

## 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

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

#### **NOTICE OF ACCEPTANCE (NOA)**

Twin City Fan Companies, Ltd. 5959 Trenton Lane North Minneapolis, MN 55442

**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 VC and VCU/VCUB Rooftop and Wall Mounted Aluminum Exhaust Fans

**APPROVAL DOCUMENT:** Drawing No. **500024054**, titled "VC/VCU/VCUB Summary" sheets 1 through 13 of 13, dated 10/18/2022, with Revision E dated 08/23/2023, prepared by Twin City Fan Companies, Ltd., signed and sealed by Wayne K. Helmila, P.E., bearing the Miami-Dade County Product Control Approval 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, Elkton, SD, model/series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**LIMITATION:** This fan cannot be installed within the ridge area, FBC 1523.6.5.2.13.

**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 approval document mentioned above. The submitted documentation was reviewed by **Carlos M. Utrera**, **P.E.** 





NOA No. 23-0918.01 Expiration Date: October 26, 2028 Approval Date: October 26, 2023

Page 1

#### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No. **500024054**, titled "VC/VCU/VCUB Summary" sheets 1 through 13 of 13, dated 10/18/2022, with Revision E dated 08/23/2023, prepared by Twin City Fan Companies, Ltd., signed and sealed by Wayne K. Helmila, P.E.

#### B. TESTS

1. Test report 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 three Series/Model VC-120, VCU-085 and VCUB-197 Aluminum Roof Fans, prepared by Stork UL Laboratory Canada Inc., Test Report No. IM-00009-A, dated 09/14/2023, signed and sealed by Alexis Spyrou, P.E.

#### C. CALCULATIONS

1. Anchor verification calculations, prepared by Rice Engineering, dated 08/07/2023, signed and sealed by Wayne K. Helmila, P.E.

#### D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

#### E. MATERIAL CERTIFICATIONS

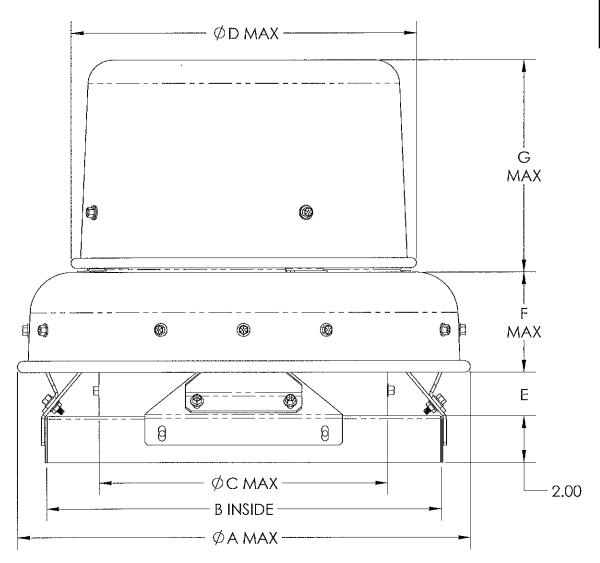
1. None.

#### F. STATEMENTS

- 1. Statement letter of code conformance to the 7<sup>th</sup> edition (2020) and 8<sup>th</sup> edition (2023) of the FBC, issued by Rice Engineering, dated 10/24/2023, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 08/24/2023, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 23-0918.01

Expiration Date: October 26, 2028 Approval Date: October 26, 2023



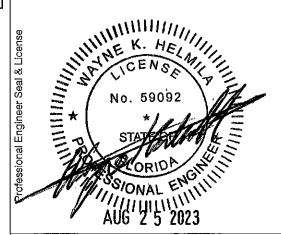
VC SIZE	Α	В	С	D	E	F	G	WEIGHT.(LB)
077	19.50	17.00	12.47	14.87	1,88	4.31	9.17	44
083	19.50	17.00	12.47	14.87	1.88	4.31	9.17	40
085	19.50	17.00	12.47	14.87	1.88	4.31	9.17	40
089	22.00	17.00	15.47	17.44	2.67	5.57	9.06	46
098	22.00	17.00	15.47	17.44	2.67	5.57	9.06	46
112	22.00	17.00	15.47	17.44	2.67	5.57	9.06	48
120	22.00	17.00	15,47	17.44	2.67	5.57	9.06	48

**PRODUCT APPROVED** As complying with the Florida Building Code NOA-No.

23-0918.01 Approval Date: 10/26/2023

By: Hum

Miami-Dade Product Control



**RICE** 

**ENGINEERING** 

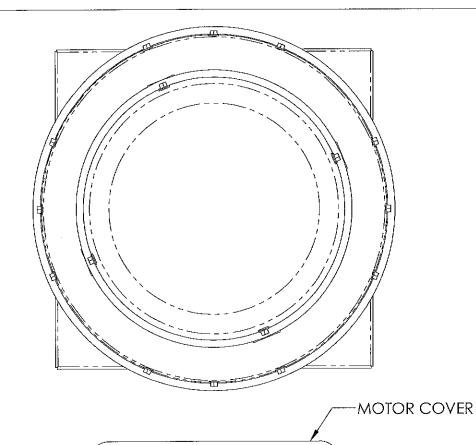
105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmlla Registration No: 59092

	E	SM	08/23/23	SM	08/23/23	DESIGN PRE UPDATED	SSURE OF VO	CU, VCUE
DRAWN BY SM	REV	REV BY	REV DATE	APP BY	APP DATE	D	ESCRIPTION	
10/18/22 APP 8Y SM	-	11	T	<b>-</b> [			Trenton Lan apolis, MN &	
10/18/22			TWIN	ITY FA	<del>-</del> N	ISO-90	001:REGISTE	RED
	1	'C SUM	IMARY DADE AP	PROV <i>A</i>	ΛL.			
3RD ANGLE	DRAV	VING NO. 00240			ROW	ITEM _	SHEET 1 OF 13	REV.

#### NOTES:

- 1. MODEL VC HAVE BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH THE MIAMI-DADE TEST PROTOCOL TAS-201 (LARGE MISSLE IMPACT) AND TAS-202 (STATIC LOADING).
- 2. THIS FAN HAS NOT BEEN TESTED FOR WIND DRIVEN RAIN PER FBC, TAS 100(A).
- 3. THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
- 4. ROOF STRUCTURE MUST BE DESIGNED TO WITHSTAND THE WEIGHT AND LOADING TRANSMITTED BY ROOF TOP FANS. FASTENERS SHALL BE AS SPECIFIED AND INSTALLED AS DETAILED.
- 5. DESIGN TESTING AND INSTALLATION CONFORMS TO THE FLORIDA BUILDING CODE 7TH EDITION (2020) AND FLORIDA BUILDING CODE 8TH EDITION (2023).
- 6. FAN CURBS MUST BE ANCHORED TO ROOF FRAMING MEMBERS AND NOT TO THE ROOFING SYSTEM.
- 7. DRIL-FLEX SELF DRILLING SCREWS AND WOOD SCREWS TO BE SEALED WITH PROSOCO LIQUID FLASHING OR EQUAL.



