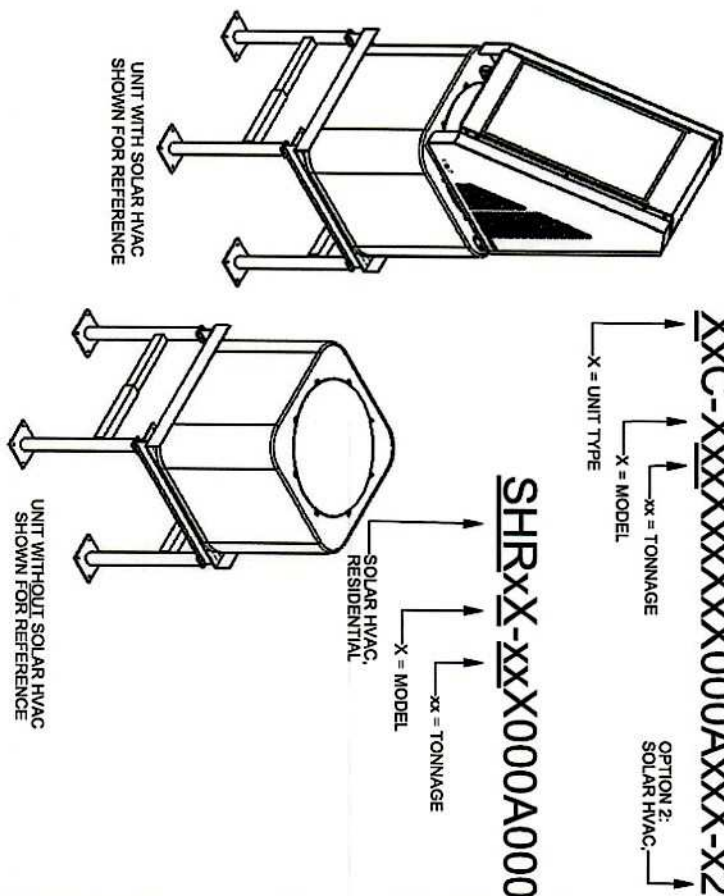


IAIRE, INC - WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETRY ON ALUMINUM STAND

XXC-XXXXXXXXX000AXXX-X2
 X = UNIT TYPE
 XX = TONNAGE
 OPTION 2:
 SOLAR HVAC



GENERAL NOTES:

1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) & 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.
2. ALL DIMENSION AND THE MINIMUM WEIGHT (126 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.
3. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
4. REACTION FORCES LISTED FOR USE WITH HOST STRUCTURE VERIFICATION ARE CALCULATED USING ASD METHODOLOGY. DESIGN PROFESSIONAL OF RECORD TO VERIFY APPLICABILITY AND/OR ADDITIONAL FACTORS FOR USE WITH HOST STRUCTURE VERIFICATION.
5. ALL FASTENERS TO BE #12 OR GREATER SAE GRADE 5, UNLESS NOTED OTHERWISE, CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL.
6. ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
7. 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.
8. 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.
9. 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 INSTALLING CONTRACTOR.
10. FOR AN EXPLANATION OF EXPOSURE CATEGORIES THAT ACCOMPANY THE WIND SPEEDS USED IN THIS DOCUMENT, SEE SECTION 26.7 OF ASCE 7.

DESIGN CRITERIA:

ASCE 7 VULT = 200 MPH, Δ
 EXPOSURE 'D' AT GRADE INSTALLATION ONLY

DESIGN NOTES:

