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)

Greenheck Fan Corporation
1110 Greenheck Drive (PO Box 410)
Schofield, WI 54476

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 CUE/CW, CUBE/CWB, S-CUBE and G/GB Aluminum Rooftop and Sidewall Mounted Exhaust Fans

APPROVAL DOCUMENT: Drawing No. **HSA3001** to **HSA3009**, titled "Cue/Cube, G/GB and CW/CWB-060-300", sheets 1 through 9 of 9, dated 08/16/2024, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, P.E., bearing the Miami-Dade County Product Control renewal 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

LIMITATION: Models G-060 through G-133 and GB-071 through GB-131 are **not** Large Missile Impact Resistant.

LABELING: A permanent label with the manufacturer's name or logo, manufacturing plant's city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", is to be located on each unit.

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 NOA # 23-1120.06** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5, E-6 and E-7, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY APPROVED

10/07/24

NOA No. 24-0919.01
Expiration Date: September 23, 2025
Approval Date: October 17, 2024

Greenheck Fan Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA's

A. DRAWINGS *"Submitted under NOA # 13-0220.08"*

1. Drawing No. **HSA3001** to **HSA3008**, titled "Cue/Cube, G/GB and CW/CWB-060-300", sheets 1 through 8 of 8, dated 04/02, 05/26, 05/27, 05/29, 06/04/2009 and 01/12/2012, prepared by the manufacturer, signed and sealed by L. David Rice, P.E.

B. TESTS *"Submitted under NOA # 13-0220.08"*

1. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94,
3) Cyclic Wind Pressure Test per FBC, TAS 203-94,
along with marked-up drawings and installation diagram of Model Cube-300, CUBE-161/HP and CUE-075 Rooftop Ventilating Fans, prepared by Architectural Testing, Inc., Test Report No. **C0120.01-602-18**, dated 08/07/2012, with revision 2 dated 05/28/2013, signed and sealed by Shawn G. Collins, P.E.

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,
3) Cyclic Wind Pressure Test per FBC, TAS 203-94,
along with marked-up drawings and installation diagram of Model GB-300, GB-161/HP and GB-141/HP Rooftop Ventilating Fans, prepared by Architectural Testing, Inc., Test Report No. **C0120.02-602-18**, dated 08/07/2012, with revision 2 dated 05/28/2013, signed and sealed by Shawn G. Collins, P.E.

"Submitted under NOA # 12-0120.13"

3. Test report on Large Missile Impact Test per FBC, TAS 201-94 of Model Cube-300 Side Wall Ventilating Fans, prepared by Architectural Testing, Inc., Test Report No. **B3520.01-602-18**, dated 11/18/2011, signed and sealed by Shawn G. Collins, P.E.

"Submitted under NOA # 09-0624.09"

4. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94,
3) Cyclic Wind Pressure Test per FBC, TAS 203-94,
along with marked-up drawings and installation diagram of Model Cube-300 Belt Drive Rooftop Ventilating Fans, prepared by Architectural Testing, Inc., Test Report No. **88029.01-602-18**, dated 02/04/2009, signed and sealed by Joseph A. Reed, P.E.

5. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94,
3) Cyclic Wind Pressure Test per FBC, TAS 203-94,
along with marked-up drawings and installation diagram of Model GB-300 Belt Drive Rooftop Ventilating Fans, prepared by Architectural Testing, Inc., Test Report No. **88799.01-602-18**, dated 04/06/2009, signed and sealed by Joseph A. Reed, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0919.01
Expiration Date: September 23, 2025
Approval Date: October 17, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS ***"Submitted under NOA # 13-0220.08"***

1. Anchor verification calculations, prepared by Rice Engineering, dated 03/05/2012, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 12-0120.13"

2. Anchor verification calculations, prepared by Rice Engineering, dated 03/05/2012, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 09-0624.09"

3. Anchor verification calculations, prepared by Rice Engineering, dated 06/12/2009, signed and sealed by L. David Rice, 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 # 16-0209.05"***

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Rice Engineering, dated 01/06/2016, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 14-0731.03"

2. Statement letter of code conformance to 2010 FBC, issued by Rice Engineering, dated 07/22/2014, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 13-0220.08"

3. No financial interest letter issued by Rice Engineering, dated 01/17/2013, signed and sealed by L. David Rice, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0919.01
Expiration Date: September 23, 2025
Approval Date: October 17, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 19-0205.08

A. DRAWINGS

1. Drawing No. **HSA3001** to **HSA3008**, titled "Cue/Cube, G/GB and CW/CWB-060-300", Sheets 1 through 8 of 8, dated 04/02, 05/26, 05/27, 05/29, 06/04/2009 and 01/12/2012, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, P.E. on 01/21/2019.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations prepared by Rice Engineering, dated 01/15/2019, 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 6th edition (2017) FBC, dated 01/14/2019, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

2. Statement letter of no financial interest issued by Rice Engineering, dated 01/14/2019, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0919.01
Expiration Date: September 23, 2025
Approval Date: October 17, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 19-0717.02

A. DRAWINGS

1. Drawing No. **HSA3001** to **HSA3008**, titled "Cue/Cube, G/GB and CW/CWB-060-300", Sheets 1 through 8 of 8, dated 04/02, 05/26, 05/27, 05/29, 06/04/2009 and 01/12/2012, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, P.E. on 09/05/2019.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

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) FBC, dated 09/03/2019, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

2. Statement letter of no financial interest issued by Rice Engineering, dated 09/03/2019, signed and sealed by Wayne K. Helmila, P.E.

G. OTHERS

1. Test proposal **#19-0535**.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0919.01
Expiration Date: September 23, 2025
Approval Date: October 17, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. Evidence submitted under NOA # 21-0318.05

A. DRAWINGS

1. Drawing No. **HSA3001** to **HSA3008**, titled "Cue/Cube, G/GB and CW/CWB-060-300", Sheets 1 through 8 of 8, dated 04/02, 05/26, 05/27, 05/29, 06/04/2009 and 01/12/2012, prepared by Greenheck Fan Corporation, signed and sealed by Robert J. Amoruso, P.E. on 03/08/2021.

B. TESTS

1. None.

C. CALCULATIONS

1. Curb to deck/sidewall mounting anchor calculations for the rooftop and sidewall mounted fans, prepared by PTC Product Design Group, LLC, dated 02/24/2021, signed and sealed by Robert J. Amoruso, 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 7th edition (2020) of the FBC and of no financial interest, dated 03/08/2021, issued by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0919.01
Expiration Date: September 23, 2025
Approval Date: October 17, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. Evidence submitted under NOA # 21-1129.02

A. DRAWINGS

1. Drawing No. **HSA3001** to **HSA3008**, titled "Cue/Cube, G/GB and CW/CWB-060-300", sheets 1 through 8 of 8, dated 04/02, 05/26, 05/27, 05/29, 06/04/2009 and 01/12/2012, with revision 8 dated 10/19/2021, prepared by Greenheck Fan Corporation, signed and sealed by Robert J. Amoruso, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

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 7th edition (2020) of the FBC and of no financial interest, dated 10/19/2021, issued by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0919.01
Expiration Date: September 23, 2025
Approval Date: October 17, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. Evidence submitted under NOA # 22-0606.03 and new

A. DRAWINGS

1. Drawing No. **HSA3001** to **HSA3009**, titled "Cue/Cube, G/GB and CW/CWB-060-300", sheets 1 through 9 of 9, dated 08/16/2024, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. None.

C. CALCULATIONS *"Submitted under NOA # 22-0606.03"*

1. Fan anchor calculations, prepared by Rice Engineering, dated 07/08/2022, 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 letters of code conformance to the 8th edition (2023) of the FBC and of no financial interest, both dated 09/09/2024, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

2. Verification testing contract letter, issued by Quast Consulting & Testing Inc., and dated 07/29/2024.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0919.01
Expiration Date: September 23, 2025
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MODEL	FASTENER G		FASTENER H		FASTENER J		FASTENER K	
	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
CUE/CW-060-065-070-075-080-085-090-095	12 EA	TCS 1/4-20 X 3/4 DACROMET COATED	4	RIVET, 1/4 X 5/16 SEMI TUBULAR 5052 ALUM.	4	SCREW, 1/4-20 X 5/8 18-8/SS	4	PAL NUT, 1/4-20 SPRING STEEL
CUE/CW-099-100/101/HP-120/121-130/131-140/141/HP-160/161/HP	16 EA		4					
CUE/CW-180/HP-200	24 EA		6					
CUBE/CWB-098-099-100/101/HP-120/121-130/131-140/141/HP-160/161/HP/XP	16 EA		4					
CUBE/CWB-180/HP-200/HP-220/HP-240/HP	24 EA		6					
S-CUBE-100/101/HP-120/121-130/131-140/141/HP-160/161/HP	16 EA		4					
S-CUBE-200-240-300	24 EA		6					

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 24-0919.01
Expiration Date 09/23/2025
By
Miami-Dade Product Control

ALL DIMENSIONS ARE IN INCHES

MODEL	A	B	C	D	E	F	WEIGHT (LBS)
CUE/CW-060	17.00	1.75	13.13	15.41	18.38	12.63	29
CUE/CW-065	17.00	1.75	13.13	15.41	18.38	12.63	29
CUE/CW-070	17.00	1.75	13.13	15.41	18.38	12.63	29
CUE/CW-075	17.00	1.75	13.13	15.41	18.38	12.63	29
CUE/CW-080	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE/CW-085	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE/CW-090	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE/CW-095	19.00	1.75	15.19	17.31	21.00	14.38	40
CUE/CW-099	19.00	1.75	19.23	27.00	23.63	14.38	53
CUE/CW-100/101/HP	19.00	1.75	19.23	27.00	23.63	18.63	53
CUE-120/121 & CW-121	19.00	1.75	19.23	27.00	23.63	18.63	64
CUE-130/131 & CW-131	19.00	1.75	19.23	27.00	23.63	18.63	64
CUE-140/141/HP & CW-141/HP	22.00 OR 26.00	1.75	20.35	32.20	27.63	21.00	90
CUE-142HP	24.00	1.75	20.35	32.20	27.63	21.00	90
CUE-160/161/HP & CW-161/HP	22.00 OR 26.00	1.75	20.35	32.20	27.63	21.00	90
CUE-162HP	24.00	1.75	20.35	32.20	27.63	21.00	90
CUE-180/HP & CW-180/HP	30.00	1.75	22.72	31.57	35.50	25.20	142
CUE-200/HP & CW-200	30.00	1.75	22.72	31.57	35.50	25.20	142
CUBE/CWB-098	19.00	1.75	19.50	27.00	23.63	18.63	58
CUBE/CWB-099	19.00	1.75	19.50	27.00	23.63	18.63	58
CUBE/CWB-100/101/HP	19.00	1.75	19.50	27.00	23.63	18.63	58
CUBE-120/121 & CWB-121	19.00	1.75	19.50	27.00	23.63	18.63	66
CUBE-130/131 & CWB-131	19.00	1.75	19.50	27.00	23.63	18.63	66
CUBE-140/141/HP & CWB-141/HP	22.00 OR 26.00	1.75	20.35	32.20	27.63	21.00	84
CUBE-160/161/HP & CWB-161/HP	22.00 OR 26.00	1.75	20.35	32.20	27.63	21.00	87
CUBE-180/HP & CWB-180/HP	30.00	1.75	22.72	33.75	35.50	25.20	126
CUBE-200/HP & CWB-200	30.00	1.75	22.72	33.75	35.50	25.20	142
CUBE/CW-220/HP	34.00	1.75	27.25	40.00	40.88	29.20	174
CUBE-240/HP/XP & CWB-240/HP/XP	34.00	1.75	27.25	40.00	40.88	29.20	175
CUBE-300/HP/XP & CWB-300/HP/XP	40.00	1.75	30.84	44.50	48.31	36.02	313
S-CUBE-100/101/HP	19.00	1.75	19.50	27.00	23.63	18.63	58
S-CUBE-120/121	19.00	1.75	19.50	27.00	23.63	18.63	66
S-CUBE-130/131	19.00	1.75	19.50	27.00	23.63	18.63	66
S-CUBE-140/141/HP	22.00	1.75	20.35	32.20	27.63	21.00	84
S-CUBE-160/161/HP	22.00	1.75	20.35	32.20	27.63	21.00	87
S-CUBE-200	30.00	1.75	22.72	33.75	35.50	25.20	142
S-CUBE-240	34.00	1.75	27.25	40.00	40.88	29.20	175
S-CUBE-300/HP	40.00	1.75	30.84	44.50	48.31	36.02	313

