L. Bennardo, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-1102.09
Expiration Date: February 25, 2026
Approval Date: March 4, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 18-0719.07

A. DRAWINGS

1. Drawing No. Drawing No. **15-2543GA** through **15-2543CB** and **15-2564RE**, titled “Wind Load Certification of Mechanical Unit Cabinets and Steel/ Aluminum Tie-Down Clips: At Grade and Roof Mounted Applications”, sheets 1 through 7 of 7, dated 05/14/2015, revised on 01/12/2016, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E. on 07/17/2018.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

2. Models removal request, dated 07/17/2018, signed and sealed by Frank L. Bennardo, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-1102.09
Expiration Date: February 25, 2026
Approval Date: March 4, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New evidence submitted

A. DRAWINGS

1. Drawing No. **20-28800**, titled “Wind Load Certification of Mechanical Unit Cabinetry and Steel/ Aluminum Tie-Down Clips: At Ground and Roof Mounted Applications”, sheets 1 through 7 of 7, dated 05/14/2015, revised on 10/19/2020, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

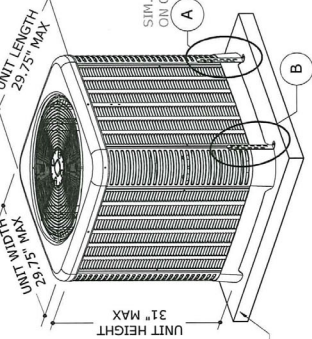
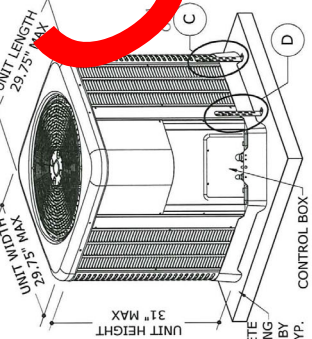
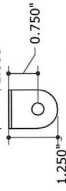
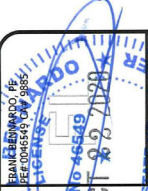
1. Statement letter of code conformance to the 7th edition (2020) FBC issued by Engineering Express, dated 10/19/2020, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 10/19/2020, signed and sealed by Frank L. Bennardo, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-1102.09
Expiration Date: February 25, 2026
Approval Date: March 4, 2021

RHEEM SALES COMPANY, INC.

WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETS AND STEEL/ALUMINUM TIE-DOWN CLIPS: AT GRADE MOUNTED APPLICATIONS

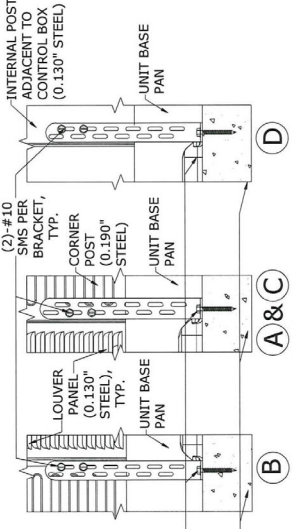


1 MECHANICAL UNIT
N.T.S.
BACK ISOMETRIC

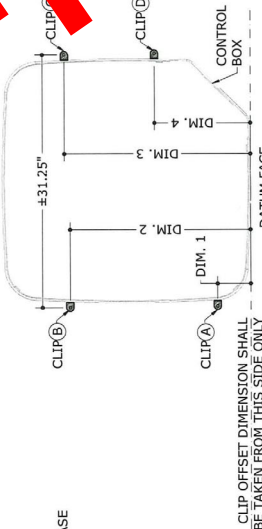
2 MECHANICAL UNIT
N.T.S.
FRONT ISOMETRIC

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-1102-09
Expiration Date 02/25/2026
By *[Signature]*
Miami-Dade Product Control

THESE ISOMETRICS ARE INTENDED FOR DIAGRAMMATICAL PURPOSES ONLY; ALTERNATE RHEEM UNITS MAY VARY IN APPEARANCE



3 TIE-DOWN BRACKETS
N.T.S.
ELEVATION



4 TIE-DOWN BRACKET LAYOUT
N.T.S.
PLAN

TIE-DOWN BRACKET OFFSETS:

DIM. 1	4.50" MAX OFFSET FROM DATUM FACE
DIM. 2	24.50" MIN OFFSET FROM DATUM FACE
DIM. 3	25.25" MIN OFFSET FROM DATUM FACE
DIM. 4	13" MAX OFFSET FROM DATUM FACE

ANCHOR SCHEDULE:

SUBSTRATE	DESCRIPTION
CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-1/4"Ø STAINLESS STEEL ITW BUILDEX TAPCON, 1 3/4" FULL EMBED TO CONCRETE, 2 1/2" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.

APPROVED DESIGN CRITERIA:

ASCE 7 VuH=17.5 MPH (V90=136 MPH), EXPOSURE CATEGORY II, AT GRADE INSTALLATION ONLY

DESIGN NOTES:
THIS SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH ASCE 7 AND THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. THE DESIGN CRITERIA CONSIDERS ASCE 7 SECTION 29 FOR "OTHER STRUCTURES - SOLID FREESTANDING WALLS" INSTALLATIONS AT GRADE. ALL DESIGN VARIABLES ARE IN ACCORDANCE WITH ASCE 7 CHAPTERS 26 & 29.

