



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov

Rolsafe LLC
12801 Commonwealth Drive #7
Fort Myers, Florida 33913

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: 53 mm Herculean Aluminum Rolling Wall

APPROVAL DOCUMENT: Drawing No. 09-169.1, titled "53 mm Herculean Aluminum Rolling Wall", sheets 1 through 8 of 8, prepared by EngCo, Inc., dated May 05, 2010, signed and sealed by Pedro De Figueiredo, P.E., 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 Division.

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 and the 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, 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.**



Helmy A. Makar
 06/02/2010

NOA No. 10-0104.04
Expiration Date: 06/02/2015
Approval Date: 06/02/2010

Rolsafe LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 09-169.1, titled "53 mm Herculean Aluminum Rolling Wall", sheets 1 through 8 of 8, prepared by EngCo, Inc., dated May 05, 2010, signed and sealed by Pedro De Figueiredo, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Uniform Static Air Pressure Test, and Cyclic Wind Pressure Test of 53 mm Herculean Aluminum Rolling Wall, prepared by Hurricane Testing Laboratory LLC, Report No. 0468-0308-08 & 0468-1104-07, dated September 23, 2009, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

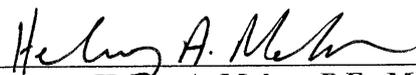
1. *Slat Analysis and Anchor calculation, dated September 25, 2009, 28 sheets, prepared by EngCo Inc., signed and sealed by Pedro De Figueiredo, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *Marked-up drawings from Hurricane Testing Laboratory LLC, Report No. 0468-0308-08 & 0468-1104-07, dated September 23, 2009, signed and sealed by Vinu J. Abraham, P.E.*



Henry A. Makar, P.E., M.S.
Senior Product Control Examiner
NOA No. 10-0104.04
Expiration Date: 06/02/2015
Approval Date: 06/02/2010

DESIGN SCHEDULE	
COMPONENT	SHEET
SLAT ALLOWABLE PRESSURE - TABLE 1	1
GLASS SEPARATION - TABLE 1	1
TRACK REACTION - TABLE 2	5
TRACK ANCHORAGE - TABLE 2	5
MULLION	6 & 7

- NOTES:
 1- ALLOWABLE DESIGNED PRESSURE ARE FUNCTION OF THE LOWEST ALLOWABLE DESIGNED LOAD FOR EACH COMPONENT (SLATS, ANCHORAGE & MULLIONS)
 2- DESIGNED PRESSURES MUST NOT EXCEED 150 PSF.
 3- FINISHED WIDTH (FW) MUST NOT EXCEED 270-1/4".

GENERAL NOTES: (FLORIDA BUILDING CODE 2007 - HVHZ & non HVHZ)

1- DEFINITION: THIS PRODUCT IS A ROLLING BARRIER WALL; DESIGNED, CONSTRUCTED AND ERECTED TO EASILY ENCLOSE AN AREA, PROVIDING PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.

2- POSTING: A PERMANENT LABEL SHALL BE PROVIDED AS PER FBC 2007 SECTION 1714.8.

2.1- LOCATION: SHALL BE PLACED ON THE BOTTOM OF THE HOOD FACING THE EXTERIOR OR OUTSIDE OR ON THE BOTTOM SLAT FACING THE EXTERIOR OR OUTSIDE

2.2- INFORMATION STATING THE FOLLOWING:

"ROLSAFE
 FORT MYERS - FLORIDA
 MIAMI-DADE COUNTY PRODUCT APPROVED"

3- LIMITATION: PRODUCT MUST BE SET AWAY, A DISTANCE AS SPECIFIED ON TABLE 1, FROM GLAZING AREAS TO BE PROTECTED

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

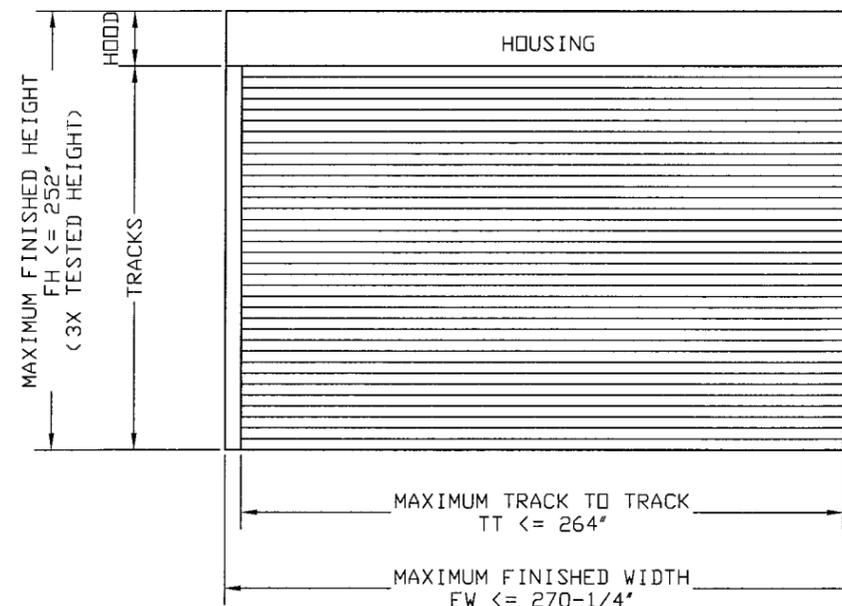
7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL.

**TABLE 1
 ALLOWABLE DESIGNED RATING (PSF)**

FW MAX. (IN)	TT MAX. (IN)	DESIGN RATING MOUNT TYPE		TOTAL GLASS SEPARATION (GS) INCHES
		WALL	INSET	
126.25	120	150	150	7 1/4"
156.25	150	110	110	7 1/4"
186.25	180	70	70	8"
228.25	222	70	68	8"
270.25	264	70	65	11 1/4"

- NOTES:
 1- FOR MOUNT COMBINATION WALL/INSET USE INSET MOUNT PRESSURES
 2- FOR ALTERNATE INSET USE INSET MOUNT PRESSURES



CODE AND STANDARD COMPLIANCE:
 FLORIDA BUILDING CODE 2007 (HVHZ & non HVHZ)
 TAS 201, 202, 203 (LARGE & SMALL MISSILE)

MANUFACTURER:

RoISafe

12801 COMMONWEALTH
 DRIVE - SUITE 2
 FORT MYERS, FL. 33913
 Phone: (239) 225-2487
 Fax: (239) 561-0780

PRODUCT:

53 mm Herculean
 IMPACT ROLLING WALL
 LARGE & SMALL MISSILE
 IMPACT RATED

Engineering:

EngCo Inc.

CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, FL. 33313
 ENGCO@AOL.COM



PK DRAFTING & MORE

MIAMI-DADE BCCO:

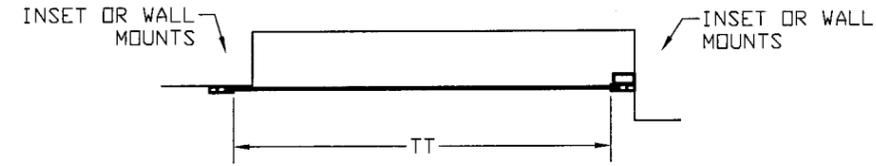
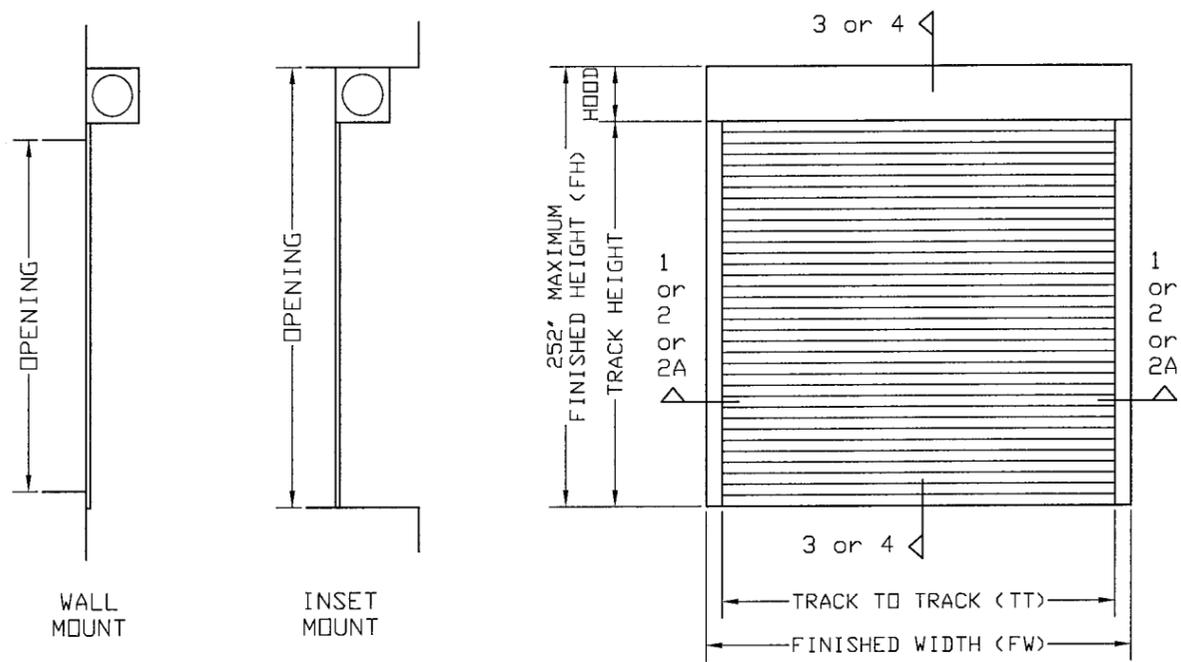
Approved as complying with the
 Florida Building Code
 Date 06/02/2010
 NOA# 10-0104-04
 Miami Dade Product Control
 Division
 By *Helena Adkins*