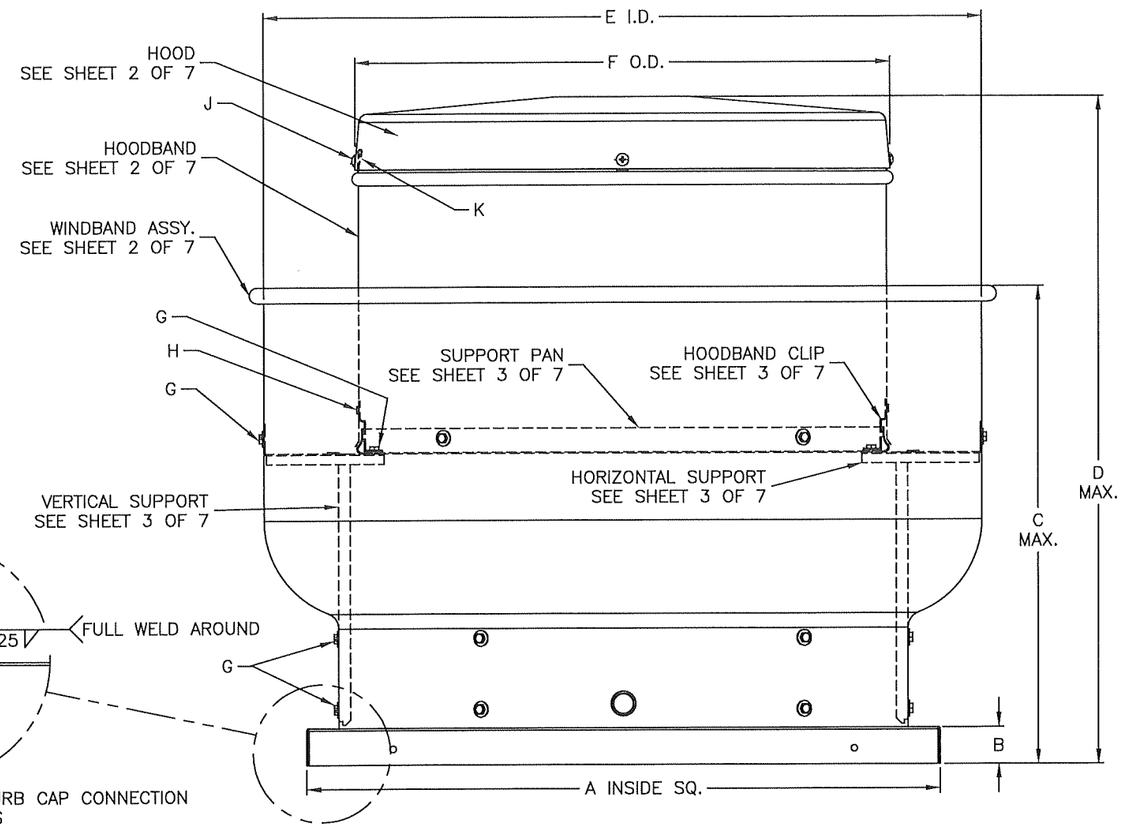
WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEP 09 2024

MODEL NAME EQUIVALENTS			
BRAND	GREENHECK	ACCUREX	VENCO
MODEL NAME	CUE	XCUE	VUCD
	CUBE	XCUBE	VUCB
	CW	XSED	VWCD
	CWB	XSEB	VWCB

DESIGN LIMITS	
MAX DESIGN LOAD:	±150 psf (3.6 Kpa)
MAX OVERALL ENCLOSURE DIA:	48.31 In. (1227 mm)
MAX OVERALL UNIT HEIGHT:	44.50 In. (1130 mm)

REVISION	DCR	BY	DATE	SYM
CREATE DWG.		DFY	06/03/2009	0
ADDED CUE/CUBE-099		SP1	05/19/2011	1
ADDED CW AND CWB UNITS		SP1	03/08/2012	2
REMOVED MAX WIND VELOCITY AND UPDATED NOTE NUMBER 7		SP1	03/15/2012	3
CORRECTED SPELLING ERRORS		SP1	06/14/2012	4
UPDATE THE MAX DESIGN LOAD		SP1	11/07/2012	5
UPDATE FASTENER G QTY		SP1	05/22/2013	6
ADDED CUE SIZES AND MODEL NAME EQUIVALENTS		BJB	06/20/2019	7
UPDATED SHEET NO. IN TITLE BLOCK		DFY	05/11/2022	8



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

NOTES:

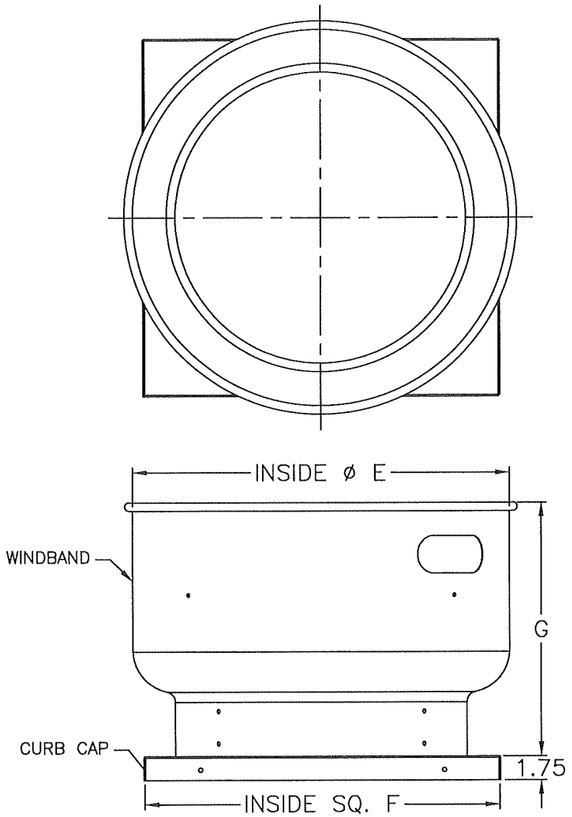
1. MODELS CUE, CUBE, CW, AND CWB HAVE BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH MIAMI DADE TEST PROTOCOL TAS-201 (LARGE MISSILE IMPACT), TAS-203 (CYCLIC WIND LOADING.) AND TAS-202 (STATIC LOADING).
2. THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
3. DESIGN TESTING AND INSTALLATION CONFORMS TO AISC MANUAL OF STEEL CONSTRUCTION AND ALUMINUM DESIGN MANUAL.
4. FAN CURBS MUST BE ANCHORED TO ROOF FRAMING MEMBERS AND NOT TO THE ROOFING SYSTEM.
5. 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.
6. DESIGN, TESTING, AND INSTALLATION CONFORMS TO FLORIDA BUILDING CODE.
7. THIS PRODUCT HAS NOT BEEN TESTED FOR WATER PENETRATION ACCORDING TO FLORIDA BUILDING CODE, TAS 100(A), WIND DRIVEN RAIN TEST. IT CANNOT BE INSTALLED WITHIN THE RIDGE AREA FBC 1523.6.5.2.13

GREENHECK
P.O. BOX 410 SCHOFIELD, WI 54476

TITLE: CUE/CUBE-060-300
SHEET 1 OF 9

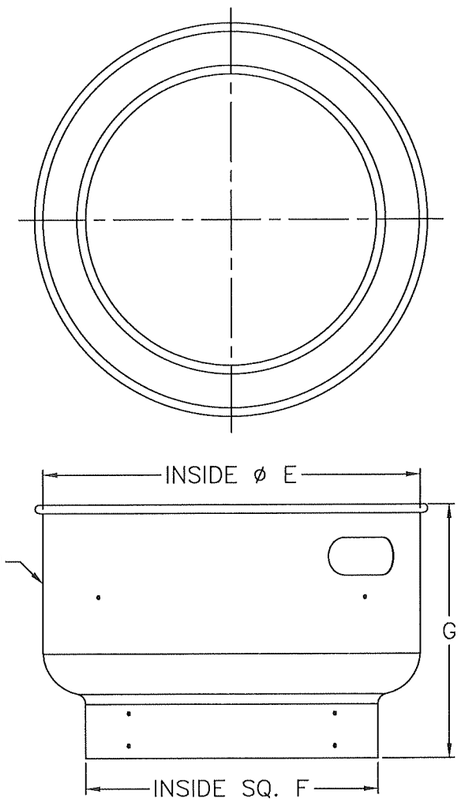
DRAWN BY: BANKER
DATE: 08/16/2024
SUPERSEDES:
SCALE: 1/3.2
CAD DRAWING NO.: HSA3001

REVISION	DCR	BY	DATE	SYM
CREATE DWG.		DFY	06/03/2009	0
ADDED CUE/CUBE-099		SP1	05/19/2011	1
ADDED CW AND CWB UNITS		SP1	03/08/2012	2
ADDED CUE SIZES		BJB	06/19/2019	3
UPDATED SHEE TO. IN TITLE BLOCK		DFY	05/11/2022	4



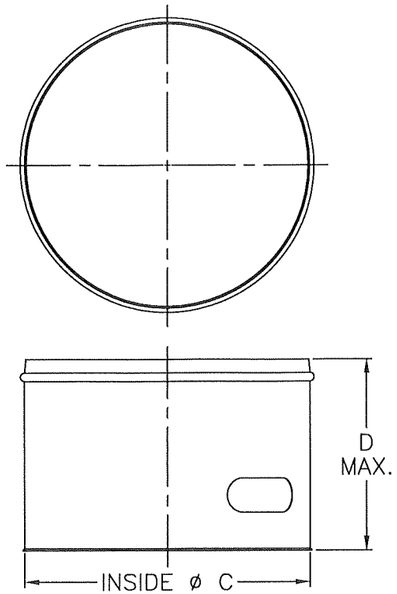
WINDBAND ASSY.
1 REQ'D. PER UNIT

MODEL	E	F	G	WINDBAND	CURB CAP
CUE-060-065-070-075	18.38	17.00	11.38	0.051 ALUM. 1100-H12	0.051 ALUM. 1100-H12
CUE-080-085-090	21.00	19.00	11.50		
CUE-095	21.00	19.00	13.44		0.063 ALUM. 1100-H12/H14
CUE-098-099-100/101/HP-120/121-130/131	23.63	19.00	17.48		
CUE-140/141/HP-160/161/HP	27.63	22.00	18.60		
		26.00			
CUE-142HP-162HP	27.63	24.00	18.60		
CUE-180/HP-200/HP	34.13	30.00	20.97	0.063 ALUM. 1100-H22	
CUBE-098-099-100/101/HP-120/121-130/131	23.63	19.00	17.75	0.051 ALUM. 1100-H12	
CUBE-140/141/HP-160/161/HP/XP	27.63	22.00	18.60		
		26.00			
CUBE-180/HP-200/HP	35.50	30.00	21.00	0.063 ALUM. 1100-H22	
CUBE-220/HP-240/HP/XP	40.88	34.00	25.50		
CUBE-300/HP/XP	48.31	40.00	29.09	0.080 ALUM. 1100-H22	
S-CUBE-100/101/HP-120/121-130/131	23.63	19.00	17.75	0.051 ALUM. 1100-H12	
S-CUBE-140/141/HP-160/161/HP	27.63	22.00	18.60		
S-CUBE-200	35.50	30.00	20.97	0.063 ALUM. 1100-H22	
S-CUBE-240	40.88	34.00	25.50		
S-CUBE-300	48.31	40.00	29.09	0.080 ALUM. 1100-H22	