GENERAL NOTES:

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) & ASCE 7. THIS SYSTEM MAY BE USED WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. DESIGN CRITERIA IS INTENDED TO CERTIFY IMPACT RESISTANCE OF THE MECHANICAL UNIT CABINETS.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
- DESIGN & CERTIFICATION OF THE UNIT CABINETS IS APPROVED THROUGH TEST REPORT#0323.01-15 BY AMERICAN TEST LAB OF SOUTH FLORIDA. ALL DIMENSIONS AND THE MINIMUM WEIGHT (120 LB MINIMUM) OF MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC) SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
- TAPCONS REFERRED TO HEREIN SHALL BE ITW BUILDEX BRAND, ASTM F593 410 STAINLESS STEEL OR EQUIVALENT ONLY. REQUIREMENTS TO 3000 PSI MIN CONCRETE. SEE ANCHOR SCHEDULE FOR ANCHOR DETAILS. ALL SHEET METAL SCREWS USED TO FASTEN BRACKETS TO MECHANICAL UNITS SHALL BE #10 (1.4 MIN THREADS PER INCH) ASTM F593 410 STAINLESS STEEL OR EQUIVALENT ONLY. PROVIDE (5) PITCHES MINIMUM PAST THE THREAD PLANE FOR SHEET METAL SCREWS. ALL FASTENERS SHALL HAVE APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTROLYSIS.
- ALL MINIMUM ALL CONCRETE SHALL BE STRUCTURAL CONCRETE 4" MIN. THICK AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM THE DISTRICT LAR MATERIALS TO PREVENT ELECTROLYSIS.
- ELONGATIONS, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY THE CONTRACTOR.
- PROVIDE ADEQUATE PROTECTION TO ANY EXISTING STRUCTURE TO WITHSTAND OPERATIONAL AND WIND LOADS NOT INCLUDED IN THIS CERTIFICATION EXCEPT AS PROVIDED HEREIN. NO ADDITIONAL CERTIFICATIONS OR EXEMPTIONS ARE INTENDED.

- THIS SYSTEM IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFER FROM THE INFORMATION PROVIDED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONNECTION WITH THIS DOCUMENT.
- WATER TIGHTNESS OF THE MECHANICAL UNIT CONTRACTOR SHALL ENSURE WATER PENETRATION AND INSTALLATION OF STRUCTURE RESTORATION AFTER FABRICATION AND INSTALLATION OF STRUCTURE WATERPROOFING OR LEAKAGE ISSUES WHICH MAY OCCUR AS PROPOSED. THIS ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY WATER-TIGHTNESS SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR.
- FOR AN EXPLANATION OF EXPOSURE CATEGORIES THAT ACCOMPANY THE VUIT WIND SPEEDS USED IN THIS DOCUMENT, SEE SECTION 26.7 OF ASCE 7

RHEEM SALES COMPANY, INC.
1100 ABERNATHY ROAD SUITE 1400
ATLANTA, GA
(770) 351-3000
MECHANICAL UNIT
STEEL TIE-DOWN CLIPS
FLORIDA BUILDING CODE SEVENTH EDITION (2020)

ENGINEERING EXPRESS
CORPORATE OFFICE:
160 SW 12TH AVE, SUITE 106
DEERFIELD BEACH, FL 33442
(954) 354-0661 (866) 396-9999
TEAM@ENGINEERINGEXPRESS.COM
ENGINEERINGEXPRESS.COM

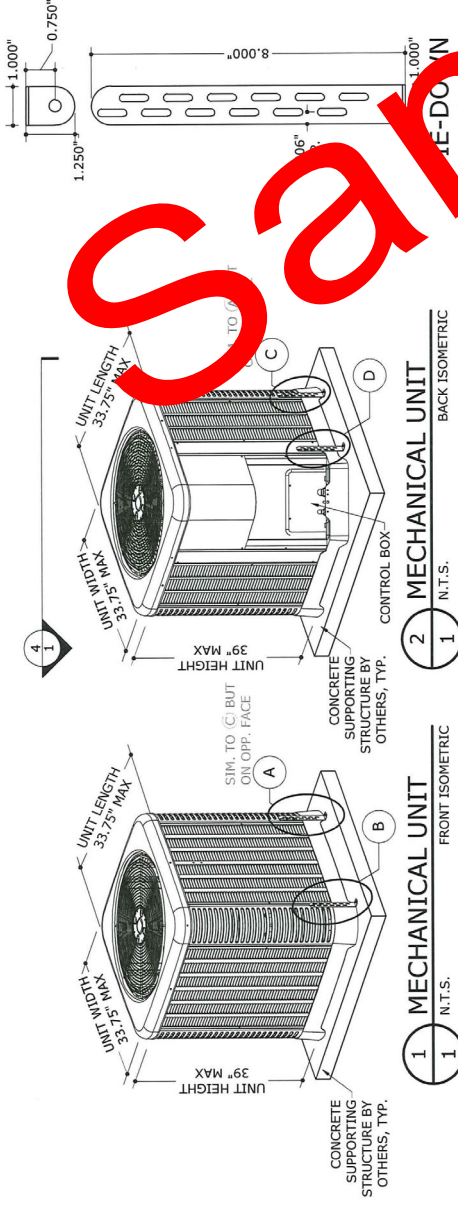
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05/14/19	LAO	10/17/20	RMM
05/14/19	LAO	10/17/20	RMM
05/14/19	LAO	10/17/20	RMM
05/14/19	LAO	10/17/20	RMM