Date: 05/05/2010
 Scale: NA
 Design by: PPMF

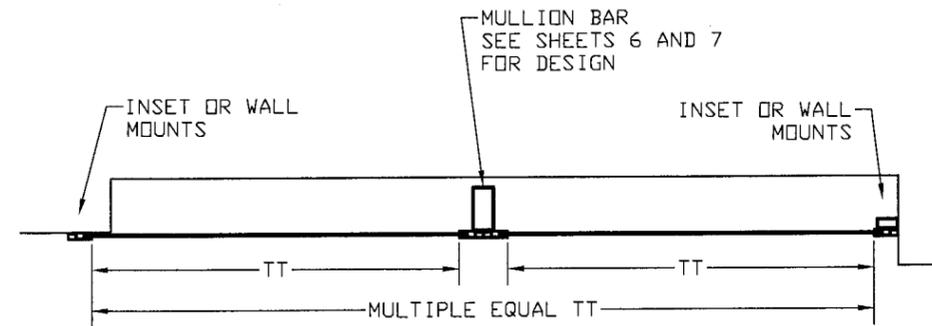
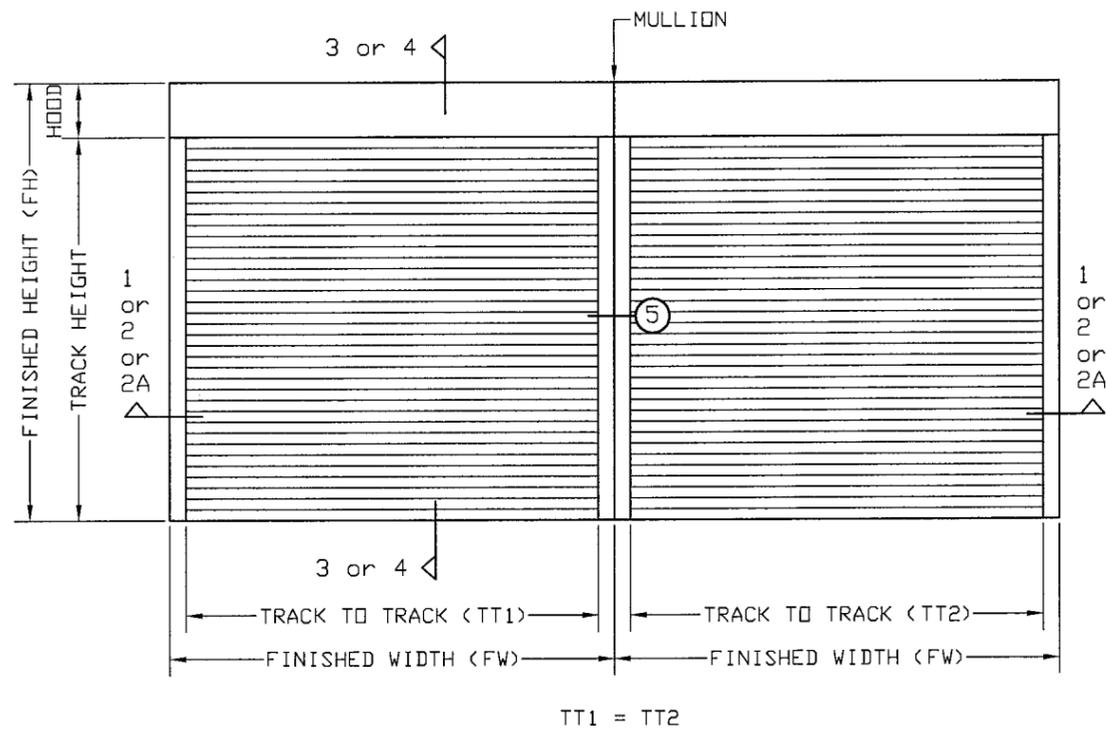
Drawing Number
09-169.1

SHEET
 1 of 8

TYPICAL SINGLE UNIT ELEVATION



TYPICAL MULTIPLE UNITS ELEVATION



MANUFACTURER:

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12801 COMMONWEALTH DRIVE - SUITE 2
FORT MYERS, FL. 33913
Phone: (239) 225-2487
Fax: (239) 561-0780

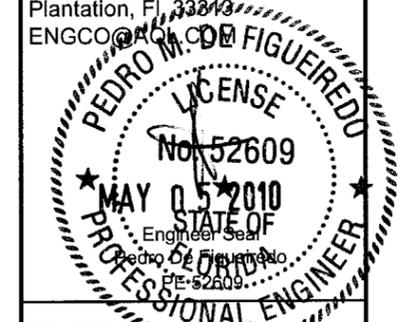
PRODUCT:

53 mm Herculean
IMPACT ROLLING WALL
LARGE & SMALL MISSILE
IMPACT RATED

Engineering:

EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. 104
Plantation, FL 33249
ENGCO@AOL.COM



DRAFTING:

PK DRAFTING & MORE

MIAMI-DADE BCCO:

