



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 Rd.
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: Series MU MUFFAN Steel Rooftop Supply Fans

APPROVAL DOCUMENT: Drawing No. **08-01543**, titled "MUFFAN Steel Belt Drive & Direct Drive Roof Vent", sheets 1 through 9 of 9, dated 08/02/2016, with revision dated 08/25/2020, prepared by Air System Components, Inc. dba PennBarry, signed and sealed by Gary T. Hartman, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration 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, city, state, 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 **renews** and **revises** NOA # **17-0112.08** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



NOA No. 20-0625.10
Expiration Date: September 3, 2025
Approval Date: October 22, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOAs
 - A. **DRAWINGS “Submitted under NOA #17-0112.08”**
 1. Drawing No. **08-01543**, titled “MUFFAN Steel Belt Drive & Direct Drive Roof Vent”, sheets 1 through 9 of 9, dated 08/0/2016, prepared by Air System Components, Inc. dba PennBarry, signed and sealed by Thomas D. Sullivan, P.E.
 - B. **TESTS “Submitted under NOA #17-0112.08”**
 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
along with marked-up drawings and installation diagram of Model MUFFAN (MU) 6020 steel roof fan, prepared by Intertek/ATI, Test Report No. **G1564.01-801-18**, dated 10/13/2016, with revision dated 02/28/2017, signed and sealed by Tyler Westerling, P.E.
“Submitted under NOA #12-1205.09”
 2. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94,
along with marked-up drawings and installation diagram of MUFFAN Steel Belt Drive & Direct Drive Roof Vents, prepared by Architectural Testing, Inc., Test Report No. **B7885.01-801-18**, dated 06/28/2012, with Revision 1 dated 08/21/2012, signed and sealed by Shawn G. Collins, P.E.
 - C. **CALCULATIONS “Submitted under NOA #17-0112.08”**
 1. Anchoring verification calculations prepared by JB & B Engineering Consultants, LLC, dated 03/15/2017, signed and sealed by Thomas D. Sullivan, P.E.
“Submitted under NOA #12-1205.09”
 2. Anchor verification calculations prepared by Luis R. Lomas, P.E., dated 01/26/2015, signed and sealed by Luis R. Lomas, P.E.
 - D. **QUALITY ASSURANCE**
 1. Miami-Dade Department of Regulatory and Economic Resources (RER)
 - E. **MATERIAL CERTIFICATIONS**
 1. None.
 - F. **STATEMENTS “Submitted under NOA #17-0112.08”**
 1. Statement letter of code conformance to the 5th edition (2014) FBC and of no financial interest issued by JB and B Engineering Consultants, LLC, dated 04/03/2017, signed and sealed by Thomas D. Sullivan, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0625.10
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. New evidence submitted

A. DRAWINGS

1. Drawing No. **08-01543**, titled “MUFFAN Steel Belt Drive & Direct Drive Roof Vent”, sheets 1 through 9 of 9, dated 08/02/2016, with revision dated 08/25/2020, prepared by Air System Components, Inc. dba PennBarry, signed and sealed by Gary T. Hartman, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Analysis and supplementary calculations prepared by Gary T. Hartman, P.E., dated 08/25/2020, 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 6th edition (2017) and 7th edition (2020) of the FBC issued by Gary T. Hartman, P.E., dated 08/25/2020, signed and sealed by Gary T. Hartman, P.E.
2. Statement letter of no financial interest issued by Gary T. Hartman, P.E., dated 08/26/2020, signed and sealed by Gary T. Hartman, P.E.
3. Distributor agreement dated 04/01/2020.



Carlos M. Utrera, P.E.
Product Control Examiner
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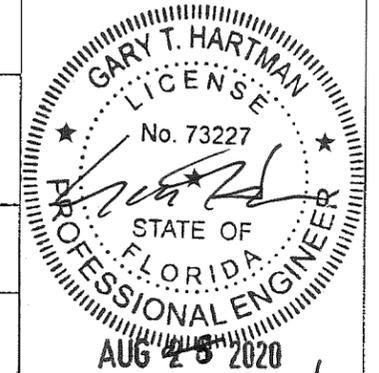
NOTES:

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	-	-	-

1. THE 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 MASONRY/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 $C_d=1.6$ 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 OR 2X BUCK USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
7. FOR ANCHORING INTO CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
8. FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
9. ALL FASTENERS TO BE CORROSION RESISTANT.
10. 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:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF $G=0.55$ per Calcs.
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - C. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM.
11. THIS APPROVAL IS FOR STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
12. UNITS WERE NOT TESTED FOR WATER PENETRATION PER FBC, TAS 100(A).

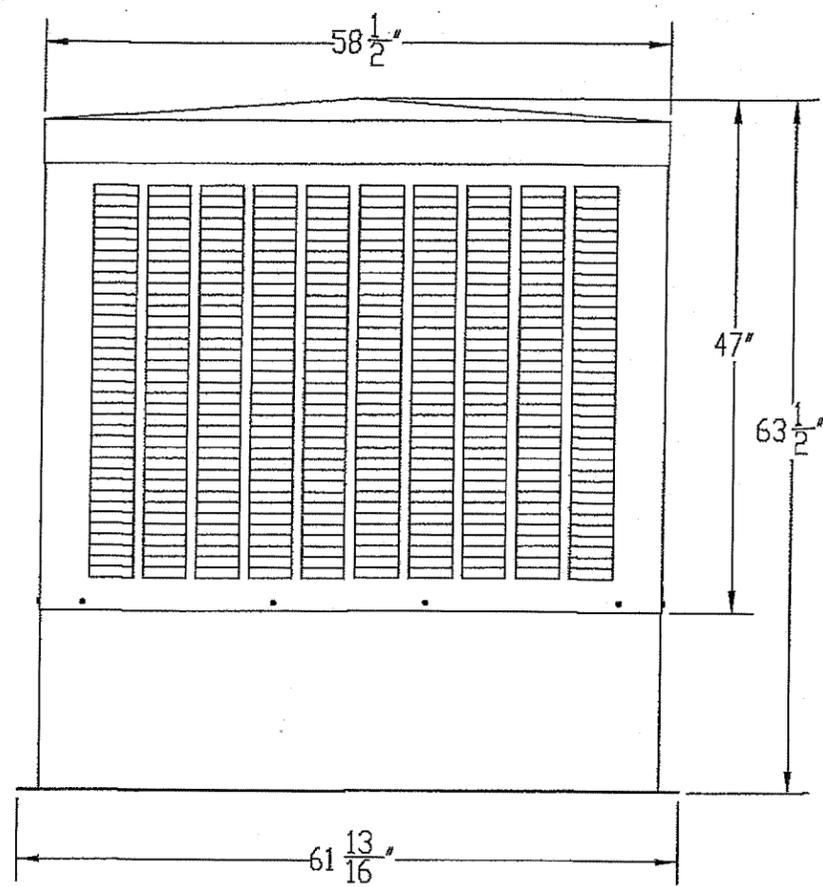
TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2	ELEVATIONS
3-4	B.I.M AND SECTIONS
5-9	INSTALLATION DETAILS

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0625.10 Expiration Date 09/03/2025 By <i>[Signature]</i> Miami-Dade Product Control		PennBarry 605 Shiloh RD Plano, TX 75074	
		MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT GENERAL NOTES	
DRAWN	AMIT	DWG NO.	08-01543
SCALE	NTS	DATE	08/02/2016
		SHEET	1 OF 9.

