MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Just Shutter It, Inc.
1341 SW S. Macedo Blvd.
Port St. Lucie, Florida 34983

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 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: " Supernova " Aluminum Accordion Shutter System

APPROVAL DOCUMENT: Drawing No. 14-131, titled " Supernova Extruded Aluminum Accordion Shutter ", sheets 1 through 11 of 11, and sht. 3.1, 4.1, 9.1, prepared by Engco, Inc., dated June 26, 2014, signed and sealed by Pedro De Figueiredo, P.E., on June 26, 2014 bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval 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, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, 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, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

MIAMI-DADE COUNTY APPROVED

08/14/2014

NOA No. 14-0708.05
Expiration Date: 08/14/2019
Approval Date: 08/14/2014

Just Shutter It, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 14-131, titled " Supernova Extruded Aluminum Accordion Shutter ", sheets 1 through 11 of 11, and sht. 3.1, 4.1, 9.1, prepared by Engco, Inc., dated June 26, 2014, signed and sealed by Pedro De Figueiredo, P.E., on June 26, 2014.*

B. TESTS

1. *See Association's generic approval under 14-0155.*

C. CALCULATIONS

1. *See Association's generic approval under 14-0155.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *See Association's generic approval under 14-0155.*

F. STATEMENTS

1. *Release letter issued by the National Approved Shutter Association, dated August 01, 2014, certifying this product to meet the criteria of product tested and approved, and allowing Just Shutter It, Inc. to use the test results approved under Miami Dade County Approval No. 14-0155, signed by Mr. Peter Loucks.*
2. *Acknowledgment letter by Just Shutter It, Inc., dated August 01, 2014, signed by Mr. Samuel Zaza.*
3. *Letter by Engco Inc., dated June 26, 2014, signed and sealed by Mr. Pedro De Figuriredo, P.E., certifying that the drawing (No. 14-131) prepared for Just Shutter It, Inc. is engineering wise identical to N.A.S.A.'s generic drawing (No. 14-019.1).*

Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0708.05
Expiration Date: 08/14/2019
Approval Date: 08/14/2014

SUPERNOVA

EXTRUDED ALUMINUM ACCORDION SHUTTER
LARGE MISSILE IMPACT RESISTANT

GENERAL NOTES: FLORIDA BUILDING CODE 2010 - HVHZ

1- DEFINITION: THIS PRODUCT IS AN ACCORDION TYPE SHUTTER; DESIGNED, CONSTRUCTED AND ERECTED TO EASILY ENCLOSE AN AREA, PROVIDING PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE AND SMALL MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.

2- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 2010 FLORIDA BUILDING CODE.

3- POSTING: A PERMANENT LEGIBLE DECAL SHALL BE PLACED AT A READILY VISIBLE LOCATION STATING THE FOLLOWING:

"JUST SHUTTER IT INC - PORT ST. LUCIE - FLORIDA
SUPERNOVA EXTRUDED ALUMINUM ACCORDION SHUTTER
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED"

4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-10 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES FOR EACH SHUTTER COMPONENT TO BE USED.

5- MATERIAL: ALL EXTRUDED ALUMINUM SHAPES SHALL BE MADE OF 6063-T6 OR AS NOTED.

6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL.

7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
7.1- THE STABILITY OF THE STRUCTURE WHERE THE SHUTTER IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, WIND LOADS, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL. HOWEVER, WOOD ANCHORS WITH 1.6 LOAD DURATION INCREASE FOR WIND LOAD HAVE BEEN USED.

USER INSTRUCTIONS:

1- DETERMINE PROJECT DESIGN WIND LOAD PRESSURES AS PER ITEM 4 OF GENERAL NOTES.

2- CHECK BLADE SPAN ALLOWABLE DESIGN PRESSURE ON TABLE 1 OR TABLE 1A.

3- VERIFY GLASS SEPARATION ON TABLE 2 IF APPLICABLE.

4- DETERMINE MAXIMUM ANCHORAGE PRESSURE CAPACITY FUNCTION OF SECTION TYPE TO BE USED AS PER SHEETS 3, 4, 5 & 6. SECTIONS ARE INTERCHANGEABLE.

5- THE LOWEST PRESSURE FROM ITEMS 2 AND 4 ABOVE MUST NOT EXCEED THE REQUIRED DESIGN PRESSURE FROM GENERAL NOTES 4

TABLE OF CONTENTS:

SHEET	DESCRIPTION
1	TABLE OF CONTENTS, GENERAL NOTES, USER INSTRUCTIONS
2	TYPICAL ELEVATION, ALLOWABLE BLADE PRESSURE TABLE 1, 1A AND GLASS SEPARATION TABLE 2
3	TYPICAL SECTIONS A, B & C WITH ANCHORAGE TABLES
3	TYPICAL SECTIONS A, B & C WITH ANCHORAGE TABLES (ANCHORS E & E1)
4	TYPICAL SECTIONS B1, B2, B3 & B4 WITH ANCHORAGE TABLES
4.1	TYPICAL SECTIONS B1, B2, B3 & B4 WITH ANCHORAGE TABLES (ANCHORS E & E1)
5	TYPICAL SECTIONS D & E WITH ANCHORAGE TABLES
6	TYPICAL SECTIONS F, G & I WITH ANCHORAGE TABLES
7	JAMB AND CORNER SECTIONS "J"
8	LOCK MALE & FEMALE SECTIONS "L"
9	LOCK UNIMATE SECTIONS "M"
9.1	SECTION "X" DETAILS
10	BILL OF MATERIALS, ANCHOR SCHEDULE & BLADE ASSEMBLY.
11	COMPONENTS

MANUFACTURER:

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LARGE & SMALL
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ENGINEERING:

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DAVIE, FL. 33314
Tel.: (954) 585-0304
ENGCO@AOL.COM

PEDRO M. DE FIGUEIREDO ★ LICENSE ★ No. 52609 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER ★

JUN 26 2014

Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI DADE APPROVAL:

Approved as complying with the Florida Building Code
Date 06/14/2014
NOA# 14-0708.05
Miami Dade Product Control
By

DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

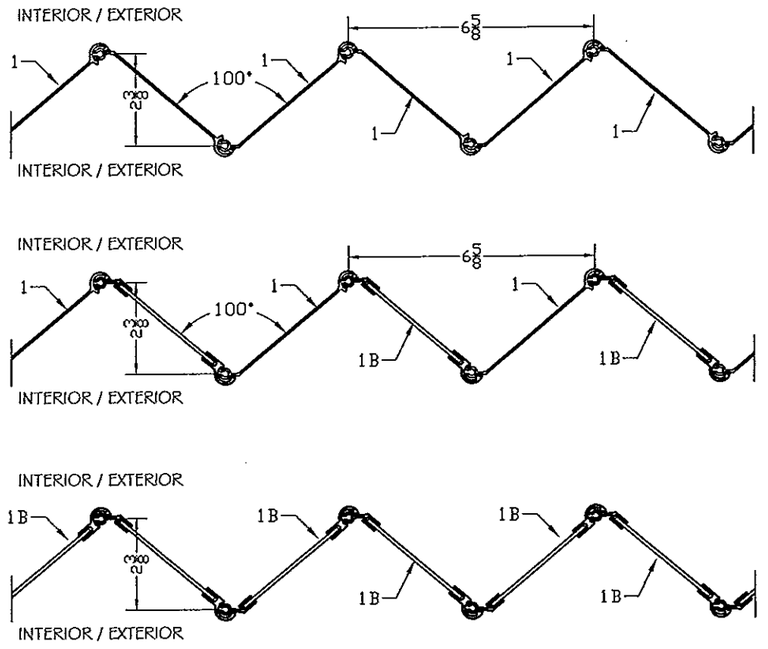
TABLE 1
MAXIMUM ALLOWABLE #1 BLADE SHUTTER SPAN X PRESSURE

BLADE SPAN INCHES	PRESSURE (PSF) POS	NEG
60	160	160
66	158	158
72	144	144
78	133	133
84	124	124
90	116	116
96	108	108
104	100	100
108	93	93
114	83	83
120	75	75
126	68	68
132	62	62
138	57	57
144	48	52
150	41	48
162	30	40

TABLE 1A
MAXIMUM ALLOWABLE #1 & #1B BLADES SHUTTER SPAN X PRESSURE

BLADE SPAN INCHES	PRESSURE (PSF) POS	NEG
60	160	160
66	158	158
72	144	144
78	133	133
84	124	124
90	116	116
96	108	108
104	100	100
108	93	93
114	83	83
120	75	75
126	68	68
132	61	61
138	53	53
144	45	47
150	38	42
162	28	33

NOTES:
1- ACCORDION SHUTTER BLADE SPAN (INCHES) FOR ALL CONDITIONS
2- PRESSURE - DESIGN WIND LOAD (PSF)
3- LINEAR INTERPOLATION IS ACCEPTABLE FOR DESIGN WIND LOADS AND BLADE SPAN BETWEEN TABULATED VALUES.
4- USE TABLE 1A WHEN ONE OR MORE TYPE 1B BLADE IS USED
5- BLADE REVERSED INSTALLATION IS ALLOWED FOR ALL MOUNTED CONDITIONS

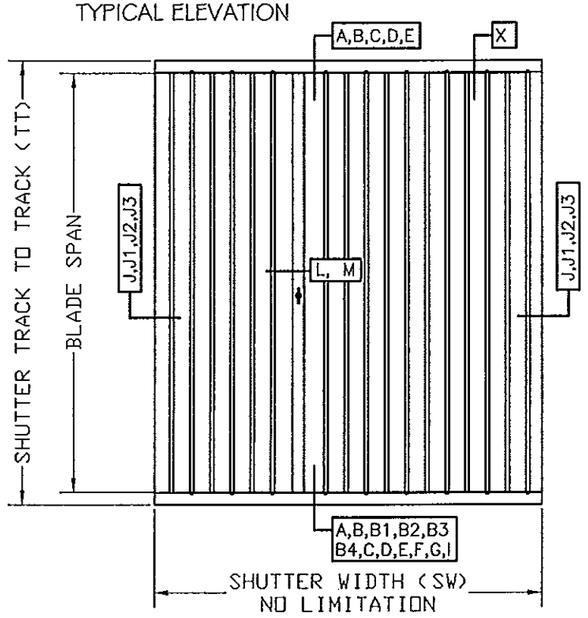


ALL ALUMINUM BLADES

COMBINATION ALUMINUM / LEXAN BLADES
BLADES CAN BE ARRANGED IN MANY COMBINATIONS AS REQUIRED

ALL LEXAN BLADES

TYPICAL ELEVATION



TYPICAL CROSS SECTION

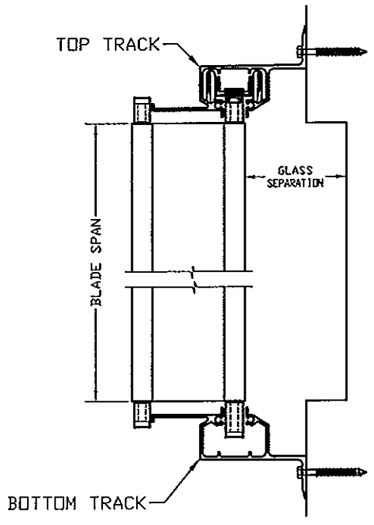


TABLE 2
MINIMUM SHUTTER SEPARATION FROM GLAZING

GLAZING SEPARATION (INCHES)			
BLADE TYPE	BLADE SPAN <=60"	<=104"	<=162"
ALUMINUM ALL ELEVATIONS	2"	2 3/4"	3"
LEXAN <=30' ELEVATION	3"	3"	3"
LEXAN >30' ELEVATION	2 1/8"	3"	3"

NOTES:
1- SEPARATION FROM GLAZING AREAS SHALL BE MEASURED FROM GLAZING SURFACE TO THE INNER MOST BLADE OR LOCK SURFACE.
2- GLASS SEPARATION IS APPLICABLE PER THE HVHZ (BROWARD AND MIAMI-DADE COUNTIES).
3- WHEN SHUTTER IS ASSEMBLED WITH BOTH TYPES OF BLADES THE LARGEST GLASS SEPARATION SHALL APPLY.

