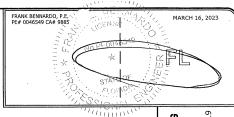
RHEENI SALES COMPANY, INC.

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

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.



APPROVED DESIGN ASCE 7 Vult=175 MPH (Vasd-136 MPH), EXPOSURE 'D', AT GRADE INSTALLATION ONLY UNIT LENGTH 29.75" MAX SIM. TO © BUT ON OPP. FACE SIM. TO (A) BUT ON OPP, FACE CONCRETE CONCRETE SUPPORTING-SUPPORTING-STRUCTURE BY STRUCTURE BY OTHERS, TYP. OTHERS, TYP. MECHANICAL UNIT MECHANICAL UNIT NOT TO SCALE NOT TO SCALE THESE ISOMETRICS ARE INTENDED FOR DIAGRAMMATICAL PURPOSES ONLY; ALTERNATE RHEEM UNITS MAY VARY IN APPEARANCE

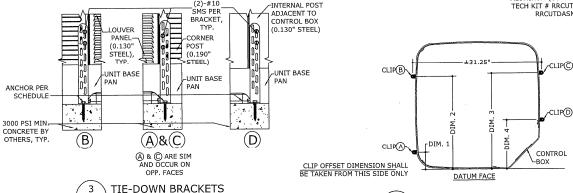
(2)-#10

0.306" 1.000

BRACKET

MIAMI TECH CLIP: 14GA (0.07") ASTM A653 Fu=90 KSI STEEL (CUTD8) OR 0.080" 5052-H32 ALUMINUM (CUTDA8), MIAMI TECH KIT # RRCUTDSMK OR RRCUTDASMK

TIE-DOWN



ANCHOR SCHEDULE:

	SUBSTRATE	DESCRIPTION
-	CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-1/4"Ø STAINLESS STEEL ITW BUILDEX TAPCON, 1¾" FULL EMBED TO CONCRETE, 2½" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.

NOT TO SCALE

TIE-DOWN BRACKET LAYOUT NOT TO SCALE

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

PRODUCT REVISED 23-0328.04

Expiration Date 02/25/2026

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. THIS DESIGN IS NOT INTENDED TO CERTIFY IMPACT RESISTANCE OF THE MECHANICAL UNIT CABINETRY.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
- 3. DESIGN & CERTIFICATION OF THE UNIT CABINETRY IS APPROVED THROUGH TEST REPORT#0323.01-15 BY AMERICAN TEST LAB OF SOUTH FLORIDA
- ALL MODELS WITH THE MAXIMUM DIMENSIONS, MINIMUM WEIGHT (120 LB MINIMUM), AND MINIMUM MATERIAL STRENGTH, THICKNESS, AND FASTENERS SHOWN HEREIN ARE COVERED UNDER THIS NOA. MODELS SHALL CONFORM TO THE LIMITATIONS STATED HEREIN. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
- TAPCONS REFERRED TO HEREIN SHALL BE ITW BUILDEX BRAND, ASTM F593
 410 STAINI FSS STEEL OR EQUIVALENT ONLY, INSTALLED TO 3000 PSI MIN CONCRETE. SEE ANCHOR SCHEDULE FOR ANCHOR REQUIREMENTS. ALL SHEET METAL SCREWS USED TO FASTEN BRACKETS TO MECHANICAL UNITS SHALL BE #10 (14 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 CONCRETE SPECIFIED HEREIN IS NOT PART OF THIS CERTIFICATION. AS A MINIMUM, ALL CONCRETE SHALL BE STRUCTURAL CONCRETE 4" MIN. THICK AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, LINLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY
- THE ADEQUACY OF ANY EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS SHALL BE VERIFIED BY THE ONSITE DESIGN PROFESSIONAL AND IS NOT INCLUDED IN THIS CERTIFICATION. EXCEPT AS EXPRESSI Y PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- 11. WATER-TIGHTNESS OF EXISTING HOST SUBSTRATE SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR. CONTRACTOR SHALL ENSURE THAT ANY REMOVED OR ALTERED WATERPROOFING MEMBRANE IS RESTORED AFTER FABRICATION AND INSTALLATION OF STRUCTURE PROPOSED HEREIN. THIS ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY WATERPROOFING OR LEAKAGE ISSUES WHICH MAY OCCUR AS WATER-TIGHTNESS SHALL BE THE FULL RESPONSIBILITY OF THE
- 12. FOR AN EXPLANATION OF EXPOSURE CATEGORIES THAT ACCOMPANY THE Vult WIND SPEEDS USED IN THIS DOCUMENT, SEE SECTION 26.7 OF ASCE 7

