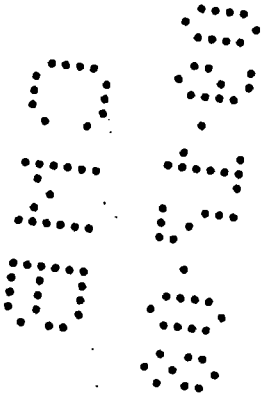


B0803040 BMS0803060 PLA

CITY OF MIAMI BEACH



City of Miami Beach
Building Department
Shutter Permit
OFFICE COPY

THE-HOME DEPOT AT HOME SERVICE
SHUTTER INFORMATION SHEET

Review Type

Initials

Date

Structural

JOB#

3700630

Electrical

Zoning Build Height

L-14

9/17/08

Type Of Anchor Specified

1/4 TAPCON

Type Of Construction

Poured Concrete

Name:

Heriberto Sanchez

No. Open.	Shutter Type P / A / W	Shutter Product Approval No	Shutter Length or Spam	Vertical Horizontal	Opening Size		Zone	Edge Distance	Opening Design load		Glass Distance Separation	Shutter Mounting Detail	Anchor Spacing TOP TRACK	Shutter Mounting Detail	Anchor Spacing BOTTOM TRACK
					Width IN	Height IN			(+)	(-)					
1	Panel	06-0117.05	30	Vertical	40	32	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 1	13
2	Panel	06-0117.05	30	Vertical	32	32	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 1	13
3	Panel	06-0117.05	30	Vertical	30	30	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 1	13
4	Panel	06-0117.05	44	Vertical	37	27	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 1	13
5	Panel	06-0117.05	31	Vertical	70	30	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 1	13
6	Panel	06-0117.05	58	Vertical	39	53	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 1	13
7	Panel	06-0117.05	46	Vertical	22	40	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 1	13
8	Panel	06-0117.05	58	Vertical	35	53	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 1	13
9	Panel	06-0117.05	58	Vertical	38	53	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 1	13
10	Panel	06-0117.05	72	Vertical	72	66	5	3"	61.0	76.8	3 5/8	Detail # 1	9	Detail # 1	9
11	Panel	06-0117.05	81	Vertical	132	75	5	3"	61.0	76.8	3 5/8	Detail # 1	13	Detail # 1	13
12	Panel	06-0117.05	73	Vertical	35	68	5	3"	61.0	76.8	3 5/8	Detail # 1	13	Detail # 1	13

NOTES:

DELETING OPENINGS # 1, 2, 3, 5. NOT INSTALLED.

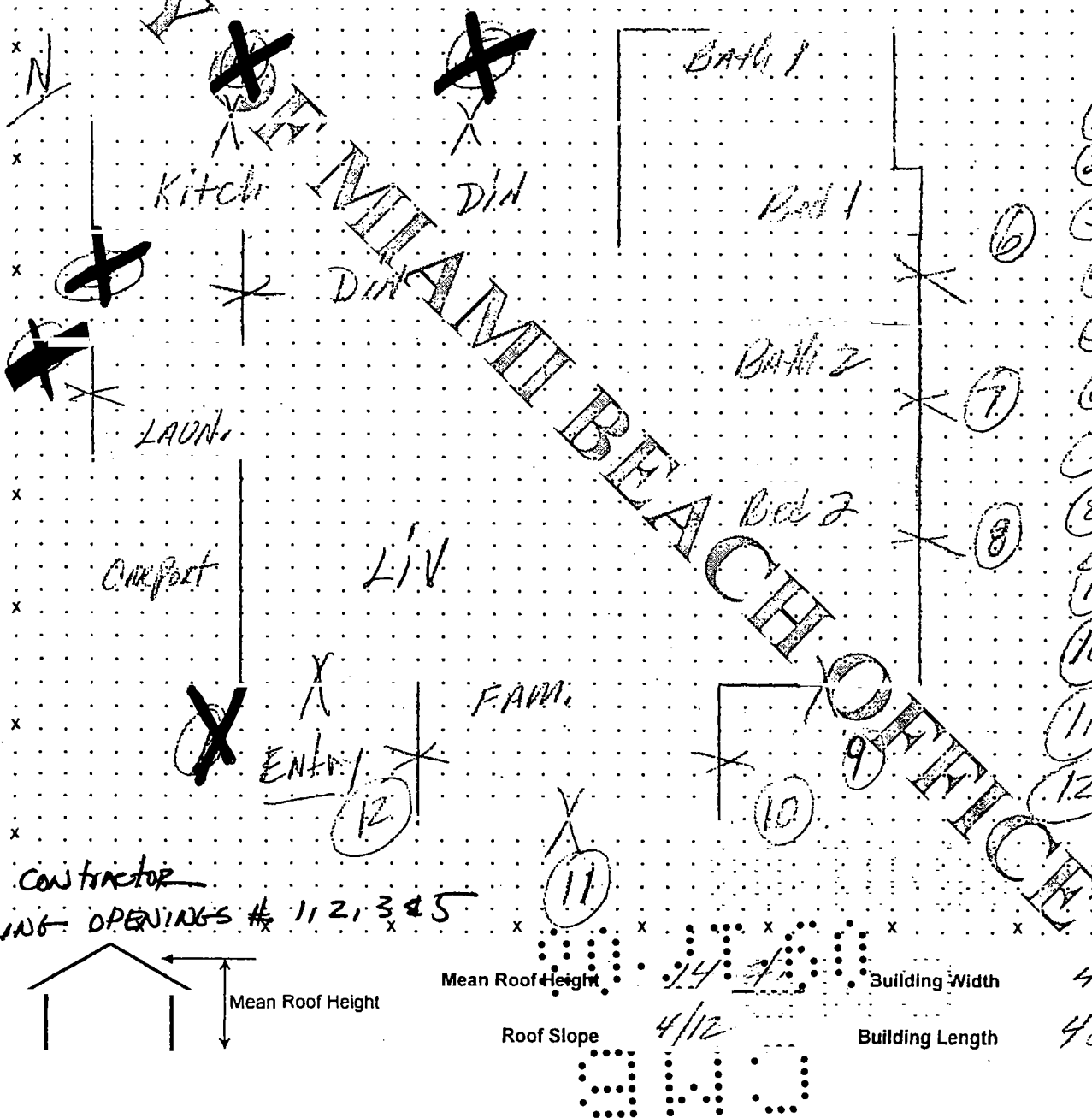
CITY OF MIAMI BEACH OFFICE

CUSTOMER NAME

Heriberto Sanchez

WINDOW DIAGRAM SHEET

JOB # 3700630



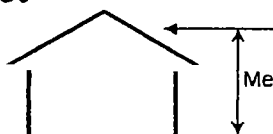
EAST

Items:

- ① AP 40/82
- ② AP 32/82
- ③ AP 38/53
- ④ AP 37/27
- ⑤ AS 72/80
- ⑥ AP 39/53
- ⑦ AP 22/40
- ⑧ AP 38/53
- ⑨ AP 38/53
- ⑩ AP 72/66
- ⑪ AP 132/75
- ⑫ AP 35/68

West

CHANGE OF CONTRACTOR
NOT INSTALLING OPENINGS # 1, 2, 3 & 5



Mean Roof Height

Mean Roof Height

Roof Slope

14/12

4/12

Building Width

Building Length

42 ft

46 ft

COPY



03.11.00

CWB



opening# 1-12

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

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 100
MIAMI, FLORIDA 33130-1163
(305) 375-2901 FAX (305) 375-3908

NOTICE OF ACCEPTANCE (NOA)

MetalTech, Inc.
7635 West 2nd Court
Hialeah, FL 33014

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: "Maximum Impact" 0.050" Aluminum Storm Panel Shutter

APPROVAL DOCUMENT: Drawing No. 98002, titled "0.050" Maximum Impact Storm Panel", sheets 1 through 7 of 7, prepared by Ramms Engineering, Inc., dated January 10, 1998, last revision dated 01/12/2006, signed & sealed by Robert Monsour, P.E. on 01/12/2006, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date, the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each panel 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 revises & renews NOA # 04-0621.01 and consists of this page 1, evidence submitted pages E-1 & E-2

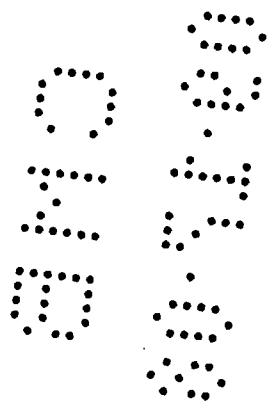
NOTICE: In addition to the requirements stated above, there may be additional restrictions applicable to this product. The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

Public Records of this County and there may be additional permits required from other governmental entities such as water management districts, state agencies, or other agencies.

The City of Miami assumes no responsibility for accuracy of or results from these tests which are approved subject to compliance with all Federal, State, and Local Laws, Rules, and Regulations.

NOA No 06-0117.05
Expiration Date: 10/22/2011
Approval Date: 10/19/2006
Page 1

10/19/2006



MetalTech, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVALS

A. DRAWINGS

See NOA 01-0718.09

B. TESTS

See NOA 01-0718.09

C. CALCULATIONS

See NOA 01-0718.09

D. MATERIAL CERTIFICATIONS

See NOA 01-0718.09

E. STATEMENTS

See NOA 01-0718.09

F. OTHER

NOA 01-0718.09.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0621.01

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

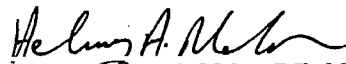
1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

F. OTHER

1. NOA # 02-0312.08 cover page states the number of sheets incorrectly "sheets 1 through 18". This NOA #04-0621.01 is issued to revise NOA # 02-0312.08 and correct the number of sheets on the cover page to " sheets 1 through 7 of 7". This is the only change. This file is authorized by Mr. Ted Berman, P.E. with no fee.



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No 06-0117.05
Expiration Date: 10/22/2011
Approval Date: 10/19/2006

020
243

MetalTech, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 98002, titled "0.050" Maximum Impact Storm Panel", sheets 1 through 7 of 7, prepared by Ramms Engineering, Inc., dated January 10, 1998, last revision dated 01/12/2006, signed & sealed by Robert Monsour, P.E. on 01/12/2006.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor analyses dated January 06, 2006, 41 pages, prepared by Ramms Engineering, Inc., signed & sealed on January 06, 2006 by Robert Monsour, P.E.

D. QUALITY ASSURANCE

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

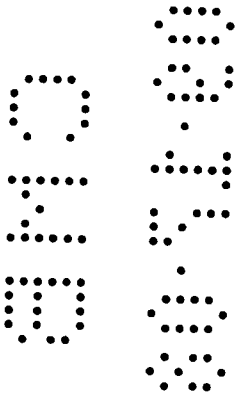
E. MATERIAL CERTIFICATIONS

1. None.

CITY OF MIAMI BEACH OFFICE COPY

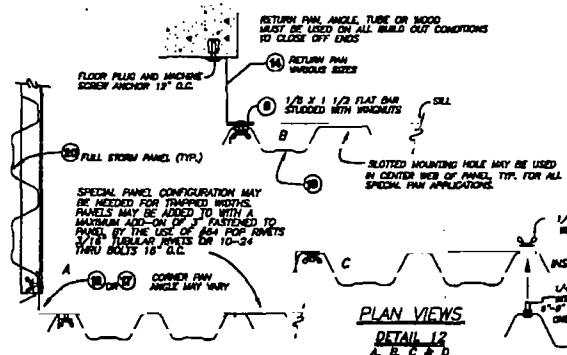
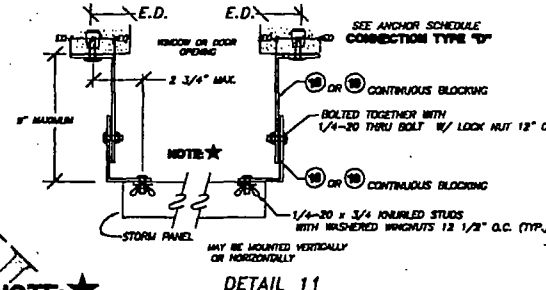
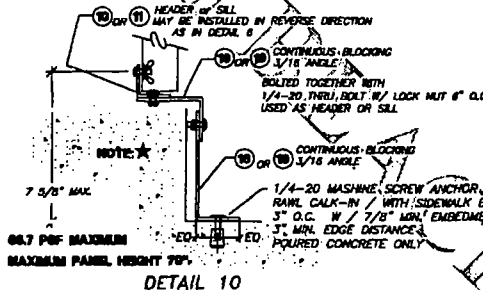
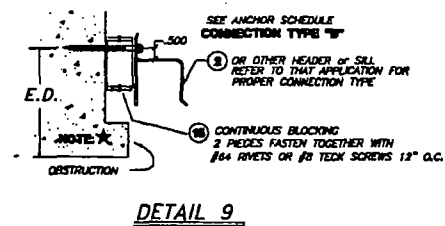
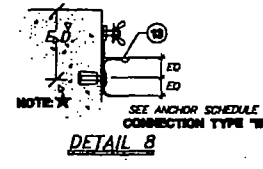
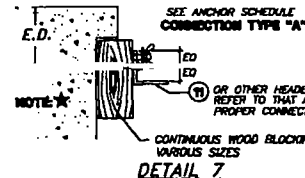
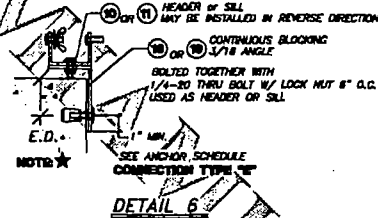
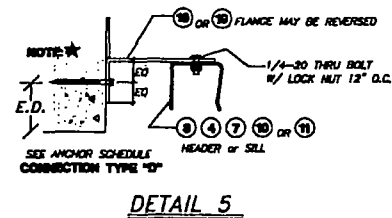
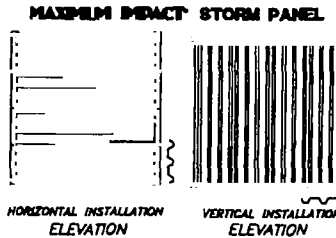
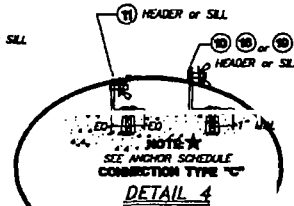
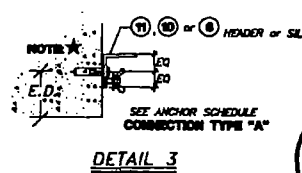
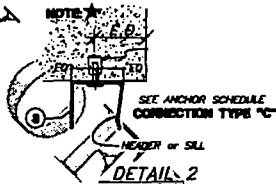
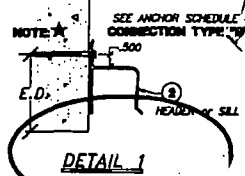
Helmy A. Makar

Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No 06-0117.05
Expiration Date: 10/22/2011
Approval Date: 10/19/2006



08.15.00

CWB



NOTE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE TO WITH STAND THE ADDITIONAL LOADS AND INSURE PROPER ANCHORAGE. SHUTTER SYSTEM MAY BE INSTALLED INTO WOOD, CONCRETE, MASONRY.

WHEN ANCHORING TO WOOD, THE WOOD MUST BE A MINIMUM 3" X 4" EQUAL TO #2 SOUTHERN PINE WITH 0.33 SPECIFIC GRAVITY AND STRUCTURALLY PART OF THE FRAMING STRUCTURE OR SECURELY ATTACHED TO FRAMING STRUCTURE.

PRODUCT REVISIONS

as complying with the Florida Building Code

Amended by 06-0117-05

Expiration Date 12/31/10

By Robert S. Lonsoup, P.E.

Official Designated Control

ROBERT S. LONSOU, P.E.

RB-0008024

WWW.ENGINEERING, INC.