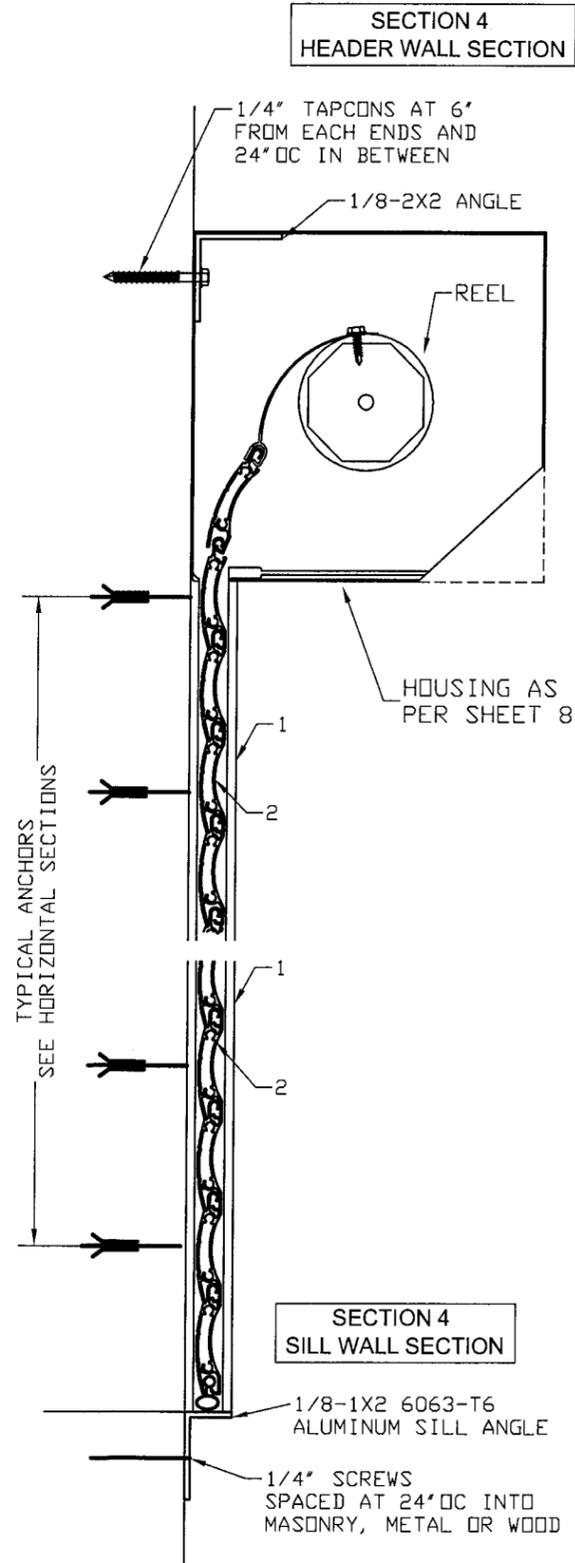
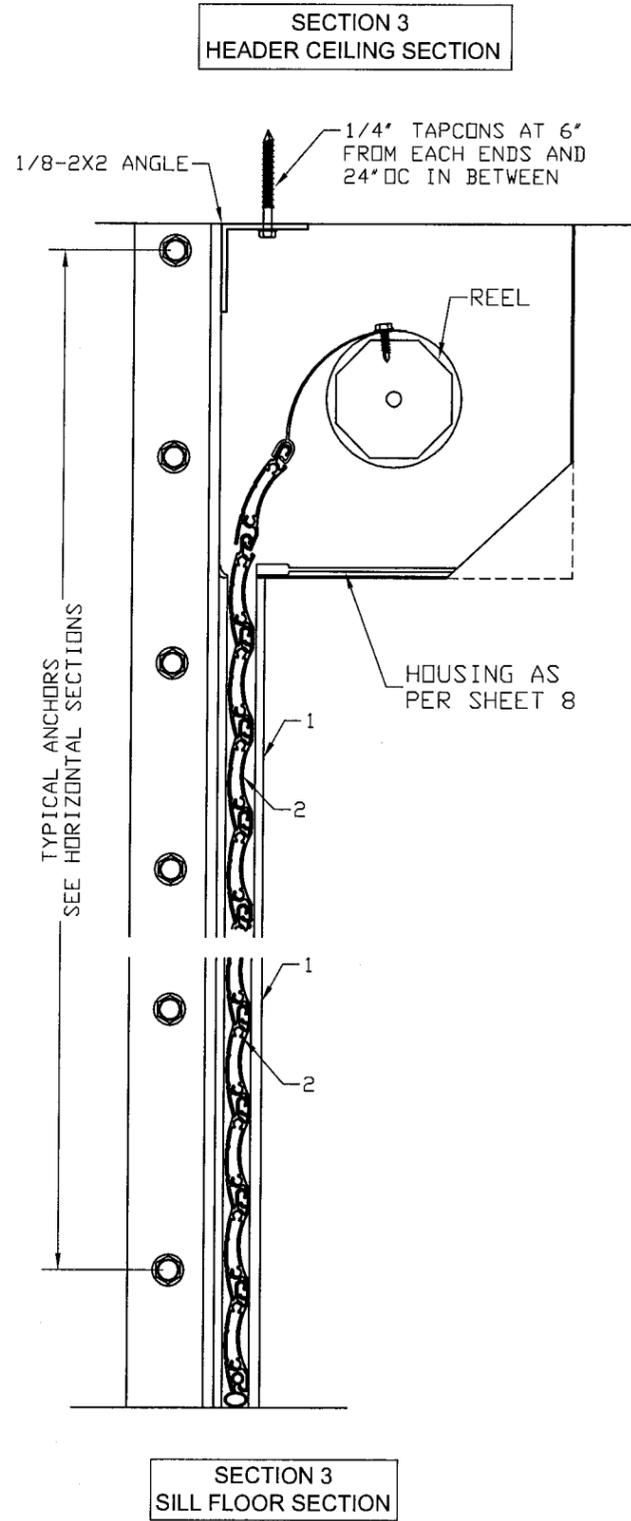
Approved as complying with the
Florida Building Code
Date *06/02/2010*
NOA# *10-0164.04*
Miami Dade Product Control
Division
By *Hedberg H. Miller*

Date: 05/05/2010
Scale: NA
Design by: PPMF

Drawing Number
09-169.1

SHEET
2 of 8

TYPICAL VERTICAL SECTIONS



MANUFACTURER:
RoISafe
 12801 COMMONWEALTH DRIVE - SUITE 2
 FORT MYERS, FL. 33913
 Phone: (239) 225-2487
 Fax: (239) 561-0780

PRODUCT:
53 mm Herculean
 IMPACT ROLLING WALL
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 IMPACT RATED

Engineering:
EngCo Inc.
 CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, Fl. 33313
 ENGCO@AOL.COM



DRAFTING:
PK DRAFTING & MORE

MIAMI-DADE BCCO:

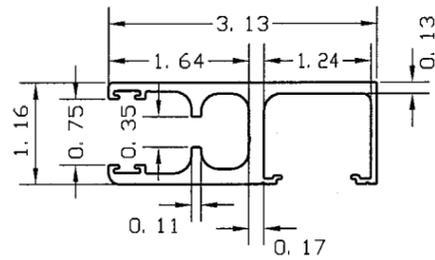
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 Florida Building Code
 Date 06/02/2010
 NOA# 16-0104-04
 Miami Dade Product Control
 Division
 By Helmy A. M. L.

Date: 05/05/2010
 Scale: NA
 Design by: PPMF

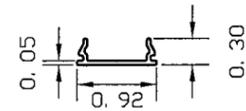
Drawing Number
09-169.1

SHEET
 3 of 8

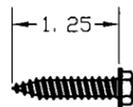
PRODUCT COMPONENTS



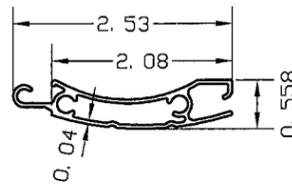
1- HD LARGE BOX TRACK
ALTERNATE TRACK
6005-T5 ALUMINUM



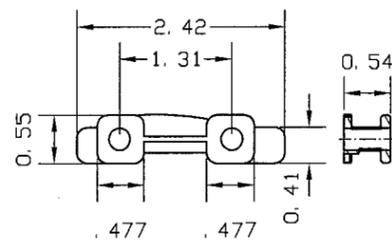
1A- TRACK SNAP COVER
THIS PART IS OPTIONAL
RIC-002 - 6063-T5



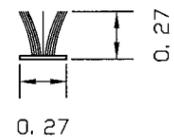
3- RETAINER SCREW
#14X1-1/4 HH SMS
18-8 STAINLESS STEEL



