

STIFFENER ATTACHMENT DETAILS STEEL CONDITION

INSTALLATION NOTES: 1) DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES FOR LOUVER PER CHARTS ON DRAWING 6

2) IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS TRANSFERRED FROM THE BUILDING.

3) IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.

4) INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR MATERIALS IN ORDER TO PROTECT FROM CORROSION.

5) CRITICAL EQUIPMENT TO BE PROTECTED FROM MOISTURE INGRESS.

6) OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFFESSIONAL ENGINEER.

7) MULTI-SECTION WIDE AND HIGH LOUVER SYSTEMS ARE ALLOWABLE PROVIDED THE INDIVIDUAL SECTIONS ARE SUPPORTED PER THE DETAIL ON THIS DRAWING AND A SUITABLE STRUCTURE IS ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.

8) ALL STEEL SUBSTRATE SHALL BE 18 GA STUD EQUIVALENT OR STRONGER.

RICE ENGINEERING

REVERSE ATTACHMENT OPTION-

105 School Grank Trail Luxemburg, WI 54217 Phone: 920.845 1042 Fax: 920 845.1048 www.rico-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 L. David Rice Registration No: 50923

MULLION ATTACHMENT DETAILS STEEL CONDITION

- 1/2" MIN.

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

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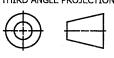
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TOLERANCE UNLESS NOTED: ±0.030 X.XX X.XXX ANGLE ±1° FRACTION ±1/16

MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS



THIRD ANGLE PROJECTION



- 3/4" MAX APR 0 9 2010

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DRAWING DESCR: STEEL ATTACHMENT DETAILS

PROJECT: FLORIDA BUILDING CODE LOUVERS

LOCATION:

CUSTOMER:

PROJ. MGR: DATE: 11/24/2009 | CHK'D BY: SHEET: 2 of 6 SCALE: NTS

DRAWN BY: TB ORDER NUMBER | P.O. NUMBER | DRAWING NUMBER STEEL CONDITION

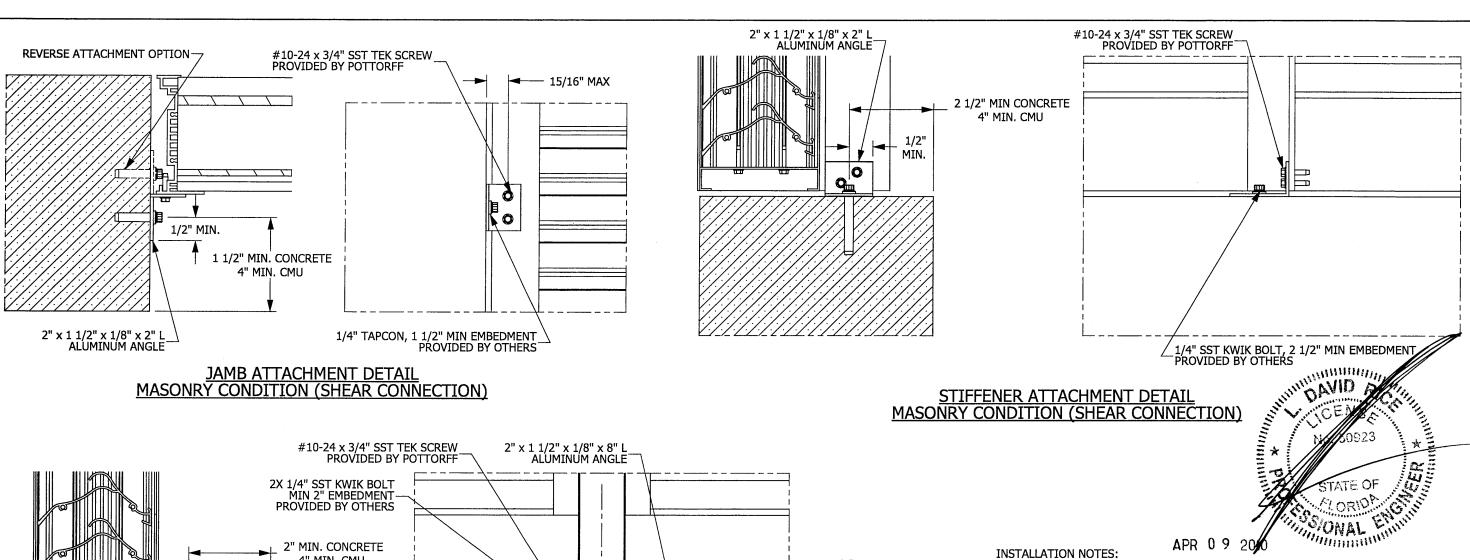
±0.015 ±0.010

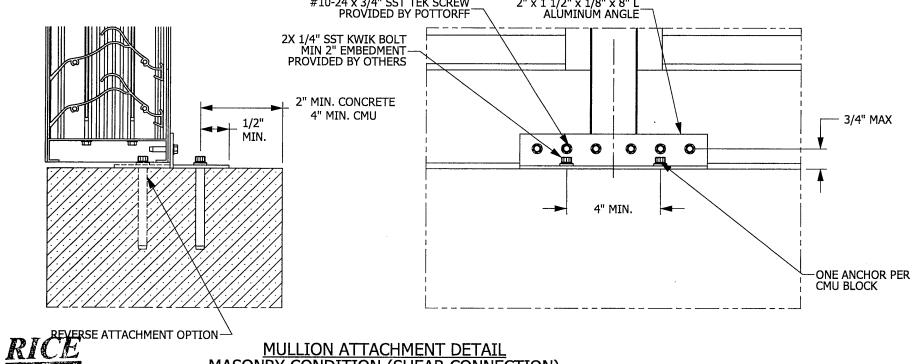
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MULLION ATTACHMENT DETAIL
MASONRY CONDITION (SHEAR CONNECTION)

3) IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.

APR 0 9 20/0

1) DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN

2) IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS

PRESSURES FOR LOUVER PER CHARTS ON DRAWING 6

4) INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR MATERIALS IN ORDER TO PROTECT FROM CORROSION.

5) CRITICAL EQUIPMENT TO BE PROTECTED FROM MOISTURE INGRESS.

6) OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFFESSIONAL ENGINEER.

7) MULTI-SECTION WIDE AND HIGH LOUVER SYSTEMS ARE ALLOWABLE PROVIDED THE INDIVIDUAL SECTIONS ARE SUPPORTED PER THE DETAIL ON THIS DRAWING AND A SUITABLE STRUCTURE IS ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.

8) ALL CONCRETE SUBSTRATE SHALL BE BE 2000 PSI OR STRONGER.

9) ALL CMU SUBSTRATE SHALL BE ASTM C90 TYPE 2 FILLED WITH f'm=1500 PSI GROUT

DRAWING NUMBER

MASONRY COND.

(SHEAR)

DRAWING DESCR: MASONRY ATTACHMENT DETAILS

PROJECT: FLORIDA BUILDING CODE LOUVERS

INSTALLATION NOTES:

TRANSFERRED FROM THE BUILDING.

LOCATION:

CUSTOMER:

SHEET: 3 of 6

PROJ. MGR: DRAWN BY: TB ORDER NUMBER | P.O. NUMBER DATE: 11/24/2009 | CHK'D BY: SCALE: NTS

ENGINEERING 105 School Greek Trail Luxernburg, WI 54217

Phone 920 845 1042 Fax: 920,845 1048 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 L. David Rice Registration No: 50923

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

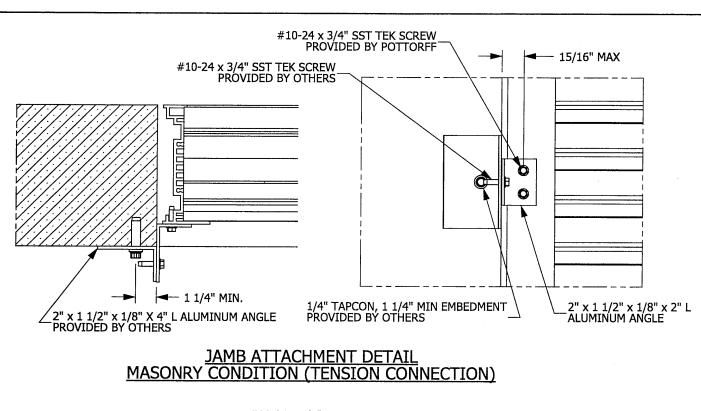
TOLERANCE UNLESS NOTED X.X ±0.030 X.XX ±0.015 X.XXX ±0.010 ANGLE ±1°

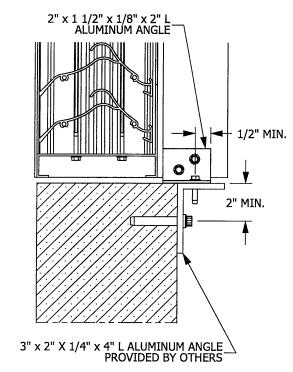
FRACTION ±1/16 MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS 5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110