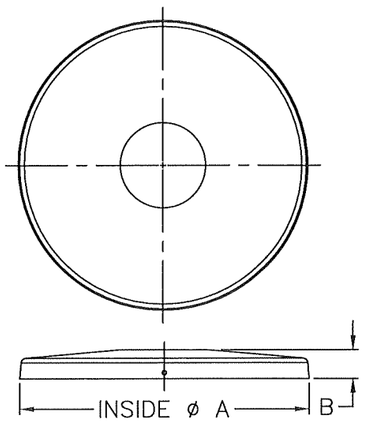
WINDBAND ASSY.
1 REQ'D. PER UNIT

MODEL	E	F	G	WINDBAND
CW-060-065-070-075	18.38	14.75	11.38	0.051 ALUM. 1100-H12
CW-080-085-090	21.00	17.875	11.50	
CW-095	21.00	17.875	13.44	
CW-098-099-101-121-131	23.63	19.75	17.48	
CW-141/HP-161/HP	27.63	22.125	18.60	
CW-180/HP-200	34.13	27.75	20.97	0.063 ALUM. 1100-H22
CWB-098-099-101/HP-121-131	23.63	19.75	17.75	0.051 ALUM. 1100-H12
CWB-141/HP-161/HP/XP	27.63	22.125	18.60	
CWB-180/HP-200/HP	34.13	27.75	21.00	0.063 ALUM. 1100-H22
CWB-220/HP-240/HP/XP	40.88	31.25	25.50	
CWB-300/HP/XP	48.31	38.375	29.09	0.080 ALUM. 1100-H22



HOODBAND
1 REQ'D. PER UNIT

MODEL	C	D	HOOD
CUE/CW-060-065-070-075	12.41	5.47	0.040 ALUM. 1100-H14
CUE/CW-080-085-090-095	14.29	5.47	
CUE/CW-098-099-100/101/HP-120/121-130/131	18.43	12.00	
CUE/CW-140/141/HP-160/161/HP	20.94	14.25	
CUE-142HP-162HP	20.94	14.25	
CUE/CW-180/HP-200/HP	25.13	14.25	
CUBE/CWB-098-099-100/101/HP-120/121-130/131	18.43	12.00	0.040 ALUM. 1100-H14
CUBE/CWB-140/141/HP-160/161/HP/XP	20.94	14.25	
CUBE/CWB-180/HP-200/HP	25.13	18.00	
CUBE/CWB-220/HP-240/HP/XP	28.81	18.00	
CUBE/CWB-300/HP/XP	35.94	23.50	0.051 ALUM. 1100-H14
S-CUBE-100/101/HP-120/121-130/131	18.43	12.00	0.040 ALUM. 1100-H14
S-CUBE-140/141/HP-160/161/HP	20.94	14.25	
S-CUBE-200	25.13	18.00	
S-CUBE-240	28.81	18.00	
S-CUBE-300	35.94	23.50	0.051 ALUM. 1100-H14



HOOD
1 REQ'D. PER UNIT

MODEL	A	B	HOOD
CUE/CW-060-065-070-075	12.55	1.85	0.051 ALUM. 1100-H12
CUE/CW-080-085-090-095	14.38	1.94	
CUE/CW-098-099-100/101/HP-120/121-130/131	18.63	2.66	0.040 ALUM. 1100-H14
CUE/CW-140/141/HP-160/161/HP	21.25	2.13	
CUE-142HP-162HP	21.25	2.13	
CUE/CW-180/HP-200/HP	25.44	3.44	
CUBE/CWB-098-099-100/101/HP-120/121-130/131	18.63	2.66	
CUBE/CWB-140/141/HP-160/161/HP/XP	21.25	2.13	
CUBE/CWB-180/HP-200/HP	25.44	3.44	
CUBE/CWB-220/HP-240/HP/XP	29.13	3.09	0.051 ALUM. 1100-H12
CUBE/CWB-300/HP/XP	36.25	3.81	
S-CUBE-100/101/HP-120/121-130/131	18.63	2.66	0.040 ALUM. 1100-H14
S-CUBE-140/141/HP-160/161/HP	21.25	2.13	
S-CUBE-200	25.44	3.44	
S-CUBE-240	29.13	3.09	0.051 ALUM. 1100-H12
S-CUBE-300	36.25	3.81	

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 24-0919.01
Expiration Date 09/23/2025
By
Miami-Dade Product Control

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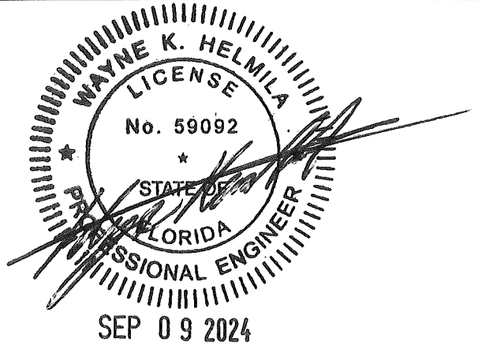
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092



SEP 09 2024

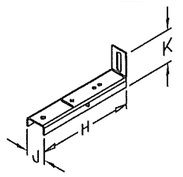
ALL DIMENSIONS ARE IN INCHES

GREENHECK
P.O. BOX 410 SCHOFIELD, WI 54476

DRAWN BY	BANKER
DATE	08/16/2024
SUPERSEDES	
SCALE	1/4.8
CAD DRAWING NO.	HSA3002

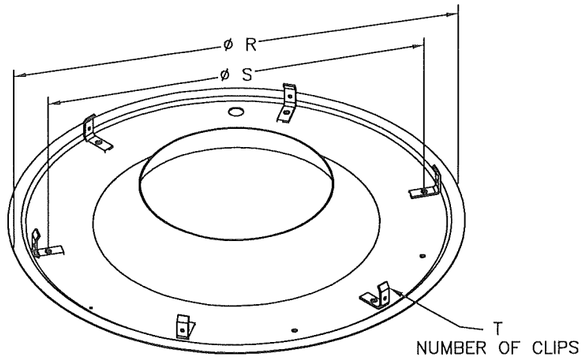
TITLE
CUE/CUBE-060-300
SHEET 2 OF 9

REVISION	DCR	BY	DATE	SYM
ADDED CUE/CUBE-099		SP1	05/19/2011	1
ADDED CW AND CWB UNITS		SP1	03/08/2012	2
ADDED CUE SIZES AND CURB CAP REINFORCMENT PLATE		BJB	06/26/2019	3
UPDATED SHEET NO. IN TITLE BLOCK		DFY	05/11/2022	4



HORIZONTAL SUPPORT

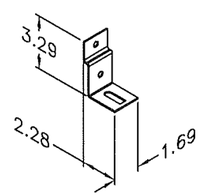
MODEL	H	J	K	QTY.	HORIZONTAL SUPPORT
CUE/CW-060-065-070-075	4.68	1.03	2.0	4	16 GA. GALV. G90
CUE/CW-080-085-090-095	4.68	1.03	2.0	4	16 GA. GALV. G90
CUE/CW-098-099-100/101/HP-120/121-130/131	5.18	1.03	2.0	4	16 GA. GALV. G90
CUE/CW-140/141/HP-160/161/HP	4.68	1.03	2.0	4	16 GA. GALV. G90
CUE-142HP-162HP	4.68	1.03	2.0	4	16 GA. GALV. G90
CUE/CW-180/HP-200/HP	5.72	1.03	2.0	6	16 GA. GALV. G90
CUBE/CWB-098-099-100/101/HP-120/121-130/131	5.18	1.03	2.0	4	16 GA. GALV. G90
CUBE/CWB-141/HP-161/HP/XP	4.68	1.03	2.0	4	16 GA. GALV. G90
CUBE/CWB-180/HP-200/HP	5.72	1.03	2.0	6	16 GA. GALV. G90
CUBE/CWB-220/HP-240/HP/XP	7.25	1.03	2.0	6	16 GA. GALV. G90
CUBE/CWB-300/HP/XP	7.94	1.55	2.5	6	14 GA. GALV. G90
S-CUBE-100/101/HP-120/121-130/131	5.18	1.03	2.0	4	16 GA. GALV. G90
S-CUBE-140/141/HP-160/161/HP	4.68	1.03	2.0	4	16 GA. GALV. G90
S-CUBE-200	5.72	1.03	2.0	6	16 GA. GALV. G90
S-CUBE-240	7.25	1.03	2.0	6	16 GA. GALV. G90
S-CUBE-300	7.94	1.55	2.5	6	14 GA. GALV. G90



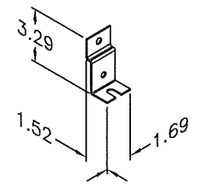
MOUNTING PLATE

1 REQ'D. PER UNIT

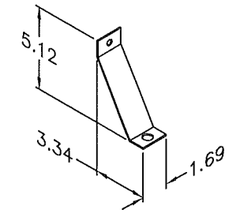
MODEL	R	S	T	SUPPORT PAN
CW-060-065-070-075	14.75	11.75	4	18 GA. GALV. G90
CW-080-085-090-095	17.88	15.00	4	18 GA. GALV. G90
CW/CWB-098-099-101-121-131	19.75	16.88	4	18 GA. GALV. G90
CW/CWB-141/HP-161/HP	22.13	19.38	4	18 GA. GALV. G90
CW/CWB-180/HP-200	27.75	25.00	6	18 GA. GALV. G90
CWB-220/HP-240/HP	31.25	28.38	6	18 GA. GALV. G90
CWB-300/HP	38.38	35.84	6	18 GA. GALV. G90



TYPE R



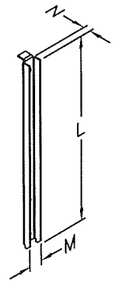
TYPE S



TYPE T

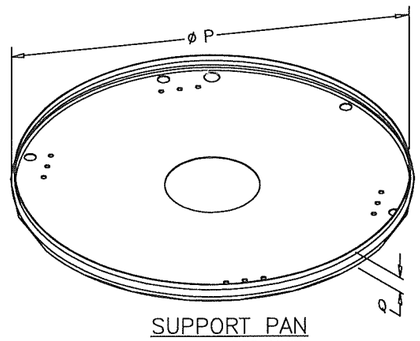
HOODBAND CLIPS

MODEL	TYPE	QTY.	HOODBAND CLIP
CUE/CW-060-065-070-075	R	3	16 GA. GALV. G90
CUE/CW-080-085-090-095	R	3	16 GA. GALV. G90
CUE/CW-098-099-100/101/HP-120/121-130/131	T	3	16 GA. GALV. G90
CUE/CW-140/141/HP-142HP-160/161/HP-162HP	R	4	16 GA. GALV. G90
CUE/CW-180/HP-200/HP	S	6	16 GA. GALV. G90
CUBE/CWB-098-099-100/101/HP-120/121-130/131	T	3	16 GA. GALV. G90
CUBE/CWB-140/141/HP-160/161/HP/XP	R	4	16 GA. GALV. G90
CUBE/CWB-180/HP-200/HP	S	6	16 GA. GALV. G90
CUBE/CWB-220/HP-240/HP/XP	R	6	16 GA. GALV. G90
CUBE/CWB-300/HP/XP	R	6	16 GA. GALV. G90
S-CUBE-100/101/HP-120/121-130/131	R	3	16 GA. GALV. G90
S-CUBE-140/141/HP-160/161/HP	R	4	16 GA. GALV. G90
S-CUBE-200	S	6	16 GA. GALV. G90
S-CUBE-240	R	6	16 GA. GALV. G90
S-CUBE-300	R	6	16 GA. GALV. G90



