



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Air System Components, Inc. dba PennBarry
605 Shiloh Road
Plano, TX 75074

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) reserve 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: iPlume Laboratory Steel Exhaust Fan

APPROVAL DOCUMENT: Drawing No. **16605826**, titled "iPlume", sheets 1 through 12 of 12, dated 09/05/2025, prepared by Air System Components, Inc. dba PennBarry, signed and sealed by Gary Hartman, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Lebanon, IN, 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 consists of this page 1 and evidence page E-1, as well as the approval document mentioned above. The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**




09/17/25

NOA No. 24-1011.02
Expiration Date: September 25, 2030
Approval Date: September 25, 2025
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **16605826**, titled “iPlume”, sheets 1 through 12 of 12, dated 09/05/2025, prepared by Air System Components, Inc. dba PennBarry, signed and sealed by Gary Hartman, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Tensile Strength Test per ASTM E8
4) Lateral Force Resistance per ASTM E72 (Modified).
along with marked-up drawings and installation diagram of iPlume-365 Lab Exhaust Fan, prepared by Intertek, Test Report No. **P7124.01-801-18 R2**, dated 09/12/2024, reissued on 09/04/2025, signed and sealed by Tyler Westerling, P.E.

C. CALCULATIONS

1. Analysis and calculations, prepared by ICC NTA, LLC, dated 06/25/2025, signed and sealed by Gary T. Hartman, P.E.

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 8th edition (2023) of the FBC and of no financial interest, issued by ICC-NTA, LLC, dated 09/08/2025, signed and sealed by Gary Hartman, P.E.

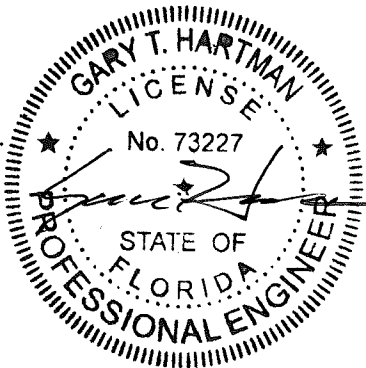


Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-1011.02
Expiration Date: September 25, 2030
Approval Date: September 25, 2025

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	ENGINEERING REVISION	06/18/2025	-

NOTES -

1. THIS PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD AND METAL FRAMING AND CONCRETE OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND CONCRETE OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
6. FOR ANCHORING INTO WOOD FRAMING USE 5/8" LAG SCREWS WITH MIN. 6" EMBEDMENT , 3 5/16" THREAD ENGAGEMENT, 2 1/2" EDGE DISTANCE, AS SHOWN ON SHEET 11.
7. FOR ANCHORING INTO CONCRETE USE HILTI KWIK BOLT TZ2'S WITH SUFFICIENT LENGTH TO ACHIEVE A 4 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE
REFER TO SHEET 12 FOR ANCHOR DIAMETERS AND MIN. EDGE DISTANCES.
8. FOR ANCHORING INTO METAL STRUCTURE USE 1/2-13 DIA THRU-BOLTS OR 5/16" SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 5/16" MINIMUM THREAD PENETRATION BEYOND STRUCTURE
INTERIOR WALL. LOCATE ANCHORS AS SHOWN ON SHEET 11.
9. ALL FASTENERS TO BE CORROSION RESISTANT. UNLESS OTHERWISE NOTED, ANCHORS SHALL BE 300 SERIES S/S, CONDITION CW, Fu = 45 ksi.
10. THIS APPROVAL IS FOR STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND / OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
11. UNITS WERE NOT TESTED FOR WATER PENETRATION PER FBC, TAS 100(A).
12. 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 BELOW -
 - WOOD - MINIMUM SPECIFIC GRAVITY OF G = 0.5
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. (E.O.R. / ARCH. SHALL DETERMINE IF CONCRETE IS TO BE CONSIDERED CRACKED OR UN-CRACKED.)
 - METAL STRUCTURE: STEEL 5/16" THICK, 36KSI OR ALUMINUM 6063-T5 5/16" THICK MINIMUM.

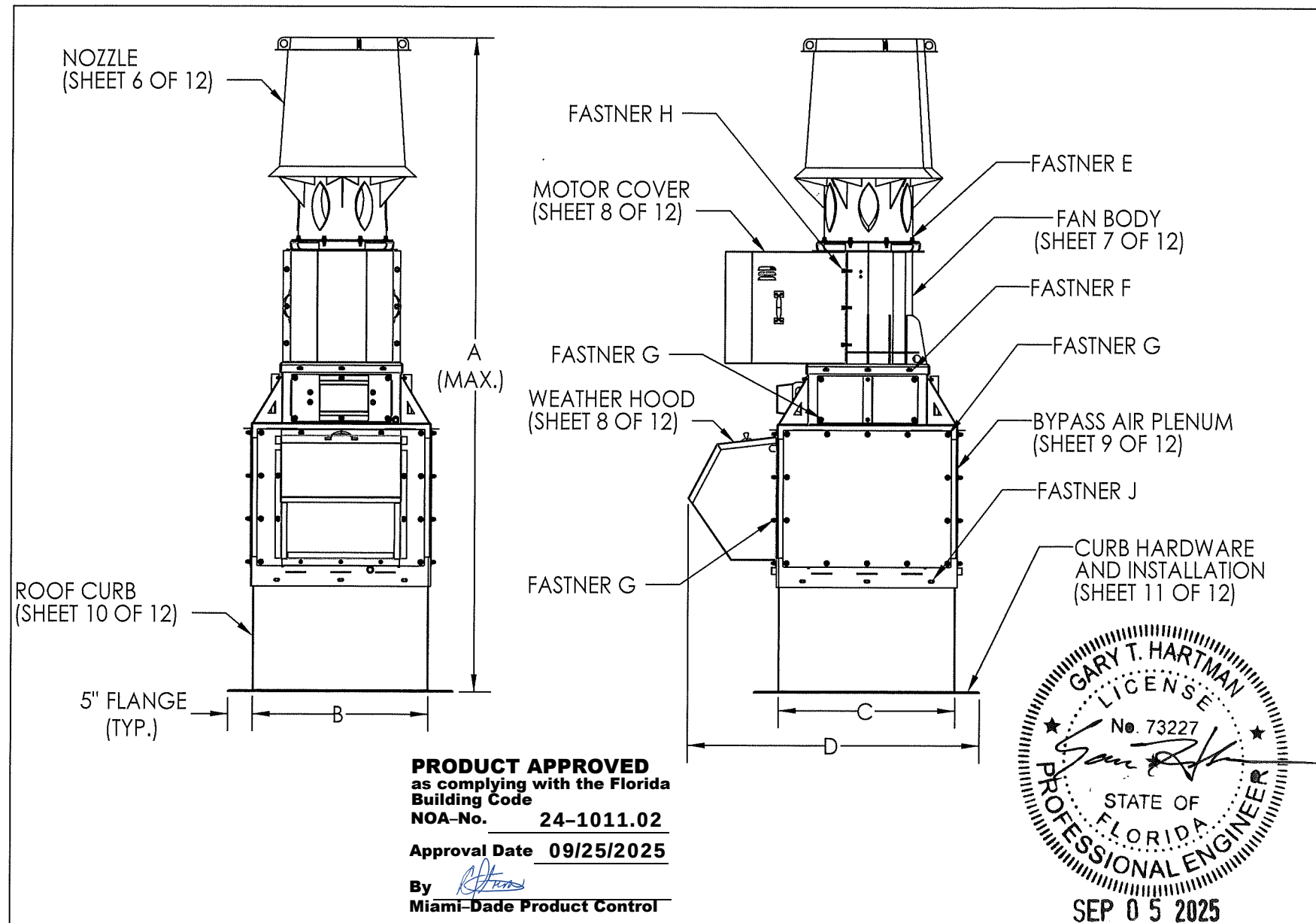


SEP 05 2025

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. **24-1011.02**
Approval Date **09/25/2025**
By 
Miami-Dade Product Control

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SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
1	GENERAL NOTES	7	FAN BODY
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3	2X1 ASSEMBLY	9	BYPASS AIR PLENUMS
4	3X1 ASSEMBLY	10	ROOF CURB
5	NO PLENUM	11	ROOF CURB INSTALLATION
6	NOZZLE	12	ANCHORAGE SCHEDULE

PennBarry 605 Shiloh RD Plano, TX 75074			
iPLUME GENERAL NOTES			
DRAWN:	DWG NO.		REV
YOGESH	16605826		B
SCALE	DATE	SHEET	
NTS	11/25/2021	1 OF 12	



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	ENGINEERING REVISION	06/18/2025	-

