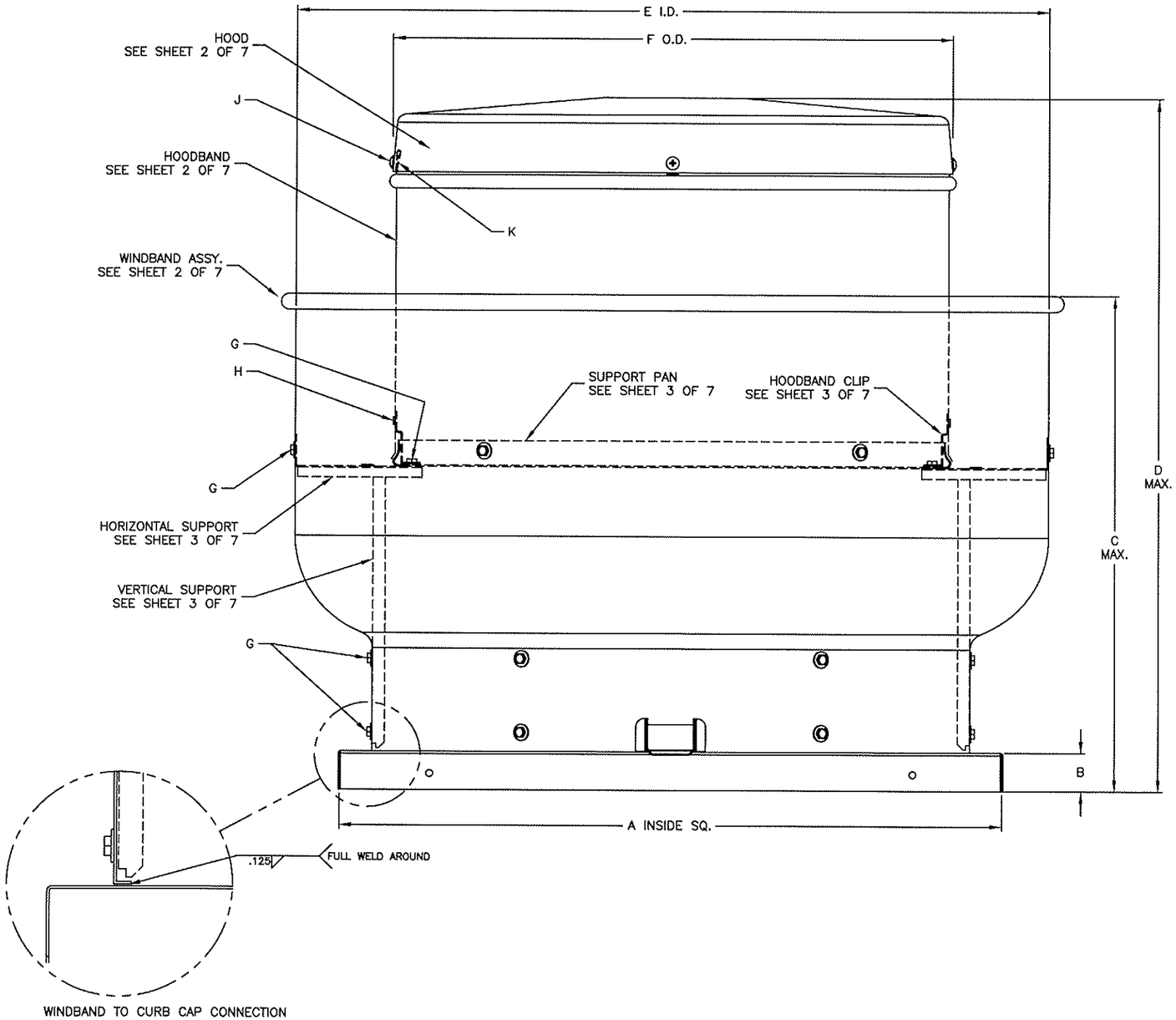
MODEL	FASTENER G		FASTENER H		FASTENER J		FASTENER K	
	QTY.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION
CUE/CW-060-065-070-075-080 085-090-095-098-099-101 121-131-141-161/HP	16 EA.	TCS ¼-20 X ¾ DACROMET COATED	4	RIVET, ¼ X 5/16 SEMI TUBULAR 5052 ALUM.	4	SCREW, ¼-20 X ⅝ 18-8/SS	4	PAL NUT, ¼-20 SPRING STEEL
CUE/CW-180/HP-200	24 EA.		6					
CUBE/CWB-098-099-101/HP 121-131-141/HP-161/HP/XP	16 EA.		4					
CUBE/CWB-180/HP-200/HP 220/HP-240/HP/XP-300/HP/XP	24 EA.		6					
S-CUBE-101/HP-121-131 141/HP-161/HP	16 EA.		4					
S-CUBE-200-240-300	24 EA.		6					

REVISION	BCR	BY	DATE	SYM
CREATE DWG.		DFY	06/02/2009	0
ADDED CUE/CUBE-099		SP1	05/19/2011	1
ADDED CW AND CWB UNITS		SP1	03/02/2012	2
REMOVED MAX WIND VELOCITY AND UPDATED NOTE NUMBER 7		SP1	03/15/2012	3
CORRECTED SPELLING ERRORS		SP1	06/14/2012	4

DESIGN LIMITS	
Max: Desigh Load:	±75 psf (3.6 Kpa)
Max: Overall Enclosure Dia.	48.31 in. (1227 mm)
Max: Overall Unit Height:	44.50 in. (1130 mm)



WINDBAND TO CURB CAP CONNECTION
TYP. ALL MODELS

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-098	19.00	1.75	19.50	27.00	23.63	14.38	53
CUE/CW-099	19.00	1.75	19.50	27.00	23.63	14.38	53
CUE/CW-101	19.00	1.75	19.50	27.00	23.63	18.63	53
CUE/CW-121	19.00	1.75	19.50	27.00	23.63	18.63	64
CUE/CW-131	19.00	1.75	19.50	27.00	23.63	18.63	64
CUE/CW-141/HP	22.00	1.75	20.35	32.20	27.70	21.00	90
CUE/CW-161/HP	22.00	1.75	20.35	32.20	27.70	21.00	90
CUE/CW-180/HP	30.00	1.75	22.72	31.57	34.20	25.20	142
CUE/CW-200	30.00	1.75	22.72	31.57	34.20	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-101/HP	19.00	1.75	19.50	27.00	23.63	18.63	58
CUBE/CWB-121	19.00	1.75	19.50	27.00	23.63	18.63	66
CUBE/CWB-131	19.00	1.75	19.50	27.00	23.63	18.63	66
CUBE/CWB-141/HP	22.00	1.75	20.35	32.20	27.70	21.00	84
CUBE/CWB-161/HP/XP	22.00	1.75	20.35	32.20	27.70	21.00	87
CUBE/CWB-180/HP	30.00	1.75	22.72	33.75	34.20	25.20	126
CUBE/CWB-200/HP	30.00	1.75	22.72	33.75	34.20	25.20	142
CUBE/CWB-220/HP	34.00	1.75	27.25	40.00	40.90	29.20	174
CUBE/CWB-240/HP/XP	34.00	1.75	27.25	40.00	40.90	29.20	175
CUBE/CWB-300/HP/XP	40.00	1.75	30.84	44.50	48.31	36.02	313
S-CUBE-101/HP	19.00	1.75	19.50	27.00	23.63	18.63	58
S-CUBE-121	19.00	1.75	19.50	27.00	23.63	18.63	66
S-CUBE-131	19.00	1.75	19.50	27.00	23.63	18.63	66
S-CUBE-141/HP	22.00	1.75	20.35	32.20	27.70	21.00	84
S-CUBE-161/HP	22.00	1.75	20.35	32.20	27.70	21.00	87
S-CUBE-200	30.00	1.75	22.72	33.75	34.20	25.20	142
S-CUBE-240	34.00	1.75	27.25	40.00	40.90	29.20	175
S-CUBE-300	40.00	1.75	30.84	44.50	48.31	36.02	313

NOTES:

1. 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.
2. DESIGN TESTING AND INSTALLATION CONFORMS TO AISC MANUAL OF STEEL CONSTRUCTION AND ALUMINUM DESIGN MANUAL.
3. FAN CURBS MUST BE ANCHORED TO ROOF FRAMING MEMBERS AND NOT TO THE ROOFING SYSTEM.
4. DESIGN, TESTING, AND INSTALLATION CONFORMS TO THE TEXAS REVISIONS TO THE 2006 INTERNATIONAL BUILDING CODE AND THE TEXAS REVISIONS TO THE 2006 INTERNATIONAL RESIDENTIAL CODE
5. THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.