VERTICAL SUPPORT

MODEL	L	M	N	QTY.	VERTICAL SUPPORT
CUE/CW-060-065-070-075-080-085-090	7.44	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-095	8.88	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-098-099-100/101/HP-120/121-130/131	9.47	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-140/141/HP-142HP-160/161	10.88	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-160/161HP-162HP	7.44	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-180-200	12.78	0.93	0.56	6	16 GA. GALV. G90
CUE/CW-180HP	10.88	0.93	0.56	6	16 GA. GALV. G90
CUE-200/HP	12.78	0.93	0.56	6	16 GA. GALV. G90
CUBE/CWB-098-099-100/101/HP-120/121-130/131	9.47	0.93	0.56	4	16 GA. GALV. G90
CUBE/CWB-140/141/HP-160/161HP	10.88	0.93	0.56	4	16 GA. GALV. G90
CUBE/CWB-160/161XP	8.63	0.93	0.56	4	16 GA. GALV. G90
CUBE/CWB-180/HP-200/HP	12.78	0.93	0.56	6	16 GA. GALV. G90
CUBE/CWB-220/HP-240/HP	17.60	0.93	0.56	6	16 GA. GALV. G90
CUBE/CWB-240XP	12.78	0.93	0.56	6	16 GA. GALV. G90
CUBE/CWB-300/HP	18.09	1.39	0.69	6	14 GA. GALV. G90
CUBE/CWB-300XP	13.13	1.39	0.69	6	14 GA. GALV. G90
S-CUBE-100/101/HP-120/121-130/131	9.47	0.93	0.56	4	16 GA. GALV. G90
S-CUBE-140/141/HP-160/161/HP	10.88	0.93	0.56	4	16 GA. GALV. G90
S-CUBE-200	12.78	0.93	0.56	6	16 GA. GALV. G90
S-CUBE-240	17.60	0.93	0.56	6	16 GA. GALV. G90
S-CUBE-300	18.09	1.39	0.69	6	14 GA. GALV. G90



SUPPORT PAN

1 REQ'D. PER UNIT

MODEL	P	Q	SUPPORT PAN
CUE/CW-060-065-070-075	12.31	1.75	18 GA. GALV. G90
CUE/CW-080-085-090-095	14.19	1.94	18 GA. GALV. G90
CUE/CW-098-099	18.38	3.94	18 GA. GALV. G90
CUE/CW-100/101/HP	18.38	3.19	18 GA. GALV. G90
CUE/CW-120/121	18.38	4.94	18 GA. GALV. G90
CUE/CW-130/131	18.38	4.44	18 GA. GALV. G90
CUE/CW-140/141/HP-160/161/HP	20.88	2.41	18 GA. GALV. G90
CUE-142HP-162HP	20.88	2.41	18 GA. GALV. G90
CUE/CW-180/HP-200/HP	25.06	3.48	18 GA. GALV. G90
CUBE/CWB-098-099-100/101/HP-120/121-130/131	18.38	2.75	18 GA. GALV. G90
CUBE/CWB-140/141/HP-160/161/HP/XP	20.88	1.5	18 GA. GALV. G90
CUBE/CWB-180/HP-200/HP	25.06	1.19	18 GA. GALV. G90
CUBE/CWB-220/HP-240/HP/XP	28.75	1.19	18 GA. GALV. G90
CUBE/CWB-300/HP/XP	35.88	1.19	18 GA. GALV. G90
S-CUBE-100/101/HP-120/121-130/131	18.38	2.75	18 GA. GALV. G90
S-CUBE-140/141/HP-160/161/HP	20.88	1.50	18 GA. GALV. G90
S-CUBE-200	25.06	1.19	18 GA. GALV. G90
S-CUBE-240	28.75	1.19	18 GA. GALV. G90
S-CUBE-300	35.88	1.19	18 GA. GALV. G90

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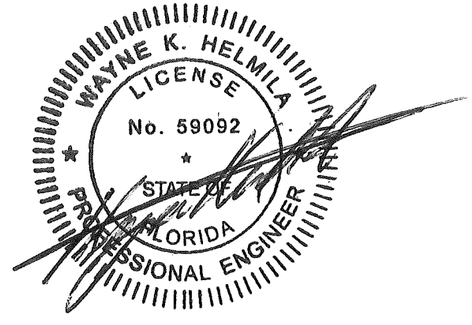
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092



SEP 09 2024

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 24-0919.01
Expiration Date 09/23/2025
By
Miami-Dade Product Control

ALL DIMENSIONS ARE IN INCHES

GREENHECK
P.O. BOX 410 SCHOFIELD, WI 54476

DRAWN BY	BANKER
DATE	08/16/2024
SUPERSEDES	
SCALE	1/4
CAD DRAWING NO.	HSA3003

TITLE
CUE/CUBE-060-300
SHEET 3 OF 9

MODEL	FASTENER J		FASTENER K		FASTENER L		FASTENER M		FASTENER N		FASTENER P		FASTENER Q	
	QTY.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION
G-060-065-070-075-080-085-090-095-097-098-099	4	RIVET, 7/32 X 3/8 AL FH SLD	8	RIVET, 3/16 X 3/8 AL FH SLD	–	TCS 1/4-20 X 3/4 DACROMET COATED	4	TCS 1/4-20 X 3/4 DACROMET COATED	4	SCREW, 1/4-20 X 5/8 PTH 18-8 SS	–	SMS, #10 X 1/2 PTH 18-8 SS	4	SCREW, #12X1 SELF DRILLING
G-100/101/103/HP-120/121/123											4			
G-131-133-141/HP-143/HP	6		12		9		6		6		–		12	
G-160-163/HP-170														
G-180-183/HP-203/HP											4			
GB-071/097-081/098-091/099-100/101/HP	4	RIVET, 7/32 X 3/8 AL FH SLD	8	RIVET, 3/16 X 3/8 AL FH SLD	6		4		4				8	
GB-120/121-130/131														
GB-140/141/HP-160/161/HP	6		12		9		6		6				6	
GB-180/HP-200/HP														
GB-220/HP-240/HP			12	TCS 1/4-20 X 3/4 DACROMET COATED									12	
GB-260-300/HP		TCS 1/4-20 X 3/4 DACROMET COATED												

MODEL NAME EQUIVALENTS			
BRAND	GREENHECK	ACCUREX	VENCO
MODEL NAME	G	XRED	VECD
	GB	XREB	VECB

REVISION	DCR	BY	DATE	SYM
CREATE DWG.		DFY	06/03/2009	0
ADDED G-097-098-099-103-123-133-143 163-183-203		SP1	03/25/2011	1
REMOVED MAX WIND VELOCITY AND UPDATED NOTE NUMBER 7		SP1	03/15/2012	2
CORRECTED SPELLING ERRORS		SP1	06/14/2012	3
UPDATE THE MAX DESIGN LOAD		SP1	11/07/2012	4
ADD FASTENER "Q" COLUMN		SP1	05/06/2013	5
ADDED G SIZES AND MODEL NAME EQUIVALENTS		BJB	06/26/2019	6
UPDATED SHEET NO. IN TITLE BLOCK		DFY	05/11/2022	7

DESIGN LIMITS	
MAX DESIGN LOAD:	±150 psf (3.6 Kpa)
MAX OVERALL ENCLOSURE DIA:	48.31 in. (1227 mm)
MAX OVERALL UNIT HEIGHT:	44.50 in. (1130 mm)

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 24-0919.01
Expiration Date 09/23/2025
By
Miami-Dade Product Control

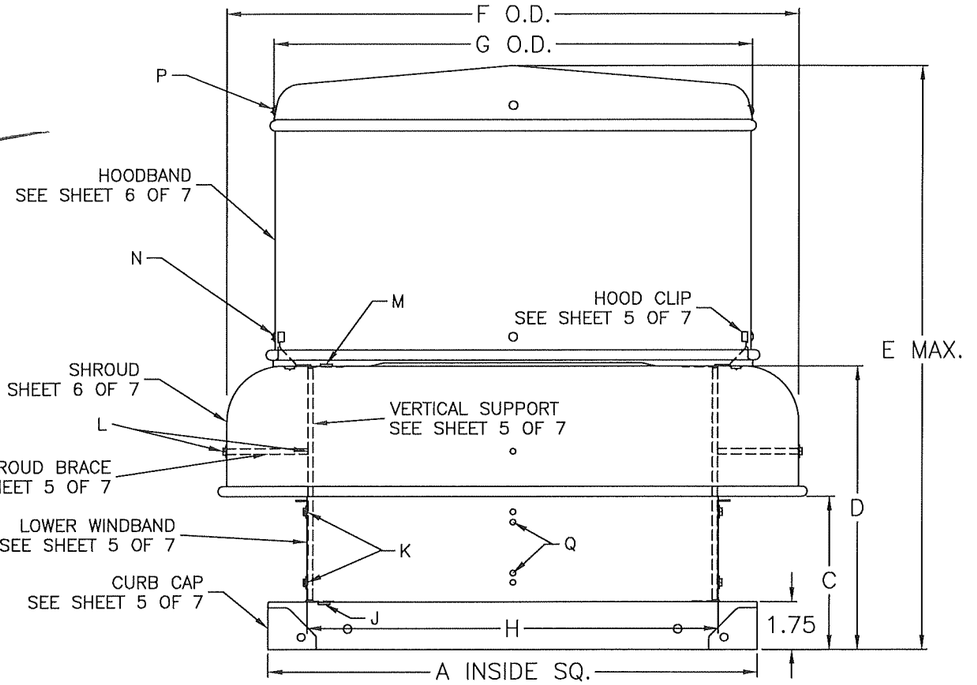
MODEL	A	C	D	E	F	G	H	WEIGHT (LBS)	IMPACT RATED
G-060	17.00	4.69	8.44	13.88	18.50	11.63 OR 14.50	12.38	18	NO
G-065	17.00	4.69	8.44	13.88	18.50		12.38	18	
G-070	17.00	4.69	8.44	13.88	18.50		12.38	18	
G-075	17.00	4.69	8.44	13.88	18.50		12.38	18	
G-080	17.00	5.63	10.38	16.31	21.00	14.50	14.25	26	
G-085	17.00	5.63	10.38	16.31	21.00	14.50	14.25	26	
G-090	17.00	5.63	10.38	16.31	21.00	14.50	14.25	26	
G-095	17.00	5.63	10.38	16.31	21.00	14.50	14.25	26	
G-100/103	19.00	6.52	10.38	20.13	23.72	19.68	18.19	43	
G-120/121	19.00	7.25	10.38	20.13	23.72	19.68	18.19	43	
G-130/131	22.00	6.71	10.38	20.13	27.63	22.19	21.08	59	
G-140/141	22.00	6.71	12.38	28.07	27.63	22.19	21.08	59	YES
G-160	30.00	6.63	13.63	23.68	34.25	26.23	27.00	59	
G-180	30.00	7.63	14.63	31.90	34.25	26.23	27.23	81	
GB-071/097 : G-097	19.00	6.01	11.56	29.66	23.63	19.75	18.19	58	NO
GB-081/098 : G-098	19.00	6.01	11.56	29.66	23.63	19.75	18.19	58	
GB-091/099 : G-099	19.00	6.01	11.56	29.66	23.63	19.75	18.19	58	
GB-100/101/HP : G-100/103/HP	19.00	6.01	11.56	29.66	23.63	19.75	18.19	63	
GB-120/121 : G-120/123	19.00	6.01	11.56	29.66	23.63	19.75	18.19	66	
GB-130/131 : G-130/133	19.00	6.01	11.63	29.66	27.63	19.75	18.19	67	
GB-140/141/HP : G-140/143/HP	22.00	6.00	11.56	27.31	27.63	22.19	21.00	83	YES
GB-160/161/HP : G-160/163	22.00	6.00	11.56	27.31	27.63	22.19	21.00	89	
GB-180/HP : G-180/183	30.00	7.75	14.75	36.94	34.37	26.40	27.30	125	
GB-200/HP : G-200/203/HP	30.00	7.75	14.75	36.94	34.37	26.40	27.30	138	
GB-220/HP	34.00	9.62	18.06	40.56	40.75	30.00	30.50	158	
GB-240/HP	34.00	9.62	18.06	40.56	40.75	30.00	30.50	158	
GB-260	40.00	11.64	19.77	45.16	46.20	35.94	36.00	305	
GB-300/HP	40.00	11.64	19.77	45.16	46.20	35.94	36.00	320	

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEP 0 9 2024

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



NOTES:

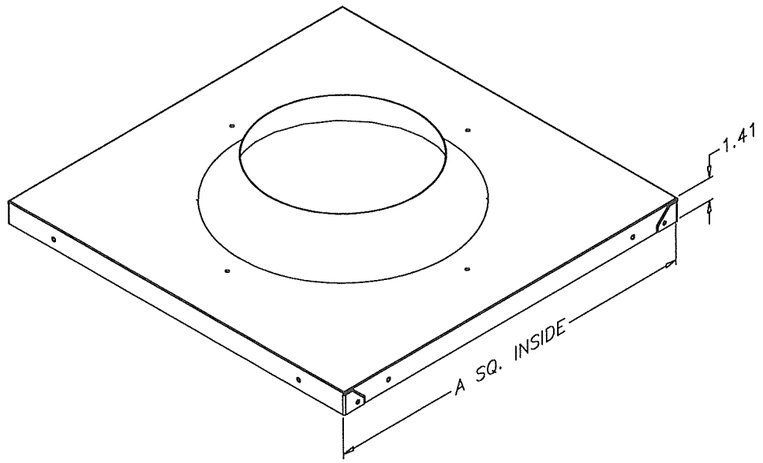
1. MODELS G AND GB HAVE BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH MIAMI DADE TEST PROTOCOL TAS-202 (STATIC LOADING), TAS 201 (MISSLE IMPACT) AND TAS-203 (CYCLIC WIND) FANS ARE IMPACT RESISTANT (LIMITED SIZES, SEE CHART ABOVE).
2. THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
3. DESIGN TESTING AND INSTALLATION CONFORMS TO AISC MANUAL OF STEEL CONSTRUCTION AND ALUMINUM DESIGN MANUAL.
4. FAN CURBS MUST BE ANCHORED TO ROOF FRAMING MEMBERS AND NOT TO THE ROOFING SYSTEM.
5. 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.
6. DESIGN, TESTING, AND INSTALLATION CONFORMS TO FLORIDA BUILDING CODE.
7. THIS PRODUCT HAS NOT BEEN TESTED FOR WATER PENETRATION ACCORDING TO FLORIDA BUILDING CODE, TAS 100(A), WIND DRIVEN RAIN TEST. IT CANNOT BE INSTALLED WITHIN THE RIDGE AREA FBC 1523.6.5.2.13

GREENHECK
P.O. BOX 410 SCHOFIELD, WI 54476

DRAWN BY	BANKER
DATE	08/16/2024
SUPERSEDES	
SCALE	1/3
CAD DRAWING NO.	HSA3004

TITLE
G/GB-060-300
SHEET 4 OF 9

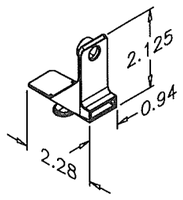
REVISION	DCN	BY	DATE	SYM
CREATE DWG.		DFY	06/03/2009	0
ADDED G-097-098-099-103-123-133-143 163-183-203		SP1	03/25/2011	1
ADDED G SIZES		BJB	06/26/2019	2
UPDATED SHEET NO. IN TITLE BLOCK		DFY	05/11/2022	3



CURB CAP

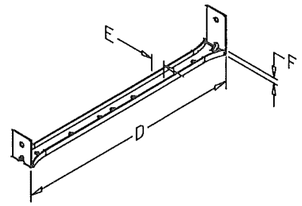
1 REQ'D. PER UNIT

MODEL	A	CURB CAP
G-060-065-070-075-080-085-090-095	17.00	0.051 ALUM. 1100-H14
G-100/101/103/HP-120/121/123	19.00	
G-130/131/133-140/141/143/HP	22.00	
G-160/163/HP-180/183/HP-200/203/HP	30.00	
GB-071/097-081/098-091/099 ı G-097-098-099	19.00	
GB-100/101/HP-120/121-130/131	19.00	0.063 ALUM. 1100-H12
GB-140/141/HP-160/161/HP	22.00	
GB-180/HP-200/HP	30.00	
GB-220/HP-240/HP	34.00	
GB-260-300/HP	40.00	



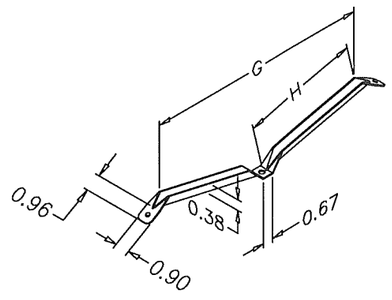
HOOD CLIP

MODEL	QTY.	HOOD CLIP
G-060-065-070-075	4	NYLON N1000 STL
G-080-085-090-095	4	NYLON N1000 STL
G-100/101-120/121	4	NYLON N1000 STL
G-130/131-140/141/143/HP	4	NYLON N1000 STL
G-160	6	NYLON N1000 STL
GB-071/097-081/098-091/099-100/101/HP-120/121-130/131 G-097-098-099-103/HP-123-133	4	NYLON N1000 STL
GB-140/141/HP-160/161/HP ı G-140/143/HP-163	4	NYLON N1000 STL
GB-180/HP-200/HP ı G-180/183/HP-200/203/HP	6	NYLON N1000 STL
GB-220/HP-240/HP	6	NYLON N1000 STL
GB-260-300/HP	6	NYLON N1000 STL



VERTICAL SUPPORT

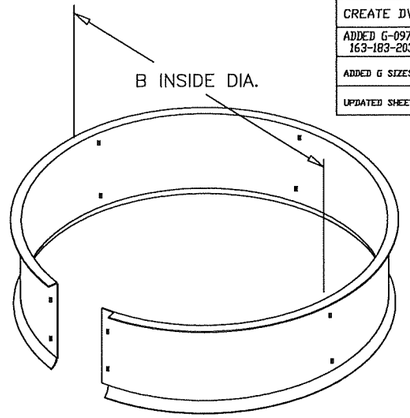
MODEL	D	E	F	QTY.	VERTICAL SUPPORT
G-060-065-070-075	6.69	0.75	0.30	4	18 GA. GALV. G90
G-080-085-090-095	8.63	0.75	0.30	4	18 GA. GALV. G90
G-100/101/HP-120/121-130/131	10.63	0.87	0.43	4	18 GA. GALV. G90
G-140/141	10.63	0.87	0.43	6	18 GA. GALV. G90
G-180	12.88	0.87	0.43	6	18 GA. GALV. G90
GB-071/097-081/098-091/099-100/101/HP-120/121-130/131 G-097-098-099	9.81	0.87	0.43	4	14 GA. GALV. G90
GB-140HP/141HP ı G-140HP/143HP	9.81	0.87	0.43	6	14 GA. GALV. G90
GB-160/161/HP ı G-160/163/HP	11.75	0.87	0.43	6	14 GA. GALV. G90
GB-180/HP-200/HP G-200/203/HP	12.81	0.87	0.43	6	14 GA. GALV. G90
GB-220/HP-240/HP	16.31	0.87	0.43	6	14 GA. GALV. G90
GB-260-300/HP	18.19	1.37	0.79	6	12 GA. GALV. G90



SHROUD BRACE

MODEL	G	H	QTY.	SHROUD BRACE
G-060-065-070-075-080-085-090-095-097-098-099-100/101/HP-120/121/123-130/133-140/143/HP-160/163/HP	-	-	0	-
G-130/131-140/141	13.12	6.43	3	18 GA. GALV. G90
G-160-180	16.44	8.07	3	18 GA. GALV. G90
GB-071/097	-	-	0	-
GB-081/098-091/098-101/HP-120/121	11.12	5.39	2	18 GA. GALV. G90
GB-130/131	13.12	6.89	2	18 GA. GALV. G90
GB-140/141/HP ı G-160/161/HP	13.12	6.43	3	18 GA. GALV. G90
GB-180/HP-200/HP ı G-180/183/HP-200/203/HP	16.43	8.07	3	18 GA. GALV. G90
GB-220/HP-240/HP	9.79	6.39	3	18 GA. GALV. G90
GB-260-300/HP	11.18	6.83	3	18 GA. GALV. G90

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 24-0919.01
Expiration Date 09/23/2025
By
Miami-Dade Product Control



LOWER WINDBAND

ALUM. – 2 REQ'D. PER UNIT
GALV. – 1 REQ'D. PER UNIT

MODEL	B	C	LOWER WINDBAND
G-060-065-070-075	12.38	3.31	
G-080-085-090-095	14.25	4.00	
G-100/101-120/121	18.19	5.06	
G-130/131-140/141	21.08	5.06	
G-160	27.00	5.06	
GB-071/097-081/098-091/099-100/101/HP-120/121-130/131 G-097-098-099-100HP/103HP-120/123-130/133	18.34	4.00	0.040 ALUM. 3105-H14 OR 18 GA. GALV. G90 OR EQUIVALENT
GB-140/141/HP ı G-140HP/143HP	21.41	4.00	
GB-160/161/HP ı G-160/163/HP	21.41	5.88	
GB-180/HP-200/HP G-180/183/HP-200/203/HP	27.30	5.88	
GB-220/HP-240/HP	30.50	7.88	
GB-260-300/HP	36.00	9.38	

WAYNE K. HELMILA
LICENSE
No. 59092
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SEP 09 2024

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

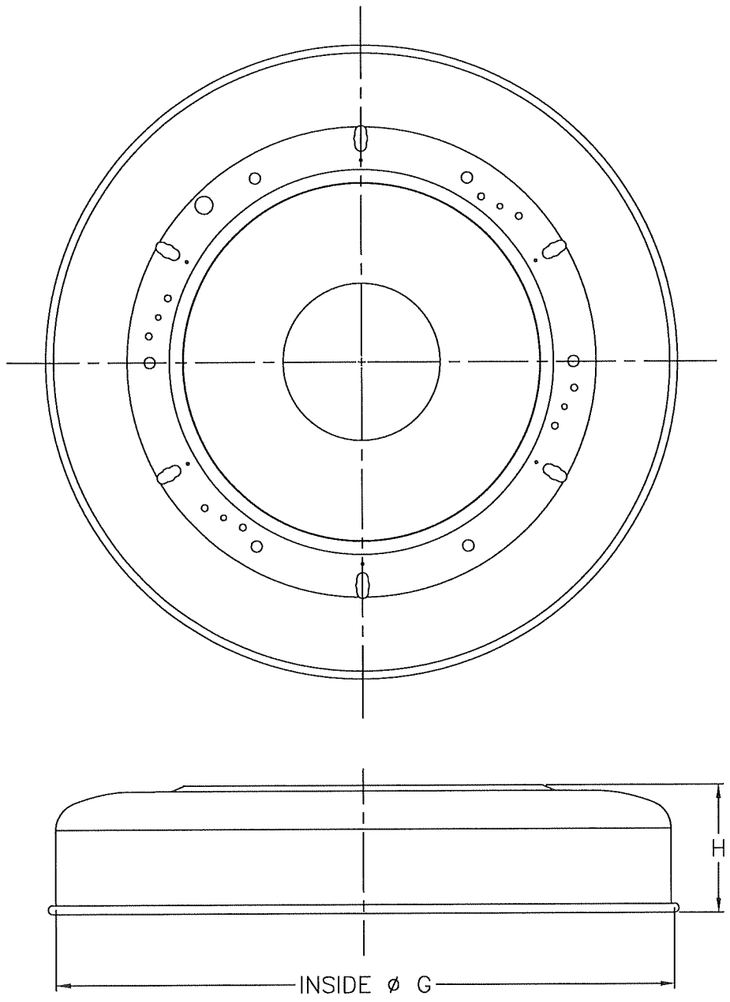
ALL DIMENSIONS ARE IN INCHES

GREENHECK
P.O. BOX 410 SCHOFIELD, WI 54476

DRAWN BY	BANKER
DATE	08/16/2024
SUPERSEDES	
SCALE	1/4
CAD DRAWING NO.	HSA3005

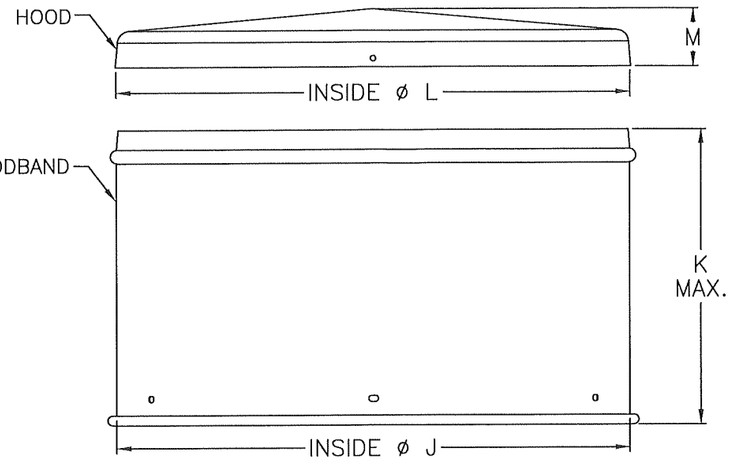
TITLE
G/GB-060-300
SHEET 5 OF 9

REVISION	ECR	BY	DATE	SYM
CREATE DWG.		DFY	06/03/2009	0
ADDED G-097-098-099-103-123-133-143 163-183-203		SP1	05/25/2011	1
ADDED G SIZES		BJB	06/26/2019	2
UPDATED SHEET NO. IN TITLE BLOCK		DFY	05/11/2022	3