UNIT	A (MAX)	B	C	D	WEIGHT (LBS)
iPLUME-122	131.76	35.64	35.64	59.06	1564
iPLUME-135	138.73	38.64	38.64	62.06	1710
iPLUME-150	146.69	44.64	44.64	68.06	1987
iPLUME-165	147.61	45.64	45.64	69.06	2133
iPLUME-182	162.46	52.64	52.64	78.17	2873
iPLUME-200	170.84	56.64	56.64	82.19	3138
iPLUME-222	181.97	60.64	60.64	86.19	3487
iPLUME-245	179.95	61.64	61.64	87.19	3612
iPLUME-270	187.96	64.73	64.73	90.23	3821
iPLUME-300	206.89	70.73	70.73	98.34	4453
iPLUME-330	219.98	77.73	77.73	105.34	4990
iPLUME-365	217.52	80.73	80.73	108.44	5662

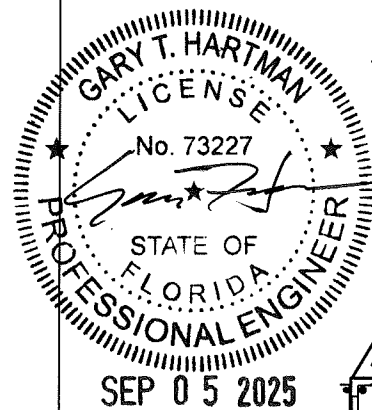
ALL DIMENSIONS ARE IN INCHES
WEIGHT DO NOT INCLUDE
MOTOR, DRIVE AND DAMPERS

DESIGN LIMITS	
MAX. DESIGN LOAD:	+/- 140 psf (6.7 Kpa)
MAX. OVERALL ENCLOSURE:	80.73 x 108.44 IN. (2051 x 2755 MM)
MAX. OVERALL UNIT HEIGHT:	218 IN. (5537 MM)

- NOTES:
- UNITS TESTED FOR TAS-201 (LARGE MISSILE IMPACT) & TAS-202 (STATIC LOADING).
 - DESIGN PRESSURE = +/- 140 PSF.
 - DESIGN, TESTING AND INSTALLATION CONFORMS TO FLORIDA BUILDING CODE.
 - UNITS NOT TESTED FOR WATER PENETRATION PER FBC, TAS 100(A)
 - THIS APPROVAL IS FOR STRUCTURAL PERFORMANCE & IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.

	FASTNER E		FASTNER F		FASTNER G			FASTNER H		FASTNER J	
UNIT	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	
iPLUME-122	HHCS 3/8-16 1.50 STN NUT HEX 3/8-16 SST	8	HHCS 3/8-16 1.50 STN	12	NUT HEX 3/8-16 SST	84	TEK SCREW 1/4-20 0.75 ZP WASHER FLAT 3/8"IDX1"OD SST WASHER SPRG 1/4"IDX5/8"OD LK SST	6	SCR, TCS, IHWH,0.313- 18x1.5, TYP-23, MECH ZP	12	
iPLUME-135										20	
iPLUME-150											
iPLUME-165											
iPLUME-182	12	WASHER FLAT 3/8"IDX1"OD SST WASHER SPRG 3/8"IDX11/16"OD LK SST	16	WASHER FLAT 3/8"IDX1"OD SST WASHER SPRG 3/8"IDX11/16"OD LK SST	92	100	108	116	8		28
iPLUME-200											
iPLUME-222											
iPLUME-245											
iPLUME-270	3/8"IDX11/16"O D LK SST	16	20	24	134	3/8"X11/16" LK SST	8				
iPLUME-300											
iPLUME-330											
iPLUME-365											

PennBarry 605 Shiloh RD Plano, TX 75074		
iPLUME 1 X 1 ASSEMBLY		
DRAWN: YOGESH	DWG NO. 16605826	REV B
SCALE NTS	DATE 11/25/2021	SHEET 2 OF 12



UNIT	A (MAX)	B	C	D	WEIGHT (LBS)
iPLUME-122	131.76	72.14	35.64	59.06	2814
iPLUME-135	138.73	78.14	38.64	62.06	3084
iPLUME-150	146.69	90.14	44.64	68.06	3696
iPLUME-165	147.61	92.14	45.64	69.06	3881
iPLUME-182	162.46	106.14	52.64	78.17	5287
iPLUME-200	170.84	114.14	56.64	82.19	5762
iPLUME-222	181.97	122.14	60.64	86.19	6430
iPLUME-245	179.95	124.14	61.64	87.19	6697
iPLUME-270	187.96	130.23	64.73	90.23	7138
iPLUME-300	206.89	142.23	70.73	98.34	8355
iPLUME-330	219.98	156.23	77.73	105.34	9371
iPLUME-365	217.52	162.23	80.73	108.44	10753

ALL DIMENSIONS ARE IN INCHES
WEIGHT DO NOT INCLUDE
MOTOR, DRIVE AND DAMPERS

DESIGN LIMITS	
MAX. DESIGN LOAD:	+/- 140 psf (6.7 Kpa)
MAX. OVERALL ENCLOSURE:	162.23 x 108.44 IN. (4121 x 2755 MM)
MAX. OVERALL UNIT HEIGHT:	218 IN. (5537 MM)

NOTES:

1. UNITS TESTED FOR TAS-201 (LARGE MISSILE IMPACT) & TAS-202 (STATIC LOADING).
2. DESIGN PRESSURE = +/- 140 PSF
3. DESIGN, TESTING AND INSTALLATION CONFORMS TO FLORIDA BUILDING CODE
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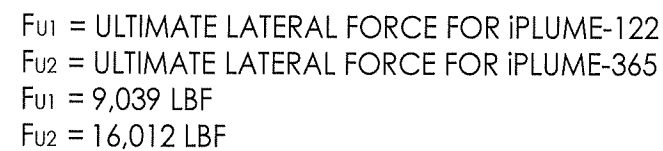
UNIT	FASTNER E		FASTNER F		FASTNER G		FASTNER H		FASTNER J		
	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY (SHORT SIDE)	QTY (LONG SIDE)
iPLUME-122	HHCS 3/8-16 1.50 STN NUT HEX 3/8-16 SST	16	HHCS 3/8-16 1.50 STN WASHER FLAT 3/8"IDX1"OD SST WASHER SPRG 3/8"IDX11/16"OD LK SST	24	NUT HEX 3/8-16 SST WASHER FLAT 3/8"IDX1"OD SST WASHER SPRG 3/8"IDX11/16"OD LK SST	140	TEK SCREW 1/4-20 0.75 ZP	12	SCR, TCS, IHHW,0.313- 18x1.5, TYP-23, MECH ZP	5	5
iPLUME-135							WASHER FLAT 3/8"IDX1"OD SST			5	10
iPLUME-150							WASHER SPRG 3/8"IDX1"OD SST			5	10
iPLUME-165							TEK SCREW 3/8-16 1.0 ZP			5	10
iPLUME-182	24	32	3/8"IDX11/16"OD LK SST	40	212	WASHER FLAT 3/8"IDX1"OD SST	16	5		10	
iPLUME-200						WASHER SPRG 3/8"IDX11/16"OD		5		10	
iPLUME-222						TEK SCREW 3/8-16 1.0 ZP		5		10	
iPLUME-245						WASHER FLAT 3/8"IDX1"OD SST		7		14	
iPLUME-270	32	48	3/8"IDX11/16"OD LK SST	228	3/8"IDX11/16"OD LK SST	16	7	14			
iPLUME-300					WASHER SPRG 3/8"IDX11/16"OD		7	16			
iPLUME-330					TEK SCREW 3/8-16 1.0 ZP		7	16			
iPLUME-365					WASHER FLAT 3/8"IDX1"OD SST		7	16			