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STATE OF TEXAS
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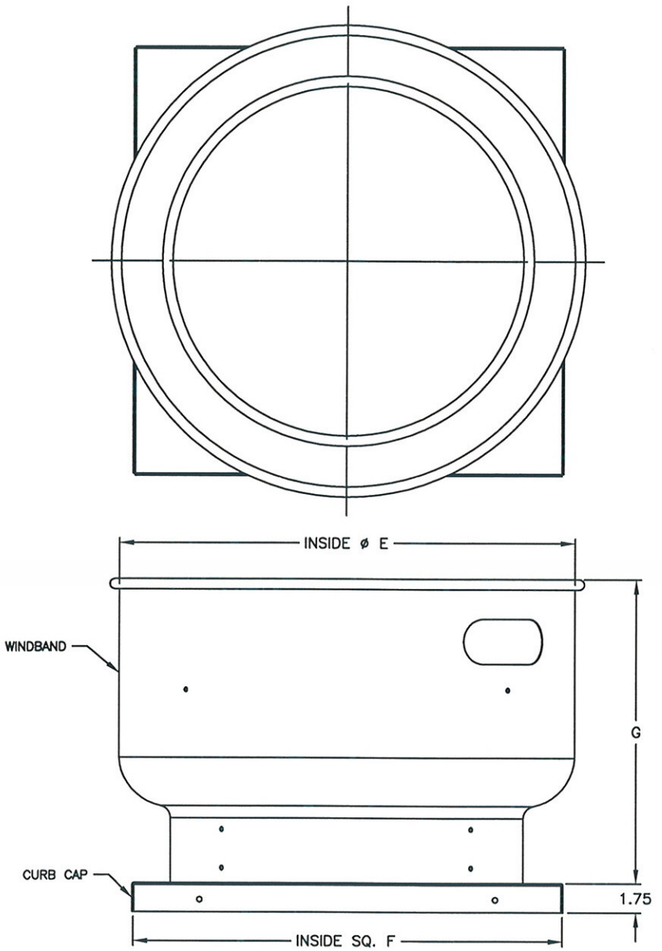
81248
REGISTERED
PROFESSIONAL ENGINEER

AUG 15 2012

GREENHECK
DRAWN BY: YAKLOVICH
DATE: 04/02/2009
SCALE: 1/3
CAD DRAWING NO. D
HSA3001

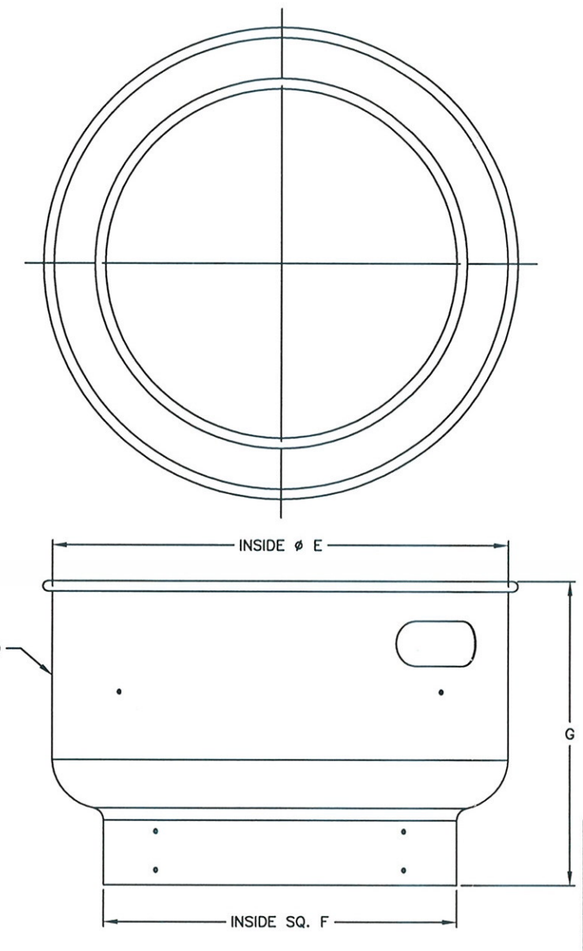
CUE/CUBE-060-300
SHEET 1 OF 8

REVISION	BCR	BY	DATE	SYM
CREATE DWG.		DFY	06/05/2009	0
ADDED CUE/CUBE-099		SP1	05/19/2011	1
ADDED CW AND CWB UNITS		SP1	03/05/2012	2



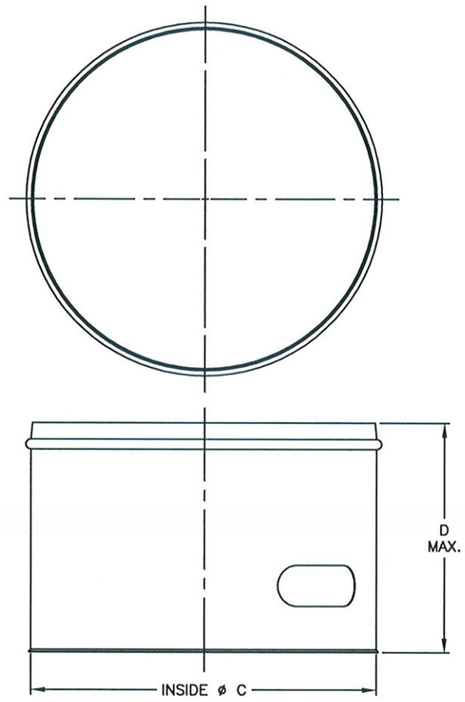
WINDBAND ASSY.
1 REQ'D. PER UNIT

MODEL	E	F	G	WINDBAND	CURB CAP
CUE-060-65-70-75	18.38	17.00	11.38	.051 ALUM. 1100-H12	.051 ALUM. 1100-H14
CUE-080-85-90	21.00	19.00	11.50	.051 ALUM. 1100-H12	.063 ALUM. 1100-H12
CUE-095	21.00	19.00	13.44	.051 ALUM. 1100-H12	.063 ALUM. 1100-H12
CUE-098-099-101-121-131	23.63	19.00	17.75	.051 ALUM. 1100-H12	.063 ALUM. 1100-H12
CUE-141/HP-161/HP	27.63	22.00	18.56	.051 ALUM. 1100-H12	.063 ALUM. 1100-H12
CUE-180/HP-200	34.13	30.00	20.97	.063 ALUM. 1100-H22	.063 ALUM. 1100-H14
CUBE-098-099-101/HP-121-131	23.63	19.00	17.75	.051 ALUM. 1100-H12	.063 ALUM. 1100-H12
CUBE-141/HP-161/HP/XP	27.63	22.00	17.75	.051 ALUM. 1100-H12	.063 ALUM. 1100-H12
CUBE-180/HP-200/HP	34.13	30.00	20.97	.063 ALUM. 1100-H22	.063 ALUM. 1100-H14
CUBE-220/HP-240/HP/XP	40.78	34.00	25.50	.063 ALUM. 1100-H22	.063 ALUM. 1100-H12
CUBE-300/HP/XP	48.16	40.00	29.09	.080 ALUM. 1100-H22	.063 ALUM. 1100-H12
S-CUBE-101/HP-121-131	23.63	19.00	17.75	.051 ALUM. 1100-H12	.063 ALUM. 1100-H12
S-CUBE-141/HP-161/HP	27.63	22.00	17.75	.051 ALUM. 1100-H12	.063 ALUM. 1100-H12
S-CUBE-200	34.13	30.00	20.97	.063 ALUM. 1100-H22	.063 ALUM. 1100-H14
S-CUBE-240	40.78	34.00	25.50	.063 ALUM. 1100-H22	.063 ALUM. 1100-H12
S-CUBE-300	48.16	40.00	29.09	.080 ALUM. 1100-H22	.063 ALUM. 1100-H12



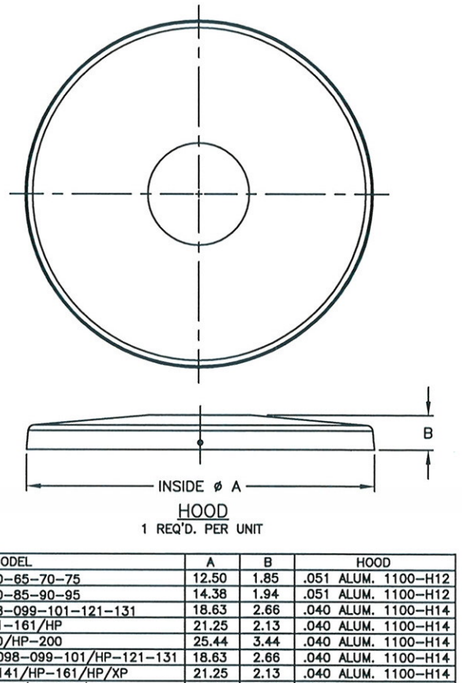
WINDBAND ASSY.
1 REQ'D. PER UNIT

MODEL	E	F	G	WINDBAND
CW-060-65-70-75	18.38	14.750	11.38	.051 ALUM. 1100-H12
CW-080-85-90	21.00	17.875	11.50	.051 ALUM. 1100-H12
CW-095	21.00	17.875	13.44	.051 ALUM. 1100-H12
CW-098-099-101-121-131	23.63	19.75	17.75	.051 ALUM. 1100-H12
CW-141/HP-161/HP	27.63	22.125	18.56	.051 ALUM. 1100-H12
CW-180/HP-200	34.13	27.750	20.97	.063 ALUM. 1100-H22
CWB-098-099-101/HP-121-131	23.63	19.75	17.75	.051 ALUM. 1100-H12
CWB-141/HP-161/HP/XP	27.63	22.125	17.75	.051 ALUM. 1100-H12
CWB-180/HP-200/HP	34.13	27.750	20.97	.063 ALUM. 1100-H22
CWB-220/HP-240/HP/XP	40.78	31.250	25.50	.063 ALUM. 1100-H22
CWB-300/HP/XP	48.16	38.375	29.09	.080 ALUM. 1100-H22