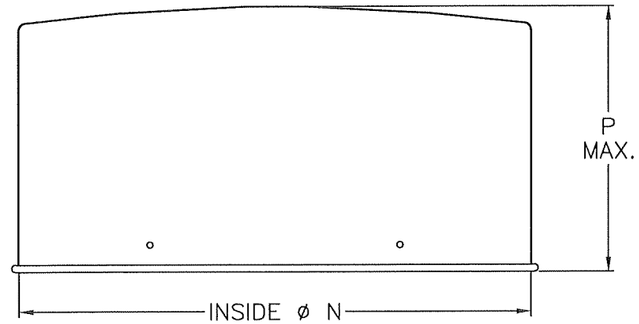


SHROUD
1 REQ'D. PER UNIT

MODEL	G	H	SHROUD
G-060-065-070-075	18.50	3.75	0.051 ALUM. 1100-H14
G-080-085-090-095	21.00	4.75	
G-100/101-120/121	23.63	5.50	
G-130/131-140/141	27.63	5.94	
G-160-180	34.25	7.25	0.063 ALUM. 1100-H14
GB-071/097-081/098-091/099-100/101/HP-120/121 G-097-098-099-100/103/HP-120/123	23.63	5.56	0.051 ALUM. 1100-H14
GB-130/131 - G-130/133	27.63	6.06	
GB-140/141/HP-160/161/HP G-140/143/HP-160/163/HP	27.63	5.88	
GB-180/HP-200/HP - G-180/183/HP-200/203/HP	34.25	7.25	0.063 ALUM. 1100-H14
GB-220/HP-240/HP	40.75	8.75	
GB-260-300/HP	46.00	8.75	



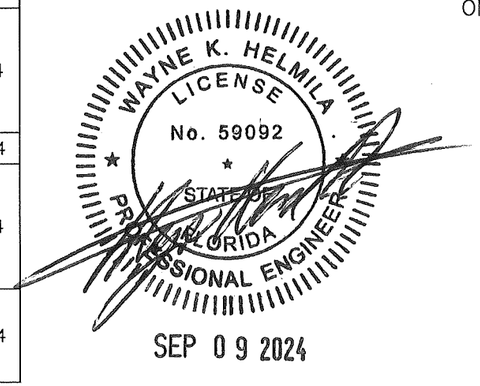
HOODBAND/HOOD
1 EA. REQ'D. PER UNIT



COVER
1 REQ'D. PER UNIT

MODEL	J	K	L	M	HOODBAND	HOOD	N	P	COVER
G-060-065-070-075	-	-	-	-	-	-	11.63 OR 14.50	5.13	0.040 ALUM. 1100-H14
G-080-085-090-095	-	-	-	-	-	-	14.50	5.63	
G-097-098-099-100/101/103-120/121/123-130/133	19.61	13.06	19.75	2.09	0.040 ALUM. 1100-H14	0.040 ALUM. 1100-H14	19.61	11.25	0.040 ALUM. 3003-H0
G-130/131-140/141/143-160/163	22.15	13.44	22.25	2.75			22.18	8.75	0.040 ALUM. 3003-H0
G-160	-	-	-	-	-	-	26.30	13.63	0.040 ALUM. 3003-H0
G-180/183-200/203/HP	26.36	14.94	26.44	2.94	0.040 ALUM. 1100-H14	0.040 ALUM. 1100-H14	26.36	13.63	0.040 ALUM. 3003-H0
GB-071/097-081/098-091/099-100/101/HP-120/121-130/131	19.65	16.81	19.75	2.09	0.040 ALUM. 1100-H14	0.040 ALUM. 1100-H14	19.61	11.25	0.040 ALUM. 3003-H0
GB-140/141/HP-160/161/HP	22.15	13.48	22.25	2.75			22.15	11.75	0.040 ALUM. 3003-H0
GB-180/HP-200/HP	26.34	20.00	26.44	2.94			26.34	13.63	0.040 ALUM. 3003-H0
GB-220/HP-240/HP	29.88	19.75	30.14	3.50		0.063 ALUM. 1100-H14	29.88	12.50	0.040 ALUM. 3003-H0
GB-260-300/HP	35.94	23.25	36.25	3.81	0.050 ALUM. 1100-H14	0.050 ALUM. 1100-H14	-	-	-

NOTE: SIZES SHOWN WITH BOTH HOODBAND/HOOD AND COVER WILL HAVE ONE OR THE OTHER DEPENDING ON SIZE OF MOTOR ORDERED



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

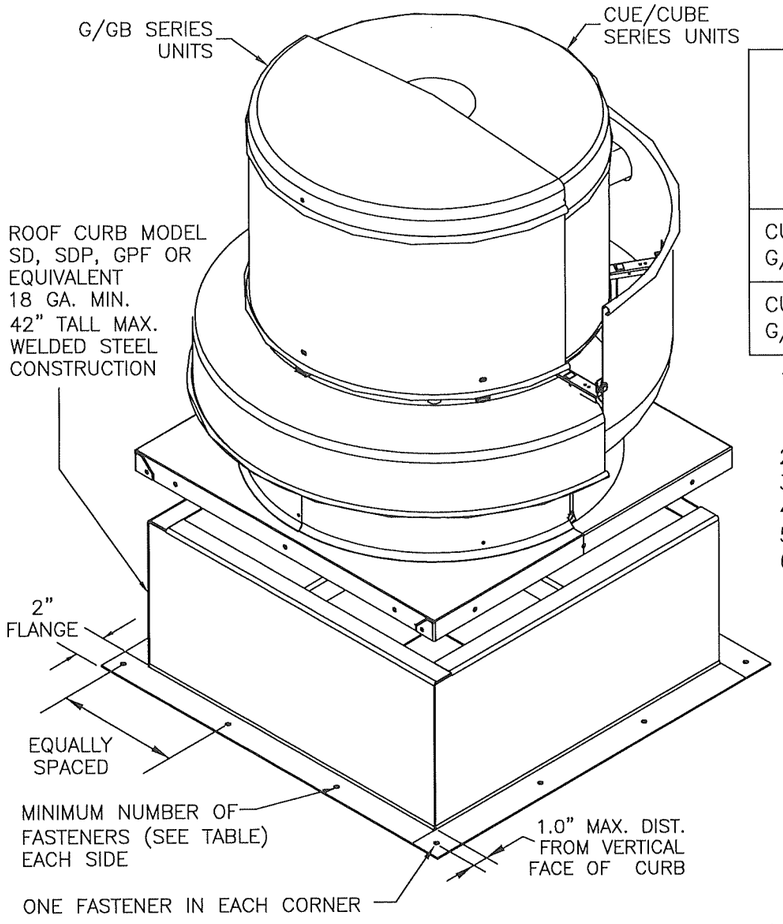
PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 24-0919.01
Expiration Date 09/23/2025
By
Miami-Dade Product Control

ALL DIMENSIONS ARE IN INCHES

GREENHECK
P.O. BOX 410 SCHOFIELD, WI 54476

DRAWN BY	BANKER
DATE	08/16/2024
SUPERSEDES	
SCALE	1/4
CAD DRAWING NO.	HSA3006

TITLE
G/GB-060-300
SHEET 6 OF 9



CURB TO DECK MOUNTING:
MINIMUM NUMBER OF FASTENERS TO ATTACH CURB TO STRUCTURE

UNIT SIZE	OPTION #1 TIMBER- NUMBER OF LAG SCREWS		OPTION#2 TIMBER- NUMBER OF THRU BOLTS		OPTION #3 STEEL DECK- NUMBER OF SELF-DRILLING SCREWS		OPTION #4 STEEL DECK- NUMBER OF THRU BOLTS		OPTION #5 CONCRETE- NUMBER OF ANCHORS		OPTION #6 CONCRETE- NUMBER OF THRU BOLTS	
	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]
CUE/CUBE ≤ 161 G/GB ≤ 141	2	12	2	12	4	20	2	12	2	12	2	12
CUE/CUBE > 161 G/GB > 141	3	16	3	16	7	32	3	16	3	16	3	16

1) UNLESS NOTED, ANCHORS TO BE 300 SERIES S.S. COND. CW (Fy=65ksi MIN.) OR ZINC PLATED GRADE 2 STEEL (Fy=57ksi MIN). ZINC PLATED ANCHORS SHALL BE SEALED WITH LIQUID PROSOCO FLASHING (OR SEALED WITH AN EQUAL PRODUCT) UNLESS FLASHING CAN BE PROVIDED.
2) ALL ANCHORS TO BE INSTALLED PER THE MANUFACTURER RECOMMENDATIONS.
3) ALL ANCHOR SUBSTRATES BY OTHERS.
4) CORNER FASTENERS ARE EXCLUDED FROM 'PER SIDE' COLUMN.
5) THE (4) CORNER FASTENERS ARE INCLUDED IN THE COUNT OF THE 'TOTAL' COLUMN.
6) 150PSF UPLIFT AND 150PSF LATERAL WINDLOADS WERE APPLIED INDEPENDENTLY.

