



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

Greenheck Fan Corporation
P.O. 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: Model KSQ/XKID Steel Rooftop Fans

APPROVAL DOCUMENT: Drawing No. **100870497**, titled "KSQ/XKID High Wind Certification", sheets 1 through 13 of 13, dated 03/07/2025, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo Schofield, WI or Knoxville, TN and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as the approval document mentioned above. The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



03/25/25

NOA No. 25-0131.01
Expiration Date: April 3, 2030
Approval Date: April 3, 2025
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **100870497**, titled “KSQ/XKID High Wind Certification”, sheets 1 through 13 of 13, dated 03/07/2025, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

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,
along with marked-up drawings and installation diagram of the Model KSQ-24 Fan,
prepared by Quast Consulting & Testing, Inc., Test Report No. **QCT24-7323.01**,
dated 09/05/2024, signed and sealed by Brian M. Sasman, 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,
along with marked-up drawings and installation diagram of the Model KSQ-33 Fan,
prepared by Quast Consulting & Testing, Inc., Test Report No. **QCT24-7323.02**,
dated 09/05/2024, signed and sealed by Brian M. Sasman, P.E.

C. CALCULATIONS

1. Anchor verification calculations, prepared by Rice Engineering, dated 03/20/2025,
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

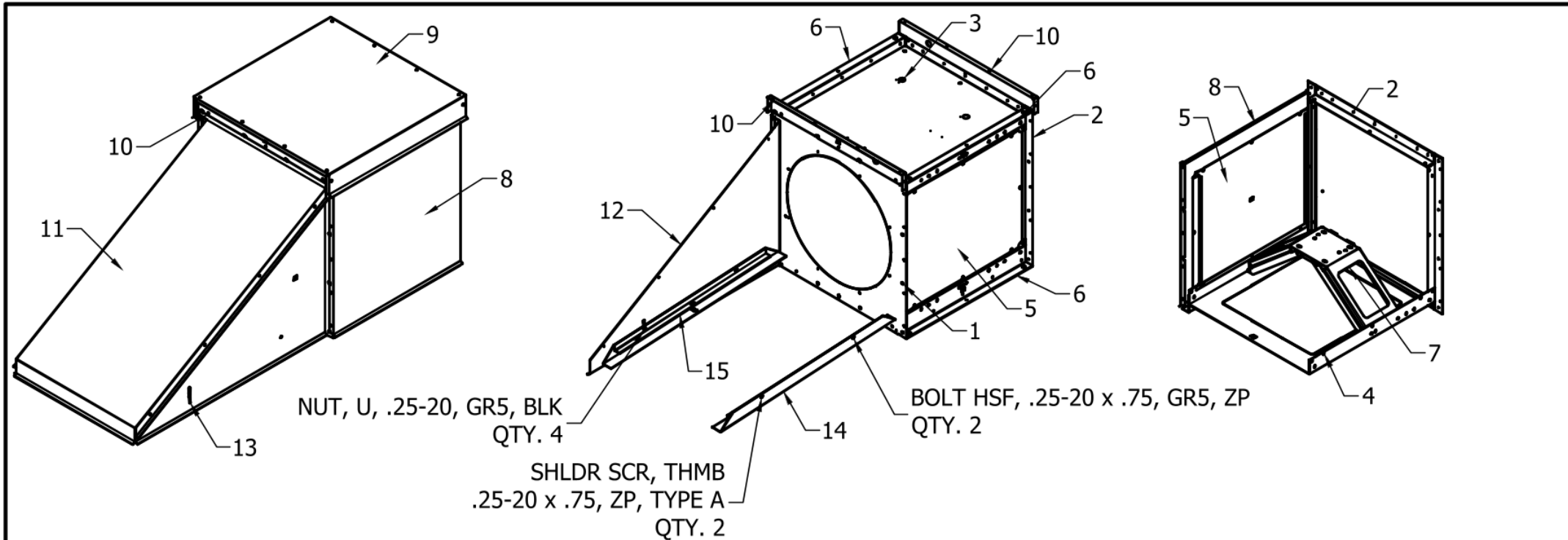
1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Rice Engineering, dated 01/15/2025, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest, issued by Rice Engineering, dated 01/15/2025, signed and sealed by Wayne K. Helmila, P.E.

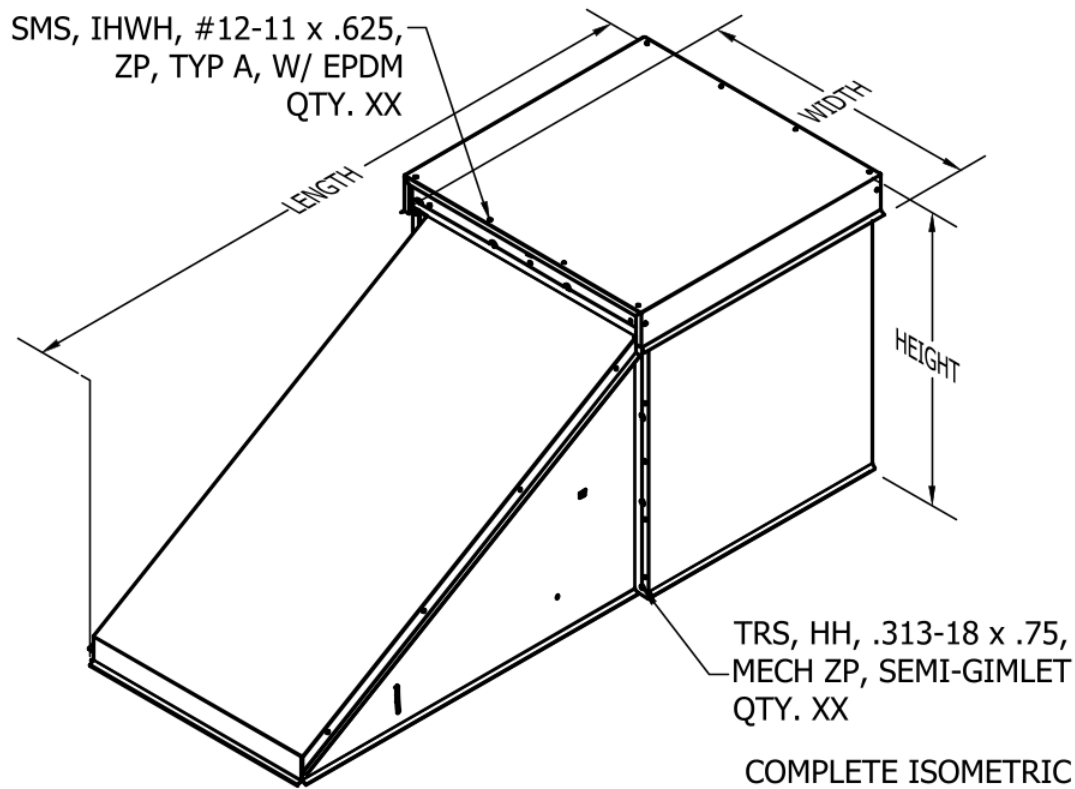


Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 25-0131.01
Expiration Date: April 3, 2030
Approval Date: April 3, 2025



PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 25-0131.01
Approval Date 04/03/2025
By *[Signature]*
Miami-Dade Product Control

	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	WEIGHT(LBS)	SMSFSRQTY	TRFSFRQTY	DESIGN PSF
KSQ-7	35.93	15.25	16.35	70	36	49	90
KSQ-9	41.76	18.99	20.09	90	36	53	90
KSQ-12	50.00	22.15	23.25	120	36	69	90
KSQ-15	62.14	25.89	26.99	170	36	73	90
KSQ-16	65.27	27.90	29.00	180	46	76	90




COMPLETE ISOMETRIC VIEW

ITEM	QTY	DESCRIPTION
1	1	INLET PANEL
2	1	OUTLET PANEL
3	1	TOP PANEL
4	1	BOTTOM PANEL
5	2	ACCESS DOOR
6	4	ISOLATOR RAIL
7	1	MOTOR PLATE BRACKET
8	2	OUTDOOR ACCESS DOOR
9	1	OUTDOOR TOP PANEL
10	2	OUTDOOR END CONDUIT
11	1	UNTEMPERED SUPPLY TOP
12	1	UNTEMPERED SUPPLY SIDE LEFT
13	1	UNTEMPERED SUPPLY SIDE RIGHT
14	2	UNTEMPERED SUPPLY BOTTOM RAIL 1
15	2	UNTEMPERED SUPPLY BOTTOM RAIL 2
16	1	UNTEMPERED SUPPLY BOTTOM PANEL CUTOUT
17	1	UNTEMPERED SUPPLY OUTLET PANEL CUTOUT

NOTES:

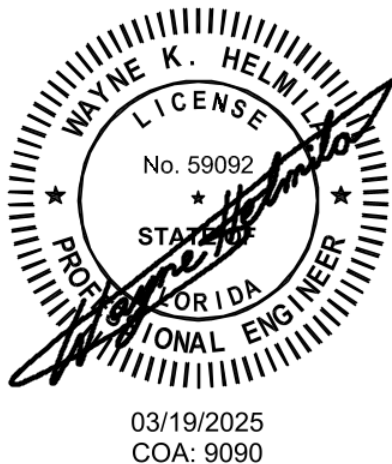
- MODEL KSQ HAS BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH MIAMI DADE TEST PROTOCOL TAS-201 (LARGE MISSILE IMPACT) AND TAS-202 (STATIC LOADING).
- ROOF STRUCTURE MUST BE DESIGNED TO WITHSTAND THE WEIGHT AND LOADING TRANSMITTED BY ROOF FANS. FASTENERS SHALL BE AS SPECIFIED AND INSTALLED AS DETAILED.
- DESIGN, TESTING, AND INSTALLATION CONFORMS TO FLORIDA BUILDING CODE.
- TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- THESE FANS HAVE NOT BEEN TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS-100(A)-95.
- THIS APPROVAL IS FOR THE STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY, IT DOES NOT INCLUDE ANY INTERIOR MECHANISM OR ELECTRICAL COMPONENT.
- DEPENDING ON FAN ORIENTATION, ITEM PAIRS 16 & 17 WOULD REPLACE ITEMS 4 & 2 RESPECTIVELY.