REVISIONS	BY
09/11/98	SP
01/12/06	SP

RAMMS ENGINEERING, INC.

Structural Design

400 N. 7th Street, Suite 201

MALDEN, MASSACHUSETTS 02148

617-624-0024

METALTECH, INC.

EST. 1937

7430 W. SECOND ST. HALENDA, FL 33014

SEP / 10 / REV
01/10/08
SHOWN
0004
2
7

BUILDING CODE COMPLIANCE

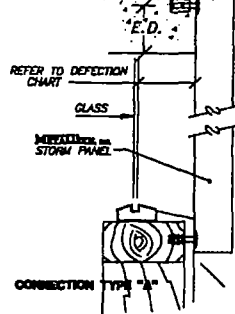
AWD

COPY

08-15-08

CWB

1/4"-20 FLOOR PLUG WITH MACHINE SCREW ANCHOR HEADER OR SILL CONCRETE OR MASONRY CONNECTION TYPE "A"

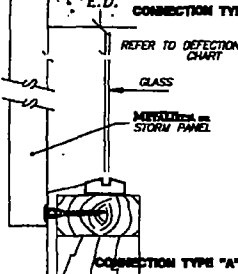


1/4"-20 FLOOR PLUG WITH 1/4"-20 BRASS WOOD BUSHING HEADER OR SILL INTO WOOD

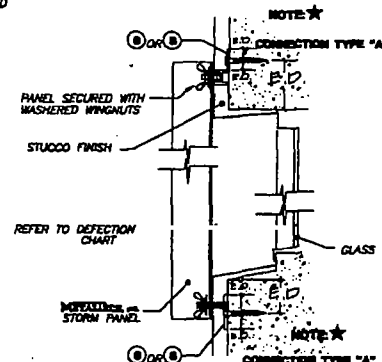
NOTE: THE METALTECH STORM PANEL MAY BE INSTALLED WITHOUT THE USE OF AN EXTRUDED HEADER OR SILL. THE SHUTTER MAY BE ANCHORED DIRECTLY TO THE STRUCTURE WITH THE USE OF ONE OR A COMBINATION OF DETAIL 13.

NOTE: *

NOTE: * 1/4" PANEL MATE SCREW WITH 14-20 STUD HEAD WITH WASHERED WINGNUTS WOOD, CONCRETE OR MASONRY CONNECTION TYPE "A"

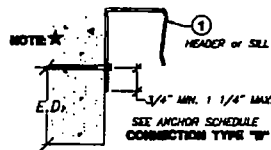


1/4" PANEL MATE WITH MACHINE SCREW HEAD WITH 14-20 SIDEWALK BOLT HEADER OR SILL WOOD, CONCRETE OR MASONRY

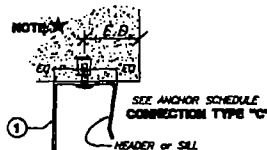


PRESTUCCO INSTALLATION

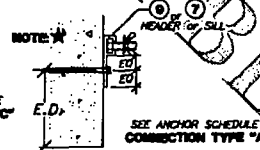
DETAIL 14



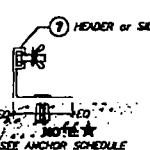
DETAIL 15



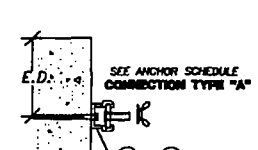
DETAIL 16



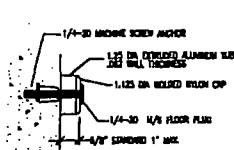
DETAIL 17



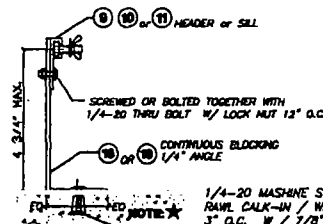
DETAIL 18



DETAIL 19



DETAIL 20



88.5 PSF MAXIMUM / PANEL HEIGHT 100" MAXIMUM

DETAIL 21

NOTE: *

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE TO WITH STAND THE ADDITIONAL LOADS AND INSURE PROPER ANCHORAGE. SHUTTER SYSTEM MAY BE INSTALLED INTO WOOD, CONCRETE, MASONRY.

WHEN ANCHORING TO WOOD, THE WOOD MUST BE A MINIMUM 2" X 4" EQUAL TO #2 SOUTHERN PINE WITH 0.55 SPECIFIC GRAVITY AND STRUCTURALLY PART OF THE FRAMING STRUCTURE OR SECURELY ATTACHED TO FRAMING STRUCTURE

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 06-0117-05
Expiration Date 12/31/2011
By *Robert B. Monsour*
Professional Engineer
Division

ROBERT B. MONSOUR, PE
EB-0008024
RBS ENGINEERING, INC.

MAXIMUM IMPACT STORM PANEL

REVISIONS	BY
09/11/98	SP
01/12/06	SP

RAMMS ENGINEERING, INC.
Structural Design
1100 N. 10th Street, Suite 211
Mesa, Arizona 85203
EB 0000024

METALTECH, INC.
EST. 1957
7430 W. SECOND ST., GULFSTREAM, FL 33204

REV	DATE	BY	CHK
01/18/97		SP	
06/01/05		SP	
06/01/05		SP	
06/01/05		SP	
06/01/05		SP	
06/01/05		SP	
06/01/05		SP	
06/01/05		SP	

BUILDING CODE COMPLIANCE

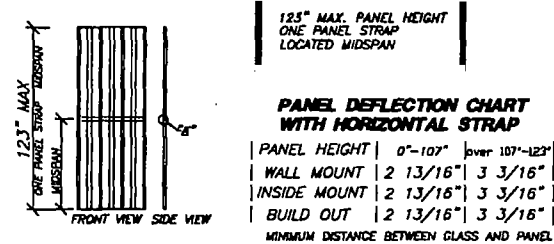
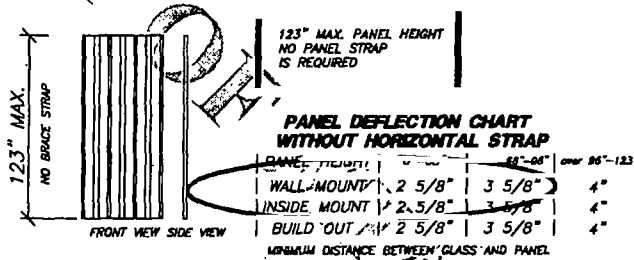
ORIGINAL COPY

03.11.00

CMB

THE METALTECH STORM PANELS MAY BE INSTALLED WITH OR WITHOUT THE HORIZONTAL BRACE STRAP. REFER TO PANEL DEFLECTION CHARTS.

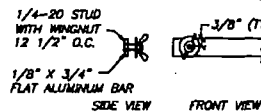
.050 ALUMINUM MAXIMUM IMPACT STORM PANEL



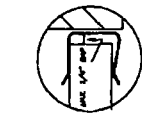
.050 ALUM

DESIGN PRESSURE	PANEL SPAN
44.40	123"
47.81	120"
51.23	117"
58.06	112"
61.47	110"
66.85	106"
71.46	102"
75.30	97"
81.45	90"
86.83	84"
91.44	80"

HORIZONTAL BRACE STRAP

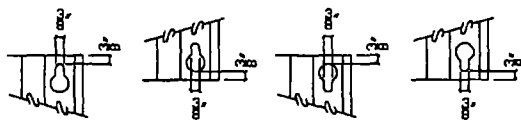


DETAIL "E"



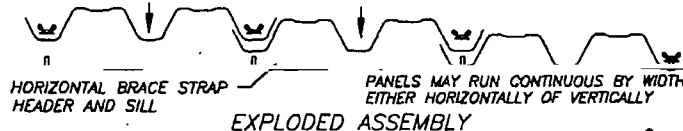
MAXIMUM GAP BETWEEN PANEL AND HEADER IS 1/4" (TYP.)

DETAIL "F"



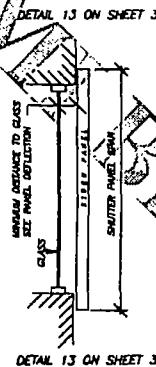
FASTENER MUST BE IN NARROW PORTION OF KEY HOLE MOUNTING HOLE MAY ALSO BE A 9/16" DIA. CIRCLE

DETAIL "G"

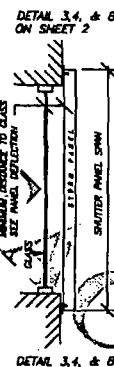


EXPLODED ASSEMBLY

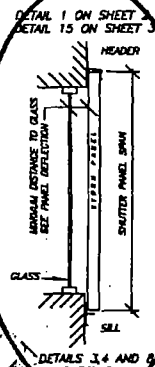
HEADER AND SILL TYPES MAY VARY, DEPENDING ON APPLICATION



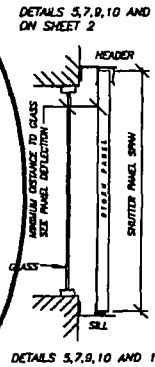
DETAIL 13 ON SHEET 3



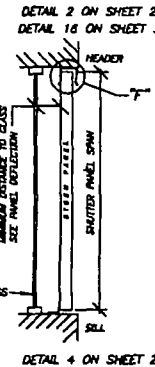
DETAIL 3, 4, & 8 ON SHEET 2



DETAILS 3, 4 AND 8 ON SHEET 2



DETAILS 5, 7, 9, 10 AND 11 ON SHEET 2



DETAIL 2 ON SHEET 2
DETAIL 16 ON SHEET 3

WALL MOUNT
ANCHORING PANEL
TOP & BOTTOM
WITH STUDDED HDR/SILL

TYPICAL SECTION VIEWS

BUILD OUT
WITH HDR. AND SILL

INSIDE MOUNT
WITH HDR. AND SILL

PRODUCT REVISED
as complying with the Florida
Building Code
Adoption No. 06-017-05
Expiration Date 12/31/2011
By: H. Allen
Metal Tech Product Control
Division

ROBERT S. MCKINJOUR, PE
EB-0006024
RWYS ENGINEERING, INC.

REVISIONS	BY
09/11/98	SP

RWYS ENGINEERING, INC.
Standard Design
1000 S. 10th Street, Suite 201
Palm Beach, FL 33480
EST. 1987
FEMA #1, SECOND CYCLE

METALTECH, INC.
1000 S. 10th Street, Suite 201
Palm Beach, FL 33480
EST. 1987

EST. 1987
01/10/98
SHOWN
80003
4
7

BUILDING CODE COMPLIANCE

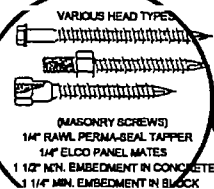
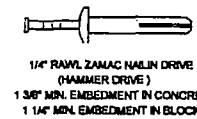
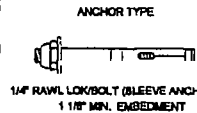
ORIGINAL COPY

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CWB

ANCHOR SCHEDULE

ANCHOR SPACING vs DESIGN PRESSURE
AND CONNECTION TYPE



1/4-20 x 7/8", 1/2" DIA.
RAWL CALK-IN
(MACHINE SCREW ANCHOR)
7/8" MIN. EMBEDMENT

PRESSURE		UP TO 59.6 PSF										UPTO 71.5 PSF																									
PANEL	E.D.	POURED CONCRETE CONNECTION TYPE					CONCRETE BLOCK CONNECTION TYPE					POURED CONCRETE CONNECTION TYPE					CONCRETE BLOCK CONNECTION TYPE																				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E																
95" SPAN	3"	16	13	8	13	13	16	13	10	13	13	16	13	7	13	13	16	13	7	13	13	16	13	7	13	13	16	13	7	13	13	16	13	7	13	13	
	2"	16	13	7	13	13	16	13	10	13	13	16	13	7	13	13	16	13	7	13	13	16	13	7	13	13	16	13	7	13	13	16	13	7	13	13	
	1 1/4"	16	13	5	13	13	16	13	8	13	13	14	13	4	13	13	14	13	4	13	13	14	13	4	13	13	14	13	4	13	13	14	13	4	13	13	
80" SPAN	3"	16	13	8	13	13	16	13	10	13	13	14	8	6	9	10	14	6	8	9	10	14	6	8	9	10	14	6	8	9	10	14	6	8	9	10	
	2"	15	11	5	13	13	15	11	5	13	13	12	8	6	8	9	12	8	6	8	9	12	8	6	8	9	12	8	6	8	9	12	8	6	8	9	
	1 1/4"	13	10	4	13	13	13	10	5	13	13	11	5	3	7	8	11	5	4	7	8	11	5	4	7	8	11	5	4	7	8	11	5	4	7	8	
100" span	3"	14	8	5	10	14	7	5	8	9	10	11	4	4	5	4	12	4	5	5	4	12	4	5	5	4	12	4	5	5	4	12	4	5	5	4	
	2"	12	8	4	8	8	12	8	5	8	9	10	4	4	5	4	10	4	5	4	10	4	5	4	10	4	5	4	10	4	5	4	10	4	5	4	
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120" span	3"	11	4	4	5	4	12	4	5	5	5	5	5	5	4	7	8	5	5	4	7	8	5	5	4	7	8	5	5	4	7	8	5	5	4		
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	2"	14	5	5	6	5	6	3	3	4	3	12	4	4	5	6	7	4	3	4	3	12	4	4	5	6	7	4	3	4	3	12	4	4	5	6	7

NOTES:

SPANS AND LOADS SHOWN IN THIS SCHEDULE
ARE FOR DETERMINING ANCHOR SPACING ONLY.
FOR ALLOWABLE SPANS VS. DESIGN LOADS
REFER TO SHEET 4.

MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES
STUCCO AND/OR WALL FINISHES.

SHADED AREAS REPRESENT ANCHOR CONDITIONS THAT
ARE NOT ACCEPTABLE.

IT SHALL BE THE RESPONSIBILITY OF THE
CONTRACTOR TO VERIFY THE SOUNDNESS OF
THE STRUCTURE TO WITH STAND THE ADDITIONAL
LOADS AND INSURE PROPER ANCHORAGE.
SHUTTER SYSTEM MAY BE INSTALLED INTO WOOD,
CONCRETE, OR MASONRY.

REVISIONS	BY
09/11/98	SP
01/06/06	SP

RAMM'S ENGINEERING, INC.
Structural Design
1000 S. W. 10TH AVE. SUITE 111
MIAMI, FLORIDA 33135
TEL: 305.352.2424

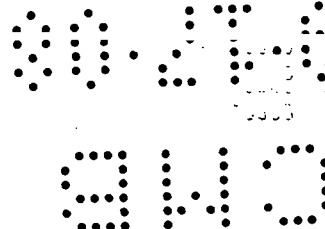
METALTECH, INC.
EST. 1957
7433 N. SECOND ST. MIAMI, FL 33144

BUILDING CODE COMPLIANCE

EDP/MS
01/10/98
SHOWN
5

PRODUCT REVISED
on complying with the Florida
Building Code
Amended: No. 6-0117-05
Expiration Date: 10/24/11
By: *Robert S. Moursour*
Miami Code Official/Central
Division

ROBERT S. MOURSOUR, P.E.
BB-0006024
RAMM'S ENGINEERING, INC.