REVISION	DCR	BY	DATE	SYM
CREATE DWG.		JFY	06/04 2009	0
ADDED CUE/CUBE-099 AND G-097-098-099 103-123-133-143-163-183-203		SP1	05/25 2011	1
UPDATE ROOF CURB DESCRIPTION UPDATE CURB TO DECK MOUNTING QTY'S		SP1	11/07 2012	2
ADD FASTENER TOTALS		SP1	01/16 2013	3
CHANGED FASTENER CALLOUTS		TJB	01/17 2019	4
ADDED G SIZES AND CUE SIZES		BJB	06/26 2019	5
UPDATED ANCHORING		JFY	09/11 2022	6

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEP 09 2024

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www.rice-inc.com

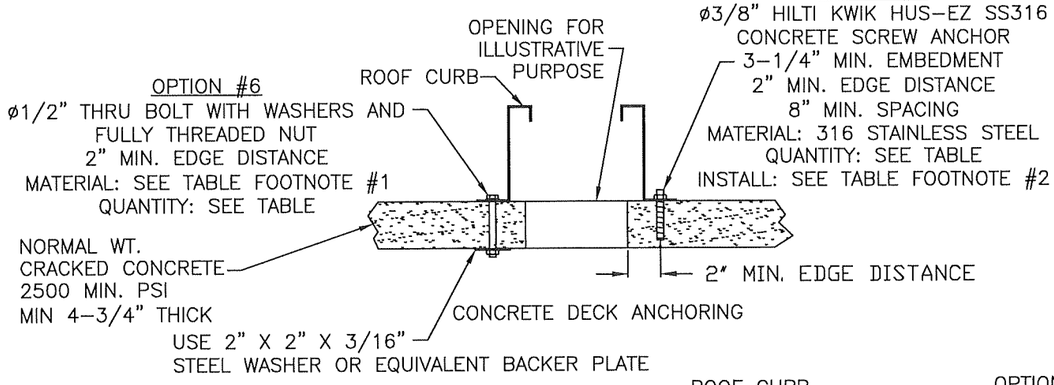
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

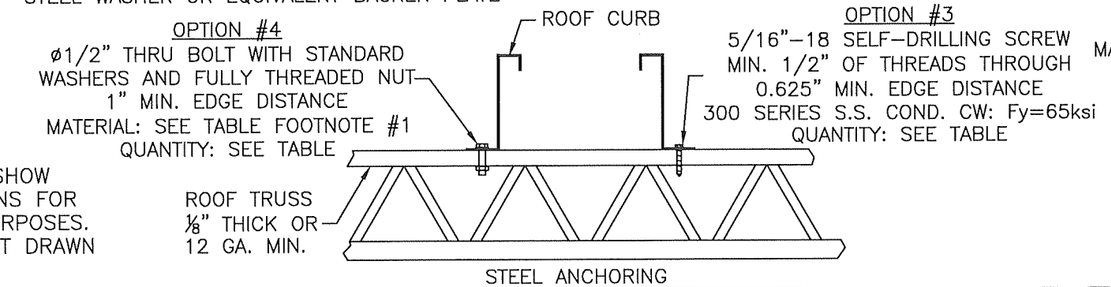
FAN TO CURB MOUNTING

UNIT SIZE	UNIT SIZE PER SIDE	UNIT SIZE TOTAL
CUE–060–065–070–075–080–085–090–095–99/100/101–120/121–130/131–141/141/HP–142HP–160/161/HP–162HP CUBE–098–099–100/101/HP–120/121–130/131–140/141/HP–160/161/HP/XP S–CUBE–140/141/HP–160/161/HP G–060–065–070–075–080–085–090–095–097–098–099–100/101/103–120/121/123–130/131/133–140/141/143–160/163 GB–071/097–081/098–091/099–100/101/HP–120/121–130/131140/141/HP–160/161/HP	3	12
CUE–180/HP–200/HP CUBE–180/HP–200/HP–220/HP–240/HP/XP S–CUBE–200–240 G–160–180/183–203/HP GB–180/HP–200/HP–220/HP–240/HP	5	20
CUBE–300/HP/XP S–CUBE–300 GB–260–300/HP	9	36

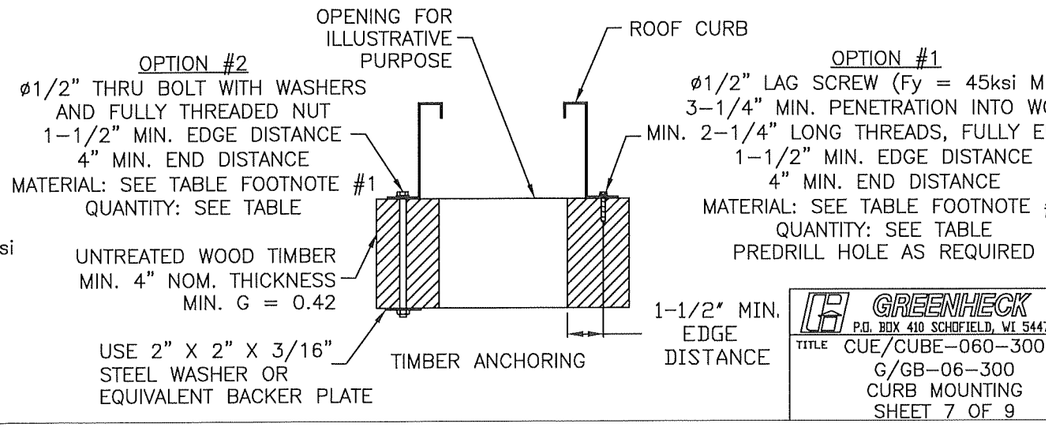
PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 24–0919.01
Expiration Date 09/23/2025
By
Miami–Dade Product Control

FASTENERS ON EACH SIDE OF THE FAN ARE TO BE INSTALLED WITH ONE FASTENER 4 INCHES FROM EACH EDGE AND ONE FASTENER CENTERED. THE FASTENERS ARE TO BE EQUALLY SPACED. 5/16 INCH SELF–DRILLING SCREWS.





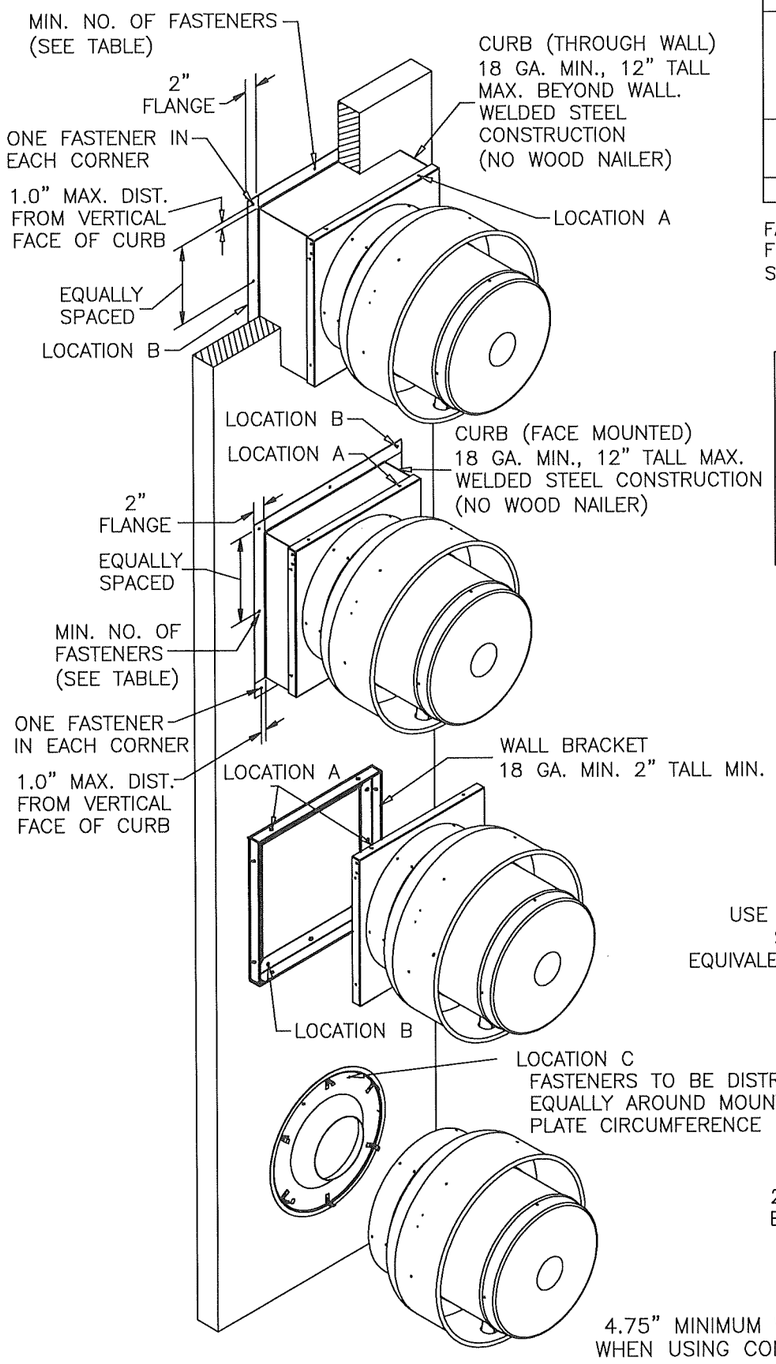
SECTION CUTS SHOW MULTIPLE OPTIONS FOR ILLUSTRATIVE PURPOSES. DETAILS ARE NOT DRAWN TO SCALE



GREENHECK
P.O. BOX 410 SCHOFIELD, WI 54476

DRAWN BY	BANKER
DATE	08/16/2024
SUPERSEDES	
SCALE	1/5
CAD DRAWING NO.	HSA3007

TITLE: CUE/CUBE–060–300 G/GB–06–300 CURB MOUNTING SHEET 7 OF 9



SECTION CUTS SHOW MULTIPLE OPTIONS FOR ILLUSTRATIVE PURPOSES.
DETAILS ARE NOT DRAWN TO SCALE

FAN TO CURB OR WALL BRACKET MOUNTING – LOCATION A

UNIT SIZE	FASTENERS PER SIDE	FASTENERS TOTAL
CUE–060–065–070–075–080–085–090–095–099–100/101–120/121–130/131–140/141/HP–142HP–160/161/HP–162HP CUBE–098–099–100/101/HP–120/121–130/131–140/141/HP–160/161/HP/XP	3	12
CUE–180/HP–200/HP CUBE–180/HP–200/HP–220/HP–240/HP/XP	5	20
CUBE–300/HP/XP	9	36

FASTENERS ON EACH SIDE OF THE FAN ARE TO BE INSTALLED WITH ONE FASTENER 4 INCHES FROM EACH EDGE AND ONE FASTENER CENTERED. THE FASTENERS ARE TO BE EQUALLY SPACED 5/16 INCH SELF–DRILLING SCREWS. WALL BRACKETS SHALL USE 1/4–20 S.S. BOLTS.

SQUARE CURB (OR WALL BRACKET) TO WALL MOUNTING – LOCATION B
MINIMUM NUMBER OF FASTENERS TO ATTACH CURB TO STRUCTURE

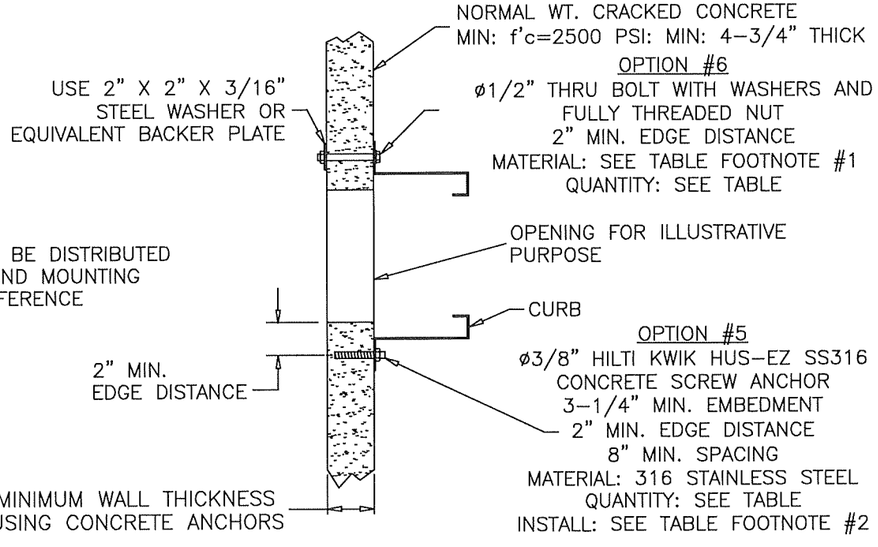
UNIT SIZE	OPTION #5 CONCRETE– NO. OF ANCHORS		OPTION #6 CONCRETE– NO. OF THRU BOLTS		OPTION #7 CMU– NO. OF ANCHORS		OPTION #8 CMU– NO. OF THRU BOLTS	
	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]
CUE/CUBE ≤ 161	1	8	0	4	5	24	0	4
CUE/CUBE > 161	2	12	1	8	10	44	1	8

1) UNLESS NOTED, ANCHORS TO BE 300 SERIES S.S. COND. CW (Fy=65ksi MIN) OR ZINC PLATED GRADE 2 STEEL (Fy=57ksi MIN.). ZINC PLATED ANCHORS SHALL BE SEALED WITH LIQUID PROSOCO FLASHING (OR SEALED WITH AN EQUAL PRODUCT) UNLESS FLASHING CAN BE PROVIDED.
2) ALL ANCHORS TO BE INSTALLED PER THE MANUFACTURER RECOMMENDATIONS.
3) ALL ANCHOR SUBSTRATES BY OTHERS.
4) CORNER FASTENERS ARE EXCLUDED FROM 'PER SIDE' COLUMN.
5) THE (4) CORNER FASTENERS ARE INCLUDED IN THE COUNT OF THE 'TOTAL' COLUMN.
6) 150PSF UPLIFT AND 150PSF LATERAL WINDLOADS WERE APPLIED INDEPENDENTLY.