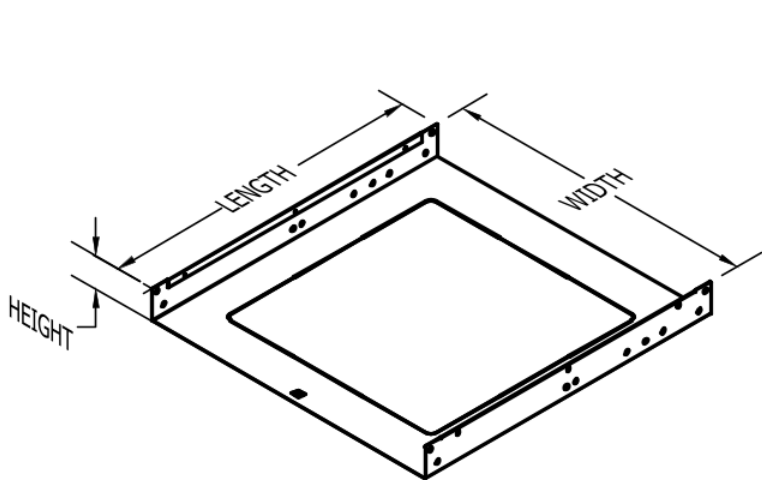
**KSQ / XKID HIGH WIND
CERTIFICATION,
KSQ-7 THRU KSQ-16 / XKID-7
THRU XKID-16**

DRAWN BY HALMSTAD	ECO
DATE 03/07/2025	ENG REF
SUPERSEDES	
SCALE	SHEET 1 OF 13
CAD DRAWING NO 100870497	

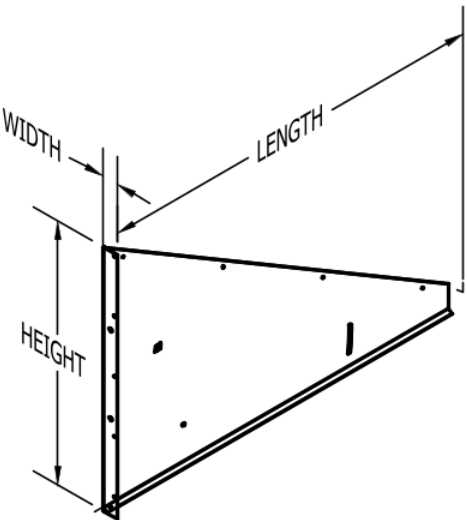
RICE
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105 School Creek Trail
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www.rice-inc.com
Florida Firm No: F-0100005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092



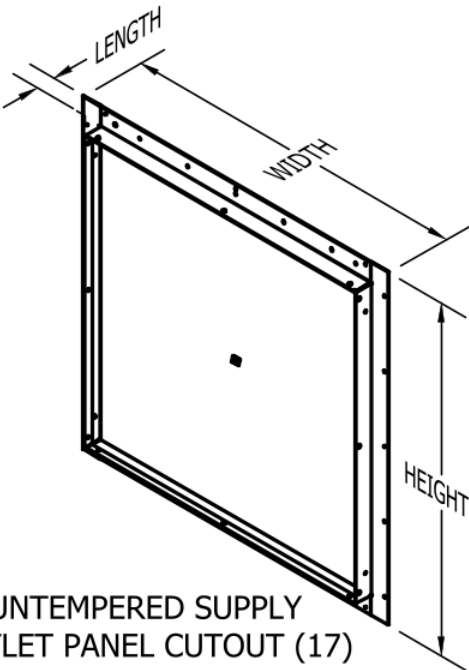
REVISION	SYM
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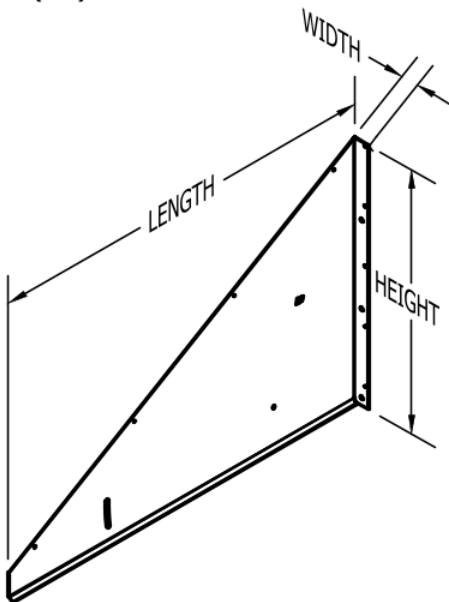
UNTEMPERED SUPPLY
BOTTOM PANEL
CUTOUT (16)



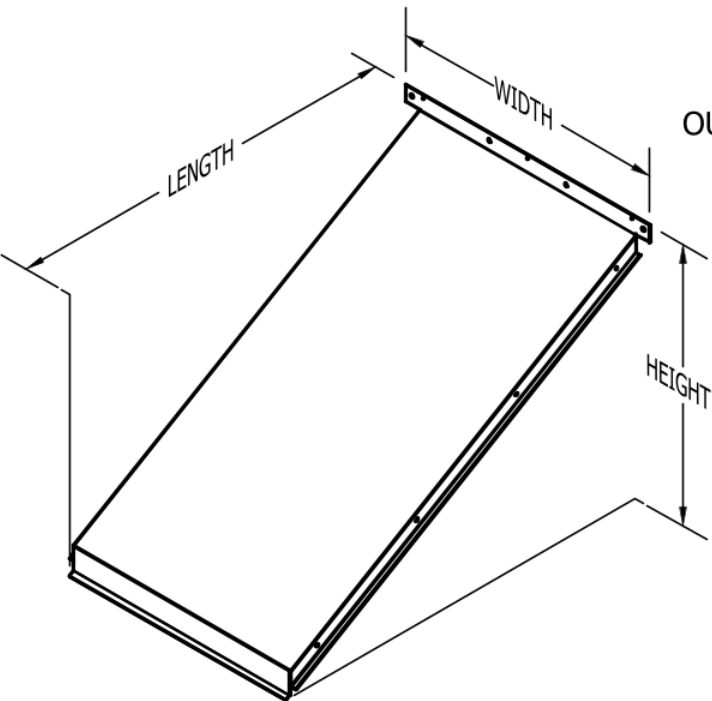
UNTEMPERED SUPPLY
SIDE LEFT (12)



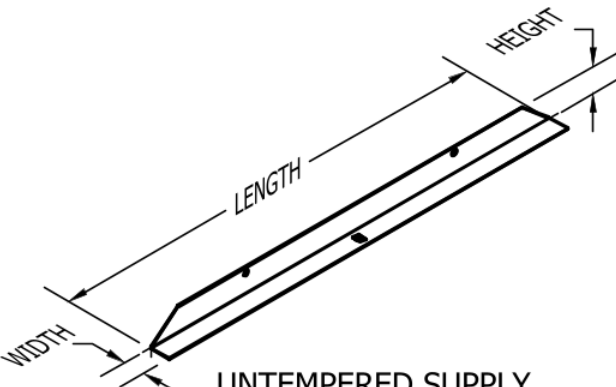
UNTEMPERED SUPPLY
OUTLET PANEL CUTOUT (17)



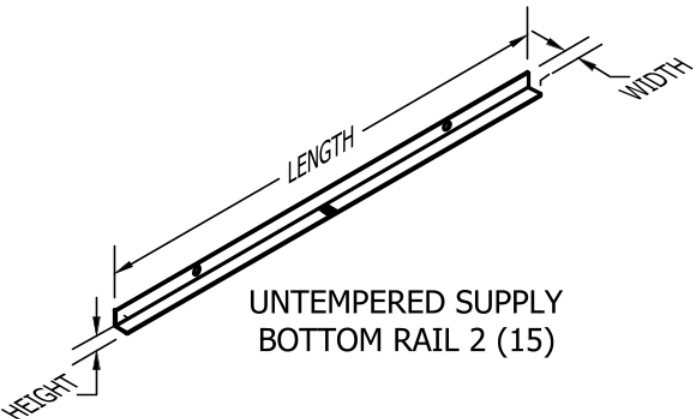
UNTEMPERED SUPPLY
SIDE RIGHT (13)



