

RPH ADVANCED BUILDING SOLUTIONS

AW SERIES ROOF VAULTS

(HVHZ) (IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING SUBSTRATE AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- EXTERIOR STRUCTURE MATERIAL: 5052-H32 ALUMINUM ALLOY.
- ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.
- THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.

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MODEL	HOUSING LENGTH	HOUSING WIDTH	HOUSING HEIGHT	DESIGN PRESSURE	IMPACT MISSILE RATING
MEGA	34"	34"	24"	+/- 150 PSF	LARGE AND SMALL MISSILE IMPACT
MEDIUM	20.5"	14.5"	12"		
SMALL	16.5"	9.75"	10"		

NOTE: 18" MAX. CURB HEIGHT FOR ALL

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.06.19 12:20:44 -04'00'



RPH ADVANCED BUILDING SOLUTIONS
935 ISOM ROAD
SAN ANTONIO, TX, 78216
PH: 1-800-994-0945

TITLE:
AW SERIES ROOF VAULTS
(HVHZ) (IMPACT)

GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL47590**

DATE: **06.03.2025**

DWG. BY:
HJ

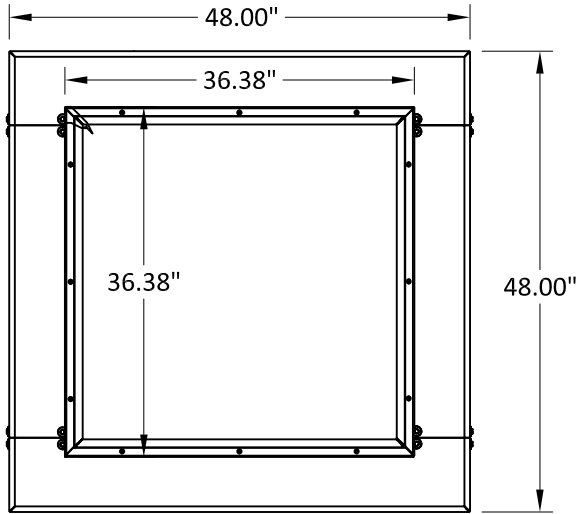
CHK. BY:
HFN

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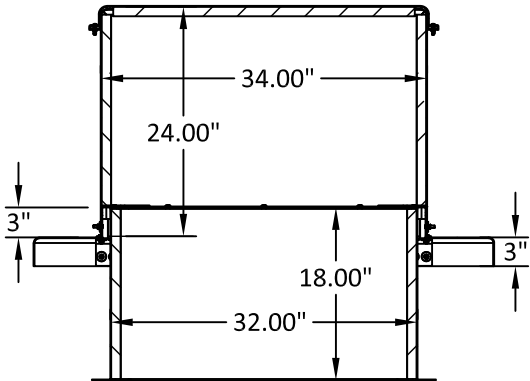
DWG. #: **JMC001**

SHEET:
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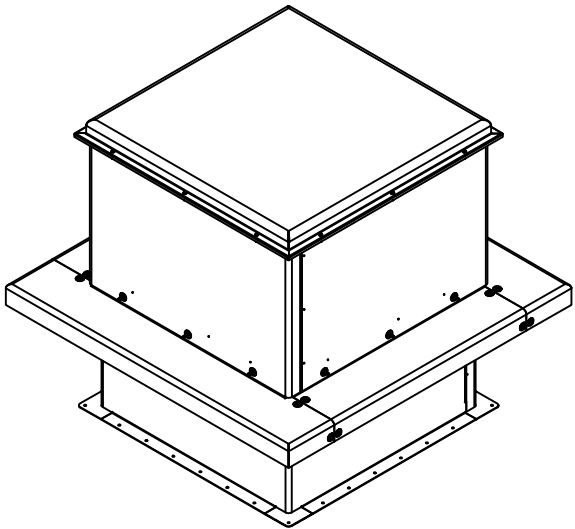
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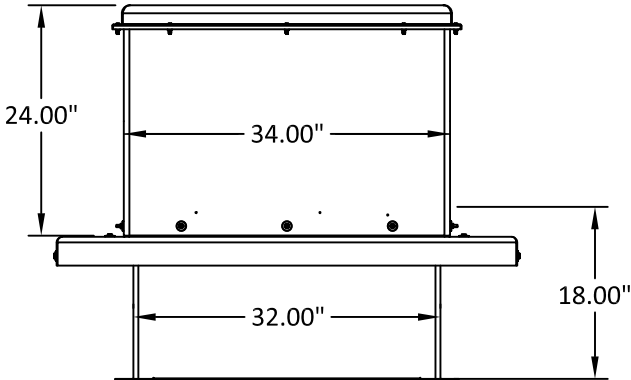
TOP VIEW
MEGA VAULT



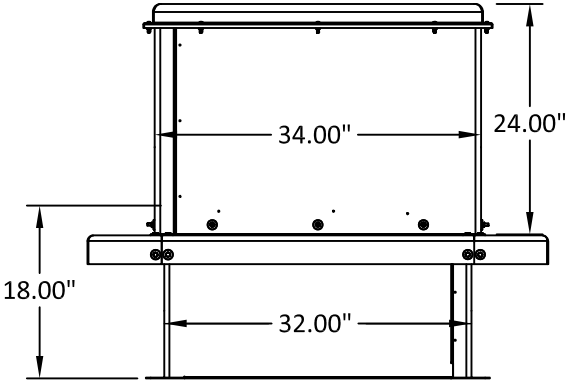
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MEGA VAULT