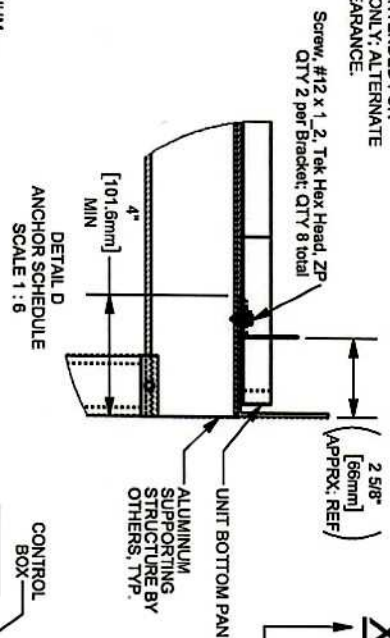
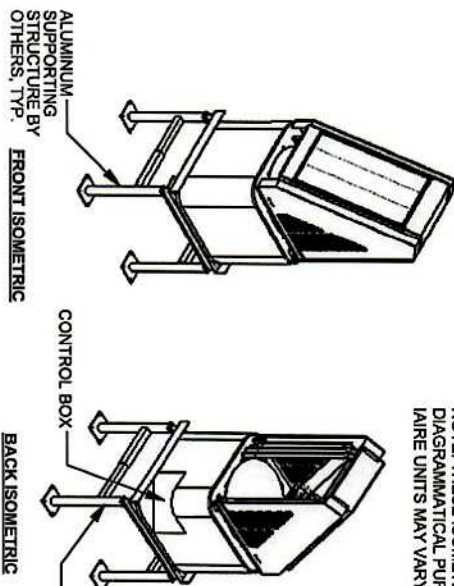
DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED SEPARATELY ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH ASCE 7 AND THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. THE DESIGN CRITERIA CONSIDERS ASCE 7 SECTION 29 FOR "OTHER STRUCTURES - SOLID FREESTANDING WALLS" INSTALLATIONS AT GRADE. ALL DESIGN VARIABLES ARE IN ACCORDANCE WITH ASCE 7 CHAPTERS 26 & 29.

Z:\Shared\Engineering\Drawing - Vult\Solar HVAC\Layout\DR - Solar HVAC Residential SHRXX-XXX000A000 - Wind Loading

REV	ECO #	DESCRIPTION	DATE	CHANGED BY	APPROVED BY	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF IAIRE, LLC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF IAIRE, LLC IS PROHIBITED.	PART NUMBER	RESIDENTIAL Split Wind Loading	MATERIAL	DRAWING SCALE	SHEET	SIZE
A	N/A	RELEASED FOR SUBMITTAL ONLY	3/1/2023	ADB	JF		SHRXX-XXX000A000 - Wind Loading		SEE BOM	1:32	1 OF 5	A
B	25.07.09	Updated to FBC 2023, was 1x#10; Vult was 1750 iph	2/8/2023	ADB								
C												
D												
E												
F												
G												
H												

IAIRE, INC - WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETRY AND STEEL TIE DOWN CLIPS: AT GRADE MOUNTED APPLICATIONS

NOTE: THESE ISOMETRIC ARE INTENDED FOR DIAGRAMMATICAL PURPOSE ONLY. ALTERNATE IAIRE UNITS MAY VARY IN APPEARANCE.