UNTEMPERED SUPPLY
TOP (11)



UNTEMPERED SUPPLY
BOTTOM RAIL 1 (14)



UNTEMPERED SUPPLY
BOTTOM RAIL 2 (15)


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03/19/2025
COA: 9090

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NOA-No. 25-0131.01
Approval Date 04/03/2025
By *[Signature]*
Miami-Dade Product Control

ALL DIMENSIONS ARE IN INCHES


 GREENHECK TITLE KSQ / XKID HIGH WIND CERTIFICATION, KSQ-7 THRU KSQ-16 / XKID-7 THRU XKID-16	DRAWN BY HALMSTAD	ECO
	DATE 03/07/2025	ENG REF
	SUPERSEDES	
	SCALE	SHEET 2 OF 13
	CAD DRAWING NO 100870497	

	UNTEMPERED SUPPLY TOP (11)				UNTEMPERED SUPPLY SIDE LEFT (12)				UNTEMPERED SUPPLY SIDE RIGHT (13)				UNTEMPERED SUPPLY BOTTOM RAIL 1 (14)			
	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL
KSQ-7	20.39	14.35	14.24	18 GA	19.81	1.65	12.64	18 GA	19.81	1.65	12.64	18 GA	16.87	1.65	2.05	18 GA
KSQ-9	24.21	18.09	18.00	18 GA	23.65	1.65	16.37	18 GA	23.65	1.65	16.37	18 GA	20.71	1.65	2.05	18 GA
KSQ-12	28.95	21.25	21.17	18 GA	28.40	1.65	19.54	18 GA	28.40	1.65	19.54	18 GA	25.46	1.65	2.05	18 GA
KSQ-15	36.59	24.99	24.90	18 GA	36.02	1.65	23.27	18 GA	36.02	1.65	23.27	18 GA	33.09	1.65	2.05	18 GA
KSQ-16	38.72	27.00	26.92	18 GA	38.16	1.65	25.29	18 GA	38.16	1.65	25.29	18 GA	35.22	1.65	2.05	18 GA

	UNTEMPERED SUPPLY BOTTOM RAIL 2 (15)				UNTEMPERED SUPPLY BOTTOM PANEL CUTOUT (16)				UNTEMPERED SUPPLY OUTLET PANEL CUTOUT (17)			
	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL
KSQ-7	12.07	0.95	0.95	18 GA	14.21	11.57	2.25	18 GA	1.50	14.35	14.35	18 GA
KSQ-9	15.91	0.95	0.95	18 GA	16.21	15.31	2.50	18 GA	1.50	18.09	18.09	18 GA
KSQ-12	20.66	0.95	0.95	18 GA	19.71	18.47	2.50	18 GA	1.50	21.25	21.25	18 GA
KSQ-15	28.28	0.95	0.95	18 GA	24.21	22.21	2.50	18 GA	1.50	24.99	24.99	18 GA
KSQ-16	30.42	0.95	0.95	18 GA	25.21	24.22	2.50	18 GA	1.50	27.00	27.00	18 GA




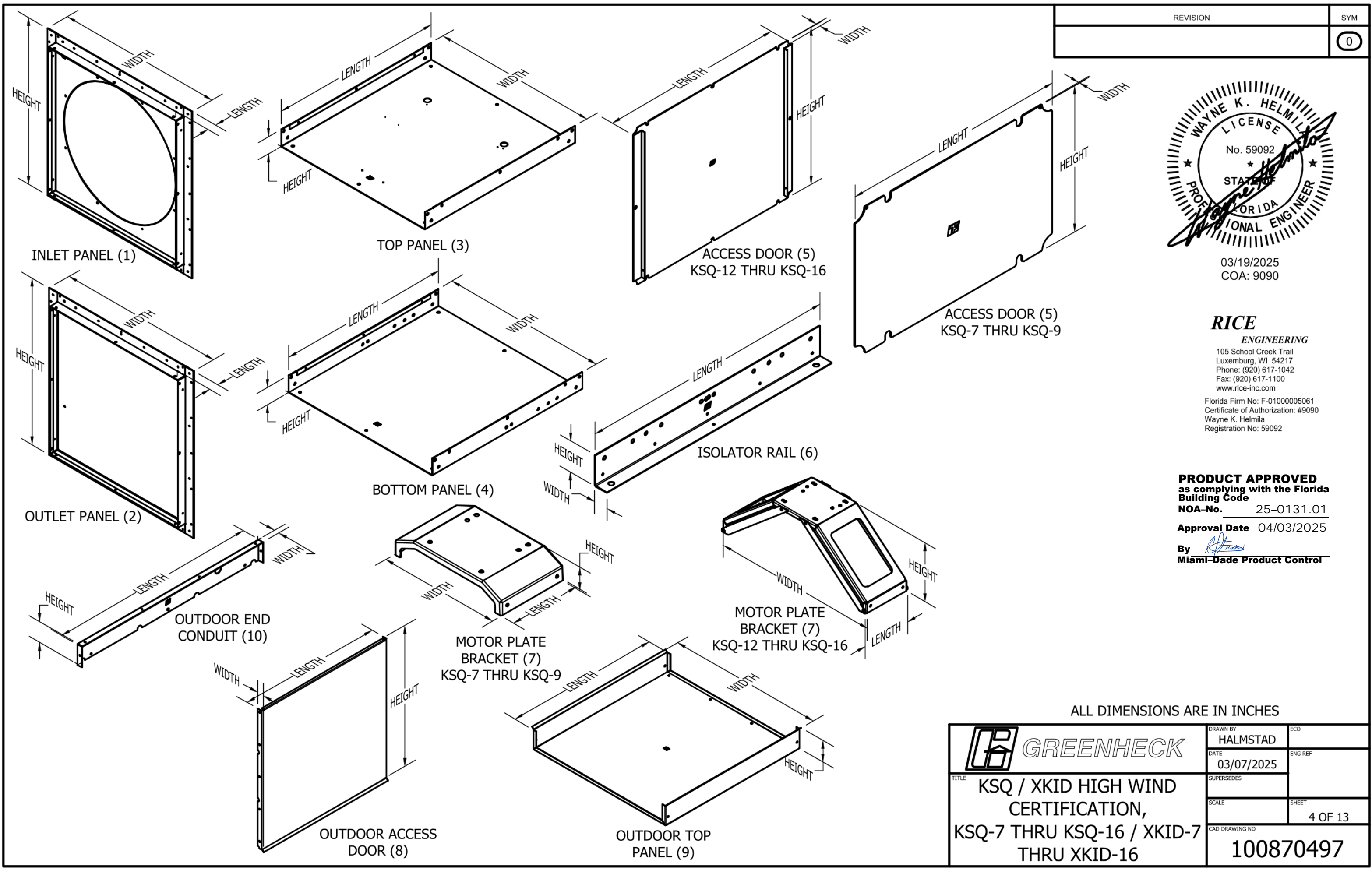
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 GREENHECK TITLE KSQ / XKID HIGH WIND CERTIFICATION, KSQ-7 THRU KSQ-16 / XKID-7 THRU XKID-16	DRAWN BY HALMSTAD	ECO
	DATE 03/07/2025	ENG REF
	SUPERSEDES	
	SCALE	SHEET 3 OF 13
	CAD DRAWING NO 100870497	



REVISION	SYM
	0



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By *[Signature]*
Miami-Dade Product Control

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TITLE
**KSQ / XKID HIGH WIND
CERTIFICATION,
KSQ-7 THRU KSQ-16 / XKID-7
THRU XKID-16**


DRAWN BY HALMSTAD	ECO
DATE 03/07/2025	ENG REF
SUPERSEDES	
SCALE	SHEET 4 OF 13
CAD DRAWING NO	100870497

REVISION	SYM
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	INLET PANEL (1)				OUTLET PANEL (2)				TOP PANEL (3)				BOTTOM PANEL (4)			
	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL
KSQ-7	1.50	14.35	14.35	18 GA	1.50	14.35	14.35	18 GA	14.21	11.57	2.25	18 GA	14.21	11.57	2.25	18 GA
KSQ-9	1.50	18.09	18.09	18 GA	1.50	18.09	18.09	18 GA	16.21	15.31	2.25	18 GA	16.21	15.31	2.25	18 GA
KSQ-12	1.50	21.25	21.25	18 GA	1.50	21.25	21.25	18 GA	19.71	18.47	2.25	18 GA	19.71	18.47	2.25	18 GA
KSQ-15	1.50	24.99	24.99	18 GA	1.50	24.99	24.99	18 GA	24.21	22.21	2.25	18 GA	24.21	22.21	2.25	18 GA
KSQ-16	1.50	27.00	27.00	18 GA	1.50	27.00	27.00	18 GA	25.21	24.22	2.25	18 GA	25.21	24.22	2.25	18 GA