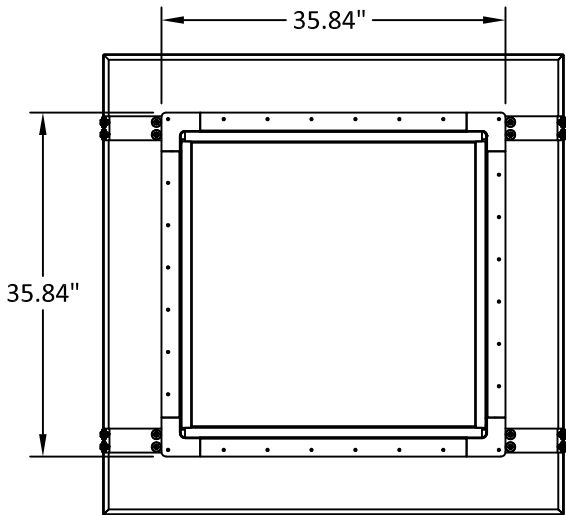
ISOMETRIC VIEW
MEGA VAULT



FRONT VIEW
MEGA VAULT



SIDE VIEW
MEGA VAULT



BOTTOM VIEW
MEGA VAULT



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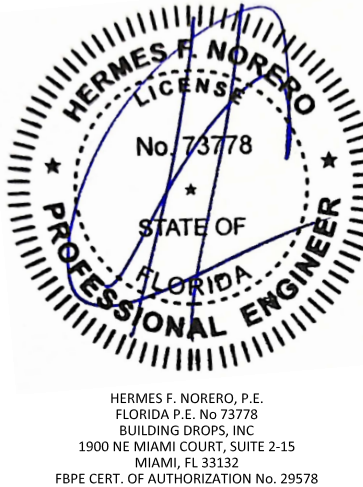
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MEGA VAULT ELEVATIONS &
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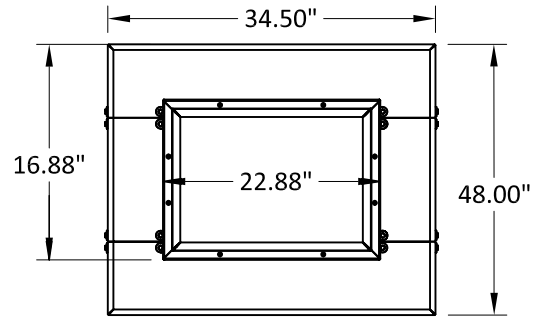
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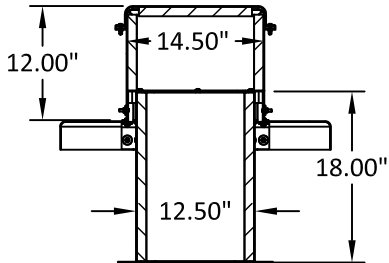


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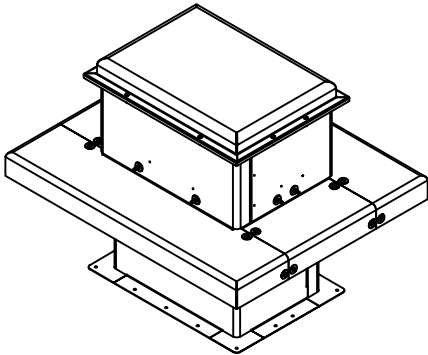
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SCALE:	NTS
DWG. #:	JMC001
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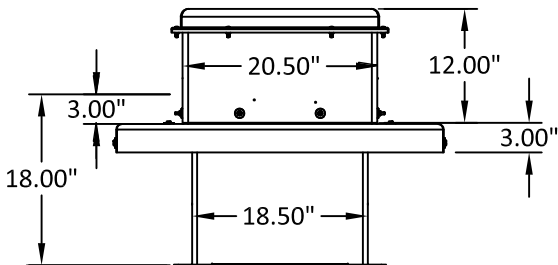
TOP VIEW
MEDIUM VAULT



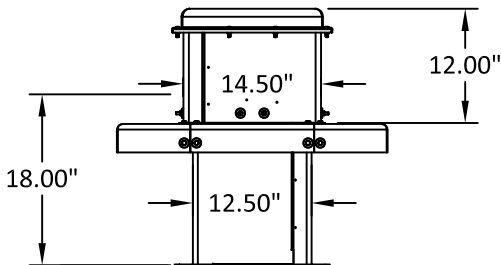
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MEDIUM VAULT



