



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](http://www.miamidade.gov/economy)

**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 05/11/2022, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, 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**

**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 **revises NOA # 22-0606.03** 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.**



01/04/24

NOA No. 23-1120.06  
Expiration Date: September 23, 2024  
Approval Date: January 11, 2024  
Page 1

**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. 23-1120.06**

**Expiration Date: September 23, 2024**  
**Approval Date: January 11, 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 5<sup>th</sup> 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.



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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 23-1120.06  
Expiration Date: September 23, 2024  
Approval Date: January 11, 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 6<sup>th</sup> 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.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 23-1120.06**  
**Expiration Date: September 23, 2024**  
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**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 6<sup>th</sup> 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.



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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 23-1120.06  
Expiration Date: September 23, 2024  
Approval Date: January 11, 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 7<sup>th</sup> 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.



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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 23-1120.06  
Expiration Date: September 23, 2024  
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**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 7<sup>th</sup> 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.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 23-1120.06**  
**Expiration Date: September 23, 2024**  
**Approval Date: January 11, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

**A. DRAWINGS “Submitted under NOA # 22-0606.03”**

1. Drawing No. HSA3001 to HSA3009, titled “Cue/Cube, G/GB and CW/CWB-060-300”, sheets 1 through 9 of 9, dated 05/11/2022, 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 letter of code conformance to the 8<sup>th</sup> edition (2023) of the FBC, dated 10/27/2023, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

**“Submitted under NOA # 22-0606.03”**

2. Statement letter of code conformance to the 7<sup>th</sup> edition (2020) of the FBC, dated 07/08/2022, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.



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Carlos M. Utrera, P.E.  
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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 ¼-20 X ¾ DACROMET COATED	4	RIVET, ¼ X ¾ SEMI TUBULAR 5052 ALUM.	4	SCREW, ¼-20 X ¾ 18-8/SS	4	PAL NUT, ¼-20 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					

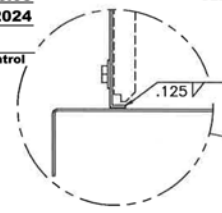
ALL DIMENSIONS ARE IN INCHES

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 DR 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 DR 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 DR 26.00	1.75	20.35	32.20	27.63	21.00	84
CUBE-160/161/HP & CWB-161/HP	22.00 DR 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



JUL 12 2022

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **22-0606.03**  
Expiration Date **09/23/2024**  
By *[Signature]*  
Miami-Dade Product Control



WINDBAND TO CURB CAP CONNECTION  
TYP. ALL MODELS

**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-01000005081  
Certificate of Authorization #9090  
Wayne K. Helmla  
Registration No. 59092

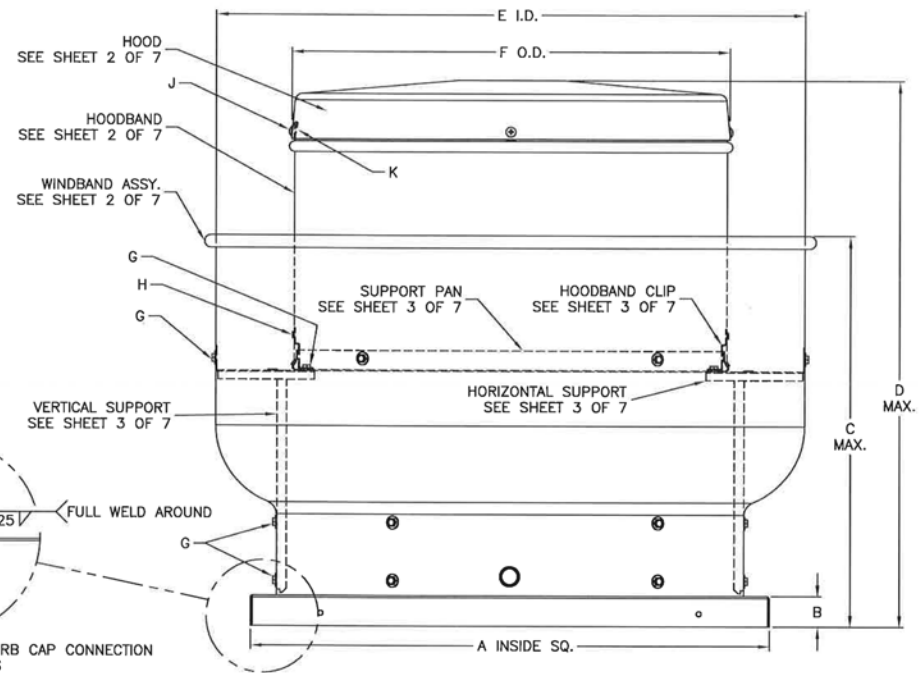
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **23-1120.06**  
Expiration Date **09/23/2024**

By *[Signature]*  
Miami-Dade Product Control

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	NO.	BY	DATE	CHK
CREATE DWG.		DFY	06/05/2022	①
ADDED CUE/CUBE-099		SP1	06/05/2022	②
ADDED CW AND CWB UNITS		SP1	06/05/2022	③
REMOVED MAX WIND VELOCITY AND UPDATED NOTE NUMBER 7		SP1	06/05/2022	④
CORRECTED SPELLING ERRORS		SP1	06/05/2022	⑤
UPDATE THE MAX DESIGN LOAD		SP1	06/05/2022	⑥
UPDATE FASTENER G QTY		SP1	06/05/2022	⑦
ADDED CUE SIZES AND MODEL NAME EQUIVALENTS		B.J.B	06/05/2022	⑧
UPDATED SHEET NO. IN TITLE BLOCK		DFY	06/05/2022	⑨