PennBarry 605 Shiloh RD Plano, TX 75074

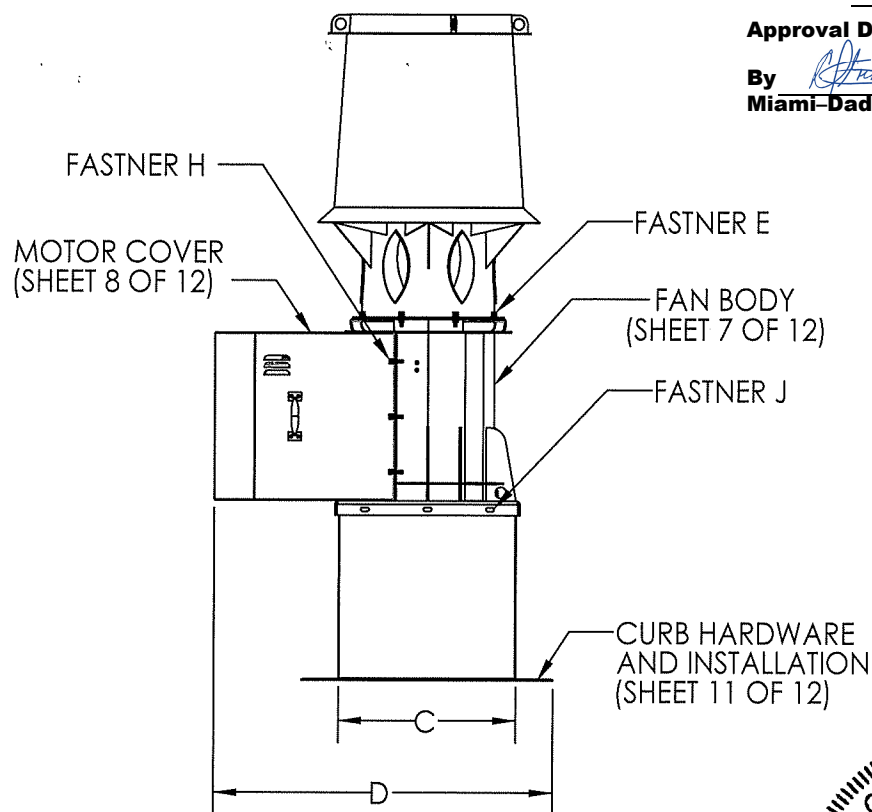
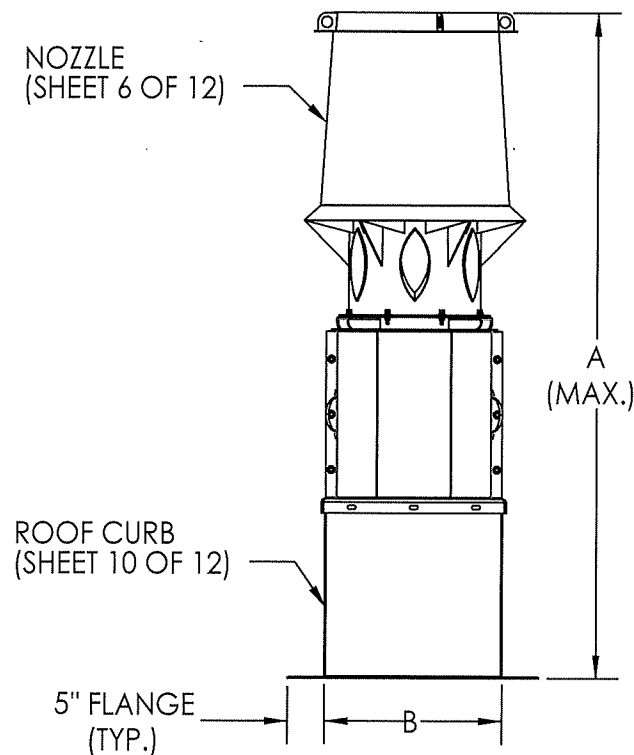
iPLUME 2 X 1 ASSEMBLY

DRAWN: YOGESH	DWG NO. 16605826	REV B
SCALE NTS	DATE 11/25/2021	SHEET 3 OF 12

By *[Signature]*
Miami-Dade Product Control



DRAWN: YOGESH	DWG NO. 16605826	REV B
SCALE NTS	DATE 11/25/2021	SHEET 4 OF 12



PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. **24-1011.02**
Approval Date **09/25/2025**
By *[Signature]*
Miami-Dade Product Control

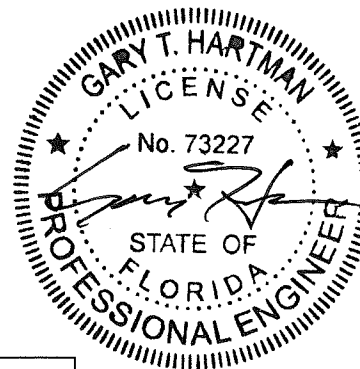
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	ENGINEERING REVISION	06/18/2025	-

UNIT	A (MAX)	B	C	D	WEIGHT (LBS)
iPLUME-122	89.75	24.00	24.00	45.93	714
iPLUME-135	96.71	26.00	26.00	46.73	797
iPLUME-150	104.68	28.00	28.00	52.85	925
iPLUME-165	105.60	30.00	30.00	54.42	998
iPLUME-182	114.40	33.00	33.00	56.85	1155
iPLUME-200	122.79	36.00	36.00	59.61	1338
iPLUME-222	133.91	39.00	39.00	64.47	1556
iPLUME-245	129.18	42.00	42.00	67.58	1692
iPLUME-270	139.90	45.00	45.00	73.02	1949
iPLUME-300	152.83	51.00	51.00	79.95	2352
iPLUME-330	165.95	55.00	55.00	84.05	2687
iPLUME-365	157.49	60.00	60.00	91.51	3240

ALL DIMENSIONS ARE IN INCHES
WEIGHT DO NOT INCLUDE
MOTOR, DRIVE AND DAMPERS

DESIGN LIMITS	
MAX. DESIGN LOAD:	+/- 140 psf (6.7 Kpa)
MAX. OVERALL ENCLOSURE:	60.00 x 91.51 IN. (1524 x 2325 MM)
MAX. OVERALL UNIT HEIGHT:	157.5 IN. (4001 MM)

- NOTES:
- UNITS TESTED FOR TAS-201 (LARGE MISSILE IMPACT) & TAS-202 (STATIC LOADING).
 - DESIGN PRESSURE = +/- 140 PSF
 - DESIGN, TESTING AND INSTALLATION CONFORMS TO FLORIDA BUILDING CODE
 - UNITS NOT TESTED FOR WATER PENETRATION PER FBC, TAS 100(A)
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SEP 05 2025

	FASTNER E		FASTNER H		FASTNER J			
UNIT	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY		
iPLUME-122	HHCS 3/8-16 1.50 STN NUT HEX 3/8-16 SST 2 x WASHER FLAT 3/8"IDX1"OD SST WASHER SPRG 3/8"IDX11/16"OD LK SST	8	TEK SCREW 1/4-20 0.75 ZP WASHER FLAT 3/8"IDX1"OD SST WASHER SPRG 1/4"IDX5/8"OD LK SST	6	SCR, TCS, IHWH,0.313- 18x1.5, TYP-23, MECH ZP	12		
iPLUME-135								
iPLUME-150		12				TEK SCREW 3/8-16 1.0 ZP WASHER FLAT 3/8"IDX1"OD SST WASHER SPRG 3/8"X11/16" LK SST	8	16
iPLUME-165								
iPLUME-182								
iPLUME-200								
iPLUME-222								
iPLUME-245								
iPLUME-270		16					20	
iPLUME-300								
iPLUME-330								
iPLUME-365								24

