

Installation Instructions for Pad Mount Tie Down Kit

New Platform Rheem & Ruud Outdoor Units

Kit Numbers

RRCUTDSMK (galvanized brackets)

RRCUTDASMK (aluminum brackets)

- 1) Carefully review included installation drawing before beginning installation of kit. Kit must be installed per this drawing and the following instructions to maintain certification of the tie-down method.
- 2) Center unit on concrete pad built with minimum dimensions shown on included installation drawing. Use appropriate drawing for the unit model being installed. The applicable unit models are listed on each drawing.
- 3) With the bottom of "L" bracket resting on the pad, attach the four (4) "L" brackets included in kit with the appropriate quantity of #10 x $\frac{3}{4}$ " self-drilling screws each included with the kit. Use two (2) screws per bracket for units 35" tall and shorter and three (3) screws per bracket for 39" tall units. **Do not attach brackets to the louver panels, but rather to the posts as shown in the included installation drawing.**
- 4) Drill a 2" deep pilot hole for the $\frac{1}{4}$ " Stainless Steel ITW Buildex Tapcon screw through the hole in each "L" bracket into the pad. These holes must be at least 3.0" inches from the edge of the pad.
- 5) Secure "L" brackets to pad with one $\frac{1}{4}$ " Stainless Steel ITW Buildex Tapcon screw per bracket.

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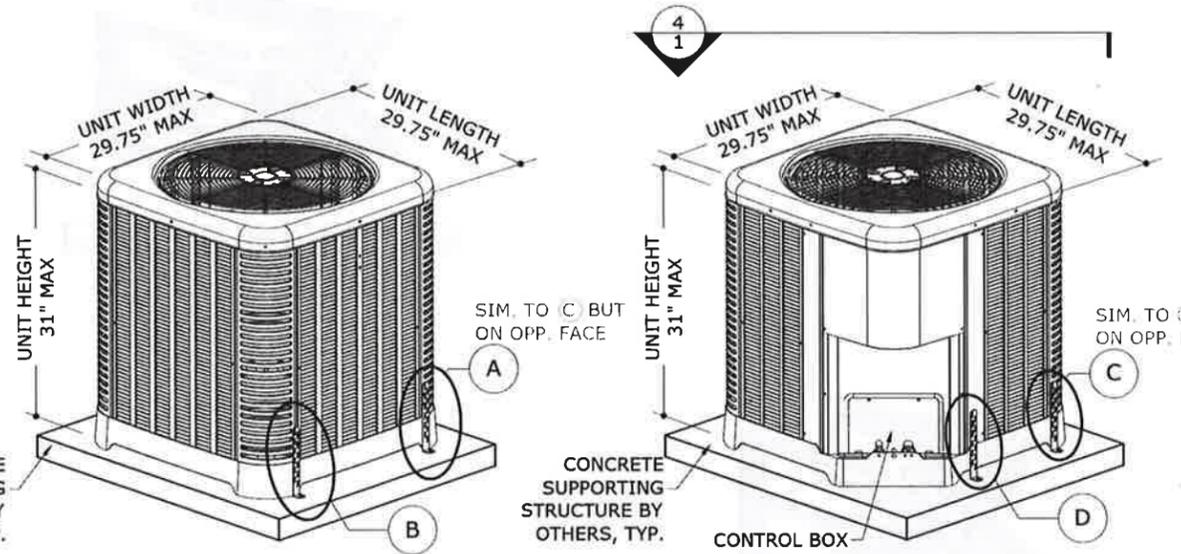
WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETY AND STEEL/ALUMINUM TIE-DOWN CLIPS: AT GRADE MOUNTED APPLICATIONS