HOODBAND
1 REQ'D. PER UNIT

MODEL	C	D	HOOD
CUE/CW-060-65-70-75	12.41	5.47	.040 ALUM. 1100-H14
CUE/CW-080-85-90-95	14.29	5.47	.040 ALUM. 1100-H14
CUE/CW-098-099-101-121-131	18.43	12.00	.040 ALUM. 1100-H14
CUE/CW-141-161/HP	20.94	14.25	.040 ALUM. 1100-H14
CUE/CW-180/HP-200	25.13	14.25	.040 ALUM. 1100-H14
CUBE/CWB-098-099-101/HP-121-131	18.43	12.00	.040 ALUM. 1100-H14
CUBE/CWB-141/HP-161/HP/XP	20.94	14.25	.040 ALUM. 1100-H14
CUBE/CWB-180/HP-200/HP	25.13	18.00	.040 ALUM. 1100-H14
CUBE/CWB-220/HP-240/HP/XP	28.81	18.00	.040 ALUM. 1100-H14
CUBE/CWB-300/HP/XP	35.94	23.50	.051 ALUM. 1100-H14
S-CUBE-101/HP-121-131	18.43	12.00	.040 ALUM. 1100-H14
S-CUBE-141/HP-161/HP	20.94	14.25	.040 ALUM. 1100-H14
S-CUBE-200	25.13	18.00	.040 ALUM. 1100-H14
S-CUBE-240	28.81	18.00	.040 ALUM. 1100-H14
S-CUBE-300	35.94	23.50	.051 ALUM. 1100-H14



HOOD
1 REQ'D. PER UNIT

MODEL	A	B	HOOD
CUE/CW-060-65-70-75	12.50	1.85	.051 ALUM. 1100-H12
CUE/CW-080-85-90-95	14.38	1.94	.051 ALUM. 1100-H12
CUE/CW-098-099-101-121-131	18.63	2.66	.040 ALUM. 1100-H14
CUE/CW-141-161/HP	21.25	2.13	.040 ALUM. 1100-H14
CUE/CW-180/HP-200	25.44	3.44	.040 ALUM. 1100-H14
CUBE/CWB-098-099-101/HP-121-131	18.63	2.66	.040 ALUM. 1100-H14
CUBE/CWB-141/HP-161/HP/XP	21.25	2.13	.040 ALUM. 1100-H14
CUBE/CWB-180/HP-200/HP	25.44	3.44	.040 ALUM. 1100-H14
CUBE/CWB-220/HP-240/HP/XP	29.13	3.09	.051 ALUM. 1100-H14
CUBE/CWB-300/HP/XP	36.25	3.81	.051 ALUM. 1100-H14
S-CUBE-101/HP-121-131	18.63	2.66	.040 ALUM. 1100-H14
S-CUBE-141/HP-161/HP	21.25	2.13	.040 ALUM. 1100-H14
S-CUBE-200	25.44	3.44	.040 ALUM. 1100-H14
S-CUBE-240	29.13	3.09	.051 ALUM. 1100-H14
S-CUBE-300	36.25	3.81	.051 ALUM. 1100-H14

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STATE OF TEXAS
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PROFESSIONAL ENGINEER

SEP 0 4 2012

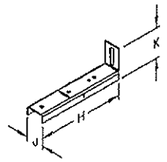
ALL DIMENSIONS ARE IN INCHES

GREENHECK
N3235 4th STREET, SHEBOYGAN FALLS, WISCONSIN 54476-0480

DRAWN BY	YAKLOVICH
DATE	05/26/2009
CHECKED	
SCALE	1/4.8
CAD DRAWING NO.	HSA3002
REV.	D

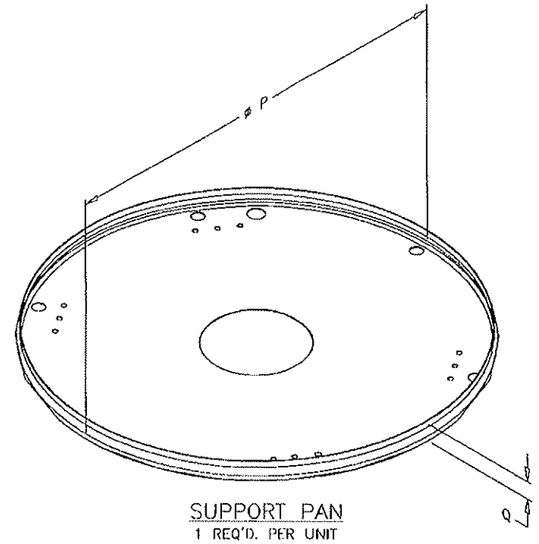
TITLE: CUE/CUBE-060-300
SHEET 2 OF 8

REVISION	ECR	BY	DATE	DWN
CREATE DWG.		DFY	06/03/2009	0
ADDED CUE/CUBE-099		SPI	03/19/2011	1
ADDED CW AND CWB UNITS		SPI	03/08/2012	2



HORIZONTAL SUPPORT

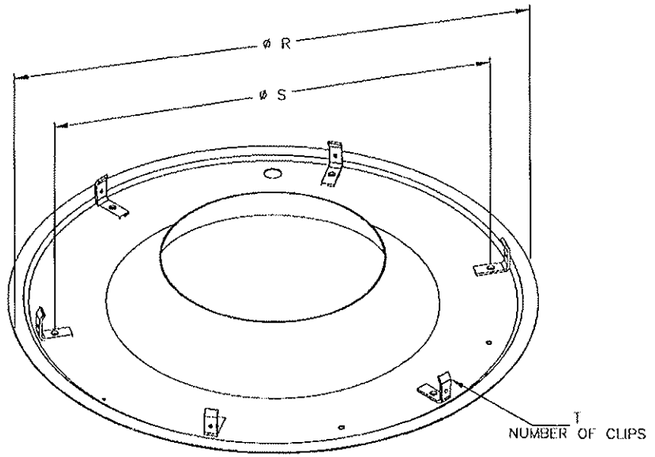
MODEL	H	J	K	QTY.	HORIZONTAL SUPPORT
CUE/CW-060-65-70-75	4.68	1.03	2.00	4	16 GA. GALV. G90
CUE/CW-080-85-90-95	4.68	1.03	2.00	4	16 GA. GALV. G90
CUE/CW-098-099-101-121-131	5.18	1.03	2.00	4	16 GA. GALV. G90
CUE/CW-141-161/HP	4.68	1.03	2.00	4	16 GA. GALV. G90
CUE/CW-180/HP-200	5.72	1.03	2.00	6	16 GA. GALV. G90
CUBE/CWB-098-099-101/HP-121-131	5.18	1.03	2.00	4	16 GA. GALV. G90
CUBE/CWB-141/HP-161/HP/XP	4.68	1.03	2.00	4	16 GA. GALV. G90
CUBE/CWB-180/HP-200/HP	5.72	1.03	2.00	6	16 GA. GALV. G90
CUBE/CWB-220/HP-240/HP/XP	7.25	1.03	2.00	6	16 GA. GALV. G90
CUBE/CWB-300/HP/XP	7.94	1.55	2.50	6	14 GA. GALV. G90
S-CUBE-101/HP-121-131	5.18	1.03	2.00	4	16 GA. GALV. G90
S-CUBE-141/HP-161/HP	4.68	1.03	2.00	4	16 GA. GALV. G90
S-CUBE-200	5.72	1.03	2.00	6	16 GA. GALV. G90
S-CUBE-240	7.25	1.03	2.00	6	16 GA. GALV. G90
S-CUBE-300	7.94	1.55	2.50	6	14 GA. GALV. G90



SUPPORT PAN

1 REQ'D. PER UNIT

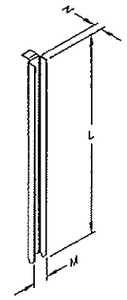
MODEL	P	Q	SUPPORT PAN
CUE/CWB-060-65-70-75	12.31	1.75	18 GA. GALV G90
CUE/CWB-080-85-90-95	14.19	1.94	18 GA. GALV G90
CUE/CWB-098-099	18.38	3.94	18 GA. GALV G90
CUE/CWB-101	18.38	3.19	18 GA. GALV G90
CUE/CWB-121	18.38	4.94	18 GA. GALV G90
CUE/CWB-131	18.38	4.44	18 GA. GALV G90
CUE/CWB-141-161/HP	20.88	2.41	20 GA. GALV G90
CUE/CWB-180/HP-200	25.06	3.48	20 GA. GALV G90
CUBE/CWB-098-099-101/HP-121-131	18.38	2.75	18 GA. GALV G90
CUBE/CWB-141/HP-161/HP/XP	20.88	1.50	20 GA. GALV G90
CUBE/CWB-180/HP-200/HP	25.06	1.19	20 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	16 GA. GALV G90
S-CUBE-101/HP-121-131	18.38	2.75	18 GA. GALV G90
S-CUBE-141/HP-161/HP	20.88	1.50	20 GA. GALV G90
S-CUBE-200	25.06	1.19	20 GA. GALV G90
S-CUBE-240	28.75	1.19	18 GA. GALV G90
S-CUBE-300	35.88	1.19	16 GA. GALV G90