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PRODUCT:

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LARGE & SMALL
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PEDRO M. DE FIGUEIREDO ★ LICENSE No. 52609 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

JUN 2 6 2014

Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI DADE APPROVAL:

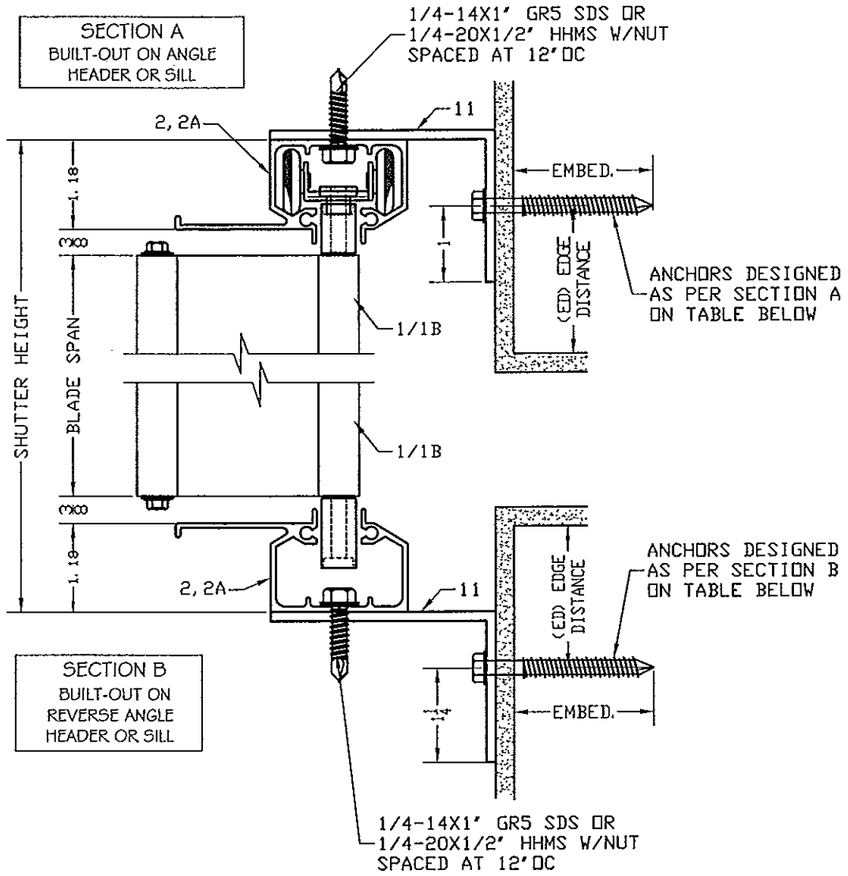
Approved as complying with the Florida Building Code
Date 6/14/2014
NOA# 14-0708.05
Miami Dade Product Control
By

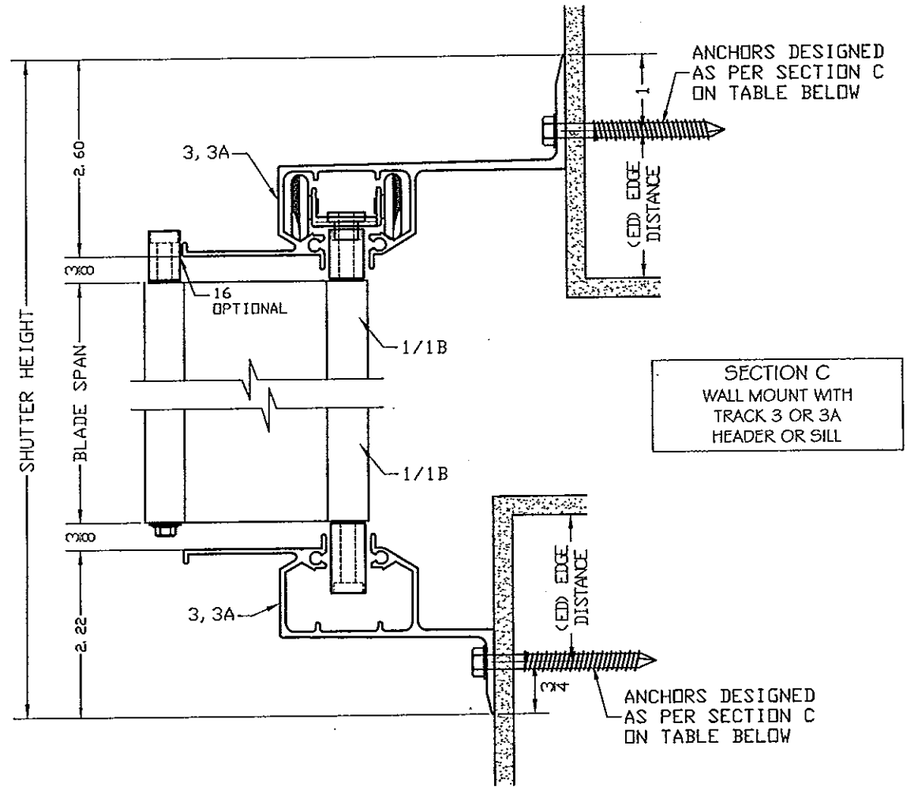
DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

SHEET 2 OF 11

DRAWING #: 14-131

TYPICAL SECTIONS A, B AND C AND ANCHOR SCHEDULE





MAX. BLADE SPAN IN INCHES

SEE ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

ANCHORAGE SPACING

MAXIMUM ANCHORAGE PRESSURE (PSF) BASED ON SPACING IN INCHES ON CENTER

	S	162						132						108						84						60					
		A	A1	B	B1	C	D	A	A1	B	B1	C	D	A	A1	B	B1	C	D	A	A1	B	B1	C	D	A	A1	B	B1	C	D
SECTION A	14	33	12	33	33	33	32	59	--	61	59	60	39	72	--	83	72	74	48	93	23	107	93	95	61	130	32	149	130	132	86
	12	33	14	33	33	33	33	61	--	61	61	61	46	84	21	93	84	86	56	109	27	124	109	110	72	152	38	160	152	155	100
	8	33	21	33	33	33	33	61	26	61	61	61	61	93	31	93	93	93	83	124	40	124	124	124	107	160	57	160	160	160	150
	6	33	28	33	33	33	33	61	34	61	61	61	61	93	42	93	93	93	93	124	54	124	124	124	124	160	76	160	160	160	160
	4	33	33	33	33	33	33	61	51	61	61	61	61	93	63	93	93	93	93	124	81	124	124	124	124	160	113	160	160	160	160
SECTIONS B OR C	14	24	--	28	24	25	--	30	--	34	30	30	20	36	--	41	36	37	24	47	--	53	47	47	31	65	--	75	65	66	43
	12	28	--	32	28	29	--	35	--	40	35	35	23	42	--	48	42	43	28	54	--	62	54	55	36	76	--	87	76	77	50
	8	33	--	33	33	33	28	52	--	59	52	53	34	63	--	73	63	64	42	81	20	93	81	83	54	114	28	131	114	116	75
	6	33	--	33	33	33	33	61	--	61	61	61	46	84	21	93	84	86	56	109	27	124	109	110	72	152	38	160	152	155	100
	4	33	21	33	33	33	33	61	26	61	61	61	61	93	31	93	93	93	83	124	40	124	124	124	107	160	57	160	160	160	150

NOTE: 1- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES

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PEDRO M. DE FIGUEIREDO LICENSE No. 52609 STATE OF FLORIDA PROFESSIONAL ENGINEER

JUN 26 2014

Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI DADE APPROVAL:

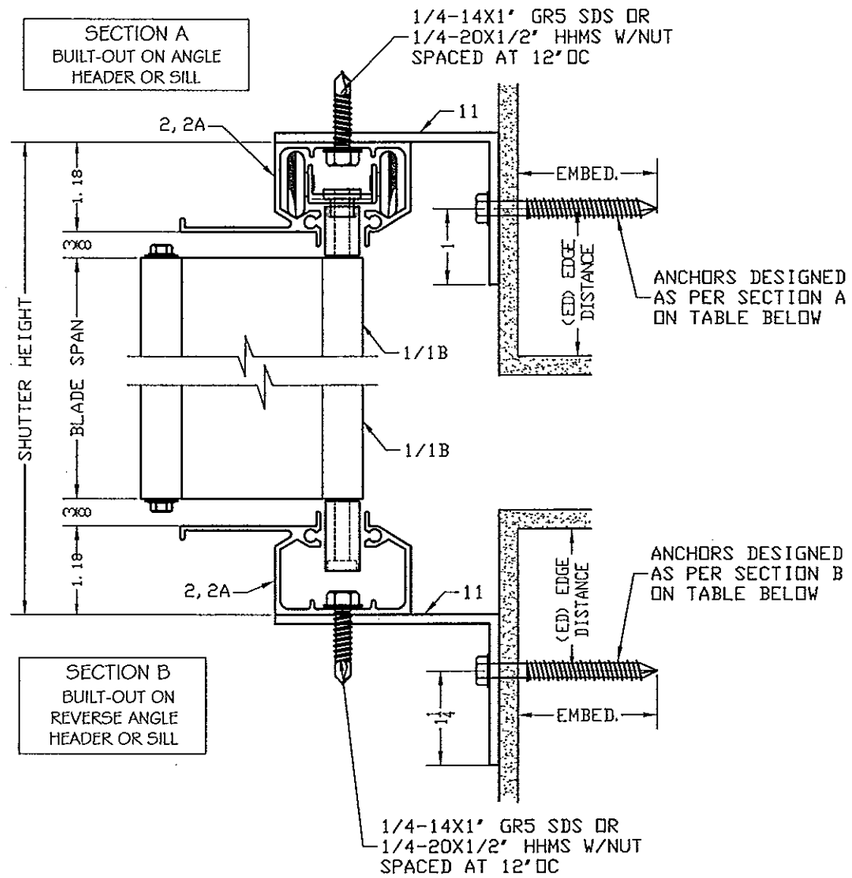
Approved as complying with the Florida Building Code
Date 08/12/2014
NOA# 14-0708.05
Miami Dade Product Control
By