ENGINEERIN EXPRESS*

AND ALUMINUM TIE-DOWN CLIPS ROOFTOP APPLICATIONS

COMPANY WOOD RD

EM SALES COM 5600 OLD GREENWOOD RD FORT SMITH, AR 72917

CO	REMARKS	DRWN	DRWN СНКD	DATE	
PYR	INIT ISSUE	JAC		05/14/15	
IGF	2017 FBC UPDATE	LAO	FLB	01/12/18	
ΤE	2020 FBC	CCB	RWN	10/19/20	
NGI	ADD MODEL NOTE	EPR		03/10/23	
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20-28800GA





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

-DIM

NOT TO SCALE

DATUM FACE

TIE-DOWN BRACKET LAYOUT

CLIPA

CLIP OFFSET DIMENSION SHALL

BE TAKEN FROM THIS SIDE ONLY

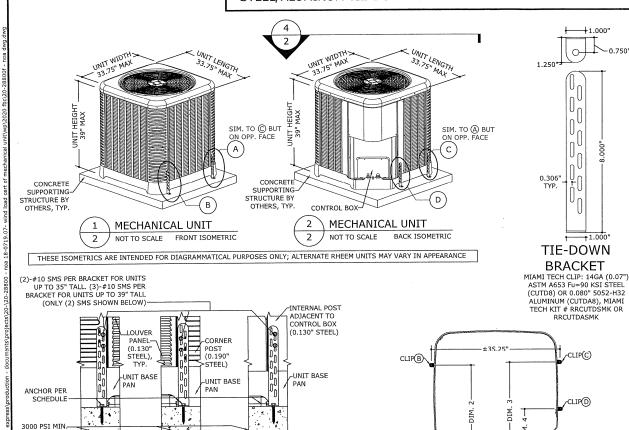
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1.000

CLIP(C)

CLIP(D)

CONTROL



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CONCRETE BY

OTHERS, TYP.

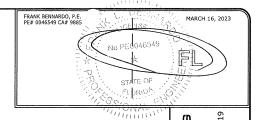
(B)

 \widehat{A}

A & C ARE SIM

NOT TO SCALE

TIE-DOWN PRACKETS



PRODUCT REVISED as complying with the Florida Building Code NOA-No.

Expiration Date 02/25/2026

Miami-Dade Product Control

23-0328.04

POSTAL ADDRESS: 401 W. ATLANTIC AVE R10 BOX 219 DELRAY BEACH, FL 33444 ENGINEERINGEXPRESS.COM

EM SALES COMPANY 5600 OLD GREENWOOD RD FORT SMITH, AR 72917 (770) 351-3000 RHEEM

20-28800GB SCALE: NTS UNLESS NOTE

ANCHOR SCHEDULE:

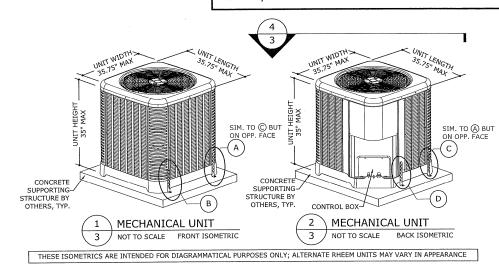
SUBSTRATE	DESCRIPTION
CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-1/4"Ø STAINLESS STEEL ITW BUILDEX TAPCON, 1¾" FULL EMBED TO CONCRETE, 2½" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.

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

RHEEM SALES COMPANY, INC.

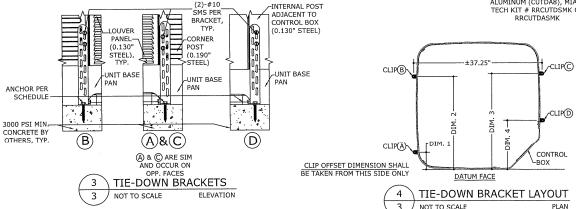
WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETRY AND STEEL/ALUMINUM TIE-DOWN CLIPS: AT GRADE MOUNTED APPLICATIONS