**NOTES:**

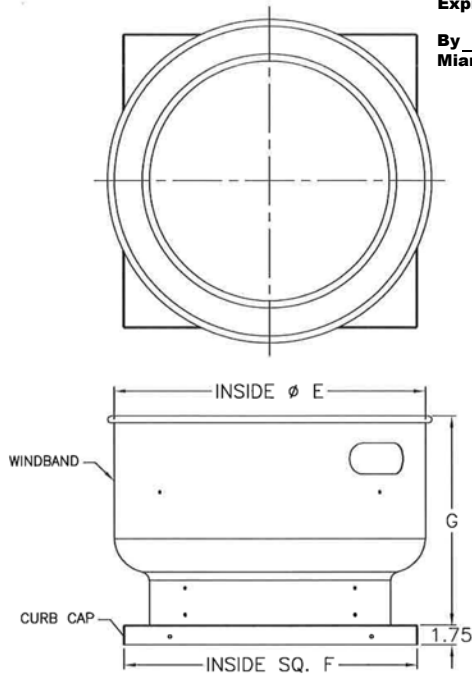
- MODELS CUE, CUBE, CW, AND CWB HAVE BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH MIAMI DADE TEST PROTOCOL TAS-201 (LARGE MISSILE IMPACT), TAS-203 (CYCLIC WIND LOADING) AND TAS-202 (STATIC LOADING).
- THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
- DESIGN TESTING AND INSTALLATION CONFORMS TO AISC MANUAL OF STEEL CONSTRUCTION AND ALUMINUM DESIGN MANUAL.
- FAN CURBS MUST BE ANCHORED TO ROOF FRAMING MEMBERS AND NOT TO THE ROOFING SYSTEM.
- 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.
- DESIGN, TESTING, AND INSTALLATION CONFORMS TO FLORIDA BUILDING CODE.
- 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

 <b>GREENHECK</b> P.O. BOX 410 SCHIFFELD, VT 54476	DRAWN BY YAKLOVICH	DATE 05/11/2022
	SUPERSEDES	
	SCALE 1/32	CAD DRAWING NO. HSA3001
TITLE CUE/CUBE-060-300 SHEET 1 OF 9		

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1120.06

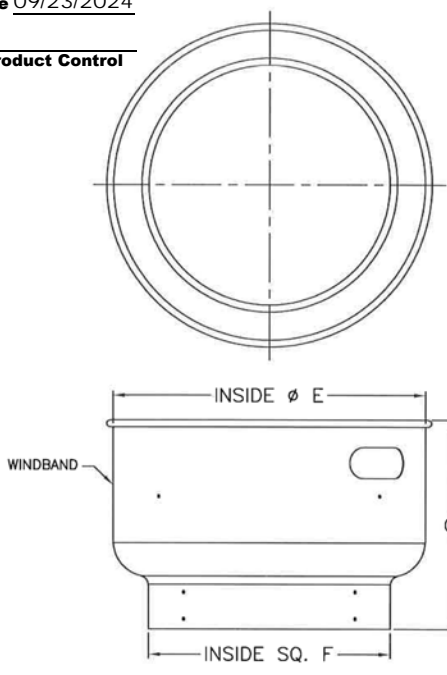
Expiration Date 09/23/2024

By *R. Helmla*  
Miami-Dade Product Control



**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
CUE-080-085-090	21.00	19.00	11.50		
CUE-095	21.00	19.00	13.44		
CUE-098-099-100/101/HP-120/121-130/131	23.63	19.00	17.48	0.051 ALUM. 1100-H12	
CUE-140/141/HP-160/161/HP	27.63	22.00 26.00	18.60		
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		
CUBE-140/141/HP-160/161/HP/XP	27.63	22.00 26.00	18.60	0.051 ALUM. 1100-H12	
CUBE-180/HP-200/HP	35.50	30.00	21.00		0.063 ALUM. 1100-H12/H14
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		
S-CUBE-140/141/HP-160/161/HP	27.63	22.00	18.60	0.051 ALUM. 1100-H12	
S-CUBE-200	35.50	30.00	20.97		
S-CUBE-240	40.88	34.00	25.50	0.063 ALUM. 1100-H22	
S-CUBE-300	48.31	40.00	29.09	0.080 ALUM. 1100-H22	

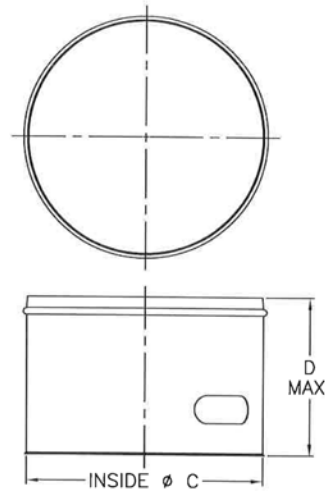


**WINDBAND ASSY.**  
1 REQ'D. PER UNIT

MODEL	E	F	G	WINDBAND
CW-060-065-070-075	18.38	14.75	11.38	
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	0.051 ALUM. 1100-H12
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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0606.03  
Expiration Date 09/23/2024

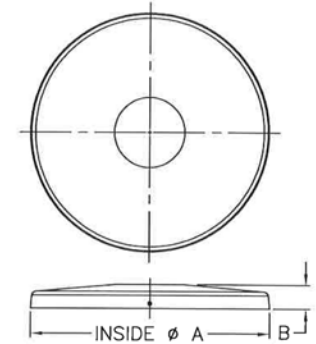
By *R. Helmla*  
Miami-Dade Product Control