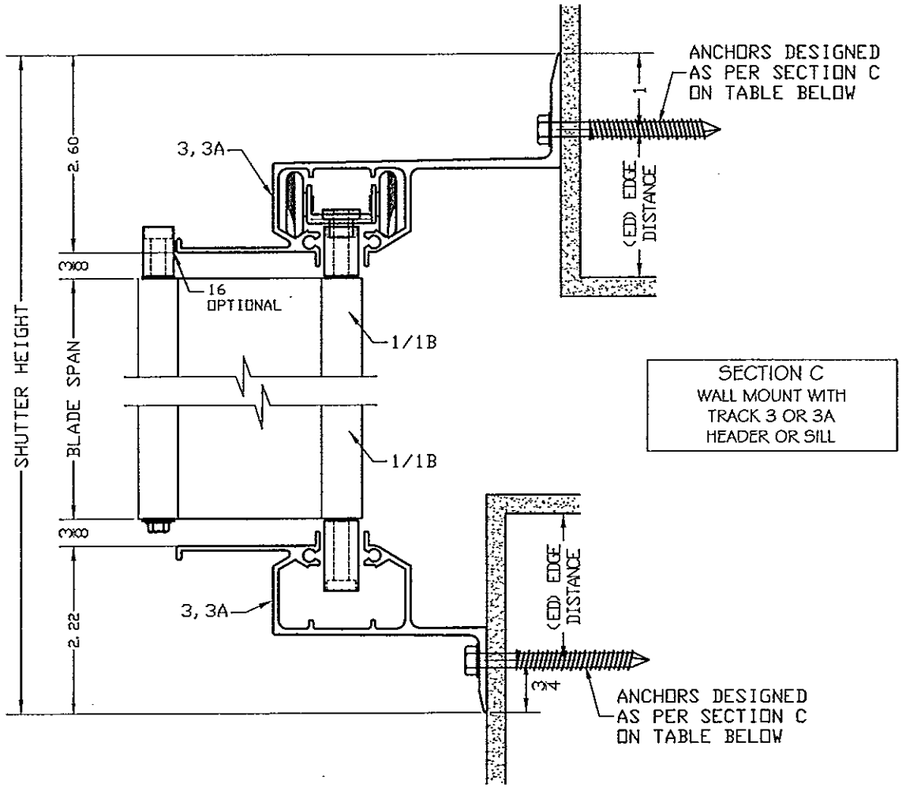
DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

SHEET 3 OF 11

DRAWING #: 14-131

TYPICAL SECTIONS A, B AND C AND ANCHOR SCHEDULE





MAX. BLADE SPAN IN INCHES

SEE ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

ANCHORAGE SPACING

		MAXIMUM ANCHORAGE PRESSURE (PSF) BASED ON SPACING IN INCHES ON CENTER									
		162		132		108		84		60	
	s	E	E1	E	E1	E	E1	E	E1	E	E1
SECTION A	14	33	25	61	30	85	37	110	48	154	67
	12	33	29	61	35	93	43	124	56	160	78
	8	33	33	61	53	93	65	124	84	160	117
	6	33	33	61	61	93	87	124	112	160	156
	4	33	33	61	61	93	79	124	102	160	143
SECTIONS B OR C	14	28	--	35	--	43	--	55	24	77	33
	12	33	--	41	--	50	22	64	28	90	39
	8	33	22	61	27	75	33	96	42	134	59
	6	33	29	61	35	93	43	124	56	160	78
	4	33	26	61	33	93	40	124	51	160	72

NOTE: 1- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES

ANCHOR SCHEDULE

TYPE	DESCRIPTION	EMB	E.D.
E	1/4" CRETE-FLEX SS4 INTO 3000 PSI CONCRETE	1.75	3.0
E1	1/4" CRETE-FLEX SS4 INTO CONCRETE BLOCK	1.25	3.0

NOTES: ED: EDGE DISTANCE SHALL BE BEYOND WALL DRESSING
EMB:EMBEDMENT SHALL BE BEYOND WALL DRESSING
1/4" CRETE-FLEX CAN BE USED IN REPLACE OF 1/4" LAG SCREWS

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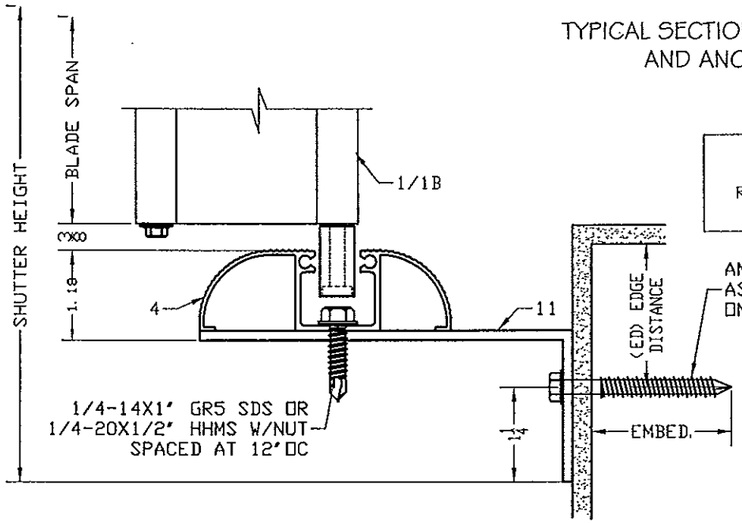
By

DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

SHEET 3.1 OF 11

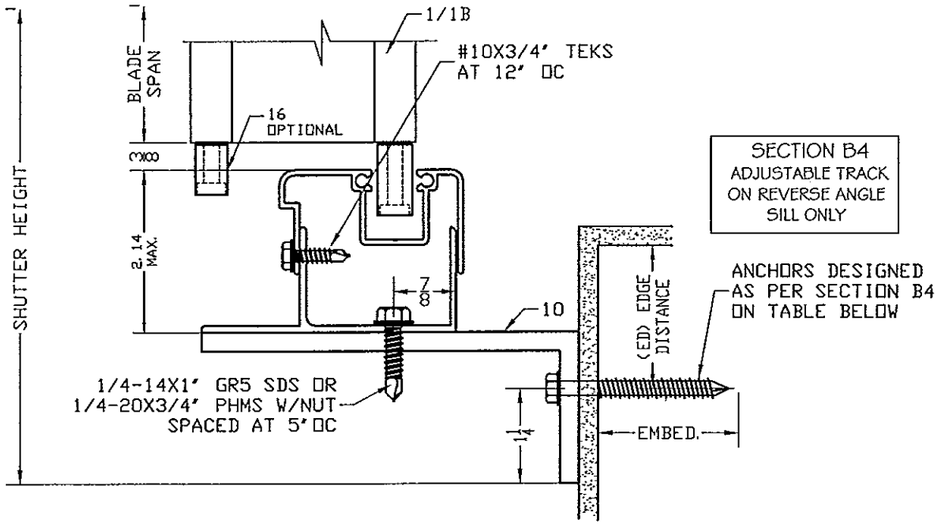
DRAWING #: 14-131

TYPICAL SECTIONS B1, B2, B3 AND B4 AND ANCHOR SCHEDULE



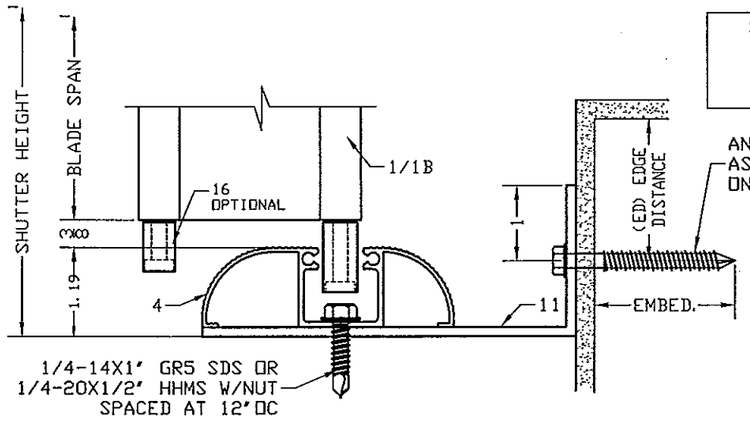
SECTION B1
"A" TRACK ON
REVERSE ANGLE
SILL ONLY

ANCHORS DESIGNED
AS PER SECTION B1
ON TABLE BELOW



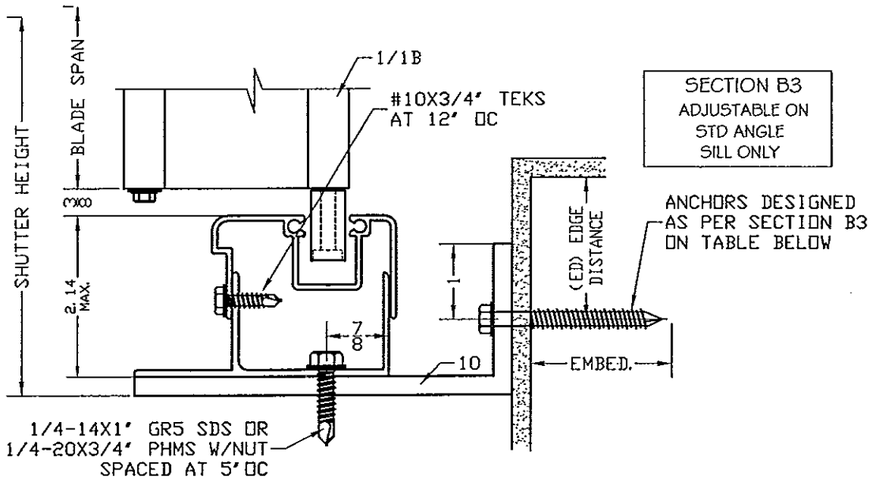
SECTION B4
ADJUSTABLE TRACK
ON REVERSE ANGLE
SILL ONLY

ANCHORS DESIGNED
AS PER SECTION B4
ON TABLE BELOW



SECTION B2
"A" TRACK ON
STD ANGLE
SILL ONLY

ANCHORS DESIGNED
AS PER SECTION B2
ON TABLE BELOW



SECTION B3
ADJUSTABLE ON
STD ANGLE
SILL ONLY

ANCHORS DESIGNED
AS PER SECTION B3
ON TABLE BELOW

MAX. BLADE SPAN IN INCHES

SEE ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

ANCHORAGE SPACING

		MAXIMUM ANCHORAGE PRESSURE (PSF) BASED ON SPACING IN INCHES ON CENTER																									
		162						132						108						84						60			
	S	A	A1	B	B1	C	D	A	A1	B	B1	C	D	A	A1	B	B1	C	D	A	A1	B	B1	C	D	A	A1	B	B1	C	D
SECTION B2	14	33	--	33	33	33	32	59	--	61	59	60	39	72	--	83	72	74	48	93	23	107	93	95	61	130	32	149	130	132	86
	12	33	--	33	33	33	33	61	--	61	61	61	46	84	21	93	84	86	56	109	27	124	109	110	72	152	38	160	152	155	100
	8	33	21	33	33	33	33	61	26	61	61	61	61	93	31	93	93	93	83	124	40	124	124	124	107	160	57	160	160	160	150
	6	33	28	33	33	33	33	61	34	61	61	61	61	93	42	93	93	93	93	124	54	124	124	124	124	160	76	160	160	160	160
	4	33	33	33	33	33	33	61	51	61	61	61	61	93	63	93	93	93	93	124	81	124	124	124	124	160	113	160	160	160	160
SECTIONS B1 OR B3	14	24	--	28	24	25	--	30	--	34	30	30	20	36	--	41	36	37	24	47	--	53	47	47	31	65	--	75	65	66	43
	12	28	--	32	28	29	--	35	--	40	35	35	23	42	--	48	42	43	28	54	--	62	54	55	36	76	--	87	76	77	50
	8	33	--	33	33	33	28	52	--	59	52	53	34	63	--	73	63	64	42	81	20	93	81	83	54	114	28	131	114	116	75
	6	33	--	33	33	33	33	61	--	61	61	61	46	84	21	93	84	86	56	109	27	124	109	110	72	152	38	160	152	155	100
	4	33	21	33	33	33	33	61	26	61	61	61	61	93	31	93	93	93	83	124	40	124	124	124	107	160	57	160	160	160	150
SECTION B4	14	--	--	22	--	--	--	23	--	26	23	24	--	28	--	32	28	29	--	36	--	42	36	37	24	51	--	58	51	52	34
	12	22	--	25	22	22	--	27	--	31	27	27	--	33	--	38	33	34	22	42	--	49	42	43	28	59	--	68	59	60	39
	8	33	--	33	33	33	22	40	--	46	40	41	27	49	--	57	49	50	33	64	--	73	64	65	42	89	22	102	89	91	59
	6	33	--	33	33	33	29	54	--	61	54	55	36	66	--	76	66	67	43	85	21	97	85	86	56	119	30	136	119	121	78
	4	33	--	33	33	33	33	61	20	61	61	61	53	93	25	93	93	93	65	124	32	124	124	124	84	160	44	160	160	160	117