MOUNTING PLATE

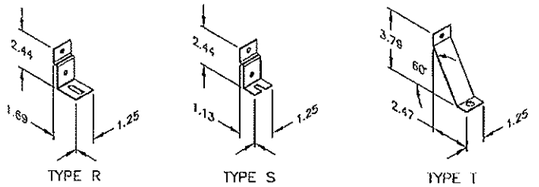
1 REQ'D. PER UNIT

MODEL	R	S	T	SUPPORT PAN
CW-060-65-70-75	14.750	11.750	4	18 GA. GALV G90
CW-080-85-90-95	17.875	15.000	4	18 GA. GALV G90
CW/CWB-098-099-101-121-131	19.750	16.875	4	18 GA. GALV G90
CW/CWB-141/HP-161/HP	22.125	19.375	4	18 GA. GALV G90
CW/CWB-180/HP-200	27.750	25.000	6	18 GA. GALV G90
CWB-220/HP-240/HP	31.250	28.375	6	18 GA. GALV G90
CWB-300/HP	38.375	35.844	6	18 GA. GALV G90



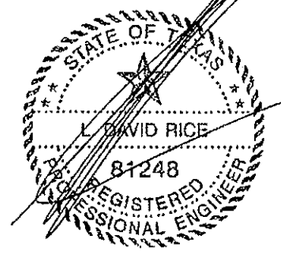
VERTICAL SUPPORT

MODEL	L	M	N	QTY.	VIRTICAL SUPPORT
CUE/CW-060-65-70-75-080-085-090	6.69	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-095	8.63	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-098-099-101-121-131	9.47	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-141-161	10.88	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-161HP	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
CUBE/CWB-098-099-101/HP-121-131	9.47	0.93	0.56	4	16 GA. GALV. G90
CUBE/CWB-141/HP-161/HP	10.88	0.93	0.56	4	16 GA. GALV. G90
CUBE/CWB-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-101/HP-121-131	9.47	0.93	0.56	4	16 GA. GALV. G90
S-CUBE-141/HP-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



HOODBAND CLIPS

MODEL	TYPE	QTY.	HOODBAND CLIP
CUE/CW-060-65-70-75	R	3	16 GA. GALV G90
CUE/CW-080-85-90-95	R	3	16 GA. GALV G90
CUE/CW-098-099-101-121-131	T	3	16 GA. GALV G90
CUE/CW-141/HP-161/HP	R	4	16 GA. GALV G90
CUE/CW-180/HP-200	S	6	16 GA. GALV G90
CUBE/CWB-098-099-101/HP-121-131	T	3	16 GA. GALV G90
CUBE/CWB-141/HP-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-101/HP-121-131	R	3	16 GA. GALV G90
S-CUBE-141/HP-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



JUN 14 2012

RICE ENGINEERING
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www.rice-inc.com

Texas Firm No: F-2183
L. David Rice
Registration No: 81248

ALL DIMENSIONS ARE IN INCHES

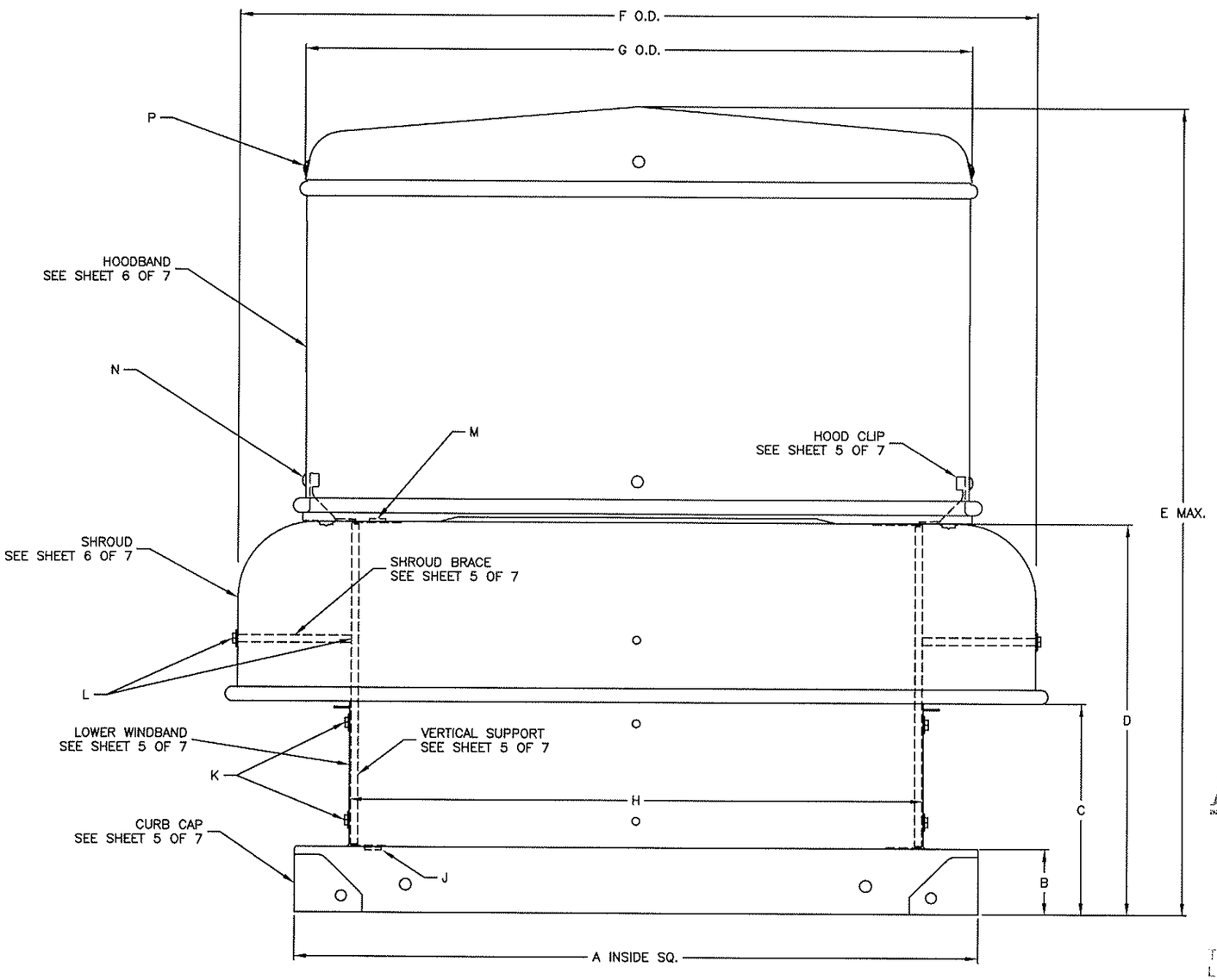
GREENHECK
P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410

DRAWN BY	ECO
YAKLOVICH	
DATE	SPEC REV.
05/26/2009	
SCALE	SHEET
NONE	1/4
JOB NUMBER	DRAWING NO.
CUE/CUBE-060-300 SHEET 3 OF 8	HSA3003

MODEL	FASTENER J		FASTENER K		FASTENER L		FASTENER M		FASTENER N		FASTENER P	
	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 1 DACROMET COATED	4	SCREW, 1/4-20 X 5/8 PTH 18-8 SS	—	SMS, #10 X 1/2 PTH 18-8 SS
G-101/HP-103/HP-121-123											4	
G-131-133-141/HP-143/HP	6		12		9		6		6		—	
G-150-160-163/HP-170											4	
G-180-183/HP-203			8		6		4		4		—	
GB-071-081-091-101/HP	4										4	
GB-121-131			12		9		6		6			
GB-141/HP-161/HP	6											
GB-180/HP-200/HP			12	TCS 1/4-20 X 3/4 DACROMET COATED								
GB-220/HP-240/HP												
GB-260-300/HP		TCS 1/4-20 X 3/4 DACROMET COATED										

REVISION	BCR	BY	DATE	SYM
CREATE DWG.		DFY	06/15/2009	0
ADDED G-097-098-099-103-123-133-143 163-183-203		SPI	05/25/2011	1
REMOVED MAX WIND VELOCITY AND UPDATED NOTE NUMBER 7		SPI	03/15/2012	2
CORRECTED SPELLING ERRORS		SPI	06/14/2012	3