PennBarry 605 Shiloh RD Plano, TX 75074

**iPLUME
NO PLENUM**

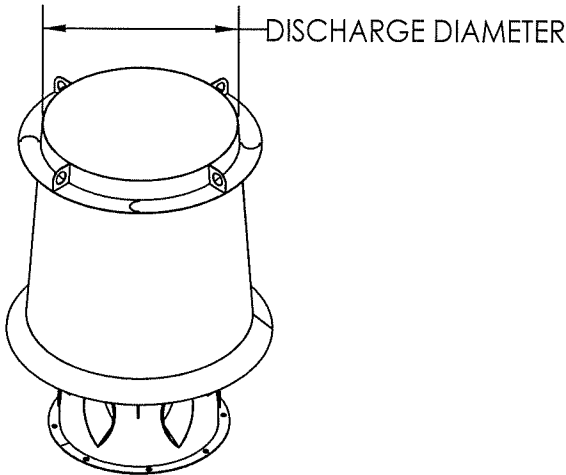
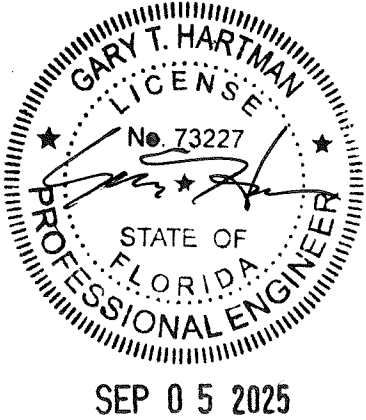
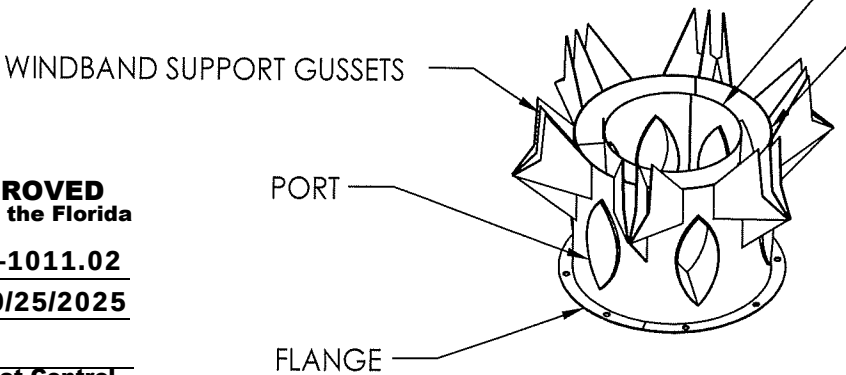
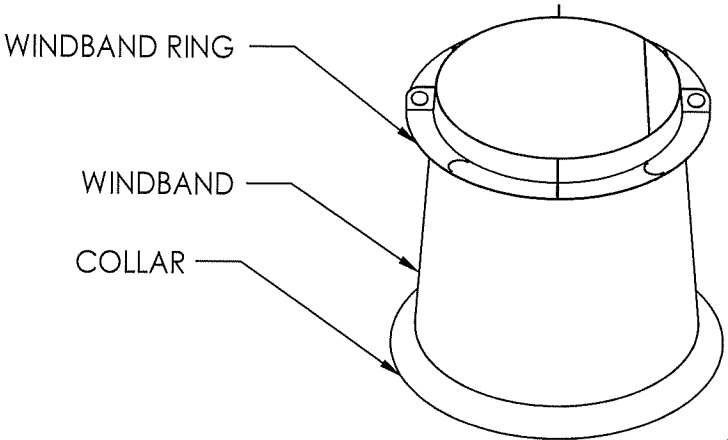
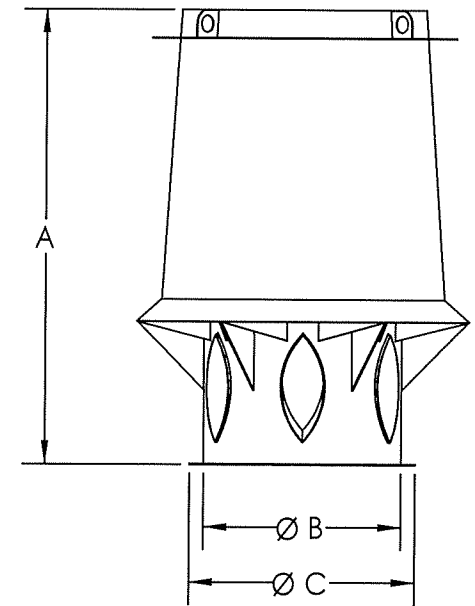
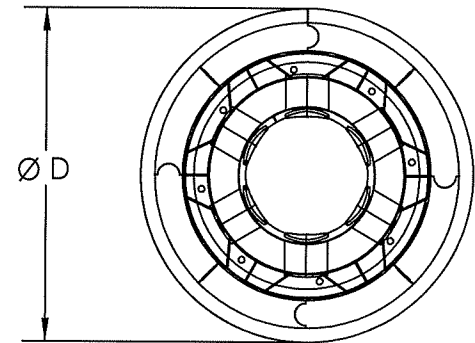
DRAWN: YOGESH	DWG NO. 16605826	REV B
SCALE NTS	DATE 11/25/2021	SHEET 5 OF 12

UNIT	A	B	C	D	MATERIAL						
					WINDBAND	WINDBAND RING	GUSSET	PORT	INNER CONE	OUTER CYLINDER	FLANGE
iPLUME-122	40.88	17.86	21.41	30.04	16 GA HRS	14 GA HRS	12 GA HRS	16 GA HRS	16 GA HRS	12 GA HRS	
iPLUME-135	45.17	19.72	22.29	33.10							
iPLUME-150	50.05	21.90	24.46	36.79							
iPLUME-165	47.88	23.40	25.95	40.61							
iPLUME-182	53.18	25.78	29.21	44.92							
iPLUME-200	57.87	28.30	31.74	49.17							
iPLUME-222	64.46	31.40	34.83	54.72							
iPLUME-245	55.00	34.64	38.06	53.54							
iPLUME-270	60.57	38.14	41.58	59.04							
iPLUME-300	67.33	42.36	46.92	65.54							
iPLUME-330	74.21	46.58	51.13	72.11							
iPLUME-365	58.54	51.48	55.93	67.36							

ALL DIMENSIONS ARE IN INCHES

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	ENGINEERING REVISION	06/18/2025	-

UNIT	Discharge Diameter offering			
	LV	MV	HV	XV
iPLUME-122	12.375	14.312	15.125	15.750
iPLUME-135	13.638	16.438	17.625	17.875
iPLUME-150	15.125	17.938	19.438	19.875
iPLUME-165	16.625	18.563	19.938	20.875
iPLUME-182	18.375	20.813	22.500	23.323
iPLUME-200	20.125	22.125	24.125	25.375
iPLUME-222	22.388	24.250	25.500	26.813
iPLUME-245	24.875	26.625	28.125	29.250
iPLUME-270	27.388	30.375	32.625	33.813
iPLUME-300	30.438	34.500	36.313	38.000
iPLUME-330	33.50	39.313	41.125	42.250
iPLUME-365	37.063	41.188	44.500	46.125



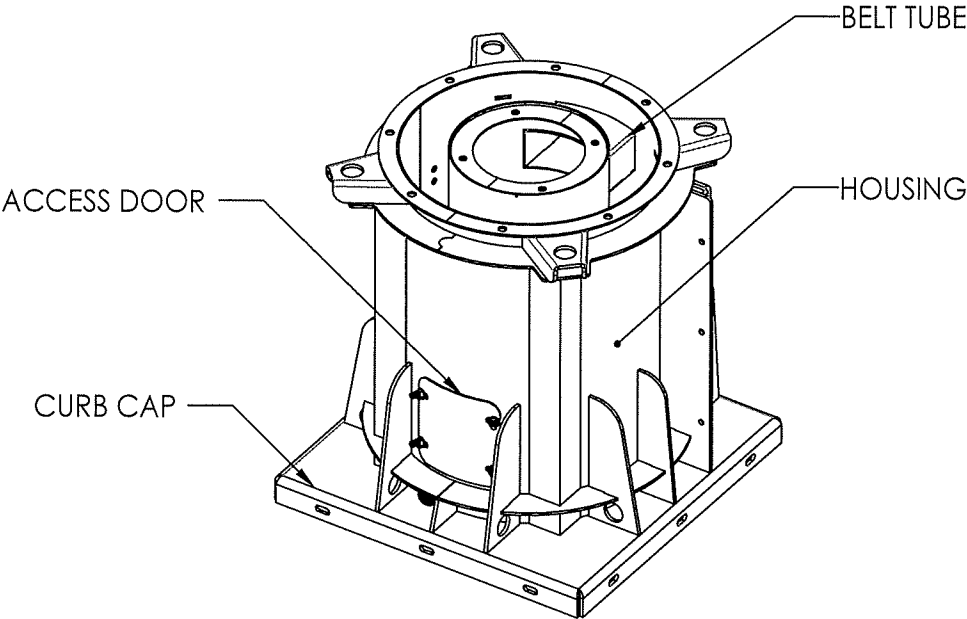
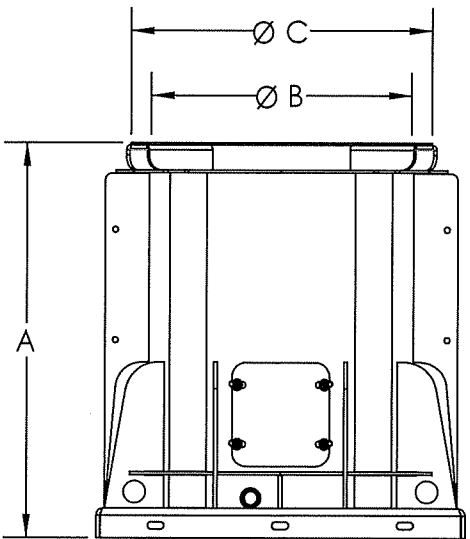
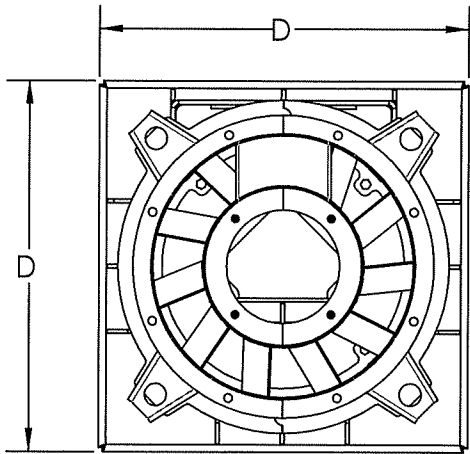
PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. **24-1011.02**
Approval Date **09/25/2025**
By *[Signature]*
Miami-Dade Product Control

PennBarry 605 Shiloh RD Plano, TX 75074			
iPLUME NOZZLE			
DRAWN: YOGESH	DWG NO. 16605826		REV B
SCALE NTS	DATE 11/25/2021	SHEET 6 OF 12	