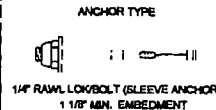
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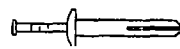
CMB

ANCHOR SCHEDULE

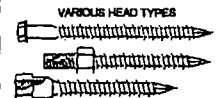
ANCHOR SPACING vs DESIGN PRESSURE
AND CONNECTION TYPE



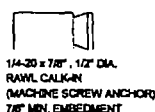
1/4" RAWL LOWBOLT (SLEEVE ANCHOR)
1 1/8" MIN. EMBEDMENT



1/4" RAWL ZAMAC NAILON DRIVE
(HAMMER DRIVE)
1 3/8" MIN. EMBEDMENT IN CONCRETE
1 1/4" MIN. EMBEDMENT IN BLOCK



VARIOUS HEAD TYPES
(MASONRY SCREWS)
1/4" RAWL PERMA-SEAL TAPPER
1/4" ELCO PANEL MATE
1 1/2" MIN. EMBEDMENT IN CONCRETE
1 1/4" MIN. EMBEDMENT IN BLOCK



1/4-20 x 7/8" DIA.
RAWL CALGUN
(MACHINE SCREW ANCHOR)
7/8" MIN. EMBEDMENT

UP TO 81.5 PSF

UPTO 91.4 PSF

PANEL	E.D.	POURED CONCRETE CONNECTION TYPE					CONCRETE BLOCK CONNECTION TYPE					POURED CONCRETE CONNECTION TYPE					CONCRETE BLOCK CONNECTION TYPE				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
60" SPAN	3"	15	10	8	13	13	16	10	7	13	13	13	7	5	9	11	13	7	6	8	11
	2"	14	9	5	13	13	14	9	6	13	13	12	6	4	8	9	12	6	5	8	10
	1 1/4"	12	8	4	12	12	12	8	4	12	12	11	5	3	7	9	11	5	4	7	8
80" SPAN	3"	12	8	4	12	12	12	8	4	12	12	11	5	3	7	9	11	5	4	7	8
	2"	11	7	4	11	11	11	7	4	11	11	10	4	3	6	8	10	4	3	6	7
	1 1/4"	10	6	3	10	10	10	6	3	10	10	9	3	3	5	7	9	3	3	5	6
100" SPAN	3"	10	6	3	10	10	10	6	3	10	10	9	3	3	5	7	9	3	3	5	6
	2"	9	5	3	9	9	9	5	3	9	9	8	3	3	4	6	8	3	3	4	5
	1 1/4"	8	4	3	8	8	8	4	3	8	8	7	3	3	4	5	7	3	3	4	5
120" SPAN	3"	8	4	3	8	8	8	4	3	8	8	7	3	3	4	5	7	3	3	4	5
	2"	7	3	3	7	7	7	3	3	7	7	6	3	3	3	4	6	3	3	3	4
	1 1/4"	6	3	3	6	6	6	3	3	6	6	5	3	3	3	4	5	3	3	3	4
60" SPAN	3"	19	13	8	13	13	11	7	5	11	11	18	8	7	12	13	10	5	4	7	8
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	1 1/4"	16	10	6	13	13	9	6	3	9	9	14	7	5	9	11	8	4	3	5	6
80" SPAN	3"	15	8	6	8	8	9	3	4	4	4	14	7	5	8	11	8	3	3	3	3
	2"	14	6	5	7	7	8	3	4	3	3	12	6	5	7	9	7	3	3	3	3
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100" SPAN	3"	14	6	5	7	7	8	3	4	3	3	12	6	5	7	9	7	3	3	3	3
	2"	13	5	4	6	6	7	3	3	4	3	11	4	4	6	8	6	3	3	3	3
	1 1/4"	12	5	4	6	6	7	3	3	4	3	11	4	4	6	8	6	3	3	3	3
120" SPAN	3"	13	5	4	6	6	7	3	3	4	3	11	4	4	6	8	6	3	3	3	3
	2"	12	4	3	5	5	6	3	3	3	3	10	3	3	5	7	5	3	3	3	3
	1 1/4"	11	3	3	4	4	5	3	3	3	3	9	3	3	4	6	4	3	3	3	3

NOTES:

SPANS AND LOADS SHOWN IN THIS SCHEDULE
ARE FOR DETERMINING ANCHOR SPACING ONLY.
FOR ALLOWABLE SPANS VS. DESIGN LOADS
REFER TO SHEET 4.

MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES
STUCCO AND/OR WALL FINISHES.

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THE STRUCTURE TO WITH STAND THE ADDITIONAL
LOADS AND INSURE PROPER ANCHORAGE.
SHUTTER SYSTEM MAY BE INSTALLED INTO WOOD,
CONCRETE OR MASONRY.

REVISIONS	BY
09/11/98	SP
01/06/06	SP

RAMS ENGINEERING, INC.

Standard Design
1100 E. 7th Street, Suite 101
Mesa, Arizona 85201

METATECH, INC.



7410 W. SECOND CT. MESA, AZ 85201
EST. 1957

BUILDING CODE COMPLIANCE

REV	DATE	BY	CHK
01/10/98			
SHOWN			
6			
7			

PRODUCT REVISED
to comply with the Florida
Building Code
Approved By: 06-0117-05
Expiration Date: 10/10/11
By: Robert S. Monsour
Metatech Building Control
Division

ROBERT S. MONSOUR, PE
EB-0006024
RAMS ENGINEERING, INC.









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CMB

ANCHOR SCHEDULE

WOOD APPLICATIONS

ANCHOR TYPE	
	BRASS WOOD BUSHING
1" MIN. PENETRATION	
	WOOD LAGS
1" MINIMUM TREAD PENETRATION	
	WOOD LAGS
1" MINIMUM TREAD PENETRATION	
	WOOD LAGS
1" MINIMUM TREAD PENETRATION	
	WOOD LAGS
1" MINIMUM TREAD PENETRATION	
	1/4" ELCO PANEL MATES
1 7/8" MIN. THREAD PENETRATION	
	1/4" ELCO PANEL MATES
1 7/8" MIN. THREAD PENETRATION	
VERNUIS HEAD TYPES	
	1/4" MASONRY SCREWS
1 7/8" MIN. THREAD PENETRATION	

NOTES:

SPANS AND LOADS SHOWN IN THIS SCHEDULE ARE FOR DETERMINING ANCHOR SPACING ONLY. FOR ALLOWABLE SPANS VS. DESIGN LOADS REFER TO SHEET 4.

WHEN ANCHORING TO WOOD, THE WOOD MUST BE A MINIMUM 2 X 4 EQUAL TO #2 SOUTHERN PINE 0.55 SPECIFIC GRAVITY AND STRUCTURALLY PART OF THE FRAMING STRUCTURE OR SECURELY ATTACHED TO FRAMING STRUCTURE.

SHADED AREAS REPRESENT ANCHOR CONDITIONS THAT ARE NOT ACCEPTABLE.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THIS STRUCTURE TO WITH STAND THE ADDITIONAL LOADS AND INSURE PROPER ANCHORAGE. SHUTTER SYSTEM MAY BE INSTALLED INTO WOOD, CONCRETE OR MASONRY.

PRODUCT REVIEWED
as complying with the Florida
Building Code
Approved for 06-0117-05
Engineered Date 10/17/2011
By *[Signature]*
Metal Building Control
Division

ROBERT S. MCNEUR, PE
EB-0008024
WWW.ENGINEERING, INC.

REVISIONS	BY
09/11/98	SP
01/06/06	SP

DAMMS ENGINEERING, INC.
Structural Design
1100 W. 7th Street, Suite 201
Miami, Florida 33135
Tel: 305.358.1111
Fax: 305.358.1112
www.damms-engineering.com

METALTECH, INC.
1725 W. SECOND ST. MIAMI, FL 33134
EST. 1957

SEP/08/08
01/10/08
SHOWN
7

BUILDING CODE COMPLIANCE

03.15.00

CWB

2080200
 10 CENTURY
 OFFICE

City of Miami Beach
 Building Department
 Shutter Permit
 OFFICE COPY

Review Type	Initials	Date
Building		
Zoning		

OFFICE COPY
 CITY OF MIAMI BEACH
 APPROVED FOR PERMIT BY
 THE FOLLOWING:

- BUILDING:
- ZONING:
- DISTRICT:
- COMMUNITY:
- PLUMBING:
- ELECTRICAL:
- MECHANICAL:
- FIRE PREVENTION:
- ENGINEERING:
- PAVING WORKS:
- NATURAL:
- LIABILITY:
- INSURANCE:

5/11/08
 [Signature]
 05/11/08

CITY OF MIAMI BEACH
 10152

00100
00100

ASCE 7-02 - WIND LOAD TABLES - 140, 146, 150 mph - Exposure C - Partially Enclosed Building with mean roof height less than or equal than 60 Feet

WIND PRESSURES IN PSF
140 MPH VELOCITY

Building Height	Roof Slope less than 10 degrees		Roof Slope greater than 10 degrees			
	Positive		Positive		Negative	
	z4 & z5	z4	z5	z4 & z5	z4	z5
0-15	52.5	-55.8	-65.5	56.1	-59.7	-70.6
16-20	55.8	-59.2	-69.6	59.6	-63.5	-75.0
21-30	60.7	-64.5	-75.8	64.9	-69.1	-81.7
31-40	64.5	-68.5	-80.6	69.0	-73.4	-86.8
41-50	67.6	-71.8	-84.4	72.3	-77.0	-91.0
51-60	70.3	-74.7	-87.7	75.1	-80.0	-94.5

LOCATION: BROWARD COUNTY, PALM BEACH AND
EXAMPLE: OTHER COUNTIES

WIND PRESSURES IN PSF
146 MPH VELOCITY

Building Height	Roof Slope less than 10 degrees		Roof Slope greater than 10 degrees			
	Positive		Positive		Negative	
	z4 & z5	z4	z5	z4 & z5	z4	z5
0-15	57.1	-60.6	-71.3	61.0	-65.0	-76.8
16-20	60.7	-64.4	-75.7	64.8	-69.0	-81.6
21-30	66.1	-70.2	-82.5	70.6	-75.2	-88.8
31-40	70.2	-74.5	-87.6	75.0	-79.9	-94.4
41-50	73.6	-78.1	-91.8	78.6	-83.7	-98.9
51-60	76.4	-81.2	-95.4	81.7	-87.0	-102.8

MIAMI-DADE COUNTY

WIND PRESSURES IN PSF
150 MPH VELOCITY

Building Height	Roof Slope less than 10 degrees		Roof Slope greater than 10 degrees			
	Positive		Positive		Negative	
	z4 & z5	z4	z5	z4 & z5	z4	z5
0-15	60.3	-64.0	-75.2	64.4	-68.6	-81.0
16-20	64.0	-68.0	-79.9	68.4	-72.9	-86.1
21-30	69.7	-74.1	-87.0	74.5	-79.4	-93.8
31-40	74.1	-78.7	-92.5	79.2	-84.3	-99.6
41-50	77.6	-82.5	-96.9	83.0	-88.4	-104.4
51-60	80.7	-85.7	-100.7	86.3	-91.8	-108.5

MONROE COUNTY

GENERAL NOTES:

1- THESE TABLES MAY BE USED TO CALCULATE THE WINDLOAD FOR COMPONENTS AND CLADDING (HURRICANE SHUTTERS, WINDOWS AND DOORS) APPLICABLE TO A SPECIFIC PROJECT. THE CONTRACTOR MUST PROPERLY SELECT THE DESIGN PRESSURE ACCORDINGLY WITH THE EXISTING CONDITION AND THIS INFORMATION BE VERIFIED BY THE CITY AUTHORITIES.

2- PLEASE NOTE THAT A SPECIFIC PROJECT CONDITION IS NOT ANALYZED OR CERTIFIED BY THIS ENGINEER. THE SIGNATURE AND SEAL INDICATED ON THIS DRAWING IS ONLY APPLICABLE TO THE GENERIC WINDLOAD CHART BASED ON ASCE 7-02 PUBLICATIONS.

3- DO NOT USE THIS SHEET IF THE SITE CONDITION IS NOT COVERED BY THE TABLES OR A SITE SPECIFIC EVALUATION IS REQUIRED BY THE CITY OFFICIALS.

4- IMPORTANCE FACTOR $I = 1.0$ - (Category II Buildings - Tables 1.1 AND 6.5.5)

5- EXPOSURE C (Section 6.5.6) - Open Terrain with scattered obstructions with heights less than 30'

6- BUILDING CONSIDERED PARTIALLY ENCLOSED - Not all glazing in the lower 60 ft are impact resistant or protected with an impact resistant covering. (Section 6.5.9 - Internal pressure $GCP = .55$ - Table 6.7)

7- BASIC WIND SPEED - $V = 140, 146, 150$ MPH

8- TOPOGRAPHIC FACTOR $Kzt = 1$ - (Section 6.5.7 - FLAT TERRAIN)

9- DIRECTIONALITY FACTOR $Kd = .85$ (Section 6.5.4.4 - Wind Directionality Factor)

10- TRIBUTARY AREA: 10 SQF

11- EDGE STRIP (a): The smaller of 10% of the least horizontal dimension or 40% of the Mean Roof Height, but not less than the larger of 4% of the least horizontal dimension or 3 ft.

$$a \leq BW \times 0.1 \text{ or } a \leq h \times 0.4$$

BW less or equal than BL
 a must not be less than
 $a \geq 3$ feet or $a = 0.04 \times BW$

ENGCO, Inc.
Engineering Services - CA 8116

6971 W. SUNRISE BLVD. 104
PLANTATION - FLORIDA 33313
Tel: (954) 585-0304 Fax: (954) 585-0305
E-mail: Engco@AOL.com

FEB 26 2008

PEDRO DE FIGUEIREDO
PE52609
NOT VALID W/OUT SEAL

7/10/2007

00.1.00

040

Building Department

1700 Convention Ctr Drive, 2nd Floor

Miami Beach, Florida 33139

Inspections: (305) 673-7370

Office: (305) 673-7610

Bldg Small Work Permit

04-13-2009

Activity Number: B0902546

Status: APPROVED

Issued By: BUILSANK

Site Address: 10 CENTURY LA MBCH

Parcel #: 32330020100

Applied: 04/13/2009

Approved: 04/13/2009

Completed:

To Expire: 10/10/2009

Valuation: \$1,870.00

Applicant: OCEAN SHUTTERS MANUFACTURING INC
HERIBERTO SANCHEZ

3561 N E 13TH AV

FT LAUDERDALE 33334

954-489-9797

Property Owner:

10 CENTURY LN

MIAMI BEACH FL 331398803

Description: INTALL 2 ACCORDION HURRICANE SHUTERS.