	ACCESS DOOR (5)				ISOLATOR RAIL (6)				MOTOR PLATE BRACKET (7)				OUTDOOR ACCESS DOOR (8)			
	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL
KSQ-7	12.75	0.05	8.20	18 GA	14.21	1.39	3.00	14 GA	6.70	11.43	2.21	14 GA	14.72	1.14	12.43	18 GA
KSQ-9	14.75	0.05	11.44	18 GA	16.21	1.39	3.00	14 GA	6.70	15.16	4.08	14 GA	16.72	1.14	16.17	18 GA
KSQ-12	18.25	0.55	14.60	18 GA	19.71	1.39	3.00	14 GA	7.04	18.19	5.63	14 GA	20.22	1.14	19.33	18 GA
KSQ-15	22.75	0.55	18.34	18 GA	24.21	1.39	3.00	14 GA	7.04	21.93	7.49	14 GA	24.72	1.14	23.07	18 GA
KSQ-16	23.75	0.55	20.35	18 GA	25.21	1.39	3.00	14 GA	7.04	23.94	8.50	14 GA	25.72	1.14	25.08	18 GA

	OUTDOOR TOP PANEL (9)				OUTDOOR END CONDUIT (10)			
	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL
KSQ-7	16.60	15.25	3.89	18 GA	14.48	0.69	2.70	18 GA
KSQ-9	18.60	18.99	3.89	18 GA	18.21	0.69	2.70	18 GA
KSQ-12	22.10	22.15	3.89	18 GA	21.38	0.69	2.70	18 GA
KSQ-15	26.60	25.89	3.89	18 GA	25.11	0.69	2.70	18 GA
KSQ-16	27.60	27.90	3.89	18 GA	27.13	0.69	2.70	18 GA


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03/19/2025
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 GREENHECK TITLE KSQ / XKID HIGH WIND CERTIFICATION, KSQ-7 THRU KSQ-16 / XKID-7 THRU XKID-16	DRAWN BY HALMSTAD	ECO
	DATE 03/07/2025	ENG REF
	SUPERSEDES	
	SCALE	SHEET 5 OF 13
	CAD DRAWING NO 100870497	

20

21

24

23

16

17

26

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18

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27

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12

NUT, U, .25-20, GR5, BLK
QTY. 4

BOLT HSF, .25-20 x .75, GR5, ZP
QTY. 2

SHLDR SCR, THMB
.25-20 x .75, ZP, TYPE A
QTY. 2

TRS, HH, .313-18 x .75,
MECH ZP, SEMI-GIMLET
QTY. XX

SMS, IHWH, #12-11 x .625,
ZP, TYP A, W/ EPDM
QTY. XX

LENGTH

WIDTH

HEIGHT

REVISION

SYM

0

	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	WEIGHT(LBS)	SMSFSRQTY	TRSFQRQTY	DESIGN PSF
KSQ-18	68.94	30.49	31.59	250	49	102	90
KSQ-20	75.48	33.08	34.18	280	49	106	90
KSQ-22	82.74	35.95	37.05	330	53	112	90
KSQ-24	91.44	39.40	40.50	410	62	112	90
KSQ-27	100.01	42.85	44.96	570	92	127	80
KSQ-30	110.17	46.88	48.99	740	92	131	80
KSQ-33	121.07	51.19	53.30	1000	104	134	80

ITEM	QTY	DESCRIPTION
1	1	INLET PANEL
2	1	OUTLET PANEL
3	1	TOP PANEL
4	1	BOTTOM PANEL
5	2	ACCESS DOOR
6	2	ACCESS DOOR A
7	2	ACCESS DOOR B
8	2	CENTER CHANNEL
9	4	ISOLATOR RAIL
10	1	MOTOR PLATE
11	1	MOTOR PLATE SUPPORT
12	1	MOTOR BASE LEFT
13	1	MOTOR BASE RIGHT
14	2	MOTOR PLATE SUPPORT BRACKET
15	2	OUTDOOR ACCESS DOOR
16	2	OUTDOOR ACCESS DOOR A
17	2	OUTDOOR ACCESS DOOR B
18	2	OUTDOOR ACCESS MULLION
19	1	OUTDOOR TOP PANEL
20	1	OUTDOOR TOP RIGHT
21	1	OUTDOOR TOP LEFT
22	2	OUTDOOR END CONDUIT
23	1	UNTEMPERED SUPPLY TOP A
24	1	UNTEMPERED SUPPLY TOP B
25	1	UNTEMPERED SUPPLY SIDE LEFT
26	1	UNTEMPERED SUPPLY SIDE RIGHT
27	2	UNTEMPERED SUPPLY BOTTOM RAIL 1
28	2	UNTEMPERED SUPPLY BOTTOM RAIL 2
29	1	UNTEMPERED SUPPLY BOTTOM PANEL CUTOUT
30	1	UNTEMPERED SUPPLY OUTLET PANEL CUTOUT

NOTES:
1. MODEL KSQ HAS BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH MIAMI DADE TEST PROTOCOL TAS-201 (LARGE MISSILE IMPACT) AND TAS-202 (STATIC LOADING).
2. ROOF STRUCTURE MUST BE DESIGNED TO WITHSTAND THE WEIGHT AND LOADING TRANSMITTED BY ROOF FANS. FASTENERS SHALL BE AS SPECIFIED AND INSTALLED AS DETAILED.
3. DESIGN, TESTING, AND INSTALLATION CONFORMS TO FLORIDA BUILDING CODE.
4. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
5. THESE FANS HAVE NOT BEEN TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS-100(A)-95.
6. THIS APPROVAL IS FOR THE STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY, IT DOES NOT INCLUDE ANY INTERIOR MECHANISM OR ELECTRICAL COMPONENT.
7. DEPENDING ON FAN ORIENTATION, ITEM PAIRS 29 & 30 WOULD REPLACE ITEMS 4 & 2 RESPECTIVELY

GREENHECK

KSQ / XKID HIGH WIND CERTIFICATION, KSQ-18 THRU KSQ-33 / XKID-18 THRU XKID-33

DRAWN BY

HALMSTAD

DATE

03/07/2025

SUPERSEDES

SCALE

SHEET

6 OF 13

CAD DRAWING NO

100870497

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NOA-No. 25-0131.01
Approval Date 04/03/2025
By
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WAYNE K. HELMILA

LICENSE

No. 59092

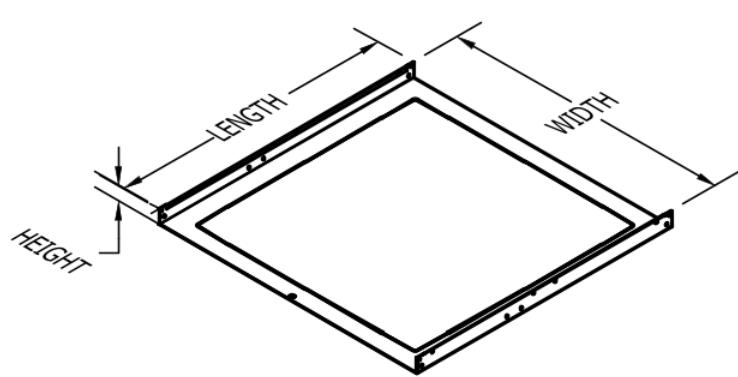
STATE OF FLORIDA

PROFESSIONAL ENGINEER

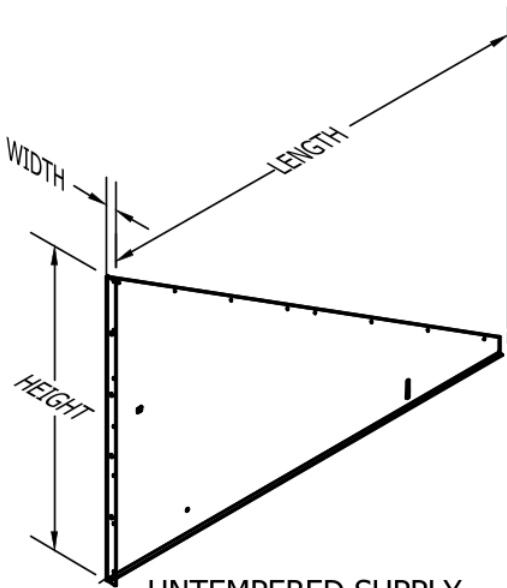
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COA: 9090