**HOODBAND**  
1 REQ'D. PER UNIT

MODEL	C	D	HOOD
CUE/CW-060-065-070-075	12.41	5.47	
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	0.040 ALUM. 1100-H14
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	
CUBE/CWB-140/141/HP-160/161/HP/XP	20.94	14.25	0.040 ALUM. 1100-H14
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	
S-CUBE-140/141/HP-160/161/HP	20.94	14.25	0.040 ALUM. 1100-H14
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

REVISION	BY	DATE	REV
CREATE DWG.	DFY	06/12/2009	0
ADDED CUE/CUBE-099	SP1	05/19/2011	1
ADDED CW AND CVB UNITS	SP1	03/18/2011	2
ADDED CUE SIZES	BLB	06/07/2011	3
UPDATED SHEET TO IN TITLE BLOCK	DFY	05/11/2012	4



**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	
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	0.040 ALUM. 1100-H14
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	
S-CUBE-140/141/HP-160/161/HP	21.25	2.13	0.040 ALUM. 1100-H14
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	

**RICE**  
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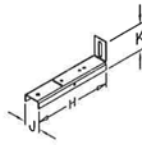
Florida Firm No. F-0100305081  
Certificate of Authorization #9090  
Wayne K. Helmla  
Registration No. 59092



ALL DIMENSIONS ARE IN INCHES

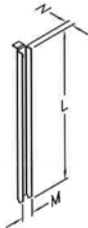
<b>GREENHECK</b> P.O. BOX 410 SCHENFIELD, WI 54476	DRAWN BY YANLOVICH DATE 05/11/2022 SUPERSEDES
TITLE CUE/CUBE-060-300 SHEET 2 OF 9	SCALE 1/4" = 1'-0" CADD DRAWING NO. HSA3002





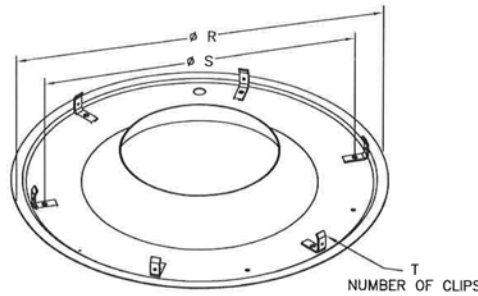
HORIZONTAL SUPPORT

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



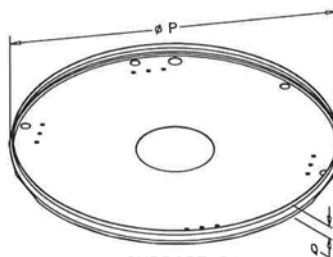
VERTICAL SUPPORT

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



MOUNTING PLATE  
1 REQ'D. PER UNIT

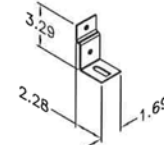
MODEL	R	S	T	SUPPORT PAN
CW-060-065-070-075	14.75	11.75	4	18 GA. GALV. G90
CW-080-085-090-095	17.88	15.00	4	18 GA. GALV. G90
CW/CWB-098-099-101-121-131	19.75	16.88	4	18 GA. GALV. G90
CW/CWB-141/HP-161/HP	22.13	19.38	4	18 GA. GALV. G90
CW/CWB-180/HP-200	27.75	25.00	6	18 GA. GALV. G90
CWB-220/HP-240/HP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



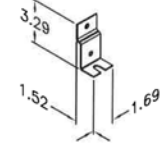
SUPPORT PAN  
1 REQ'D. PER UNIT

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

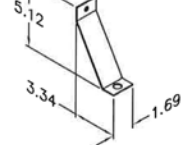
NO. 100000	REV.	BY	DATE	REV.
ADDED CUE/CUBE-099		SP1	05/19/2022	①
ADDED CW AND CWB UNITS		SP1	05/19/2022	②
ADDED CUE SIZES AND CURB CAP REINFORCEMENT PLATE		B.B.	06/09/2023	③
UPDATED SHEET NO. IN TITLE BLOCK		DFY	05/19/2022	④



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

**RICE**  
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Florida Firm No. F-01000005091  
Certificate of Authorization #9090  
Wayne K. Helmila  
Registration No. 59092



JUL 12 2022

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **22-0606.03**

Expiration Date **09/23/2024**

By *[Signature]*  
Miami-Dade Product Control

ALL DIMENSIONS ARE IN INCHES

<b>GREENHECK</b> P.O. BOX 410 SCHOFIELD, VT 54476	DRAWN BY YAKLOVICH 05/11/2022
TITLE CUE/CUBE-060-300 SHEET 3 OF 9	SCALE 1/4" AS DRAWING NEL HSA3003

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1120.06

Expiration Date 09/23/2024

By *[Signature]*  
Miami-Dade Product Control

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

REVISION	NO	BY	DATE	REV
CREATE DWG.		DFY	06/05/2009	(1)
ADDED G-097-098-099-103-123-133-143		SPI	05/05/2011	(2)
REMOVED MAX WIND VELOCITY AND UPDATED NOTE NUMBER 7		SPI	03/10/2012	(3)
CORRECTED SPELLING ERRORS		SPI	06/14/2012	(4)
UPDATE THE MAX DESIGN LOAD		SPI	11/07/2012	(5)
ADD FASTENER "Q" COLUMN		SPI	05/06/2019	(6)
ADDED G SIZES AND MODEL NAME EQUIVALENTS		RJB	06/07/2019	(7)
UPDATED SHEET NO IN TITLE BLOCK		DFY	05/01/2020	(8)