FRANK L. BENNARDO, P.E.
PE# 0046549

MAR 14 2018

GORDON DIBATISTO, P.E.
PE# 82328

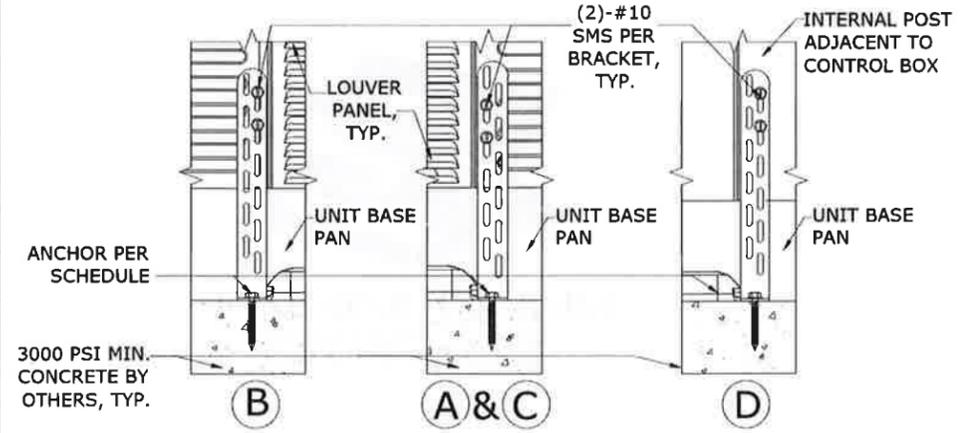
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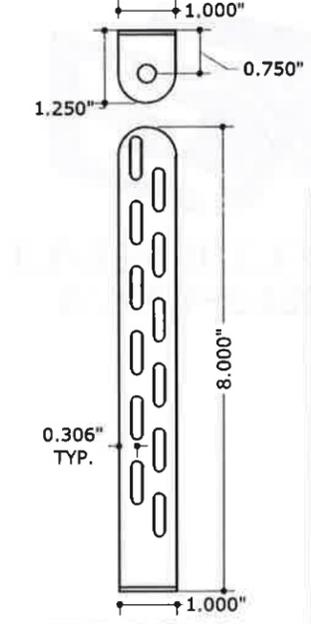
1 MECHANICAL UNIT
1 N.T.S. FRONT ISOMETRIC

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

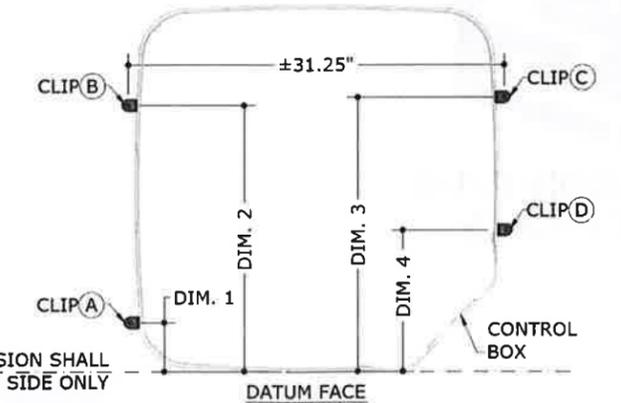
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UNITS LISTED HEREIN MAY VARY IN APPEARANCE



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



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



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

APPROVED DESIGN CRITERIA: ASCE 7-10 Vult=175 MPH (Vasd-136 MPH), EXPOSURE 'D', AT GRADE INSTALLATION ONLY

DESIGN NOTES:
THIS SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH ASCE 7-10 AND THE FLORIDA BUILDING CODE SIXTH EDITION (2017) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. THE DESIGN CRITERIA CONSIDERS ASCE 7-10 SECTION 29.4.1 FOR "OTHER STRUCTURES - SOLID FREESTANDING WALLS" INSTALLATIONS AT GRADE. ALL DESIGN VARIABLES ARE IN ACCORDANCE WITH ASCE 7-10 CHAPTERS 26 & 29.

- GENERAL NOTES:**
- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017) & ASCE 7-10. 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 CABINETY.
 - NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
 - DESIGN & CERTIFICATION OF THE UNIT CABINETY 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 UNIT SHALL CONFORM TO 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 STAINLESS 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, UNLESS 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 OTHERS.
 - 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 EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
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 - FOR AN EXPLANATION OF EXPOSURE CATEGORIES THAT ACCOMPANY THE Vult WIND SPEEDS USED IN THIS DOCUMENT, SEE SECTION 26.7.3 OF ASCE 7-10.

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.