COMPLETE ISOMETRIC VIEW

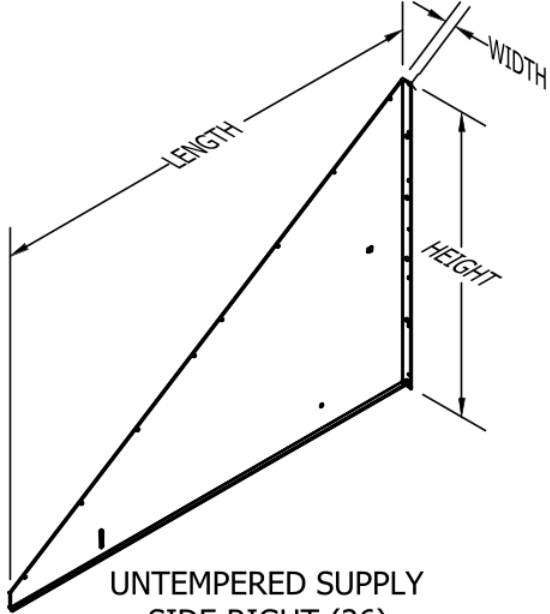
REVISION	SYM
	0



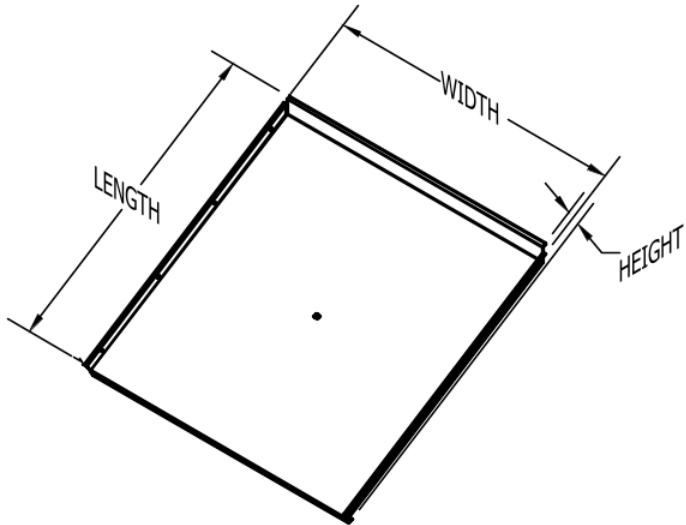
UNTEMPERED SUPPLY
BOTTOM PANEL CUTOUT
(29)



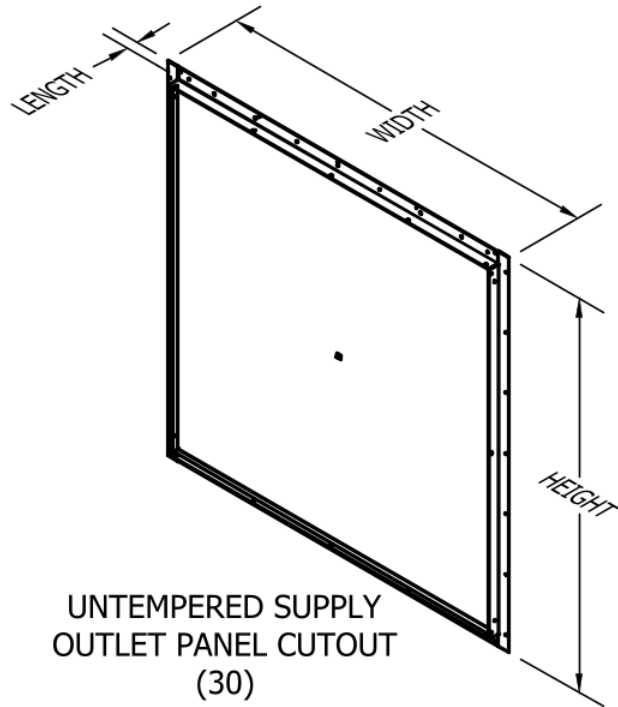
UNTEMPERED SUPPLY
SIDE LEFT (25)



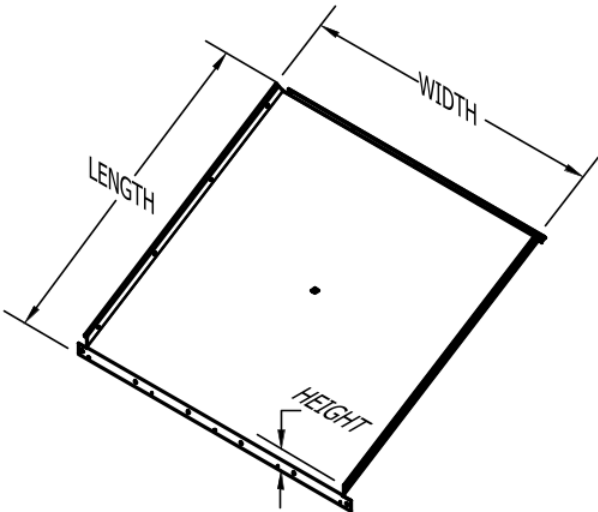
UNTEMPERED SUPPLY
SIDE RIGHT (26)



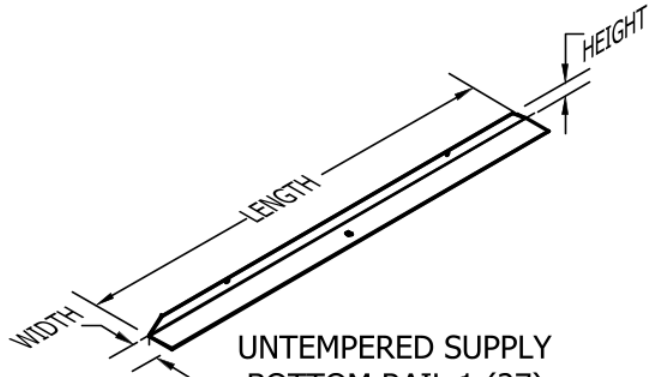
UNTEMPERED
SUPPLY TOP A (23)



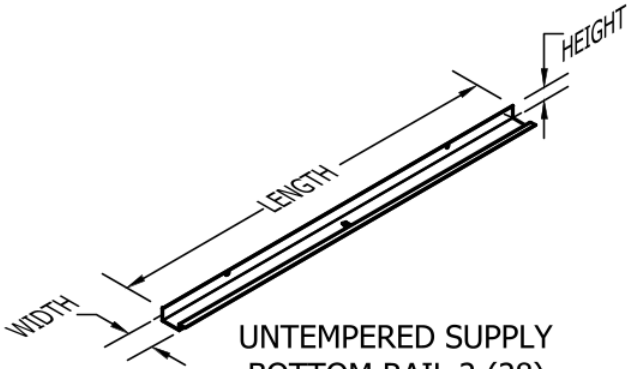
UNTEMPERED SUPPLY
OUTLET PANEL CUTOUT
(30)



UNTEMPERED
SUPPLY TOP B (24)



UNTEMPERED SUPPLY
BOTTOM RAIL 1 (27)



UNTEMPERED SUPPLY
BOTTOM RAIL 2 (28)


RICE
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Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092




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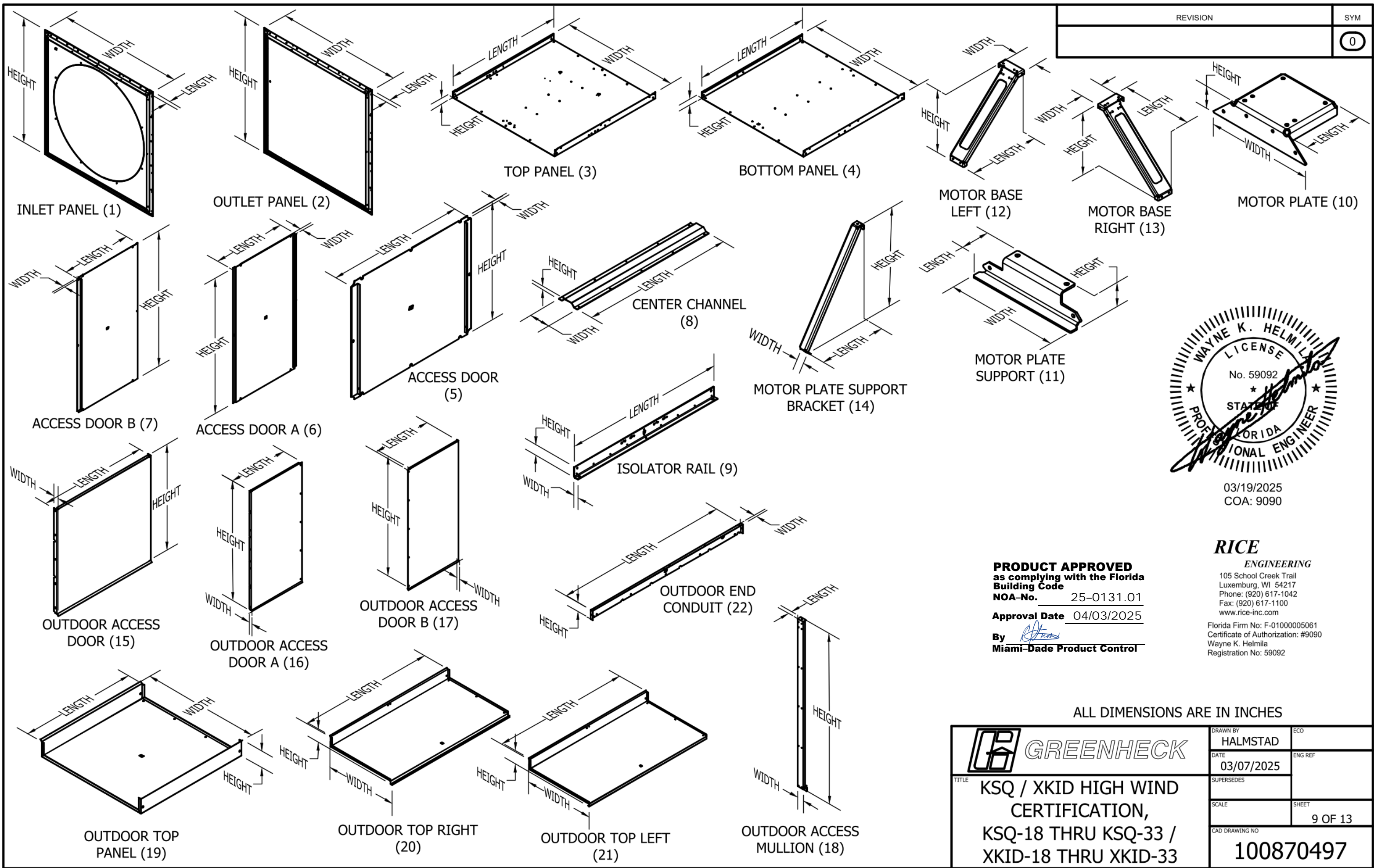
PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 25-0131.01
Approval Date 04/03/2025
By *[Signature]*
Miami-Dade Product Control