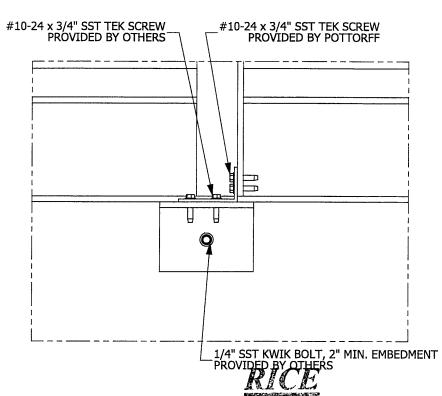
THIRD ANGLE PROJECTION



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STIFFENER ATTACHMENT DETAIL MASONRY CONDITION (TENSION CONNECTION)

ENGINEERING

105 School Creek Trail Luxemburg, WI 54217 Phone: 920.845 1042 Fax: 920 845 1048 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 L. David Rice Registration No: 50923

MSTALLATION NOTES:

1) DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES FOR LOUVER PER CHARTS ON DRAWING 6

2) IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS TRANSFERRED FROM THE BUILDING.

3) IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.

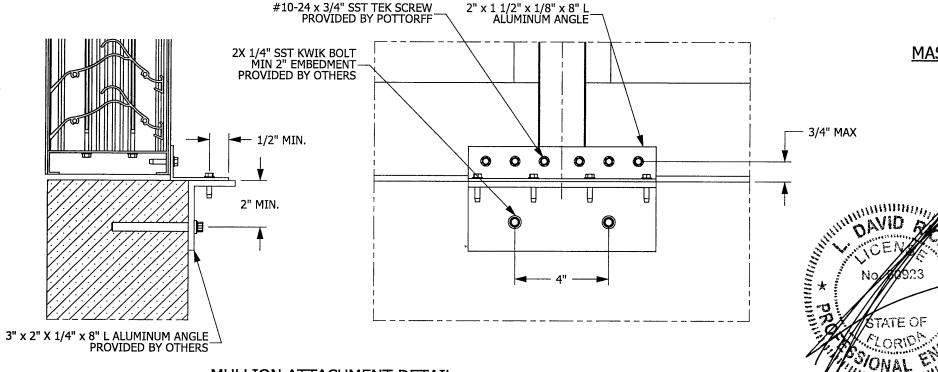
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 $\,$ 6) OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFFESSIONAL ENGINEER.

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8) ALL CONCRETE SUBSTRATE SHALL BE BE 2000 PSI OR STRONGER.



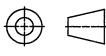
MULLION ATTACHMENT DETAIL MASONRY CONDITION (TENSION CONNECTION)

> UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED: X.X X.XX ±0.030 ±0.015 X.XXX ±0.010 ANGLE ±1° FRACTION ±1/16

MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS 5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110

THIRD ANGLE PROJECTIO



APR 0 9 2010

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PROJECT: FLORIDA BUILDING CODE LOUVERS

LOCATION:

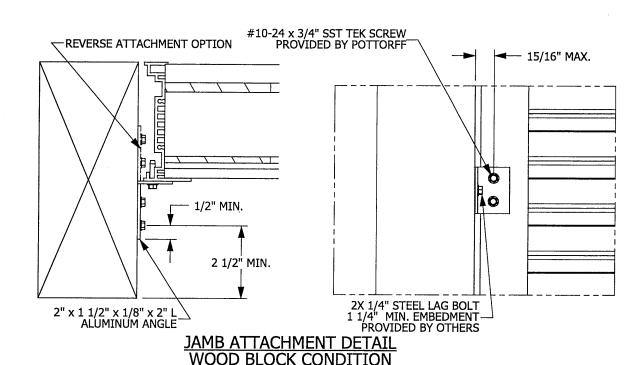
SHEET: 4 of 6

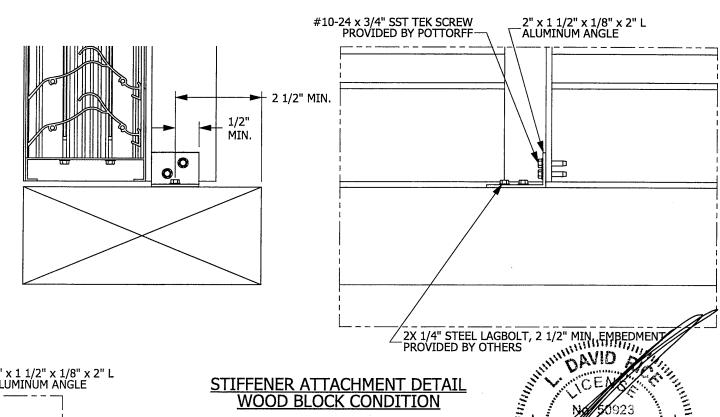
PROJ. MGR: DRAWN BY: TB DATE: 11/24/2009 | CHK'D BY:

SCALE: NTS

DRAWING NUMBER MASONRY COND. ORDER NUMBER | P.O. NUMBER (TENSION)







STIFFENER ATTACHMENT DETAIL WOOD BLOCK CONDITION

INSTALLATION NOTES:

2 1/2" MIN.

MIN.

#10-24 x 3/4" SST TEK SCREW PROVIDED BY POTTORFF

∠REVERSE ATTACHMENT OPTION

ENGINEERING

105 School Creek Trail Luxemburg, Wi 54217 Phone 920.845 1042 Fax 920.345 1048 www.rice-inc.com

Florida Firm No: F-01000005061 Certificate of Authorization: #9090 L. David Rice Registration No: 50923

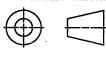
3/4" MAX 0 0 0 0 - 3" MIN. ---**>** ZX 1/4" STEEL LAGBOLT, 2 1/2" MIN. EMBEDMENT PROVIDED BY OTHERS

MULLION ATTACHMENT DETAIL WOOD BLOCK CONDITION

> UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED: X.X X.XX ±0.030 ±0.015 X.XXX ±0.010 ANGLE ±1° FRACTION ±1/16

MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS



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DRAWING DESCR: WOOD ATTACHMENT DETAILS

PROJECT: FLORIDA BUILDING CODE LOUVERS

ORDER TO PROTECT FROM CORROSION.

OCATION:

CUSTOMER:

PROJ. MGR:

DRAWN BY: TB ORDER NUMBER | P.O. NUMBER | DRAWING NUMBER DATE: 11/24/2009 | CHK'D BY: SHEET: 5 of 6 SCALE: NTS WOOD CONDITION

APR 0 9

1) DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES FOR LOUVER PER CHARTS ON DRAWING 6

2) IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS TRANSFERRED FROM THE BUILDING.

5) CRITICAL EQUIPMENT TO BE PROTECTED FROM MOISTURE INGRESS.

8) ALL WOOD SUBSTRATE SHALL BE G=0.42 DENSITY OR BETTER.

3) IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.

4) INSTALLER TO PROVIDE GASKET MATERIAL BETWEEN DISSIMILAR MATERIALS IN

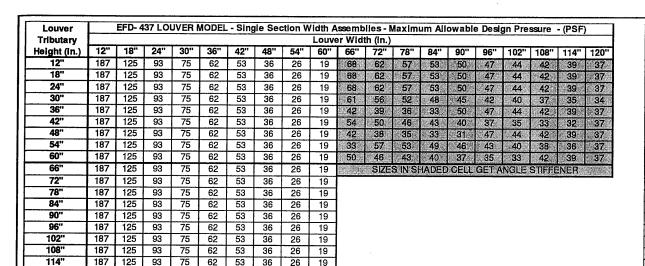
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5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110