XXC-ZXXXXXXX000AXXX-X2

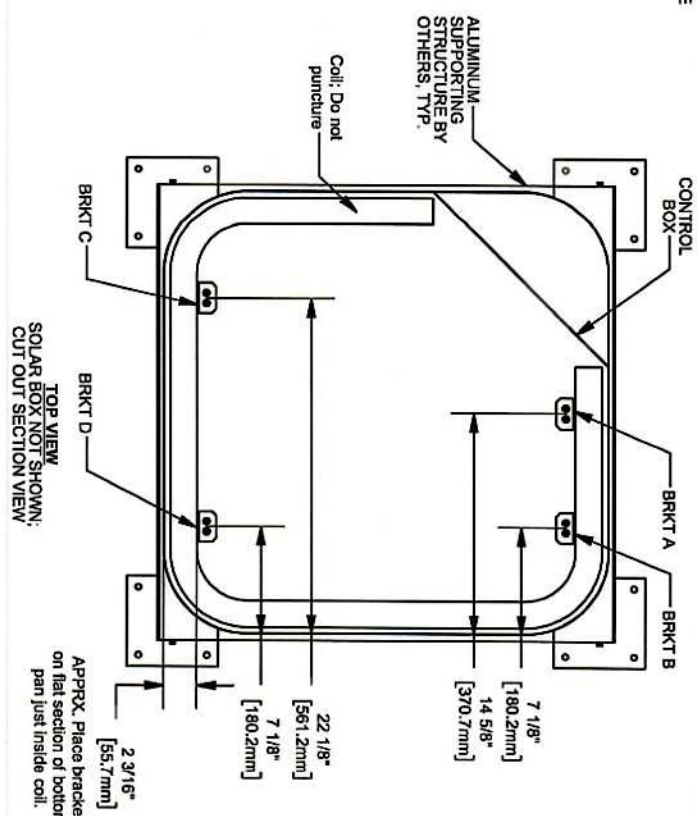
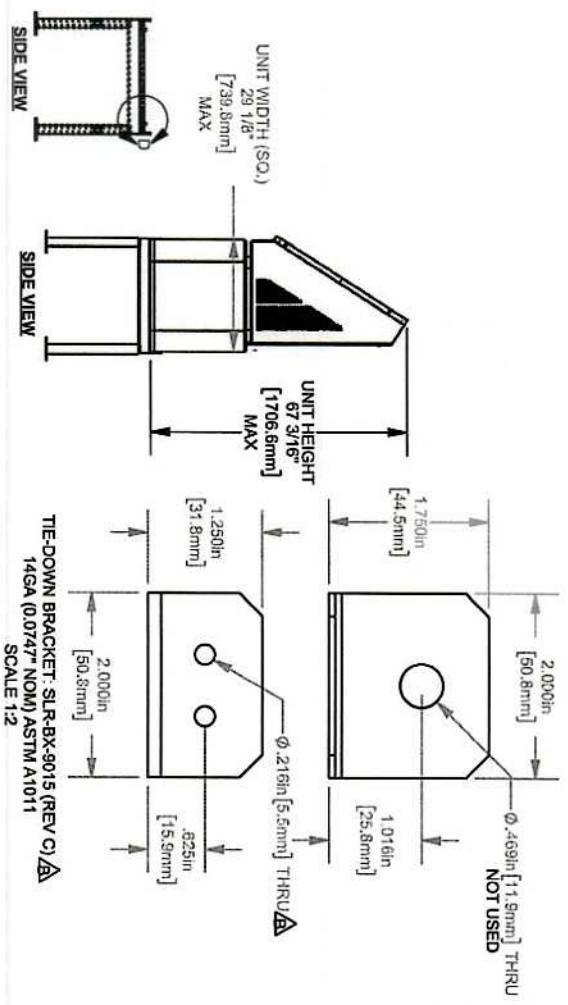
X = UNIT TYPE
U = ULTRADRY
V = TRUEVAV

SHRXX-Z-XXX000A000

SOLAR HVAC, RESIDENTIAL
MODEL Z

XX = TONNAGE
24 = 2-TON UNIT
36 = 3-TON UNIT

OPTION 2:
SOLAR HVAC.



REV	ECO #	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
A	N/A	RELEASED FOR SUBMITTAL ONLY	3/1/2023	ADB	
B	25.07.09	Updated to FBC 2023, was 1x#10, Vail was 175mph	7/9/2025	ADB	JF
C					
D					
E					
F					
G					
H					



IAIRE, LLC

6605 HILLSDALE COURT, INDIANAPOLIS, INDIANA 46250
TEL: (800) 886-2281 WWW.IAIRE.COM FAX: (317) 886-2770

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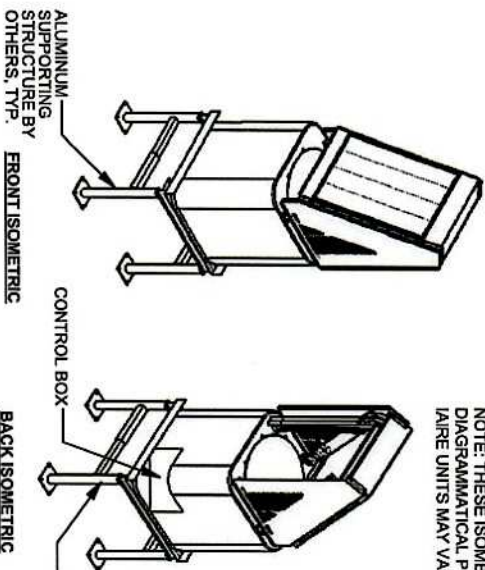
PART NUMBER: SHRXX-XXX000A000 - Wind Loading