1.000" 0.306 TYP. 1.000 TIE-DOWN

BRACKET

MIAMI TECH CLIP: 14GA (0.07") ASTM A653 Fu=90 KSI STEEL (CUTD8) OR 0.080" 5052-H32 ALUMINUM (CUTDA8), MIAMI TECH KIT # RRCUTDSMK OR RRCUTDASMK

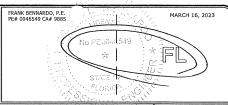


ANCHOR SCHEDULE:

SUBSTRATE	DESCRIPTION
CONCRETE:	(1)-1/4"Ø STAINLESS STEEL ITW BUILDEX TAPCON,
(4" THICK MIN,	1¾" FULL EMBED TO CONCRETE, 2½" MIN. EDGE
3000 PSI MIN.)	DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.

TIE-DOWN BRACKET OFFSETS:

DIM. 1	4.50" 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



PRODUCT REVISED as complying with the Florida Building Code 23-0328.04

Expiration Date 02/25/2026

Miami-Dade Product Control

POSTAL ADDRESS: 401 W. ATLANTIC AVE R10 BOX 219 DELRAY BEACH, FL 33444 ENGINEERINGEXPRESS.COM

ALES COMPANY
D. GREENWOOD RD
SMITH, AR 72917

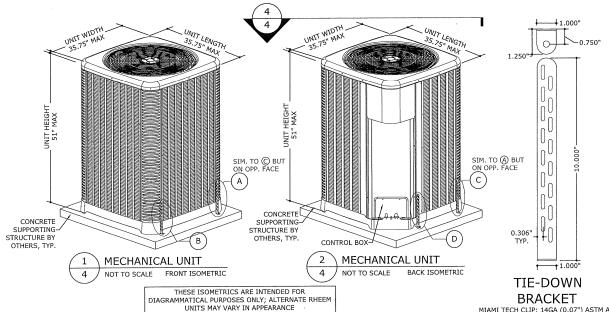
RHEEM SALES 5600 OLD GREENW

20-28800GC SCALE: NTS UNLESS NOTED



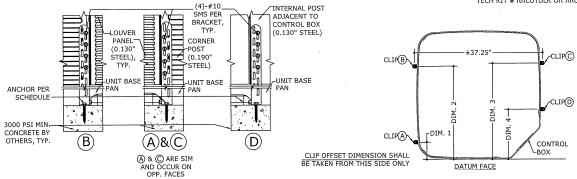


WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETRY AND STEEL/ALUMINUM TIE-DOWN CLIPS: AT GRADE MOUNTED APPLICATIONS



MIAMI TECH CLIP: 14GA (0.07") ASTM A653 Fu=90 KSI STEEL (CUTD10) OR 0.080" 5052-H32 ALUMINUM (CUTDA10), MIAMI TECH KIT # RRCUTDLK OR RRCUTDALK

TIE-DOWN BRACKET LAYOUT



TIE-DOWN BRACKETS

NOT TO SCALE



PRODUCT REVISED as complying with the Florida Building Code 23-0328.04

Expiration Date 02/25/2026

Miami-Dade Product Control

POSTAL ADDRESS: 401 W. ATLANTIC AVE R10 BC DELRAY BEACH, FL 3344 ENGINEERINGEXPRESS.CO

RHEEM SALES COMPANY 5600 OLD GREENWOOD RD FORT SWITH, AR 72917 (770) 351-3000

REMARKS	DRWN	DRWN CHKD	DATE	Ц.
INIT ISSUE	JAC	TSB	05/14/15	
2017 FBC UPDATE	P	FLB	01/12/18	
2020 FBC	CCB	RWN	10/19/20	
ADD MODEL NOTE	EPR	RWN	03/10/23	
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				_
				_
				_

20-28800GD

SCALE: NTS UNLESS NOTE

ANCHOR SCHEDULE:

	SUBSTRATE	DESCRIPTION
-	CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-1/4"Ø CARBON STEEL SIMPSON STRONG BOLT 2, 1¾" MIN EMBED TO CONCRETE, 3" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.
		(1)-1/4"Ø CARBON STEEL DEWALT WEDGE BOLT+, 2½" MIN EMBED TO CONCRETE, 3" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.

SUPPORTING CONCRETE SUBSTRATE DEPTH SHALL BE A MINIMUM

EITHER ANCHOR FROM THIS SCHEDULE MAY BE USED FOR INSTALLATION.

TIE-DOWN BRACKET OFFSETS:

DIM. 1	4.50" 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