**®** 

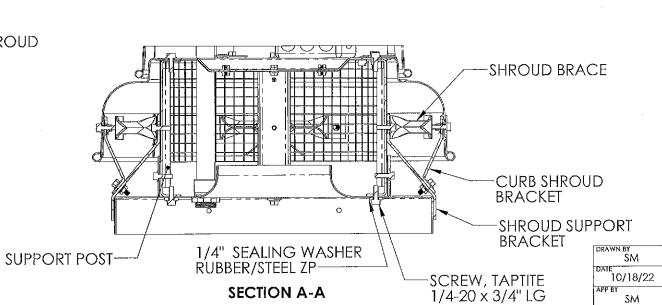
8

-SHROUD

CUTOFF

CURB CAP

DESIGN LI/	VITS
MAX: DESIGN LOAD:	±150 psf (7.18 kPa)
MAX: OVERALL UNIT HEIGHT:	17,30 in (0.44 m)
MAX: ENCLOSURE DIAMETER:	22.00 in (0.56 m)



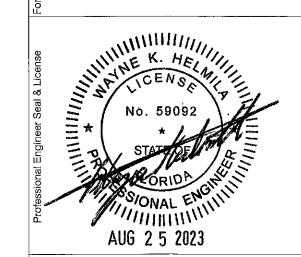
PRODUCT APPROVED

As complying with the Florida Building Code 23-0918.01 NOA-No.

Approval Date: 10/26/2023

By:

Miami-Dade Product Control



## **RICE**

**ENGINEERING** 

105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

08/23/23 DESIGN PRESSURE OF VCU, VCUB UPDATED SM 08/23/23 SM REV REV BYREV DATE APP BY APP DATE DESCRIPTION

5959 Trenton Lane N Minneapolis, MN 55442 ISO-9001:REGISTERED

**VC SUMMARY** MIAMI-DADE APPROVAL

DRAWING NO. 3RD ANGLE PROJECTION

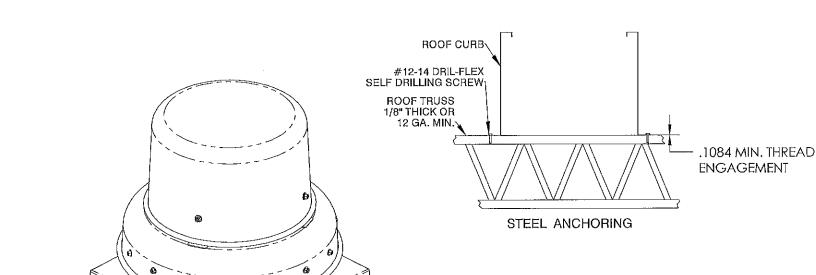
TITLE

10/18/22

500024054

2 OF 13

E



ROOF CURBY

#10 ZINC PLATED

WOOD TIMBER

MIN. S.G = 0.55

MIN. 2" NOM, THICKNESS

1.50 MIN. THREAD

BY DRILLING 1/4" PILOT HOLES IN THE CURB

REQUIRED PER CURB SIDE.

FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM.

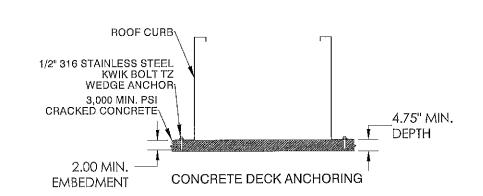
SEE TABLE FOR MINIMUM QUANTITY OF ANCHORS

**PENETRATION** 

WOOD SCREW

### DRIL-FLEX SELF DRILLING SCREWS AND WOOD SCREWS TO BE SEALED WITH PROSOCO LIQUID FLASHING OR EQUAL

			FASTENER TAB	LE	
	VC SIZE	MINIMUM NI TO ATTACI	MIN, NUMBER OF FASTENERS PER SIDE TO		
,	V C 312L	STEEL ANCHORING	CONCRETE DECK ANCHORING	TIMBER ANCHORING	ATTACH UNIT
	077	3	3	3	4
	083	3	3	3	4
	085	3	3	3	4
	089	3	3	3	4
	098	3	3	3	4
	112	3	3	3	4
	120	3	3	3	4



#### **CURB NOTES:**

TIMBER ANCHORING

- ROOF CURB MODEL RCSF, RCSFV, RCSA OR EQUIVALENT WELDED
  - CONSTRUCTION. NO WOOD NAILER.

     MATERIAL: 18 GA GALVANIZED STEEL
- 0.063 ALUMINUM UNIT TO BE ATTACHED TO CURB USING #12-14 DRIL-FLEX SELF DRILLING SCREWS OR EQUIVALENT. LOCATED 3" FROM EACH CORNER AND THROUGH SUPPORT BRACKET (LOCATED 5" FROM EACH
- ANY GAP BETWEEN THE CURB AND FASTENER SHALL BE FILLED BY THE INSTALLING CONTRACTOR WITH A SUITABLE CORROSION
- RESISTANT MATERIAL THAT ALLOWS THE FASTENERS TO BE INSTALLED WITHOUT CAUSING EXCESSIVE DISTORTION ON THE UNIT FLANGES.
- CURB MUST BE ATTACHED TO A STRUCTURAL MEMBER OF THE BUILDING
- CONCRETE DECK
  - CURB ANCHORAGE SHOULD BE INTO MINIMUM 3000 PSI CRACKED CONCRETE, WITH A MINIMUM SLAB DEPTH OF 4.75"
  - USE 1/2" DIA. STAINLESS STEEL HILTI KWIK BOLT TZ EXPANSION ANCHORS OR EQUIVALENT. ANCHORS SHALL HAVE A MINIMUM 2" EMBEDMENT. FASTENERS TO BE EQUALLY SPACED. MAXIMUM ON CENTER SPACING OF 10-1/4" WITH 4-1/2" MINIMUM SPACING AND 3-1/2" MINIMUM EDGE DISTANCE.
- STEEL ROOF STRUCTURE

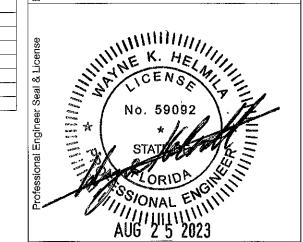
  - SHOULD BE INTO MINIMUM 12 GA OR 1/8" THICK STEEL MEMBER.
    USE #12-14 DRIL-FLEX SELF DRILLING SCREWS OR
    EQUIVALENT. SCREWS SHALL HAVE A MINIMUM THREAD ENGAGEMENT OF .1084". FASTENERS TO BE EQUALLY SPACED. MAXIMUM ON CENTER SPACING OF 10-1/4"
    WITH 11/16" MINIMUM SPACING AND 3/8" MINIMUM EDGE DISTANCE.
- TIMBER ROOF STRUCTURE
  - SHOULD BE MINIMUM S.G.=0.55
  - USE #10 ZINC PLATED WOOD SCREWS OR EQUIVALENT. SCREWS SHALL HAVE A MINIMUM THREAD PENETRATION OF 1-1/2". FASTENERS TO BE EQUALLYSPACED. MAXIMUM ON CENTER SPACING OF 16-3/4" WITH 3/4" MINIMUM SPACING, 3/4" MINIMUM EDGE DISTANCE AND 1.316" MINIMUM END DISTANCE.

**PRODUCT APPROVED** As complying with the Florida Building Code

23-0918.01 NOA-No.