PART DESCRIPTION: Residential Spill Wind Loading

TOLEANCES	WEIGHT (lb)	MATERIAL	DRAWING SCALE	SHEET	SIZE
±1/32", ±0.031", ±2°	Various	SEE BOM	1/4" = 1'-0"	2 OF 5	A

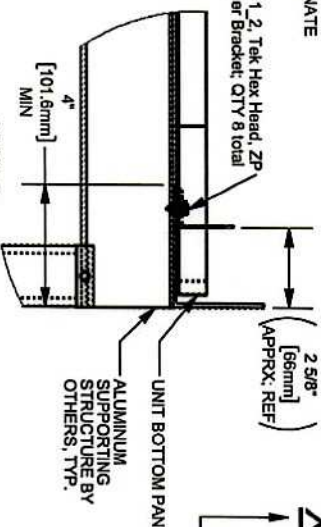
IAIRE, INC - WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETRY AND STEEL TIE DOWN CLIPS: AT GRADE MOUNTED APPLICATIONS

NOTE: THESE ISOMETRIC ARE INTENDED FOR DIAGRAMMATICAL PURPOSES ONLY. ALTERNATE IAIRE UNITS MAY VARY IN APPEARANCE.



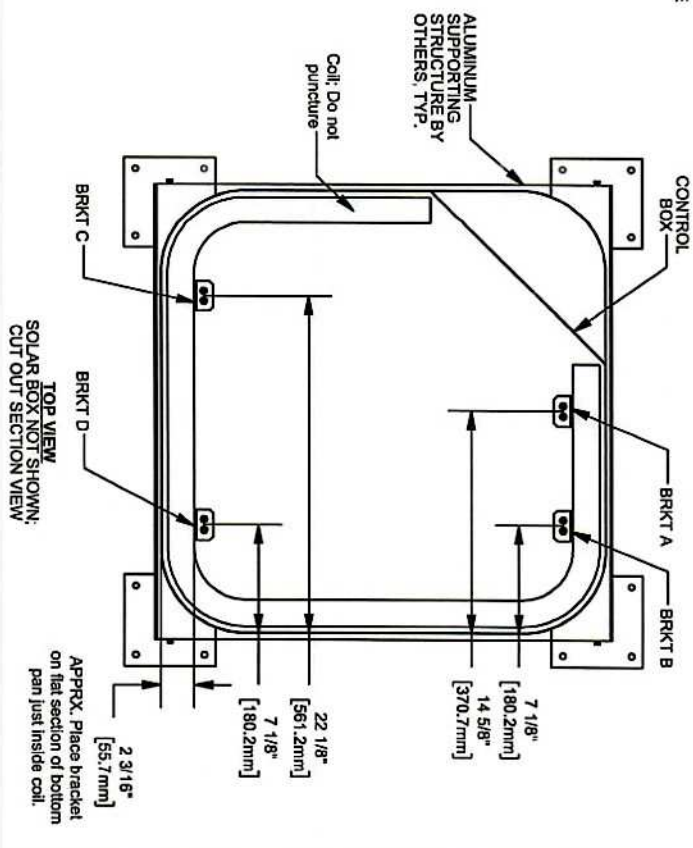
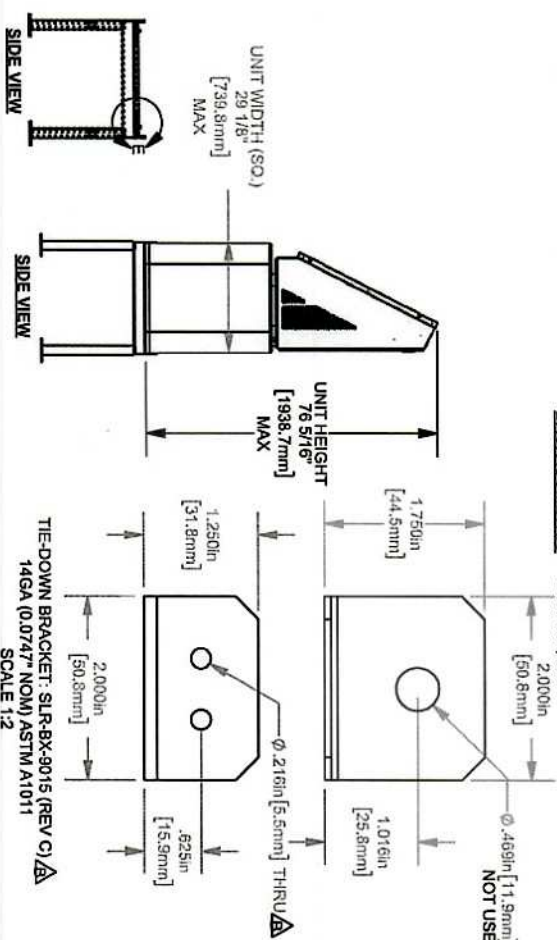
Screw, #12 x 1.2, Tek Hex Head, ZP
QTY 2 per Bracket; QTY 8 total