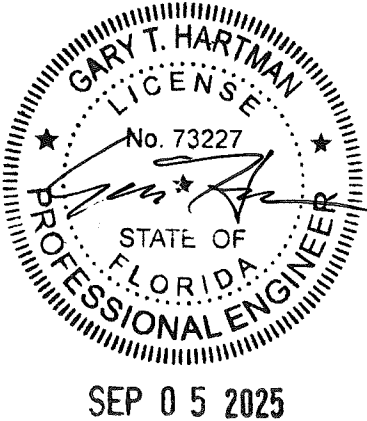
UNIT	A	B	C	D	MATERIAL		
					HOUSING	ACCESS DOOR	CURBCAP
iPLUME-122	26.62	17.64	20.41	25.00	10 GA. HRS	12 GA HRS	0.25" HRS
iPLUME-135	29.29	19.51	22.28	27.00			
iPLUME-150	32.38	21.68	24.45	29.00			
iPLUME-165	35.47	23.18	25.95	31.00			
iPLUME-182	38.97	25.57	29.21	34.00			
iPLUME-200	42.67	28.10	31.74	37.00			
iPLUME-222	47.20	31.20	34.83	40.00			
iPLUME-245	51.94	34.42	38.06	43.00			
iPLUME-270	57.08	37.93	41.58	46.00			
iPLUME-300	63.31	42.14	46.92	52.00			
iPLUME-330	69.49	46.36	51.13	56.00	7 GA HRS		
iPLUME-365	76.71	51.28	55.93	61.00			

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	ENGINEERING REVISION	06/18/2025	-

ALL DIMENSIONS ARE IN INCHES

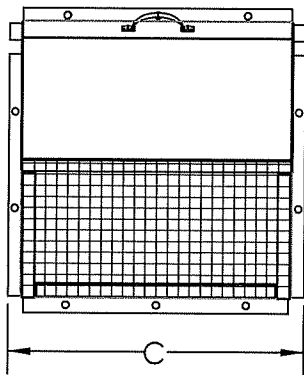
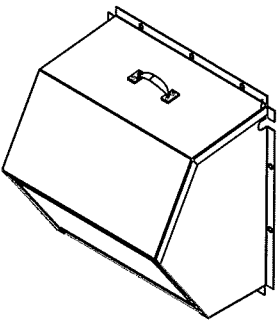


PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 24-1011.02
Approval Date 09/25/2025
By [Signature]
Miami-Dade Product Control

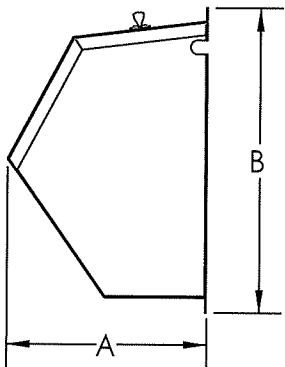


PennBarry 605 Shiloh RD Plano, TX 75074			
iPLUME FAN BODY			
DRAWN: YOGESH	DWG NO. 16605826	REV B	
SCALE NTS	DATE 11/25/2021	SHEET 7 OF 12	

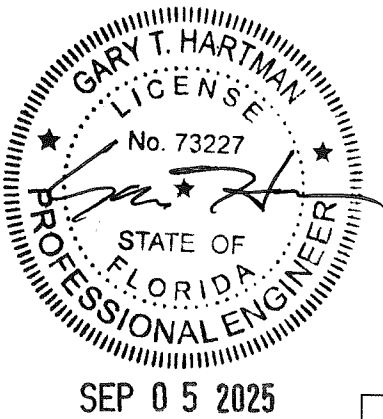
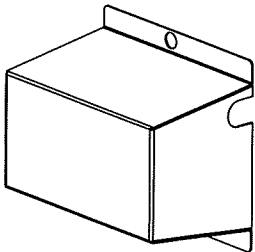
UNIT	A	B	C	MATERIAL PANELS/DOORS
iPLUME-122	17.99	27.38	26.72	14 GA HRS
iPLUME-135	17.99	27.38	28.72	
iPLUME-150	17.99	27.38	30.72	
iPLUME-165	17.99	27.38	32.72	
iPLUME-182	20.09	33.38	35.72	
iPLUME-200	20.09	33.38	38.72	
iPLUME-222	20.09	33.38	41.72	
iPLUME-245	20.09	33.38	44.72	
iPLUME-270	20.09	33.38	47.72	
iPLUME-300	22.2	39.38	53.72	
iPLUME-330	22.2	39.38	57.72	
iPLUME-365	22.3	45.38	62.72	



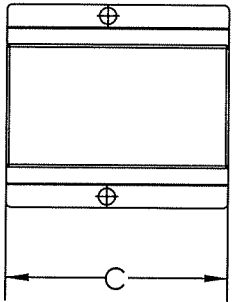
WEATHER HOOD



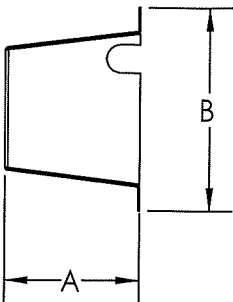
PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 24-1011.02
Approval Date 09/25/2025
By [Signature]
Miami-Dade Product Control



UNIT	A	B	C	MATERIAL ENCLOSURE
iPLUME-122	6.06	9.12	10.00	16 GA HRS
iPLUME-135	6.06	9.12	10.00	
iPLUME-150	6.06	9.12	10.00	
iPLUME-165	6.06	9.12	10.00	
iPLUME-182	6.06	9.12	10.00	
iPLUME-200	6.06	9.12	10.00	
iPLUME-222	6.06	9.12	10.00	
iPLUME-245	6.06	9.12	10.00	
iPLUME-270	6.06	9.12	10.00	
iPLUME-300	6.06	9.12	10.00	
iPLUME-330	6.06	9.12	10.00	
iPLUME-365	6.06	9.12	10.00	

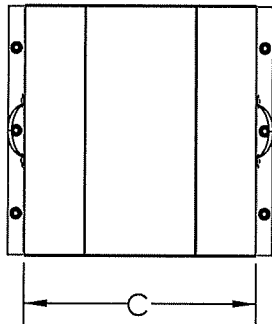
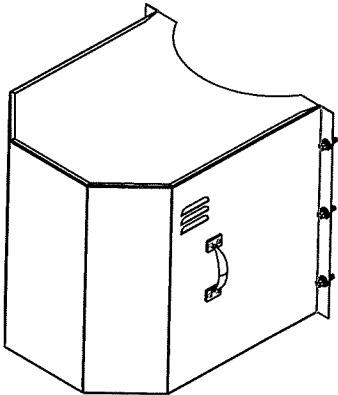


ACTUATOR ENCLOSURE

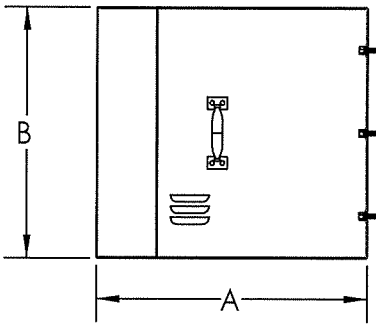


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	ENGINEERING REVISION	06/18/2025	-

UNIT	A	B	C	MATERIAL PANELS
iPLUME-122	24.42	22.56	20.88	18 GA GALV
iPLUME-135	25.05	25.24	23.00	
iPLUME-150	28.89	28.33	27.50	
iPLUME-165	28.93	31.42	27.50	
iPLUME-182	29.01	29.16	27.50	
iPLUME-200	29.37	31.23	27.50	
iPLUME-222	31.63	35.23	32.00	
iPLUME-245	32.04	35.23	32.00	
iPLUME-270	35.78	39.23	35.50	
iPLUME-300	38.22	40.23	38.50	
iPLUME-330	38.82	42.23	40.50	
iPLUME-365	41.76	45.23	45.00	