NOTE: 1- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES

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JUN 2 6 2014

Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI DADE APPROVAL:

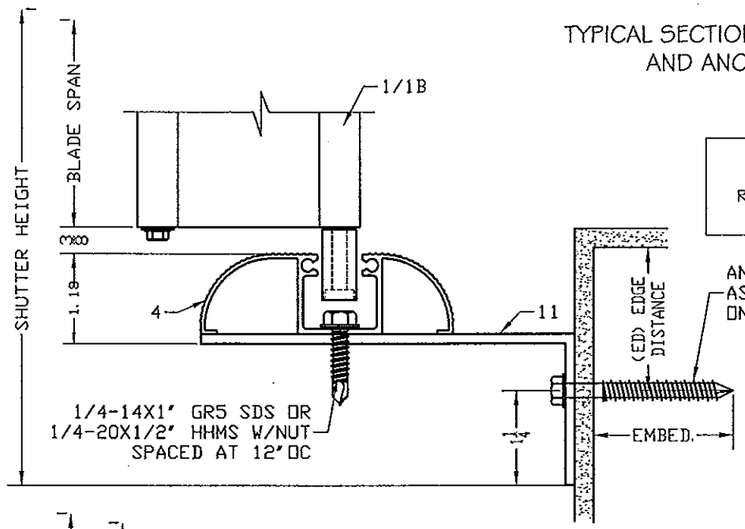
Approved as complying with the Florida Building Code
Date 06/14/2014
NOA# 14-0708.05
Miami Dade Product Control
By

DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

SHEET 4 OF 11

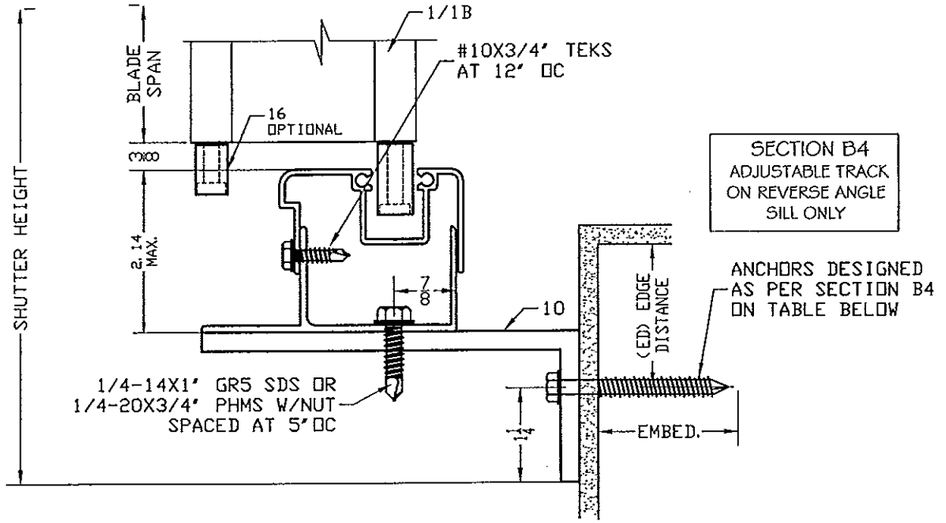
DRAWING #: 14-131

TYPICAL SECTIONS B1, B2, B3 AND B4 AND ANCHOR SCHEDULE



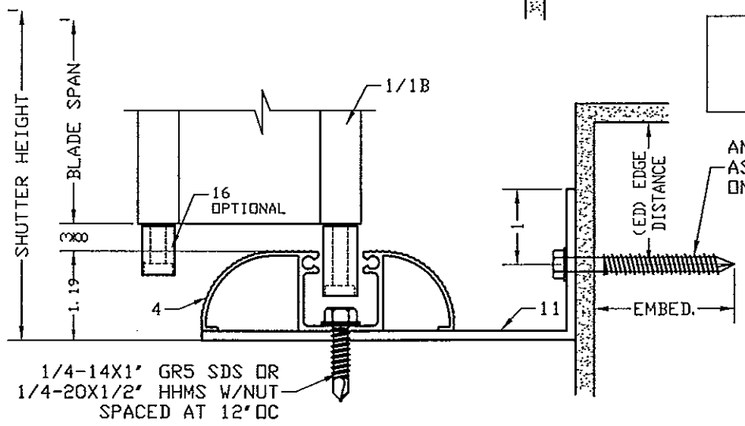
SECTION B1
"A" TRACK ON REVERSE ANGLE SILL ONLY

ANCHORS DESIGNED AS PER SECTION B1 ON TABLE BELOW



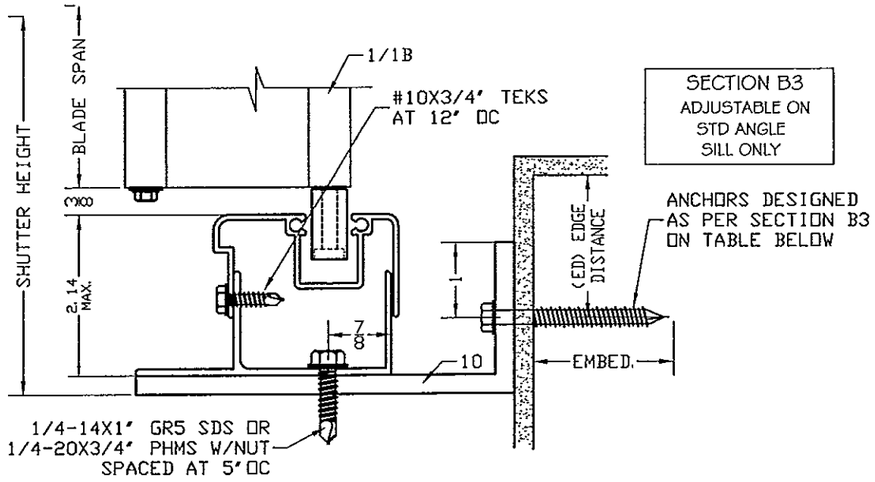
SECTION B4
ADJUSTABLE TRACK ON REVERSE ANGLE SILL ONLY

ANCHORS DESIGNED AS PER SECTION B4 ON TABLE BELOW



SECTION B2
"A" TRACK ON STD ANGLE SILL ONLY

ANCHORS DESIGNED AS PER SECTION B2 ON TABLE BELOW



SECTION B3
ADJUSTABLE ON STD ANGLE SILL ONLY

ANCHORS DESIGNED AS PER SECTION B3 ON TABLE BELOW

MAX. BLADE SPAN IN INCHES

SEE ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

ANCHORAGE SPACING

		MAXIMUM ANCHORAGE PRESSURE (PSF) BASED ON SPACING IN INCHES ON CENTER									
		162		132		108		84		60	
	s	E	E1	E	E1	E	E1	E	E1	E	E1
SECTION B2	14	33	25	61	30	85	37	110	48	154	67
	12	33	29	61	35	93	43	124	56	160	78
	8	33	33	61	53	93	65	124	84	160	117
	6	33	33	61	61	93	87	124	112	160	156
	4	33	33	61	61	93	79	124	102	160	143
SECTIONS B1 OR B3	14	28	--	35	--	43	--	55	24	77	33
	12	33	--	41	--	50	22	64	28	90	39
	8	33	22	61	27	75	33	96	42	134	59
	6	33	29	61	35	93	43	124	56	160	78
	4	33	26	61	33	93	40	124	51	160	72
SECTION B4	14	22	--	27	--	33	--	43	--	60	26
	12	26	--	32	--	39	--	50	22	70	31
	8	33	--	48	21	58	25	75	33	105	46
	6	33	23	61	28	78	34	100	44	140	61
	4	33	21	61	25	78	31	100	40	141	56

NOTE:
1- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES

ANCHOR SCHEDULE

TYPE	DESCRIPTION	EMB	E.D.
E	1/4" CRETE-FLEX SS4 INTO 3000 PSI CONCRETE	1.75	3.0
E1	1/4" CRETE-FLEX SS4 INTO CONCRETE BLOCK	1.25	3.0

NOTES: ED: EDGE DISTANCE SHALL BE BEYOND WALL DRESSING
EMB:EMBEDMENT SHALL BE BEYOND WALL DRESSING
1/4" CRETE-FLEX CAN BE USED IN REPLACE OF 1/4" LAG SCREWS

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JUN 26 2014

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MIAMI DADE APPROVAL:

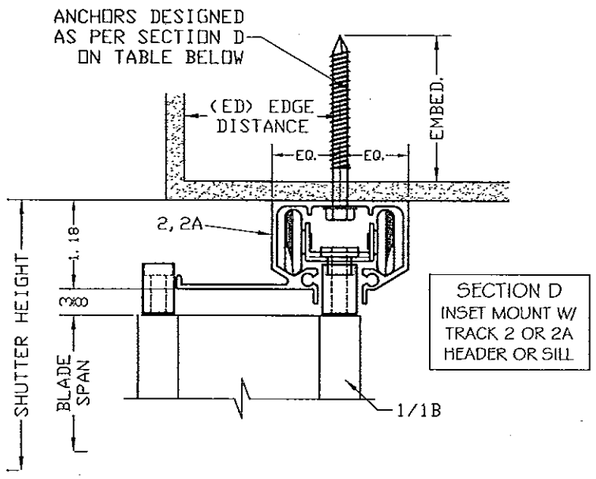
Approved as complying with the Florida Building Code
Date 08/14/2014
NOA# 14-0708.05
Miami Dade Product Control
By

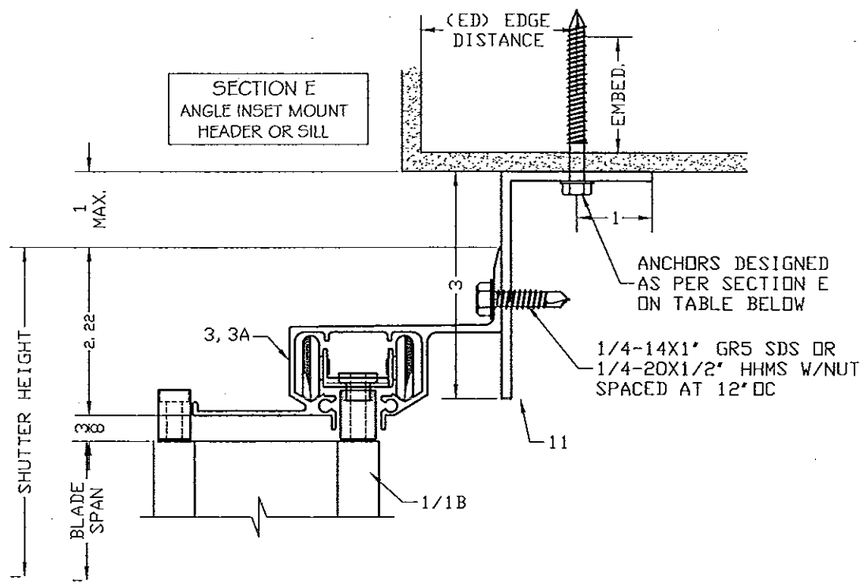
DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