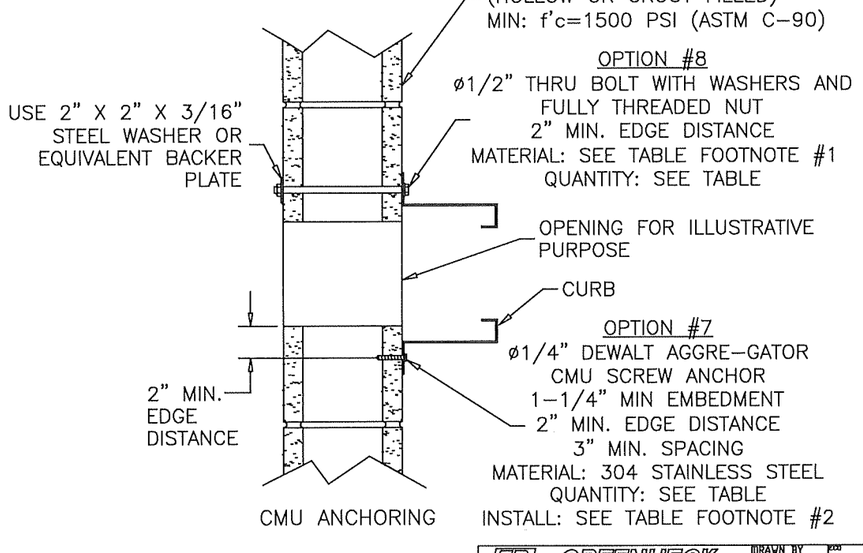
CWB/CW MOUNTING – LOCATION C

UNIT SIZE	NO. OF FASTENERS TOTAL
060–161	8
180–300	12

REVISION	DCR	BY	DATE	SYM
UPDATE CURB DESCRIPTION / BOLT SIZES AND THE CURB TO WALL MOUNTING QTY'S		SP1	11/07 2012	1
REMOVED PER SIDE COLUMN		SP1	05/06 2013	2
CHANGED FASTNER QTY & CALLOUT		TJB	01/17 2019	3
ADDED WALL BRACKET, G SIZES, AND CUE SIZES		BJB	06/26 2019	4
UPDATED ANCHORING		DFY	09/11 2022	5



CONCRETE DECK ANCHORING



CMU ANCHORING

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEP 09 2024

PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 24–0919.01
Expiration Date 09/23/2025
By
Miami–Dade Product Control

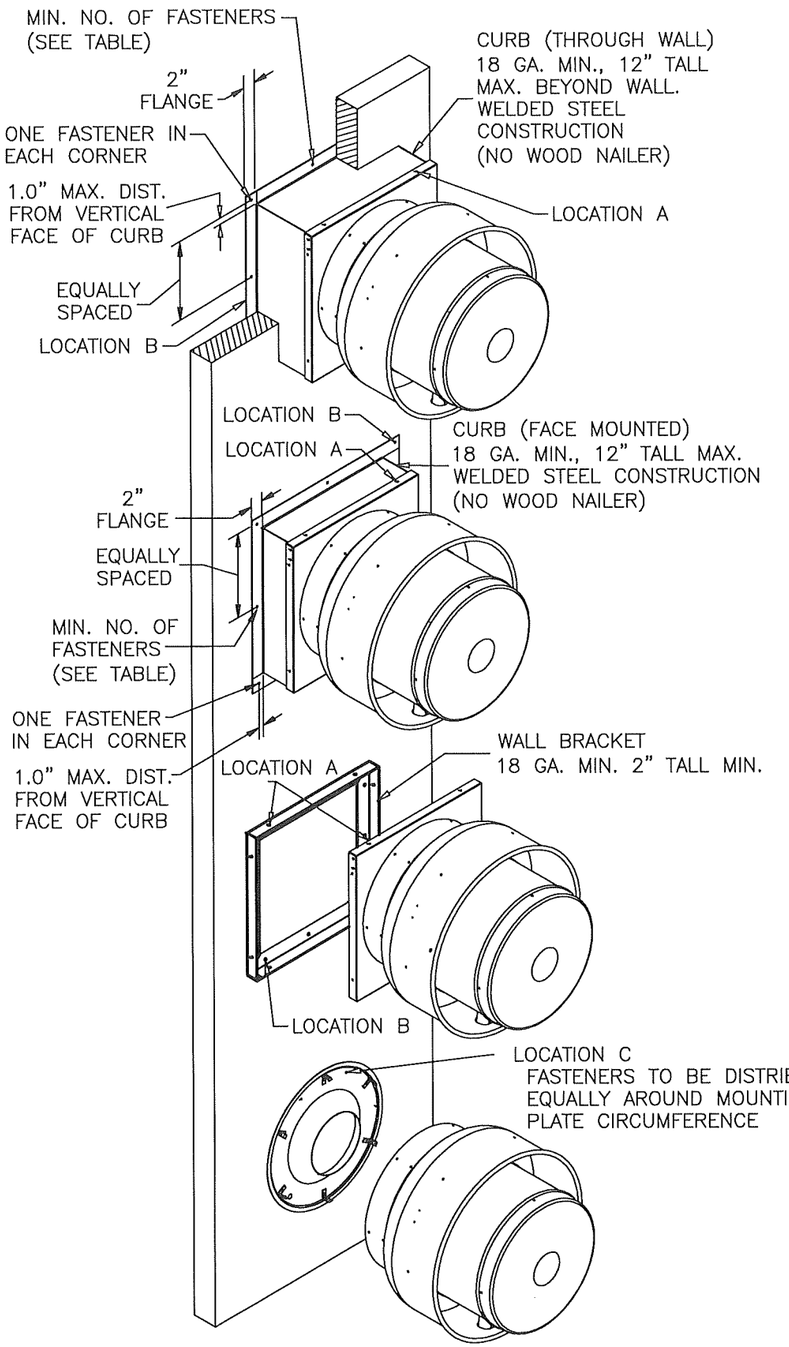
RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

WALL SUBSTRATE DETAILS – LOCATION B AND C

GREENHECK
P.O. BOX 410 SCHOFIELD, WI 54476

DRAWN BY	RANKER
DATE	08/16/2024
SUPERSEDES	
SCALE	1/5
TITLE	CUE/CUBE–060–300 CW/CWB–60–300 SIDEWALL MOUNTING SHEET 8 OF 9
CAD DRAWING NO.	HSA3008

REVISION	DCR	BY	DATE	SYM



SECTION CUTS SHOW MULTIPLE OPTIONS FOR ILLUSTRATIVE PURPOSES. DETAILS ARE NOT DRAWN TO SCALE

FAN TO CURB OR WALL BRACKET MOUNTING – LOCATION A

UNIT SIZE	FASTENERS	
	PER SIDE	TOTAL
CUE–060–065–070–075–080–085–090–095–099–100/101–120/121–130/131–140/141/HP–142HP–160/161/HP–162HP CUBE–098–099–100/101/HP–120/121–130/131–140/141/HP–160/161/HP/XP	3	12
CUE–180/HP–200/HP CUBE–180/HP–200/HP–220/HP–240/HP/XP	5	20
CUBE–300/HP/XP	9	36

FASTENERS ON EACH SIDE OF THE FAN ARE TO BE INSTALLED WITH ONE FASTENER 4 INCHES FROM EACH EDGE AND ONE FASTENER CENTERED. THE FASTENERS ARE TO BE EQUALLY SPACED 5/16 INCH SELF–DRILLING SCREWS. WALL BRACKETS SHALL USE 1/4–20 S.S. BOLTS.

SQUARE CURB OR WALL BRACKET TO WALL MOUNTING – LOCATION 'B'
MINIMUM NUMBER OF FASTENERS TO ATTACH CURB TO STRUCTURE

UNIT SIZE	OPTION #1 TIMBER– NO. OF LAG SCREWS		OPTION #2 TIMBER– NO. OF THRU BOLTS		OPTION #3 STEEL WALL– NO. OF SELF DRILLING SCREWS		OPTION #4 STEEL WALL– NO. OF THRU BOLTS	
	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]	PER SIDE[4]	TOTAL[5]
CUE/CUBE ≤ 161	1	8	0	4	1	8	0	4
CUE/CUBE > 161	2	12	1	8	2	12	1	8

1) UNLESS NOTED, ANCHORS TO BE 300 SERIES S.S. COND. CW (Fy=65ksi MIN) OR ZINC PLATED GRADE 2 STEEL (Fy=57ksi MIN.). ZINC PLATED ANCHORS SHALL BE SEALED WITH LIQUID PROSOCO FLASHING (OR SEALED WITH AN EQUAL PRODUCT) UNLESS FLASHING CAN BE PROVIDED.
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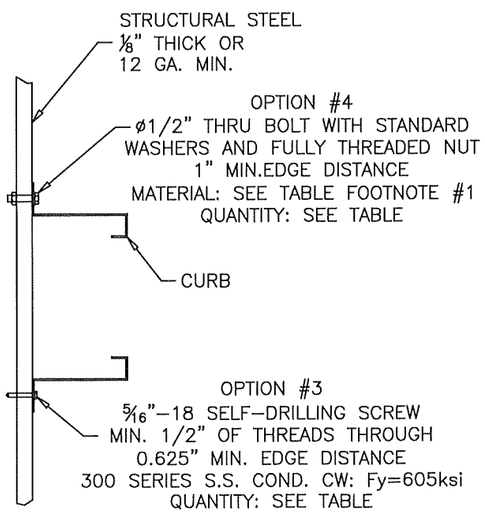
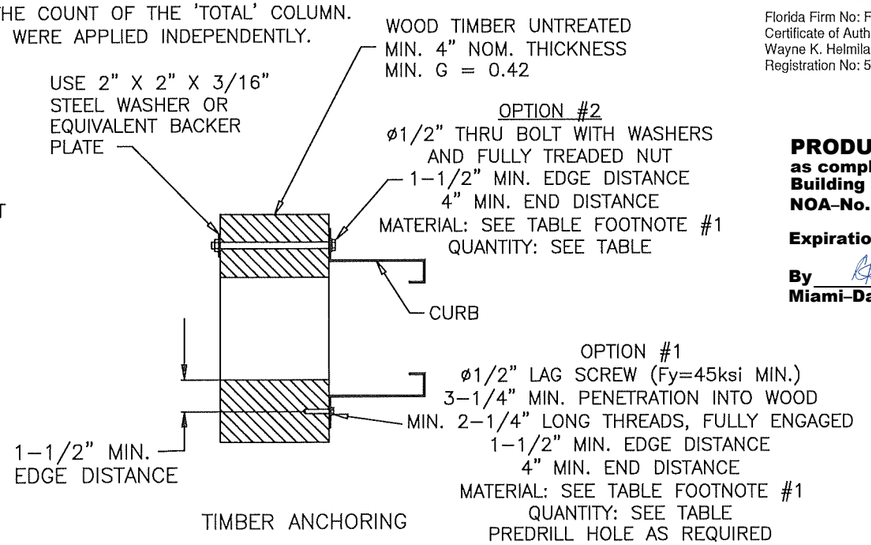


STEEL ANCHORING



TIMBER ANCHORING

WALL SUBSTRATE DETAILS – LOCATION B AND C

CWB/CW MOUNTING – LOCATION C

UNIT SIZE	NO. OF FASTENERS
	TOTAL
060–161	8
180–300	12

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEP 09 2024

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TITLE	CUE/CUBE–060–300 CW/CWB–60–300 SIDEWALL MOUNTING SHEET 9 OF 9
DRAWN BY	BANKER
DATE	08/16/2024
SUPERSEDES	
SCALE	1/5
CAD DRAWING NO.	HSA3009