Approval Date: 10/26/2023

Miami-Dade Product Control



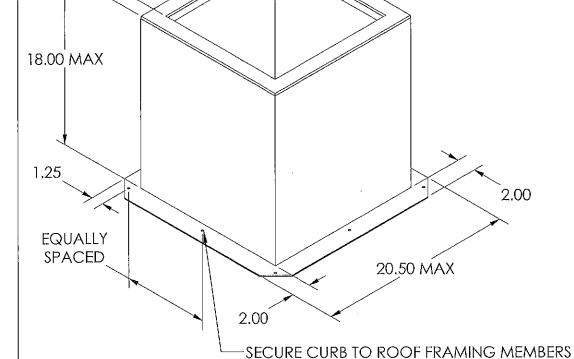
#### RICE

#### **ENGINEERING**

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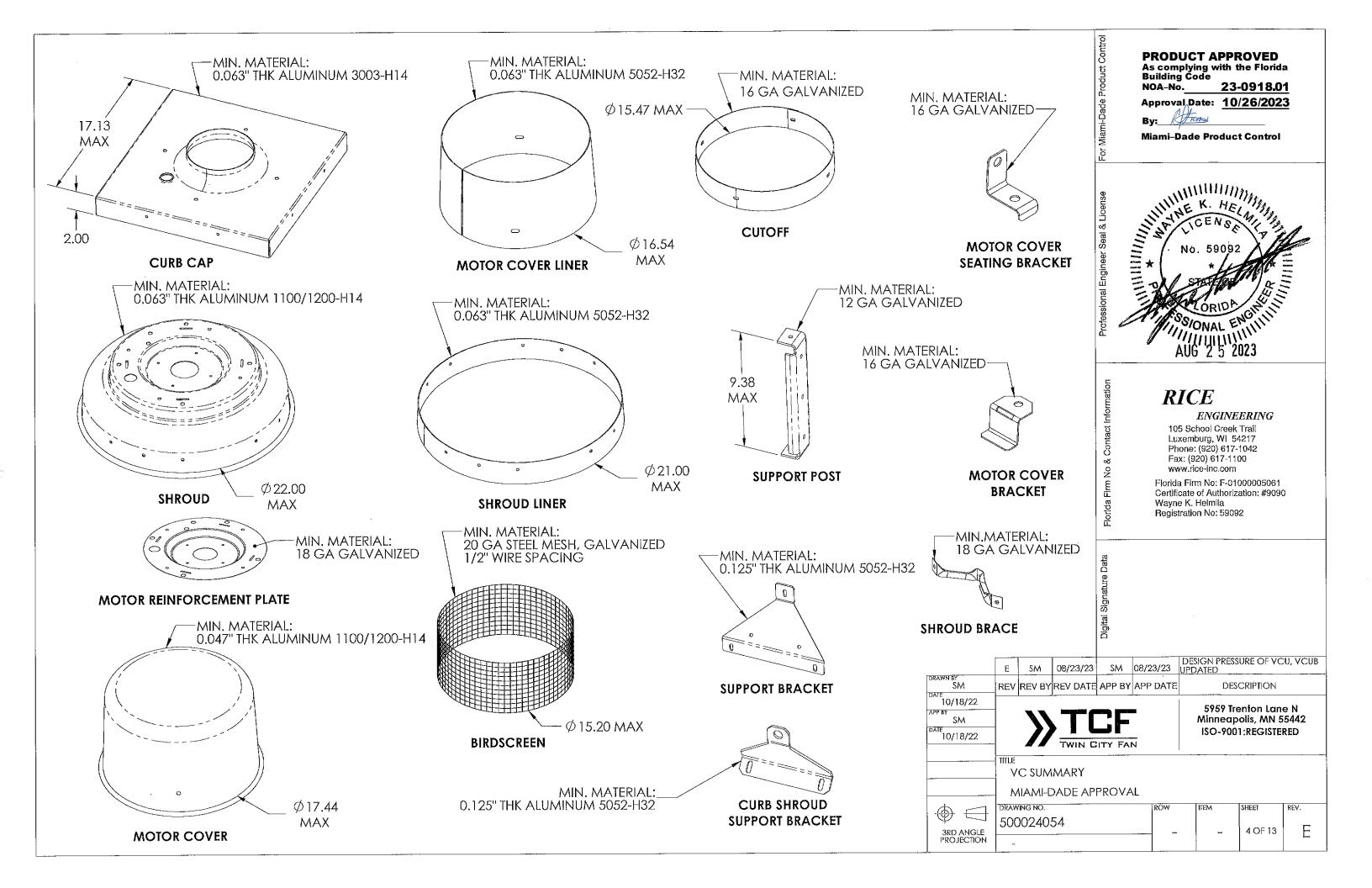
Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

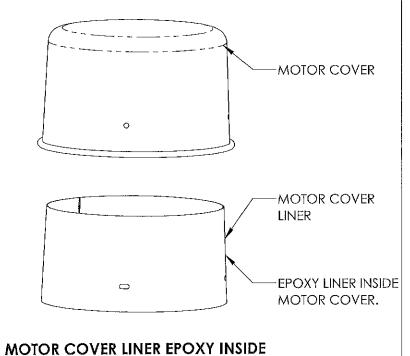
DESIGN PRESSURE OF VCU, VCUB 08/23/23 SM 08/23/23 SM REV REV BY REV DATE APP BY APP DATE DESCRIPTION 10/18/22 5959 Trenton Lane N SM Minneapolis, MN 55442 ISO-9001:REGISTERED 10/18/22 TITLE VC SUMMARY MIAMI-DADE APPROVAL DRAWING NO.  $\bigoplus$ 500024054 E 3RD ANGLE 3 OF 13



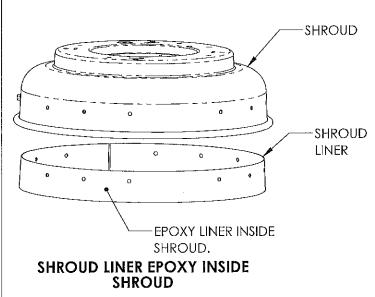
16.50 MAX

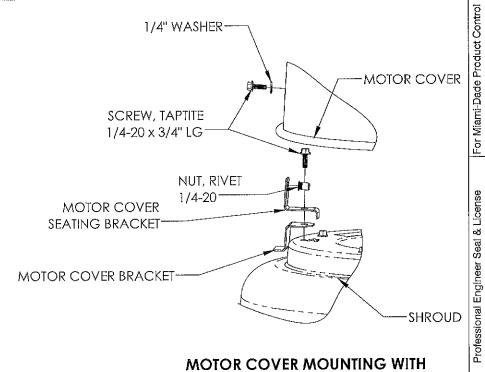
13.50 MAX





MOTOR COVER





SHROUD

PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. 23-0918.01
Approval Date: 10/26/2023
By:
Miami-Dade Product Control