SHEET 4.1 OF 11

DRAWING #: 14-131

TYPICAL SECTIONS D & E AND ANCHOR SCHEDULE





MAX. BLADE SPAN IN INCHES

SEE ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

ANCHORAGE SPACING

		MAXIMUM ANCHORAGE PRESSURE (PSF) BASED ON SPACING IN INCHES ON CENTER																			
		162				132				108				84				60			
	s	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
SECTION D	16	22	27	--	--	27	33	--	--	34	40	20	20	43	52	25	26	60	72	36	36
	12	30	33	--	--	37	44	22	22	45	54	26	27	58	69	34	35	81	97	48	49
	8	33	33	26	27	55	61	32	33	67	80	40	40	86	103	51	52	121	145	71	73
	6	33	33	33	33	61	61	43	44	90	93	53	54	115	124	68	69	160	160	95	97
	4	33	33	33	33	61	61	61	61	93	93	79	81	124	124	102	104	160	160	143	146
SECTION E	11	--	22	--	--	22	26	--	--	27	32	20	22	35	41	26	28	49	58	36	39
	9	22	26	--	--	27	32	20	22	34	39	25	26	43	51	32	34	60	71	44	47
	8	25	30	--	20	31	36	23	24	38	44	28	30	49	57	36	38	68	80	50	53
	6	33	33	25	26	41	48	30	32	50	59	37	39	65	76	48	51	91	106	67	71
	4	33	33	33	33	61	61	45	48	76	89	56	59	97	114	71	76	136	160	100	106

s	162	132	108	84	60
	E	E	E	E	E
16	28	34	41	53	74
12	33	45	55	71	99
8	33	61	83	106	149
6	33	61	93	124	160
4	33	61	93	124	160
11	22	27	33	43	60
9	27	33	41	52	73
8	30	37	46	59	82
6	33	50	61	78	109
4	33	52	64	82	115

NOTE: 1- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES

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JUN 26 2014

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MIAMI DADE APPROVAL:

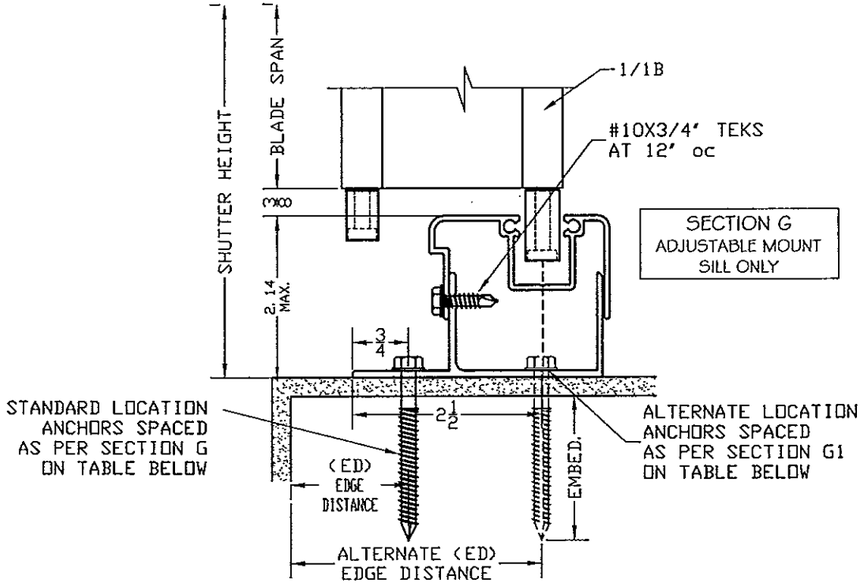
Approved as complying with the Florida Building Code
Date 08/14/2014
NOA# 14-0702.05
Miami Dade Product Control
By

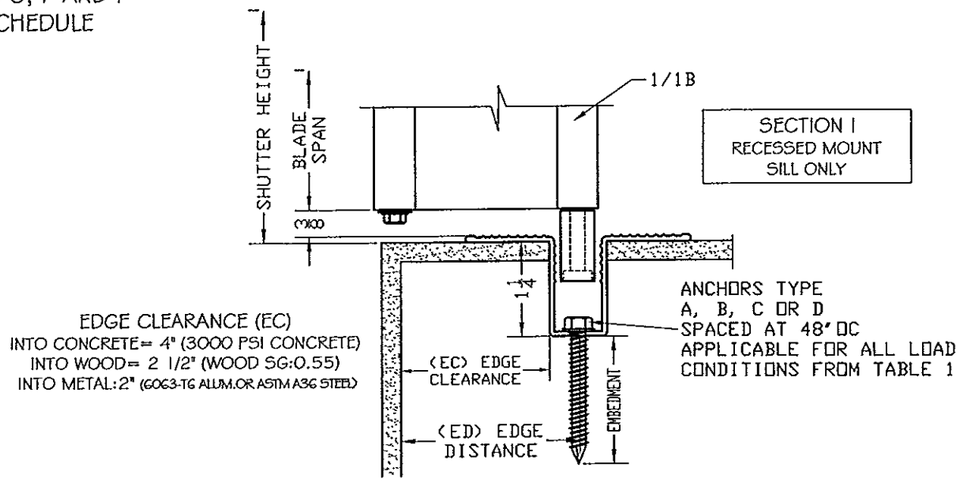
DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

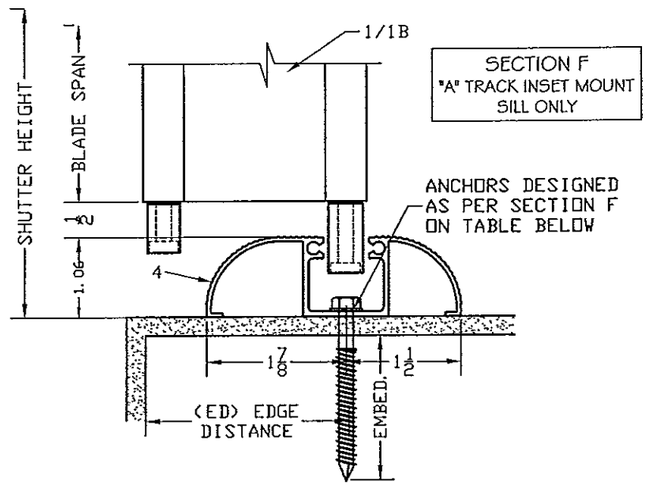
SHEET 5 OF 11

DRAWING #: 14-131

TYPICAL SECTIONS G, F AND I AND ANCHOR SCHEDULE







MAX. BLADE SPAN IN INCHES

SEE ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

ANCHORAGE SPACING

MAXIMUM ANCHORAGE PRESSURE (PSF) BASED ON SPACING IN INCHES ON CENTER

	s	162				132				108				84				60			
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
SECTION G	16	--	--	--	--	--	20	--	--	21	25	--	--	27	32	--	--	38	45	27	20
	12	--	22	--	--	23	27	--	--	28	33	20	--	36	43	25	--	51	60	35	27
	8	28	33	20	--	35	41	24	--	42	50	30	22	54	64	38	28	76	90	53	40
	6	33	33	26	20	46	54	32	24	56	67	39	29	73	86	51	38	102	120	71	53
	4	33	33	33	29	61	61	48	36	85	93	59	44	109	124	76	57	153	160	106	80
SECTIONS G1 OR F	16	28	33	--	--	35	42	--	23	42	51	23	29	55	66	29	37	76	93	41	52
	12	33	33	20	25	46	56	25	31	57	69	30	38	73	88	39	49	102	123	54	69
	8	33	33	30	33	61	61	37	47	85	93	45	57	109	124	58	74	153	160	81	103
	6	33	33	33	33	61	61	49	61	93	93	60	76	124	124	77	98	160	160	108	137
	4	33	33	33	33	61	61	61	61	93	93	90	93	124	124	116	124	160	160	160	160

s	162 E	132 E	108 E	84 E	60 E
16	--	21	26	33	46
12	23	28	34	44	62
8	33	42	51	66	92
6	33	56	68	88	123
4	33	59	72	93	130
16	33	43	53	68	95
12	33	58	70	90	127
8	33	61	93	124	160
6	33	61	93	124	160
4	33	61	93	124	160

NOTE: 1- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES

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JUN 2 6 2014

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MIAMI DADE APPROVAL:

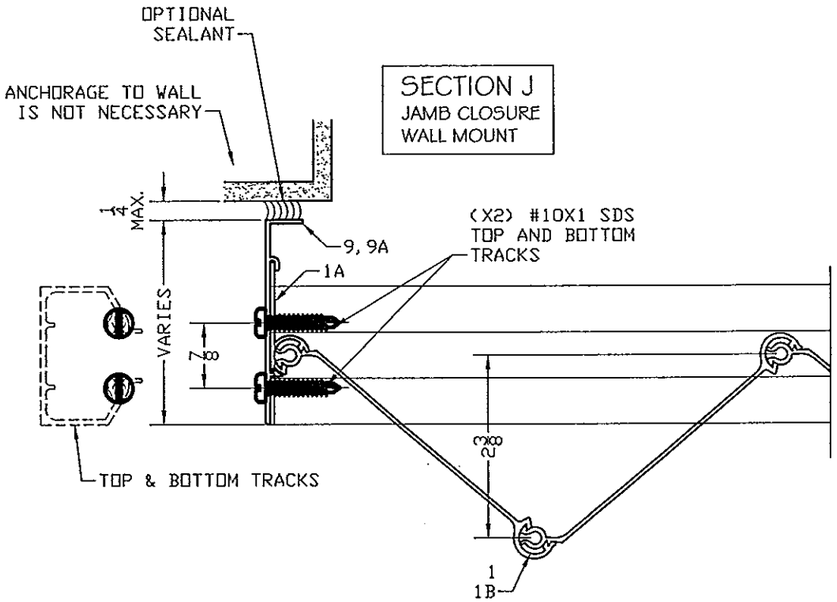
Approved as complying with the Florida Building Code
Date 08/14/2014
NOA# 14-0108.05
Miami Dade Product Control
By

DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

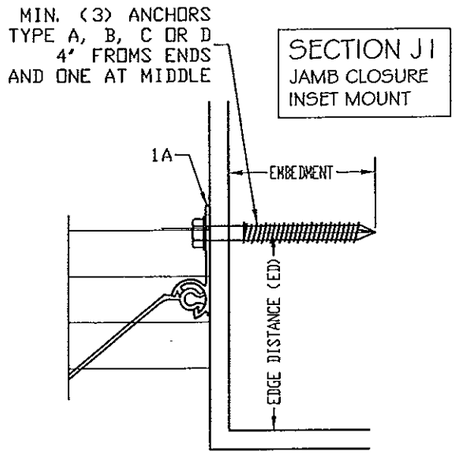
SHEET 6 OF 11

DRAWING #: 14-131

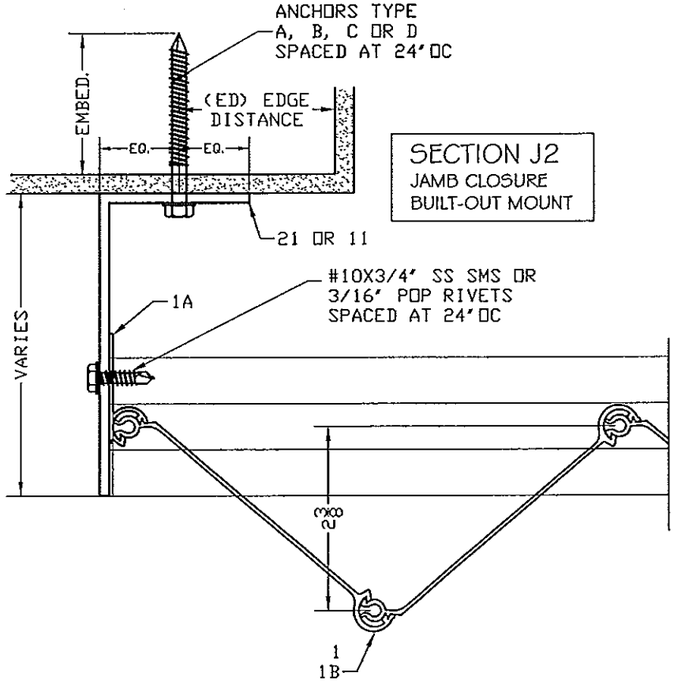
TYPICAL HORIZONTAL
JAMB AND CORNER SECTIONS J