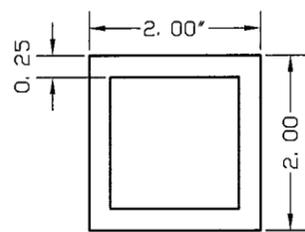
2- 53mm SLAT
6063-T6 ALUMINUM



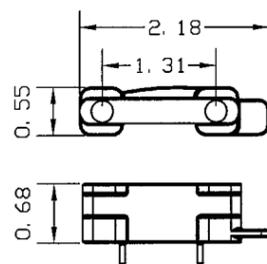
4- SLAT RETAINER
NYLON 66



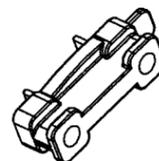
5- PILE WEATHER
STRIPPING
POLYPROPYLENE



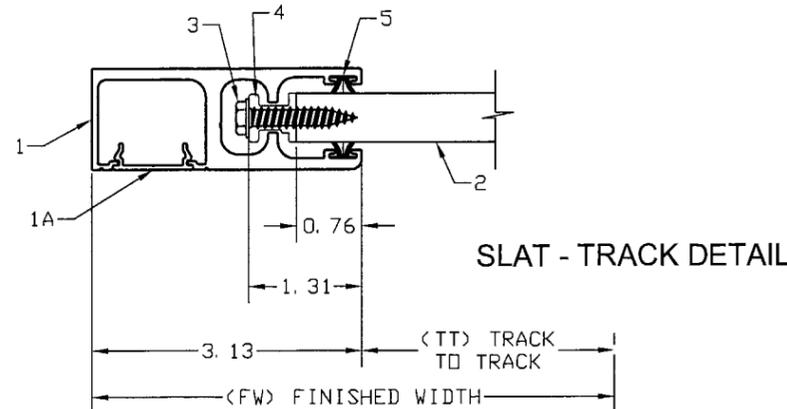
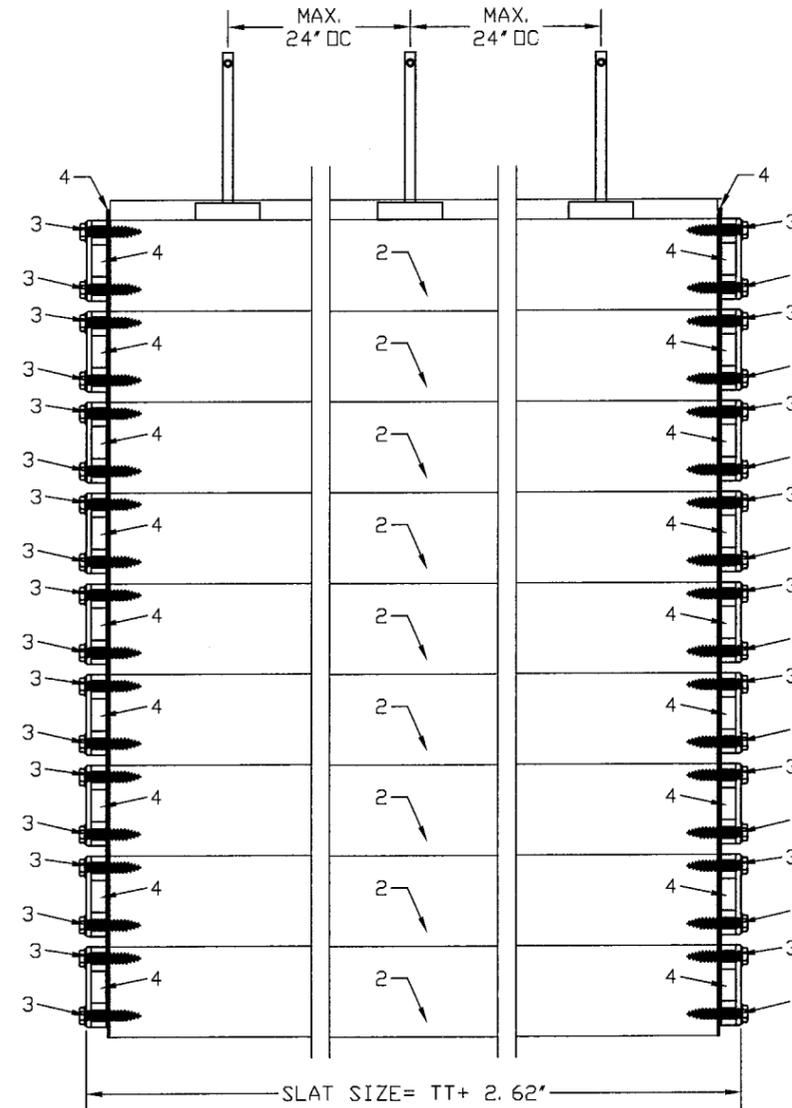
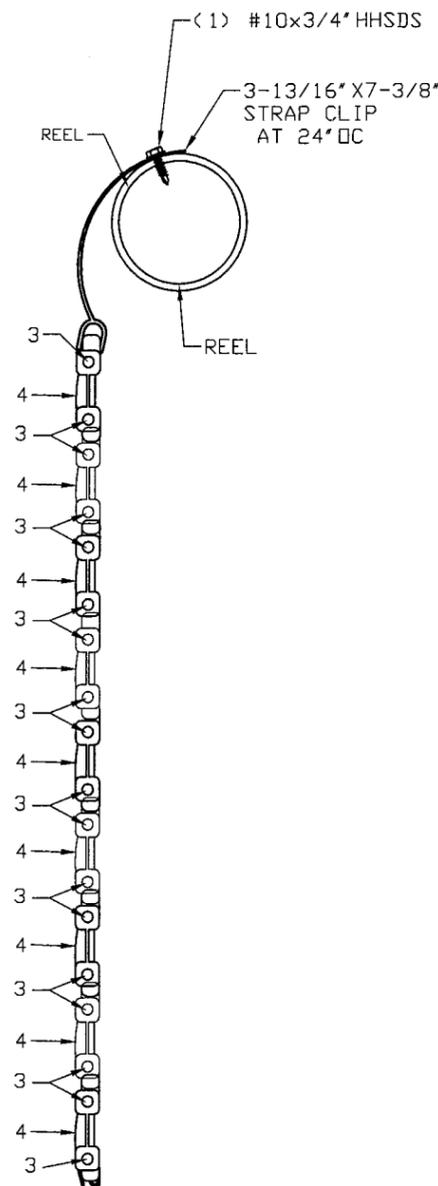
6- 1/4-2x2
ALUMINUM TUBE
6063-T6 ALUMINUM



4A- ALTERNATE
SLAT RETAINER
NYLON 66



SLAT END RETENTION LAY-OUT



MANUFACTURER:

RoISafe

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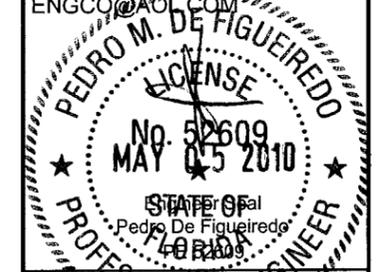
PRODUCT:

53 mm Herculean
IMPACT ROLLING WALL
LARGE & SMALL MISSILE
IMPACT RATED

Engineering:

EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. 104
Plantation, Fl. 33313
ENGCO@AOL.COM



DRAFTING:

PK DRAFTING & MORE

MIAMI-DADE BCCO:

Approved as complying with the
Florida Building Code
Date 06/02/2010
NOA# 10-0104.02
Miami Dade Product Control
Division
By *Helmy A. M...*

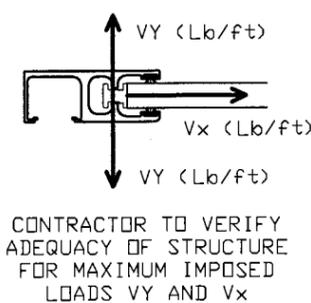
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Design by: PPMF

Drawing Number
09-169.1

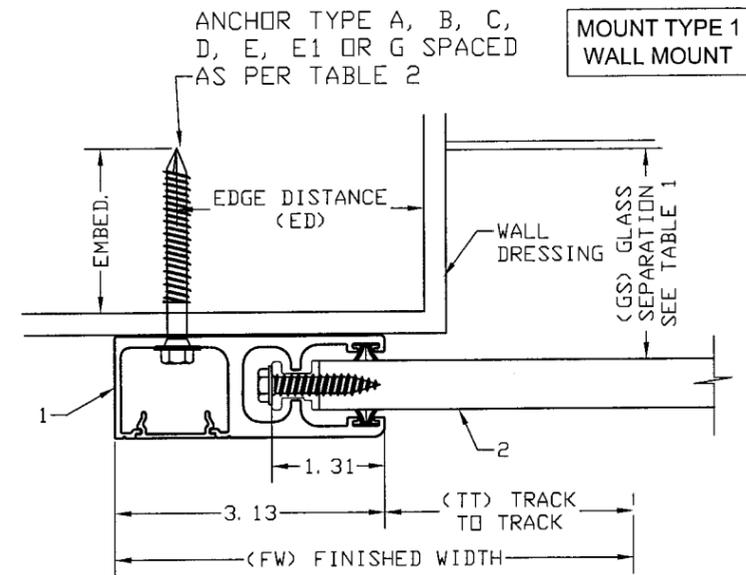
SHEET
4 of 8

TABLE 2
SPACING ON CENTER FUNCTION OF MOUNT TYPE, PRESSURE AND TRACK TO TRACK (TT)