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)

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

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	12.38	18	NO
G-065	17.00	4.69	8.44	13.88	18.50	OR	12.38	18	
G-070	17.00	4.69	8.44	13.88	18.50	14.50	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	YES
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	
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	
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	YES
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	
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	



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Wayne K. Helms  
Registration No. 59092

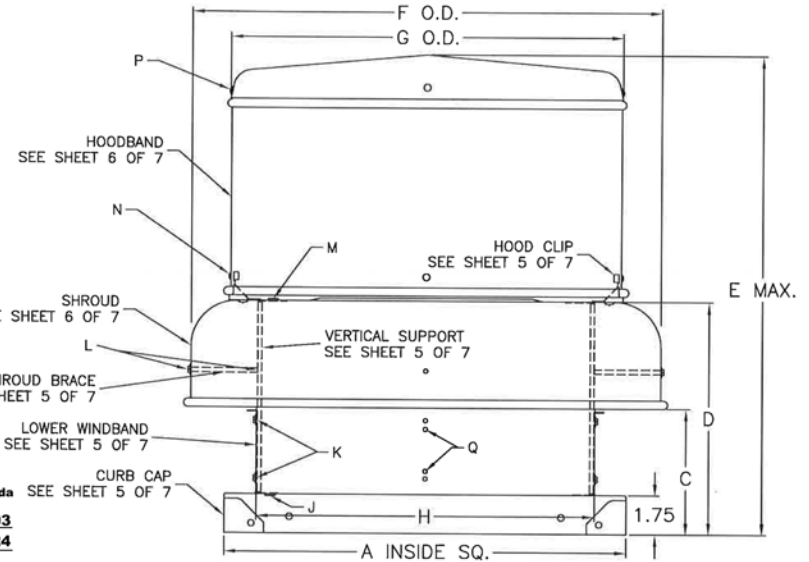
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0606.03

Expiration Date 09/23/2024

By *[Signature]*  
Miami-Dade Product Control

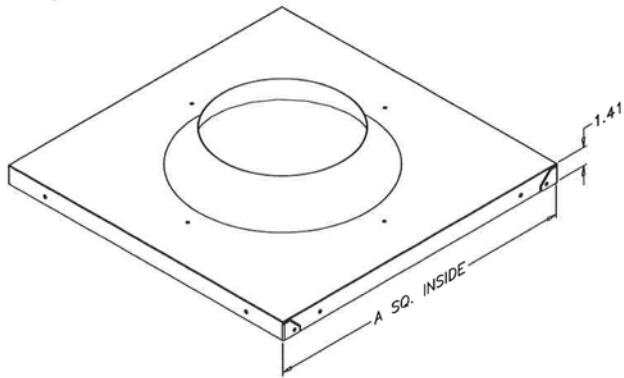
**NOTES:**

1. MODELS G AND GB HAVE BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH MIAMI DADE TEST PROTOCOL TAS-202 (STATIC LOADING), TAS 201 (MISSILE 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



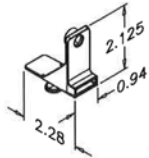
<b>GREENHECK</b> P.O. BOX 410 SCHENFIELD, WI 54476	DRAWN BY YAKLOVICH DATE 05/11/2022 SUPERSEDES
TITLE G/GB-060-300 SHEET 4 OF 9	SCALE 1/2 CAB DRAWING HEL HSA3004





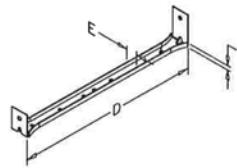
**CURB CAP**  
1 REQ'D. PER UNIT

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 ; 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	



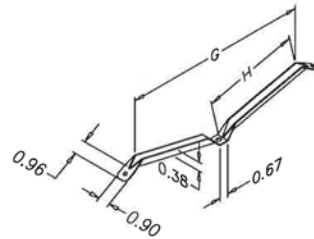
**HOOD CLIP**

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 ; G-140/143/HP-163	4	NYLON N1000 STL
GB-180/HP-200/HP ; 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 ; G-140HP/143HP	9.81	0.87	0.43	6	14 GA. GALV. G90
GB-160/161/HP ; 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



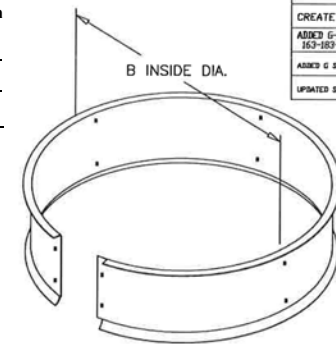
**SHROUD BRACE**

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 ; G-160/161/HP	13.12	6.43	3	18 GA. GALV. G90
GB-180/HP-200/HP ; 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

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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 ; G-140HP/143HP	21.41	4.00	
GB-160/161/HP ; 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	



