HOUSE #10 A. Gilford

Owner BELLE ISLE VILLAS
BEN INVESTMENT CORP. Mailing Address

Permit No. 16270 Cost $ 5,000:

Lot 10 Block a re-sub of Lots 43 & 44 Subdivision BELLE ISLE

Address 10 Century Lane

General Contractor Acme Building Corp. 9820

Bond No. 2980 3233-02-0100

Architect E, Dean Parmalee

Engineer

Zoning Regulations: Use RE Area 10

Lot Size 47 X 68 more or less

Building Size: Front 26' Depth 42'

Height 15' Stories one

Certificate of Occupancy No.

Use RESIDENCE - 5 rms- 1 bath

Type of Construction CBS Foundation spread footing Roof Tile Date Oct.11,1941

Plumbing Contractor Fixzit # 16003 Sewer Connection 1 Date 10-13-1941

Temporary Closet

Plumbing Contractor Date

Water Closets 1 Bath Tubs 1 Floor Drains

Lavatories 1, Showers Grease Traps

Urinals Sinks 1 Drinking Fountains

16393 Gas Stoves 1 - L.T.Odom...... Gas Heaters 1- 12-11-41 Rough Approved Date

Gas Radiators Gas Turn On Approved by J.J, Farrey -----Jan.29,1943

Septic Tank Contractor # 16084 Acme Septic Tank Tank Size 500 gals- 75' drain tile Date 10-24-41

Oil Burner Contractor Tank Size Date

SOLAR ~~Sprinkler~~ ~~XXXXXXX~~ System # 16039 - FIXZIT - 1 solar and 82 gal tank - Oct. 17, 1941

Electrical Contractor S & S Electric Company #17863 Address Date Oct.27,1941

OUTLETS Switch 8 Light 7 Receptacles 11

Range HEATERS Water Space

Motors

Fans Temporary Service

Centers of Distribution 1

opening# 1-12

MIAMI-DADE

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

B080-3040

CITY OF MIAMI BEACH FILE COPY

NOTICE OF ACCEPTANCE (NOA)

MetalTech, Inc.
7635 West 2[nd] 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 by 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 as well as approval document mentioned above.
The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

Helmy A. Makar

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

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.

PRODUCT CONTROL ACCEPTED

10/19/2006

CMB

09-17-08

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

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

CITY OF MIAMI BEACH OFFICE COPY

CMB
09-17-08

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

CWB

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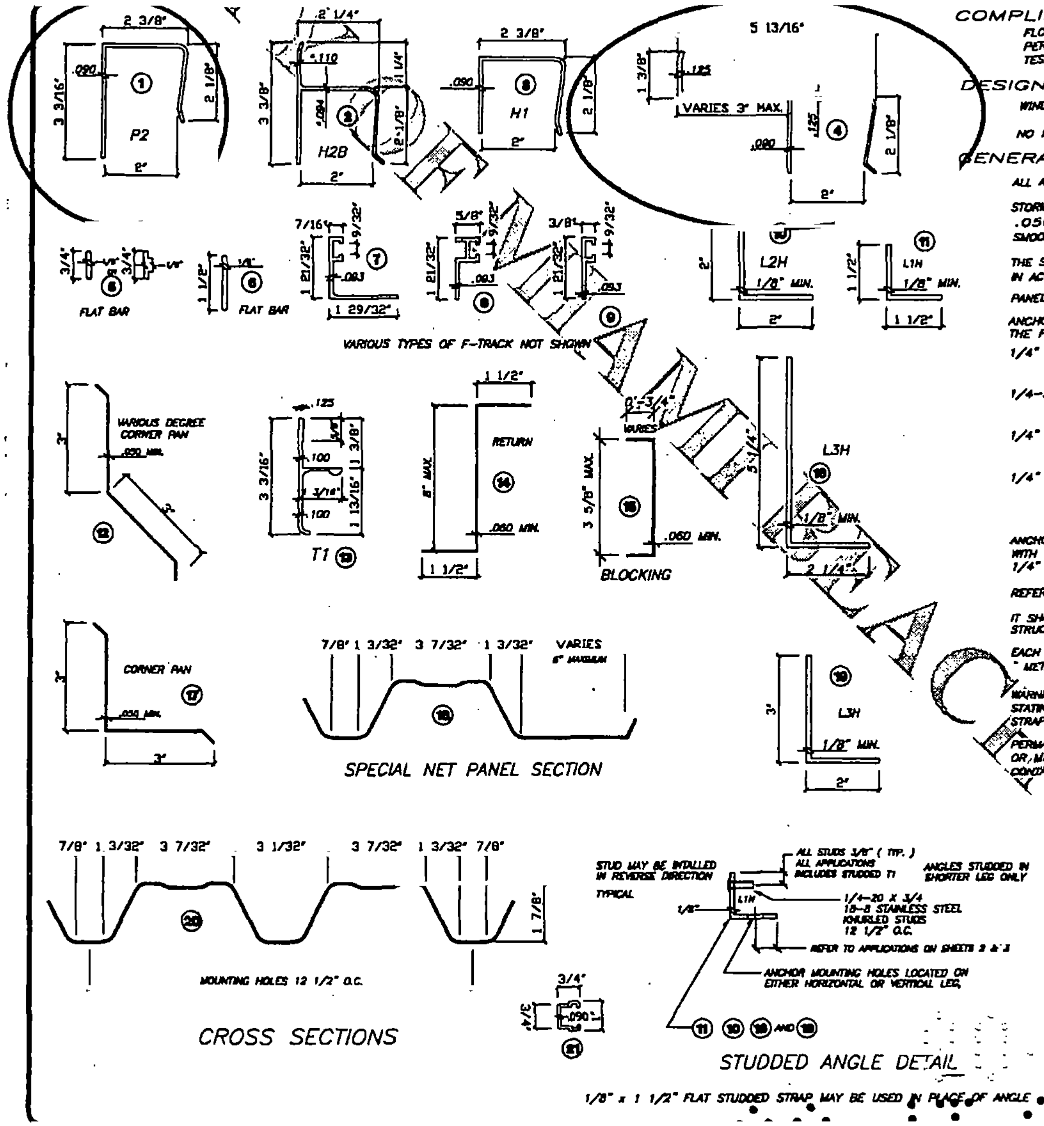