TT in	Pd Psf	REACTIONS LB/FT		WALL MOUNT							INSET MOUNT						ALTERNATE INSET MOUNT						
		Vy	Vx	A	B	C	D	E	E1	G	A	B	C	D	E	E1	F	A	B	C	D	E	E1
264	40	440	3933	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	4	5	-	6	6
	65	715	5304	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3	-	6	6
	70	770	5390	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3	-	6	6
222	40	370	2517	-	-	4	-	5	5	6	-	-	-	-	-	6	5	6	6	5	6	6	
	68	629	3874	-	-	-	-	-	-	4	-	-	-	-	-	-	-	4	4	-	6	6	
	70	648	3947	-	-	-	-	-	-	4	-	-	-	-	-	-	-	4	4	-	6	6	
180	40	300	1598	4	4	6	-	6	6	6	-	-	-	-	6	5	6	6	6	6	6	6	6
	70	525	2901	-	-	3	-	5	4	6	-	-	-	-	-	6	4	5	6	4	6	6	
	90	675	3536	-	-	3	-	-	4	5	-	-	-	-	-	-	-	4	5	-	6	6	
150	40	250	933	6	6	6	4	6	6	6	-	4	4	-	6	6	6	6	6	6	6	6	6
	70	438	1915	-	-	5	-	6	6	6	-	-	-	-	4	6	6	6	6	6	6	6	6
	90	563	2427	-	-	4	-	6	5	6	-	-	-	-	-	6	5	6	6	6	4	6	6
	110	688	2874	-	-	3	-	5	4	6	-	-	-	-	-	6	4	5	5	-	4	6	6
120	40	200	636	6	6	6	6	6	6	6	5	5	6	4	6	6	6	6	6	6	6	6	6
	70	350	1366	5	5	6	-	6	6	6	-	-	3	-	6	6	6	6	6	6	6	6	6
	90	450	1774	4	4	5	-	6	6	6	-	-	-	-	5	4	6	6	6	6	6	6	6
	110	550	2151	-	-	4	-	6	6	6	-	-	-	-	-	6	5	6	6	6	5	6	6
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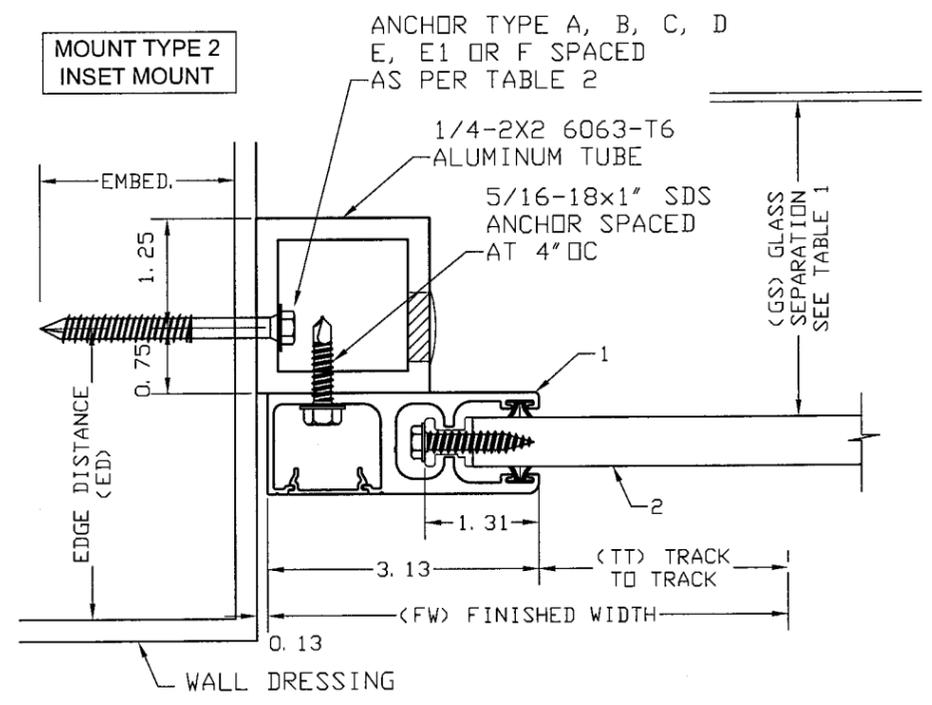


TYPICAL HORIZONTAL SECTIONS

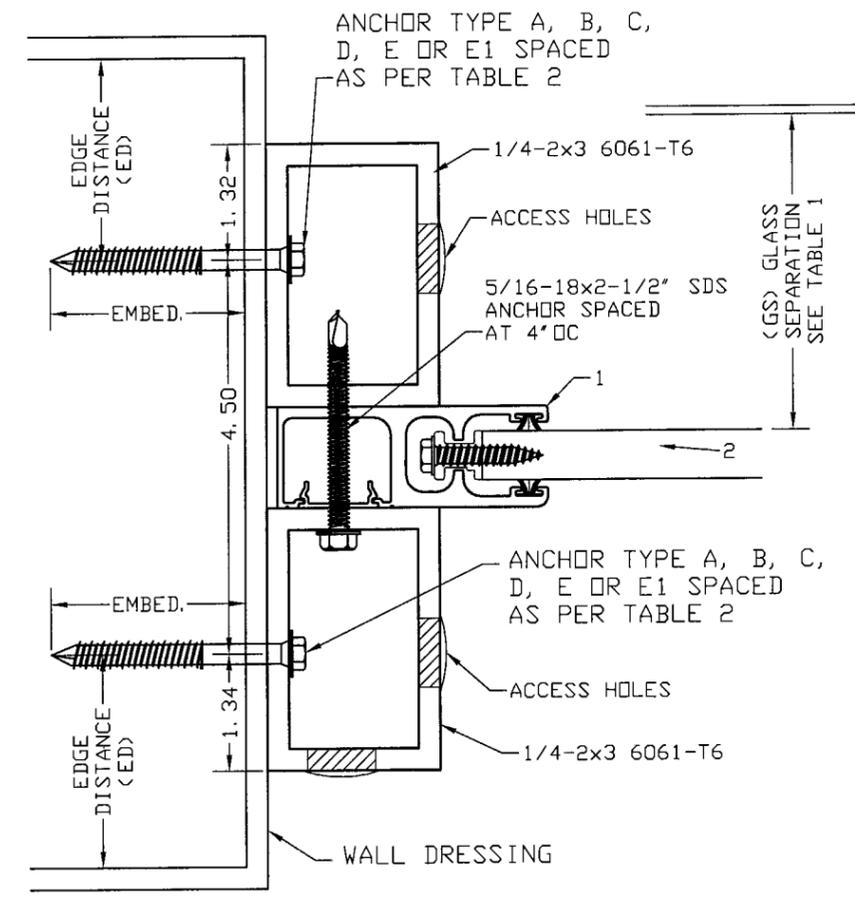


ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EMBEDMENT	EDGE DISTANCE	MINIMUM SPACING
A	5/16" ITW TAPCONS	MIN. 2899 psi CONCRETE	2 1/4"	3 1/8"	4"
B	5/16" ITW TAPCONS	GROUT FILLED C-90 BLOCK	2 1/4"	4"	4"
C	5/16"-18X1" GRADE 5 SELF DRILLING SCREWS	MIN. 1/4" 6063-T6 ALUM. OR A36 3/16" STEEL		1/2" / 3/8"	3"
D	5/16" ITW TAPCONS	WOOD WITH G>= .55	2 1/4"	1-1/4"	4"
E	3/8" POWERS WEDGE BOLT	MIN. 3000 psi CONCRETE	3 1/2"	4-1/2"	5"
E1	3/8" POWERS WEDGE BOLT	MIN. 3000 psi CONCRETE	3 1/2"	4-1/2"	4"
F	3/4" POWERS WEDGE BOLT	MIN. 5000 psi CONCRETE	6"	9"	6"
G	3/8"-16X1" GRADE 5 SELF DRILLING SCREWS	MIN. 3/8" 6005-T5 ALUM. OR A36 5/16" STEEL		3/4" / 5/8"	3"



MOUNT TYPE 3 ALTERNATE INSET MOUNT



MANUFACTURER:
RoISafe
12801 COMMONWEALTH DRIVE - SUITE 2
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Engineering:
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ENGCO@AOL.COM

Pedro De O. Riquelme
Professional Engineer

DRAFTING:
PK DRAFTING & MORE

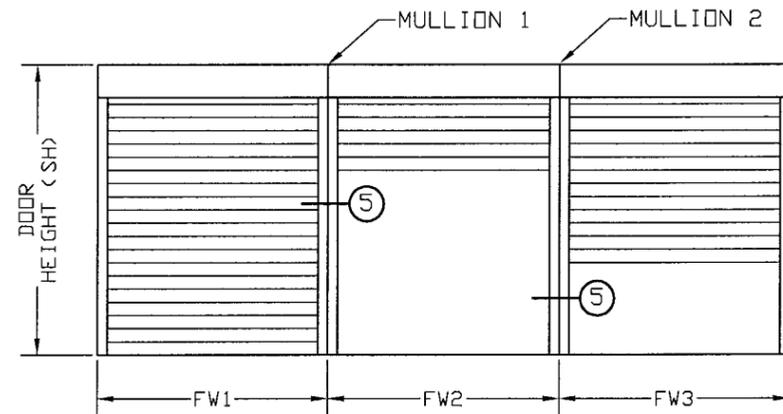
MIAMI-DADE BCCO:
Approved as complying with the
Florida Building Code
Date 06/02/2010
NOA# 10-0104.04
Miami Dade Product Control
Division
By *Helmy A. Melon*