JUL 12 2022

**RICE**  
**ENGINEERING**

105 School Creek Trail  
Luxemburg, VA 54217  
Phone 420-817-1042  
Fax 920-817-1100  
www.1020-INC.com

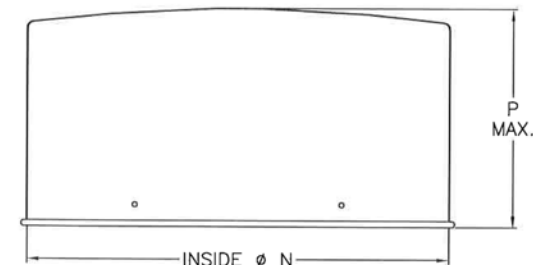
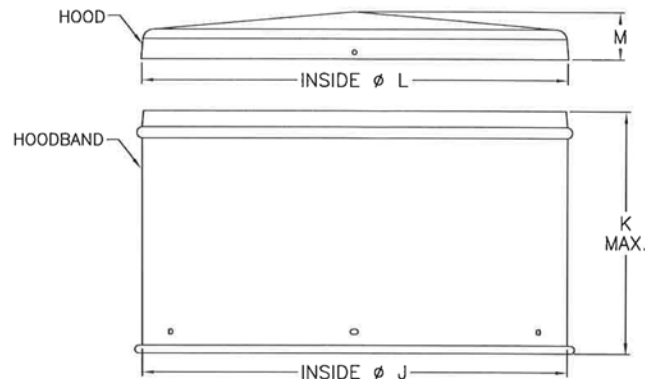
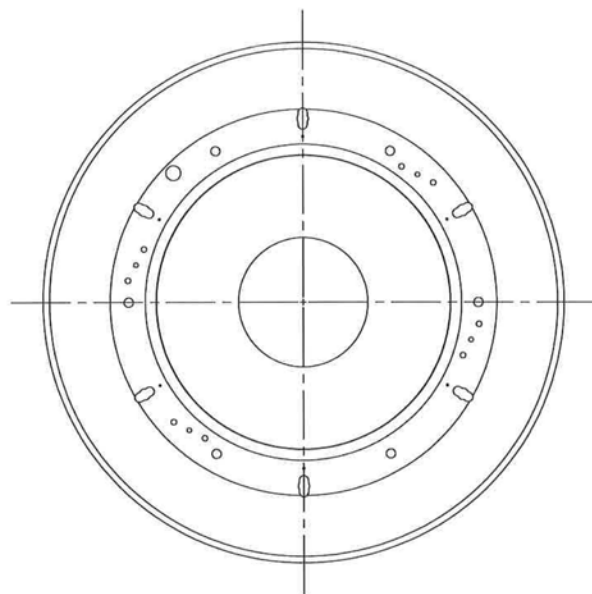
Florida Firm No. F-01000005081  
Certificate of Authorization #9090  
Wayne K. Helmila  
Registration No. 59092

ALL DIMENSIONS ARE IN INCHES

 <b>GREENHECK</b> P.O. BOX 410 SCHIEFFEL, WI 54476 TITLE:	DRAWN BY: YARLOVICH DATE: 05/11/2022 SUPERSEDES:
	SCALE: 1/4" CAD DRAWING NO.: HSA3005

G/GB-060-300  
SHEET 5 OF 9

REVISION	NO.	BY	DATE	ETN
CREATE DWG.		DFY	06/05/2003	①
ADDED G-097-098-099-103-123-130-143 163-183-203		SP1	05/02/2011	②
ADDED G SIZES		BJB	06/05/2015	③
UPDATED SHEET NO. IN TITLE BLOCK		DFY	05/15/2022	④



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	0.040 ALUM. 1100-H14	0.040 ALUM. 1100-H14	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

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	0.063 ALUM. 1100-H14
GB-180/HP-200/HP ; G-180/183/HP-200/203/HP	34.25	7.25	
GB-220/HP-240/HP	40.75	8.75	
GB-260-300/HP	46.00	8.75	



JUL 12 2022

**RICE**  
ENGINEERING

105 School Creek Trail  
Luxemburg, WI 54217  
Phone 920-617-1012  
Fax 920-617-1100  
www.rice-mc.com

Florida Firm No. F-01000005081  
Certificate of Authorization #9090  
Wayne K. Helmla  
Registration No. 59092

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By *[Signature]*  
Miami-Dade Product Control

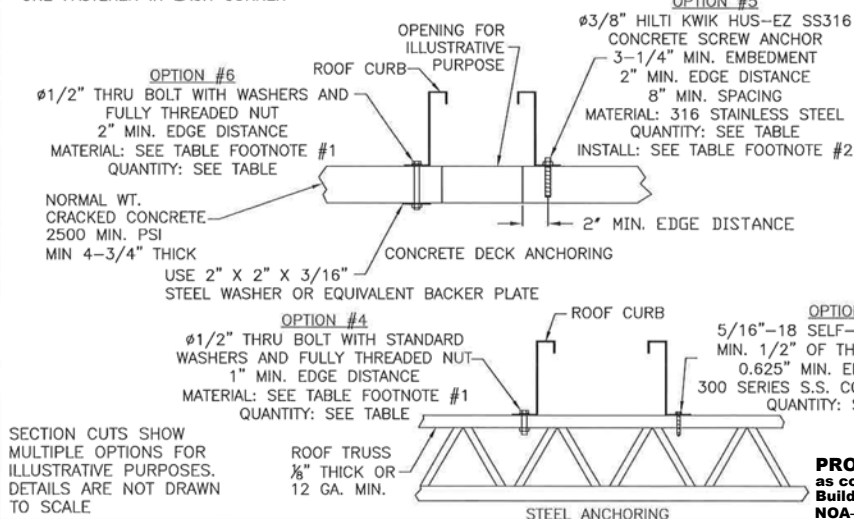
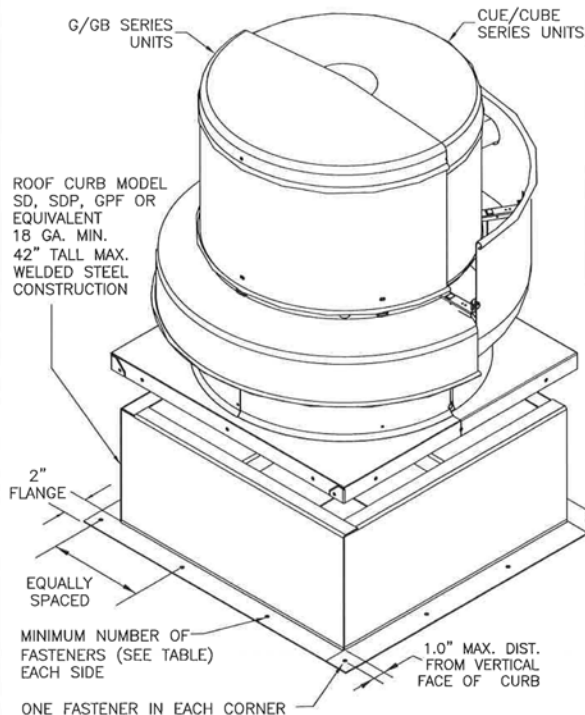
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ALL DIMENSIONS ARE IN INCHES