20-28800GA
SCALE: NTS UNLESS NOTED
7



VISIT [ECALC.IO/28800](https://www.ecalc.io/28800)
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FOR ADDITIONAL PLANS, REPORTS & RESOURCES

RHEEM SALES COMPANY, INC.
WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETS AND STEEL/ALUMINUM TIE-DOWN CLIPS: AT GRADE MOUNTED APPLICATIONS

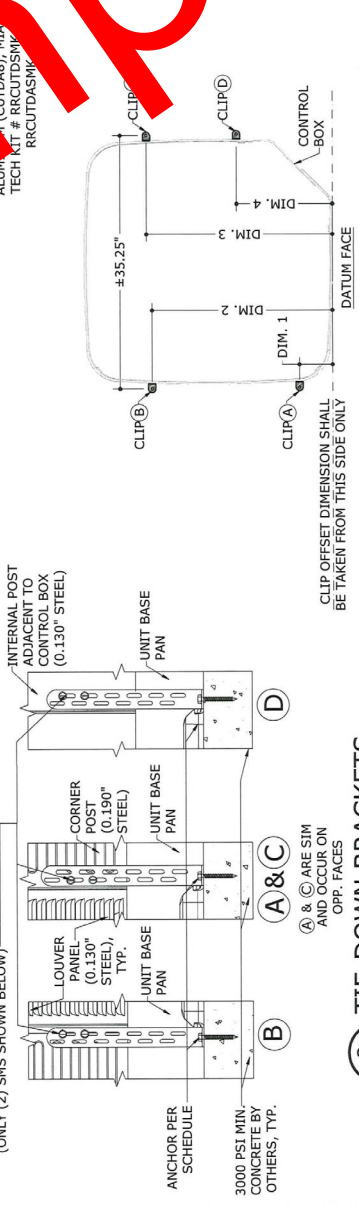


1 MECHANICAL UNIT
 1 N.T.S.

2 MECHANICAL UNIT
 1 N.T.S.

THESE ISOMETRICS ARE INTENDED FOR DIAGRAMMATICAL PURPOSES ONLY; ALTERNATE RHEEM UNITS MAY VARY IN APPEARANCE (ONLY (2) SMS SHOWN BELOW)

(2)-#10 SMS PER BRACKET FOR UNITS UP TO 35" TALL. (3)-#10 SMS PER BRACKET FOR UNITS UP TO 39" TALL



3 TIE-DOWN BRACKETS
 1 N.T.S.

4 TIE-DOWN BRACKET LAYOUT
 1 N.T.S.

TIE-DOWN BRACKET OFFSETS:

DIM. 1	4.50" MAX OFFSET FROM DATUM FACE
DIM. 2	28.00" MIN OFFSET FROM DATUM FACE
DIM. 3	29.00" MIN OFFSET FROM DATUM FACE
DIM. 4	13.00" MAX OFFSET FROM DATUM FACE

ANCHOR SCHEDULE:

SUBSTRATE	DESCRIPTION
CONCRETE: (4" THICK MIN., 3000 PSI MIN.)	(1)-1/4"Ø STAINLESS STEEL T/W BULDEX TAPCON, 1/2" FULL EMBED TO CONCRETE, 2 1/2" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.

REMARKS

DATE	05/14/19	JAC	TSB
DRWN	CHKD	LAO	FLB
		CCB	RJM
		2020 FBC	
		2017 FBC UPDATE	
		2015 FBC	

20-28800GB
 SCALE: NTS UNLESS NOTED

REHEM SALES COMPANY, INC.
 1100 ABERNATHY ROAD SUITE 1400
 ATLANTA, GA (770) 351-3000
 MECHANICAL UNIT
 STEEL TIE-DOWN CLIPS
 FLORIDA BUILDING CODE SEVENTH EDITION (2020)

ENGINEERING EXPRESS
 CORPORATE OFFICE:
 160 SW 12th AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 (954) 354-0800 | (866) 396-9999
 TEAM@ENGINEERINGEXPRESS.COM
 ENGINEERINGEXPRESS.COM