ALL DIMENSIONS ARE IN INCHES

 GREENHECK TITLE KSQ / XKID HIGH WIND CERTIFICATION, KSQ-18 THRU KSQ-33 / XKID-18 THRU XKID-33	DRAWN BY HALMSTAD	ECO
	DATE 03/07/2025	ENG REF
	SUPERSEDES	
	SCALE	SHEET 7 OF 13
CAD DRAWING NO 100870497		

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 GREENHECK	DRAWN BY	ECD
	HALMSTAD	
	DATE	ENG REF
	03/07/2025	
TITLE KSQ / XKID HIGH WIND CERTIFICATION, KSQ-18 THRU KSQ-33 / XKID-18 THRU XKID-33	SUPERSEDES	
	SCALE	SHEET
		8 OF 13
CAD DRAWING NO		100870497




REVISION	SYM
	0

	INLET PANEL (1)				OUTLET PANEL (2)				TOP PANEL (3)				BOTTOM PANEL (4)			
	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL
KSQ-18	1.50	29.59	29.59	18 GA	1.50	29.59	29.59	18 GA	26.29	26.81	2.25	18 GA	26.29	26.81	2.25	18 GA
KSQ-20	1.50	32.18	32.18	18 GA	1.50	32.18	32.18	18 GA	28.88	29.40	2.25	18 GA	28.88	29.40	2.25	18 GA
KSQ-22	1.50	35.05	35.05	18 GA	1.50	35.05	35.05	18 GA	31.76	32.27	2.25	18 GA	31.76	32.27	2.25	18 GA
KSQ-24	1.50	38.50	38.50	18 GA	1.50	38.50	38.50	18 GA	35.21	35.72	2.25	18 GA	35.21	35.72	2.25	18 GA
KSQ-27	1.50	41.95	41.95	14 GA	1.50	41.95	41.95	14 GA	38.51	39.22	2.25	14 GA	38.51	39.22	2.25	14 GA
KSQ-30	1.50	45.98	45.98	14 GA	1.50	45.98	45.98	14 GA	42.54	43.24	2.25	14 GA	42.54	43.24	2.25	14 GA
KSQ-33	1.50	50.29	50.29	14 GA	1.50	50.29	50.29	14 GA	46.85	47.55	2.25	14 GA	46.85	47.55	2.25	14 GA

	ACCESS DOOR (5)				ACCESS DOOR A (6)				ACCESS DOOR B (7)				CENTER CHANNEL (8)			
	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL
KSQ-18	24.84	0.55	22.94	18 GA	---	---	---	---	---	---	---	---	23.46	6.15	1.00	18 GA
KSQ-20	22.42	0.55	25.52	18 GA	---	---	---	---	---	---	---	---	26.05	6.15	1.00	18 GA
KSQ-22	---	---	---	---	15.79	0.70	28.40	18 GA	15.13	0.55	28.40	18 GA	28.93	6.15	1.00	18 GA
KSQ-24	---	---	---	---	17.52	0.70	31.85	18 GA	16.86	0.55	31.85	18 GA	32.38	6.15	1.00	18 GA
KSQ-27	---	---	---	---	19.24	0.79	35.34	14 GA	18.58	0.57	35.34	14 GA	35.82	6.15	1.00	14 GA
KSQ-30	---	---	---	---	21.25	0.79	39.37	14 GA	20.60	0.57	39.37	14 GA	39.85	6.15	1.00	14 GA
KSQ-33	---	---	---	---	23.41	0.79	43.68	14 GA	22.75	0.57	43.68	14 GA	44.16	6.15	1.00	14 GA

	ISOLATOR RAIL (9)				MOTOR PLATE (10)				MOTOR PLATE SUPPORT (11)				MOTOR BASE LEFT (12)			
	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL	LENGTH(IN)	WIDTH(IN)	HEIGHT(IN)	GALV/GVNL
KSQ-18	26.29	1.39	3.00	12 GA	6.70	10.81	1.75	12 GA	2.43	10.02	1.65	12 GA	12.21	6.94	9.79	12 GA
KSQ-20	28.88	1.39	3.00	12 GA	6.70	10.75	1.75	12 GA	2.43	9.97	1.65	12 GA	13.51	6.94	11.09	12 GA
KSQ-22	31.76	1.39	3.00	10 GA	6.70	12.34	2.50	10 GA	2.79	11.16	2.37	10 GA	14.94	6.94	12.53	10 GA
KSQ-24	35.21	1.39	3.00	10 GA	6.70	12.27	2.50	10 GA	2.79	11.10	2.37	10 GA	16.67	6.94	14.25	10 GA
KSQ-27	38.51	1.39	3.00	8 GA	6.70	12.11	2.50	8 GA	2.75	10.96	2.33	8 GA	18.39	6.94	15.98	8 GA
KSQ-30	42.54	1.39	3.00	8 GA	6.70	12.06	2.50	8 GA	2.75	10.92	2.33	8 GA	20.41	6.94	17.99	8 GA
KSQ-33	46.85	1.39	3.00	8 GA	6.70	12.02	2.50	8 GA	2.75	10.89	2.33	8 GA	22.56	6.94	20.14	8 GA


PRODUCT APPROVED
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NOA-No. 25-0131.01
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By 
Miami-Dade Product Control

RICE
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Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092



03/19/2025
COA: 9090

ALL DIMENSIONS ARE IN INCHES


 GREENHECK KSQ / XKID HIGH WIND CERTIFICATION, KSQ-18 THRU KSQ-33 / XKID-18 THRU XKID-33	DRAWN BY HALMSTAD	ECO
	DATE 03/07/2025	ENG REF
	SUPERSEDES	
	SCALE	SHEET 10 OF 13
CAD DRAWING NO 100870497		

REVISION	SYM
	0

	MOTOR BASE RIGHT (13)				MOTOR PLATE SUPPORT BRACKET (14)				OUTDOOR ACCESS DOOR (15)				OUTDOOR ACCESS DOOR A (16)			
	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL
KSQ-18	12.21	6.94	9.79	12 GA	9.30	2.10	17.85	12 GA	26.81	1.14	27.67	18 GA	---	---	---	---
KSQ-20	13.51	6.94	11.09	12 GA	10.59	2.10	19.28	12 GA	29.40	1.14	30.26	18 GA	---	---	---	---
KSQ-22	14.94	6.94	12.53	10 GA	11.97	2.13	20.86	10 GA	32.27	1.14	33.13	18 GA	---	---	---	---
KSQ-24	16.67	6.94	14.25	10 GA	13.69	2.13	22.76	10 GA	35.72	1.14	36.58	18 GA	---	---	---	---
KSQ-27	18.39	6.94	15.98	8 GA	15.33	2.17	24.66	8 GA	---	---	---	---	19.59	1.14	40.03	18 GA
KSQ-30	20.41	6.94	17.99	8 GA	17.34	2.17	26.87	8 GA	---	---	---	---	21.60	1.14	44.06	18 GA
KSQ-33	22.56	6.94	20.14	8 GA	19.50	2.17	29.26	8 GA	---	---	---	---	23.67	1.14	48.37	18 GA

	OUTDOOR ACCESS DOOR B (17)				OUTDOOR ACCESS MULLON (18)				OUTDOOR TOP PANEL (19)				OUTDOOR TOP RIGHT (20)			
	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL
KSQ-18	---	---	---	---	---	---	---	---	28.69	30.49	3.89	18 GA	---	---	---	---
KSQ-20	---	---	---	---	---	---	---	---	31.27	33.08	3.89	18 GA	---	---	---	---
KSQ-22	---	---	---	---	---	---	---	---	34.15	35.95	3.89	18 GA	---	---	---	---
KSQ-24	---	---	---	---	---	---	---	---	37.60	39.40	3.89	18 GA	---	---	---	---
KSQ-27	19.59	1.14	40.03	18 GA	1.00	2.00	41.49	18 GA	---	---	---	---	41.05	22.16	4.89	18 GA
KSQ-30	21.60	1.14	44.06	18 GA	1.00	2.00	45.52	18 GA	---	---	---	---	45.07	24.17	4.89	18 GA
KSQ-33	23.67	1.14	48.37	18 GA	1.00	2.00	49.83	18 GA	---	---	---	---	49.39	26.33	4.89	18 GA