COMPLIES WITH:

FLORIDA BUILDING CODE
PER SECTION 1609.1.4
TESTED TO TA201, TA202 AND TA203

.050

DESIGN CRITERIA:

WIND LOADS TO BE CALCULATED AS PER ASCE 7

NO INCRESE IN ALLOWABLE STRESS WAS USED IN THE DESIGN OF THIS PRODUCT

GENERAL NOTES:

ALL ALUMINUM EXTRUSIONS TO BE ALLOY 6063-T6 OR EQUAL

STORM PANELS SHALL BE:
.050 5052 H-32 ALUMINUM OR EQUAL
SMOOTH OR EMBOSSED WITH A NOMINAL WIDTH OF 12 1/2"

THE STORM PANEL SHUTTER MAY BE INSTALLED VERTICALLY OR HORIZONTALLY, IN ACCORDANCE TO THE DETAILED SPECIFICATIONS HEREIN.

PANELS MAY BE NOTCHED OR MITERED TO ACCOMMODATE AN OBSTRUCTION

ANCHORAGE OF THE SHUTTER SYSTEM TO CONCRETE OR MASONRY SHALL CONSIST OF THE FOLLOWING OR EQUAL WITH MINIMUM ULTIMATE LOAD VALUES SHOWN

1/4" DIA. RAWL LOK/BOLT ANCHOR (SLEEVED DRIVE ANCHOR)
MIN. TENSILE 1190 – MIN. SHEAR 1520 – 1 1/8" MIN. EMBED. IN CONCRETE
MIN. TENSILE 1200 – MIN. SHEAR 1270 – 1 1/8" MIN. EMBED. IN MASONRY
1/4-20 RAWL CALK-IN ANCHOR (MACHINE SCREW ANCHOR) WITH 1/4-20 BOLTS
MIN. TENSILE 1870 – MIN. SHEAR 1730 – 7/8" MIN. EMBED. IN CONCRETE
MIN. TENSILE 880 – MIN. SHEAR 1340 – 7/8" MIN. EMBED. IN MASONRY
1/4" PERMA-SEAL TAPPER BY RAWL (MASONRY SCREWS VARIOUS HEAD TYPES)
MIN. TENSILE 1520 – MIN. SHEAR 1980 – 1 1/2" MEN. EMBED. IN CONCRETE
MIN. TENSILE 880 – MIN. SHEAR 1270 – 1 1/4" MIN. EMBED. IN MASONRY
1/4" ZAMAC NAILIN BY RAWL (ZAMAC HAMMER DRIVES)
MIN. TENSILE 980 – MIN. SHEAR 1400 – 1 3/8" MIN. EMBED. IN CONCRETE
MIN. TENSILE 730 – MIN. SHEAR 1320 – 1 1/4" MIN. EMBED. IN MASONRY

ANCHORAGE TO WOOD CONSTRUCTION SHALL BE 1/4" STEEL LAGS OR LARGER WITH 1" MIN. THREAD PENETRATION, 1/4-20 BRASS WOOD BUSHINGS OR 1/4" ELCO PANEL MATES WITH 1 7/8" MIN. THREAD PENETRATION.

REFER TO SHEETS 5,6 & 7 OF 7 FOR ANCHOR SPACING AND MINIMUM EMBEDMENTS

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE TO WITHSTAND THE ADDITIONAL LOADS AND INSURE PROPER ANCHORAGE.

EACH PANEL SHALL BEAR A PERMANENT LABEL OR STAMP SHOWING " METALTECH, INC. HIALEAH, FL " " DADE COUNTY PRODUCT CONTROL APPROVED "

WARNING TO OWNER OR TENANT LOCATED IN EACH HEADER OR ONE PANEL OF EACH OPENING, STATING " STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS ALL REINFORCING STRAPS OR BOLTS ARE PROPERLY INSTALLED, WHEN REQUIRED "

PERMANENT FASTENER COMPONENTS, EMBEDDED ANCHOR BOLTS, THREADED CONES OR METAL SHIELDS, NOT IN USE, MUST BE PROTECTED AGAINST CORROSION, CONTAMINATION AND DAMAGE AT ALL TIME.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 06-0117.05
Expiration Date 10/22/2011
By
Miami Dade Product Control Division

ROBERT S. MONESCUE, PE
EB-0006024
RAMMS ENGINEERING, INC.