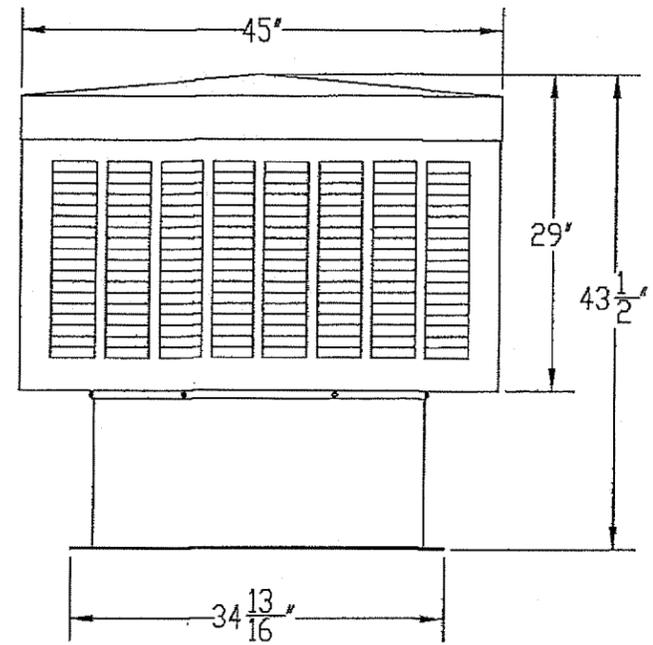


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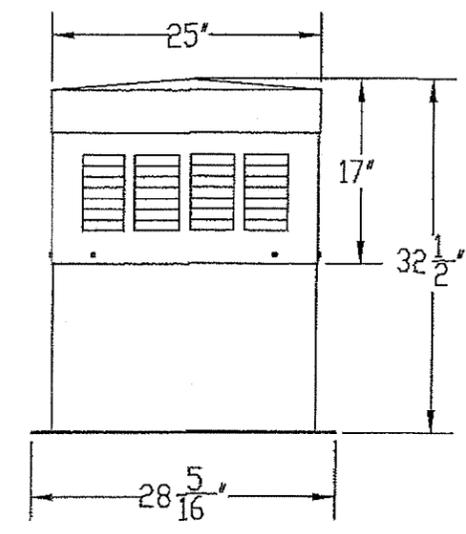
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	-	-	-



MU6020 MUFFAN BELT DRIVE
ELEVATION VIEW



MU5018 MUFFAN BELT DRIVE
ELEVATION VIEW



MU10 MUFFAN DIRECT DRIVE
ELEVATION VIEW

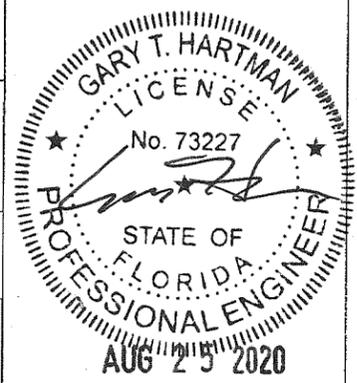
DESIGN PRESSURE RATING	IMPACT RATING
± 70.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ

APPROVED MODELS					
NAME	DRIVE	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)
MU10	DIRECT DRIVE	25	21	17	82
MU20	DIRECT DRIVE	43	22	17	129
MU30	DIRECT DRIVE	43	22	17	156
MU3010	BELT DRIVE	28 1/2	28 1/2	24	139
MU4012	BELT DRIVE	36 1/2	36 1/2	27	211
MU4015	BELT DRIVE	36 1/2	36 1/2	27	221
MU5018	BELT DRIVE	45	45	29	306
MU6020	BELT DRIVE	58 1/2	58 1/2	47	770

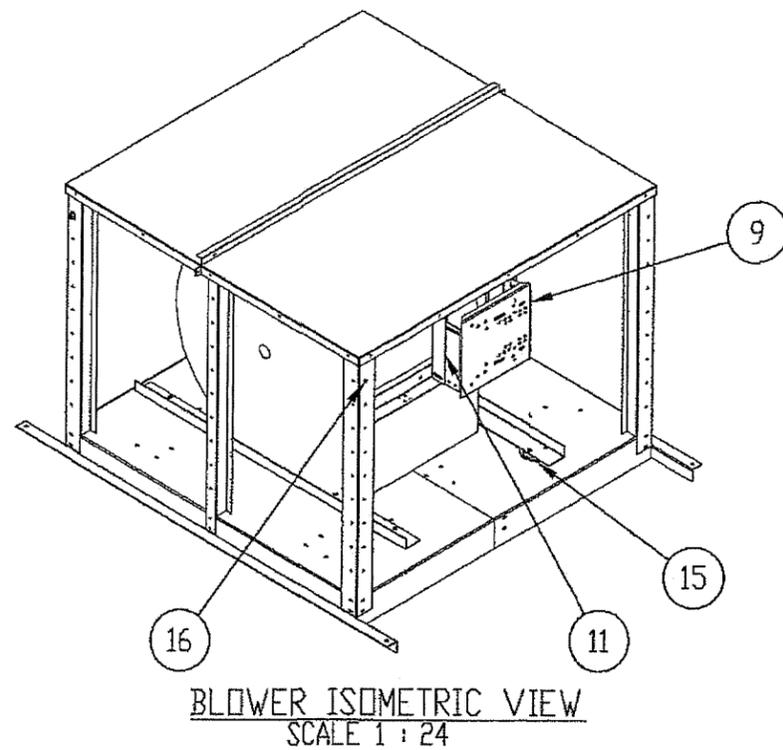
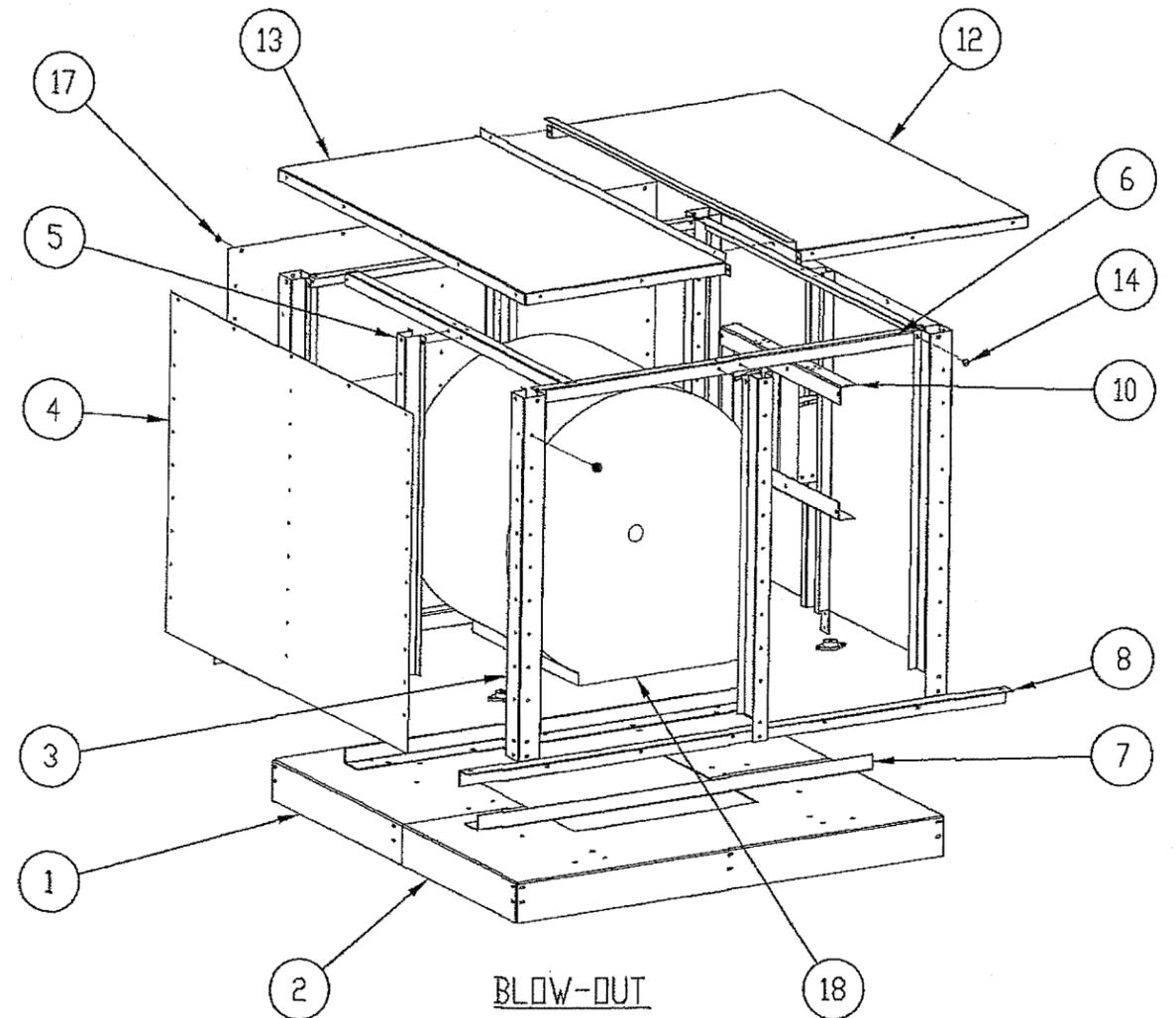
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0625.10
Expiration Date 09/03/2025
By *[Signature]*
Miami-Dade Product Control

PennBarry 605 Shitoh RD Plano, TX 75074		
MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT ELEVATIONS		
DRAWN AMIT	DWG NO. 08-01543	
SCALE NTS	DATE 08/02/2016	SHEET 2 OF 9