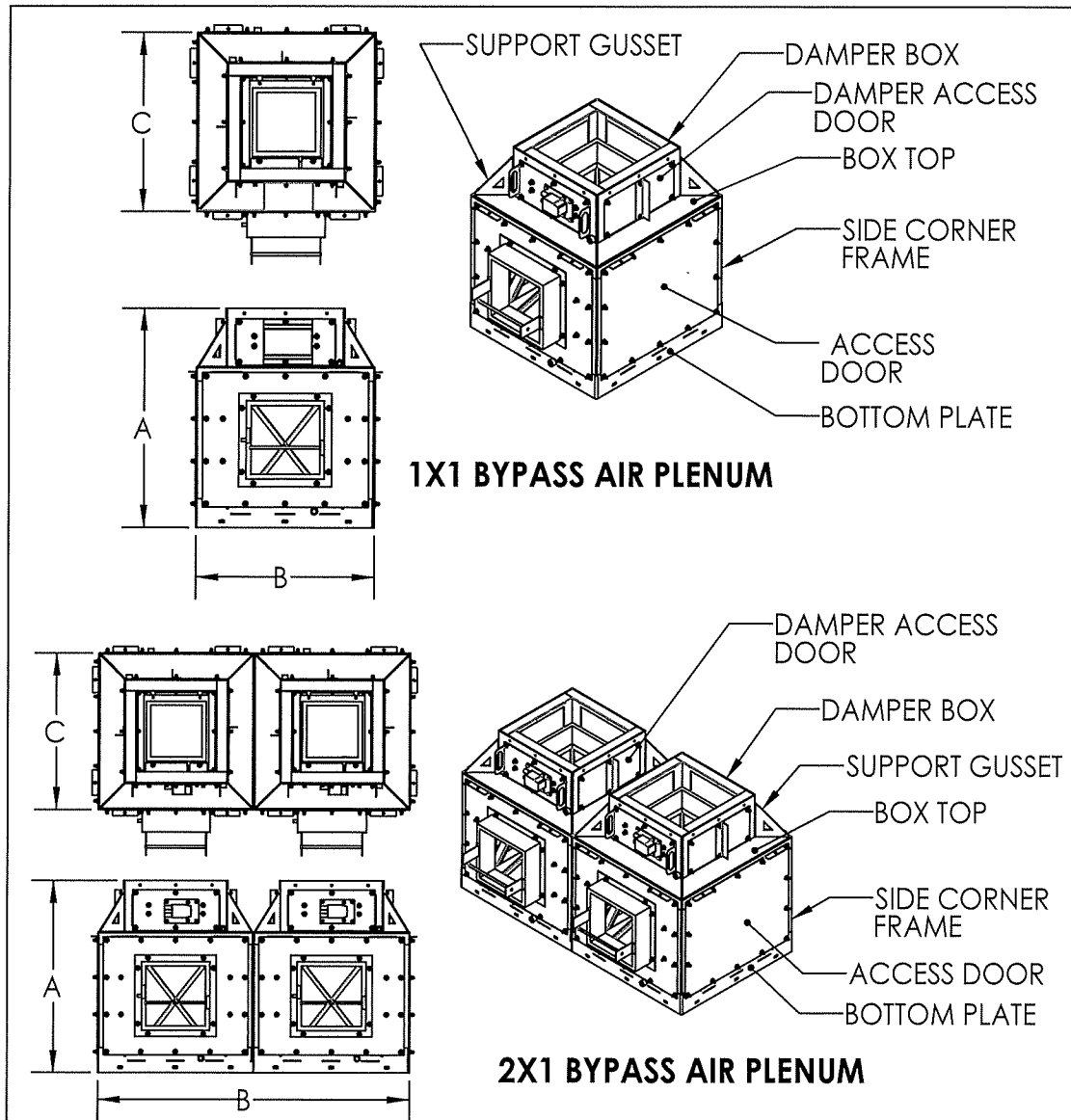


MOTOR COVER



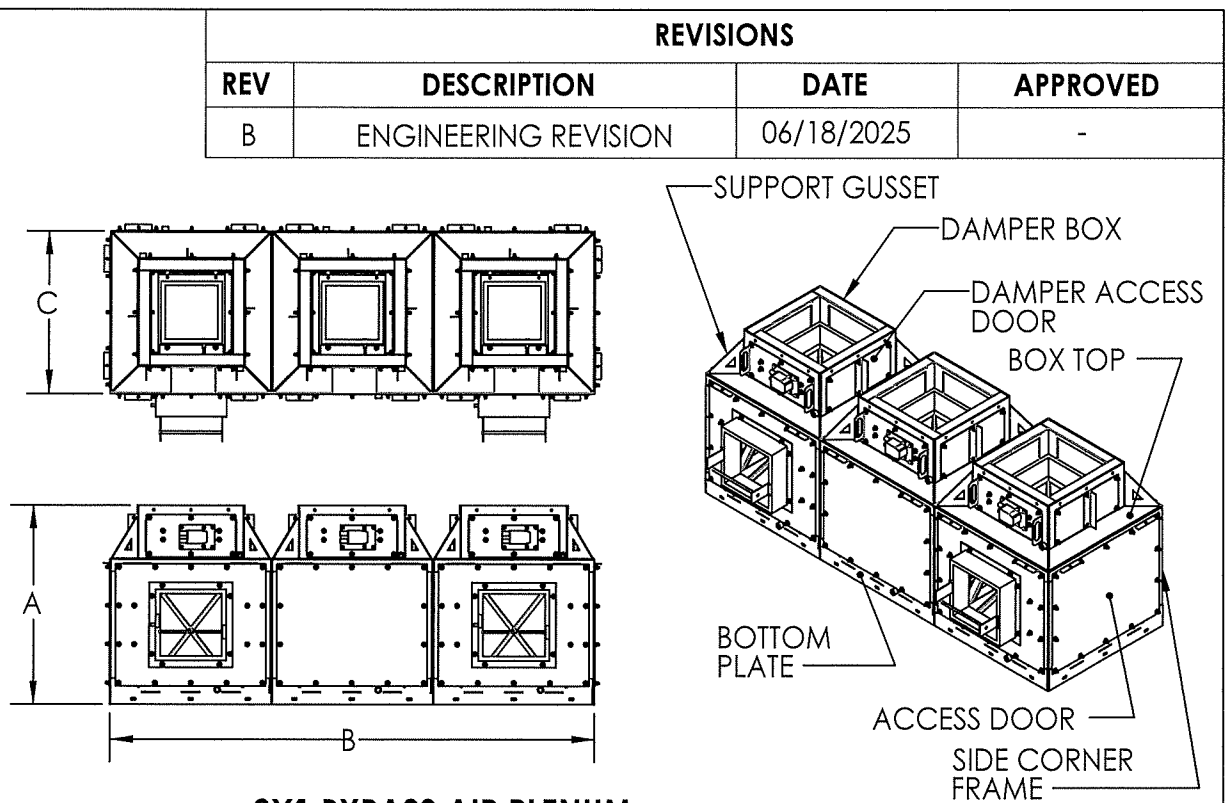
ALL DIMENSIONS ARE IN INCHES

PennBarry 605 Shiloh RD Plano, TX 75074			
iPLUME WEATHER HOOD & MOTOR COVER			
DRAWN: YOGESH	DWG NO. 16605826	REV B	
SCALE NTS	DATE 11/25/2021	SHEET 8 OF 12	



UNIT	A	B	C
iPLUME-122	44.75	36.50	36.50
iPLUME-135	44.75	39.50	39.50
iPLUME-150	44.75	45.50	45.50
iPLUME-165	44.75	46.50	46.50
iPLUME-182	50.75	53.50	53.50
iPLUME-200	50.75	57.50	57.50
iPLUME-222	50.75	61.50	61.50
iPLUME-245	50.75	62.50	62.50
iPLUME-270	50.75	65.50	65.50
iPLUME-300	56.75	71.50	71.50
iPLUME-330	56.75	78.50	78.50
iPLUME-365	62.75	81.50	81.50

UNIT	A	B	C
iPLUME-122	44.75	73.00	36.50
iPLUME-135	44.75	79.00	39.50
iPLUME-150	44.75	91.00	45.50
iPLUME-165	44.75	93.00	46.50
iPLUME-182	50.75	107.00	53.50
iPLUME-200	50.75	115.00	57.50
iPLUME-222	50.75	123.00	61.50
iPLUME-245	50.75	125.00	62.50
iPLUME-270	50.75	131.00	65.50
iPLUME-300	56.75	143.00	71.50
iPLUME-330	56.75	157.00	78.50
iPLUME-365	62.75	163.00	81.50



PRODUCT APPROVED
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NOA-No. 24-1011.02
Approval Date 09/25/2025
By [Signature]
Miami-Dade Product Control

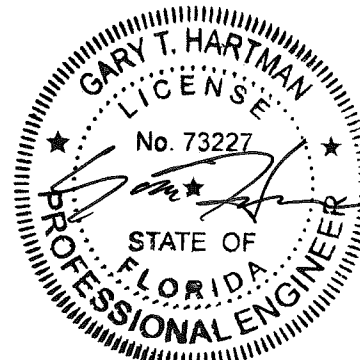
UNIT	A	B	C
iPLUME-122	44.75	109.50	36.50
iPLUME-135	44.75	118.50	39.50
iPLUME-150	44.75	136.50	45.50
iPLUME-165	44.75	139.50	46.50
iPLUME-182	50.75	160.50	53.50
iPLUME-200	50.75	172.50	57.50
iPLUME-222	50.75	184.50	61.50
iPLUME-245	50.75	187.50	62.50
iPLUME-270	50.75	196.50	65.50
iPLUME-300	56.75	214.50	71.50
iPLUME-330	56.75	235.50	78.50
iPLUME-365	62.75	244.50	81.50