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

APPLICABLE MODELS:
RA1318, RA1324, RA1330,
RA1336, RA1342, RA1418,
RA1424, RA1430, RA1618,
RP1418, RP1424, RP1430,
RP1518, RD1418, RP1524,
RD1424

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ATLANTA, GA
(770) 351-3000
MECHANICAL UNIT
STEEL TIE-DOWN CLIPS
FLORIDA BUILDING CODE SIXTH EDITION (2017)

DRWN	CHKD	DATE
JAC	TSB	05/14/15
LAO	FLB	01/12/18

REMARKS
INIT ISSUE
2017 PBC UPDATE

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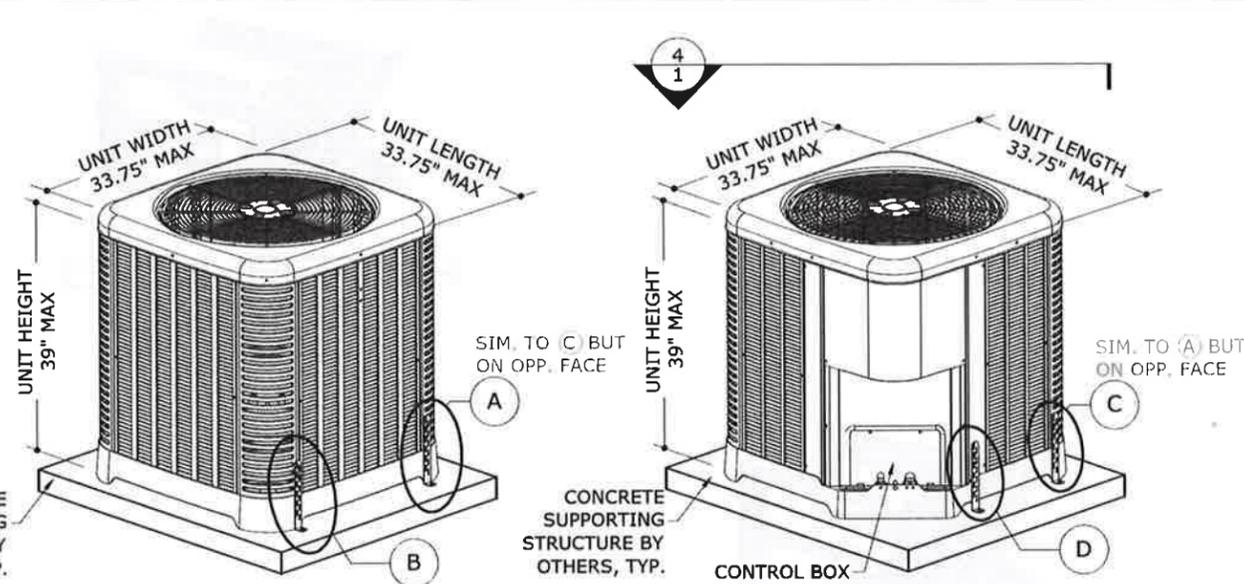
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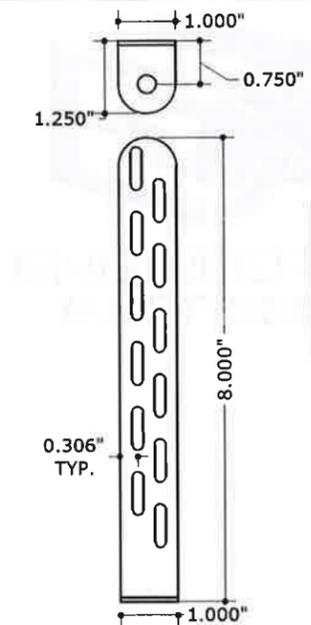
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2 MECHANICAL UNIT
1 N.T.S. BACK ISOMETRIC