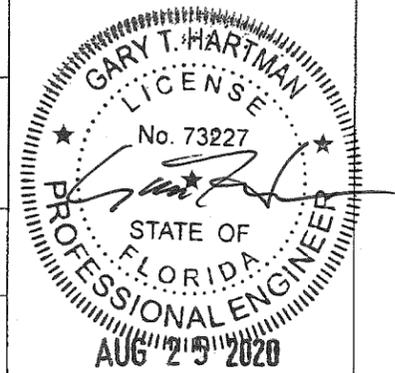


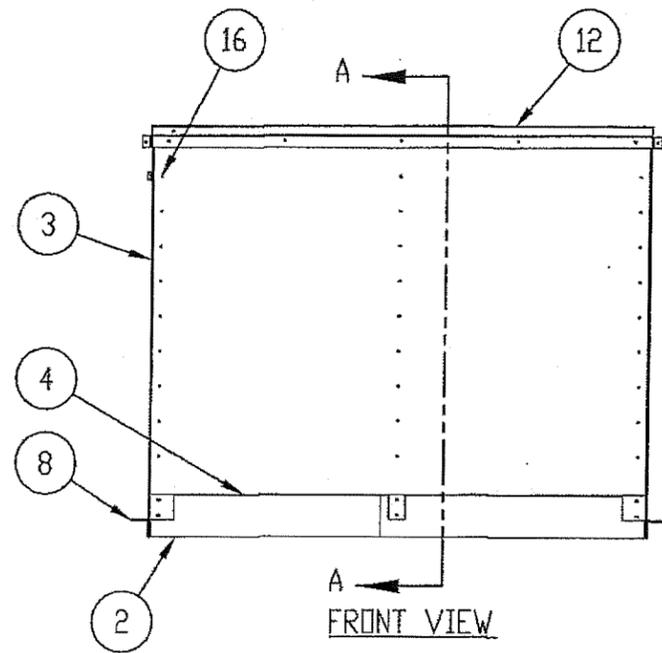
ITEM NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	13672-M	BASE LONG	PENNBARRY	14GA GALVANIZED STEEL
2	13673-M	BASE SHORT	PENNBARRY	14GA GALVANIZED STEEL
3	13680-M	CORNER	PENNBARRY	14GA GALVANIZED STEEL
4	13676-M	PANEL	PENNBARRY	16GA GALVANIZED STEEL
5	13677-M	CENTER SUPPORT	PENNBARRY	18GA GALVANIZED STEEL
6	17378-M	PANEL SUPPORT	PENNBARRY	14GA GALVANIZED STEEL
7	13674-0	BLOWER SUPPORT ANGLE	PENNBARRY	10GA GALVANIZED STEEL
8	17293-0	LIFTING ANGLE	PENNBARRY	10GA GALVANIZED STEEL
9	19784-0	MOTOR MOUNT	PENNBARRY	10GA GALVANIZED STEEL
10	19786-0	MOTOR SUPPORT ANGLE HORIZONTAL	PENNBARRY	14GA GALVANIZED STEEL
11	19785-0	MOTOR PLATE SUPPORT	PENNBARRY	12GA GALVANIZED STEEL
12	17320-M2	CAP WITH FLANGE	PENNBARRY	16GA GALVANIZED STEEL
13	17320-M1	CAP WITH FLANGE	PENNBARRY	16GA GALVANIZED STEEL
14	56478-0	TRACK BOLT, 1/4-20x5/8"		
15	63004-0	VIBRATION ISOLATOR		
16	55316-0	RIVSERT 1/4-20		
17	55500-0	WHIZ NUT 1/4-20		
18	BLOWER	BLOWER		
19	55696-0	WHIZ BOLT 1/2-20x3/4		

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
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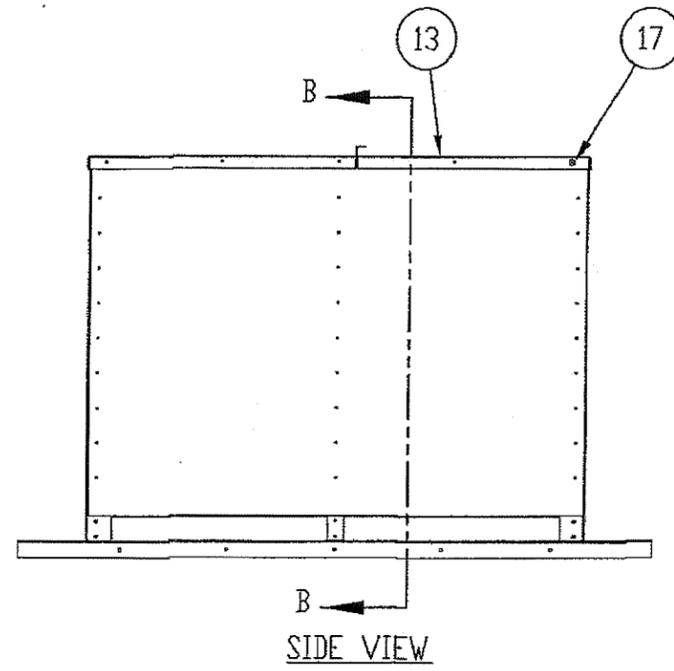


PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0625.10 Expiration Date 09/03/2025 By <i>[Signature]</i> Miami-Dade Product Control	PennBarry 605 Shiloh RD Plano, TX 75074		
	MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT B.O.M. & SECTIONS		
DRAWN AMIT	DWG NO. 08-01543	REV	
SCALE NTS	DATE 08/02/2016	SHEET 3 OF 9	