SIZE	MATERIAL						
	PLENUM BODY					DAMPER ACCESS DOOR	ACCESS DOOR
	BOX TOP	SIDE CORNER FRAME	BOTTOM PLATE	SUPPORT GUSSET	DAMPER BOX		
iPLUME-122	7 GA HRS	7 GA HRS	12 GA HRS	0.25" HRS	0.25 GA HRS	14 GA HRS	14 GA HRS
iPLUME-135							
iPLUME-150							
iPLUME-165							
iPLUME-182							
iPLUME-200	0.31" HRS	7 GA HRS	10 GA HRS	0.38" HRS	0.25 GA HRS	0.1" Alum.	0.1" Alum.
iPLUME-222							
iPLUME-245							
iPLUME-270	0.25" HRS	10 GA HRS	10 GA HRS	0.38" HRS	0.25 GA HRS	0.1" Alum.	0.1" Alum.
iPLUME-300							
iPLUME-330							
iPLUME-365							



PennBarry 605 Shiloh RD Plano, TX 75074			
iPLUME BYPASS AIR PLENUMS			
DRAWN:	YOGESH		REV B
SCALE	DATE	SHEET	
NTS	11/25/2021	9 OF 12	

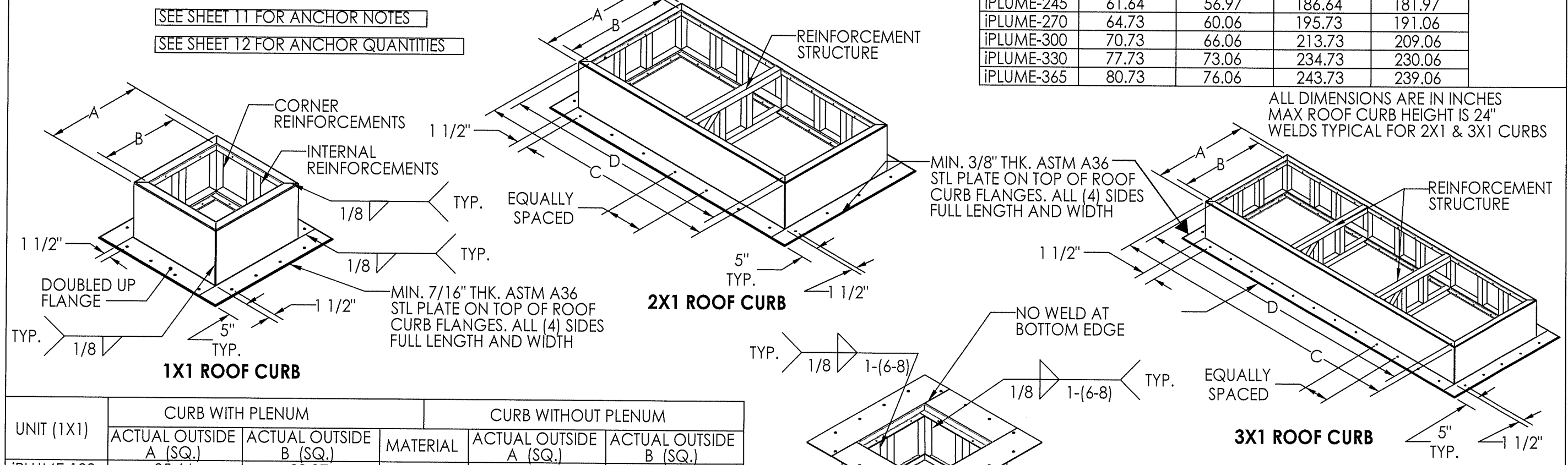
UNIT (2X1)	ACTUAL OUTSIDE (A)	ACTUAL OUTSIDE (B)	ACTUAL OUTSIDE (C)	ACTUAL OUTSIDE(D)	MATERIAL
iPLUME-122	35.64	30.97	72.14	67.47	10 GA GALV
iPLUME-135	38.64	33.97	78.14	73.47	
iPLUME-150	44.64	39.97	90.14	85.47	
iPLUME-165	45.64	40.98	92.14	87.47	
iPLUME-182	52.64	47.97	106.14	101.47	
iPLUME-200	56.64	51.97	114.14	109.47	
iPLUME-222	60.64	55.97	122.14	117.47	
iPLUME-245	61.64	56.97	124.14	119.47	
iPLUME-270	64.73	60.06	130.23	125.56	
iPLUME-300	70.73	66.06	142.23	137.56	
iPLUME-330	77.73	73.06	156.23	151.56	
iPLUME-365	80.73	76.06	162.23	157.56	



SEP 05 2025

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	ENGINEERING REVISION	06/18/2025	-

UNIT (3X1)	ACTUAL OUTSIDE (A)	ACTUAL OUTSIDE (B)	ACTUAL OUTSIDE (C)	ACTUAL OUTSIDE(D)	MATERIAL
iPLUME-122	35.64	30.97	108.64	103.97	10 GA GALV
iPLUME-135	38.64	33.97	117.64	112.97	
iPLUME-150	44.64	39.97	135.64	130.97	
iPLUME-165	45.64	40.98	138.64	133.97	
iPLUME-182	52.64	47.97	159.64	154.97	
iPLUME-200	56.64	51.97	171.64	166.97	
iPLUME-222	60.64	55.97	183.64	178.97	
iPLUME-245	61.64	56.97	186.64	181.97	
iPLUME-270	64.73	60.06	195.73	191.06	
iPLUME-300	70.73	66.06	213.73	209.06	
iPLUME-330	77.73	73.06	234.73	230.06	
iPLUME-365	80.73	76.06	243.73	239.06	



UNIT (1X1)	CURB WITH PLENUM		MATERIAL	CURB WITHOUT PLENUM	
	ACTUAL OUTSIDE A (SQ.)	ACTUAL OUTSIDE B (SQ.)		ACTUAL OUTSIDE A (SQ.)	ACTUAL OUTSIDE B (SQ.)
iPLUME-122	35.64	30.97	10 GA GALV	24.00	19.33
iPLUME-135	38.64	33.97		26.00	21.33
iPLUME-150	44.64	39.97		28.00	23.33
iPLUME-165	45.64	40.98		30.00	25.33
iPLUME-182	52.64	47.97		33.00	28.33
iPLUME-200	56.64	51.97		36.00	31.33
iPLUME-222	60.64	55.97		39.00	34.33
iPLUME-245	61.64	56.97		42.00	37.33
iPLUME-270	64.73	60.06		45.00	40.33
iPLUME-300	70.73	66.06		51.00	46.33
iPLUME-330	77.73	73.06		55.00	50.33
iPLUME-365	80.73	76.06		60.00	55.33

1X1 ROOF CURB
BOTTOM VIEW FOR CLARITY

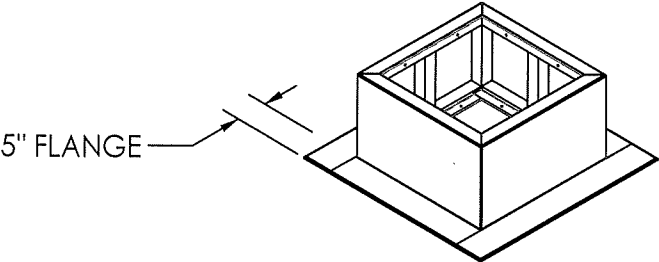
PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 24-1011.02
Approval Date 09/25/2025

By 
Miami-Dade Product Control

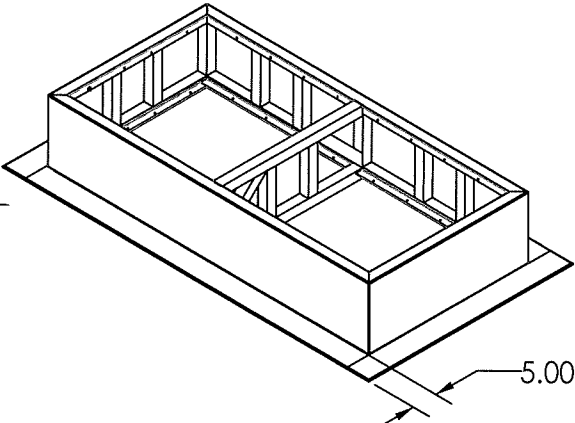
PennBarry 605 Shiloh RD Plano, TX 75074			
iPLUME ROOF CURB			
DRAWN:	YOGESH	DWG NO.	16605826
SCALE	NTS	DATE	11/25/2021
		SHEET	10 OF 12

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	ENGINEERING REVISION	06/18/2025	-

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 24-1011.02
Approval Date 09/25/2025
By [Signature]
Miami-Dade Product Control