Date: 05/05/2010
Scale: NA
Design by: PPMF

Drawing Number
09-169.1

SHEET
5 of 8

EQUALLY SPACED MULLIONS SELECTION



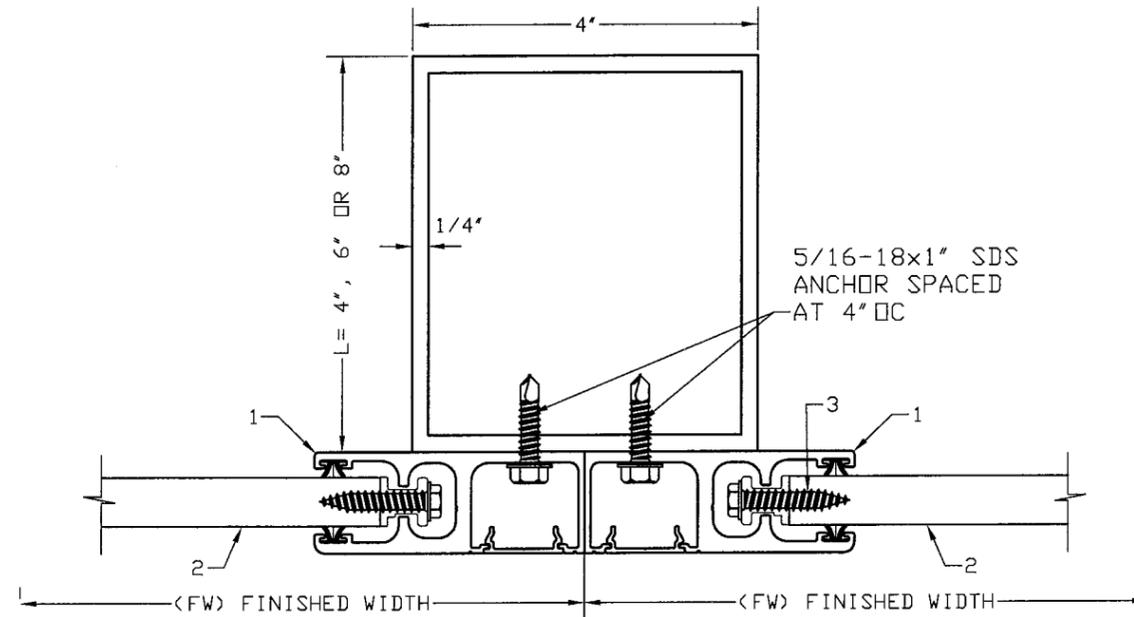
APPLICABLE ONLY FOR FW1=FW2=FW3
 MULLION 1: $TM1 = (FW1+FW2) / 2$
 MULLION 2: $TM2 = (FW2+FW3) / 2$
 TM: TRIBUTARY MODULE

MULLION BARS SELECTION TABLES (PSF)

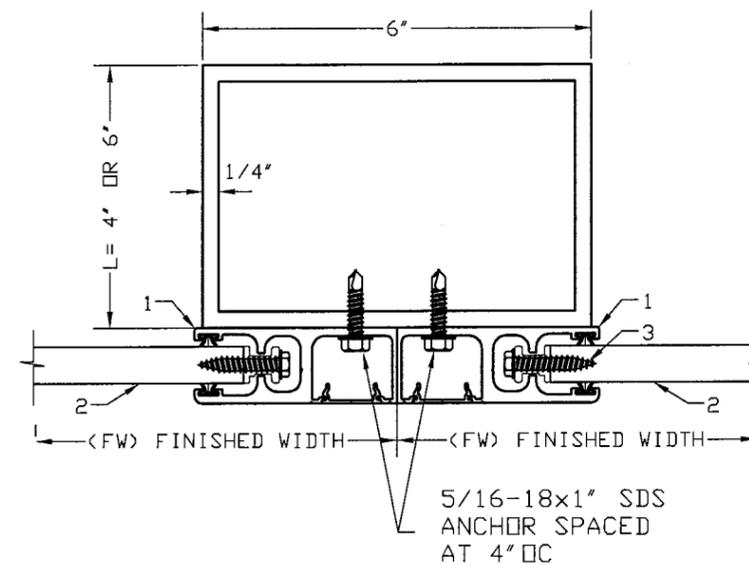
DOOR MODULE	MULLION TYPE & MAX. HEIGHT														
	1/4-4x8			1/4-4x6			1/4-4x4			1/4-6x6			1/4-6x4		
264	37	44	54	31	43	55	23	35	55	43	55	61	32	48	65
222	44	53	64	37	52	66	27	41	66	51	65	70	38	57	70
180	54	65	79	46	64	81	34	51	81	63	70	70	47	70	70
150	65	78	95	56	77	97	41	61	97	76	96	108	56	84	110
120	82	98	119	70	96	122	51	77	122	95	120	135	70	106	143

NOTES:
 1- MULLIONS WERE DESIGNED BY RATIONAL ANALYSIS BASED ON THE ALUMINUM DESIGN MANUAL 2005 ED. AND THE FLORIDA BUILDING CODE.
 2- DEFLECTION CRITERIA: MAXIMUM SPAN /180
 3- VALUES ABOVE IS APPLICABLE ONLY FOR EQUAL MODULES FW1=FW2=FW3.

DETAIL 5
4X MULLION SECTION



DETAIL 5
6X MULLION SECTION



MANUFACTURER:
RoISafe
 12801 COMMONWEALTH DRIVE - SUITE 2
 FORT MYERS, FL. 33913
 Phone: (239) 225-2487
 Fax: (239) 561-0780

PRODUCT:
53 mm Herculean
 IMPACT ROLLING WALL
 LARGE & SMALL MISSILE
 IMPACT RATED

Engineering:
EngCo Inc.
 CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, FL 33313
 ENGO@AOL.COM

Professional Engineer Seal
 License No. 52609
 State of Florida
 Pedro M. De Queiroz
 PE 52609