No. 59092

\*\*
No. 59092

**RICE** 

**ENGINEERING** 

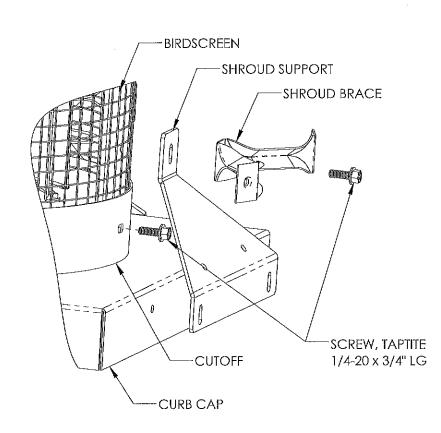
105 School Creek Trail

Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100

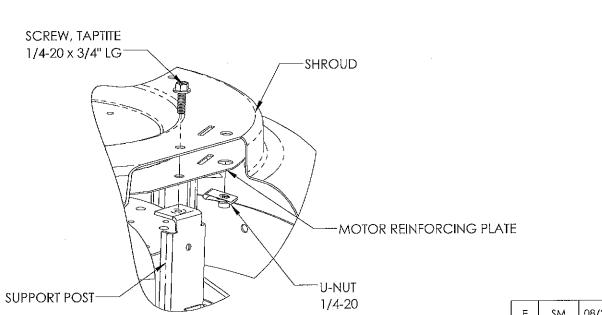
Florida Firm No: F-01000005061 Certificate of Authorization: #9090

www.rice-inc.com

Wayne K. Helmila Registration No: 59092

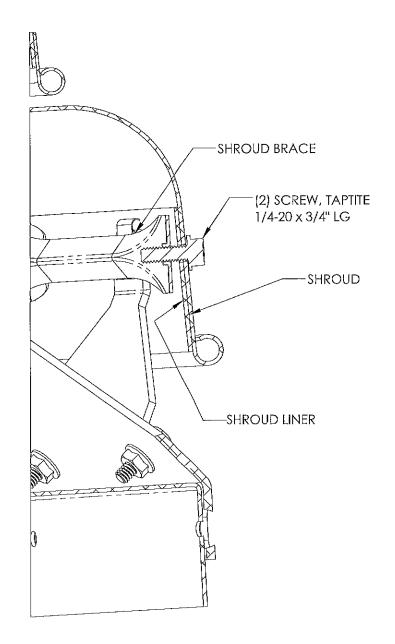


SHROUD SUPPORT MOUNTING WITH BIRDSCREEN, CUTOFF & SUPPORT POST

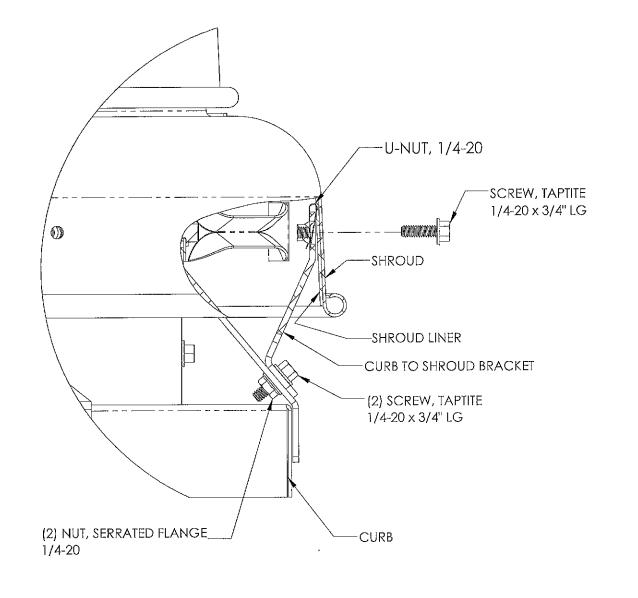


SUPPORT POST MOUNTING WITH SHROUD & DECK PLATE

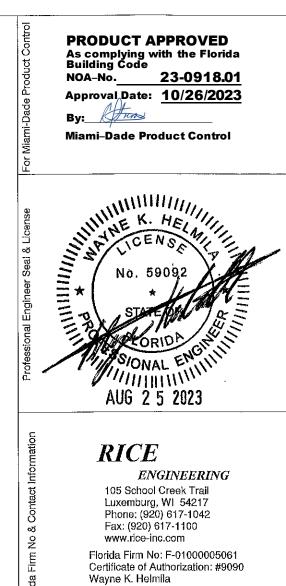
FORCING PLAT	E			Digital Signat					
	E	SM	08/23/23	SM	08/23/23	DESIGN I		URE OF VC	CU, VCUB
DRAWN BY SM	REV	REV BY	REV DATE	APP BY	APP DATE		DES	CRIPTION	
10/18/22 APP BY SM DATE 10/18/22		<b>&gt;&gt;&gt;</b>	TWIN	ITY FAI	• Z	Minr	neap	enton Lan olis, MN 5 1:REGISTE	5442
	1	'C SUM MAMI-E	IMARY DADE AP	PROVA	\L				
3RD ANGLE PROJECTION	1	00240 00240	54		ROW	ITEM		SHEET 5 OF 13	REV.



SHROUD MOUNTING WITH SHROUD BRACE



SHROUD MOUNTING WITH CURB SHROUD SUPPORT BRACKET



Registration No: 59092

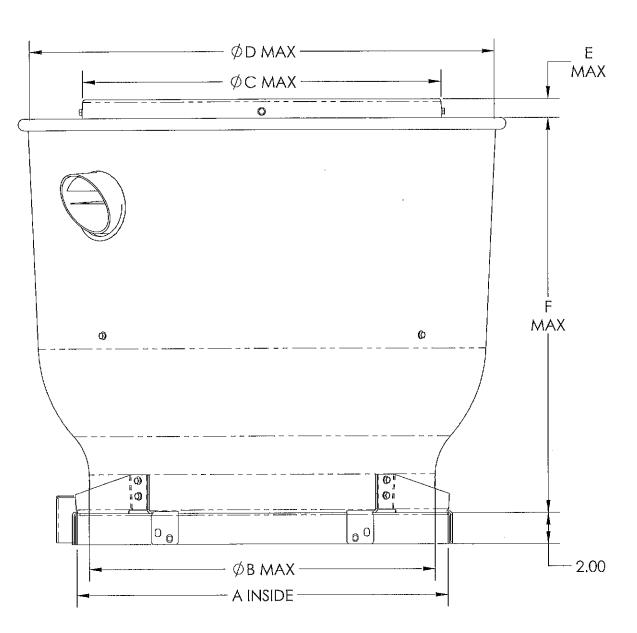
08/23/23 SM 08/23/23 DESIGN PRESSURE OF VCU, VCUB UPDATED

E

6 OF 13

REV REV BY REV DATE APP BY APP DATE DESCRIPTION 10/18/22 5959 Trenton Lane N Minneapolis, MN 55442 ISO-9001:REGISTERED 10/18/22 TITLE **VC SUMMARY** MIAMI-DADE APPROVAL DRAWING NO. REV. 500024054

3RD ANGLE PROJECTION



MODEL	SIZE	Α	В	С	D	Е	F	WEIGHT (LB)
VCU	085	17.00	15.13	15.42	22.00	0.20	18.00	60
VCU	089	20.00	15.13	15.42	22.00	0.20	18.00	65
VCU	098	20.00	15.13	15.42	22.00	0.20	18,00	65
VCU	110	20.00	15.13	15,42	22.00	0.20	18.00	65
VCU	112	20.00	15.13	15.42	22.00	0.20	18.00	65
VCU/VCUB	122	24.00	22.21	23.15	30.00	1.22	25.44	95
VCU/VCUB	124	24.00	22.21	23.15	30.00	1.22	25.44	95
VCU/VCUB	135	24.00	22,21	23.15	30.00	1.22	25,44	95
VCU/VCUB	140	24.00	22.21	23.15	30.00	1.22	25.44	100
VCU/VCUB	150	24.00	22.21	23.15	30.00	1.22	25.44	100
VCU/VCUB	157	24.00	22.21	23.15	30.00	1.22	25.44	100
VCU/VCUB	165	24.00	22.21	23,15	30.00	1.22	25.44	100
VCU/VCUB	177	30.00	26.98	25.63	36,13	3.20	30.00	140
VCU/VCUB	182	30.00	26.98	25.63	36.13	3.20	30.00	140
VCU/VCUB	197	30.00	26.98	25.63	36.13	3.20	30.00	140