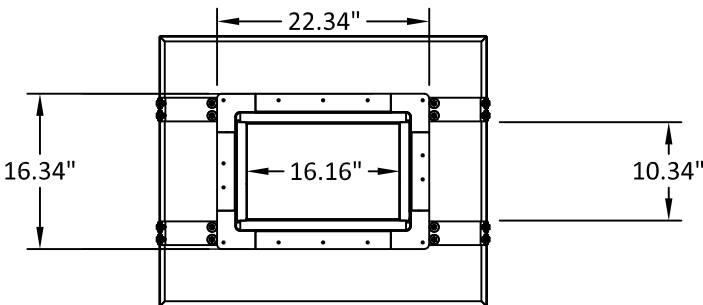
ISOMETRIC VIEW
MEDIUM VAULT



FRONT VIEW
MEDIUM VAULT



SIDE VIEW
MEDIUM VAULT



BOTTOM VIEW
MEDIUM VAULT



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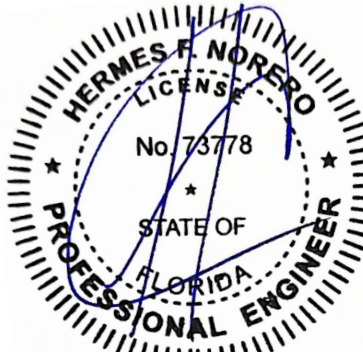
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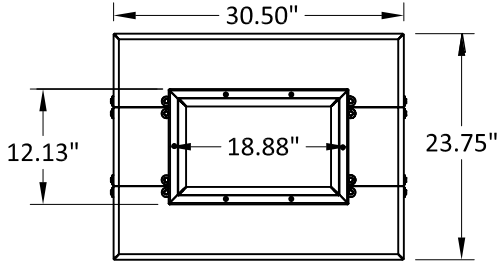
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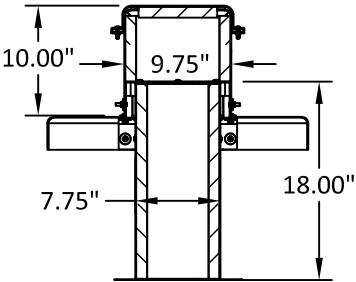


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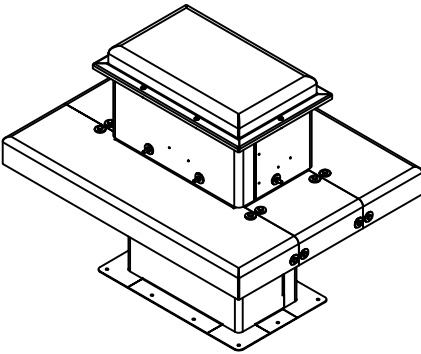
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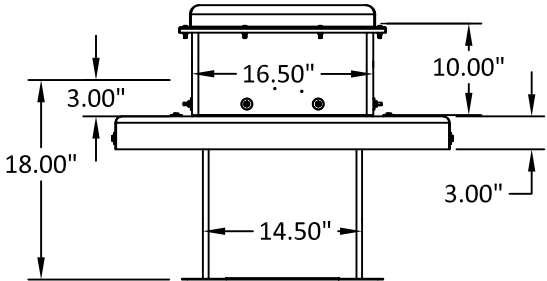
TOP VIEW
SMALL VAULT