<b>GREENHECK</b> P.O. BOX 410 SCHIFFIELD, WI 54476	DRAWN BY YAKLOVICH DATE 05/11/2022 SUPERSEDES
TITLE G/GB-060-300 SHEET 6 OF 9	SCALE 1/4" CAB DRAWING NDL HSA3006



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

### 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 <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>
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 PROSOLO 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.

### RICE ENGINEERING

105 School Creek Trail  
Luxemburg, WI 54217  
Phone 920-817-1042  
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Florida Firm No. F-01000005081  
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Registration No. 59092

**OPTION #5**  
#3/8" HILTI KWIK HUS-EZ SS316  
CONCRETE SCREW ANCHOR  
3-1/4" MIN. EMBEDMENT  
2" MIN. EDGE DISTANCE  
8" MIN. SPACING  
MATERIAL: 316 STAINLESS STEEL  
QUANTITY: SEE TABLE  
INSTALL: SEE TABLE FOOTNOTE #2

**OPTION #3**  
5/16"-18 SELF-DRILLING SCREW  
MIN. 1/2" OF THREADS THROUGH  
0.625" MIN. EDGE DISTANCE  
300 SERIES S.S. COND. CW; Fy=65ksi  
QUANTITY: SEE TABLE

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Expiration Date 09/23/2024

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Miami-Dade Product Control

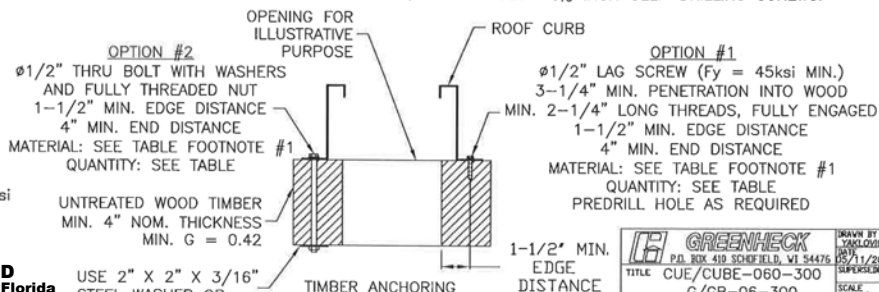
### FAN TO CURB MOUNTING

UNIT SIZE	UNIT SIZE	
	PER SIDE	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-120/121-130/131/140/141/HP-160/161/HP 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 CUBE-300/HP/XP S-CUBE-300 GB-260-300/HP	3	12
	5	20
	9	36

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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.



**OPTION #2**  
#1/2" THRU BOLT WITH WASHERS  
AND FULLY THREADED NUT  
1-1/2" MIN. EDGE DISTANCE  
4" MIN. END DISTANCE  
MATERIAL: SEE TABLE FOOTNOTE #1  
QUANTITY: SEE TABLE  
UNTREATED WOOD TIMBER  
MIN. 4" NOM. THICKNESS  
MIN. G = 0.42  
USE 2" X 2" X 3/16"  
STEEL WASHER OR  
EQUIVALENT BACKER PLATE

**OPTION #1**  
#1/2" LAG SCREW (Fy = 45ksi MIN.)  
3-1/4" MIN. PENETRATION INTO WOOD  
MIN. 2-1/4" LONG THREADS, FULLY ENGAGED  
1-1/2" MIN. EDGE DISTANCE  
4" MIN. END DISTANCE  
MATERIAL: SEE TABLE FOOTNOTE #1  
QUANTITY: SEE TABLE  
PREDRILL HOLE AS REQUIRED

**GREENHECK**  
P.O. BOX 410 SCHENCK, WI 54476  
DATE 11/1/2022  
SUPERSEDES  
SCALE 1/8"  
CAB DRAWING NEL  
HSA3007

REVISION	NO.	BY	DATE	STA.
CREATE DWG.		DFY	06/04/2021	(2)
ADDED CUE/CUBE-099 AND G-097-099-099 102-103-133-143-163-183-203		SP1	06/04/2021	(1)
UPDATE ROOF CURB DESCRIPTION UPDATE CURB TO DECK MOUNTING STYS		SP1	06/04/2021	(2)
ADD FASTENER TOTALS		SP1	06/04/2021	(3)
CHANGED FASTENER CALLOUTS		TJB	06/04/2021	(4)
ADDED G SIZES AND CUE SIZES		BJB	06/04/2021	(5)
UPDATED ANCHERING		DFY	06/04/2021	(6)