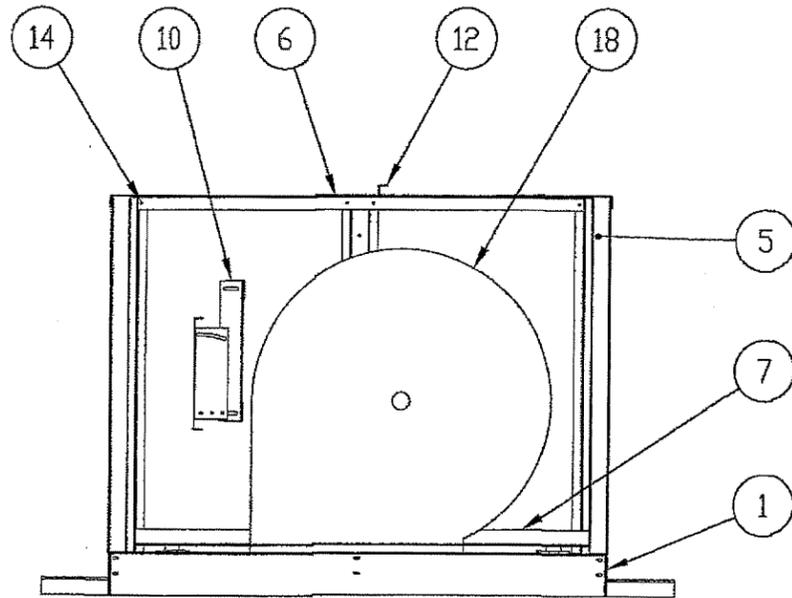




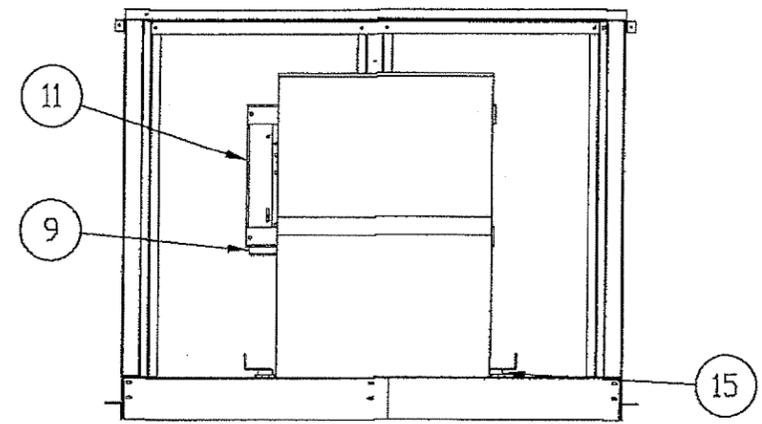
FRONT VIEW



SIDE VIEW



SECTION A-A

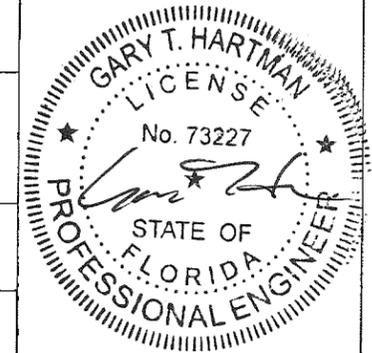


SECTION B-B

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
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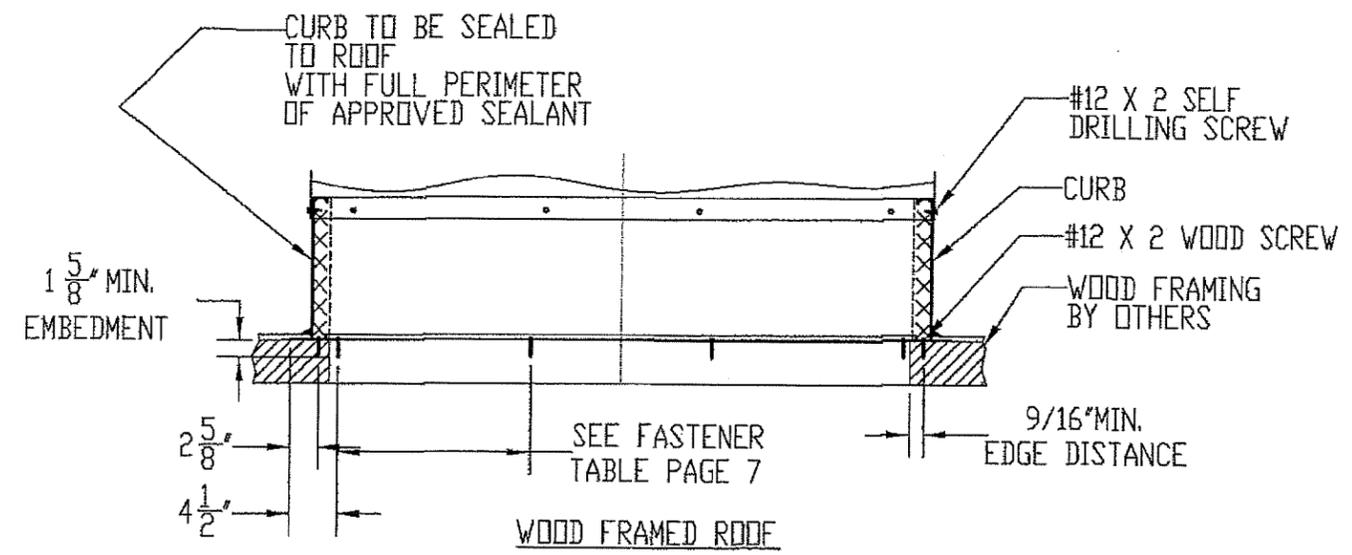
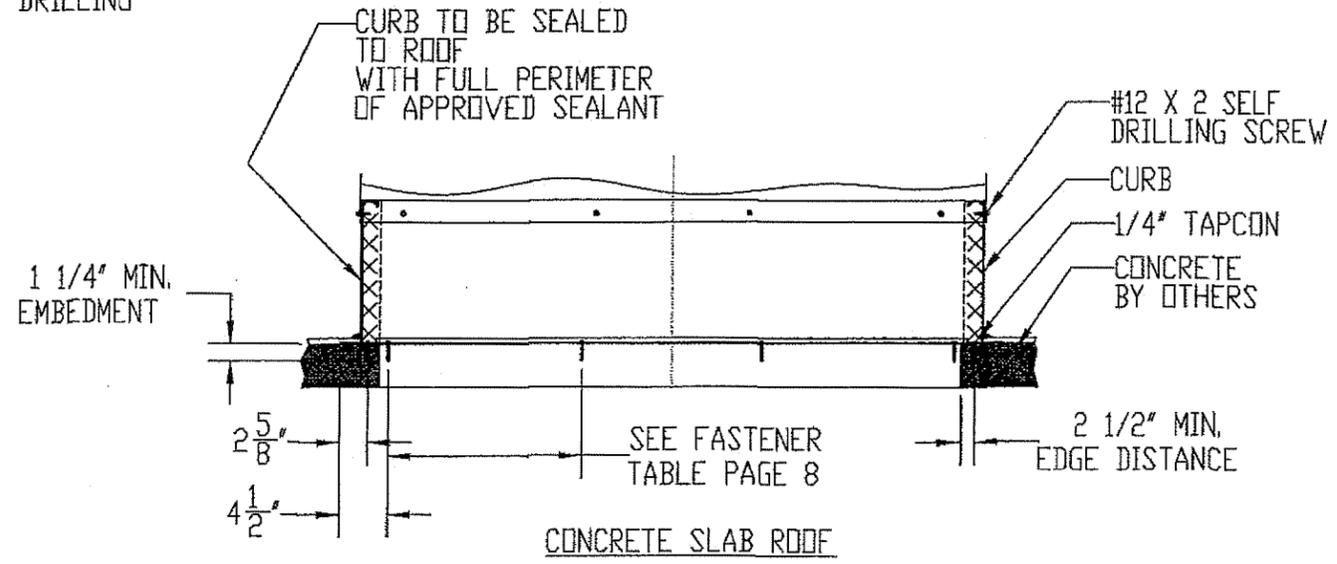
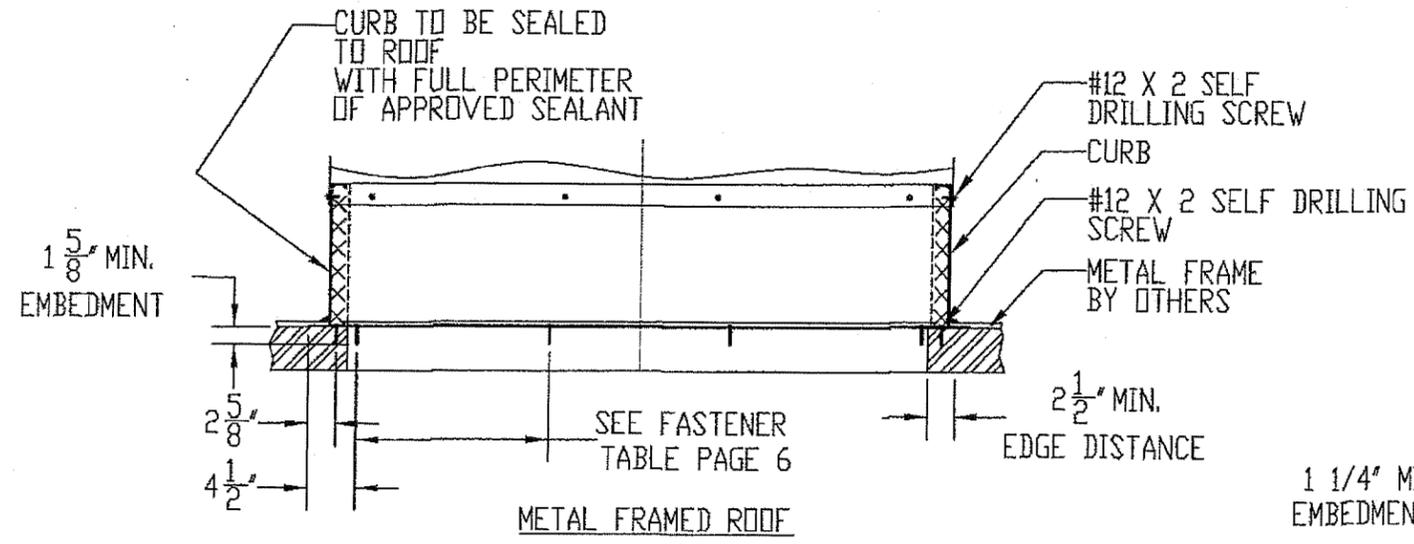
PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 20-0625.10
 Expiration Date 09/03/2025
 By *[Signature]*
 Miami-Dade Product Control

PennBarry 605 Shiloh RD Plano, TX 75074			
MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT SECTIONS			
DRAWN	AMIT	DWG NO.	08-01543
SCALE	NTS	DATE	08/02/2016
		SHEET	4 OF 9