# **PRODUCT APPROVED** As complying with the Florida Building Code 23-0918.01 NOA-No. Approval Date: 10/26/2023 **Miami-Dade Product Control** ssional Engineer Seal & Lice MINIMININI AUG 2 5 2023

## **RICE**

**ENGINEERING** 

105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

E SM 08/23/23 SM 08/23/23 DESIGN PRESSURE OF VCU, VCUB UPDATED  DRAWN BY SM REV REV BY REV DATE APP BY APP DATE DESCRIPTION	10/18/22 APP BY SM DATE 10/18/22		<b>&gt;&gt;</b>	TWIN	ITY FAI	- N	5959 Trenton Lane N Minneapolis, MN 55442 ISO-9001:REGISTERED
		REV	REV BY	REV DATE	APP BY	APP DATE	DESCRIPTION
		E	SM	08/23/23	SM	08/23/23	

VCU/VCUB SUMMARY

MIAMI-DADE APPROVAL

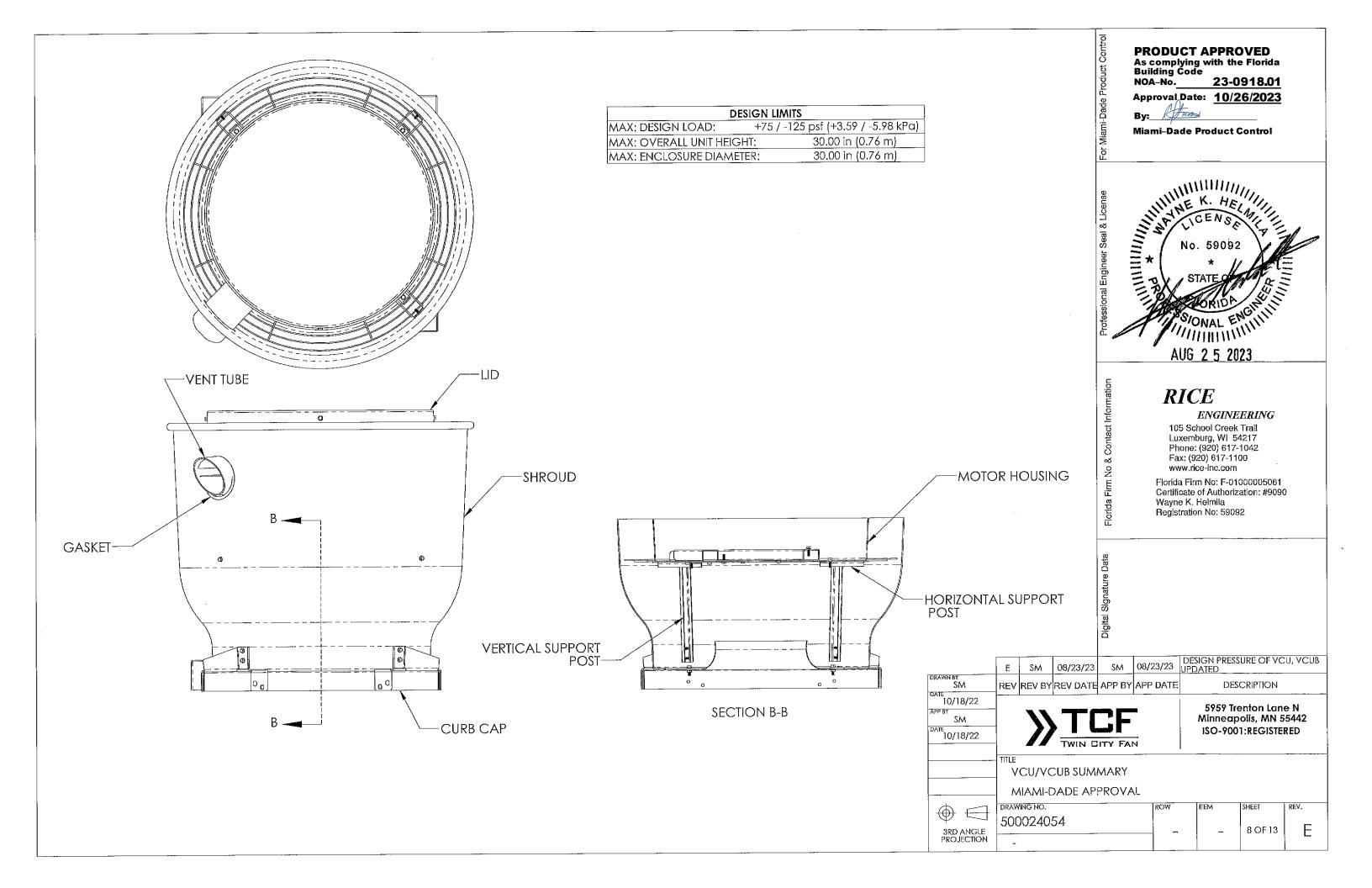
3RD ANGLE PROJECTION

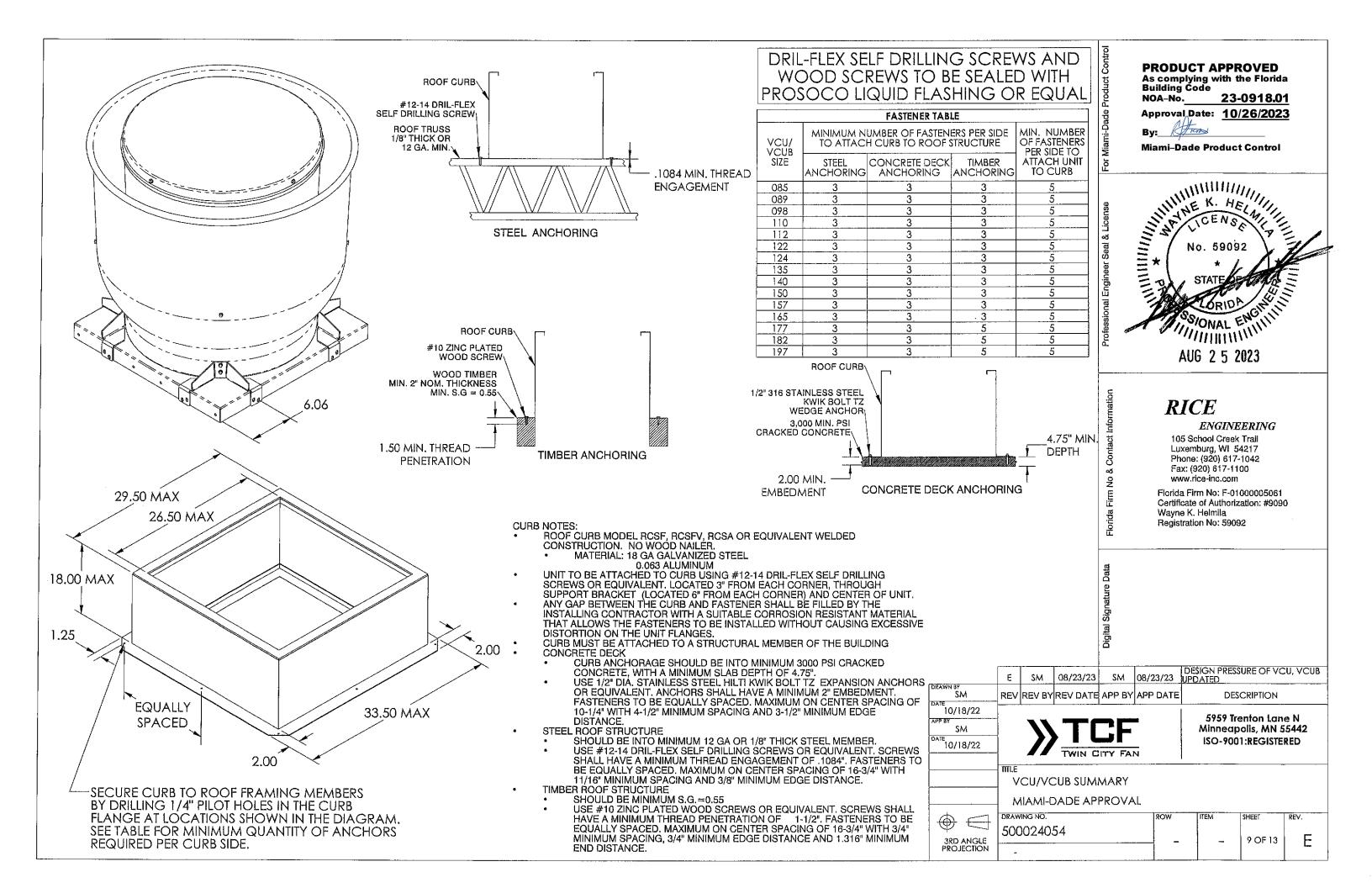
DRAWING NO. 500024054

E 7 OF 13

#### NOTES:

- 1. MODEL VCU/VCUB HAVE BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH THE MIAMI-DADE TEST PROTOCOL TAS-201 (LARGE MISSLE IMPACT) AND TAS-202 (STATIC LOADING).
- 2. THIS FAN HAS NOT BEEN TESTED FOR WIND DRIVEN RAIN PER FBC, TAS 100(A).
- 3. THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
- 4. ROOF STRUCTURE MUST BE DESIGNED TO WITHSTAND THE WEIGHT AND LOADING TRANSMITTED BY ROOF TOP FANS. FASTENERS SHALL BE AS SPECIFIED AND INSTALLED AS DETAILED.
- 5. DESIGN TESTING AND INSTALLATION CONFORMS TO THE FLORIDA BUILDING CODE 7TH EDITION (2020). AND FLORIDA BUILDING CODE 8TH EDITION (2023).
- 6. FAN CURBS MUST BE ANCHORED TO ROOF FRAMING MEMBERS AND NOT TO THE ROOFING SYSTEM.
- 7. DRIL-FLEX SELF DRILLING SCREWS AND WOOD SCREWS TO BE SEALED WITH PROSOCO LIQUID FLASHING OR EQUAL.





# 32.81 MAX 29.75 MAX SECURE BRACKET TO FRAMING MEMBERS. SEE 27.25 MAX TABLE FOR MINIMUM QUANTITY OF ANCHORS REQUIRED PER BRACKET SIDE. .63 1.53 7.41 TY 10.00 MAX

2.00 MIN. →

**EMBEDMENT** 

3,000 MIN. PSI

KWIK BOLT TZ

BRACKET

4.75" MIN.

DEPTH