DETAIL E
ANCHOR SCHEDULE
SCALE 1:6



XXC-ZXXXXXXX000A000-X2
 X = UNIT TYPE
 U = ULTRADRY
 V = TRUEVAV
 MODEL Z
 48 = 4-TON UNIT
 60 = 5-TON UNIT
 OPTION 2:
 SOLAR HVAC

SHR-XZ-XXX000A000
 SOLAR HVAC, RESIDENTIAL
 MODEL Z
 48 = 4-TON UNIT
 60 = 5-TON UNIT



APPROX. Place bracket on flat section of bottom pan just inside coil.

REV	ECO #	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
A	N/A	RELEASED FOR SUBMITTAL ONLY	3/1/2023	ADB	JF
B	25.07.09	Updated to FBC 2023; was 1x#10; Valt was 175mph	7/9/2025	ADB	JF
C					
D					
E					
F					
G					
H					

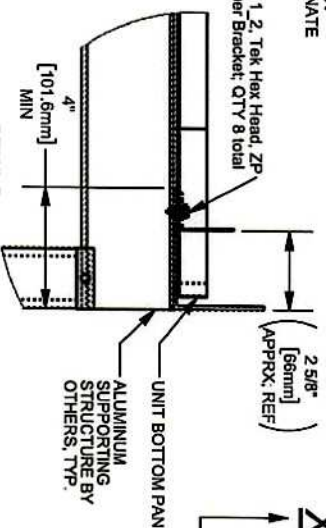
IAIRE, LLC
 6605 HILLDALE COURT, INDIANAPOLIS, INDIANA 46250
 TEL: (800) 885-2281 WWW.IAIRE.COM FAX: (317) 806-2770

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PART DESCRIPTION
 Residential Split Wind Loading
 MATERIAL
 SEE BOM
 DRAWING SCALE
 1:48
 SHEET
 3 OF 5
 SIZE
 A

NOTE: THESE ISOMETRIC ARE INTENDED FOR DIAGRAMMATICAL PURPOSES ONLY. ALTERNATE LAIRE UNITS MAY VARY IN APPEARANCE.