DESIGN LIMITS	
Max: Desigh Load:	±75 psf (3.6 Kpa)
Max: Overall Enclosure Dia.	48.31 in. (1227 mm)
Max: Overall Unit Height:	44.50 in. (1130 mm)



ALL DIMENSIONS ARE IN INCHES

MODEL	A	B	C	D	E	F	G	H	WEIGHT LBS.
G-060	17.00	1.75	4.69	8.44	13.88	18.50	11.63	12.38	18
G-065	17.00	1.75	4.69	8.44	13.88	18.50	11.63	12.38	18
G-070	17.00	1.75	4.69	8.44	13.88	18.50	11.63	12.38	18
G-075	17.00	1.75	4.69	8.44	13.88	18.50	11.63	12.38	18
G-080	17.00	1.75	5.63	10.38	16.31	21.00	14.50	14.25	26
G-085	17.00	1.75	5.63	10.38	16.31	21.00	14.50	14.25	26
G-090	17.00	1.75	5.63	10.38	16.31	21.00	14.50	14.25	26
G-095	17.00	1.75	5.63	10.38	16.31	21.00	14.50	14.25	26
G-101	19.00	1.75	6.52	10.38	20.13	23.72	19.68	18.19	43
G-121	19.00	1.75	7.25	10.38	20.13	23.72	19.68	18.19	43
G-131	22.00	1.75	6.71	10.38	20.13	27.63	22.19	21.08	59
G-141	22.00	1.75	6.71	12.38	28.07	27.63	22.19	21.08	59
G-150	26.00	1.75	5.38	12.38	22.43	34.25	26.23	24.00	59
G-160	30.00	1.75	6.63	13.63	23.68	34.25	26.23	27.00	59
G-170	30.00	1.75	6.63	13.63	23.68	34.25	26.23	27.00	81
G-180	30.00	1.75	7.63	14.63	31.90	34.25	26.34	27.23	81
GB-071 : G-097	19.00	1.75	6.01	11.56	29.66	23.63	19.75	18.19	58
GB-081 : G-098	19.00	1.75	6.01	11.56	29.66	23.63	19.75	18.19	58
GB-091 : G-099	19.00	1.75	6.01	11.56	29.66	23.63	19.75	18.19	58
GB-101/HP : G-103/HP	19.00	1.75	6.01	11.56	29.66	23.63	19.75	18.19	63
GB-121 : G-123	19.00	1.75	6.01	11.56	29.66	23.63	19.75	18.19	66
GB-131 : G-133	19.00	1.75	6.01	11.63	29.66	27.63	19.75	18.19	67
GB-141/HP : G-143/HP	22.00	1.75	6.00	11.56	27.31	27.63	22.19	21.00	83
GB-161/HP : G-163/HP	22.00	1.75	6.00	11.56	27.31	27.63	22.19	21.00	89
GB-180/HP : G-183/HP	30.00	1.75	7.75	14.75	36.94	34.37	26.40	27.30	125
GB-200/HP : G-203	30.00	1.75	7.75	14.75	36.94	34.37	26.40	27.30	138
GB-220/HP	34.00	1.75	9.62	18.06	40.56	40.75	30.00	30.50	158
GB-240/HP	34.00	1.75	9.62	18.06	40.56	40.75	30.00	30.50	158
GB-260	40.00	1.75	11.64	19.77	45.16	46.20	35.94	36.00	305
GB-300/HP	40.00	1.75	11.64	19.77	45.16	46.20	35.94	36.00	320

NOTES:

1. 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.
2. DESIGN TESTING AND INSTALLATION CONFORMS TO AISC MANUAL OF STEEL CONSTRUCTION AND ALUMINUM DESIGN MANUAL.
3. FAN CURBS MUST BE ANCHORED TO ROOF FRAMING MEMBERS AND NOT TO THE ROOFING SYSTEM.
4. DESIGN, TESTING, AND INSTALLATION CONFORMS TO THE TEXAS REVISIONS TO THE 2006 INTERNATIONAL BUILDING CODE AND THE TEXAS REVISIONS TO THE 2006 INTERNATIONAL RESIDENTIAL CODE
5. THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.

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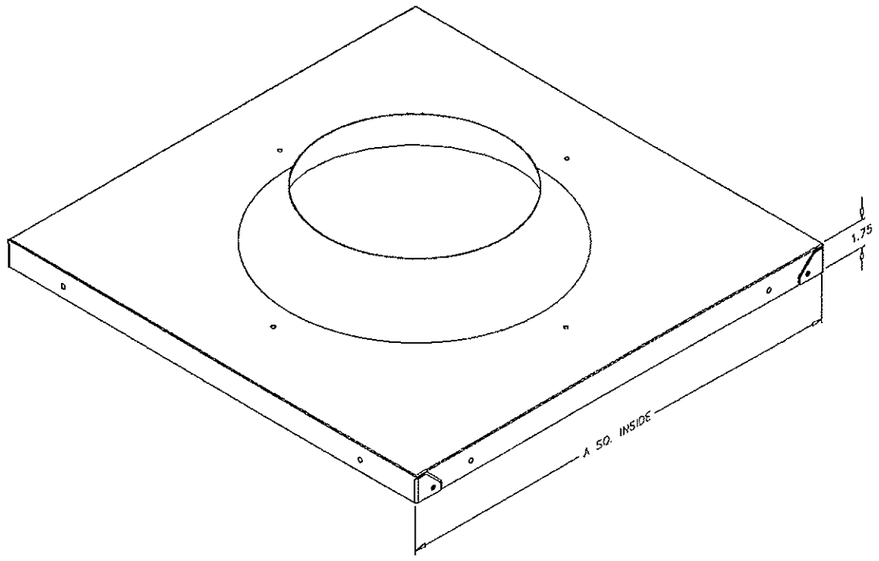
STATE OF TEXAS
L. DAVID RICE
81248
REGISTERED PROFESSIONAL ENGINEER

AUG 15 2012

GREENHECK
DRAWN BY: YAKLOVICH
DATE: 04/02/2009
SCALE: 1/3
TITLE: G/GB-060-300 SHEET 4 OF 8
DRAWING NO.: HSA3004

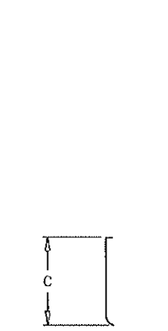
REVISION	SCR	BY	DATE	STH
CREATE DWG.		DFY	06/03/2009	0
ADDED G-097-098-099-103-123-133-143 163-183-203		SPI	03/25/2011	1



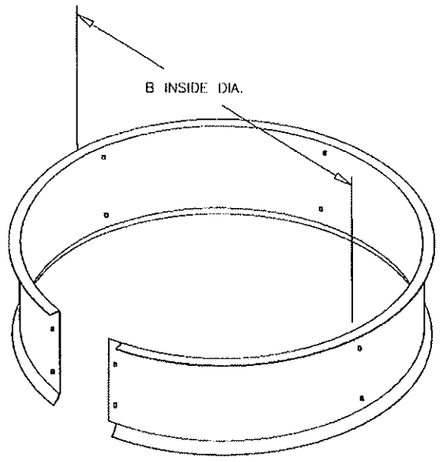
CURB CAP

1 REQ'D. PER UNIT

MODEL	A	CURB CAP
G-060-065-070-075-080-085-090-095	17.00	.051 ALUM. 1100-H14
G-101-121	19.00	.063 ALUM. 1100-H12
G-131-141	22.00	.063 ALUM. 1100-H12
G-150	26.00	.063 ALUM. 1100-H12
G-160-170-180	30.00	.063 ALUM. 1100-H14
GB-071-081-091 : G-097-098-099	19.00	.063 ALUM. 1100-H12
GB-101/HP-121-131 : G-103/HP-123-133	19.00	.063 ALUM. 1100-H12
GB-141/HP-161/HP : G-143/HP-163/HP	22.00	.063 ALUM. 1100-H12
GB-180/HP-200/HP : G-183/HP-203	30.00	.063 ALUM. 1100-H14
GB-220/HP-240/HP	34.00	.063 ALUM. 1100-H12
GB-260-300/HP	40.00	.063 ALUM. 1100-H12



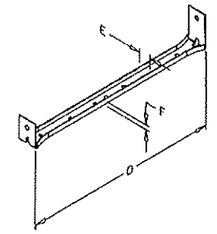
LOWER WINDBAND PROFILE



LOWER WINDBAND

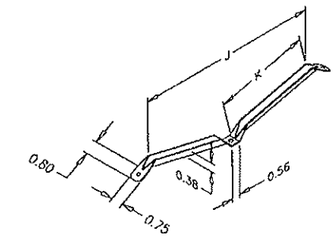
ALUM. - 2 REQ'D. PER UNIT
GALV. - 1 REQ'D. PER UNIT