CONCRETE DECK ANCHORING

WEDGE ANCHOR

CRACKED CONCRETE

1/2" 316 STAINLESS STEEL

ROOF TRUSS 1/8" THICK OR

12 GA. MIN.

BRACKET

.1084 MIN. THREAD

**ENGAGEMENT** 

STEEL ANCHORING

#12-14 DRIL-FLEX

SELF DRILLING SCREW

## WOOD SCREWS TO BE SEALED WITH PROSOCO LIQUID FLASHING OR EQUAL

		FASTENER TAB	LE	
VCU/ VCUB	MINIMUM N TO ATTACH	MIN. NUMBER OF FASTENERS PER SIDE TO		
SIZE	STEEL ANCHORING	CONCRETE DECK ANCHORING	TIMBER ANCHORING	ATTACH UNIT
085	3	3	3	5
089	3	3	3	5
098	3	3	3	5
110	3	3	3	5
112	3	3	3	5
122	3	3	3	5
124	3	3	3	5
135	3	3	3	5
140	3	3	3	5
150	3	3	3	5
157	3	3	3	5
165	3	3	3	5
177	3	3	4	5
182	3	3	4	5
107	2	3	1	5

#### WALL BRACKET NOTES:

MATERIAL: 0.160 ALUMINUM 5052-H32

UNIT TO BE ATTACHED TO WALL BRACKET USING 5/16-18 SCREWS OR EQUIVALENT. LOCATED 3" FROM EACH CORNER, THROUGH SUPPORT BRACKET (LOCATED 6" FROM EACH CORNER) AND CENTER OF UNIT.

ANY GAP BETWEEN THE CURB AND FASTENER SHALL BE FILLED BY THE INSTALLING CONTRACTOR WITH A SUITABLE CORROSION RESISTANT MATERIAL THAT ALLOWS THE FASTENERS TO BE INSTALLED WITHOUT CAUSING EXCESSIVE DISTORTION ON THE UNIT FLANGES.

BRACKET MUST BE ATTACHED TO A STRUCTURAL MEMBER OF THE BUILDING CONCRETE STRUCTURE

BRACKET ANCHORAGE SHOULD BE INTO MINIMUM 3000 PSI CRACKED CONCRETE, WITH A MINIMUMSLAB DEPTH OF 4.75".

USE 1/2" DIA. STAINLESS STEEL HILTI KWIK BOLT TZ EXPANSION ANCHORS OR EQUIVALENT. ANCHORS SHALL HAVE A MINIMUM 2" EMBEDMENT. FASTENERS TO BE EQUALLY SPACED, MAXIMUM ON CENTER SPACING OF 10-1/4" WITH 4-1/2" MINIMUM SPACING AND 3-1/2" MINIMUM EDGE DISTANCE.

STEEL STRUCTURE

SHOULD BE INTO MINIMUM 12 GA OR 1/8" THICK STEEL MEMBER

USE #12-14 DRIL-FLEX SELF DRILLING SCREWS OR EQUIVALENT. SCREWS SHALL HAVE A MINIMUM THREAD ENGAGEMENT OF .1084". FASTENERS TO BE EQUALLY SPACED. MAXIMUM ON CENTER SPACING OF 16-3/4" WITH 11/16" MINIMUM SPACING AND 3/8" MINIMUM EDGE DISTANCE.