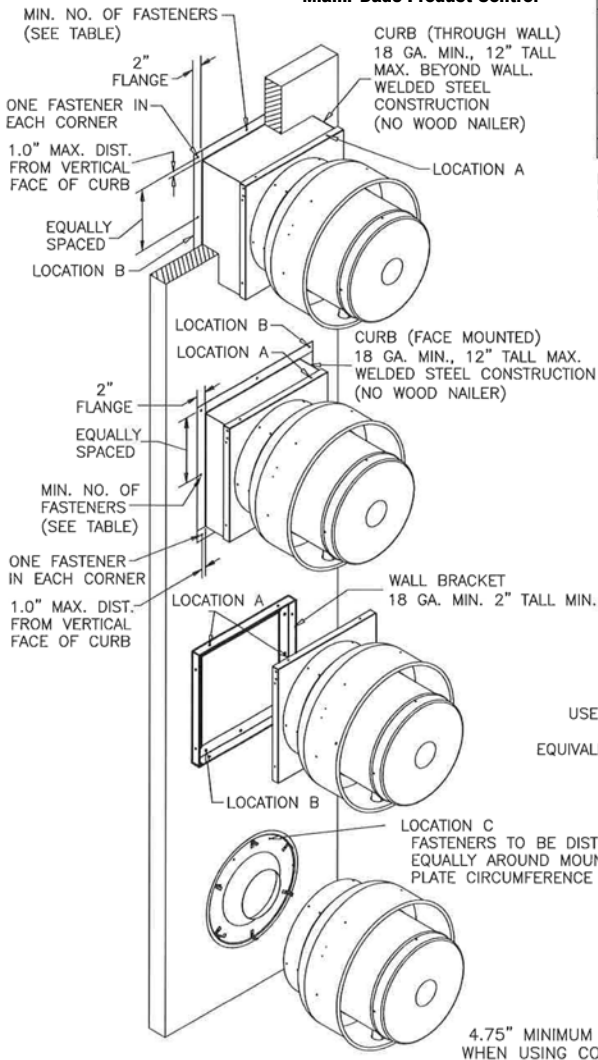
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SECTION CUTS SHOW MULTIPLE OPTIONS  
FOR ILLUSTRATIVE PURPOSES.  
DETAILS ARE NOT DRAWN TO SCALE

#### FAN TO CURB OR WALL BRACKET MOUNTING - LOCATION A

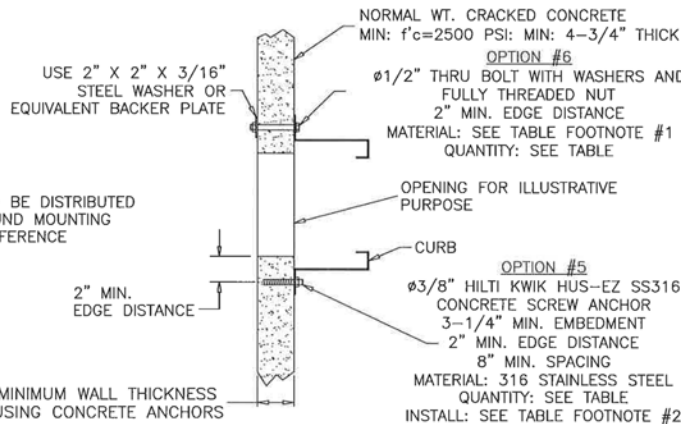
UNIT SIZE	FASTENERS	
	PER SIDE	TOTAL
CUE-060-065-070-075-080-085-090-095-099-100/101-120/121-130/131-140/141/HP-142HP-160/161/HP-162HP	3	12
CUBE-098-099-100/101/HP-120/121-130/131-140/141/HP-160/161/HP/XP	5	20
CUE-180/HP-200/HP	9	36
CUBE-180/HP-200/HP-220/HP-240/HP/XP		
CUBE-300/HP/XP		

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  $\frac{3}{8}$  INCH SELF-DRILLING SCREWS. WALL BRACKETS SHALL USE  $\frac{3}{8}$ -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 <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>
CUE/CUBE ≤ 161	1	8	0	4	5	24	0	4
CUE/CUBE > 161	2	12	1	8	10	44	1	8

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



CONCRETE DECK ANCHORING

#### CWB/CW MOUNTING - LOCATION C

UNIT SIZE	NO. OF FASTENERS	
	PER SIDE	TOTAL
060-161	8	
180-300	12	

**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-01000005081  
Certificate of Authorization #9090  
Wayne K. Helmila  
Registration No. 59092

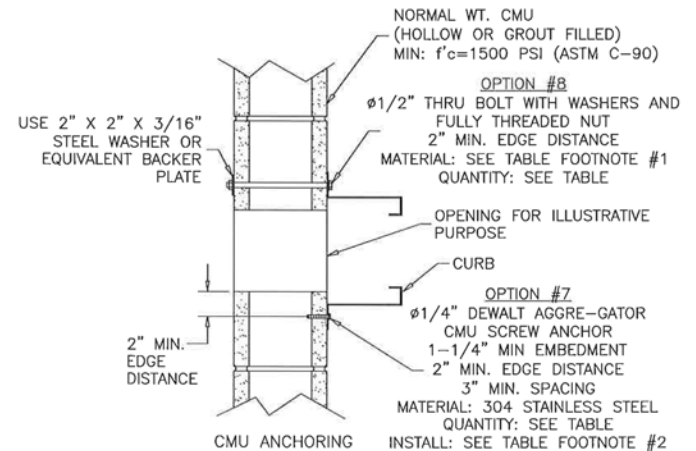
REVISION	BY	DATE	DESCRIPTION
1	SP1	01/11/22	UPDATE CURB DESCRIPTION / BOLT SIZES AND THE CURB TO WALL MOUNTING QTY'S
2	SP1	05/05/22	REMOVED PER SIDE COLUMN
3	TJB	05/05/22	CHANGED FASTENER QTY & CALLOUT
4	BJB	06/09/22	ADDED WALL BRACKET, G SIZES, AND CUE SIZES
5	DFY	06/09/22	UPDATED ANCHORING