Inspector Area: S

Class Code: R3

DETAIL LIST

Alteration/Repair Fees

Alteration Bulding/Structures - Per Costs:	\$0.00	\$63.00
Awning, Canopy, Patio Cover - Per Costs:	\$0.00	\$0.00
Area Under Roof - RADON - Per Sq.Ft.:	0	\$0.00
Walk-Thru - Per Valuation:	\$0.00	\$75.00
Repairs to Building/Structure - Per Costs:	\$0.00	\$0.00
Roofing or Re-roofing - Per Sq.Ft.:	0	\$0.00
Window/Doors - Per # of:	0	\$0.00
Signs 36-4 (Writer/Erect) - Per Sq.Ft.:	0	\$0.00
Fence and/or Wall - Per Linear Feet:	0	\$0.00
Partial Demo (Struct, Sign, Wall) - Per Costs:	\$0.00	\$0.00
Swimming Pool - Per Gallon:	0	\$0.00
Painting - Per Costs:	\$0.00	\$0.00
Sandblasting - Per Costs:	\$0.00	\$0.00
Paving - Per Sq.Ft.:	0	\$0.00
Concrete Slab - No Paving - Per Sq.Ft.:	0	\$0.00
Trees - Per # of:	0	
Hedges - Per Linear Feet:	0	
Groundcover - Per Sq.Ft.:	0	
Landscaping Fee:		\$0.00
Other Fees:		\$0.00
Penalty Fee (If Applicable):		\$0.00

PAID
APR 13 2009
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

Activity Number: B0902546**Fire Safety Fees**

New Building or Addition - Per Sq.Ft.:	0	\$0.00
Storage/Industrial Bldg - E & F Occup - Per Sq.Ft.:	0	\$0.00
Greenhouse/Argiculture on Premises - Per Sq.Ft.:	0	\$0.00
Screen Enclsoure/Trail on Premises - Per Sq.Ft.:	0	\$0.00
SS Underground Tanks/App Shelter - Per #:	0	\$0.00
Construction not shown Above - Per Costs:	\$0.00	\$0.00
Alt/Repair Building/Structure - Per Costs:	\$0.00	\$0.00

Marine Structure Fee

Dock Area - Per Sq.Ft.:	0	\$0.00
Seawall - Per Linear Feet:	0	\$0.00
Boat Lifts, Davits, Hoist - Per # of:	0	\$0.00
Batter, Mooring, Dock Piles - Per # of:	0	\$0.00
Marine Structure Alt/Repair - Per Costs:	\$0.00	\$0.00

SFBC Compliance Surcharge

New Const/Add - Res/Mult-Fam/Comm - Per Sq.Ft.:	0	\$0.00
New Const/Add - Strg/Ind/Msc - Per Sq.Ft.:	0	\$0.00
Cost for Other Construction:		\$0.00

Training Fee

Training Fee:		\$2.00
Sanitation Fee:		\$20.00

Additional Fees

1st Reinspection:		\$0.00
Continued Reinspections - Per # of:	0	\$0.00
Building Joint Inspections - Per # of:	0	\$0.00
Change of Contractor Per # of:	0	\$0.00
Permit Extension - Per # of:	0	\$0.00

Residential Card:		
Commercial Card:		
Permit Card Replacements:		\$0.00
Lost Plan Fee - SF:		\$0.00
Lost Plan Fee - Other:		\$0.00
Overtime Inspection Fees:		<u>\$0.00</u>

Total of All Fees:		\$101.20
Total of Payments:		\$101.20
Balance Due:		\$0.00



MIAMIBEACH

BUILDING DEPARTMENT
1700 Convention Center Drive
Miami Beach, FL 33139
Office: 305-673-7610 Fax: 305-673-7857

#5101 20

WORK PERMIT APPLICATION

FLORIDA BUILDING CODE IN EFFECT

Date _____

Permit # B0902546

Folio # 02-3233-002-0100 Job Address 10 Century Lane Miami Bch, FL 33139

If subsidiary or revision: provide the Master building permit number here B: _____

IS THIS PERMIT ASSOCIATED WITH A VIOLATION? If so; BV # _____

Is this a City Owned Property? ☐ Yes ☒ No HISTORIC DISTRICT ☐ Yes ☒ No

Type of Property: ☒ Single Family ☐ Commercial ☐ Multi-Family/Condo ☐ *Condo Conversion

Type of Permit: ☒ Building ☐ Electrical ☐ Plumbing ☐ Mechanical

Type of Improvement: ☐ New Construction ☒ Renovation ☐ Demolition - Year Built _____

Type of Change: ☐ Change of Contractor ☐ Change of Architect/Engineer ☐ Revision

Description of Work: # of Units _____ # of Stories _____

INSTALL 2 Accordion Hurricane Shutters.

☐ New Construction/Addition: Job Value \$ _____ Sq Ft _____

☒ Alteration/Remodel/Renovation: Job Value \$ 1870 Sq Ft 80.03

☐ OTHER - Job Value \$ _____ Sq Ft _____ Linear Ft _____ Pool/Spa Gallonage _____

Owner's Name Heriberto Sanchez Drivers License No. 5522-320-63-047-0

Address 10 Century Lane Unit # _____

City/State/Zip Miami Bch Phone 786-274-8332 Email _____

Tenant's Name N/A Address _____

City/State/Zip _____ Phone _____ Email _____

Fee Simple Title Holder's Name (if other than owner) N/A

Address _____

City/State/Zip _____ Phone _____ Email _____

Contractor Ocean Shutters Mfg. Inc License No. CGC1516523 Cell # _____

Address 1031 SW 30th Avenue

City/State/Zip Deerfield Bch, FL 33442 Office # 954-489-9797 Email liz@oceanshuttersmfg.com

Architect N/A License No. _____ Cell # _____

Address _____

City/State/Zip _____ Office # _____ Email _____

Engineer N/A License No. _____ Cell # _____

Address _____

City/State/Zip _____ Office # _____ Email _____

The first part of the report deals with the general situation of the company and the results of the work done during the period. It is followed by a detailed account of the work done in each of the departments, and a summary of the results of the work done in each of the departments.

The second part of the report deals with the financial results of the company. It is followed by a detailed account of the work done in each of the departments, and a summary of the results of the work done in each of the departments.

The third part of the report deals with the personnel of the company. It is followed by a detailed account of the work done in each of the departments, and a summary of the results of the work done in each of the departments.

The fourth part of the report deals with the general management of the company. It is followed by a detailed account of the work done in each of the departments, and a summary of the results of the work done in each of the departments.

The fifth part of the report deals with the general management of the company. It is followed by a detailed account of the work done in each of the departments, and a summary of the results of the work done in each of the departments.

The sixth part of the report deals with the general management of the company. It is followed by a detailed account of the work done in each of the departments, and a summary of the results of the work done in each of the departments.

The seventh part of the report deals with the general management of the company. It is followed by a detailed account of the work done in each of the departments, and a summary of the results of the work done in each of the departments.

The eighth part of the report deals with the general management of the company. It is followed by a detailed account of the work done in each of the departments, and a summary of the results of the work done in each of the departments.

Bonding Company Name N/A
Address _____
City/State/Zip _____ Phone _____
Mortgage Lender's Name N/A
Address _____
City/State/Zip _____ Phone _____

This application is hereby made to obtain a permit to do the work and installations as indicated. I certify that all work will be performed to meet the standards of all laws and construction regulations in this jurisdiction. I understand that a separate permit must be secured for Electrical Work, Plumbing, Signs, Wells, Pools, Furnaces, Boilers, Heaters, Tanks, and Air Conditioners, Etc.

***CONDO CONVERSIONS** are a change use of the building and require a new certificate of occupancy. If this application implies a condo conversion, it shall be clearly stated in the description and on the plans; otherwise, the certificate of occupancy will be denied.

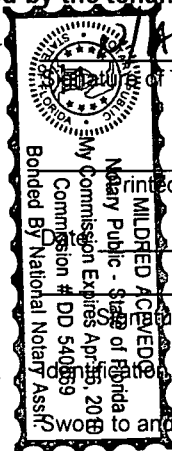
OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and Zoning.

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.

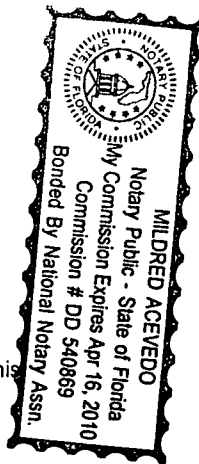
Under penalties of perjury, I declare that to the best of my knowledge, the facts stated in this document are true. Any information found to be false may cause the revocation and/or denial of the permit and/or certificate of occupancy.

If the contractor is going to be hired by the tenant, check here. ☐

Herberto Sanchez
Signature of Owner or Agent
Herberto Sanchez
Printed Name of Owner or Agent
Date 4/7/09
M. Acevedo
Signature of Notary Public
Identification ✓ FL. D/L
Sworn to and subscribed before me this 7th day of April, 2009
(SEAL)



[Signature]
Signature of Qualifier
John Fitch
Printed Name of Qualifier
Date 4/7/09
M. Acevedo
Signature of Notary Public
Identification Known
Sworn to and subscribed before me this 7th day of April, 2009
(SEAL)



If you are applying for this permit as Owner/Builder, please sign below only

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. NOTICE OF COMMENCEMENT SHOULD BE FILED AT: 22 NW 1ST STREET, MIAMI, FL

STATE OF FLORIDA

Herberto Sanchez
Print Owner's Name

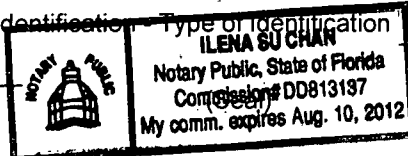
COUNTY OF Miami Dade

Herberto Sanchez
Owner's Signature

Sworn to and subscribed before me this 18 day of March, 2009, by: Herberto Sanchez

() Personally Known (X) Produced Identification Type of Identification

[Signature]
Signature of Notary Public



Application Approved By: _____ (Permit Clerk)

Florida Driver License # S522320630470
Exp. 2/1/12

[illegible]

— *Journal of the American Medical Association*, 1997

PART TWO: OWNER AFFIDAVIT: TO BE SUBMITTED PRIOR TO PERMIT ISSUANCE.

I Heriberto Sanchez am the Owner of the property undergoing an improvement as described in the permit above. I understand that at the time the Contractor submits the application for a Certificate of Occupancy (CO) or Certificate of Completion (CC), I will be required to submit to the City of Miami Beach Building Department verification of construction cost. The City will accept the most current "AIA Document G702/G703" Application for Payment approved at the time the application for the Certificate of Occupancy (CO) or Certificate of Completion (CC) is submitted to the Building Department as verification of construction cost.

I understand that as the Owner of said property and improvement, I am responsible to pay the City of Miami Beach any difference between the permit fee based on the construction cost and/ or square footage submitted with the original permit application and the permit fee based on the final construction cost including general conditions and/or final square footage as certified by the Owner, Architect and Contractor on the most current "AIA Document G702/G703" Application for Payment approved at the time the application for the Certificate of Occupancy (CO) or Certificate of Completion (CC) is submitted to the Building Department.

Heriberto Sanchez
Signature of Owner

STATE OF FLORIDA

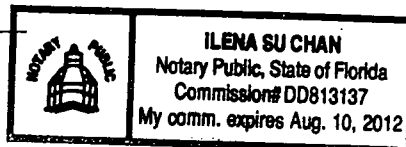
COUNTY OF Miami Dade

Sworn to and subscribed before me this 18 day of March 2009 by: Heriberto Sanchez

[] Personally known ☒ Procured Identification – Type of Identification Florida Driver License

SS22320630470 Exp. 2/21/12

Ilana Su Chan
Signature of Notary Public



***Note:** It is the intention of the City of Miami Beach to use the Architect's Estimate of Construction Cost as a "Good Faith" estimate for the purpose of calculating the initial permit fee. The City agrees to hold the Architect and/or Owner harmless from any liability, professional or otherwise due to any difference in the Architect's estimate of construction cost and the construction cost as submitted by the Owner and/or Contractor at the time of Completion. The Owner will be responsible to pay the City of Miami Beach any difference between the permit fee based on the construction cost and/or square footage submitted with the original permit application and the permit fee based on the final construction cost including general conditions and/or square footage as certified by the Owner, Architect and Contractor on the most current "AIA Document G702/G703" Application for Payment approved at the time the application for the Certificate of Occupancy (CO) or Certificate of Completion (CC) is submitted to the Building Department.



KNEZEVICH ASSOCIATES

CONSULTING ENGINEERS

V. JOHN KNEZEVICH, P.E.

February 2, 2009

Ms. Lucille Marino
Association of Shutter Professionals
1031 SW 30th Avenue
Deerfield Beach, FL 33442

Re: Pro-Tech - Pro Series I Accordion Shutter

Dear Ms. Marino:

Friday, January 30, 2009, the following Impact tests, on Centermate Locks, were successfully performed on 104" tall samples, in accordance with TAS 201 of the Florida Building Code (FBC), at Construction Testing Corporation (CTC), located in Hollywood, FL. (CTC is a Miami-Dade and FBC approved testing facility):

1. Twist-Push Button Lock on the inside of the test sample's In-Blade Centermate
2. Thumb Screw Lock on the inside of the test sample's In-Blade Centermate

In accordance with previous approved testing, any installation greater than 104" will require two (2) of one of the above locks in an In-Blade type Centermate. Each lock would be located at a distance that is 1/3 from the top and 1/3 from the bottom of the installation.

As a result of the above testing, the Twist-Push Button Lock and the Thumb Screw Lock may be used on the inside of the subject accordion when installed in the High Velocity Hurricane Zone or any other area recognizing the FBC or the Miami-Dade Product Approvals.

If there are any further questions, please contact me at 954-821-6933.

Sincerely,
KNEZEVICH ASSOCIATES

V. John Knezevich, PE
Florida license No. 10983
COA No. 27989

0303



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

Heriberto Sanchez

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

www.miamidade.gov

NOTICE OF ACCEPTANCE (NOA)

AllGuard, Inc.
6245 Powerline Road
Ft. Lauderdale, Florida 33309

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: "ASP / Pro Series I" Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No. 07-376, titled "Pro Series I Accordion Shutter", sheets 1 through 6 of 6, prepared by Thornton Tomasetti, dated February 20, 2007, last revision #2 dated July 03, 2007, signed and sealed by J.W. Knezevich, 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

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
09/13/2007

NOA No. 07-0606.06
Expiration Date: 09/13/2012
Approval Date: 09/13/2007
Page 1

020
200

AllGuard, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 07-376, titled " Pro Series I Accordion Shutter ", sheets 1 through 6 of 6, prepared by Thornton Tomasetti, dated February 20, 2007, last revision #2 dated July 03, 2007, signed and sealed by J.W. Knezevich, P.E.*

B. TESTS

1. *See Association's generic approval under 07-2878.*

C. CALCULATIONS

1. *See Association's generic approval under 07-2878.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *See Association's generic approval under 07-2878.*

F. STATEMENTS

1. *Release letter issued by the Association of Shutter Professionals, Inc., dated May 01, 2007, certifying this product to meet the criteria of product tested and approved, and allowing AllGuard, Inc. to use the test results approved under Miami-Dade County Approval No. 07-2878, signed by Mr. Scott Grushoff.*
2. *Acknowledgment letter by AllGuard, Inc., dated May 01, 2007, signed by Mr. John DelGardo.*
3. *Letter by Tilteco Inc., dated May 17, 2007, certifying that the drawing (No. 07-376) prepared for AllGuard, Inc., signed and sealed by Mr. John W. Knezevich, P.E., is engineering wise identical to ASP's generic drawing (No. 06-471).*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 07-0606.06
Expiration Date: 09/13/2012
Approval Date: 09/13/2007

0203

CONTRACTOR:

ADDRESS:

PHONE:

OCEAN SHUTTERS MANUFACTURING, INC.