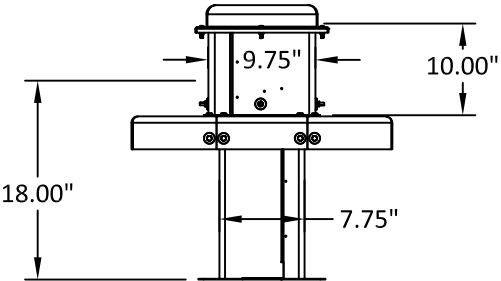
SECTION VIEW
SMALL VAULT



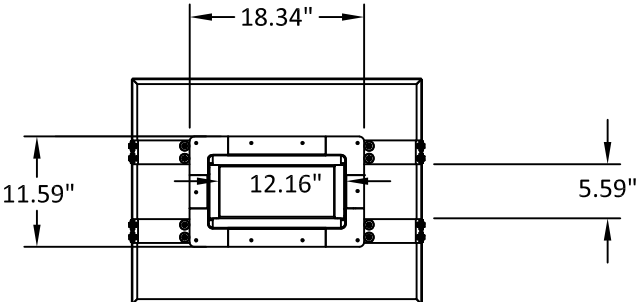
ISOMETRIC VIEW
SMALL VAULT



FRONT VIEW
SMALL VAULT



SIDE VIEW
SMALL VAULT



BOTTOM VIEW
SMALL VAULT



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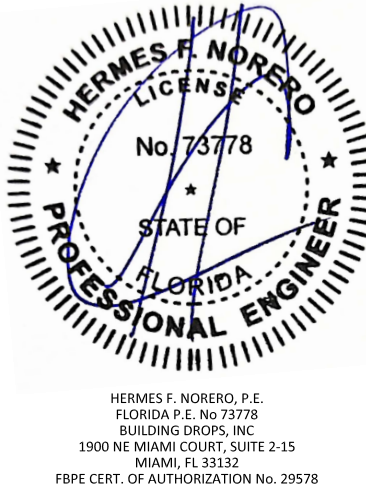
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SMALL VAULT ELEVATIONS AND
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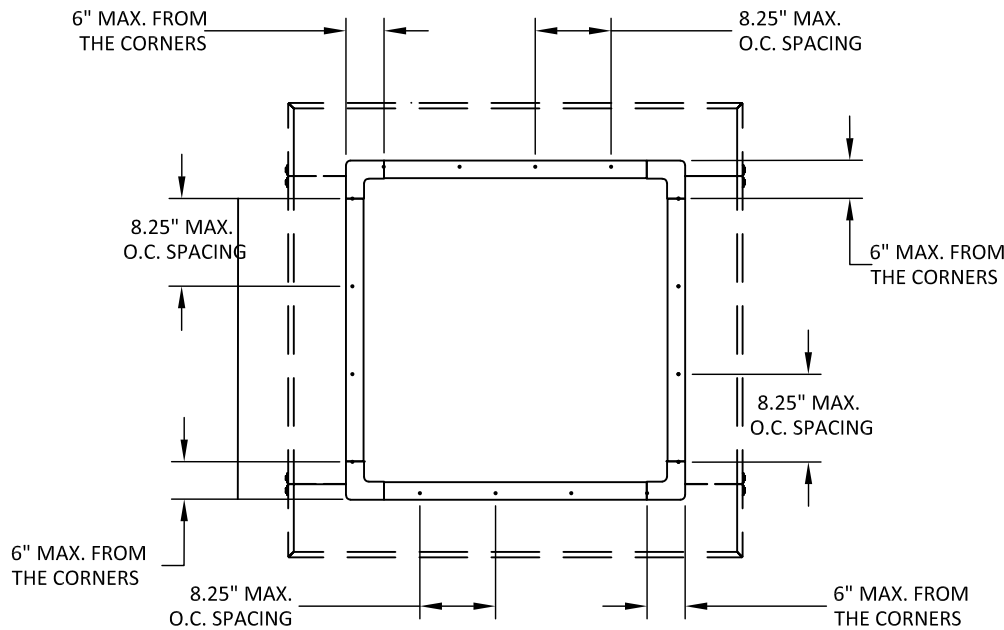
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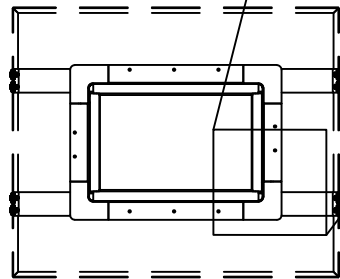
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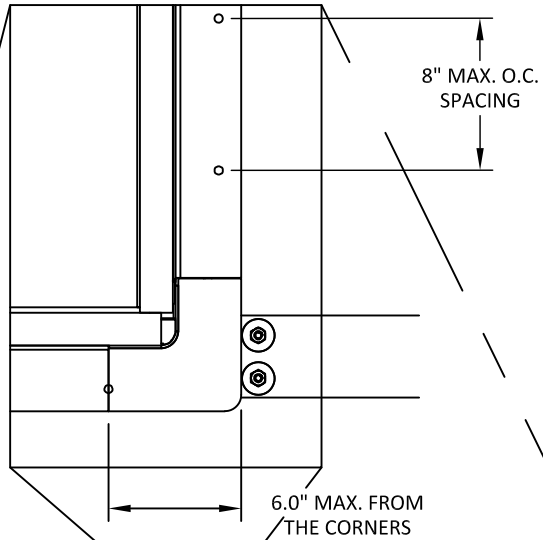
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ANCHOR LAYOUT
MEGA VAULT



ANCHOR LAYOUT
MEDIUM VAULT



ANCHOR LAYOUT
SMALL VAULT

ALUMINUM FLANGE
ANCHORING



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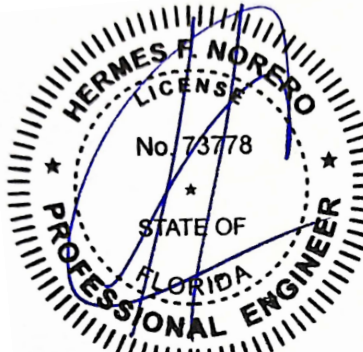
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ANCHOR LAYOUTS

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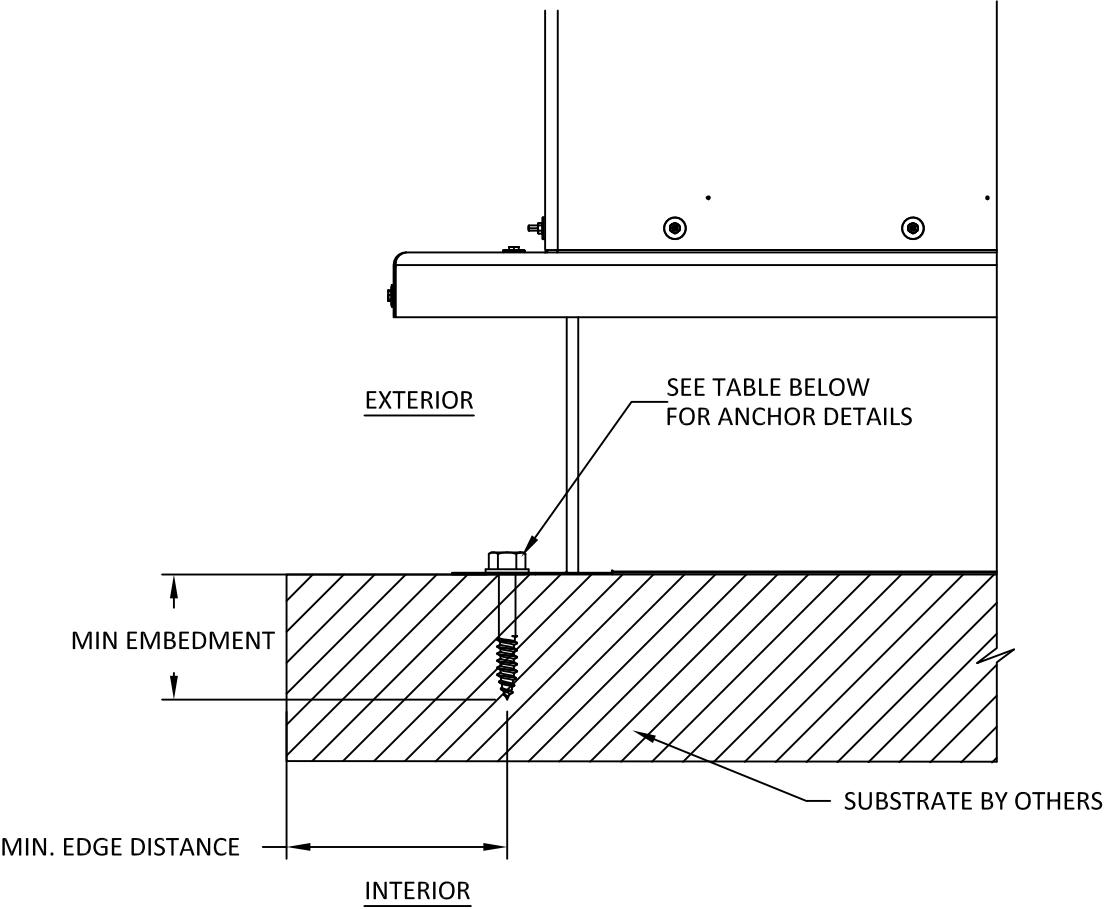
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INSTALLATION NOTES:

- ONE INSTALLATION ANCHOR ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/4$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

A
6 **ANCHOR DETAIL**
TYP. INSTALLATION

ANCHOR SCHEDULE			
SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD: MIN. SG = 0.55	5/16" DEWALT ULTRACON	1.50"	1.5625"
METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	3/8" SELF DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND METAL	0.50"
CONCRETE: f'c=3000PSI	3/8" DEWALT SCREW BOLT+	2.50"	4.00"
MASONRY: CMU per ASTM C90 MIN. 2000 PSI			



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INSTALLATION DETAILS

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BUILDING DROPS

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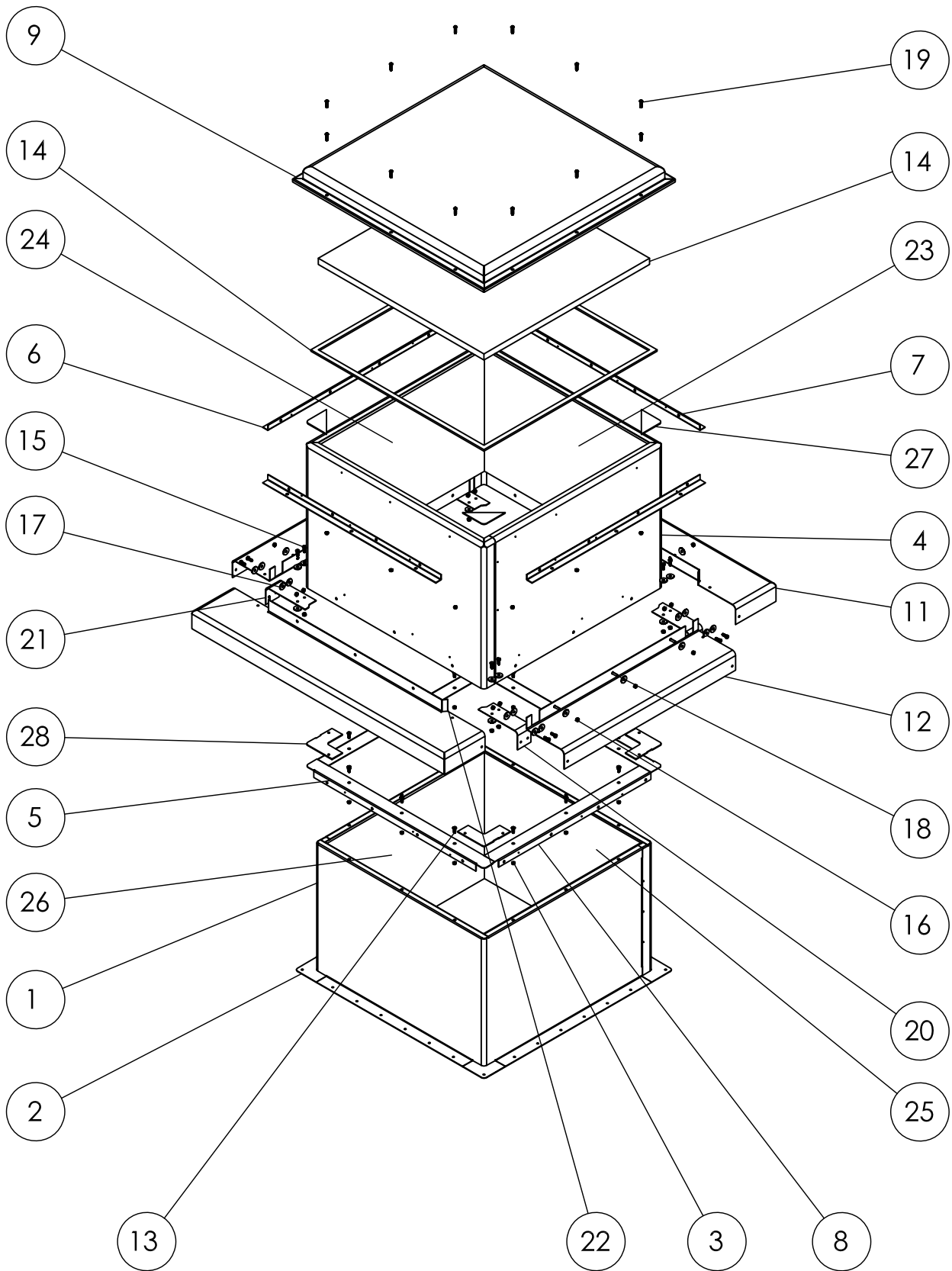
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SHEET:
6