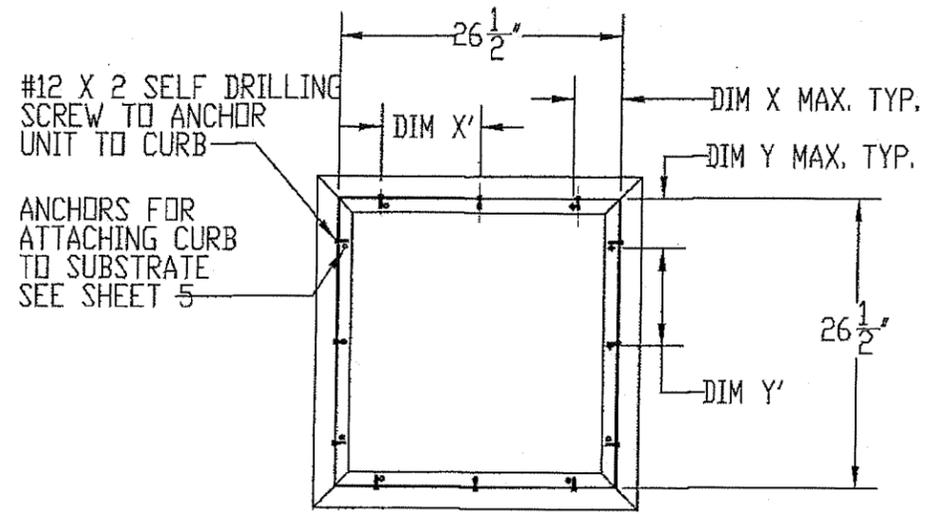
AUG 25 2020

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	CORRECTED NOTE 3 REF	8/22/20	DR

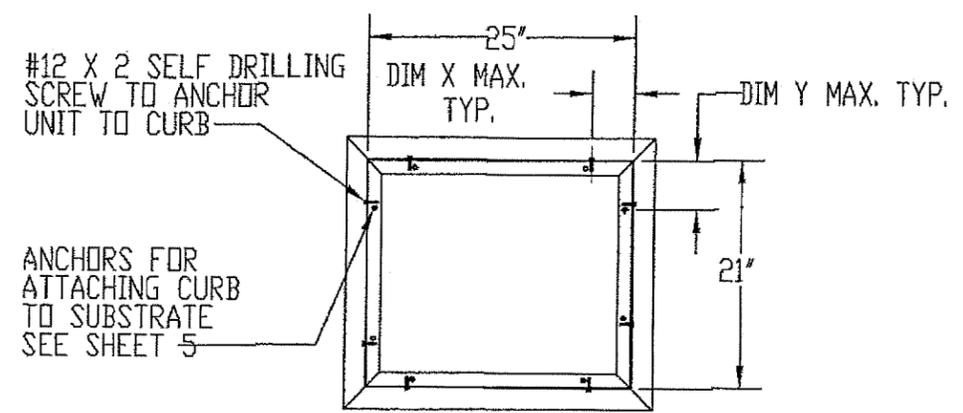


- NOTES:
1. ALL FOUR SIDES OF CURB AND BASE ARE ANCHORED IDENTICALLY.
 2. ROOF CURB IS INSTALLED TO ROOF FIRST. ONCE CURB IS INSTALLED FAN IS ATTACHED TO CURB USING #12 SELF DRILLING SCREWS AS SHOWN ABOVE.
 3. SEE SHEET 9, COMPONENTS FOR ROOF CURB CONSTRUCTION.
 4. UNITS MAYBE INSTALLED WITH, ALUMINUM 3003-H14 CURB OR GALVANIZED STEEL CURB.

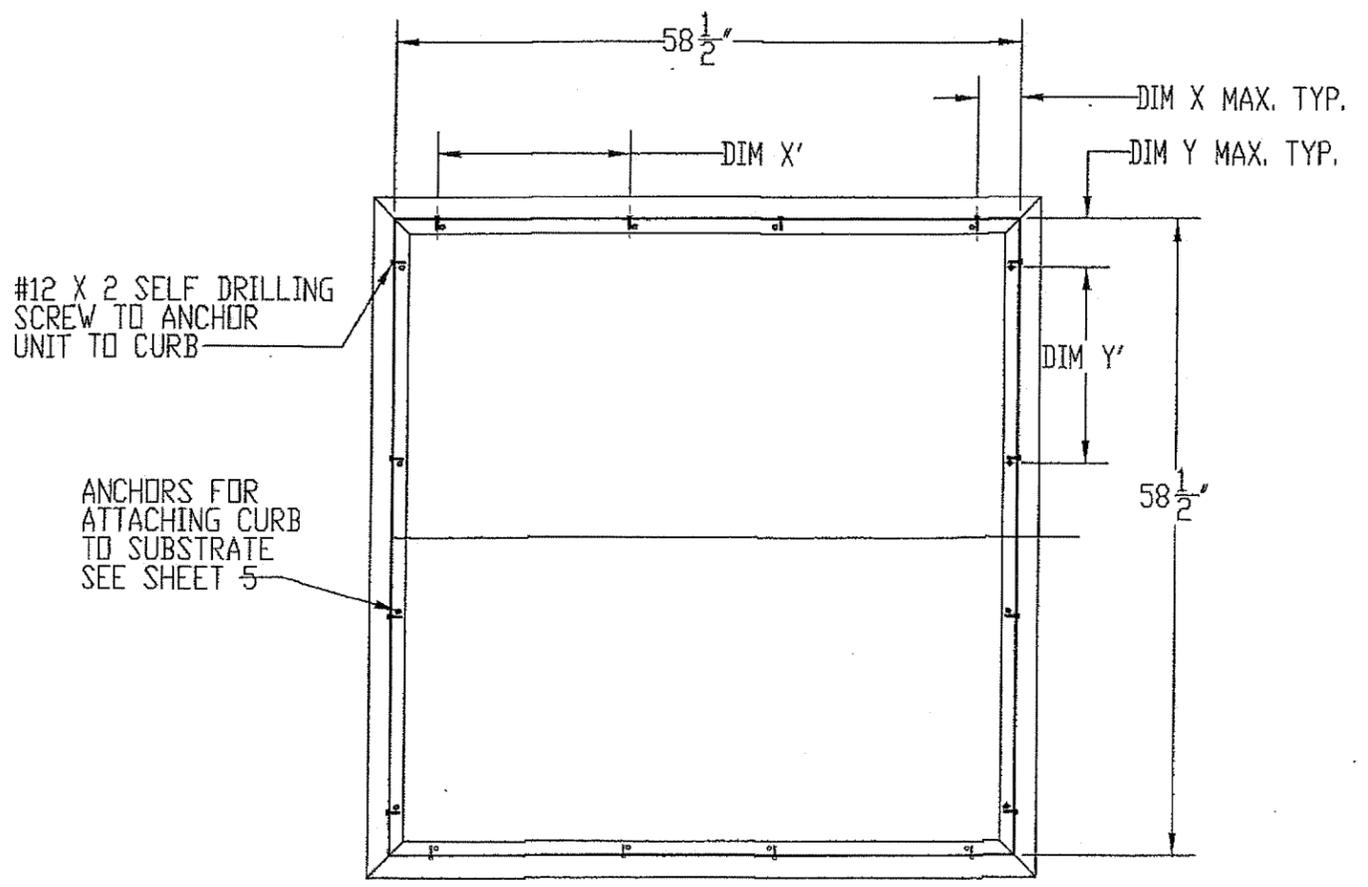
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0625.10 Expiration Date 09/03/2025 By <i>R. Hartman</i> Miami-Dade Product Control	PennBarry 605 Shiloh RD Plano, TX 75074		
	MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT INSTALLATION DETAILS		
DRAWN AMIT	DVG NO. 08-01543	REV	AUG 25 2020
SCALE NTS	DATE 08/02/2016	SHEET 5 OF 9	



MU5018 PLAN VIEW INSTALLATION DETAILS
INTERIORS COMPONENTS ARE NOT SHOWN FOR CLARITY



MU10 PLAN VIEW INSTALLATION DETAILS
INTERIORS COMPONENTS ARE NOT SHOWN FOR CLARITY
ROOF TYPE-METAL



MU6020 PLAN VIEW INSTALLATION DETAILS
INTERIORS COMPONENTS ARE NOT SHOWN FOR CLARITY

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	REVISED ANCHORS FOR MU6020	8/22/20	DR

	# 12x2" screws	XMAX	X'MAX(# of anchors)	# 12x2" screws	YMAX	Y'MAX(# of anchors)
MU10	2	4.5	NA(2)	2	4.5	NA(2)
MU20	4	4.5	12.00(4)	2	4.5	NA(2)
MU30	4	4.5	12.00(4)	2	4.5	NA(2)
MU3010	2	4.5	NA(3)	2	4.5	NA(3)
MU4012	2	4.5	NA(3)	2	4.5	NA(3)
MU4012	3	4.5	10.00(3)	3	4.5	10.00(3)
MU4015	3	4.5	10.00(3)	3	4.5	10.00(3)
MU5018	3	4.5	12.00(3)	3	4.5	12.00(3)
MU6020	4	4.5	14.00(5)	4	4.5	14.00(5)