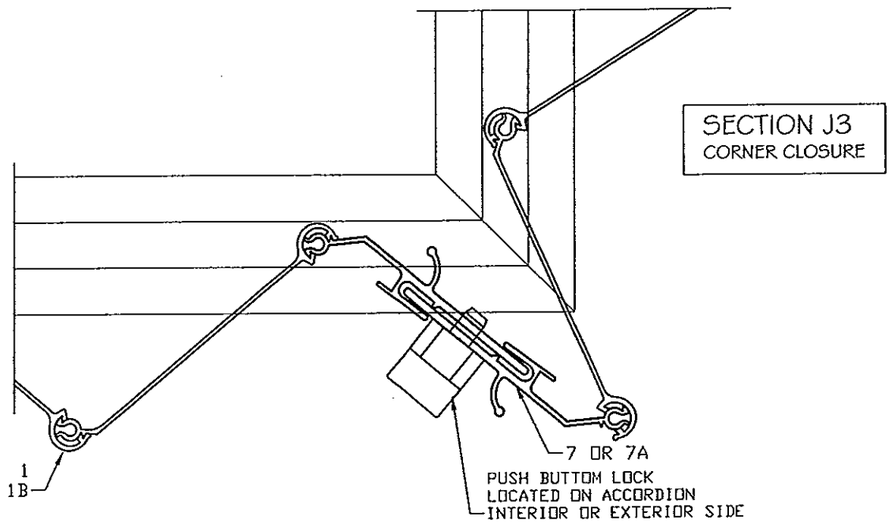
SECTION J
JAMB CLOSURE
WALL MOUNT



SECTION J1
JAMB CLOSURE
INSET MOUNT



SECTION J2
JAMB CLOSURE
BUILT-OUT MOUNT



SECTION J3
CORNER CLOSURE

MANUFACTURER:

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By

DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

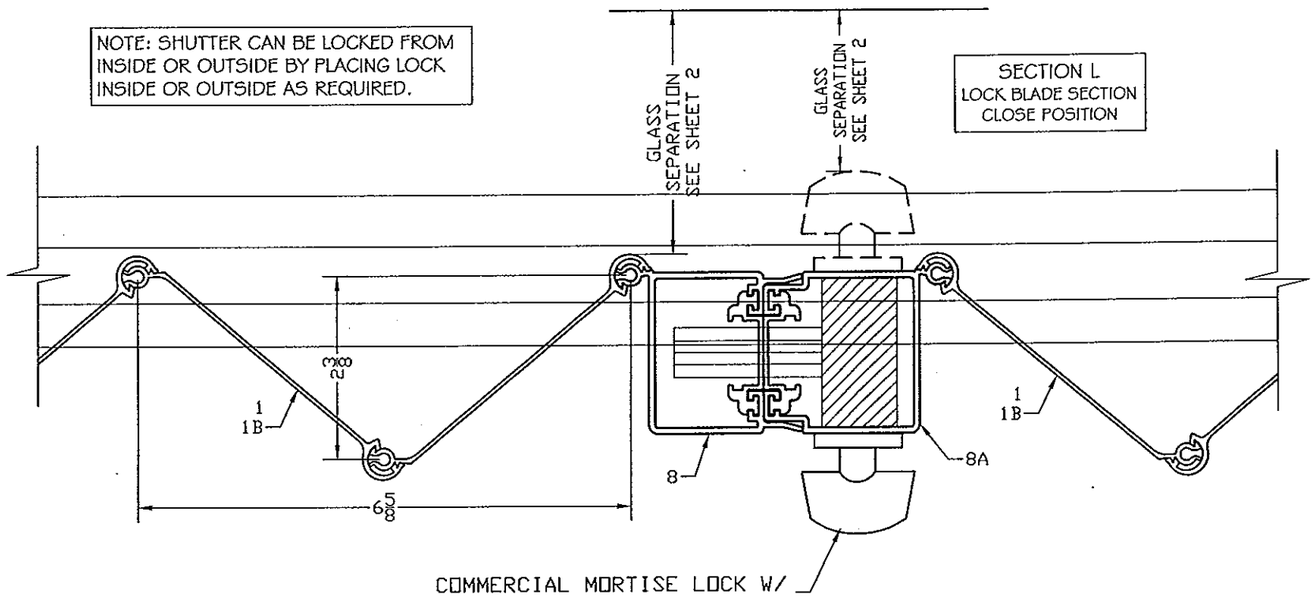
SHEET 7 OF 11

DRAWING #: 14-131

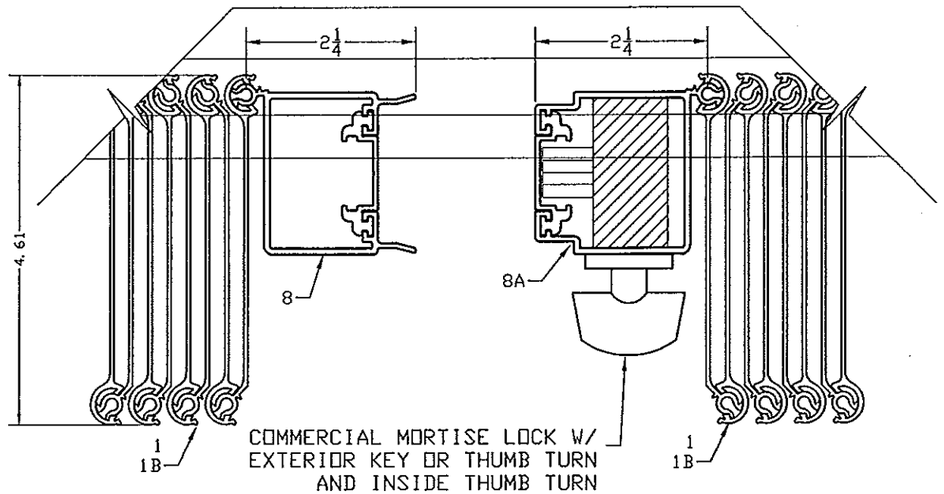
TYPICAL HORIZONTAL SECTIONS
HD LOCK SECTIONS L

NOTE: SHUTTER CAN BE LOCKED FROM INSIDE OR OUTSIDE BY PLACING LOCK INSIDE OR OUTSIDE AS REQUIRED.

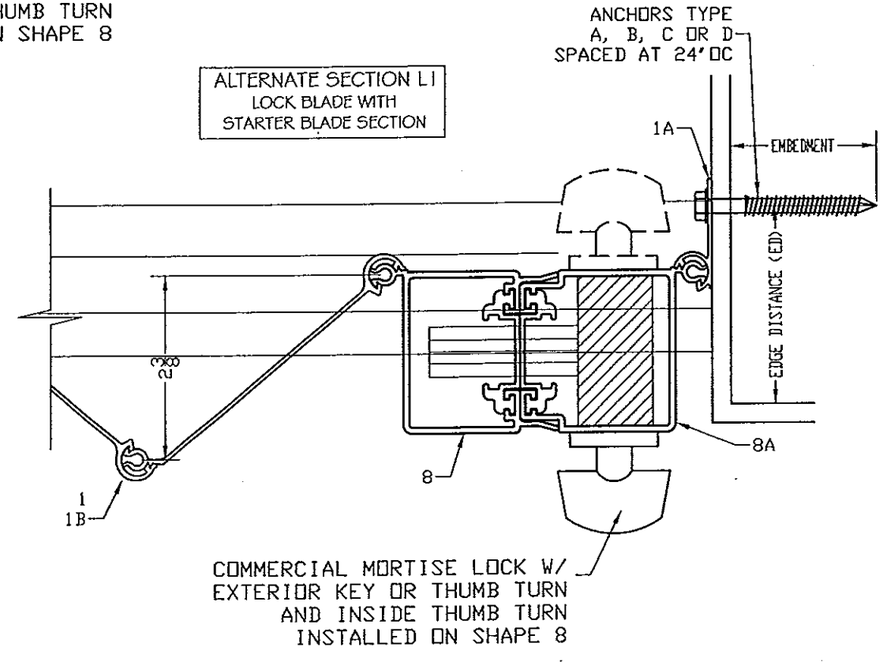
SECTION L
LOCK BLADE SECTION
CLOSE POSITION



SECTION L
LOCK BLADE SECTION
OPEN POSITION



ALTERNATE SECTION L1
LOCK BLADE WITH
STARTER BLADE SECTION



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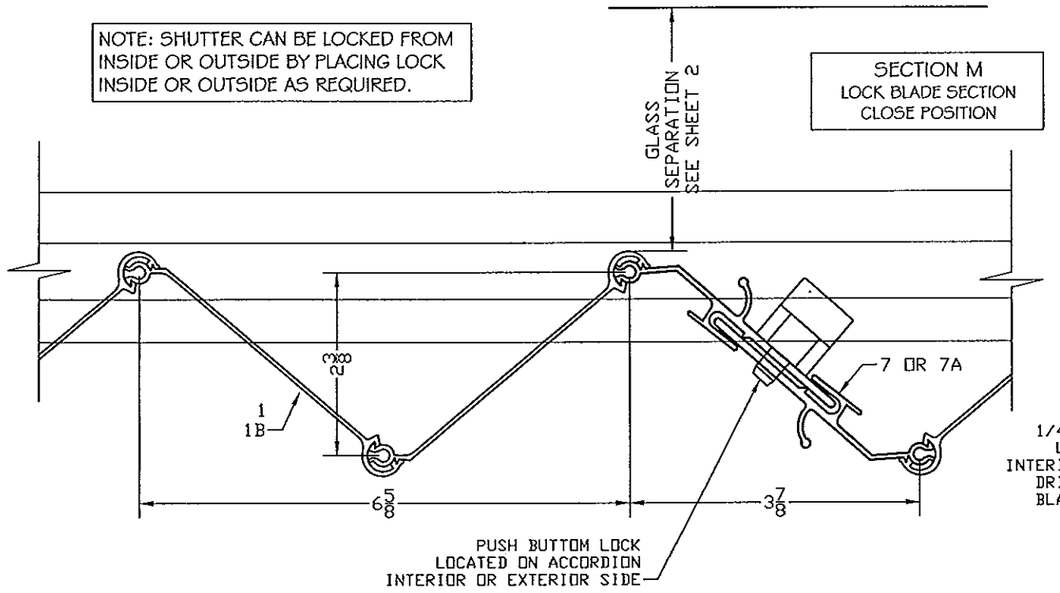
Miami Dade Product Control
By

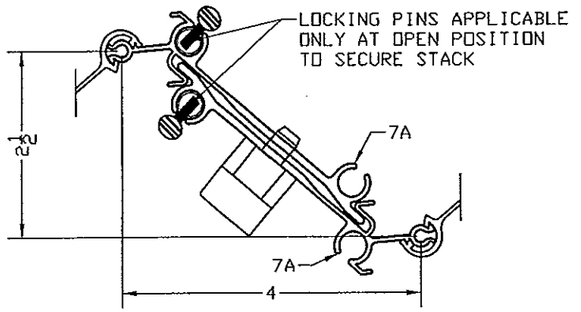
DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

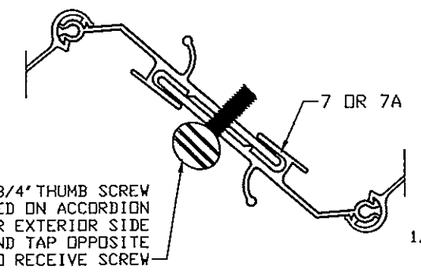
TYPICAL HORIZONTAL UNIMATE LOCK SECTIONS M

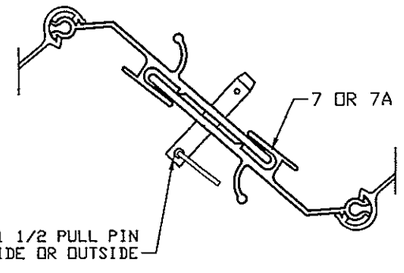
NOTE: SHUTTER CAN BE LOCKED FROM INSIDE OR OUTSIDE BY PLACING LOCK INSIDE OR OUTSIDE AS REQUIRED.