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BILL OF MATERIALS			
ITEM	PART NO.	DESCRIPTION	QTY
1	201009	CURB HALF - AWI TYPE D	2
2	200095	CURB CORNER FILLER	4
3	700003	CLINCH NUT -1/4-20"-STAINLESS - PEM	24
4	201079	HOUSING HALF BODY -AWI TYPE D	2
5	201077	INNER RAIL LONG - AWI TYPE D	2
6	201073	UPPER RAIL SHORT - AWI TYPE D	2
7	201080	UPPER RAIL LONG - AWI TYPE D	2
8	201078	INNER RAIL SHORT - AWI TYPE D	2
9	201054	COVER - AWI TYPE D	1
10	201087	INSULATION PAINTED COVER - AWI TYPE D	1
11	201095	ICE WING - LONG - AWI TYPE D	2
12	201097	ICE WING - SHORT - AWI TYPE D	2
13	700002	PAN HEAD SCREW - 1/4 - 20 X 1- 1/2" SS - PHILIPS HEAD	12
14	700026	LOA GASKET 0.75" X 0.25"	1
15	700033	18-8 STAINLESS STEEL HEX HEAD SCREW- 1/4-20 X 1/2"	16
16	700027	18-8 STAINLESS STEEL HEX NUT- 1/4-20	28
17	700005	18-8 STAINLESS STEEL BONDED SEALING WASHER	44
18	700034	PEM STUD-1/4-20 X 3/4" - SS	12
19	700004	18-8 STAINLESS STEEL SCREW	12
20	200696	SPLICE PLATE_A	2
21	200699	SPLICE PLATE_B	2
22	200798	ICE WING-FILLER PLATE	4
23	201083	INSULATION HOUSING - LONG SIDE - AWI TYPE D	2
24	201084	INSULATION HOUSING - SHORT SIDE - AWI TYPE D	2
25	201088	INSULATION CURB - LONG SIDE - AWI TYPE B	2
26	201089	INSULATION HOUSING - SHORT SIDE - AWI TYPE B	2
27	800328	GUSSET	4
28	800329	GUSSET PLATE	4
29	700105	SEALING TAPE - ETERNABOND	LENGTH OF VERTICAL SEAM ON EACH SIDE + 2"
30	700106	CAULK - SILICONE - CLEAR - INCH	INTERIOR CIRCUMFERENCE OF HOUSING



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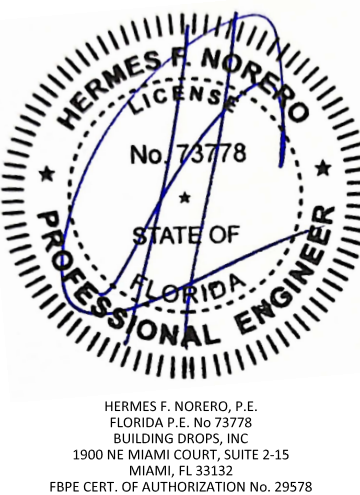
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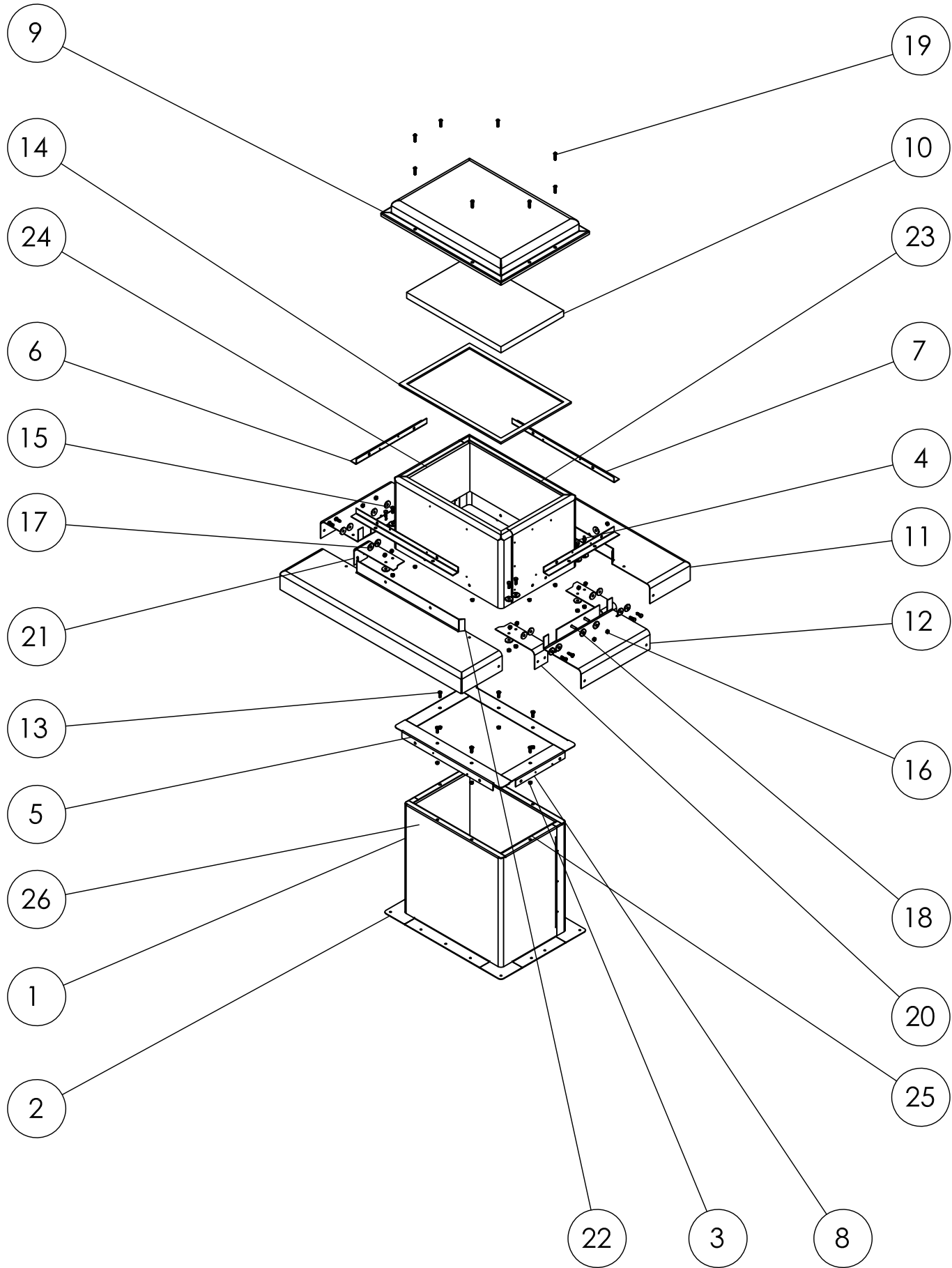
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SCALE: **NTS**