TIMBER STRUCTURE

SHOULD BE MINIMUM S.G.=0.55

USE #10 ZINC PLATED WOOD SCREWS OR EQUIVALENT. SCREWS SHALL HAVE A MINIMUM THREAD PENETRATION OF 1-1/2". FASTENERS TO BE EQUALLY SPACED. MAXIMUM ON CENTER SPACING OF 16-3/4" WITH 3/4" MINIMUM SPACING, 3/4" MINIMUM EDGE DISTANCE AND 1.316" MINIMUM END DISTANCE

# DRIL-FLEX SELF DRILLING SCREWS AND

		FASTENER TAB	<u>LE</u>		g	Approval Date: 10/20/2023
VCU/ VCUB	MINIMUM N TO ATTACH	UMBER OF FASTEN BRACKET TO WALI	ERS PER SIDE L STRUCTURE	MIN. NUMBER OF FASTENERS PER SIDE TO	Miami-Dad	By: Africano By: Miami–Dade Product Control
SIZE	STEEL ANCHORING	CONCRETE DECK ANCHORING	TIMBER ANCHORING	ATTACH UNIT TO BRACKET	P	
085	3	3	3	5		No. 59092
089	3	3	3	5	m	WE K. HE.
098	3	3	3	5	SUS	MILITARY WILL
110	3	3	3	5	<u>  ម៉</u>	PAN LOENSE S
112	3	3	3	5	≪	ZZ/ * \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
122	3	3	3	. 5	Seal	₹ / No. 59092
124	3	3	3	5		***
135	3	3	3	5	Engineer	LATERIAL
140	3	3	3	5	ļģ.	= OV SIAMO
150	3	3	3	5	1 '	- 10 Marie 1 14 3
157	3	3	3	5	ma	ORIU
165	3	3	3	5	ssic	MINSIONAL ENVILLE
177	3	3	4	5	Professional	STATE OF THE STATE
182	3	3	4	5	I	Commun.

## **RICE**

**PRODUCT APPROVED** 

NOA-No.

As complying with the Florida Building Code

Approval Date: 10/26/2023

23-0918.01

-ENGINEERING ---

MONAL ENGILLI

AUG 2 5 2023

105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

10 OF 13

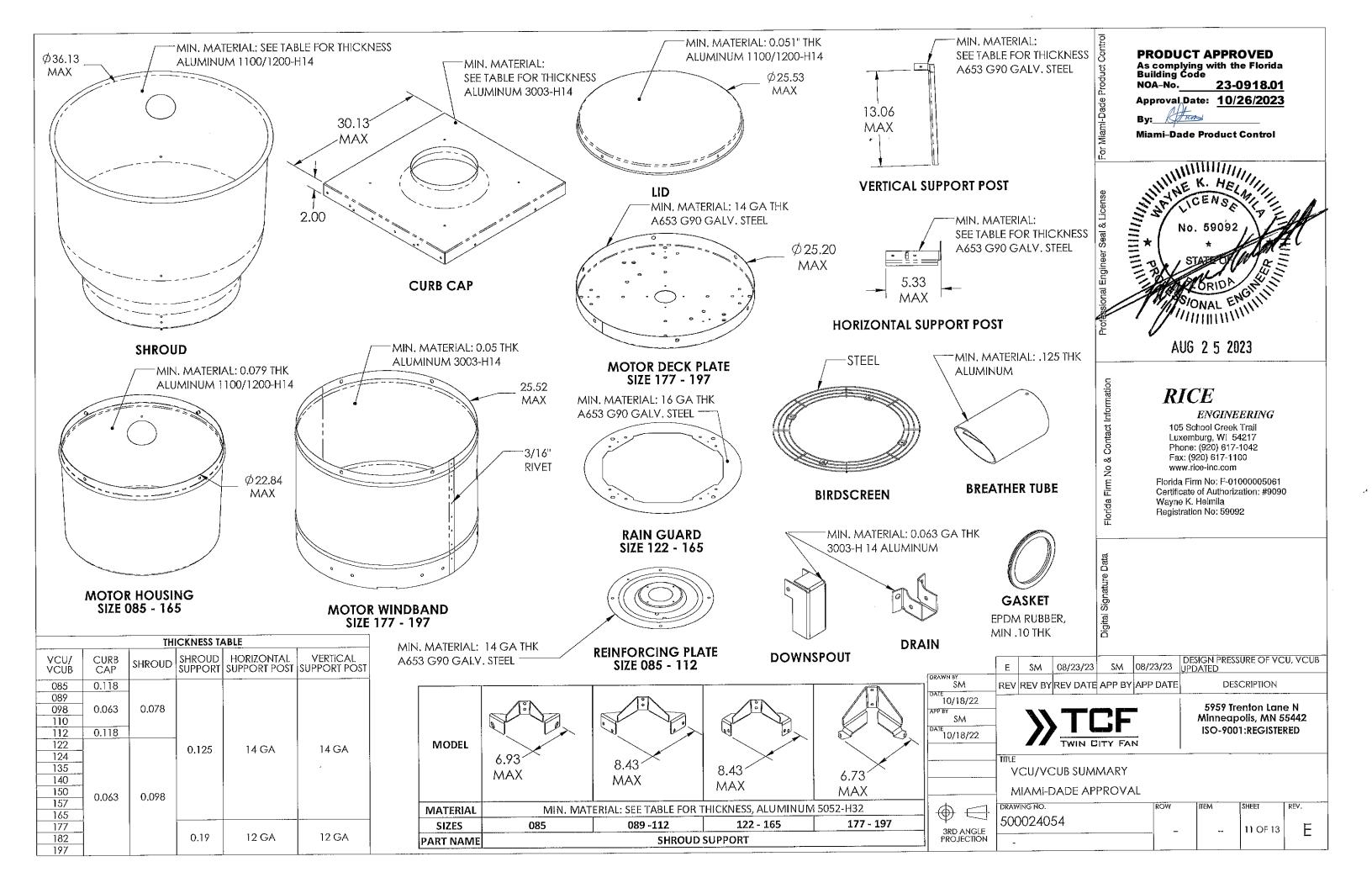
WOOD TIMBER 1.50 MIN, THREAD MIN. 2" NOM. THICKNESS PENETRATION MIN. S.G = 0.55#10 ZINC PLATED WOOD SCREW

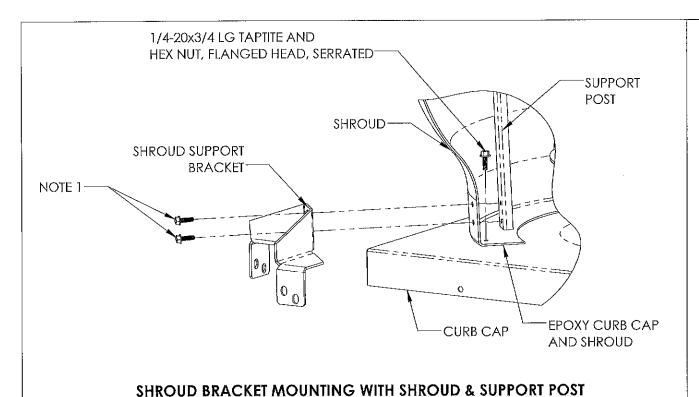
	E	SM	08/23/23	SM	08/23/23	DESIGN PRESSURE OF VI UPDATED	CU, VCUB
DRAWN BY SM DATE	REV	REV BY	REV DATE	APP BY	APP DATE	DESCRIPTION	
10/18/22 APP BY SM DATE 10/18/22		<b>&gt;&gt;</b>	TWIN	ITY FAI	<u> </u>	5959 Trenton La Minneapolis, MN ISO-9001:REGISTI	55442
	TITLE		CUB SUM	MARY			
	_	4IAMI-E	DADE AP	PROVA	۸L		
A	DRAY	VING NO.			ROW	ITEM SHEET	REV.