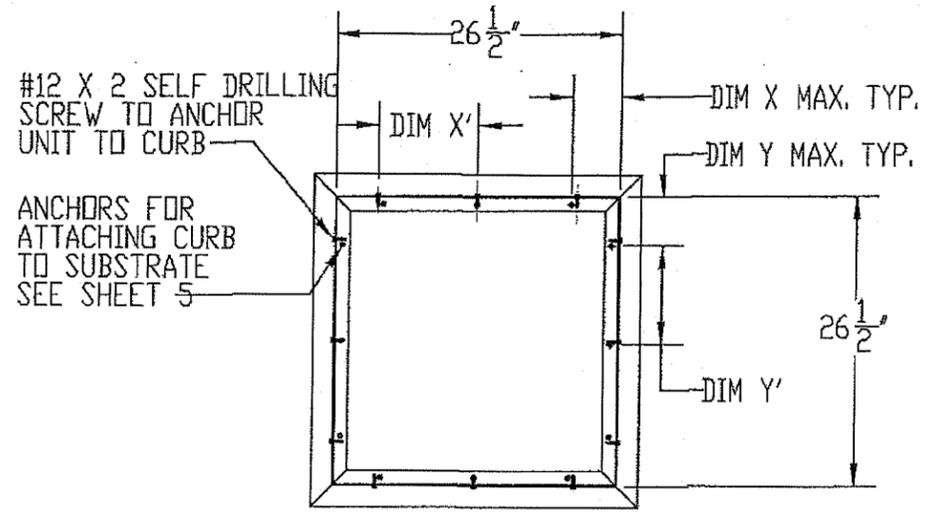
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PennBarry 605 Shiloh RD Plano, TX 75074		
MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT INSTALLATION DETAILS		
DRAWN AMIT	DWG NO. 08-01543	REV
SCALE NTS	DATE 08/02/2016	SHEET 6 OF 9

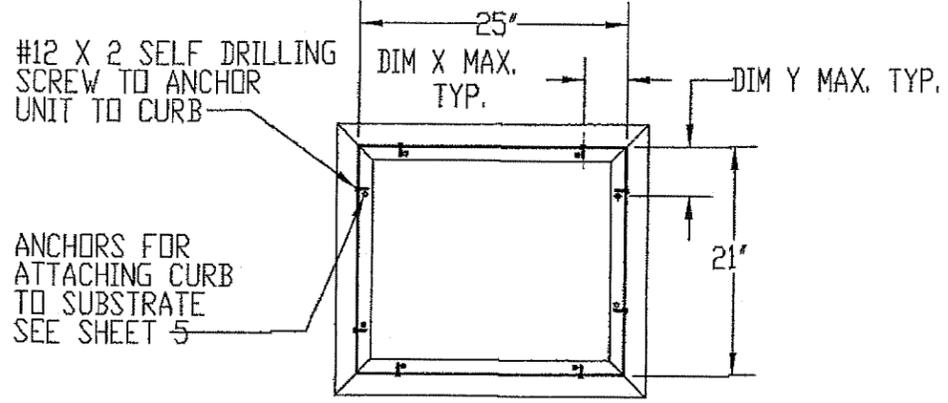


AUG 25 2020

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
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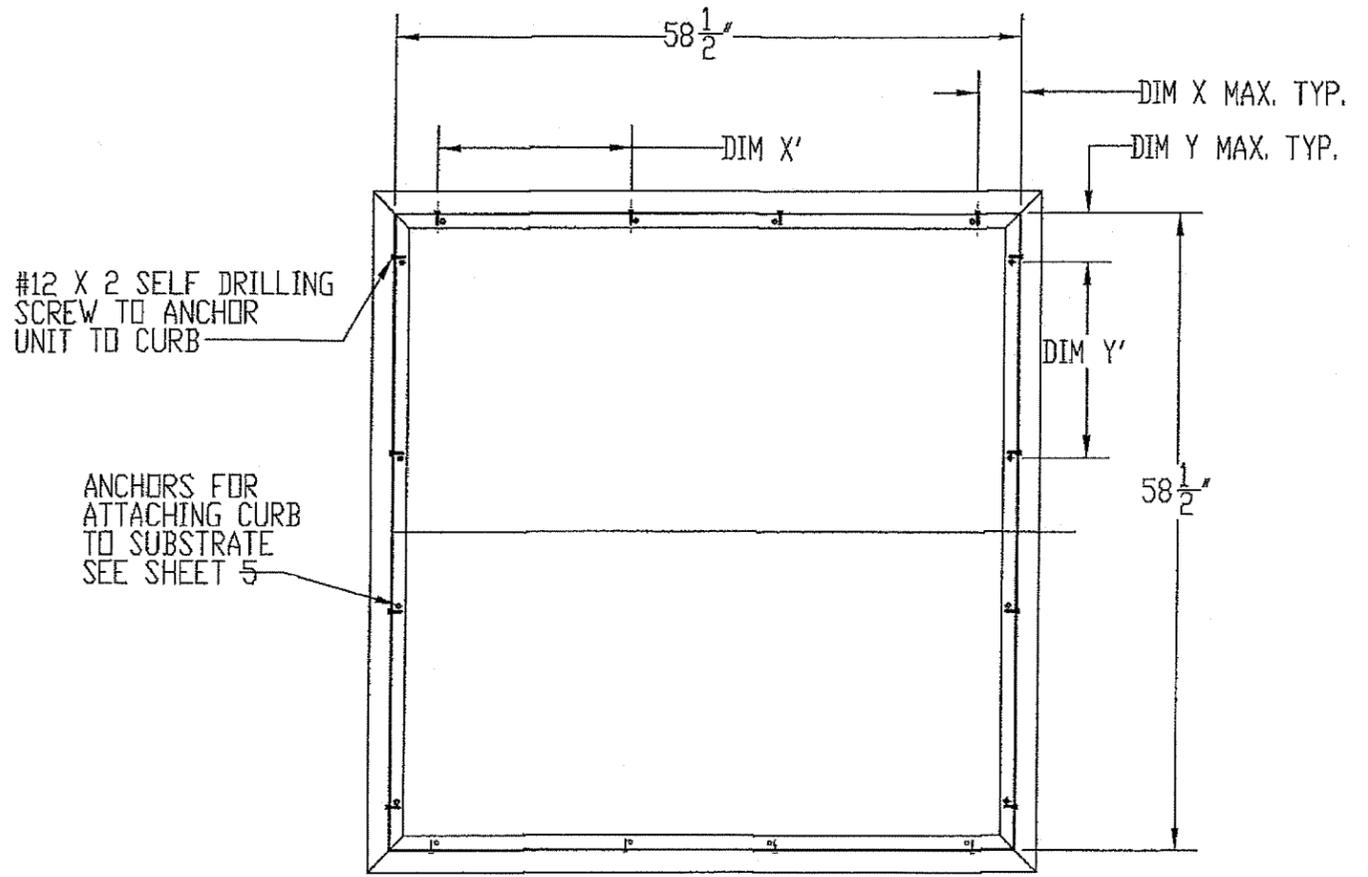


MU5018 PLAN VIEW INSTALLATION DETAILS
INTERIORS COMPONENTS ARE NOT SHOWN FOR CLARITY



MU10 PLAN VIEW INSTALLATION DETAILS
INTERIORS COMPONENTS ARE NOT SHOWN FOR CLARITY

ROOF TYPE-WOOD

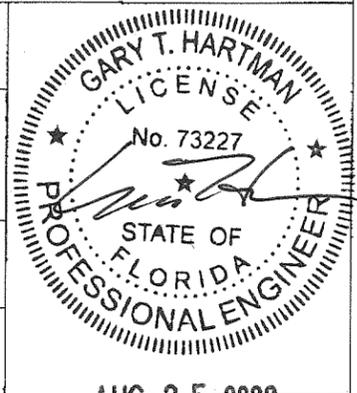


MU6020 PLAN VIEW INSTALLATION DETAILS
INTERIORS COMPONENTS ARE NOT SHOWN FOR CLARITY

	# 12x2" screws	XMAX	X'MAX(# of anchors)	# 12x2" screws	YMAX	Y'MAX(# of anchors)
MU10	2	4.5	NA(2)	2	4.5	NA(2)
MU20	4	4.5	12.00(4)	2	4.5	NA(2)
MU30	4	4.5	12.00(4)	2	4.5	NA(2)
MU3010	2	4.5	NA(3)	2	4.5	NA(3)
MU4012	2	4.5	NA(3)	2	4.5	NA(3)
MU4012	3	4.5	10.00(3)	3	4.5	10.00(3)
MU4015	3	4.5	10.00(3)	3	4.5	10.00(3)
MU5018	3	4.5	12.00(3)	3	4.5	12.00(3)
MU6020	4	4.5	16.00(4)	4	4.5	18.00(4)