	OUTDOOR TOP LEFT (21)				OUTDOOR END CONDUIT (22)			
	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	GALV/GVNL
KSQ-18	---	---	---	---	29.71	0.69	2.70	18 GA
KSQ-20	---	---	---	---	32.30	0.69	2.70	18 GA
KSQ-22	---	---	---	---	35.18	0.69	2.70	18 GA
KSQ-24	---	---	---	---	38.63	0.69	2.70	18 GA
KSQ-27	41.05	21.43	4.84	18 GA	42.08	0.69	2.70	18 GA
KSQ-30	45.07	23.44	4.84	18 GA	46.10	0.69	2.70	18 GA
KSQ-33	49.39	25.59	4.84	18 GA	50.41	0.69	2.70	18 GA


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NOA-No. 25-0131.01
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By 
Miami-Dade Product Control

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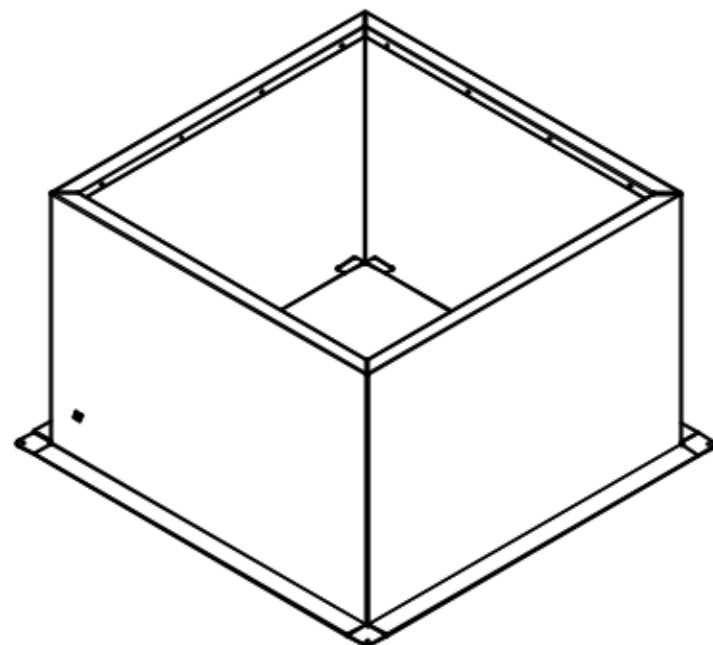
ALL DIMENSIONS ARE IN INCHES

 GREENHECK TITLE KSQ / XKID HIGH WIND CERTIFICATION, KSQ-18 THRU KSQ-33 / XKID-18 THRU XKID-33	DRAWN BY HALMSTAD	ECO
	DATE 03/07/2025	ENG REF
	SUPERSEDES	
	SCALE	SHEET 11 OF 13
	CAD DRAWING NO 100870497	

90 PSF RATING	KSQ / XKID ON CURB	CONCRETE DECK ANCHORING		STEEL ANCHORING		TIMBER ANCHORING		THRU-BOLT ANCHORING	
		MINIMUM ANCHORS PER SIDE	MINIMUM TOTAL ANCHORS	MINIMUM ANCHORS PER SIDE	MINIMUM TOTAL ANCHORS	MINIMUM ANCHORS PER SIDE	MINIMUM TOTAL ANCHORS	MINIMUM ANCHORS PER SIDE	MINIMUM TOTAL ANCHORS
	KSQ-7	3	8	5	16	4	12	3	8
	KSQ-9	4	12	6	20	5	16	3	8
	KSQ-12	4	12	7	24	5	16	4	12
	KSQ-15	4	12	8	28	6	20	4	12
	KSQ-16	5	16	8	28	6	20	4	12
	KSQ-18	5	16	9	32	6	20	5	16
	KSQ-20	5	16	10	36	7	24	5	16
	KSQ-22	6	20	10	36	7	24	5	16
	KSQ-24	6	20	11	40	8	28	6	20

80 PSF RATING	KSQ / XKID ON CURB	CONCRETE DECK ANCHORING		STEEL ANCHORING		TIMBER ANCHORING		THRU-BOLT ANCHORING	
		MINIMUM ANCHORS PER SIDE	MINIMUM TOTAL ANCHORS	MINIMUM ANCHORS PER SIDE	MINIMUM TOTAL ANCHORS	MINIMUM ANCHORS PER SIDE	MINIMUM TOTAL ANCHORS	MINIMUM ANCHORS PER SIDE	MINIMUM TOTAL ANCHORS
	KSQ-27	6	20	11	40	8	28	5	16
	KSQ-30	6	20	12	44	8	28	6	20
	KSQ-33	6	20	13	48	9	32	6	20

NOTE: ALL FASTENER QUANTITIES INCLUDE CORNER FASTENERS



USE 18GA. STEEL CURB MAX 24"
TALL. (FY=25KSI)

RICE ENGINEERING

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03/19/2025
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NOA-No. 25-0131.01

Approval Date 04/03/2025

By *[Signature]*
Miami-Dade Product Control

ANCHORAGE INTO CONCRETE

USE 3/8" DIA. HILTI KWIK HUS-EZ ANCHORS (S.S. 316)

2-1/2" MIN. EMBEDMENT

2-1/2" MIN. EDGE DISTANCE

4" MIN. END DISTANCE

MIN. 4-3/4" THICK CONCRETE (F'C = 3000 PSI) (DESIGN BY OTHERS)

ADD 2" x 2" x 1/4" THICK GALV. STEEL (A36) PLATE WASHERS

AT EACH FASTENER. REFERENCE CHART FOR MINIMUM QUANTITY OF ANCHORS.

ANCHORAGE INTO STEEL

USE 5/16-18 FASTENERS S.S. SERIES 300 COND. CW

INTO 0.105" MIN. THICK STEEL FRAMING. (FY=36KSI) (DESIGN BY OTHERS)

ADD 2" x 2" x 1/4" THICK GALV. STEEL (A36) PLATE WASHERS

AT EACH FASTENER. REFERENCE CHART FOR MINIMUM QUANTITY OF ANCHORS.

ANCHORAGE INTO TIMBER

USE 1/2" DIA. LAG BOLT S.S. SERIES 300 COND. CW

WOOD FRAMING SG = 0.42 MIN. 4" MIN. THICK (DESIGN BY OTHERS)

3-1/4" MIN. PENETRATION

1-1/2" MIN. EDGE DISTANCE

4" MIN. END DISTANCE

ADD 2" x 2" x 1/4" THICK GALV. STEEL (A36) PLATE WASHERS

AT EACH FASTENER. REFERENCE CHART FOR MINIMUM QUANTITY OF ANCHORS.


THRU-BOLT ANCHORAGE

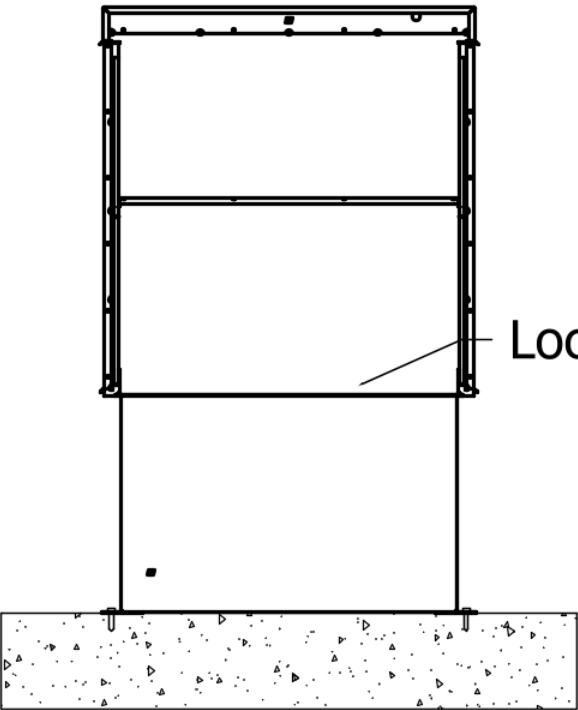
USE 1/2"-13 DIA. THRU-BOLTS S.S. SERIES 300 COND. CW

THROUGH STEEL FRAMING (FY=36KSI), WOOD FRAMING (SG = 0.42), OR CONCRETE (F'C = 3000 PSI) (DESIGN BY OTHERS)