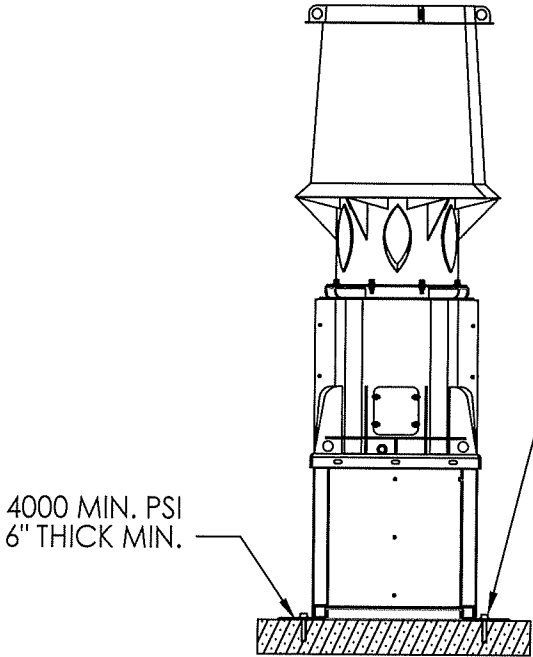
1X1 ROOF CURB



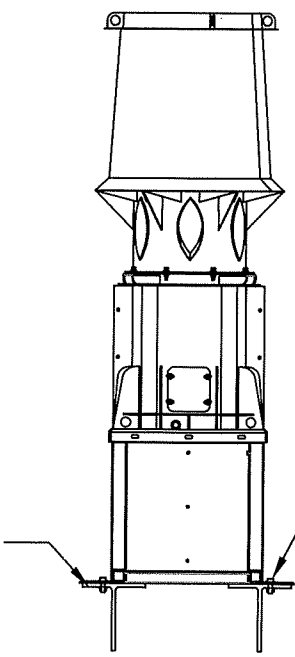
2X1 OR 3X1 ROOF CURB

ALL DIMENSIONS ARE IN INCHES

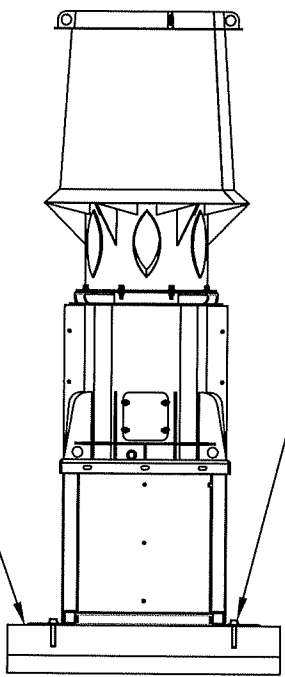
PennBarry 605 Shiloh RD Plano, TX 75074		
iPLUME ROOF CURB INSTALLATION		
DRAWN: YOGESH	DWG NO. 16605826	REV B
SCALE NTS	DATE 11/25/2021	SHEET 11 OF 12



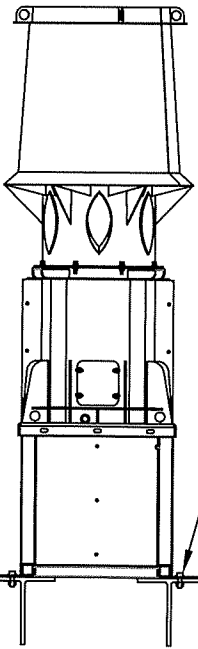
CONCRETE DECK ANCHORING



STEEL ANCHORING - THRU BOLT



TIMBER ANCHORING



METAL ANCHORING - SELF TAPPING

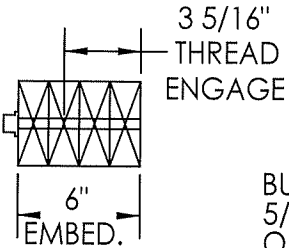
CRACKED (C) OR
UN-CRACKED CONC. (UC)
HILTI KWIK BOLT TZ2
4.5" MIN. EMBEDMENT
SEE SHEET 12 FOR ANCHOR
DIAMETERS AND MIN. EDGE
DISTANCES

BUILDING MEMBER
MIN. 5/16" THK.
ASTM A36 STL

1/2" DIA. THRU BOLT
1" MIN. EDGE / END DISTANCE ON BUILDING MEMBER

5/8" DIA. LAG BOLT
6" MIN. EMBEDMENT
3 5/16" MIN. THREAD ENGAGEMENT
2 1/2" MIN. EDGE DISTANCE
2 1/2" MIN. END DISTANCE

WOOD TIMBER
6" THICK MIN.
MIN. S.G.=0.5



BUILDING MEMBER
5/16" THK ASTM A36 STL
OR 5/16" THK 6063-T5

5/16" DIA. SELF TAPPING SCREW (OR BETTER)
5/16" MIN. THREAD ENGAGEMENT
1/2" MIN. EDGE DISTANCE ON BUILDING MEMBER

SEE SHEET 12 FOR ANCHOR QUANTITIES

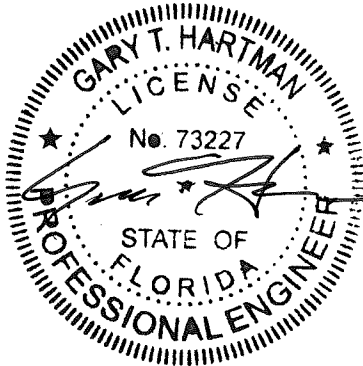
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	ENGINEERING REVISION	07/14/2025	-

UNIT	CONCRETE DECK ANCHORING										5/8" DIA. LAG BOLT TIMBER ANCHORING								1/2" DIA. THRU BOLT STEEL ANCHORING								5/16" DIA. SELF-TAPPING SCREW METAL ANCHORING																											
	ANCHOR DIA. (in)		EDGE DIST (in)		FAN ONLY Anchors/ Side (#)	1X1 Anchors / Side	2X1		3X1		FAN ONLY		1X1		2X1		3X1		FAN ONLY		1X1		2X1		3X1		FAN ONLY				1X1				2X1				3X1															
							LS	SS	LS	SS																	STL	ALUM	STL	ALUM	STL	ALUM	STL	ALUM	STL	ALUM																		
	UC	C	UC	C	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS	LS	SS																		
iPLUME-122	0.675	0.675	9	4	5	8	5	12	5	5	5	6	6	11	6	16	6	3	3	4	4	8	4	12	4	5	5	6	6	6	6	7	7	14	6	16	6	26	6															
iPLUME-135					9	5	13	5	12			6	17	6	17	6	24			6	28	6																																
iPLUME-150					6	10	6	15	6			7	7	13	7	20	7			7	7	8	8	16	7					19	7	26	7	31	7																			
iPLUME-165												12	7	18	7	6	6			9	9	16	9	32	9					8	8	10	10	18	8	25	8	31	8	41	8													
iPLUME-182				12	5	7	13	7	20	8	7	7	10	10	21	10	36	10	5	5	7	7	12	7	19	7	6	6	7	7	9	9	11	11	21	9	28	9	35	9	45	9												
iPLUME-200																											14	8	21	8	7	7	10	10	21	10	36	10	8	8	9	9	11	11	12	12	24	10	32	10	40	10	52	10
iPLUME-222																											15	8	23	9	8	8	11	11	27	11	45	11	9	9	11	11	13	13	16	16	33	13	44	13	56	13	72	13
iPLUME-245																											17	9	25	10	9	9	12	12	31	12	52	12	6	6	8	8	15	8	23	8	11	11	13	13	15	15	18	18
iPLUME-270	0.75	0.75	12	17	6	8	14	8	21	8	7	7	10	10	21	10	36	10	5	5	7	7	12	7	19	7	8	8	9	9	11	11	13	13	27	11	36	11	46	11	59	11												
iPLUME-300																											9	9	11	11	13	13	16	16	33	13	44	13	56	13	72	13												
iPLUME-330																											10	10	12	12	31	12	52	12	6	6	8	8	15	8	23	8	11	11	13	13	15	15	18	18	38	15	50	15
iPLUME-365					7	9	17	9	25	10	9	9	12	12	31	12	52	12	6	6	8	8	15	8	23	8	11	11	13	13	16	16	19	19	38	16	50	16	64	16	81	16												

NOTE: ANCHORS SHALL BE 1-3/4" FROM VERTICAL CURB FACE. END ANCHORS SHALL BE 1-1/2" FROM VERTICAL EDGE. INTERMEDIATE ANCHORS SHALL BE EQUALLY SPACED BETWEEN END ANCHORS. HOLE QUANTITY AND LOCATIONS ON DRAWINGS ARE FOR VISUAL REPRESENTATION. SEE ABOVE FOR ACTUAL ANCHOR QUANTITIES

UC = UN-CRACKED CONCRETE
C = CRACKED CONCRETE
STL = STEEL
ALUM = ALUMINUM
LS = LONG SIDE
SS = SHORT SIDE

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. **24-1011.02**
Approval Date **09/25/2025**
By *[Signature]*
Miami-Dade Product Control



SEP 05 2025

PennBarry 605 Shiloh RD Plano, TX 75074		
iPLUME ANCHORAGE SCHEDULE		
DRAWN: YOGESH	DWG NO. 16605826	REV B
SCALE NTS	DATE 11/25/2021	SHEET 12 OF 12