DWG. #: **JMC001**

SHEET: **7**

BILL OF MATERIALS			
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1	237109	CURB HALF - AWI TYPE B	2
2	200095	CURB CORNER FILLER	4
3	700003	CLINCH NUT -1/4-20"-STAINLESS – PEM	14
4	237179	HOUSING HALF BODY -AWI TYPE B	2
5	237177	INNER RAIL LONG - AWI TYPE B	2
6	237173	UPPER RAIL SHORT - AWI TYPE B	2
7	237180	UPPER RAIL LONG - AWI TYPE B	2
8	237178	INNER RAIL SHORT - AWI TYPE B	2
9	237154	COVER - AWI TYPE B	1
10	237187	INSULATION PAINTED COVER - AWI TYPE B	1
11	237195	ICE WING - LONG - AWI TYPE D	2
12	237197	ICE WING - SHORT - AWI TYPE D	2
13	700002	PAN HEAD SCREW - 1/4 - 20 X 1- 1/2" SS - PHILIPS HEAD	6
14	700026	LOA GASKET 0.75" X 0.25"	1
15	700033	18-8 STAINLESS STEEL HEX HEAD SCREW- 1/4-20 X 1/2"	16
16	700027	18-8 STAINLESS STEEL HEX NUT- 1/4-20	24
17	700005	18-8 STAINLESS STEEL BONDED SEALING WASHER	40
18	700034	PEM STUD-1/4-20 X 3/4" - SS	8
19	700004	18-8 STAINLESS STEEL SCREW	8
20	200696	SPLICE PLATE_A	2
21	200699	SPLICE PLATE_B	2
22	200798	ICE WING-FILLER PLATE	4
23	237183	INSULATION HOUSING - LONG SIDE - AWI TYPE B	2
24	237184	INSULATION HOUSING - SHORT SIDE - AWI TYPE B	2
25	237188	INSULATION CURB - LONG SIDE - AWI TYPE B	2
26	237189	INSULATION HOUSING - SHORT SIDE - AWI TYPE B	2
27	700105	SEALING TAPE - ETERNABOND	LENGTH OF VERTICAL SEAM ON EACH SIDE + 2"
28	700106	CAULK - SILICONE - CLEAR - INCH	INTERIOR CIRCUMFERENCE OF HOUSING



RPH ADVANCED BUILDING SOLUTIONS
935 ISOM ROAD
SAN ANTONIO, TX, 78216
PH: 1-800-994-0945

TITLE:
AW SERIES ROOF VAULTS
(HVHZ) (IMPACT)

MEDIUM VAULT BILL OF MATERIALS

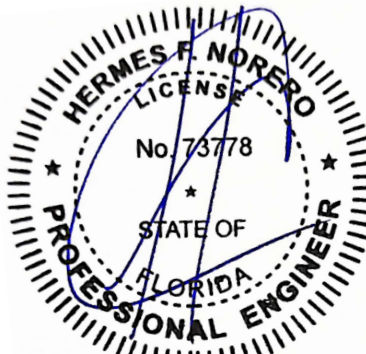
PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC
AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC
SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE
FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.