DIGITAL SIGNATURE:
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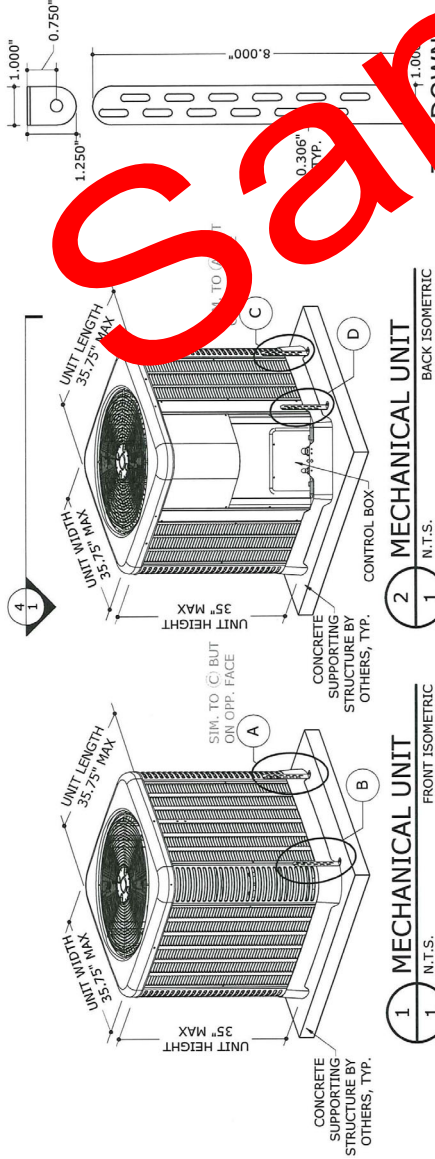
REHEM SALES COMPANY, INC.
 MIAMI TECH CENTER (KSTS) (77)
 ASTM A653 (K10) 5052-H
 (CUTDASNK) (CUTDAB), MIA
 ALUMINUM TIE-DOWN KIT # RRCUTDSMIA
 TECH KIT # RRCUTDSMIA
 RRCUTDSMIA

REMARKS:
 PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-1102.09
 Expiration Date 02/25/2026
 By *[Signature]*
 Miami-Dade Prequal Control

STATE OF FLORIDA
 No. 46685
 DATE 02/25/2020
 REF: 0046685-016-9885

RHEEM SALES COMPANY, INC.

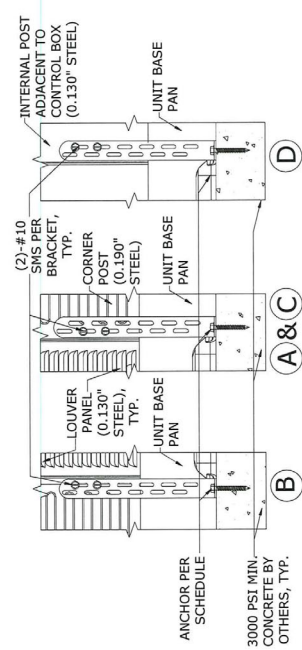
WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETS AND STEEL/ALUMINUM TIE-DOWN CLIPS: AT GRADE MOUNTED APPLICATIONS



1 MECHANICAL UNIT
1 N.T.S.
FRONT ISOMETRIC

2 MECHANICAL UNIT
1 N.T.S.
BACK ISOMETRIC

THESE ISOMETRICS ARE INTENDED FOR DIAGRAMMATICAL PURPOSES ONLY; ALTERNATE RHEEM UNITS MAY VARY IN APPEARANCE



3 TIE-DOWN BRACKETS
1 N.T.S.
ELEVATION

ANCHOR SCHEDULE:

SUBSTRATE	DESCRIPTION
CONCRETE: (4\"/>	(1)-1/4\"/>

4 TIE-DOWN BRACKET LAYOUT
1 N.T.S.
PLAN

TIE-DOWN BRACKET OFFSETS:

DIM. 1	4.50\"/>
DIM. 2	30.00\"/>
DIM. 3	31.00\"/>
DIM. 4	13.00\"/>

CLIP OFFSET DIMENSION SHALL BE TAKEN FROM THIS SIDE ONLY



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RHEEM SALES COMPANY, INC.
1100 ABERNATHY ROAD SUITE 1400
ATLANTA, GA
(770) 351-3000
MECHANICAL UNIT
STEEL TIE-DOWN CLIPS
FLORIDA BUILDING CODE SEVENTH EDITION (2020)

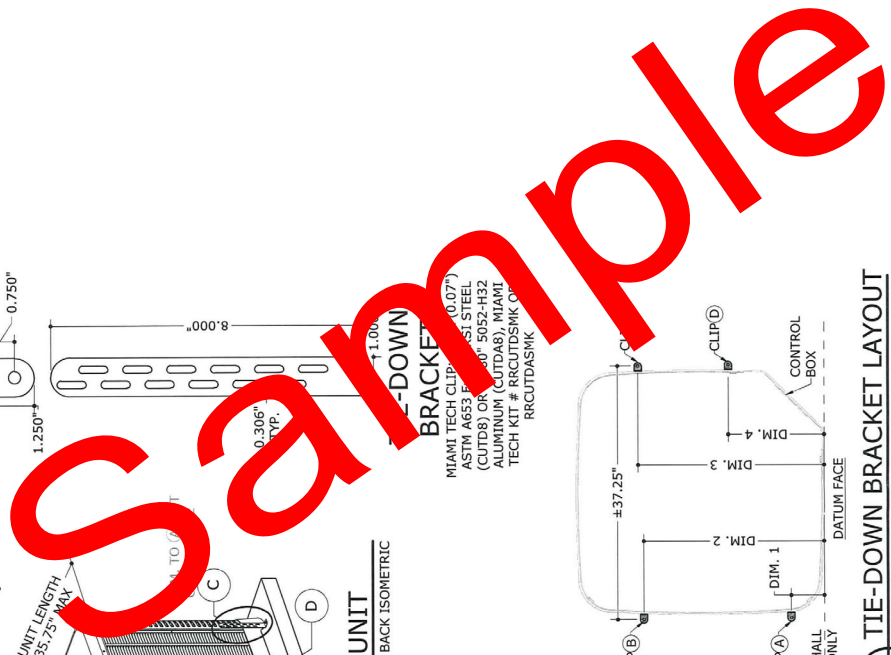
DATE	CHMD	DRWN	TSD	JAC	FLB	LAO	2020 FBC
05/14/18							
10/19/20							