SECTION M
LOCK BLADE SECTION
CLOSE POSITION

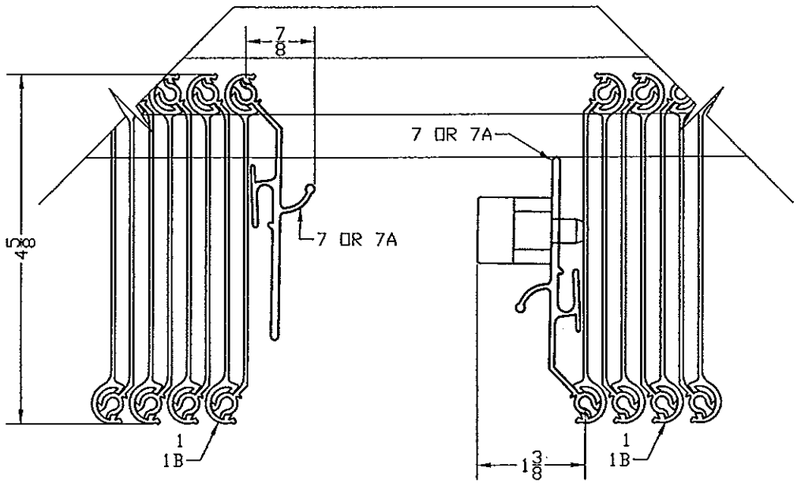




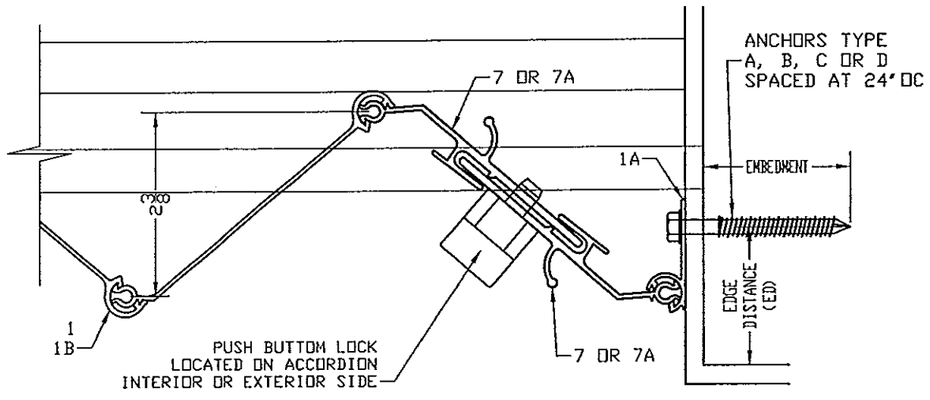




SECTION M
LOCK BLADE SECTION
OPEN POSITION



ALTERNATE SECTION M1
LOCK BLADE WITH
STARTER BLADE SECTION



MANUFACTURER:

JUST SHUTTER IT INC

1341 SW S. MACEDO BLVD
PORT ST. LUCIE
FLORIDA 34983
Tel.: (772) 201-9919
Fax: (772) 673-0588
WWW.JUSTSHUTTERIT.COM

PRODUCT:

SUPERNOVA
EXTRUDED ALUMINUM
ACCORDION SHUTTER
LARGE & SMALL
IMPACTED RATED

ENGINEERING:

ENGCO INC. CA8116
5595 ORANGE DR. 201
DAVIE, FL. 33314
Tel.: (954) 585-0304
ENGCO@AOL.COM

PEDRO M. DE FIGUEIREDO
LICENSE
No. 52609
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JUN 2 6 2014

Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI DADE APPROVAL:

Approved as complying with the Florida Building Code
Date 08/12/2014
NOA# 14-0108.05
Miami Dade Product Control
By

DATE: 06/26/2014
SCALE: NA
DESIGN BY: PPMF

SHEET	DRAWING #:
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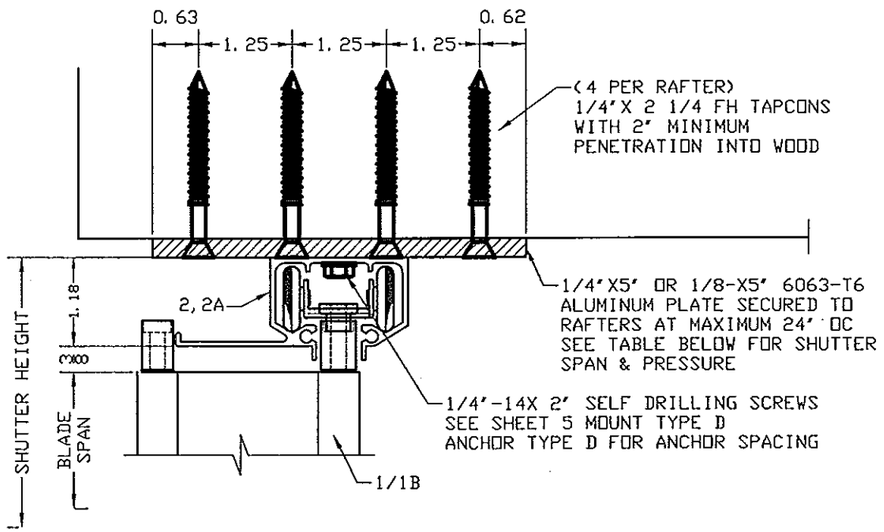
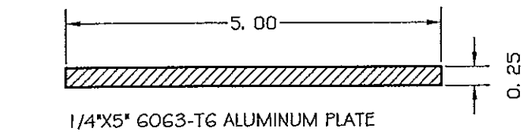
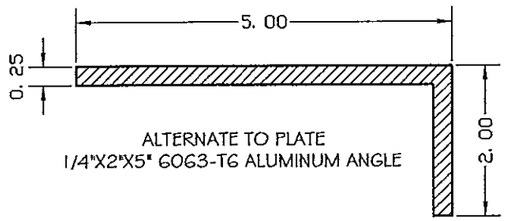
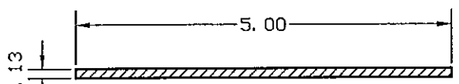
SECTION X

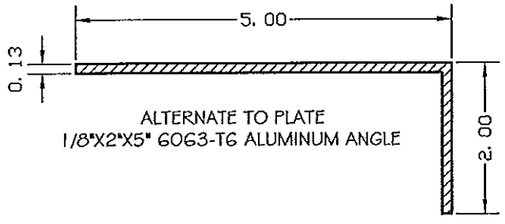
TRACK 2 OR 2A INSET MOUNT
SECURED TO AN ALUMINUM PLATE
BETWEEN WOOD TRUSSES











ALLOWABLE DESIGNED PRESSURES
FOR SECTION X WITH 1/4" ALUMINUM PLATE

BLADE SPAN	MAXIMUM DESIGNED PRESSURE (PSF)	
(IN)	BLADE 1	BLADE 1B
60	±159	±159
72	±132	±132
84	±113	±113
90	±106	±106
108	± 88	± 88
126	± 68	± 68
132	± 62	± 61
144	+48, -52	+45,-47
162	+30, -40	+28,-33

ALLOWABLE DESIGNED PRESSURES
FOR SECTION X WITH 1/8" ALUMINUM PLATE

BLADE SPAN	MAXIMUM DESIGNED PRESSURE (PSF)	
(IN)	BLADE 1	BLADE 1B
60	±99	±99
72	±82	±82
84	±71	±71
90	±66	±66
108	±55	±55
126	±47	±47
132	±45	±45
144	±41	±41
162	±30	+28, -30

NOTE: 1- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES

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JUN 26 2014

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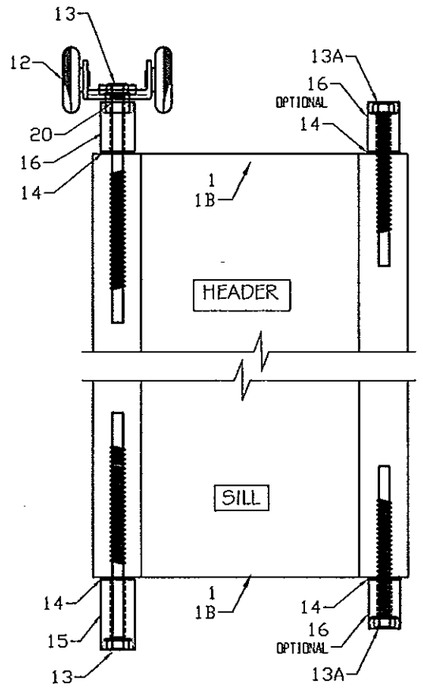
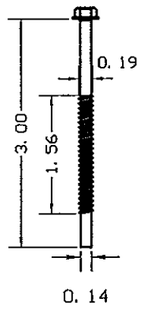
DESIGN BY: PPMF

SHEET 9.1 OF 11

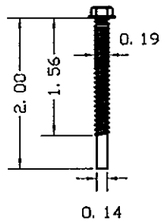
DRAWING #: 14-131

TYPICAL BLADE ASSEMBLY

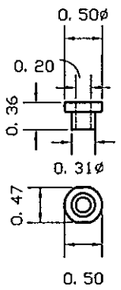




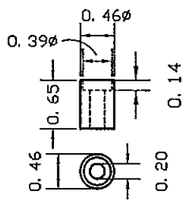
13- #10X3" HH
BLADE SCREW
410 STAINLESS STEEL



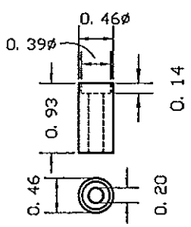
13A- #10X2" HH
BLADE SCREW
410 STAINLESS STEEL