1031 S.W. 30th AVENUE

DEERFIELD BEACH, FL 33442

TOLL FREE: 1-888-489-9797

JOB NAME:

JOB ADDRESS:

JOB NUMBER:

OF OPENINGS:

WIND SPEED:

MEAN ROOF HEIGHT:

MAX SPAN:

Heriberto Sanchez

10 Century Lane

0936124H

2

146 MPH

EXPOSURE

14'

PSF'S:

11'10"/142"

DATE:

CITY:

ZIP:

3/24/09

Miami Beach

33139

INT. ROUTE:

80.03

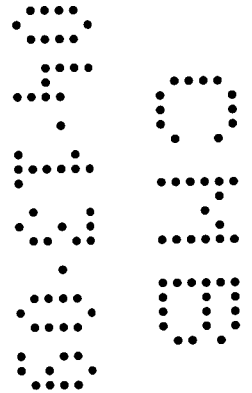
"C"

WORST CASE=

-62.2/+46.5

PRO SERIES I ACCORDION WORKSHEET

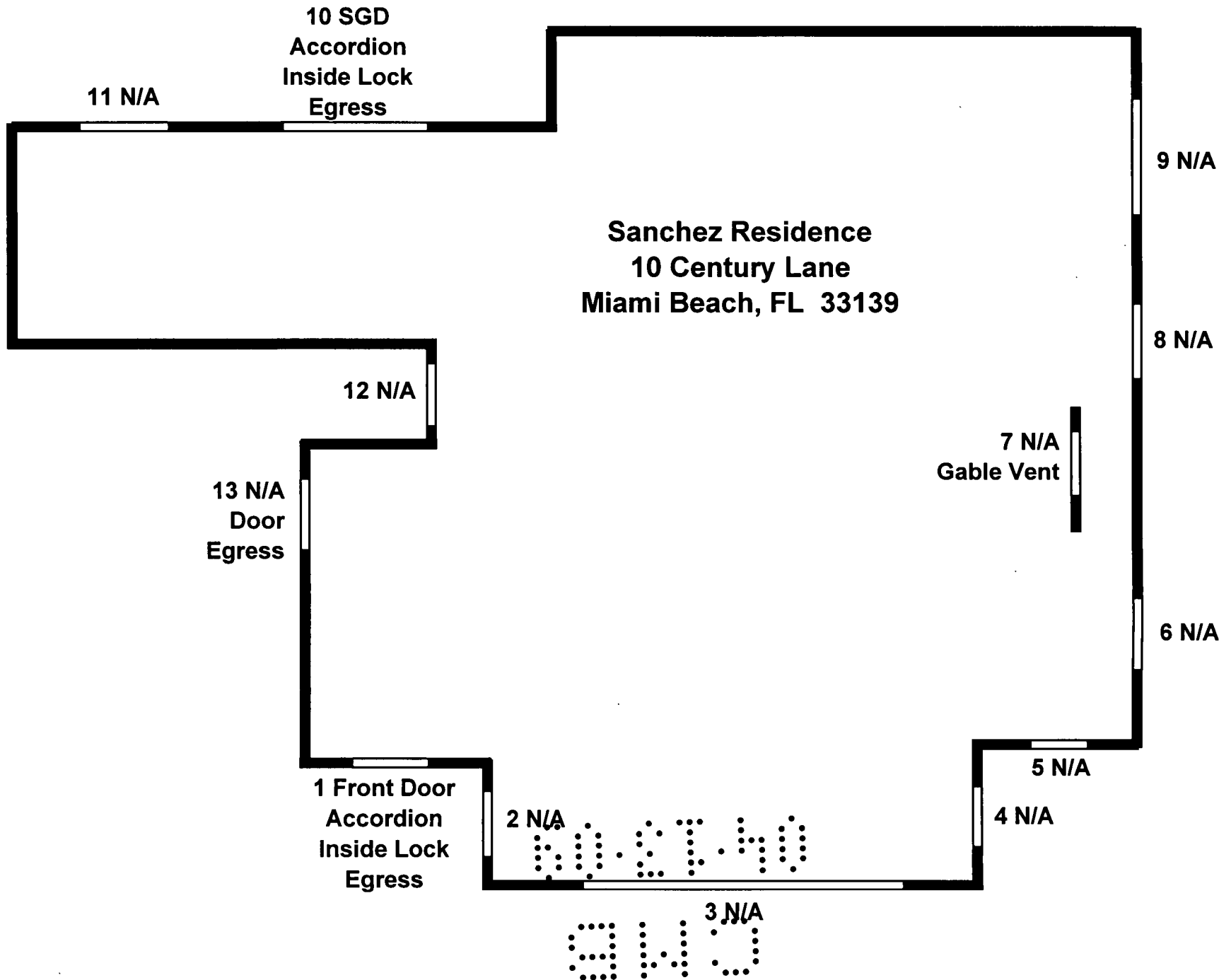
<u>OPENING #</u>	<u>CLEAR OPENING</u>	<u>TRACK</u>	<u>ANGLE</u>	<u>SQUARE FOOT</u>
1	40 x 88.75	48.125	93.75	31.33
10	71.5 x 80	82.5	85	48.70
TOTAL				80.03



NOTICE: In addition to the requirement of this permit, there may be additional restrictions applicable to this property that may be found in the Public Records of this County, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies. The City of Miami Beach assumes no responsibility for accuracy of or results from these plans which are approved subject to compliance with all Federal, State, and Local Laws, Rules, and Regulations.

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04-13-00

CMB

2007 FLORIDA BUILDING CODE & ASCE 7-05 DESIGN LOADS FOR COMPONENTS AND CLADDING

WIND VELOCITY=146 MPH
EXPOSURE 'C'

MRH=0-60'
BASED ON Kd=0.85
SEE TABLE NOTES
FOR ALT Kd

INTERIOR ZONE 4 PRESSURES

Mean Roof Height	DESIGN PRESSURES (PSF) - Zone 4									
	Tributary Area (Sq Ft)									
	10	15	20	25	30	35	40	45	50	
0 - 15 ft	-50.4 +46.5	-49.2 +45.2	-48.3 +44.4	-47.6 +43.7	-47.1 +43.1	-46.6 +42.7	-46.2 +42.3	-45.9 +41.9	-45.5 +41.6	
16 ft	-51.1 +47.1	-49.8 +45.9	-49.0 +45.0	-48.3 +44.3	-47.7 +43.7	-47.3 +42.9	-46.8 +42.5	-46.5 +42.2	-46.2 +42.2	
18 ft	-52.4 +48.3	-51.1 +47.0	-50.2 +46.1	-49.5 +45.4	-48.9 +44.8	-48.4 +44.3	-48.0 +43.9	-47.7 +43.6	-47.3 +43.2	
20 ft	-53.5 +49.4	-52.2 +48.1	-51.3 +47.1	-50.6 +46.4	-50.0 +45.8	-49.5 +45.3	-49.1 +44.9	-48.7 +44.5	-48.4 +44.2	
22 ft	-54.6 +50.4	-53.3 +49.0	-52.4 +48.1	-51.6 +47.4	-51.0 +46.8	-50.5 +46.3	-50.1 +45.8	-49.7 +45.4	-49.4 +45.1	
24 ft	-55.6 +51.3	-54.3 +49.9	-53.3 +49.0	-52.6 +48.2	-52.0 +47.6	-51.5 +47.1	-51.0 +46.7	-50.6 +46.3	-50.3 +45.9	
26 ft	-56.6 +52.2	-55.2 +50.8	-54.2 +49.8	-53.5 +49.1	-52.9 +48.4	-52.3 +47.9	-51.9 +47.5	-51.5 +47.1	-51.1 +46.7	
28 ft	-57.5 +53.0	-56.1 +51.6	-55.1 +50.6	-54.3 +49.8	-53.7 +49.2	-53.2 +48.7	-52.7 +48.2	-52.3 +47.8	-51.9 +47.4	
30 ft	-58.3 +53.8	-56.9 +52.3	-55.9 +51.3	-55.1 +50.6	-54.5 +49.9	-53.9 +49.4	-53.5 +48.9	-53.1 +48.5	-52.7 +48.1	
32 ft	-59.1 +54.5	-57.7 +53.1	-56.7 +52.0	-55.9 +51.3	-55.2 +50.6	-54.7 +50.1	-54.2 +49.6	-53.8 +49.2	-53.4 +48.8	
34 ft	-59.9 +55.2	-58.4 +53.7	-57.4 +52.4	-56.6 +51.9	-55.9 +51.3	-55.4 +50.7	-54.9 +50.2	-54.5 +49.8	-54.1 +49.4	
36 ft	-60.6 +55.9	-59.1 +54.4	-58.1 +53.3	-57.3 +52.5	-56.6 +51.9	-56.1 +51.3	-55.6 +50.8	-55.1 +50.4	-54.8 +50.0	
38 ft	-61.3 +56.5	-59.8 +55.0	-58.7 +54.0	-57.9 +53.1	-57.3 +52.5	-56.7 +51.9	-56.2 +51.4	-55.8 +51.0	-55.4 +50.6	
40 ft	-62.0 +57.1	-60.5 +55.6	-59.4 +54.5	-58.6 +53.7	-57.9 +53.0	-57.3 +52.5	-56.8 +52.0	-56.4 +51.5	-56.0 +51.1	
42 ft	-62.6 +57.7	-61.1 +56.2	-60.0 +55.1	-59.2 +54.3	-58.5 +53.6	-57.9 +53.0	-57.4 +52.5	-57.0 +52.1	-56.6 +51.7	
44 ft	-63.2 +58.3	-61.7 +56.7	-60.6 +55.7	-59.7 +54.8	-59.1 +54.1	-58.5 +53.5	-58.0 +53.0	-57.5 +52.6	-57.1 +52.2	
46 ft	-63.8 +58.8	-62.3 +57.3	-61.2 +56.2	-60.3 +55.3	-59.6 +54.6	-59.0 +54.0	-58.5 +53.5	-58.1 +53.1	-57.7 +52.7	
48 ft	-64.4 +59.4	-62.8 +57.8	-61.7 +56.7	-60.8 +55.8	-60.1 +55.1	-59.6 +54.5	-59.0 +54.0	-58.6 +53.6	-58.2 +53.1	
50 ft	-64.9 +59.9	-63.4 +58.3	-62.2 +57.2	-61.4 +56.3	-60.7 +55.6	-60.1 +55.0	-59.5 +54.5	-59.1 +54.0	-58.7 +53.6	
52 ft	-65.5 +60.4	-63.9 +58.8	-62.8 +57.6	-61.9 +56.8	-61.2 +56.1	-60.6 +55.4	-60.0 +54.9	-59.6 +54.5	-59.2 +54.0	
54 ft	-66.0 +60.8	-64.4 +59.2	-63.3 +58.1	-62.4 +57.2	-61.7 +56.5	-61.0 +55.9	-60.5 +55.4	-60.1 +54.9	-59.6 +54.5	
56 ft	-66.5 +61.3	-64.9 +59.7	-63.7 +58.5	-62.9 +57.7	-62.1 +56.9	-61.5 +56.3	-61.0 +55.8	-60.5 +55.3	-60.1 +54.9	
60 ft	-67.5 +62.2	-65.8 +60.6	-64.7 +59.4	-63.8 +58.5	-63.0 +57.8	-62.4 +57.1	-61.9 +56.6	-61.5 +56.1	-61.0 +55.7	

EXTERIOR ZONE 5 PRESSURES

Mean Roof Height	DESIGN PRESSURES (PSF) - Zone 5									
	Tributary Area (Sq Ft)									
	10	15	20	25	30	35	40	45	50	
0 - 15 ft	-62.2 +46.5	-59.8 +45.2	-58.0 +44.4	-56.7 +43.7	-55.6 +43.1	-54.6 +42.7	-53.8 +42.3	-53.1 +41.9	-52.5 +41.6	
16 ft	-63.1 +47.1	-60.6 +45.9	-58.8 +45.0	-57.5 +44.3	-56.3 +43.7	-55.4 +43.3	-54.6 +42.9	-53.9 +42.5	-53.2 +42.2	
18 ft	-64.6 +48.3	-62.1 +47.0	-60.3 +46.1	-58.9 +45.4	-57.8 +44.8	-56.8 +44.3	-55.9 +43.9	-55.2 +43.6	-54.5 +43.2	
20 ft	-66.1 +49.4	-63.5 +48.1	-61.6 +47.1	-60.2 +46.4	-59.0 +45.8	-58.1 +45.3	-57.2 +44.9	-56.4 +44.5	-55.8 +44.2	
22 ft	-67.4 +50.4	-64.8 +49.0	-62.9 +48.1	-61.4 +47.4	-60.2 +46.8	-59.2 +46.3	-58.4 +45.8	-57.6 +45.4	-56.9 +45.1	
24 ft	-68.7 +51.3	-66.0 +49.9	-64.1 +49.0	-62.6 +48.2	-61.4 +47.6	-60.3 +47.1	-59.4 +46.7	-58.7 +46.3	-58.0 +45.9	
26 ft	-69.8 +52.2	-67.1 +50.8	-65.1 +49.8	-63.6 +49.1	-62.4 +48.4	-61.4 +47.9	-60.4 +47.5	-59.6 +47.1	-58.9 +46.7	
28 ft	-70.9 +53.0	-68.2 +51.6	-66.2 +50.6	-64.6 +49.8	-63.4 +49.2	-62.3 +48.7	-61.4 +48.2	-60.6 +47.8	-59.9 +47.4	
30 ft	-72.0 +53.8	-69.2 +52.3	-67.1 +51.3	-65.6 +50.6	-64.3 +49.9	-63.2 +49.4	-62.3 +48.9	-61.5 +48.5	-60.7 +48.1	
32 ft	-73.0 +54.5	-70.1 +53.1	-68.1 +52.0	-66.5 +51.3	-65.2 +50.6	-64.1 +50.1	-63.1 +49.6	-62.3 +49.2	-61.6 +48.8	
34 ft	-73.9 +55.2	-71.0 +53.7	-68.9 +52.7	-67.3 +51.9	-66.0 +51.3	-64.9 +50.7	-64.0 +50.2	-63.1 +49.8	-62.4 +49.4	
36 ft	-74.8 +55.9	-71.9 +54.4	-69.8 +53.3	-68.1 +52.5	-66.8 +51.9	-65.7 +51.3	-64.7 +50.8	-63.9 +50.4	-63.1 +50.0	
38 ft	-75.7 +56.5	-72.7 +55.0	-70.6 +54.0	-68.9 +53.1	-67.6 +52.5	-66.5 +51.9	-65.5 +51.4	-64.6 +51.0	-63.8 +50.6	
40 ft	-76.5 +57.1	-73.5 +55.6	-71.3 +54.5	-69.7 +53.7	-68.3 +53.0	-67.2 +52.5	-66.2 +52.0	-65.3 +51.5	-64.5 +51.1	
42 ft	-77.3 +57.7	-74.2 +56.2	-72.1 +55.1	-70.4 +54.3	-69.0 +53.6	-67.9 +53.0	-66.9 +52.5	-66.0 +52.1	-65.2 +51.7	
44 ft	-78.0 +58.3	-75.0 +56.7	-72.8 +55.7	-71.1 +54.8	-69.7 +54.1	-68.5 +53.5	-67.5 +53.0	-66.6 +52.6	-65.8 +52.2	
46 ft	-78.8 +58.8	-75.7 +57.3	-73.5 +56.2	-71.8 +55.3	-70.4 +54.6	-69.2 +54.0	-68.2 +53.5	-67.3 +53.1	-66.5 +52.7	
48 ft	-79.5 +59.4	-76.3 +57.8	-74.1 +56.7	-72.4 +55.8	-71.0 +55.1	-69.8 +54.5	-68.8 +54.0	-67.9 +53.6	-67.1 +53.1	
50 ft	-80.2 +59.9	-77.0 +58.3	-74.8 +57.2	-73.0 +56.3	-71.6 +55.6	-70.4 +55.0	-69.4 +54.5	-68.5 +54.0	-67.6 +53.6	
52 ft	-80.8 +60.4	-77.6 +58.8	-75.4 +57.6	-73.6 +56.8	-72.2 +56.1	-71.0 +55.4	-69.9 +54.9	-69.0 +54.5	-68.2 +54.0	
54 ft	-81.5 +60.8	-78.3 +59.2	-76.0 +58.1	-74.2 +57.2	-72.8 +56.5	-71.6 +55.9	-70.5 +55.4	-69.6 +54.9	-68.7 +54.5	
56 ft	-82.1 +61.3	-78.9 +59.7	-76.6 +58.5	-74.8 +57.7	-73.3 +56.9	-72.1 +56.3	-71.0 +55.8	-70.1 +55.3	-69.3 +54.9	
60 ft	-83.3 +62.2	-80.0 +60.6	-77.7 +59.4	-75.9 +58.5	-74.4 +57.8	-73.2 +57.1	-72.1 +56.6	-71.1 +56.1	-70.3 +55.7	

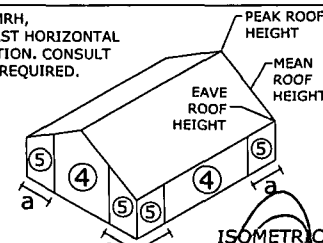
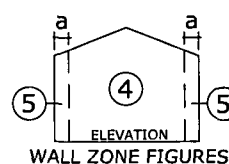
INSTRUCTIONS FOR TABLE USE:

1. TABLES ARE INTENDED TO DEPICT THE 'WORST CASE' PRESSURES. 'WORST CASE' IS DEFINED AS THE CRITICAL CONDITION OF ANY UNKNOWN VARIABLE AS DESCRIBED BELOW. USE OF CRITICAL CONDITIONS REQUIRED FOR USE WITH THESE TABLES.
2. FOR SITUATIONS THAT REQUIRE Kd=1.0, TABLE VALUES ARE UNDER-DESIGNED BY A FACTOR OF 1.18. VERIFY Kd REQUIREMENTS WITH LOCAL MUNICIPALITY PRIOR TO TABLE USE.
3. USE OF TABLES VALID ONLY FOR BUILDINGS LESS THAN 60' MEAN ROOF HEIGHT.
4. TABLES VALID FOR ALL ROOF SLOPES. REDUCTIONS FOR ROOF SLOPES LESS THAN 10° SHALL BE PERFORMED BY AN ENGINEER AS A SITE SPECIFIC CONDITION.
5. IDENTIFY THE BUILDING MEAN (AVERAGE) ROOF HEIGHT. IF THE MEAN ROOF HEIGHT CANNOT BE IDENTIFIED, USE THE PEAK ROOF HEIGHT.
6. ALWAYS ROUND UP ROOF HEIGHTS TO NEXT TABLE VALUE OR TO A CONSERVATIVE ASSUMPTION.
7. CALCULATE THE TRIBUTARY AREA OF THE OPENING IN QUESTION (HEIGHT * WIDTH) OR THE SPAN LENGTH (HEIGHT) MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH (HEIGHT² / 3). USE THE AREA BETWEEN STRUCTURAL OPENINGS ONLY- THIS INCLUDES AREAS BETWEEN STRUCTURAL MULLS. IF THE TRIBUTARY AREA OF AN OPENING CANNOT BE IDENTIFIED, THE MOST CRITICAL (10 SQUARE FEET) SHALL BE USED. ALWAYS ROUND TRIBUTARY AREA DOWN TO THE LESSER TABLE VALUE. FOR LARGER TRIBUTARY AREAS THAN PUBLISHED, USE THE LARGEST PUBLISHED VALUE.
8. IDENTIFY THE ZONE OF THE OPENING AS INTERIOR (ZONE 4) OR EXTERIOR (ZONE 5) PER THE FIGURE OR INFORMATION BY OTHERS. ANY QUESTIONABLE OPENING IS TO BE CONSIDERED THE MORE CRITICAL (EXTERIOR) ZONE.
9. READ OFF POSITIVE AND NEGATIVE PRESSURES FOR USE AS REQUIRED BY THE LOCAL MUNICIPALITY IN ACCORDANCE WITH CODE.

GENERAL NOTES:

1. THESE CHARTS ARE NOT VALID AS A SITE-SPECIFIC DRAWING. THESE TABLES ARE ONLY VALID WHEN SIGNED & RAISED SEALED BY FRANK L. BENNARD, P.E.
2. THIS SPECIFICATION IS INTENDED TO ILLUSTRATE DESIGN WIND PRESSURES AS LISTED. USE OF THESE TABLES AND CORRESPONDING WIND VELOCITY, EXPOSURE, AND OTHER COEFFICIENTS LISTED HEREIN SHALL BE DICTATED AND VERIFIED BY THE GOVERNING BUILDING DEPARTMENT AND PERMIT HOLDER. NO WARRANTY FOR APPLICABILITY OF TABLE VALUE USE IS OFFERED HEREIN.
3. THIS SPECIFICATION IS NOT INTENDED TO OFFER ANY PRODUCT APPROVED CERTIFICATION. REFER TO ANY SEPARATELY SUBMITTED TEST CRITERIA AND OTHER APPROVALS FOR DESIGN & INSTALLATION INFORMATION AND APPLICABILITY OF THESE TABLE VALUES WHICH IS TO BE VERIFIED BY OTHERS IN ACCORDANCE WITH GOVERNING CODES.
4. DESIGN IS BASED ON THE 3 SECOND GUST (WIND VELOCITY) FOR A CATEGORY II (GENERAL RESIDENTIAL & COMMERCIAL CONSTRUCTION) USING AN IMPORTANCE FACTOR I=1.0. THESE TABLES NOT FOR USE WITH ESSENTIAL FACILITIES OR ASSEMBLY OCCUPANCIES. TOPOGRAPHIC FACTOR Kzt=1.0 FOR FLAT TERRAIN USE ONLY. THESE TABLES NOT VALID FOR HILLY TERRAIN. INTERNAL PRESSURE COEFFICIENT (GCp)=+/-0.18 ENCLOSED BUILDING ONLY. VERIFY USE OF Kd=0.85 (DIRECTIONALITY FACTOR) WITH LOCAL BUILDING DEPARTMENT. HHVZ = HIGH VELOCITY HURRICANE ZONE. TABLES ARE FOR WALLS AND VERTICAL SURFACES ONLY.
5. ADHERE TO ALL LOCAL IMPACT PROTECTION SYSTEM ORDINANCES.
6. NO CERTIFICATION IS OFFERED FOR THE INTEGRITY OF THE HOST STRUCTURE.
7. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

a = 10% OF LEAST HORIZONTAL DIMENSION OR 40% OF MRH, WHICHEVER IS SMALLER, BUT NOT LESS THAN 4% OF LEAST HORIZONTAL DIMENSION OR 3FT (1m). USE ZONE 5 IF AT ALL IN QUESTION. CONSULT AN ENGINEER FOR A MORE SPECIFIC INTERPRETATION IF REQUIRED.



SCALE: N.T.S.
PAGE DESCRIPTION:
SKU 5161

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CL	FLB	04/19/06
REVISE FOR 07 FBC	TSB	FLB	02/23/09

THIS DOCUMENT IS THE PROPERTY OF FRANK L. BENNARD, P.E. AND SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF FRANK L. BENNARD, P.E.
** ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.

2007 FLORIDA BUILDING CODE
ASCE 7-05, MRH 0-60 FT
DESIGN LOADS FOR
COMPONENTS & CLADDING

ENGINEERING EXPRESS®

160 SW 12th AVENUE, #106
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0443
WWW.ENGEXP.COM
CERT OF AUTH #9885

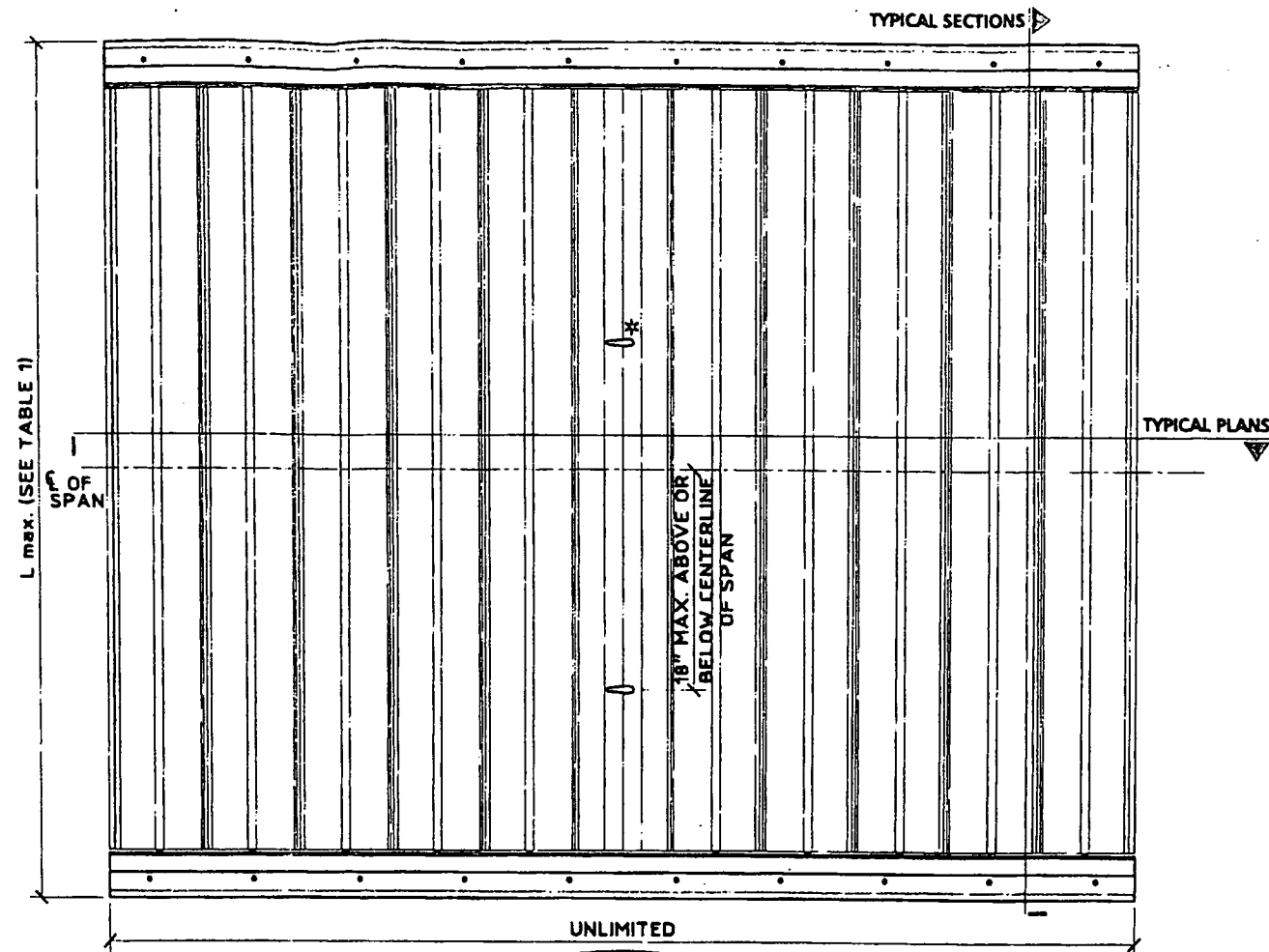
VALID FOR FLA 08-04-06 ONLY
MAID ONLY WITH RAISED ENGINEER SEAL
03/02/2009
FRANK L. BENNARD, P.E.
#F004549

04-12-00

CWB

GENERAL NOTES:

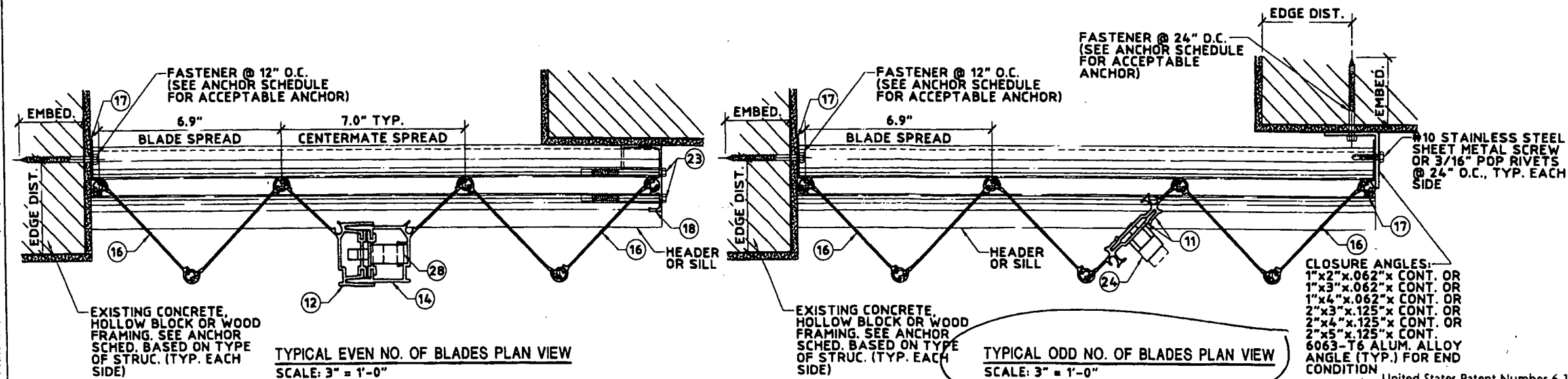
1. THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A SHUTTER SYSTEM ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE FLORIDA BUILDING CODE 2004 WITH 2005 & 2006 SUPPLEMENTS.
2. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW DESIGN.
3. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7-02, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ SHALL BE USED.
4. THESE PRODUCT EVALUATION DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
5. USE OF THESE PRODUCT EVALUATION DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
6. THESE PRODUCT EVALUATION DOCUMENTS ARE INTENDED FOR USE ONLY BY A LICENSED CONTRACTOR, PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AND ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN. CONTRACTOR SHALL VERIFY EXISTING STRUCTURE CAN WITHSTAND SUPERIMPOSED LOAD OF SHUTTER.
7. ANY MODIFICATIONS OR ADDITIONS TO THESE PRODUCT EVALUATION DOCUMENTS WILL VOID THE PRODUCT EVALUATION DOCUMENTS.
8. WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
 - A) REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
 - B) REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION
 WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
9. EACH SHUTTER ASSEMBLY SHALL BE PERMANENTLY LABELED AT THE BOTTOM END OF THE LOCKING SLAT AS FOLLOWS:
 ALLGUARD, INC.
 FORT LAUDERDALE, FLORIDA
 MIAMI-DADE COUNTY PRODUCT APPROVED
10. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
11. ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N. POP RIVETS SHALL BE 3/16" DIA. 5052 ALUMINUM ALLOY, U.O.N.
12. TOP AND BOTTOM DETAILS MAY BE INTERCHANGED AS FIELD CONDITIONS REQUIRE.