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

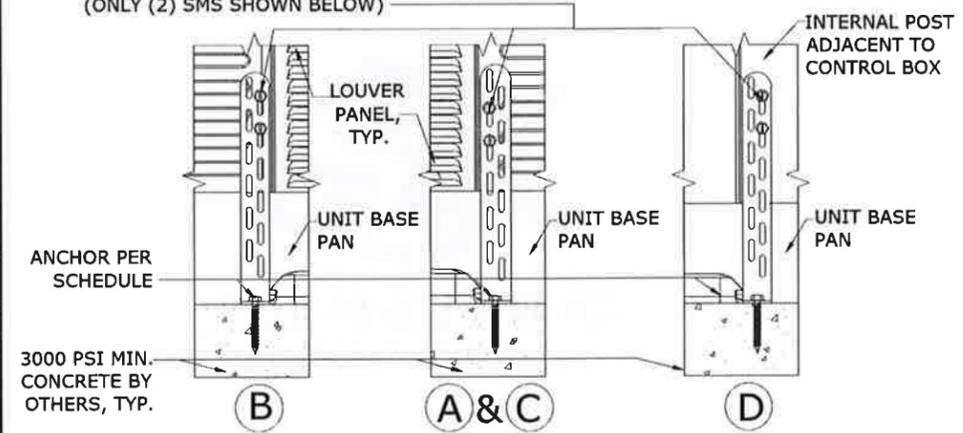
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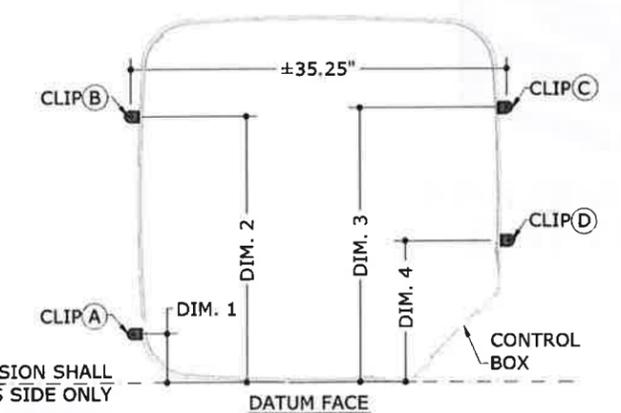
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(2)-#10 SMS PER BRACKET FOR UNITS UP TO 35" TALL. (3)-#10 SMS PER BRACKET FOR UNITS UP TO 39" TALL (ONLY (2) SMS SHOWN BELOW)

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



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

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.

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

APPLICABLE MODELS:
RA1348, RA1436, RA1442B, RA1624, RA1636B, RA1642B, RP1336, RP1348, RP1436, RP1442, RP1448, RP1530, RD1430, RP1536, RD1436, RP1542, RD1442, RA/UA1724, RA/UA2036, RA/UA2024 RP/UP1724, RP/UP1736, RA/UA1736, RP/UP2024

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MECHANICAL UNIT
STEEL TIE-DOWN CLIPS
FLORIDA BUILDING CODE SIXTH EDITION (2017)