20-28800GC
SCALE: NTS UNLESS NOTED

3

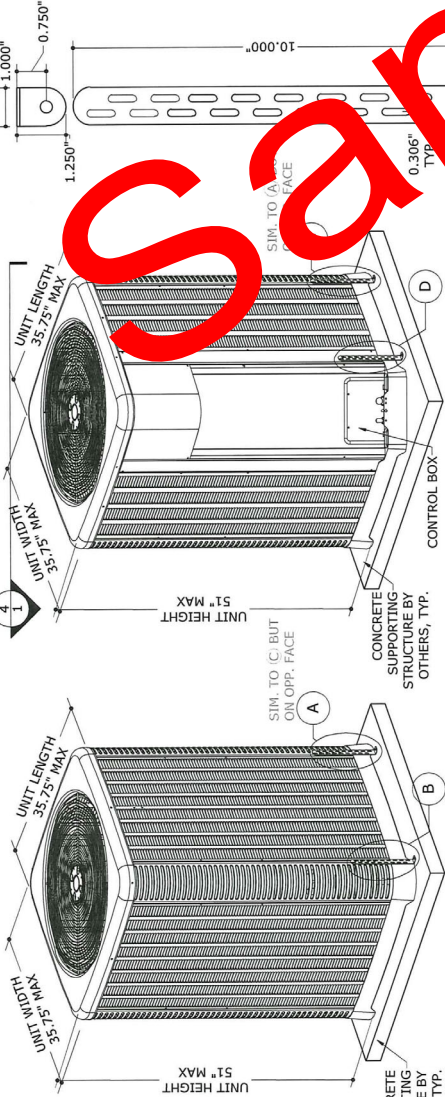
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1102.09
Expiration Date 02/25/2026

By
Miami-Dade Prerequisite Control



RHEEM SALES COMPANY, INC.

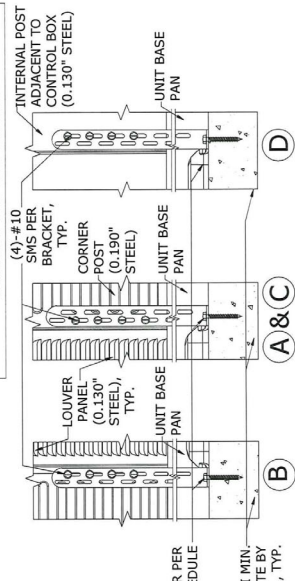
WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETS AND STEEL/ALUMINUM TIE-DOWN CLIPS: AT GRADE MOUNTED APPLICATIONS



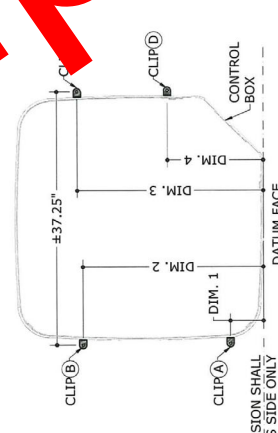
1 MECHANICAL UNIT FRONT ISOMETRIC

2 MECHANICAL UNIT BACK ISOMETRIC

THESE ISOMETRICS ARE INTENDED FOR DIAGRAMMATICAL PURPOSES ONLY; ALTERNATE RHEEM UNITS MAY VARY IN APPEARANCE



3 TIE-DOWN BRACKETS ELEVATION



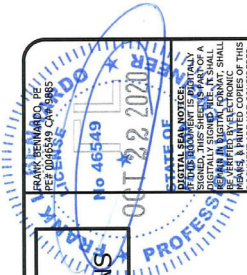
4 TIE-DOWN BRACKET LAYOUT PLAN

ANCHOR SCHEDULE:

SUBSTRATE	DESCRIPTION
CONCRETE;	(1)-1/4\"/>
(4\"/>	
3000 PSI MIN.)	(1)-1/4\"/>
SUPPORTING CONCRETE SUBSTRATE	3\"/>
ANCHOR	3\"/>
ANCHOR EMBED.	3\"/>
ANCHOR EMBED.	3\"/>

TIE-DOWN BRACKET OFFSETS:

DIM. 1	4.50\"/>
DIM. 2	30.00\"/>
DIM. 3	31.00\"/>
DIM. 4	13.00\"/>



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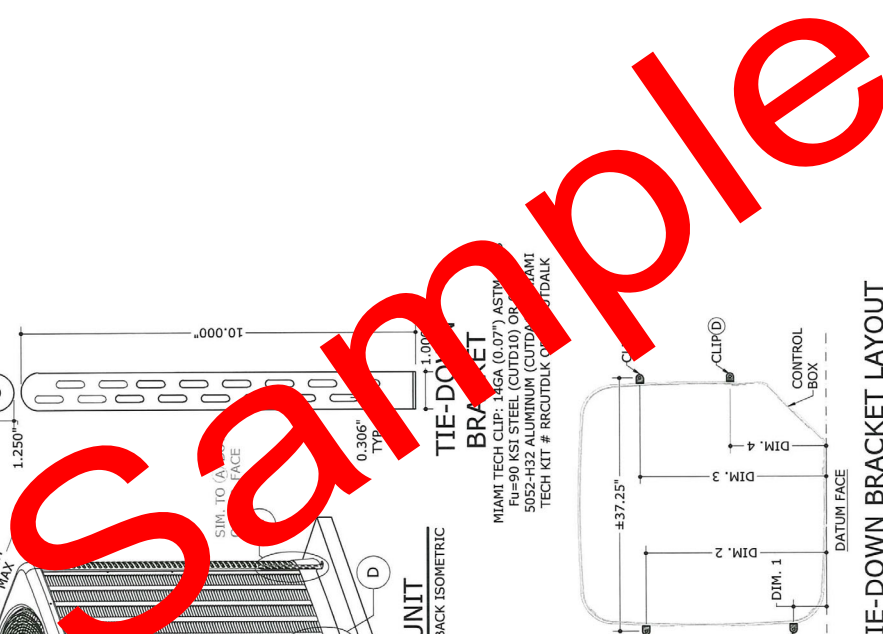
RHEEM SALES COMPANY, INC.
1100 ABERNATHY ROAD SUITE 1400
ATLANTA, GA (770) 351-3000
MECHANICAL UNIT
STEEL TIE-DOWN CLIPS
FLORIDA BUILDING CODE SEVENTH EDITION (2020)

DATE	CHMD	DRWN	TSB	JAC	FLB	CCB	RMN	2020 FPC	2021 FPC	2022 FPC	2023 FPC	2024 FPC	2025 FPC
05/14/19													
07/17/19													
10/19/20													

REMARKS
SCALE: NTS UNLESS NOTED
20-28800GD
OF 7
4

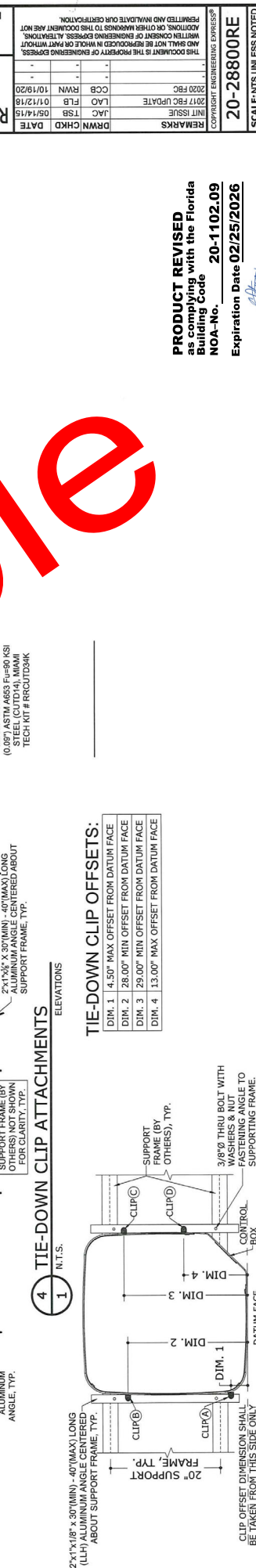
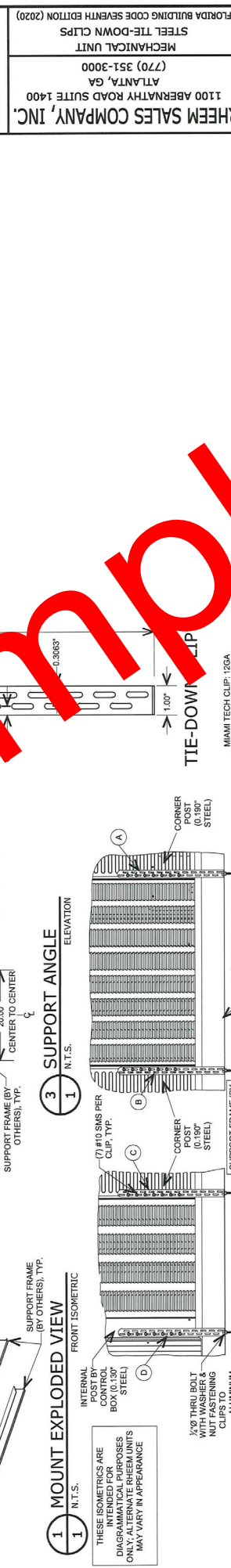
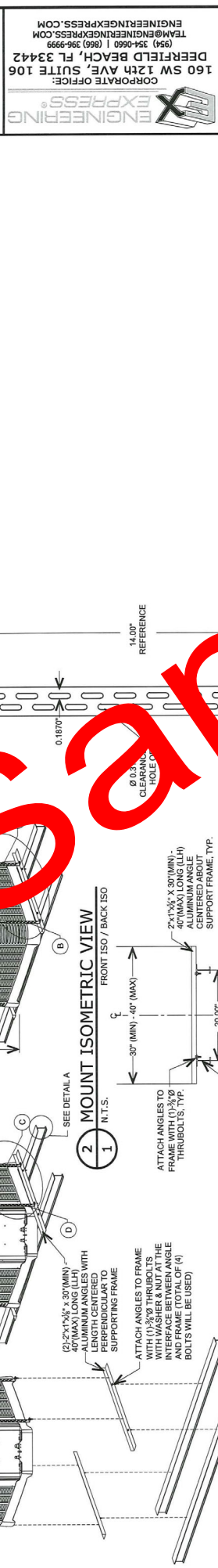
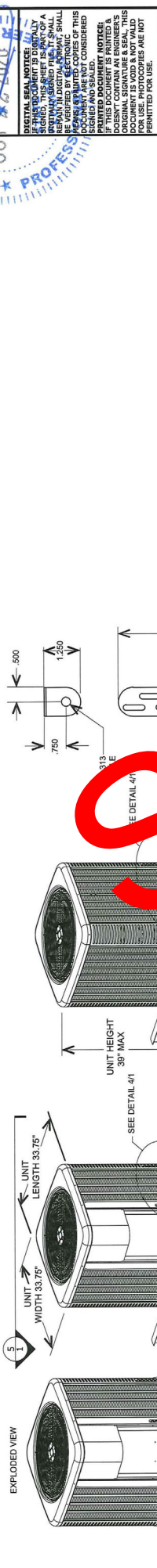
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-1102.09
Expiration Date 02/25/2026