* FOR SPANS GREATER THAN 104',
 USE (2) LOCKS AT 1/3 & 2/3 OF
 SPAN

TYPICAL ELEVATION
 SCALE: 1" = 1'-0"

Approved as conforming with the
 Florida Building Code
 Date: 09/13/2007
 NOA# 07-0606-06
 Miami-Dade Product Control
 Division
 By: *Helmut A. Knezevich*



TYPICAL ODD NO. OF BLADES PLAN VIEW
 SCALE: 3" = 1'-0"

CLOSURE ANGLES:
 1"x2"x.062"x CONT. OR
 1"x3"x.062"x CONT. OR
 1"x4"x.062"x CONT. OR
 2"x3"x.125"x CONT. OR
 2"x4"x.125"x CONT. OR
 2"x5"x.125"x CONT.
 6063-T6 ALUM. ALLOY
 ANGLE (TYP.) FOR END
 CONDITION

Thornton Tomasetti
 330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301
 T 954-522-3690 • F 954-522-3691 • COA # 7519
 Website: www.ThorntonTomasetti.com

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Pro Series I Accordion Shutter

AllGuard Inc.
 6245 Poynter Road, Suite 107
 Fort Lauderdale, FL 33309
 Tel: (954) 481-4585
 Fax: (954) 481-4595

J.W. Knezevich
 Professional Engineer
 FL License No.: P-0041961

JUL 11 2007

no.	date	by	description
1	07/07/2007	TJP	1/17 BLADE, MAT FINISHING, BLANK JAM AND DRILL HOLES
2	07/07/2007	TJP	COUNTY COMRADE (1)

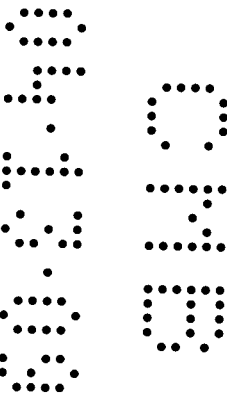
date 02/20/2007
 AS NOTED
 design by TLF
 checked by JWK

City 07-376
 Sheet 1 of 6

Shutter Permit
 OFFICE COPY

Review Type
 Structural
 Electrical
 Zoning

Initials Date
[Signature] 04/13/09
[Signature] 4/13/09



0203

1

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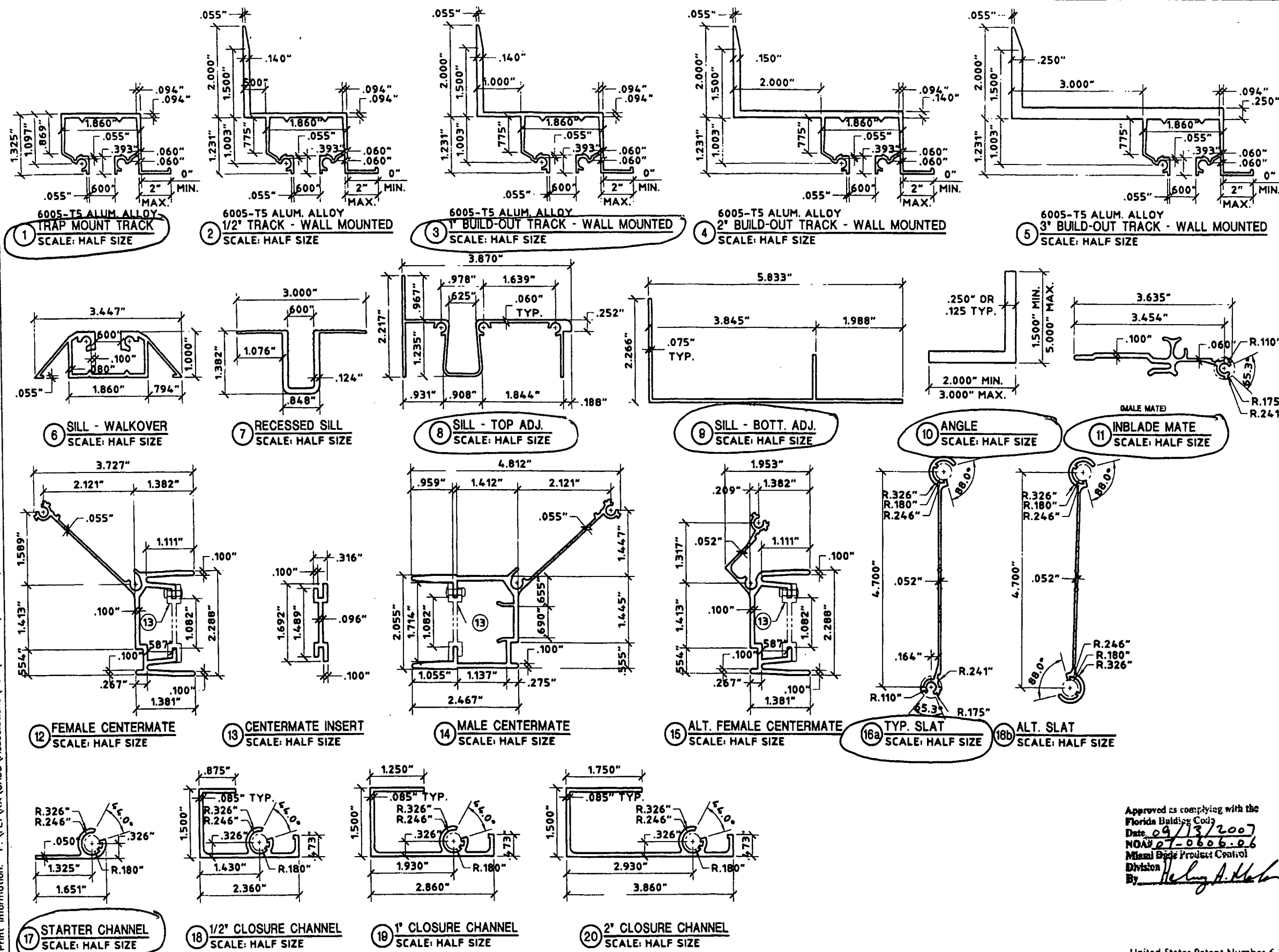
8

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11

12



Approved as complying with the
Florida Building Code
Date 09/13/2007
NOA# 07-0606-06
Miami Code Product Control
Division
By Healy A. Kaban

Thornton Tomasetti
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T 954.522.3690 • F 954.522.3691 • COA # 7519
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Pro Series I Accordion Shutter

AllGuard, Inc.
6245 Fowling Road, Suite 107
Fort Lauderdale, FL 33309
Tel: (954) 491-4585
Fax: (954) 491-4595
Your Mold-Injection Product Experts

J.W. Knezevich
Professional Engineer
FL License No.: PE 0041961

JUL 11 2007

revisions	description	date	by
1	15' EFF BLADE, 14" BUSHING, BANGCARD DIVISION	05/02/2007	TD
2	COUNTY COMMENTS	07/03/2007	TD

date 02/20/2007
scale AS NOTED
drawn by MCR
design by TLF
checked by JWK

drawing no.
07-376

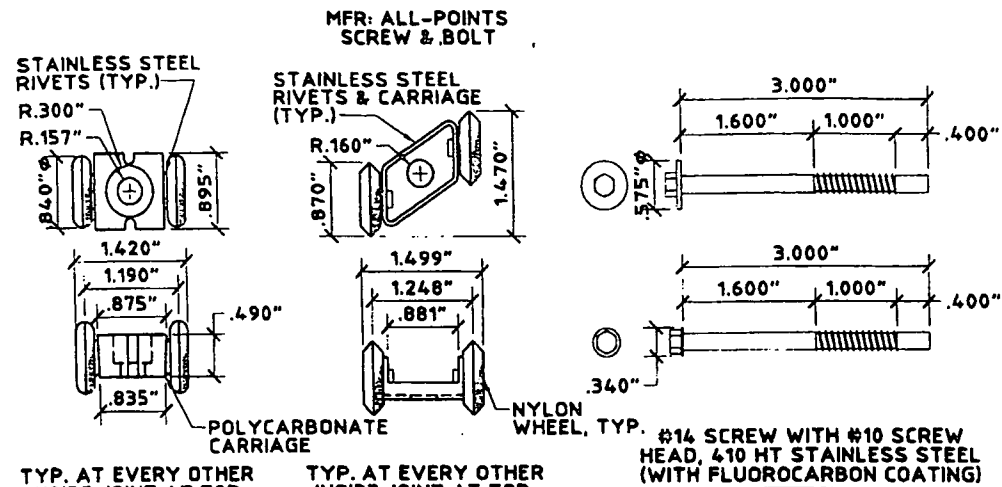
sheet 2 of 6

United States Patent Number 6,122,868

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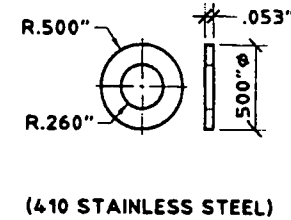
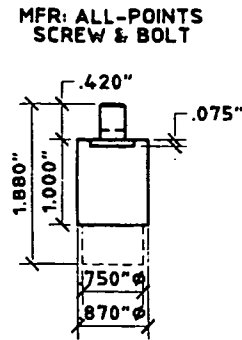
TYP. AT EVERY OTHER
INSIDE JOINT AT TOP.
(21) ROLLER ASSEMBLY
SCALE: HALF SIZE

TYP. AT EVERY OTHER
INSIDE JOINT AT TOP.
(22) ROLLER ASSEMBLY
SCALE: HALF SIZE

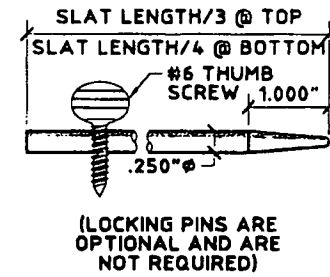
#14 SCREW WITH #10 SCREW
HEAD, 410 HT STAINLESS STEEL
(WITH FLUOROCARBON COATING)
(23) #14 SCREW WITH #10 HEAD
SCALE: HALF SIZE

(24) NOT USED

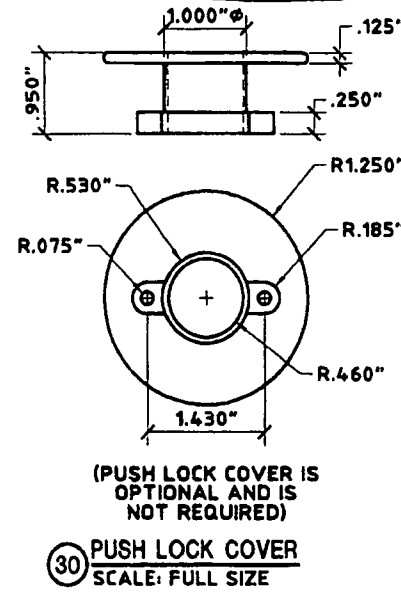
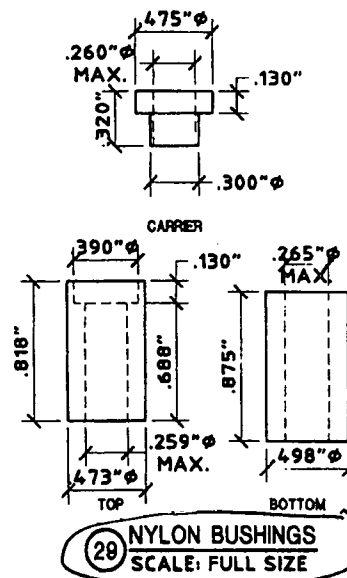
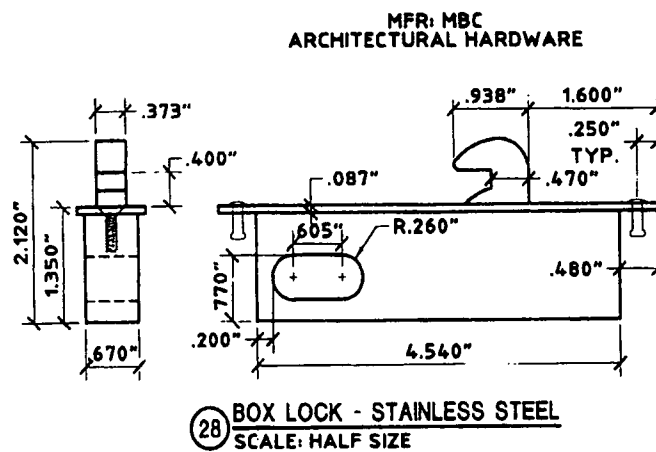
CF PUSH LOCK
SCALE: HALF SIZE
(25)



(26) WASHER
SCALE: FULL SIZE



(27) LOCKING PIN
SCALE: HALF SIZE



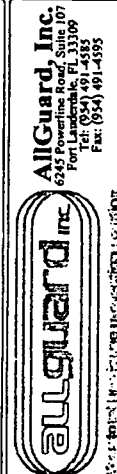
LOCK TO MALE CENTERMATE
CONNECTION DETAIL
SCALE: 1-1/2" = 1'-0"

COMPONENT (13) MAY BE TWO
PIECES ABOVE AND BELOW LOCK
OR ONE CONTINUOUS PIECE WITH
CUT OUT FOR LOCK

LOCK STRIKE PLATE TO FEMALE
CENTERMATE CONNECTION DETAIL
SCALE: 1-1/2" = 1'-0"

Approved as complying with the
Florida Building Code
Date: 09/13/2007
NOA# 07-0606-06
Miami Code Product Control
Division
By: *Helmy A. M. M.*

Pro Series I Accordion Shutter



J.W. Knezevich
Professional Engineer
FL License No.: PE 0041961

JUL 11 2007

date	by	description
01/07/2007	TJF	1/1 BLADE, HAT BUSHING, MANGUARD DIMENSION
07/07/2007	TJF	2 COUNTY COMMENTS

date 02/20/2007
scale AS NOTED
design by TLF
checked by JWK
drawing no. 07-376

sheet 3 of 6

ASP I.D. # 07071106471D

United States Patent Number 6,122,868

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Website: www.ThorntonTomasetti.com

0203

TABLE 1	MAXIMUM ALLOWABLE SHUTTER SPAN SCHEDULE		
	ALL MOUNTING CONDITIONS		DESIGN WIND LOAD (W) (P.S.F.)
	USE WITH INBLADE CENTERMATE (1)	USE WITH STANDARD CENTERMATES (2)	
	Lmax (FT-IN)	Lmax (FT-IN)	
	13' - 8"	13' - 6"	47.00
	13' - 3"	13' - 3"	50.00
	12' - 10"	12' - 11"	55.00
	12' - 3"	12' - 6"	60.00
	11' - 10"	12' - 0"	65.00
	11' - 4"	11' - 7"	70.00
	11' - 0"	11' - 2"	75.00
	10' - 8"	10' - 10"	80.00
	10' - 4"	10' - 6"	85.00
	10' - 0"	10' - 3"	90.00
	9' - 9"	9' - 11"	95.00
	9' - 6"	9' - 8"	100.00
	9' - 3"	9' - 6"	105.00
	9' - 1"	9' - 3"	110.00
	8' - 10"	9' - 0"	115.00
	8' - 8"	8' - 10"	120.00
	8' - 6"	8' - 8"	125.00
	8' - 4"	8' - 6"	130.00
	8' - 2"	8' - 2"	135.00
	7' - 11"	7' - 11"	140.00
	7' - 7"	7' - 7"	145.00
	7' - 4"	7' - 4"	150.00
	7' - 1"	7' - 1"	155.00
	6' - 11"	6' - 11"	160.00
	6' - 8"	6' - 8"	165.00
	6' - 8"	6' - 6"	170.00
	6' - 4"	6' - 4"	175.00
	6' - 2"	6' - 2"	180.00
	6' - 0"	6' - 0"	185.00
	5' - 10"	5' - 10"	190.00
	5' - 8"	5' - 8"	195.00
	5' - 6"	5' - 6"	200.00

G NOT USED

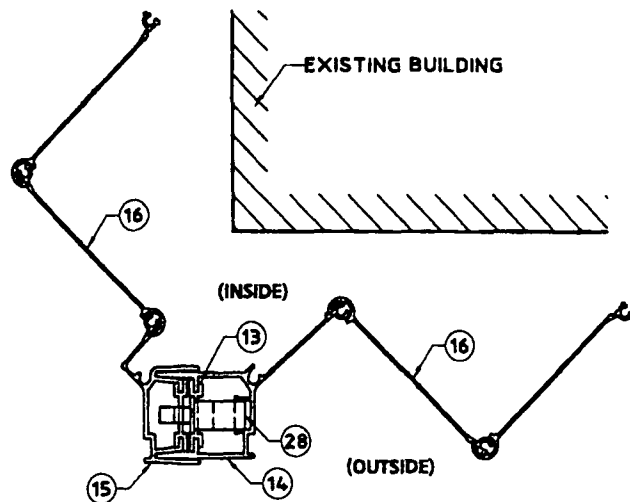
TABLE 2	MINIMUM SHUTTER SEPARATION FROM GLASS SCHEDULE			
	POSITIVE DESIGN LOAD (W) (P.S.F.)	ACTUAL SHUTTER SPAN (L) (FT-IN)	MINIMUM SEPARATION FOR INSTALLATIONS LESS THAN 30'-0" ABOVE GRADE (IN.)	MINIMUM SEPARATION FOR INSTALLATIONS GREATER THAN 30'-0" ABOVE GRADE (IN.)
	30.00	5' - 0"	2-3/8"	1"
	30.00	8' - 7"	2-3/8"	1-1/4"
	30.00	10' - 0"	3"	1-3/8"
	30.00	13' - 6"	3"	2-1/4"
	50.00	5' - 0"	2-3/8"	1"
	50.00	8' - 7"	2-3/8"	1-3/8"
	50.00	10' - 0"	3"	1-5/8"
	50.00	13' - 3"	3"	3"
	70.00	5' - 0"	2-3/8"	1"
	70.00	8' - 7"	2-3/8"	1-1/2"
	70.00	10' - 0"	3"	1-3/4"
	70.00	11' - 7"	3"	2-5/8"
	90.00	5' - 0"	2-3/8"	1-1/8"
	90.00	8' - 7"	2-3/8"	1-5/8"
	90.00	9' - 0"	3"	1-3/4"
	90.00	10' - 3"	3"	2-1/4"
	120.00	5' - 0"	2-3/8"	1-1/8"
	120.00	7' - 6"	2-3/8"	1-1/2"
	120.00	8' - 7"	2-3/8"	1-3/4"
	120.00	8' - 10"	3"	2"

TABLE 1 NOTE:

FOR DESIGN WIND LOADS BETWEEN TABULATED VALUES USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

TABLE 2 NOTE:

ENTER TABLE 2 WITH POSITIVE DESIGN WIND LOAD TO DETERMINE MINIMUM STORM SHUTTER SEPARATION FROM GLASS.