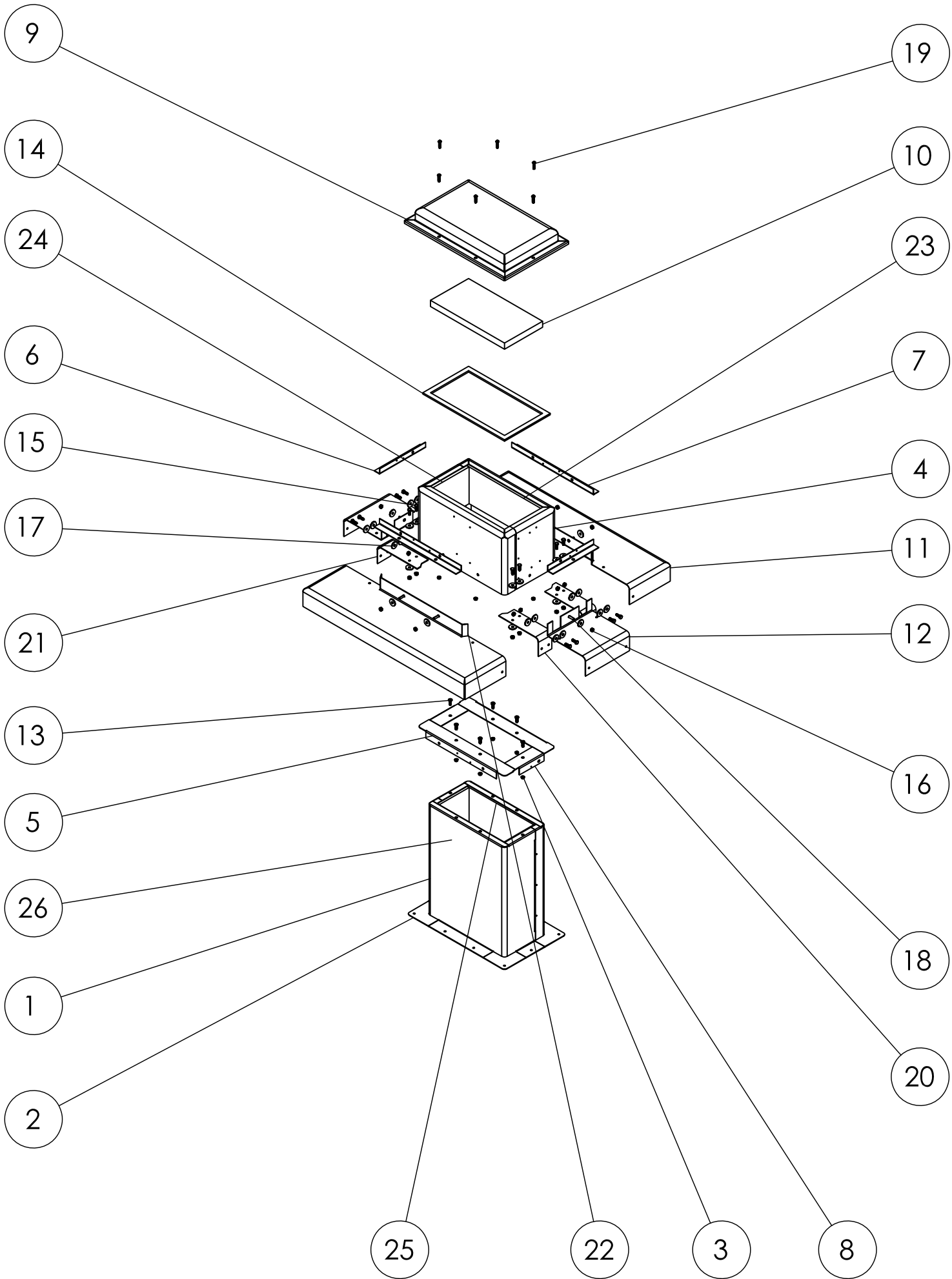


HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL47590	
DATE:	06.03.2025	
DWG. BY:	HJ	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	JMC001	
SHEET:	8	

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BILL OF MATERIALS			
ITEM	PART NO.	DESCRIPTION	QTY
1	236909	CURB HALF - AWI TYPE A	2
2	200095	CURB CORNER FILLER	4
3	700003	CLINCH NUT -1/4-20"-STAINLESS - PEM	12
4	236979	HOUSING HALF BODY -AWI TYPE B	2
5	236977	INNER RAIL LONG - AWI TYPE A	2
6	236973	UPPER RAIL SHORT - AWI TYPE A	2
7	236980	UPPER RAIL LONG - AWI TYPE A	2
8	236978	INNER RAIL SHORT - AWI TYPE A	2
9	236954	COVER - AWI TYPE A	1
10	236987	INSULATION PAINTED COVER - AWI TYPE A	1
11	236995	ICE WING - LONG - AWI TYPE A	2
12	236997	ICE WING - SHORT - AWI TYPE A	2
13	700002	PAN HEAD SCREW - 1/4 - 20 X 1- 1/2" SS - PHILIPS HEAD	6
14	700026	LOA GASKET 0.75" X 0.25"	1
15	700033	18-8 STAINLESS STEEL HEX HEAD SCREW- 1/4-20 X 1 1/2"	16
16	700027	18-8 STAINLESS STEEL HEX NUT- 1/4-20	22
17	700005	18-8 STAINLESS STEEL BONDED SEALING WASHER	38
18	700034	PEM STUD-1/4-20 X 3/4" - SS	6
19	700004	18-8 STAINLESS STEEL SCREW	6
20	200696	SPLICE PLATE_A	2
21	200699	SPLICE PLATE_B	2
22	200798	ICE WING-FILLER PLATE	4
23	236983	INSULATION HOUSING - LONG SIDE - AWI TYPE A	2
24	236984	INSULATION HOUSING - SHORT SIDE - AWI TYPE A	2
25	236988	INSULATION CURB - LONG SIDE - AWI TYPE A	2
26	236989	INSULATION HOUSING - SHORT SIDE - AWI TYPE A	2
29	700105	SEALING TAPE - ETERNABOND	LENGTH OF VERTICAL SEAM ON EACH SIDE + 2"
30	700106	CAULK - SILICONE - CLEAR - INCH	INTERIOR CIRCUMFERENCE OF HOUSING



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SAN ANTONIO, TX, 78216
PH: 1-800-994-0945

TITLE:
AW SERIES ROOF VAULTS
(HVHZ) (IMPACT)

SMALL VAULT BILL OF MATERIALS

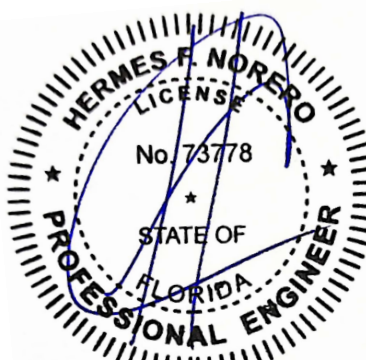
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