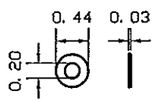
20- 1/2" Ø X 0.36"
NYLON WHEEL
SPACER



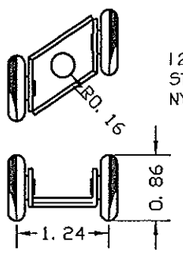
16- .46" Ø X.65"
NYLON WHEEL BUSHING



15- .46" Ø X.93"
NYLON BUSHING



14- 0.03" X 0.44" Ø
STAINLESS STEEL
FLAT WASHER



12- WHEEL CARRIER
STAMPED SS WITH
NYLON WHEELS

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	MANUFACTURER
1	BLADE	6063-T6 ALUMINUM	JUST SHUTTER IT INC
1A	STARTER BLADE	6063-T6 ALUMINUM	JUST SHUTTER IT INC
1B	COMPOSITE BLADE	6063-T6 / LEXAN	JUST SHUTTER IT INC
1C	FLOATING STACK BLADE	6063-T6 ALUMINUM	JUST SHUTTER IT INC
2	CEILING TRACK	6063-T6 ALUMINUM	JUST SHUTTER IT INC
3	1" WALL MOUNT TRACK	6063-T6 ALUMINUM	JUST SHUTTER IT INC
3A	2" WALL MOUNT TRACK	6063-T6 ALUMINUM	JUST SHUTTER IT INC
4	"A" TRACK	6063-T6 ALUMINUM	JUST SHUTTER IT INC
5	RECESSED TRACK	6063-T6 ALUMINUM	JUST SHUTTER IT INC
6	ADJUSTABLE FEMALE TRACK	6063-T6 ALUMINUM	JUST SHUTTER IT INC
6A	ADJUSTABLE MALE TRACK	6063-T6 ALUMINUM	JUST SHUTTER IT INC
7	UNIMATE LOCK BLADE W/O LP	6063-T6 ALUMINUM	JUST SHUTTER IT INC
7A	UNIMATE LOCK BLADE W/ LP	6063-T6 ALUMINUM	JUST SHUTTER IT INC
8	HD FEMALE LOCK BLADE	6063-T6 ALUMINUM	JUST SHUTTER IT INC
8A	HD MALE LOCK BLADE	6063-T6 ALUMINUM	JUST SHUTTER IT INC
8B	HD ADAPTOR FILLER	6063-T6 ALUMINUM	JUST SHUTTER IT INC
9	1" JAMB CLOSURE	6063-T6 ALUMINUM	JUST SHUTTER IT INC
9A	2" JAMB CLOSURE	6063-T6 ALUMINUM	JUST SHUTTER IT INC
10	1/4-2X ANGLE	6063-T6 ALUMINUM	JUST SHUTTER IT INC
11	1/8-2X ANGLE	6063-T6 ALUMINUM	JUST SHUTTER IT INC
12	WHEEL CARRIER	PLATED STEEL/ NYLON	JUST SHUTTER IT INC
13	#10X3" HH BLADE SCREW	410 STAINLESS STEEL	JUST SHUTTER IT INC
13A	#10X2" HH BLADE SCREW	410 STAINLESS STEEL	JUST SHUTTER IT INC
14	0.44" DIAM. FLAT WASHER	STAINLESS STEEL	JUST SHUTTER IT INC
15	0.46" Ø x 0.93" BUSHING	NYLON	JUST SHUTTER IT INC
16	0.46" Ø x 0.65" WHEEL BUSHING	NYLON	JUST SHUTTER IT INC
19	PUSH-BUTTOM LOCK		
20	1/2"x 3/8" WHEEL SPACER	NYLON	JUST SHUTTER IT INC
21	1/16"-1X2, 1X2.5, 1X4 , 1.5X3 ANGLES	6063-T5 ALUMINUM	JUST SHUTTER IT INC

ANCHOR SCHEDULE

TYPE	DESCRIPTION	EMB	E.D.
A	1/4" ITW TAPCON INTO 3000 PSI CONCRETE	1.75	3.0
	1/4" ELCO ULTRACON INTO 2700 PSI CONCRETE	1.75	2.5
A1	1/4" ITW TAPCON INTO CONCRETE BLOCK	1.25	3.0
	1/4" ELCO ULTRACON INTO CONCRETE BLOCK	1.25	2.5
B	1/4-20X1 ALL POINTS SOLID-SET INTO 3.0 KSI CONCRETE	0.875	3.0
B1	1/4-20X1 ALL POINTS SOLID-SET INTO CONCRETE BLOCK	0.875	3.0
C	1/4" WOOD LAG SCREW INTO G=.55 WOOD	1.50	0.75
D	1/4"-14 SELF DRILLING SCREWS INTO 1/8" STEEL OR ALUMINUM	---	0.75
E	1/4" CRETE-FLEX SS4 INTO 3000 PSI CONCRETE	1.75	3.0
E1	1/4" CRETE-FLEX SS4 INTO CONCRETE BLOCK (2000 PSI)	1.25	3.0

NOTES: ED: EDGE DISTANCE SHALL BE BEYOND WALL DRESSING
EMB:EMBEDMENT SHALL BE BEYOND WALL DRESSING
1/4" TAPCON, 1/4" CRETE-FLEX, #14 WOOD SCREWS CAN BE USED IN REPLACE OF 1/4" LAG SCREWS

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SHEET
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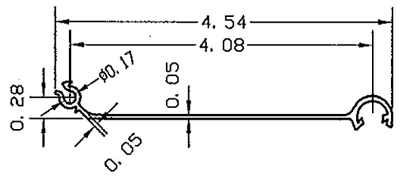
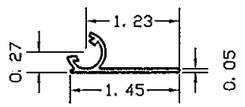
14-131

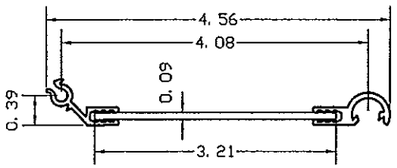
SHUTTER COMPONENTS



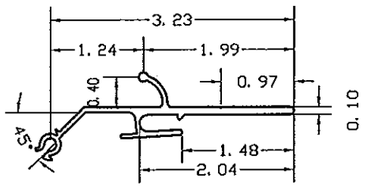
1- 0.05" ACCORDION BLADE



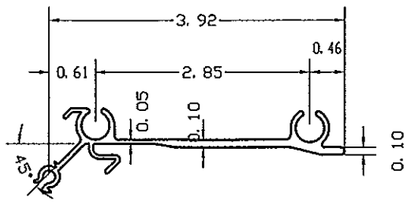
1A- STARTER BLADE



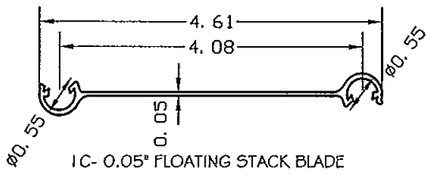
1B- COMPOSITE
ALUMINUM / LEXAN BLADE
LEXAN POLYCARBONATE APPROVED
AS PER NOA 13-0717.01
XL102UV



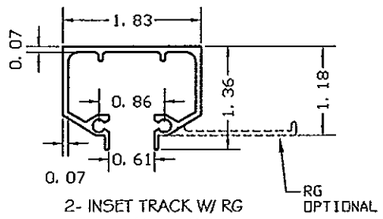
7- UNIMATE W/O LP
LOCKING BLADES



7A- UNIMATE W/ LP
LOCKING BLADES

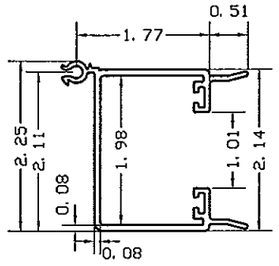


1C- 0.05" FLOATING STACK BLADE

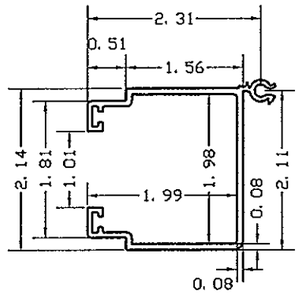


2- INSET TRACK W/ RG
HEADER / SILL MOUNT

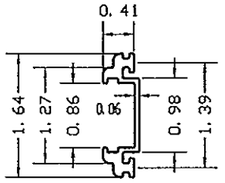
2.1- INSET TRACK W/O RG
HEADER / SILL MOUNT



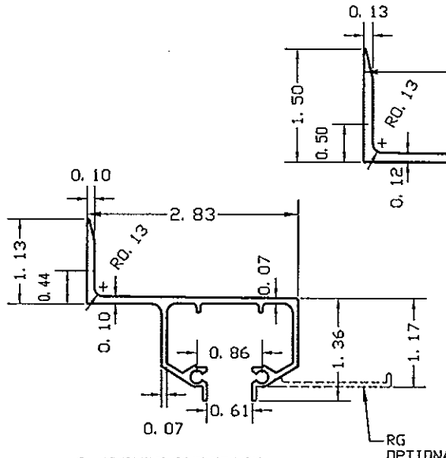
8- FEMALE HD
LOCKING BLADE



8A- MALE HD
LOCKING BLADE

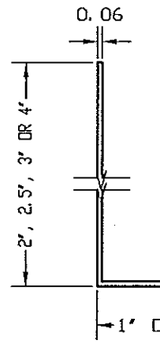


8B- ADAPTOR FILLER
USE WITH 8 AND 8A

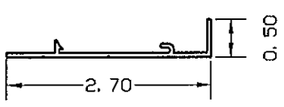


3- 1" BUILT-OUT TRACK
HEADER / SILL MOUNT

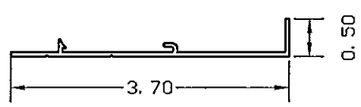
3.1- 1" BO TRACK W/O
RAIN GUARD (RG)



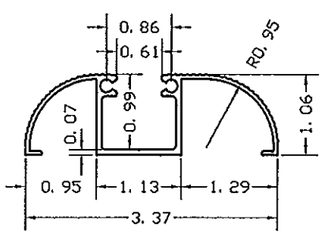
21- 1/16" THICK ANGLES
6063-T5 ALUMINUM ALLOY
SIDE CLOSURE USE ONLY



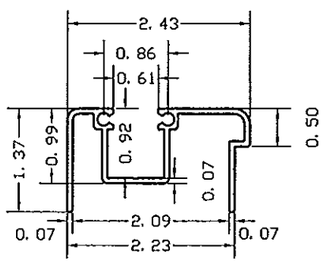
9- 1" JAMB CLOSURE



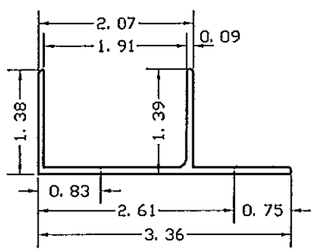
9A- 2" JAMB CLOSURE



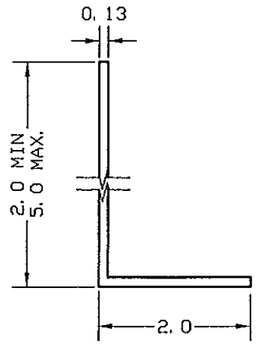
4- "A" TRACK
SILL MOUNT ONLY



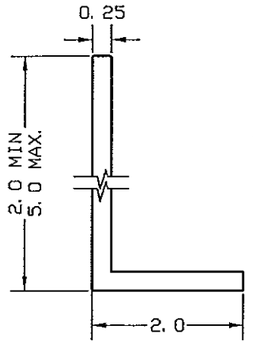
6- ADJUSTABLE FEMALE
HEADER/ SILL MOUNT



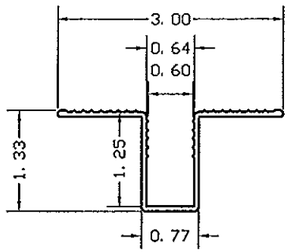
6A- ADJUSTABLE MALE
HEADER/ SILL MOUNT



11- 1/8" THICK ANGLES
6063-T6 ALUMINUM ALLOY



10- 1/4" THICK ANGLES
6063-T6 ALUMINUM ALLOY



5- RECESSED TRACK
SILL MOUNT ONLY

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