MODEL	B	C	LOWER WINDBAND
G-060-065-070-075	12.38	3.31	.040 ALUM. 3105-H14 OR 18 GA. GALV. G90 OR EQUIVALENT
G-080-085-090-095	14.25	4.00	
G-101-121	18.19	5.06	
G-131-141	21.08	5.06	
G-150	24.00	4.00	
G-160-170	27.00	5.06	
G-180	27.30	5.875	
GB-071-081-091-101/HP-121-131 G-097-098-099-103/HP-123-133	18.34	4.00	
GB-141/HP : G-143/HP	21.41	4.00	
GB-161/HP : G-163/HP	21.41	5.88	
GB-180/HP-200/HP : G-183/HP-203	27.30	5.88	
GB-220/HP-240/HP	30.50	7.88	
GB-260-300/HP	36.00	9.38	



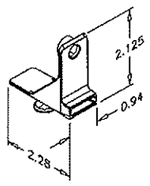
VERTICAL SUPPORT

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-101-121	10.63	0.87	0.43	4	16 GA. GALV. G90
G-131-141-150	10.63	0.87	0.43	6	16 GA. GALV. G90
G-160-170	11.88	0.87	0.43	6	16 GA. GALV. G90
G-180	12.88	0.87	0.43	6	16 GA. GALV. G90
GB-071-081-091-101/HP-121-131 G-097-098-099-103/HP-123-133	9.81	0.87	0.43	4	14 GA. GALV. G90
GB-141/HP : G-143/HP	9.81	0.87	0.43	6	14 GA. GALV. G90
GB-161/HP : G-163/HP	11.75	0.87	0.43	6	14 GA. GALV. G90
GB-180/HP-200/HP : G-183/HP-203	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



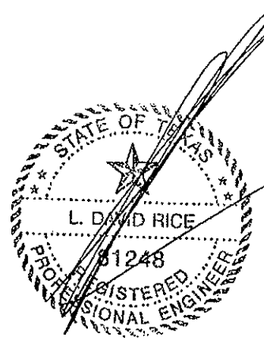
SHROUD BRACE

MODEL	J	K	QTY.	SHROUD BRACE
G-060-065-070-075-080-085-090 095-097-098-099-101/HP-121 123-133-143/HP-163/HP	——	——	0	——
G-131-141	13.12	6.43	3	18 GA. GALV. G90
G-150	16.44	8.47	3	18 GA. GALV. G90
G-160-170-180	16.44	8.07	3	18 GA. GALV. G90
GB-071	——	——	0	
GB-081-091-101-101/HP-121	11.12	5.39	2	18 GA. GALV. G90
GB-131	13.12	6.89	2	18 GA. GALV. G90
GB-141/HP-161HP	13.12	6.43	3	18 GA. GALV. G90
GB-180/HP-200/HP : G-183/HP-203	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



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-101-121	4	NYLON N1000 STL
G-131-141	4	NYLON N1000 STL
G-150-160-170	6	NYLON N1000 STL
G-180	6	NYLON N1000 STL
GB-071-081-091-101/HP-121-131 G-097-098-099-103/HP-123-133	4	NYLON N1000 STL
GB-141/HP-161/HP : G-143/HP-163/HP	4	NYLON N1000 STL
GB-180/HP-200/HP : G-183/HP-203	6	NYLON N1000 STL
GB-220/HP-240/HP	6	NYLON N1000 STL
GB-260-300/HP	6	NYLON N1000 STL



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ALL DIMENSIONS ARE IN INCHES

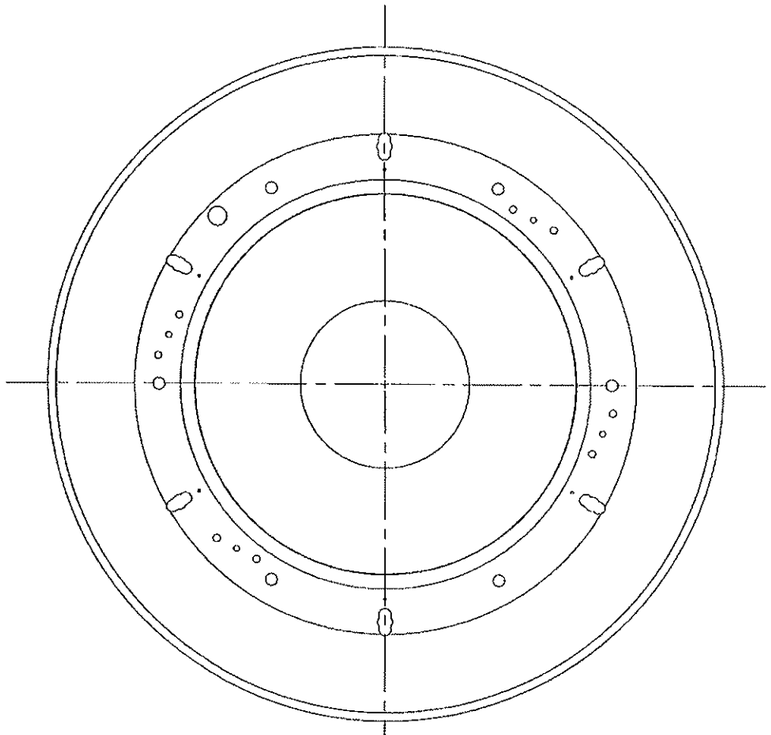
GREENHECK

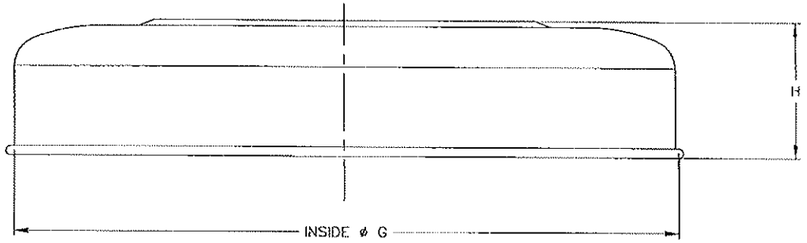
DRAWN BY: YAKLOVICH
DATE: 05/27/2009
SCALE: 1/4

G/GB-060-300
SHEET 5 OF 8

HSA3005

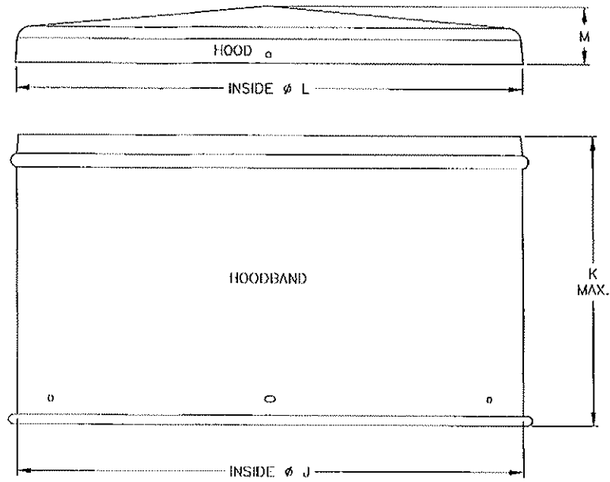
REVISION	DCR	BY	DATE	SYM
CREATE DWG.		DFY	06/02/2009	0
ADDED G-097-098-099-103-123-133-143 163-169-203		SP1	03/25/2011	1



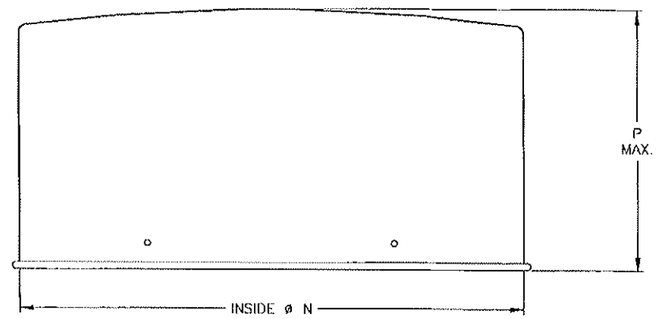


SHROUD
1 REQ'D. PER UNIT

MODEL	G	H	SHROUD
G-060-065-070-075	18.50	3.75	.051 ALUM. 1100-H14
G-080-085-090-095	21.00	4.75	.051 ALUM. 1100-H14
G-101-121	23.63	5.50	.051 ALUM. 1100-H14
G-131-141	27.63	5.94	.051 ALUM. 1100-H14
G-150-160-170-180	34.25	7.25	.063 ALUM. 1100-H14
GB-071-081-091-101/HP-121 G-097-098-099-103/HP-123	23.63	5.56	.051 ALUM. 1100-H14
GB-131 / G-133	27.63	6.06	.051 ALUM. 1100-H14
GB-141/HP-161/HP : G-143/HP-163/HP	27.63	5.88	.051 ALUM. 1100-H14
GB-180/HP-200/HP : G-183/HP-203	34.25	7.25	.063 ALUM. 1100-H14
GB-220/HP-240/HP	40.75	8.75	.063 ALUM. 1100-H14
GB-260-300/HP	46.00	8.75	.063 ALUM. 1100-H14