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0606.03

Expiration Date 09/23/2024

By *[Signature]*  
Miami-Dade Product Control



WALL SUBSTRATE DETAILS - LOCATION B AND C

<b>GREENHECK</b>	DRAWN BY: YAKOVLEVICH
P.O. BOX 410 SCHOFIELD, WI 54476	DATE: 05/11/22
TITLE: CUE/CUBE-060-300	SUPERSEDES:
CW/CWB-60-300	SCALE: 1/2"
SIDEWALL MOUNTING	CAD DRAWING NO. HSA3008
SHEET 8 OF 9	



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Expiration Date 09/23/2024

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REVISION NO. DATE

FAN TO CURB OR WALL BRACKET MOUNTING - LOCATION A

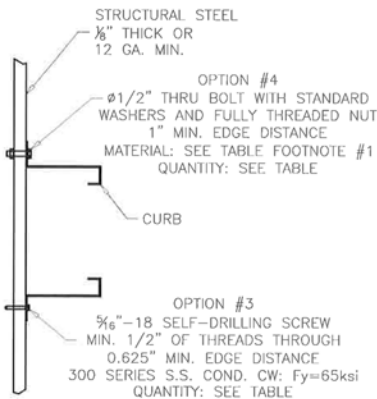
UNIT SIZE	FASTENERS	
	PER SIDE	TOTAL
CUE-060-065-070-075-080-085-090-095-099-100/101-120/121-130/131-140/141/HP-142HP-160/161/HP-162HP	3	12
CUBE-098-099-100/101/HP-120/121-130/131-140/141/HP-160/161/HP/XP		
CUE-180/HP-200/HP	5	20
CUBE-180/HP-200/HP-220/HP-240/HP/XP		
CUBE-300/HP/XP	9	36

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  $\frac{5}{8}$  INCH SELF-DRILLING SCREWS. WALL BRACKETS SHALL USE  $\frac{3}{4}$ -20 S.S. BOLTS.

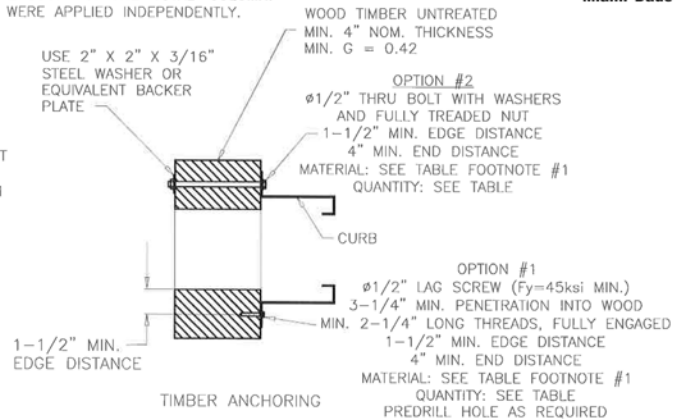
SQUARE CURB OR WALL BRACKET TO WALL MOUNTING - LOCATION 'B'  
MINIMUM NUMBER OF FASTENERS TO ATTACH CURB TO STRUCTURE

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 <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>	PER SIDE <sup>4</sup>	TOTAL <sup>5</sup>
CUE/CUBE $\leq$ 161	1	8	0	4	1	8	0	4
CUE/CUBE > 161	2	12	1	8	2	12	1	8

- 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 PROSO CO FLASHING (OR SEALED WITH AN EQUAL PRODUCT) UNLESS FLASHING CAN BE PROVIDED.
- ALL ANCHORS TO BE INSTALLED PER THE MANUFACTURER RECOMMENDATIONS.
- ALL ANCHOR SUBSTRATES BY OTHERS.
- CORNER FASTENERS ARE EXCLUDED FROM 'PER SIDE' COLUMN.
- THE (4) CORNER FASTENERS ARE INCLUDED IN THE COUNT OF THE 'TOTAL' COLUMN.
- 150PSF UPLIFT AND 150PSF LATERAL WINDLOADS WERE APPLIED INDEPENDENTLY.



STEEL ANCHORING



WALL SUBSTRATE DETAILS - LOCATION B AND C

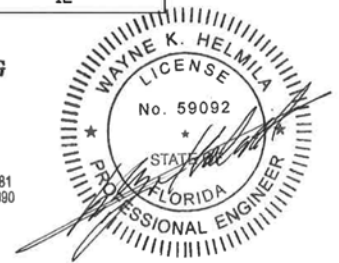
CWB/CW MOUNTING - LOCATION C

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

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JUL 12 2021

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

<b>GREENHECK</b> P.O. BOX 410 SCHEFFIELD, WI 54216 TEL 920/617-1042 FAX 920/617-1100 WWW.GREENHECK.COM	DESIGNED BY YANLOVICH	DATE 08/11/22
	TITLE CUE/CUBE-060-300 CW/CWB-60-300 SIDEWALL MOUNTING	SCALE 1/8"
	CAB. DRAWING NO. HSA3009	
	SHEET 9 OF 9	