2" x 1 1/2" x 1/8" x 2" L ALUMINUM ANGLE

THIRD ANGLE PROJECTIO



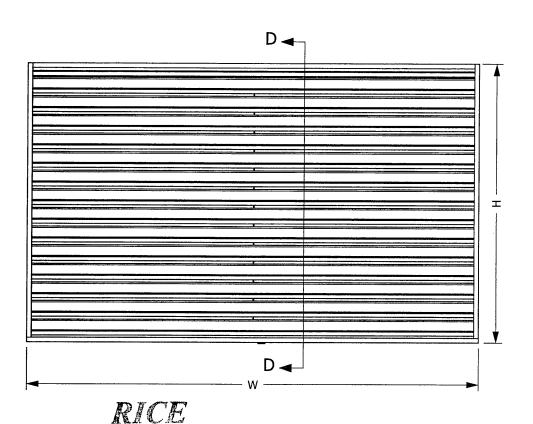
187 125 93 75 62 53 36 26 19

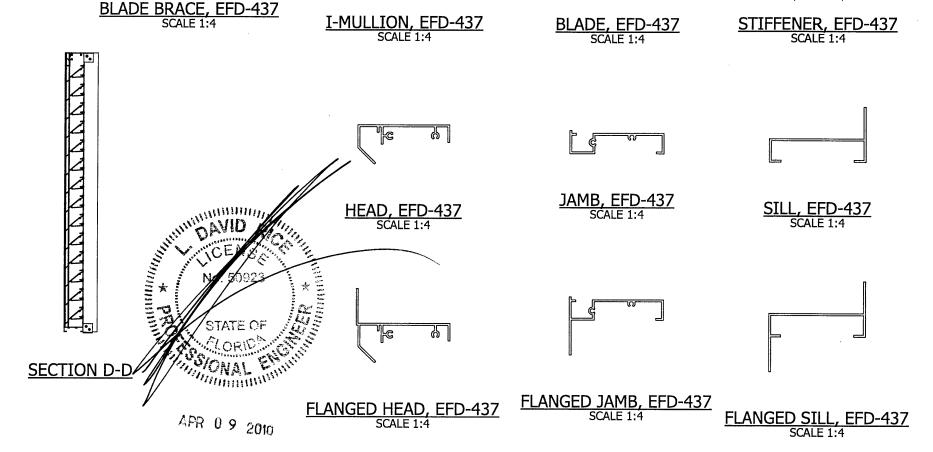
Louver Tributary Height (in.)	EFD - 437 LOUVER MODEL - Multiple Section Width Assemblies - Maximum Allowable Design Pressure - (PSF) Louver Width (in.)																		
	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"
12"	187	125	93	75	62	53	36	26	19	68	62	57	53	50	47	44	42	39	37
18"	187	125	93	75	62	53	36	26	19	68	62	57	53	50	47	44	42	39	37
24"	187	125	93	75	62	53	36	26	19	68	62	57	53	50	47	44	42	39	37
30"	187	125	93	75	62	53	36	26	19	61	56	52	48	45	42	40	37	35	34
36"	187	125	93	75	62	53	36	26	19	42	39	36	33	50	47	44	42	39	37
42"	187	125	93	75	62	53	36	26	19	54	50	46	43	40	37	35	33	32	37
48"	187	125	93	75	62	53	36	26	19	42	38	35	33	31	47	44	42	39	37
54"	187	125	93	75	62	53	36	26	19	33	57	53	49	46	43	40	38	36	34
60"	187	125	93	75	62	53	36	26	19	50	46	43	40	37	35	33	34	33	31
66"	187	125	93	75	62	53	36	26	19		SIZE	SINS	ADED	CELL	GETA	NGLE	STIFFE	NER	
72"	187	125	93	75	62	53	36	26	19										
78"	187	125	93	75	62	53	36	26	19	1									
84"	187	125	93	75	62	53	36	26	19	1									
90"	187	125	93	75	62	53	36	26	19	1									
96"	187	125	91	73	61	52	36	26	19	1									
102"	182	122	81	65	54	46	36	26	19	1									
108"	172	115	72	58	48	41	36	26	19	1									
4 4 411	100	400	05	E0.	40				1.0	1									

163 109 65 52 43 37 32 26 19

155 103 58 47 39 33 29 26 19

Louver Height	Stiffener Angle Dimensions (b x a x t) Width (in)												
													(in.)
12"													
18"	2"x1.5"x1/8"												
24"													
30"	1												
36"													
42"				2")	2"x1	./8"							
48"										•			
54"			211	w 20	~ 1/	411							
60°		•	2	x Z	x 1/	4		3" x	2 ^π x	1/4"			





ENGINEERING

105 School Creek Trail Luxemburg, WI 54217 Phone 920,845 1042 Fax: 920.845 1048 WWW.hue-inc.com

Florida Firm No. F-01000005061 Certificate of Authorization: #9090 L. David Rice Registration No: 50923

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED: X.X ±0.030 X.XX ±0.015 X.XXX ±0.010 ANGLE ±1° FRACTION ±1/16

MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS 5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110

120"

THIRD ANGLE PROJECTION



ARCHITECTURAL PRODUCTS

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DRAWING DESCR: EFD-437, ELEVATION & DETAILS

PROJECT: FLORIDA BUILDING CODE LOUVERS

LOCATION:

CUSTOMER:

PROJ. MGR:

DRAWN BY: TB ORDER NUMBER | P.O. NUMBER | DRAWING NUMBER DATE: 11/24/2009 | CHK'D BY: SCALE: 1:20 SHEET: 6 of 6 EFD-437