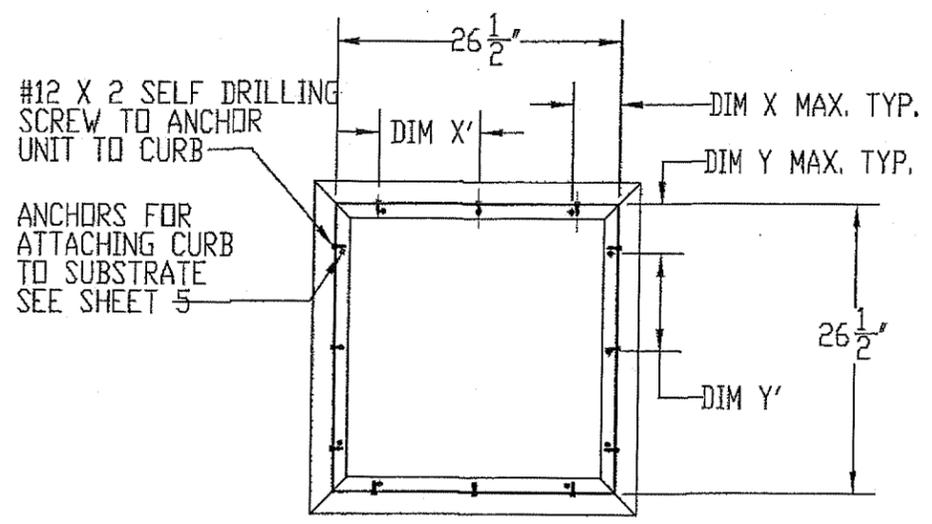
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as complying with the Florida
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Expiration Date 09/03/2025
By *[Signature]*
Miami-Dade Product Control

PennBarry 605 Shiloh RD Plano, TX 75074		
MUFFAN		
STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT INSTALLATION DETAILS		
DRAWN	DWG NO.	REV
AMIT	08-01543	
SCALE	DATE	SHEET
NTS	08/02/2016	7 OF 9

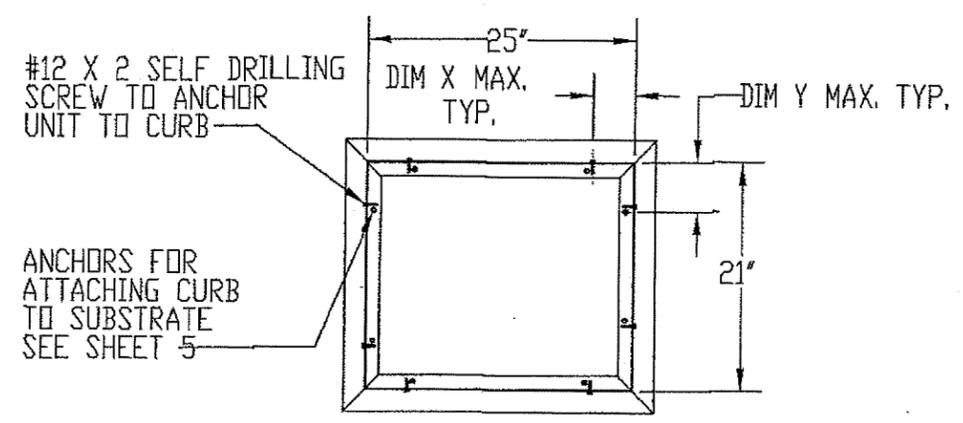


AUG 25 2020

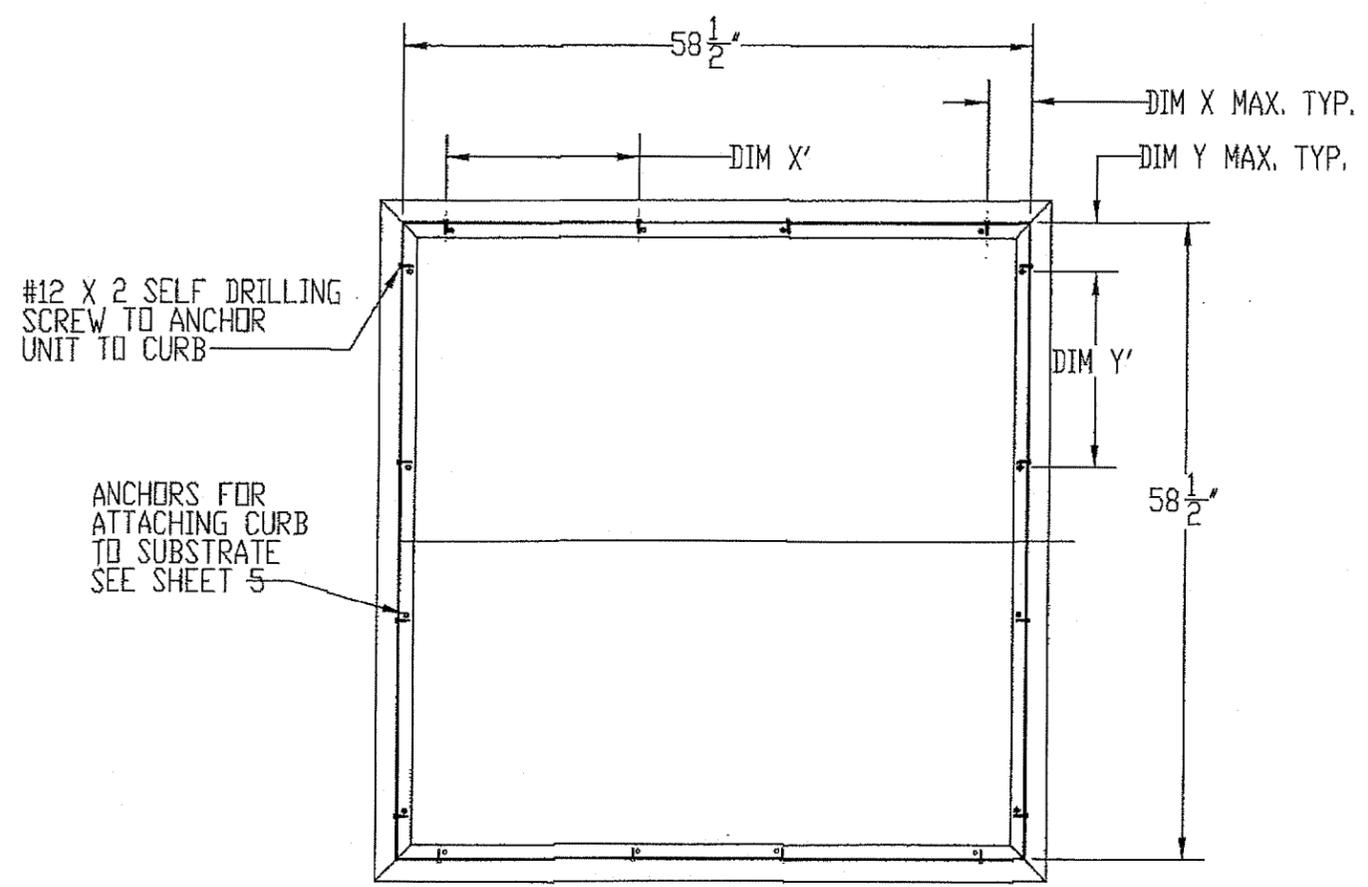
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	-	-	-