DRAWING:
PK DRAFTING & MORE

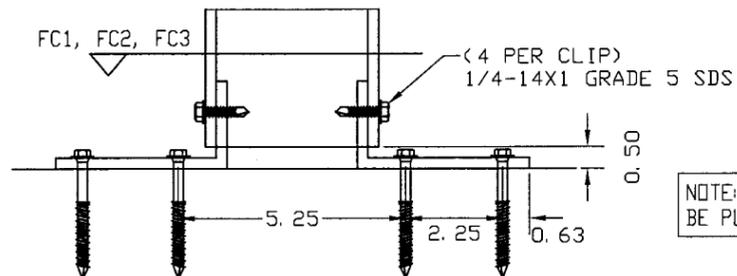
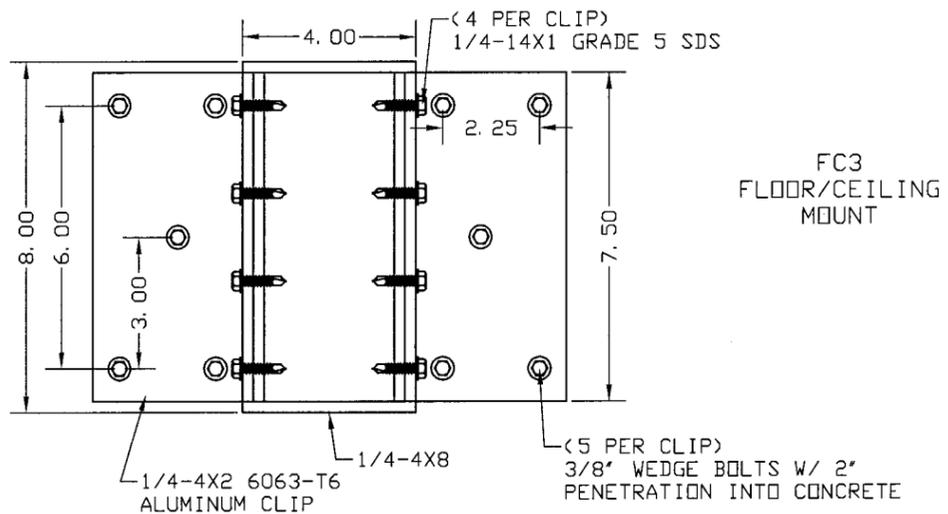
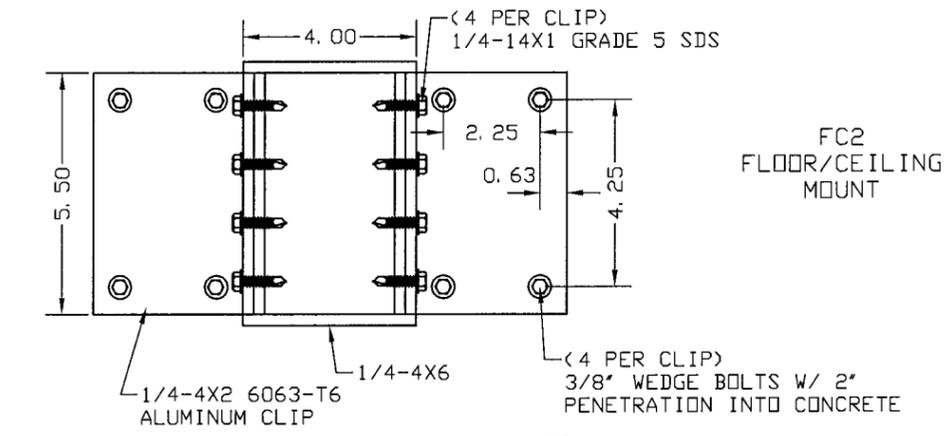
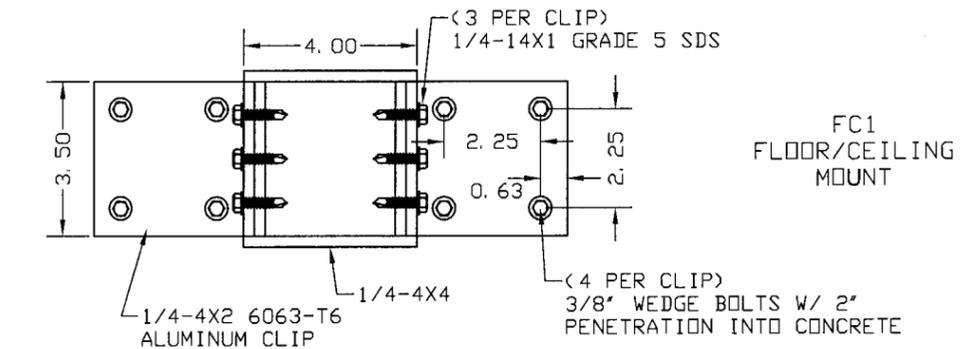
MIAMI-DADE BCCO:
 Approved as complying with the Florida Building Code
 Date 06/02/2010
 NOA# 10-0104.04
 Miami Dade Product Control Division
 By *Helmy A. Miller*

Date: 05/05/2010
 Scale: NA
 Design by: PPMF

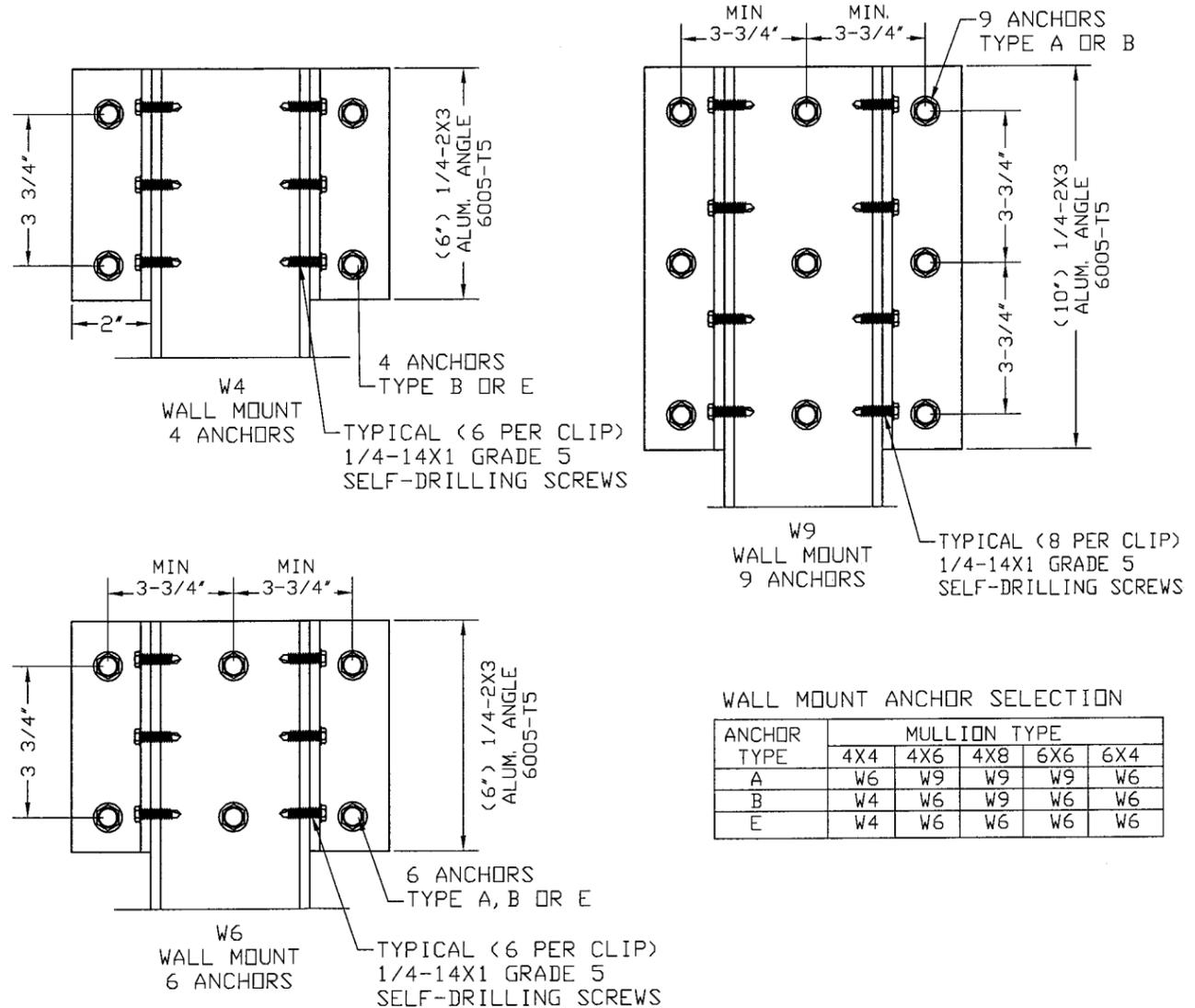
Drawing Number
09-169.1

SHEET
6 of 8

EQUALLY SPACED MULLIONS WALL AND INSET CONNECTIONS



NOTE: ANGLE CLIP TO BE PLACED INSIDE TUBE



WALL MOUNT ANCHOR SELECTION

ANCHOR TYPE	MULLION TYPE				
	4X4	4X6	4X8	6X6	6X4
A	W6	W9	W9	W9	W6
B	W4	W6	W9	W6	W6
E	W4	W6	W6	W6	W6

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EMBEDMENT	EDGE DISTANCE
A	5/16" ITW TAPCONS	MIN. 2899 psi CONCRETE	2 1/4"	3 1/8"
B	5/16" ITW TAPCONS	GROUT FILLED C-90 BLOCK	2 1/4"	4"
E2	3/8" POWERS WEDGE BOLT	MIN. 3000 psi CONCRETE	2 1/2"	4-1/2"

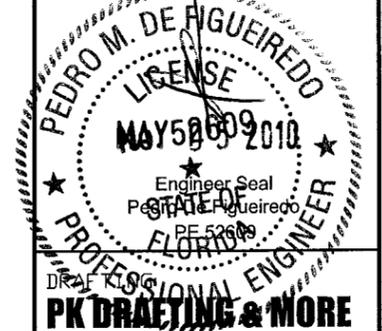
MANUFACTURER:

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12801 COMMONWEALTH DRIVE - SUITE 2
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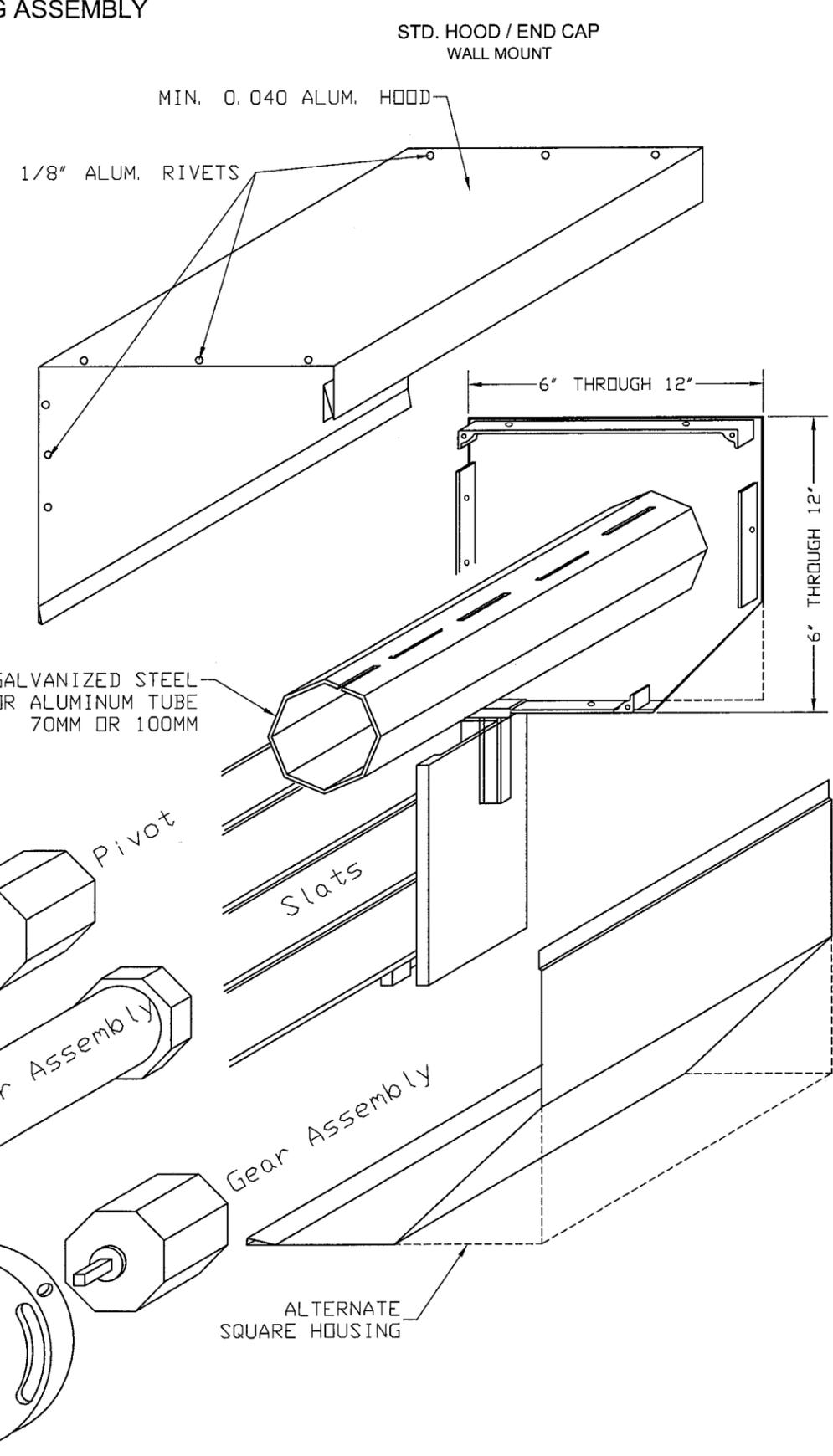
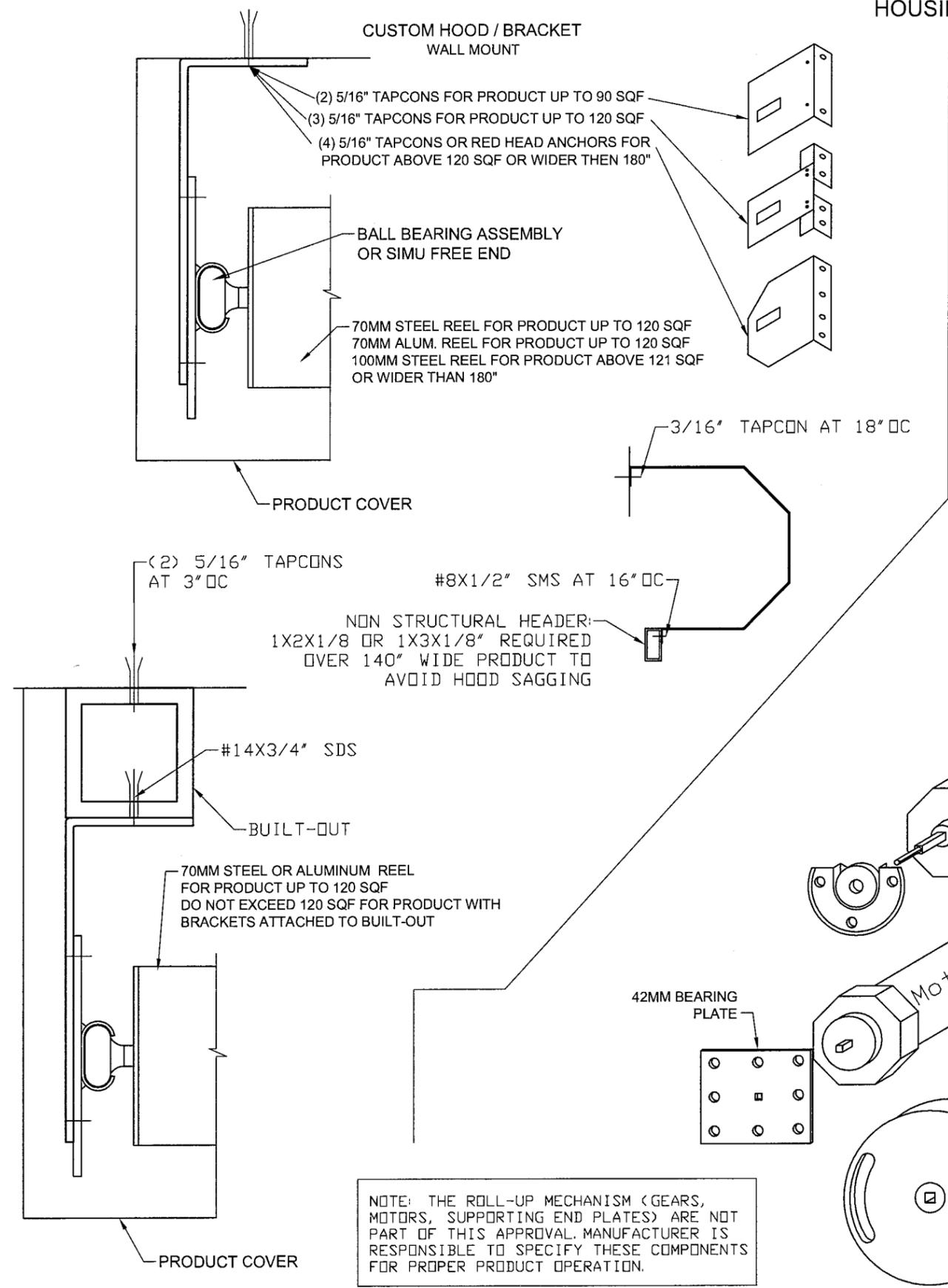
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Florida Building Code
Date: 06/02/2010
NOA# 10-0104-04
Miami Dade Product Control
Division
By: *Helmy A. Nasser*

Date: 05/05/2010
Scale: NA
Design by: PPMF

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09-169.1

SHEET
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HOUSING ASSEMBLY



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DRAFTING:
PK DRAFTING & MORE

MIAMI-DADE BCCO:

Approved as complying with the
 Florida Building Code
 Date 06/02/2010
 NOA# 10-0164.04
 Miami Dade Product Control
 Division/
 By *Helena A. Melor*

Date: 05/05/2010
 Scale: NA
 Design by: PPMF

Drawing Number
09-169.1

SHEET
8 of 8