By *[Signature]*
Miami-Dade Prequal Control



RHEEM SALES COMPANY, INC.

WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETS AND STEEL TIE-DOWN CLIPS: ROOF MOUNTED APPLICATIONS



1 MOUNT EXPLODED VIEW
1 N.T.S.

2 MOUNT ISOMETRIC VIEW
1 N.T.S.

3 SUPPORT ANGLE
1 N.T.S.

4 TIE-DOWN CLIP ATTACHMENTS
1 N.T.S.

5 TIE-DOWN CLIP LAYOUT
1 N.T.S.

PLAN

NOTE: UNIT SHALL BE CENTERED ABOUT THE 20" RAIL TO RAIL SUPPORTING FRAME (BY OTHERS)

FRANK BERNARDO, PE
REGISTERED PROFESSIONAL ENGINEER
FLORIDA REG. NO. 12488

10/22/2020 - 3:26pm
rckm

V:\Projects\20-28800 - Wind Load Cert of Mechanical Unit\WP\2020 FBC\10 - 28-28800 - NOA18-0712.07 - Wind Load Cert of Mechanical Unit\WP\2020 FBC\10 - 28-28800 - NOA18-0719.07 - DWG\PS-7.dwg

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REMARKS
DRWN CHKD DATE
JAC TSB 05/14/15
INT ISSUE
LAO FLB 01/12/18
2020 FBC
CCB RWM 10/19/20

MECHANICAL UNIT
STEEL TIE-DOWN CLIPS
FLORIDA BUILDING CODE SEVENTH EDITION (2020)

RHEEM SALES COMPANY, INC.
1100 ABERNATHY ROAD SUITE 1400
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10/22/2020 - 3:26pm
rckm

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NOA-No. 20-1102.09
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6
7

20-28800RE

SCALE: NTS UNLESS NOTED

WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETS AND STEEL TIE-DOWN CLIPS: ROOF MOUNTED APPLICATIONS

EXPLODED VIEW

FRONT ISOMETRIC VIEW

MOUNT EXPLODED VIEW

SUPPORT ANGLE

TIE-DOWN CLIP ATTACHMENTS

TIE-DOWN CLIP LAYOUT

PLAN

NOTE: UNIT SHALL BE CENTERED ABOUT THE 20" RAIL TO RAIL SUPPORTING FRAME (BY OTHERS)

RHEEM SALES COMPANY, INC.

WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETS AND STEEL TIE-DOWN CLIPS: ROOF MOUNTED APPLICATIONS



FRANK BERNARDO, PE
PE# 16340, CA# 9885

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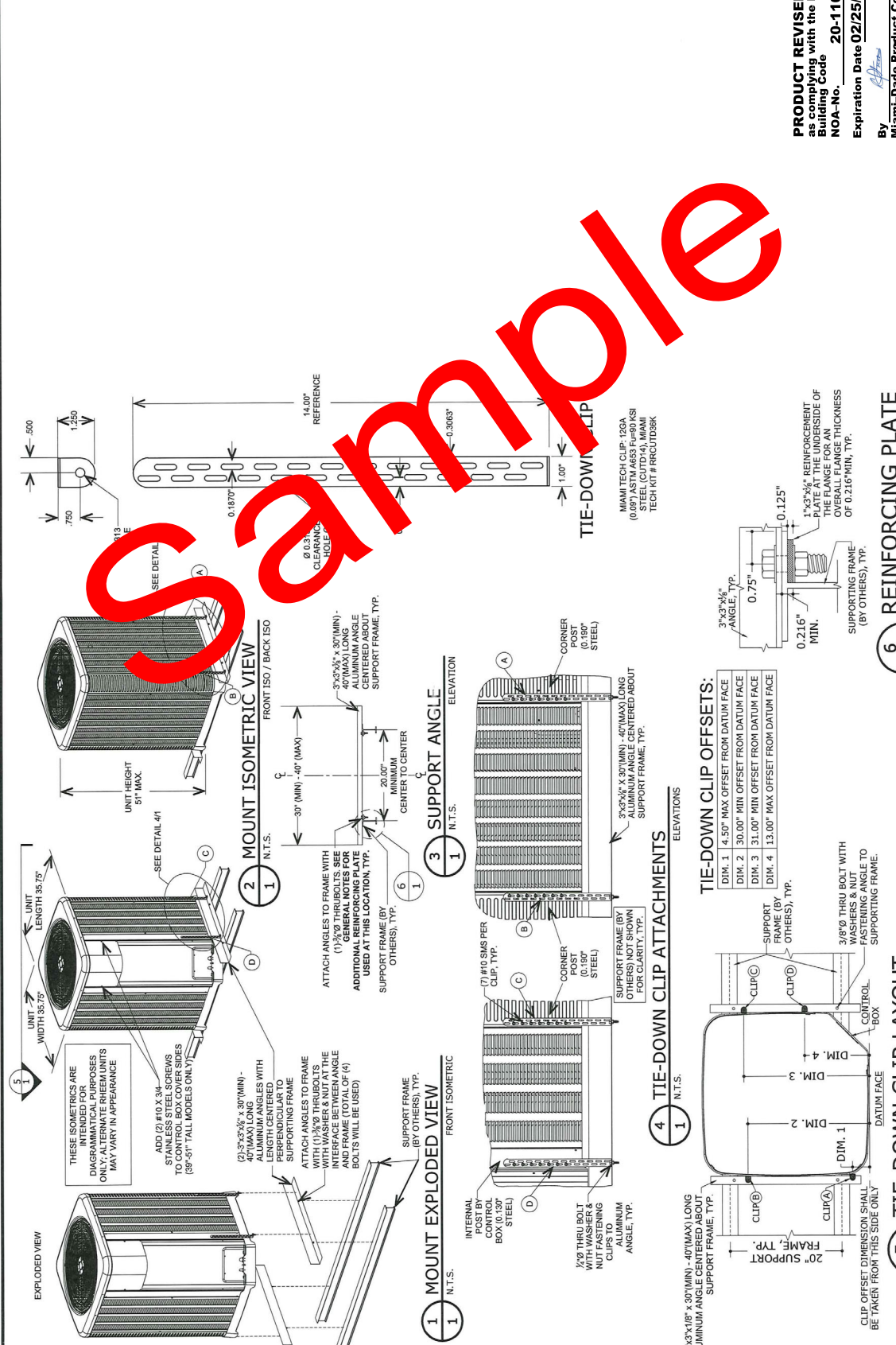
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ATLANTA, GA
(770) 351-3000
MECHANICAL UNIT
STEEL TIE-DOWN CLIPS
FLORIDA BUILDING CODE SEVENTH EDITION (2020)

DRWN	CHKD	DATE
JAC	TBS	05/14/15
LAO	FLB	01/12/18
2021	FBC	UPDATE
2020	FBC	
CB	RWN	10/19/20

20-28800RE
SCALE: UNLESS NOTED
7

7

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Building Code
NOA-No. 20-1102.09
Expiration Date 02/25/2026
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Miami-Dade Product Control



6 REINFORCING PLATE

SECTION
6
1 6" = 1'-0"

5 TIE-DOWN CLIP LAYOUT

PLAN
5
1 N.T.S.
NOTE: UNIT SHALL BE CENTERED ABOUT THE 20" RAIL TO RAIL SUPPORTING FRAME (BY OTHERS)

- TIE-DOWN CLIP OFFSETS:**
- DIM. 1 14.50" MAX OFFSET FROM DATUM FACE
 - DIM. 2 30.00" MIN OFFSET FROM DATUM FACE
 - DIM. 3 31.00" MIN OFFSET FROM DATUM FACE
 - DIM. 4 13.00" MAX OFFSET FROM DATUM FACE

4 TIE-DOWN CLIP ATTACHMENTS

ELEVATIONS
4
1 N.T.S.

1 MOUNT EXPLODED VIEW

FRONT ISOMETRIC
1
1 N.T.S.

2 MOUNT ISOMETRIC VIEW

FRONT ISO / BACK ISO
2
1 N.T.S.

3 SUPPORT ANGLE

ELEVATION
3
1 N.T.S.

5 TIE-DOWN CLIP LAYOUT

PLAN
5
1 N.T.S.

6 REINFORCING PLATE

SECTION
6
1 6" = 1'-0"

Sample



Certificate of Product Ratings

AHRI Certified Reference Number : 210404255 Date : 01-25-2023 Model Status : Active

AHRI Type : RCU-A-C (Split System: Air-Cooled Condensing Unit, Coil Alone)

Outdoor Unit Brand Name : RHEEM

Outdoor Unit Model Number (Condenser or Single Package) : RA14AZ18AJ1N

Indoor Unit Brand Name : First Co.

Indoor Unit Model Number (Evaporator and/or Air Handler) : 19HX W/TV

Region : All (AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, HI, ID, IL, IA, IN, KS, KY, LA, ME, MD, MA, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, WI, WY, U.S. Territories)

Region Note : Central air conditioners manufactured prior to January 1, 2015 are eligible to be installed in all regions until June 30, 2016. Beginning July 1, 2016 central air conditioners can only be installed in region(s) which they meet the regional efficiency requirement.

The manufacturer of this First Co. product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240-100 Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A_{Full}) – Single or High Stage (95F) – 6600

SEER2 : 14.30

EER2 (A_{Full}) – Single or High Stage (95F) – 70



†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced."Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.

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