Screw, #12 x 1_2, Tek Hex Head, ZP
QTY 2 per Bracket; QTY 8 total

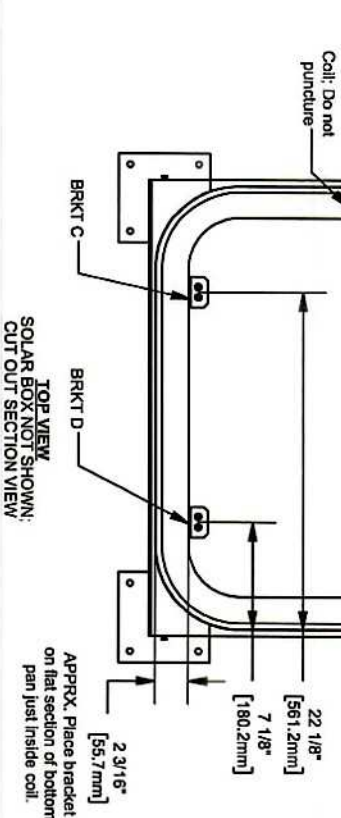
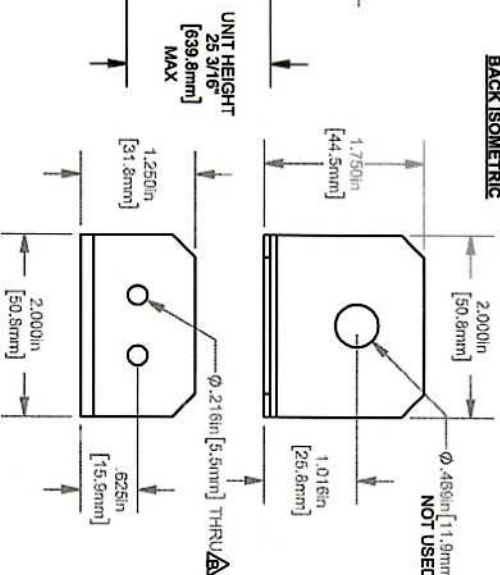
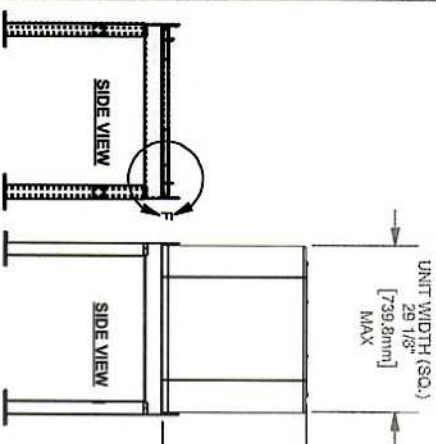
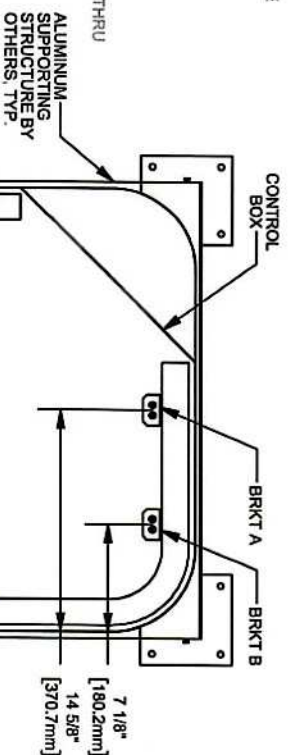
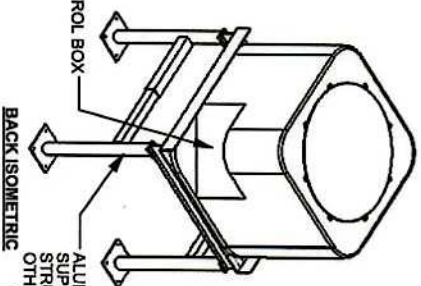
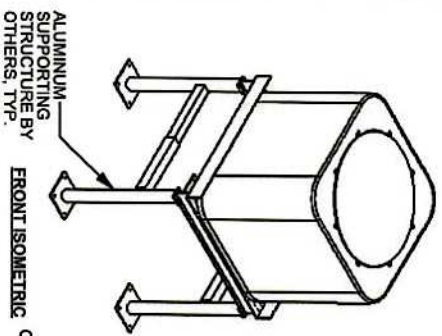