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07/12/18	LAO	07/12/18	LAO

REMARKS: 2017 FBC UPDATE

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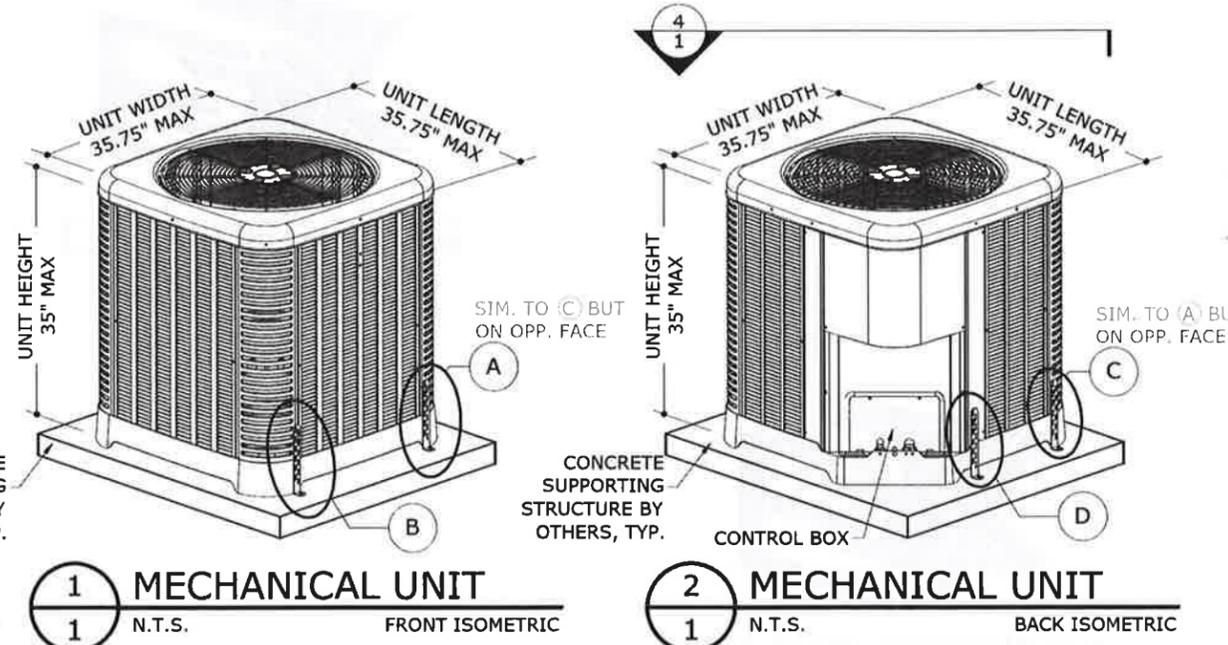
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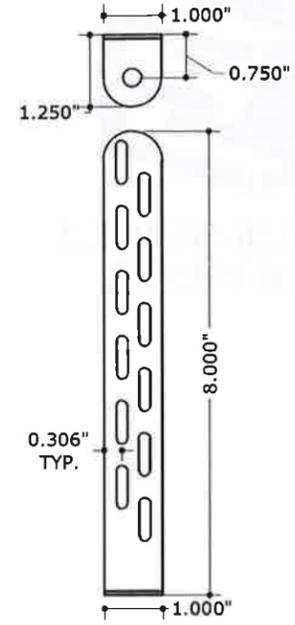
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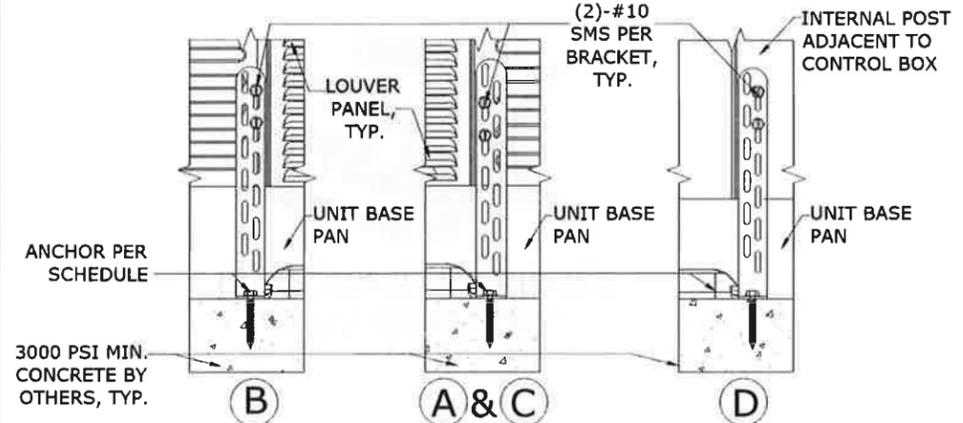
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2 MECHANICAL UNIT
1 N.T.S. BACK ISOMETRIC

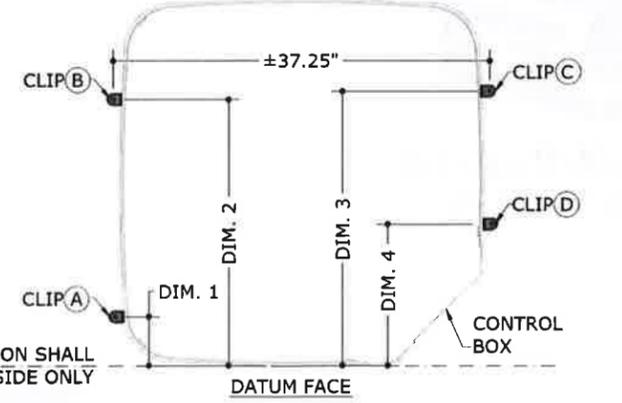
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TIE-DOWN BRACKET
MIAMI TECH CLIP: 14GA (0.07")
ASTM A653 Fu=90 KSI STEEL (CUTD8) OR 0.080" 5052-H32 ALUMINUM (CUTDA8), MIAMI TECH KIT # RRCUTDSMK OR RRCUTDASMK



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



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

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.

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

APPLICABLE MODELS:

RA1360, RA1442A,
RA1448, RA1460,
RA1630, RA1636A,
RP/UP2036,

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DATE	CHKD	DRWN	ISSUE	REMARKS
05/14/15	TSB	JAC	INIT	
01/12/16	FLB	LAO	2017 FBC UPDATE	

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SCALE: NTS UNLESS NOTED

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01/15/2018 - 3:35pm lars