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



COVER
1 REQ'D. PER UNIT

MODEL	HOODBAND/HOOD J	K	L	M	HOODBAND	HOOD	COVER N	P	COVER
G-060-065-070-075	——	——	——	——	——	——	11.63	5.13	.040 ALUM. 1100-H14
G-080-085-090-095	——	——	——	——	——	——	14.50	5.63	.040 ALUM. 1100-H14
G-097-098-099-101-103-121-123-133	19.61	13.06	19.75	2.09	.040 ALUM. 1100-H14	.040 ALUM. 1100-H14	19.61	11.25	.040 ALUM. 3003-H0
G-131-141-143-163	22.15	13.44	22.25	2.75	.040 ALUM. 1100-H14	.040 ALUM. 1100-H14	22.18	8.75	.040 ALUM. 3003-H0
G-150-160-170	——	——	——	——	——	——	26.30	13.63	.040 ALUM. 3003-H0
G-180-183-203	26.36	14.94	26.44	2.94	.040 ALUM. 1100-H14	.040 ALUM. 1100-H14	26.36	13.63	.040 ALUM. 3003-H0
GB-071-081-091-101/HP-121-131	19.65	16.81	19.75	2.09	.040 ALUM. 1100-H14	.040 ALUM. 1100-H14	19.61	11.25	.040 ALUM. 3003-H0
GB-141/HP-161/HP	22.15	13.48	22.25	2.75	.040 ALUM. 1100-H14	.040 ALUM. 1100-H14	22.15	11.75	.040 ALUM. 3003-H0
GB-180/HP-200/HP	26.34	20.00	26.44	2.94	.040 ALUM. 1100-H14	.040 ALUM. 1100-H14	26.34	13.63	.040 ALUM. 3003-H0
GB-220/HP-240/HP	29.88	19.75	30.14	3.50	.040 ALUM. 1100-H14	.063 ALUM. 1100-H12	29.88	12.5	.040 ALUM. 3003-H0
GB-260-300/HP	35.94	23.25	36.25	3.81	.050 ALUM. 1100-H14	.050 ALUM. 1100-H14	——	——	——

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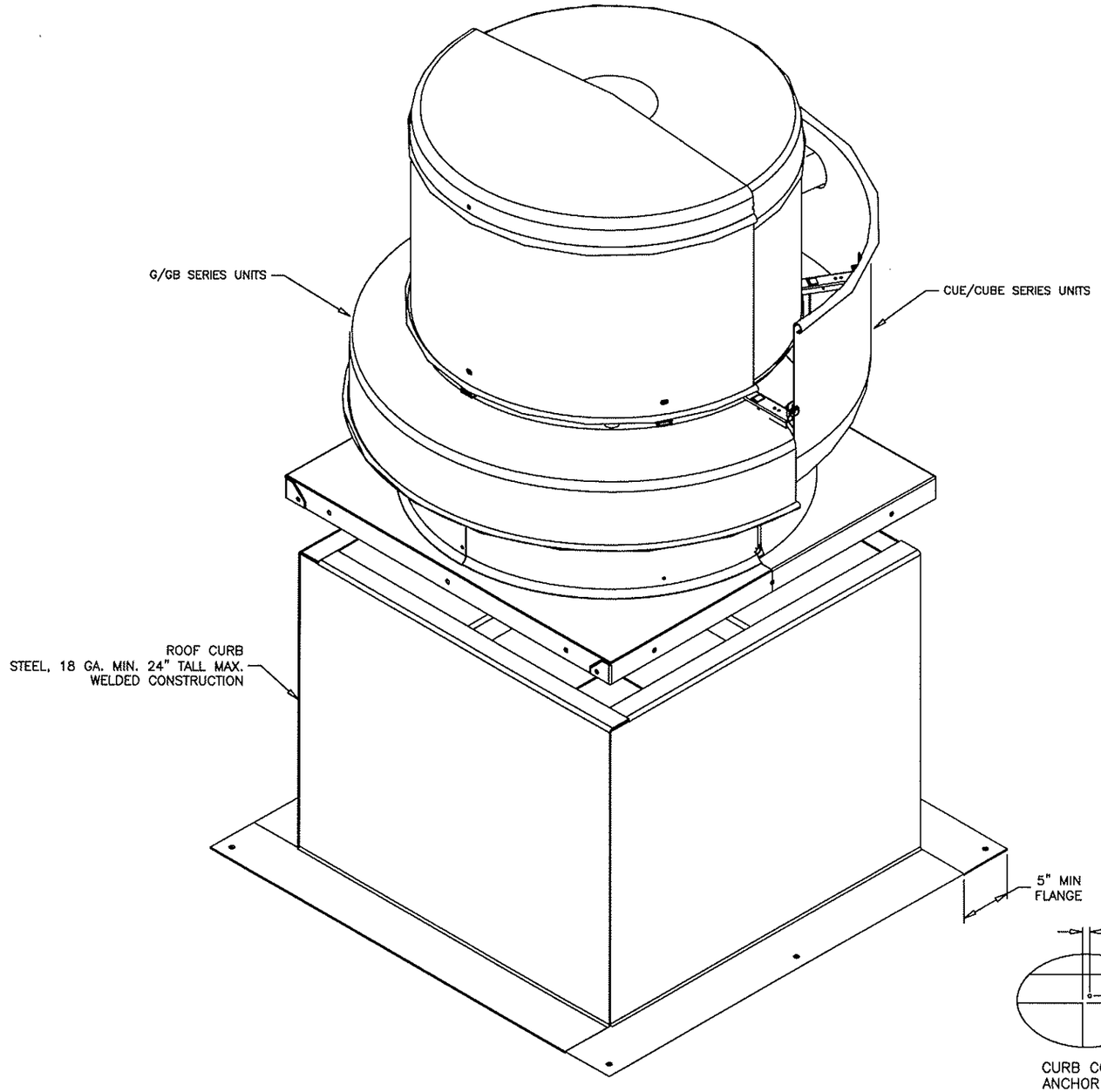
Registration No: 81248

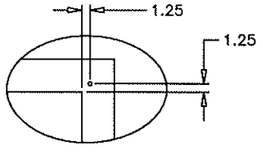
JUN 14 2012

ALL DIMENSIONS ARE IN INCHES

GREENHECK
DRAWN BY: YAKLOVICH
DATE: 05/29/2009
TITLE: G/GB-060-300 SHEET 6 OF 8
SCALE: 1/4
DRAWING NO.: HSA3006

REVISION	BCR	BY	DATE	SYM
CREATE DWG.		DFY	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





CURB CORNER
ANCHOR DETAIL

FAN TO CURB MOUNTING

UNIT SIZE	FASTENERS PER SIDE
CUE-060-065-070-075-080-085-090-095-098-099-101-121-131-141/HP-161/HP CUBE-098-099-101/HP-121-131-141/HP-161/HP/XP S-CUBE-141/HP-161/HP G-060-065-070-075-080-085-090-095-097-098-099-101-103-121-123-131-133 141-143-163 GB-071-081-091-101/HP-121-131-141/HP-161/HP	3
CUE-180/HP-200 CUBE-180/HP-200/HP-220/HP-240/HP/XP S-CUBE-200-240 G-150-160-170-180-183-203 GB-180/HP-200/HP-220/HP-240/HP	5
CUBE-300/HP/XP S-CUBE-300 GB-260-300/HP	9

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.

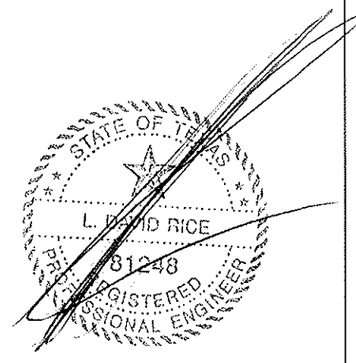
CURB TO DECK MOUNTING

UNIT SIZE	CONCRETE ANCHORING NO. OF FASTENERS PER SIDE	STEEL DECK ANCHORING NO. OF FASTENERS PER SIDE	TIMBER ANCHORING NO. OF FASTENERS PER SIDE
CUE/CUBE ≤ 161 G/GB ≤ 141	2	2	2
CUE/CUBE > 161 G/GB > 141	3	3	3

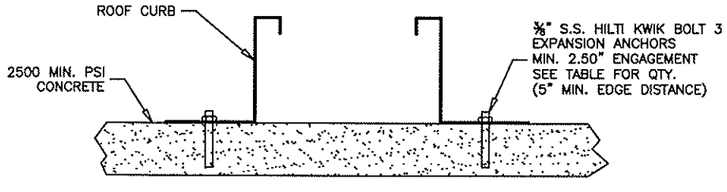
FASTENERS NEED TO BE LOCATED ON 2 OPPOSITE ENDS OF FAN CURB.