XXC-ZXXXXXX000AxxX-x

X = UNIT TYPE
U = ULTRADRY
V = TRUEVAV

MODEL Z

.XK = TONNAGE
24 = 2-TON UNIT
36 = 3-TON UNIT



REV	ECO #	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
A	N/A	RELEASED FOR SUBMITTAL ONLY	3/1/2023	ADB	
B	25.07.09	Updated to FBC 2023; was 1x#10; Valt was 175mph	7/9/2025	ADB	JF
C					
D					
E					
F					
G					
H					

TOLERANCES ±1/32", ±0.031", ±2°

WEIGHT (lb) Various



IAIRE, LLC

5895 HILLSIDE COURT, INDIANAPOLIS, INDIANA 46250
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PART NUMBER

SH-RXX-xx000A000 - Wind Loading

PART DESCRIPTION

Residential Split Wind Loading

MATERIAL

SEE BOM

DRAWING SCALE

1:32

SHEET

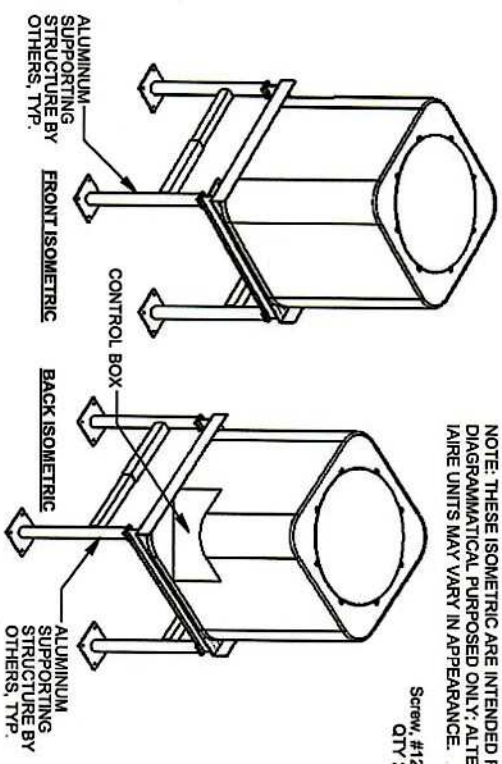
4 OF 5

SIZE

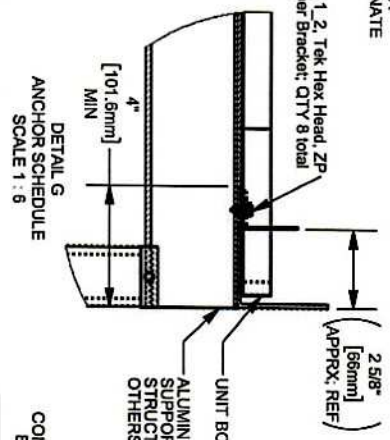
A

IAIRE, INC - WIND LOAD CERTIFICATION OF MECHANICAL UNIT CABINETRY AND STEEL TIE DOWN CLIPS: AT GRADE MOUNTED APPLICATIONS

NOTE: THESE ISOMETRIC ARE INTENDED FOR DIAGRAMMATICAL PURPOSE ONLY. ALTERNATE IAIRE UNITS MAY VARY IN APPEARANCE.