H 90° CORNER DETAIL
SCALE: 3" = 1'-0"

Approved as complying with the
Florida Building Code
Date 09/13/2007
NOAS 07-0606-06
Miami Dade Product Control
Division
By *[Signature]*

United States Patent Number 6,122,868

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Fax: (954) 491-4385
E-mail: info@allguardinc.com

J.W. Knezevich
Professional Engineer
FL License No.: PE 0041961

JUL 11 2007

revisions	
NO	description
1	08/02/2007 TLF E/F BLADE MAT BUILDING MANUFACTURING
2	07/03/2007 TLF COUNTY COMMENTS

date 02/20/2007
scale AS NOTED
design by TLF
checked by JWK
drawn by MCR

drawing no. 07-376

sheet 5 of 6

0203

ANCHOR SCHEDULE

FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

EXIST. STRUC.	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE															MIN. 3" EDGE DISTANCE															
			SPANS UP TO 6'-0" (SEE NOTE 1)					SPANS UP TO 10'-0" (SEE NOTE 1)					SPANS UP TO 13'-6" (SEE NOTE 1)					SPANS UP TO 6'-0" (SEE NOTE 1)					SPANS UP TO 10'-0" (SEE NOTE 1)					SPANS UP TO 13'-6" (SEE NOTE 1)					
			CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	
CONCRETE		45.0	16	16	16	16	16	13	16	12	10	10	10	12	9	7	7	16	16	16	16	16	14	16	12	12	12	10	12	9	8	9	
	1/4" ITW TAPCON WITH 1-3/4" MIN. EMBEDMENT (MIN. 3,192 P.S.I. CONCRETE)	60.0	16	16	15	12	13	10	12	9	7	7	7	9	6	5	5	16	16	16	15	16	14	16	12	9	9	8	9	7	6	7	
		75.0	13	16	12	10	10	8	9	7	6	6	6	7	5	4	4	14	16	12	12	12	8	10	12	9	9	8	9	7	5	5	
		170.0	6	7	5	4	4	5	6	5	4	4	5	6	5	4	4	6	7	5	5	5	5	6	5	4	5	5	6	5	4	5	
		200.0	5	6	5	4	4	5	6	5	4	4						5	6	5	4	5	5	6	5	4	5						
		45.0	16	16	14	16	16	9	11	8	10	10	7	8	6	7	7	16	16	16	16	16	12	14	10	12	13	9	10	8	9	9	
	1/4" ELCO ULTRA CON WITH 3/4" MIN. EMBEDMENT (MIN. 3,320 P.S.I. CONCRETE)	60.0	12	14	10	12	13	7	8	6	7	8	5	6	4	5	5	15	16	13	15	16	9	10	8	9	10	6	7	6	6	7	
		75.0	9	11	8	10	10	5	6	5	6	6	4	5	3	4	4	12	14	10	12	13	7	8	6	7	8	5	6	4	5	5	
		170.0	4	5	3	4	4	3	4	3	4	4	3	4	3	4	4	5	6	4	5	5	4	5	4	5	5	4	5	4	5	5	
		200.0	3	4	3	4	4	3	4	3	4	4						4	5	4	5	5	4	5	4	5	5						
		45.0	16	16	14	16	16	9	11	8	10	10	7	8	6	7	7	16	16	16	16	16	12	14	10	12	13	9	10	8	9	9	
1/4" ELCO ULTRA CON WITH HEX FLANGES WITH 1-3/4" MIN. EMBEDMENT (MIN. 3,320 P.S.I. CONCRETE)	60.0	12	14	10	12	13	7	8	6	7	8	5	6	4	5	5	15	16	13	15	16	9	10	8	9	10	6	7	6	6	7		
	75.0	9	11	8	10	10	5	6	5	6	6	4	5	3	4	4	12	14	10	12	13	7	8	6	7	8	5	6	4	5	5		
	170.0	4	5	3	4	4	3	4	3	4	4	3	4	3	4	4	5	6	4	5	5	4	5	4	5	5	4	5	4	5	5		
	200.0	3	4	3	4	4	3	4	3	4	4						4	5	4	5	5	4	5	4	5	5							
HOLLOW CONCRETE BLOCK		45.0	16	16	16	16	16	14	16	12	14	15	10	12	9	10	11	16	16	16	16	16	15	16	14	16	16	11	13	10	12	13	
	1/4" ELCO CRETE FLEX WITH 2" MIN. EMBEDMENT (MIN. 3,350 P.S.I. CONCRETE)	60.0	16	16	15	16	16	10	12	9	10	11	7	9	6	7	8	16	16	16	16	16	11	13	10	12	13	8	10	7	9	9	
		75.0	14	16	12	14	15	8	9	7	8	9	6	7	5	6	6	15	16	14	16	16	9	11	8	9	10	7	8	6	7	7	
		170.0	6	7	5	6	6	5	6	5	5	6	5	6	5	5	6	6	8	6	7	7	6	7	5	6	7	6	7	5	6	7	
		200.0	5	6	5	5	6	5	6	5	5	6						6	7	5	6	7	6	7	5	6	7						
		45.0	16	16	16	16	16	16	16	16	16	16	14	16	12	14	15	16	16	16	16	16	16	16	16	16	16	14	16	13	15	16	
	5/16" ITW XL TAPCON WITH 1-3/4" MIN. EMBEDMENT (MIN. 2,900 P.S.I. CONCRETE)	60.0	16	16	16	16	16	14	16	12	14	15	10	12	9	10	11	16	16	16	16	16	14	16	13	16	16	11	12	9	11	12	
		75.0	16	16	16	16	16	11	13	10	11	12	8	10	7	8	9	16	16	16	16	16	11	13	10	12	13	8	10	7	9	10	
		170.0	8	9	7	8	9	7	9	6	7	8	7	9	6	7	8	8	10	7	9	10	8	9	7	8	9	8	9	7	8	9	
		200.0	7	9	6	7	8	7	9	6	7	8						8	9	7	8	9	8	9	7	8	9						
		45.0	16	16	16	16	16	10	12	9	11	12	8	9	7	8	8	16	16	16	16	16	13	16	12	14	15	10	11	9	10	11	
1/4" ELCO ULTRA CON WITH 1-1/4" MIN. EMBEDMENT (MIN. 3,000 P.S.I. CONCRETE)	60.0	13	15	12	14	15	8	9	7	8	9	6	7	5	6	6	16	16	15	16	16	10	12	9	10	11	7	8	6	8	8		
	75.0	10	12	9	11	12	6	7	5	6	7	4	5	4	4	5	13	16	12	14	15	8	9	7	8	9	6	7	5	6	6		
	170.0	4	5	4	4	5	4	5	3	4	4	4	5	3	4	4	6	7	5	6	6	5	6	4	5	6	5	6	4	5	6		
	200.0	4	5	3	4	4	4	5	3	4	4						5	6	4	5	6	5	6	4	5	6							
HOLLOW CONCRETE BLOCK		45.0	7	8	6	8	8	4	4	3	4	5	3	3			3	3	8	9	7	9	10	4	5	4	5	6	3	4	3	4	
	1/4" ITW TAPCON WITH 1-1/4" MIN. EMBEDMENT	60.0	5	6	4	6	6	3	3			3	3				6	7	5	7	7	3	4	3	4	4	3			3	3	3	
		75.0	4	4	3	4	5					3					4	5	4	5	6	3	3	3	3	3	3						
		170.0																															
		200.0																															
		45.0	7	8	6	9	10	4	5	3	5	6	3	3			4	4	9	10	8	12	13	5	6	4	7	8	4	4	3	5	5
	1/4" ELCO ULTRA CON WITH HEX FLANGES WITH 1-1/4" MIN. EMBEDMENT	60.0	5	6	4	7	8	3	3			4	4				3	3	6	8	6	9	10	4	4	3	5	6	3	3		4	4
		75.0	4	5	3	5	6			3	3	3	3				5	6	4	7	8	3	3		4	4					3	3	3
		170.0																															
		200.0																															
	HOLLOW CONCRETE BLOCK		45.0	11	13	10	13	14	7	8	6	7	8	5	6	4	5	6	12	14	10	13	14	7	8	6	8	8	5	6	4	5	6
1/4" ELCO CRETE FLEX WITH 1-1/4" MIN. EMBEDMENT		60.0	8	10	7	9	10	5	6	4	5	6	3	4	3	4	4	9	10	8	10	10	5	6	4	6	6	4	4	3	4	4	
		75.0	7	8	6	7	8	4	4	3	4	5	3	3			3	3	7	8	6	8	8	4	5	3	4	5	3	3		3	3
		170.0	3	3		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		200.0	3	3		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		45.0	5	6	4	6	7	3	3			4	4				3	3	6	7	5	8	9	3	4	3	5	5			3	3	4
1/4" ITW MAXI SET TAPCON WITH 1-1/4" MIN. EMBEDMENT		60.0	3	4	3	5	5			3	3						4	5	4	6	6		3	3	4						3	4	4
		75.0	3	3		4	4										3	4	3	5	5		3	3								3	4
		170.0																															
		200.0																															
HOLLOW CONCRETE BLOCK			45.0	15	16	13	12	13	9	10	8	7	8	6	7	5	5	6	16	16	14	16	16	9	11	8	10	11	7	8	6	7	8
	1/4" ITW MAXI SET TAPCON WITH 1-1/4" MIN. EMBEDMENT	60.0	11	13	10	9	10	6	7	6	5	6	5	5	4	4	4	12	14	11	12	13	7	8	6	7	8	5	6	4	5	6	
		75.0	9	10	8	7	8	5	6	4	4	4	4	4	3	3	3	9	11	8	10	11	5	7	5	6	6	4	5	3	4	4	
		170.0	3	4	3	3	3	3	4	3	3	3	3	4	3	3	3	4	5	3													

ॐ नमो भगवते वासुदेवाय
 ॐ नमो भगवते वासुदेवाय
 ॐ नमो भगवते वासुदेवाय

Date 04/13/09
 Initials CC
4/13/09

B1003267
OWNER LTR

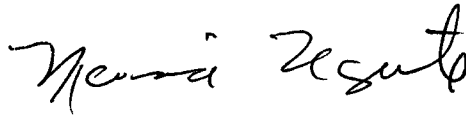
Maria Ugarte
9 Century Lane
Miami Beach, FL
33139

A quien pueda interesar:

Por la presente les notifico que no queremos que el vecino cambie la orientacion de la verja. Nosotras estamos bien como esta instalada, y no queremos mas molestias ni ocasionarle gastos. Preferimos no tener gente que puedan ocasionar danos a nuestro jardin que tiene matas que cubren la verja. De todos modos hay una verja existente que bordea nuestros lotes, asi que no importa de que lado sea la suya.

Cordialmente,

Maria Ugarte

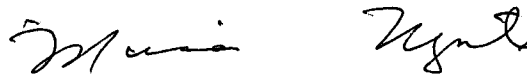


To Whom It May Concern:

I wish to inform you that we do not wish to change the orientation of the fence. We are fine with the way it has been installed and do not wish to create more complications and costs. We would also avoid having people damage our existing garden that has plants that cover the fence. Regardless, there is an existing fence that separates our lots, so it's not important to us which way it's facing.

Cordially,

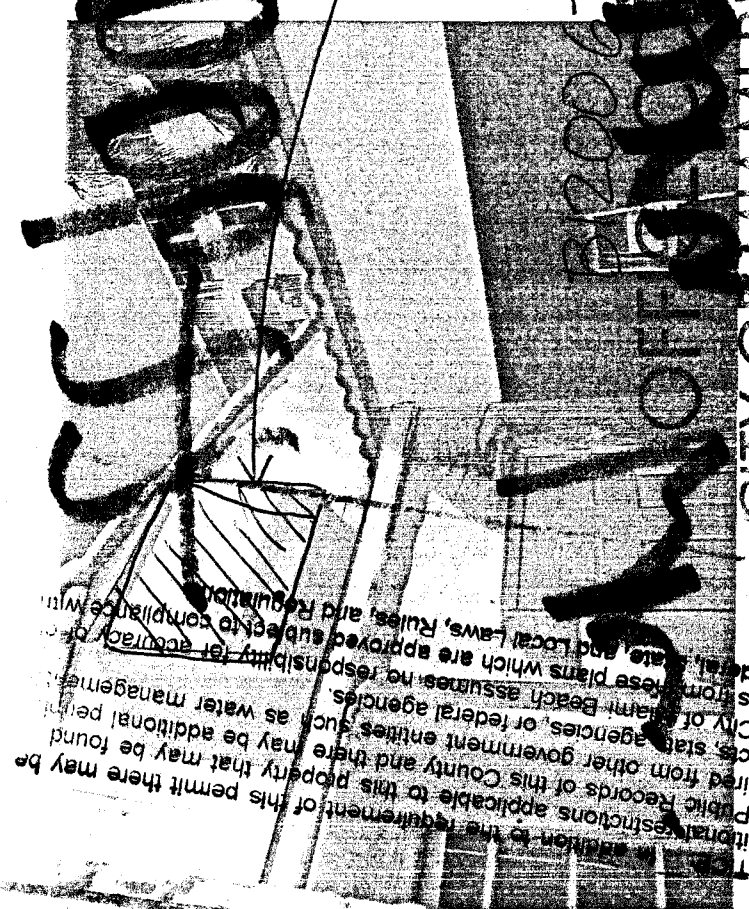
Maria Ugarte



B1200677

ADDRESS 10 CENTURY LA.

REMOVE 43" X 42 1/2" COVERING
& BLOCK-UP WITH 8" CMU.
APPLY STUCCO FINISH TO
MATCH EXISTING TO MATCH
EXISTING IN THE INT. TOO



NOTES: In addition to the requirements of this permit there may be additional restrictions applicable to this property that may be found in the Public Records of this County and there may be additional permits required from other government entities such as water management districts, state agencies, or federal agencies. The City of Miami Beach assumes no responsibility for accuracy of plans, and local laws, Rules, and Regulations. Plans from these plans which are approved subject to compliance with Federal, State, and Local Laws, Rules, and Regulations.

CITY OF MIAMI BEACH
APPLY FOR PERMIT BY

Roof geometry, Unprotected opening; Non-hip roof covering on opening under gable above door is unknown and undocumented.

THE FOLLOWING:

PLUMBING:

ZONING:

DRAWING:

COMMUNITY:

PLUMBING:

ELECTRICAL:

MECHANICAL:

PREVENTION:

ENGINEERING:

PUBLIC WORKS:

STRUCTURAL:

ELEVATION:

PUBLIC WORKS
PLAN REVIEW NO.

Phone 305-673-7080

Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR
OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

Permit requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or paving of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C./O.C. or the release of bonds.)

Approved/Reviewed By: [Signature] Date: 11/14/11

[Signature] 11/14/11
AV 11/14/11

21200677

10 Century Lr.

Office Copy