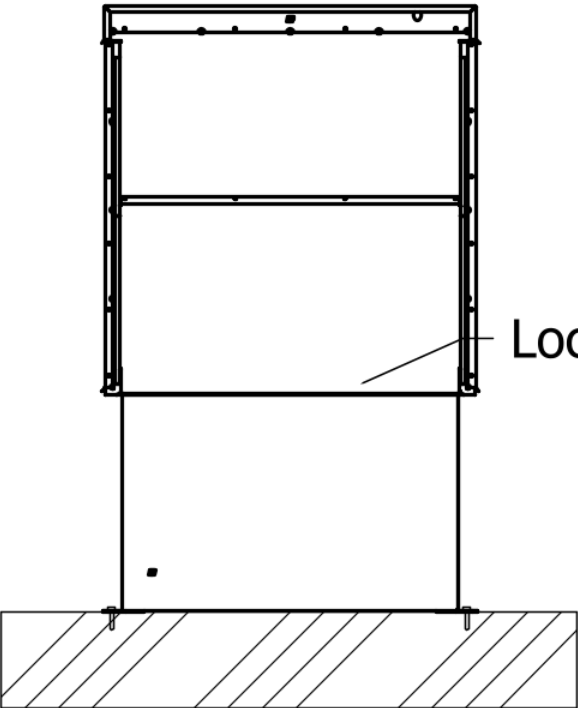
ADD 2" x 2" x 1/4" THICK GALV. STEEL (A36) PLATE WASHERS

AT EACH FASTENER. REFERENCE CHART FOR MINIMUM QUANTITY OF ANCHORS.

 GREENHECK TITLE KSQ / XKID, CURB FSR QTY, HIGH WIND	DRAWN BY HALMSTAD	ECO
	DATE 03/07/2025	ENG REF
	SUPERSEDES	
	SCALE	SHEET 12 OF 13
CAD DRAWING NO 100870497		



CONCRETE DECK ANCHORING

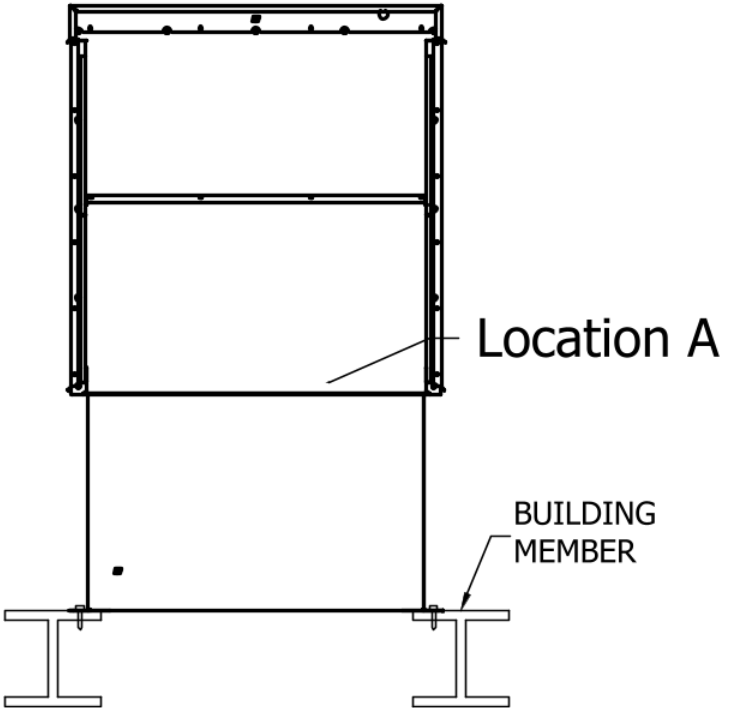
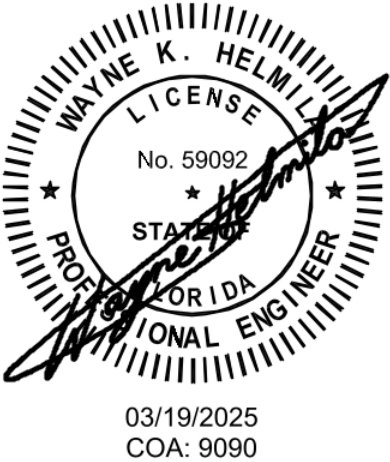


TIMBER ANCHORING

FAN TO CURB - LOCATION A

FAN	MIN FASTENERS PER END	MIN FASTENERS PER SIDE	MIN TOTAL FASTENERS
KSQ-7	5	4	18
KSQ-9	5	4	18
KSQ-12	5	4	18
KSQ-15	5	5	20
KSQ-16	7	5	24
KSQ-18	7	6	26
KSQ-20	7	6	26
KSQ-22	7	7	28
KSQ-24	9	7	32
KSQ-27	9	8	34
KSQ-30	9	8	34
KSQ-33	11	9	40

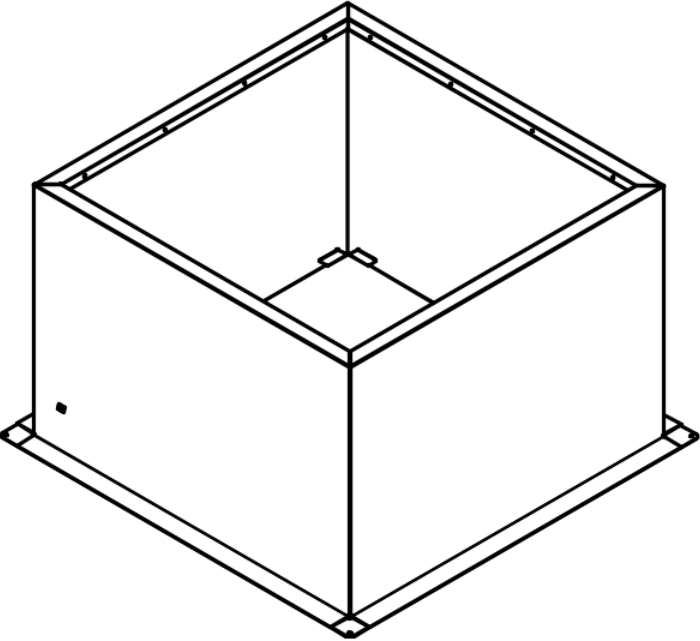
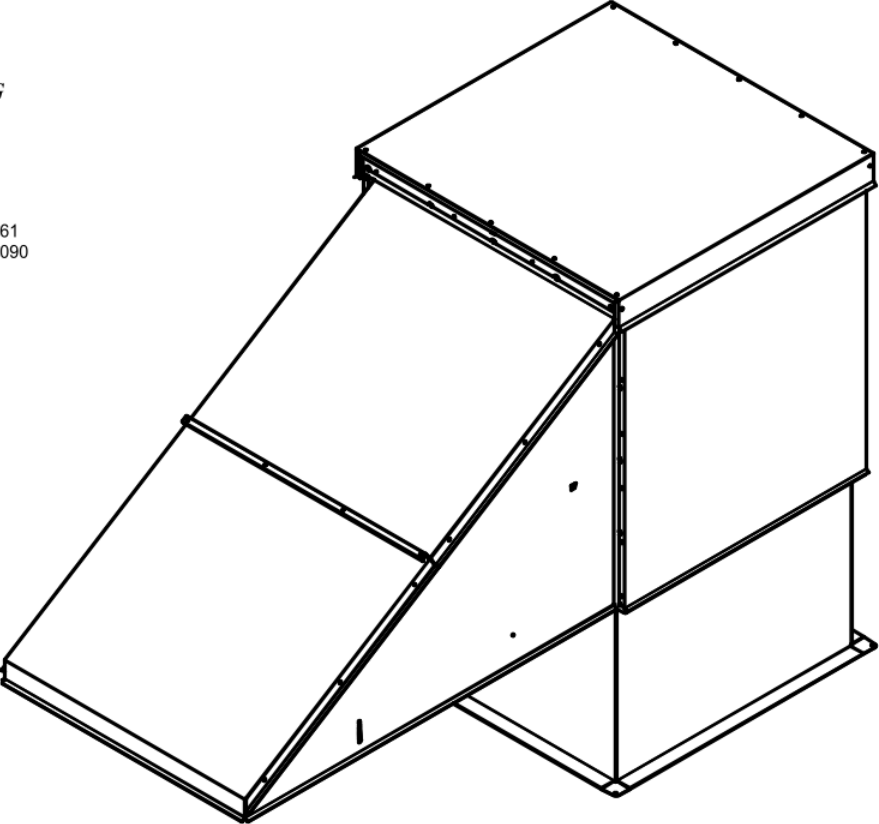
USE 5/16-18 FASTENERS (S.S. SERIES 300 COND. CW)
WITH WASHER. MINIMUM FASTENER COUNT PER SIDE OF UNIT REFERENCED IN
CHART. MINIMUM 18 GA. THICK STEEL CURB (FY = 25KSI)



STEEL ANCHORING - SELF DRILL/TAP FASTENERS

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By *[Signature]*
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	DRAWN BY	ECO
	DATE	ENG REF
	SUPERSEDES	
	SCALE	SHEET
KSQ / XKID, CURB INSTALL, HIGH WIND		13 OF 13
CAD DRAWING NO		100870497