MU5018 PLAN VIEW INSTALLATION DETAILS
INTERIORS COMPONENTS ARE NOT SHOWN FOR CLARITY



MU10 PLAN VIEW INSTALLATION DETAILS
INTERIORS COMPONENTS ARE NOT SHOWN FOR CLARITY
ROOF TYPE-CONCRETE



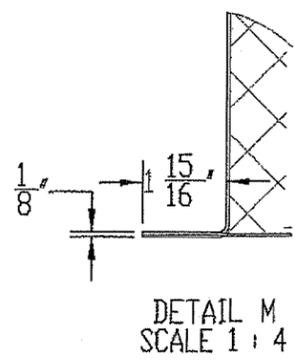
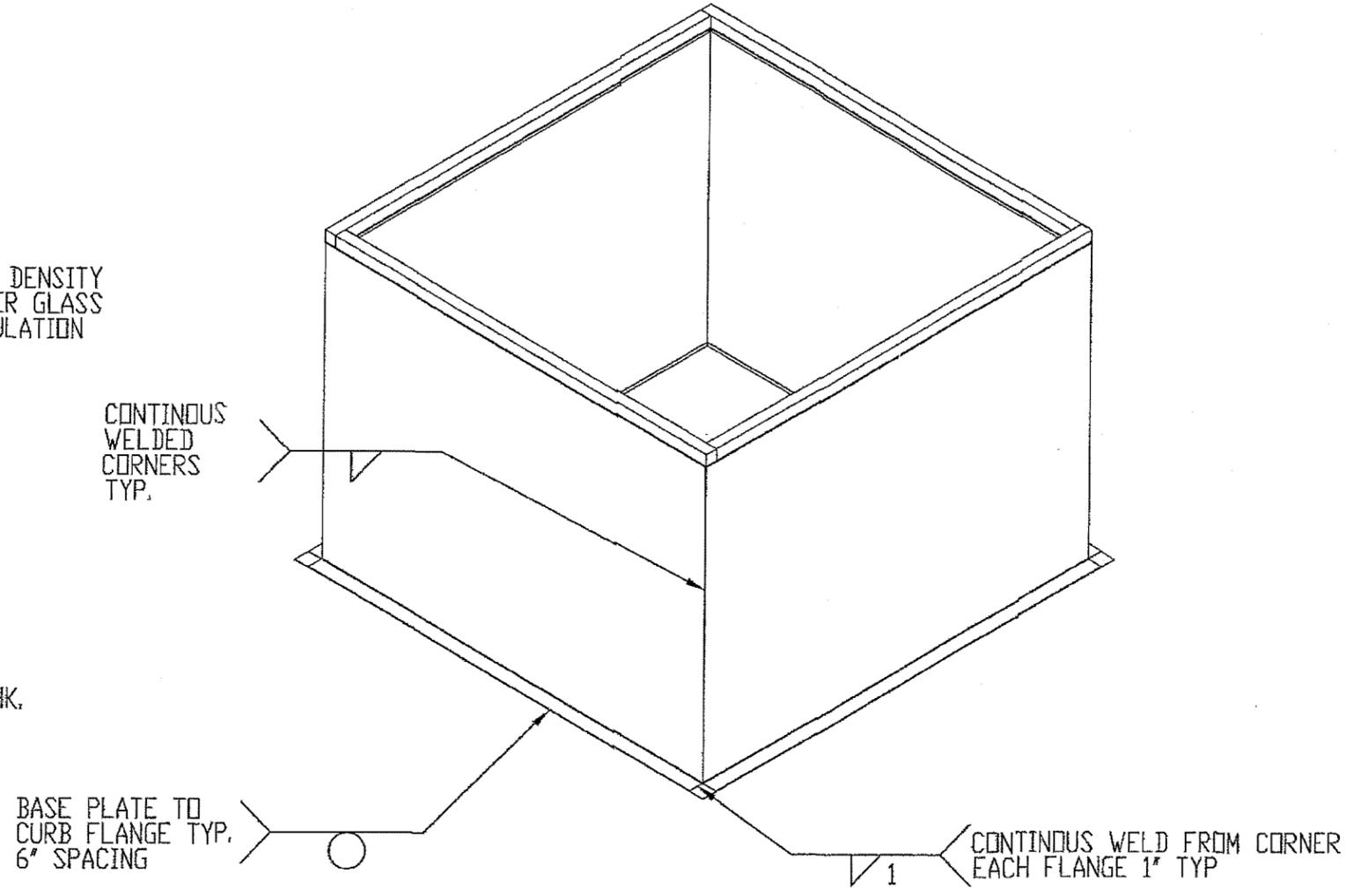
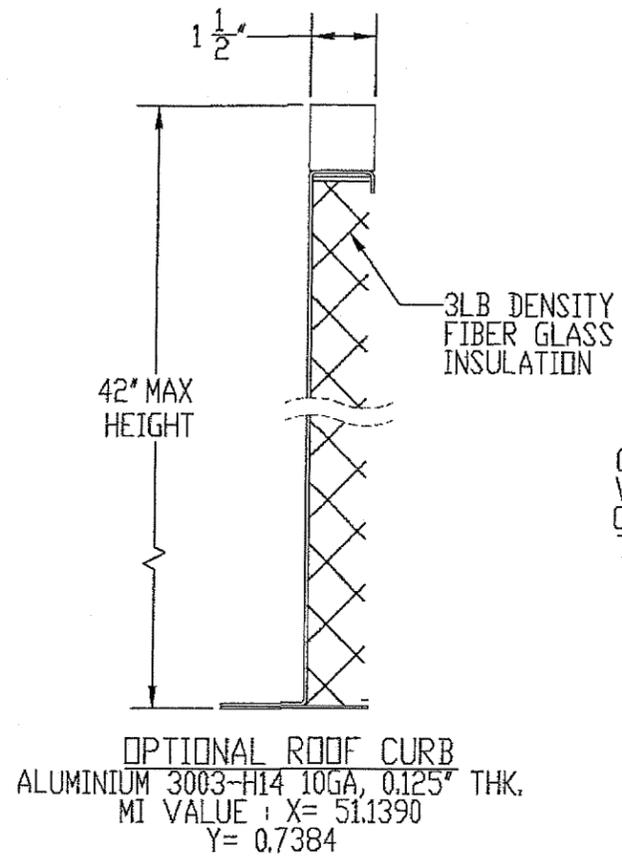
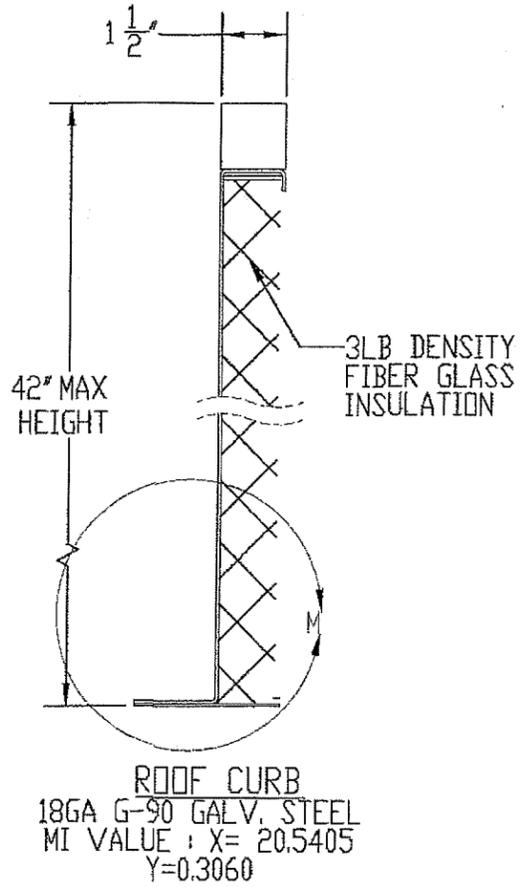
MU6020 PLAN VIEW INSTALLATION DETAILS
INTERIORS COMPONENTS ARE NOT SHOWN FOR CLARITY

	# 12x2" screws	XMAX	X'MAX(# of anchors)	# 12x2" screws	YMAX	Y'MAX(# of anchors)
MU10	2	4.5	NA(2)	2	4.5	NA(2)
MU20	4	4.5	12.00(4)	2	4.5	NA(2)
MU30	4	4.5	12.00(4)	2	4.5	NA(2)
MU3010	2	4.5	NA(3)	2	4.5	NA(3)
MU4012	2	4.5	NA(3)	2	4.5	NA(3)
MU4012	3	4.5	10.00(3)	3	4.5	10.00(3)
MU4015	3	4.5	10.00(3)	3	4.5	10.00(3)
MU5018	3	4.5	12.00(3)	3	4.5	12.00(3)
MU6020	4	4.5	16.00(4)	4	4.5	18.00(4)

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0625.10 Expiration Date 09/03/2025 By <i>[Signature]</i> Miami-Dade Product Control	PennBarry 605 Shiloh RD Plano, TX 75074		
	MUFFAN		
	STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT INSTALLATION DETAILS		
	DRAWN	DWG NO.	
	AMIT	08-01543	
	SCALE	DATE	SHEET
	NTS	08/02/2016	8 OF 9

AUG 25 2020

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	-	-	-



PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0625.10 Expiration Date 09/03/2025 By <i>[Signature]</i> Miami-Dade Product Control		PennBarry 605 Shiloh RD Plano, TX 75074		
		MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT INSTALLATION DETAILS		
DRAWN	AMIT	DWG NO.	08-01543	REV
SCALE	NTS	DATE	08/02/2016	SHEET
				9 OF 9

AUG 25 2020