Screw, #12 x 1.2, Tek Hex Head, ZP
QTY 2 per Bracket; QTY 8 total

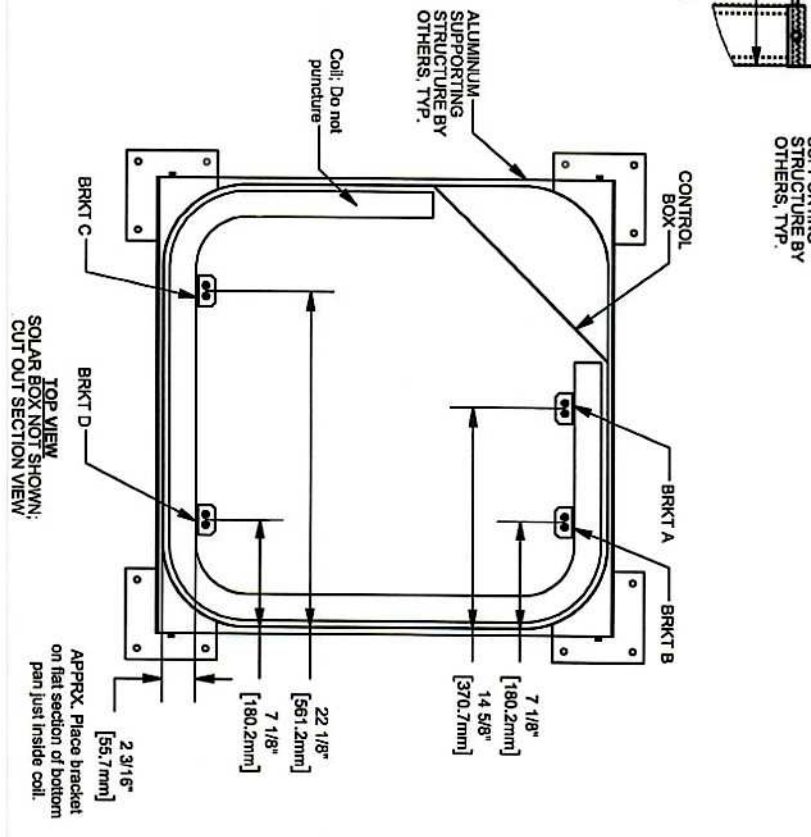
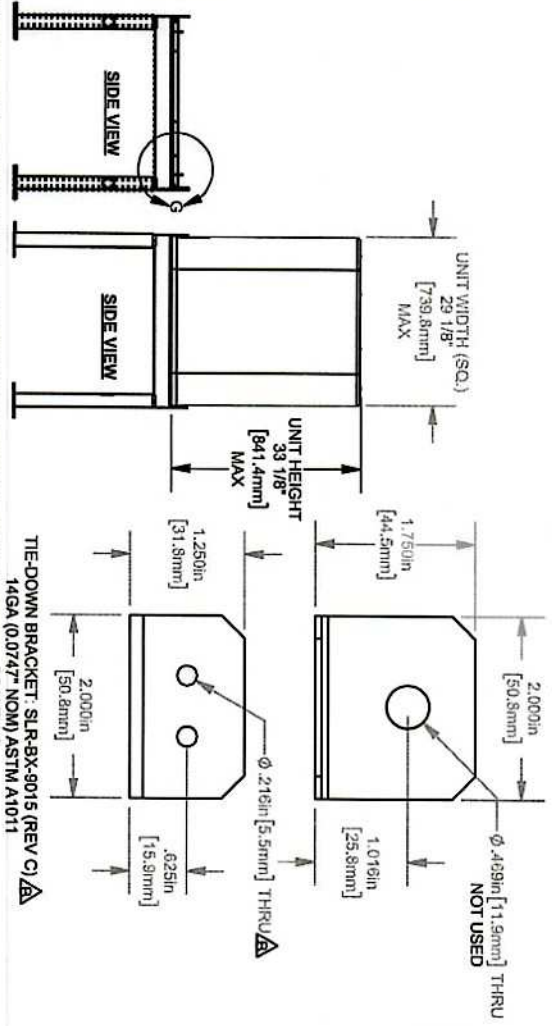


XXC-ZXXXXXXX000AXXX-X

XX = TONNAGE
48 = 4-TON UNIT
60 = 5-TON UNIT

MODEL Z

X = UNIT TYPE
U = ULTRADRY
V = TRUEVAV



TIE-DOWN BRACKET: SLR-BX-9015 (REV C) / 14GA (0.0747\"/>

REV	ECO #	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
A	N/A	RELEASED FOR SUBMITTAL ONLY	3/1/2023	ADB	JF
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C					
D					
E					
F					
G					
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PART NUMBER: SLRXX-000000A000 - Wind Loading

PART DESCRIPTION: Residential Split Wind Loading

TOLERANCES: ±1/32", ±0.031", ±2"

WEIGHT (lb): Various

DRAWING SCALE: 1:32

SHEET: 5 OF 5

SIZE: A