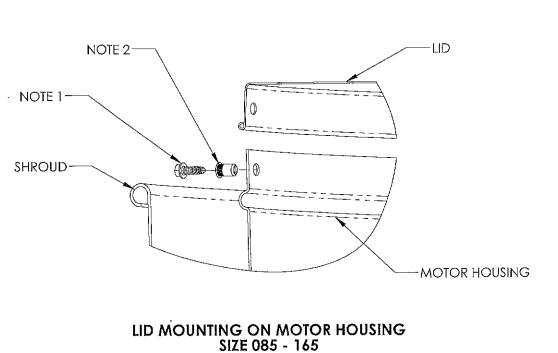
500024054

3RD ANGLE

BRACKET TIMBER ANCHORING







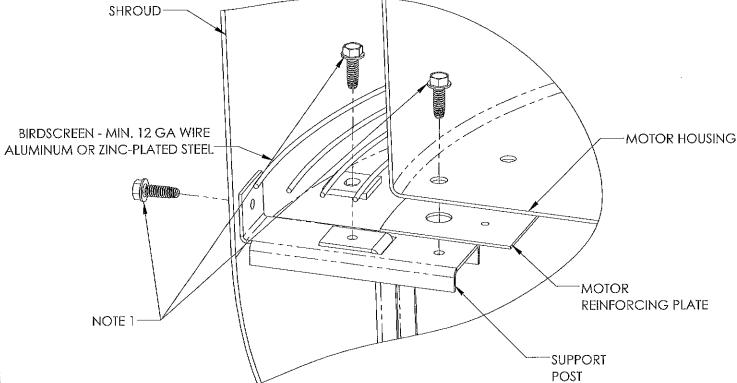
PRODUCT APPROVED
As complying with the Florida
Building Code
NOA-No. 23-0918.01
Approval Date: 10/26/2023
By:
Miami-Dade Product Control

No. 59092

STATE

AUG 2 5 2023



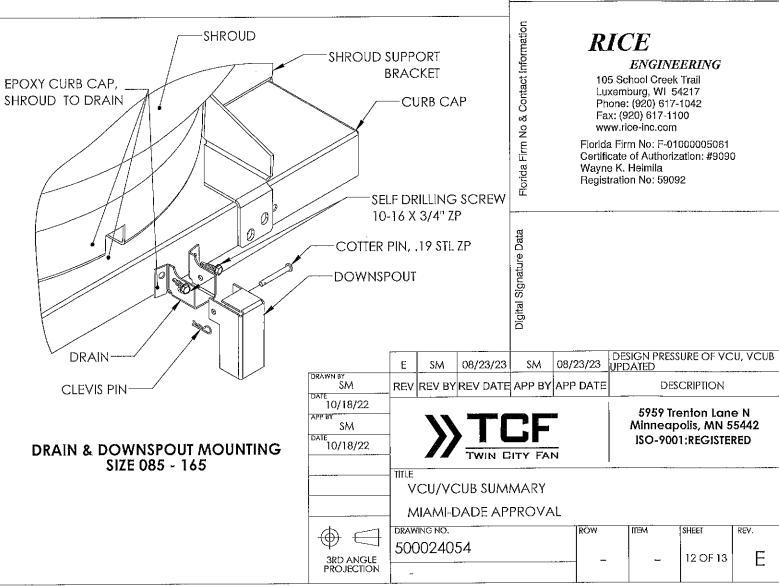


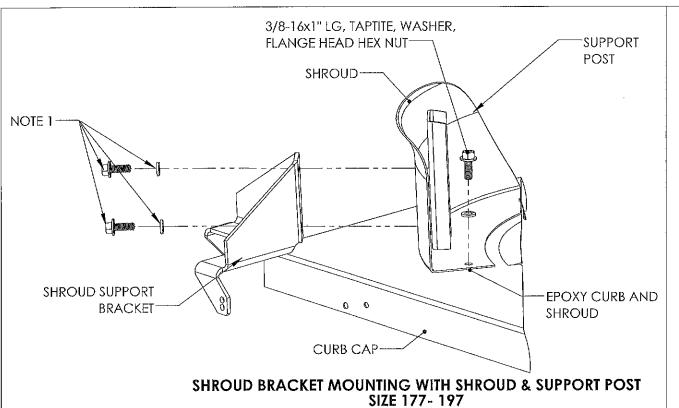
BIRDSCREEN MOUNTING WITH SUPPORT POST & MOTOR HOUSING SIZE 085 - 165

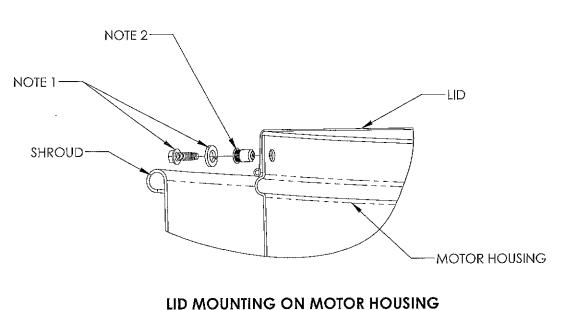
#### NOTES:

01. SIZES  $085-165 = 1/4-20 \times 3/4$ " LG, TAPTITE SCREW, FLANGED, SERRATED

02. SIZES 085-165 = 1/4-20 RIVET NUT, KNURLED BODY







SIZE 177 - 197

**PRODUCT APPROVED** As complying with the Florida Building Code NOA-No. 23-0918.01 Approval Date: 10/26/2023 Hum Miami-Dade Product Control No No No MOONAL ENGINITY AUG 2 5 2023

3/8-16 U-TYPE NUT MOTOR HOUSING-BIRDSCREEN - MIN. 12 GA WIRE ALUMINUM OR ZINC-PLATED STEEL-MOTOR DECK PLATE NOTE 1 NOTE 1 NOTE 1 SUPPORT POST **BIRDSCREEN MOUNTING** SHROUD-WITH SUPPORT POST & MOTOR HOUSING SIZE 177 - 197

SHROUD-SHROUD SUPPORT BRACKET SELF DRILLING SCREW 10-16 X 3/4" ZP COTTER PIN, .19 STL ZP DOWNSPOUT CURB CAP-DRAIN: SM 08/23/23 SM CLEVIS PIN-EPOXY CURB CAP, DRAWN BY REV REV BY REV DATE APP BY APP DATE SHROUD TO DRAIN

RICE

**ENGINEERING** 

105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

**DRAIN & DOWNSPOUT MOUNTING** SIZE 177- 197

5959 Trenton Lane N Minneapolis, MN 55442 ISO-9001:REGISTERED

Ε

DESIGN PRESSURE OF VCU, VCUB UPDATED

DESCRIPTION

VCU/VCUB SUMMARY

 $\bigoplus$ 3RD ANGLE

10/18/22

SM

10/18/22

MIAMI-DADE APPROVAL DRAWING NO.

500024054 13 OF 13

08/23/23

01. SIZES 177-197 = 3/8-16 x 1" LG, TAPTITE SCREW, FLANGED WITH 3/8" LOCK WASHER

02. SIZES 177-197 = 3/8-16 RIVET NUT, HEX BODY