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: 920.845.1042
Fax: 920.845.1048
www.rice-inc.com

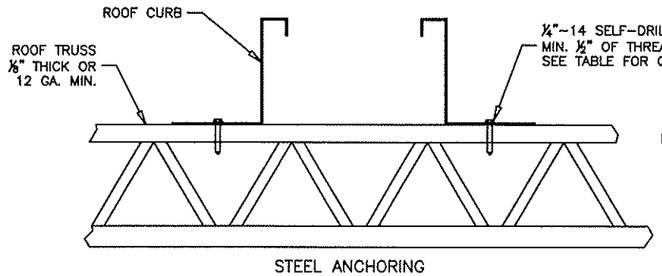
Texas Firm No: F-2183
L. David Rice
Registration No: 81248



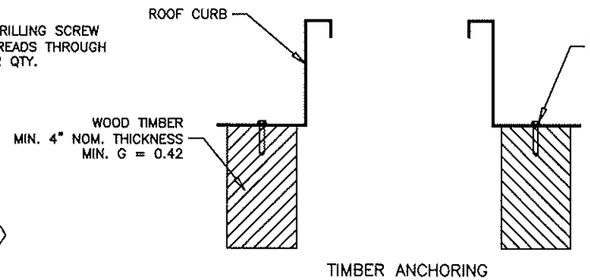
AUG 15 2012



CONCRETE DECK ANCHORING

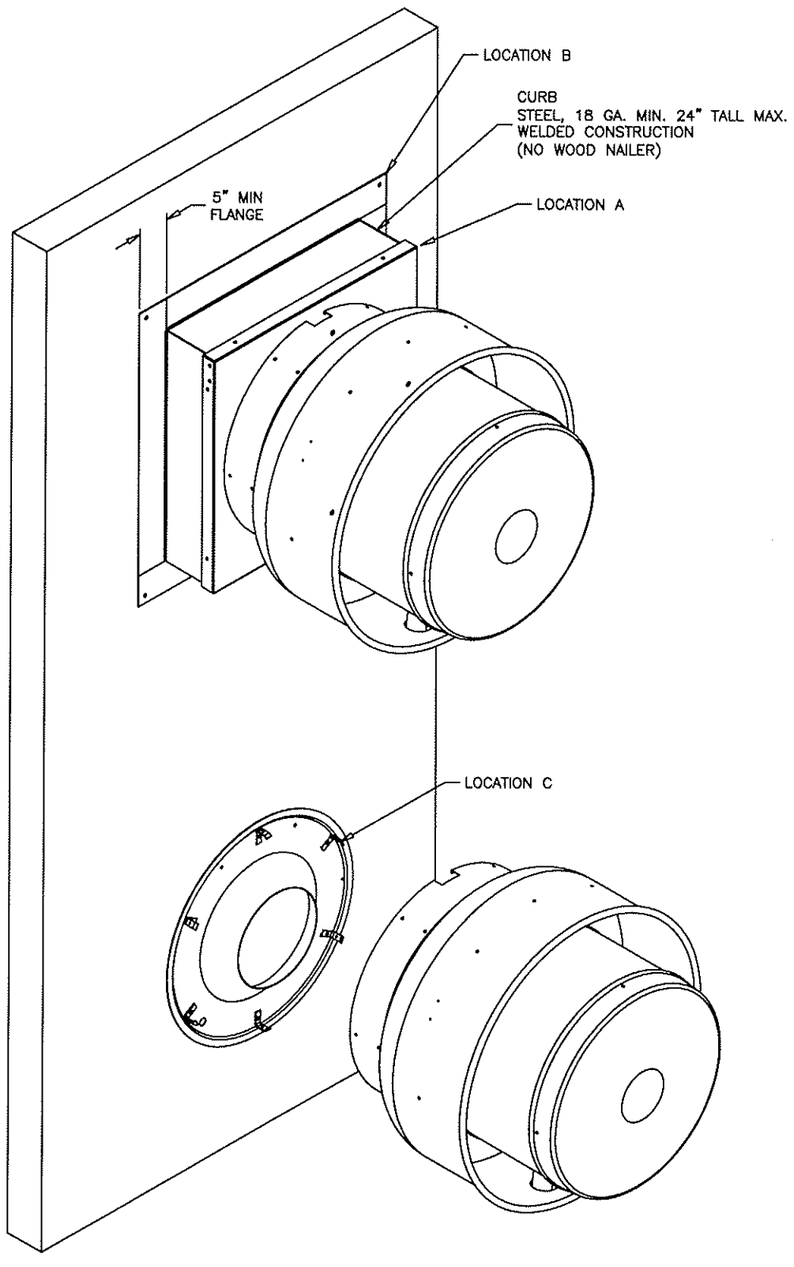


STEEL ANCHORING



TIMBER ANCHORING

GREENHECK
YAKLOVICH
06/04/2009
1/4.5
D
CUE/CUBE-060-300
G/GB-06-300
CURB MOUNTING
SHEET 7 OF 8
HSA3007



FAN TO CURB MOUNTING – LOCATION A

UNIT SIZE	FASTENERS PER SIDE
CUE–060–065–070–075–080–085–090–095–098–099–101–121–131–141/HP–161/HP CUBE–098–099–101/HP–121–131–141/HP–161/HP/XP	3
CUE–180/HP–200 CUBE–180/HP–200/HP–220/HP–240/HP/XP	5
CUBE–300/HP/XP	9

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. $\frac{5}{16}$ INCH SELF–DRILLING SCREWS.

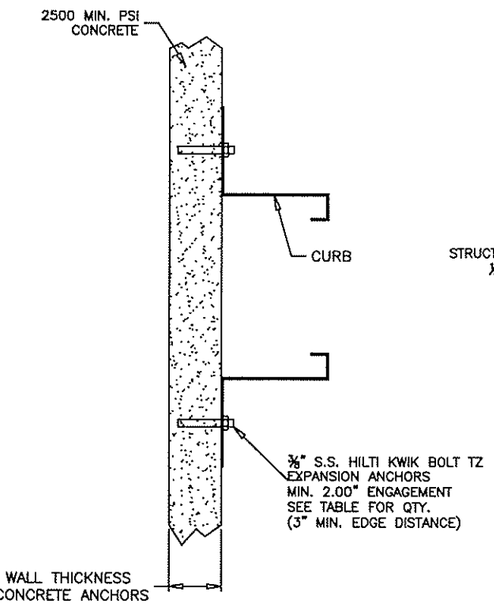
CURB TO DECK MOUNTING – LOCATION B

UNIT SIZE	CONCRETE ANCHORING NO. OF FASTENERS PER SIDE	STEEL DECK ANCHORING NO. OF FASTENERS PER SIDE	TIMBER ANCHORING NO. OF FASTENERS PER SIDE
CUE/CUBE ≤ 161	2	2	2
CUE/CUBE > 161	3	4	4

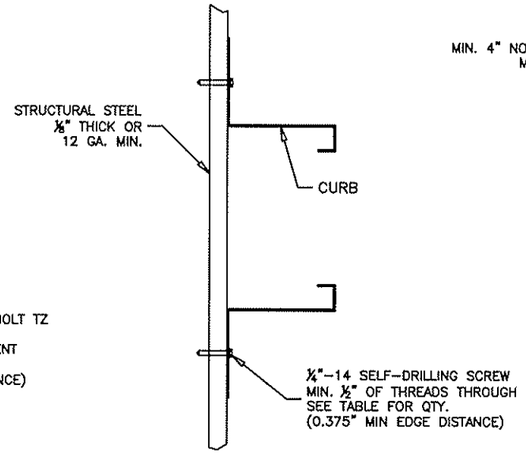
FASTENERS NEED TO BE LOCATED ON 2 OPPOSITE SIDE OF FAN CURB, EITHER TOP AND BOTTOM OR LEFT AND RIGHT SIDES.

CWB/CW MOUNTING – LOCATION C

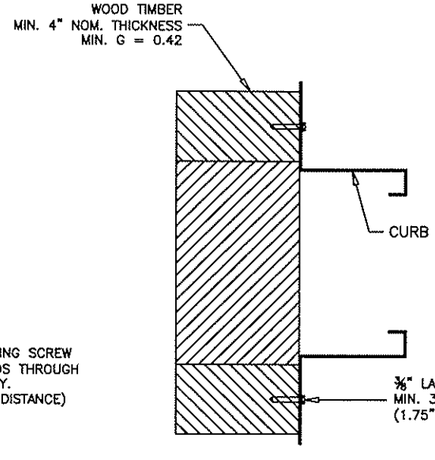
UNIT SIZE	NO. OF FASTENERS
60 – 161	4
180 – 300	6



CONCRETE DECK ANCHORING



STEEL ANCHORING



TIMBER ANCHORING

WALL SUBSTRATE DETAILS – LOCATION B AND C

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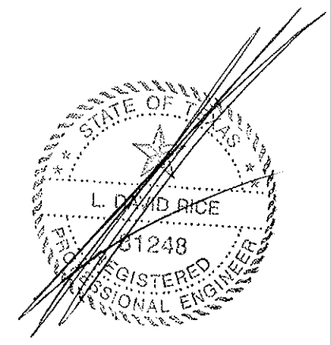

AUG 15 2012

GREENHECK

DRAWN BY	PFEIFFER
DATE	01/12/12
SCALE	1/4.5
DWG. NO.	HSA3008
REV.	D

CUE/CUBE–060–300
CW/CWB–60–300
SIDEWALL MOUNTING
SHEET 8 OF 8