MAXIMUM IMPACT STORM PANEL

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

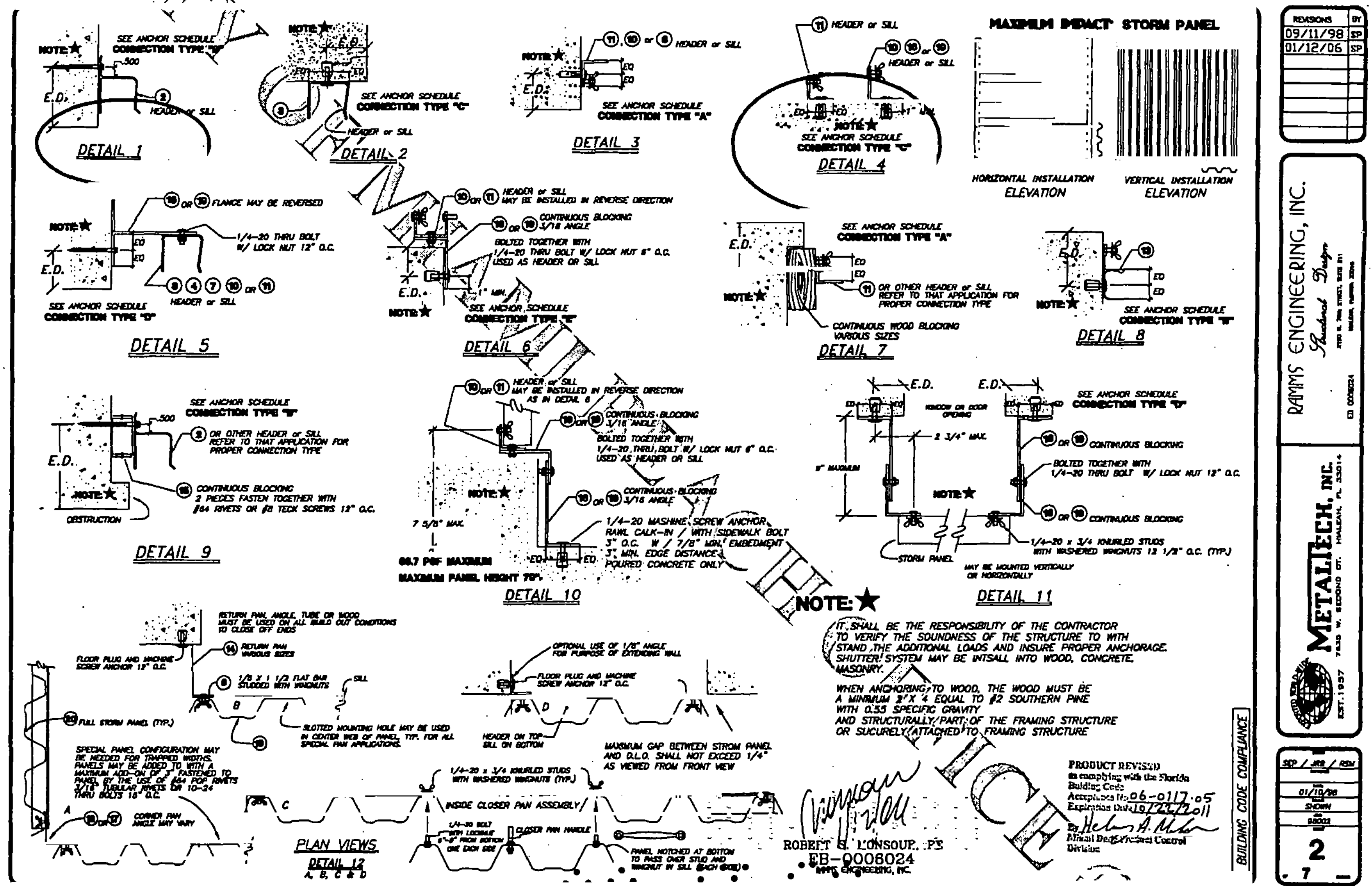
RAMMS ENGINEERING, INC.
Structural Design
EB 0006024

METALTECH, INC.
EST. 1957
HIALEAH, FL 33014

BUILDING CODE COMPLIANCE

01/10/98
SHOWN
1
7

02-21-08
CMB



MAXIMUM IMPACT STORM PANEL
HORIZONTAL INSTALLATION ELEVATION
VERTICAL INSTALLATION ELEVATION
DETAIL 1
SEE ANCHOR SCHEDULE CONNECTION TYPE "D"
HEADER or SILL
DETAIL 2
SEE ANCHOR SCHEDULE CONNECTION TYPE "C"
DETAIL 3
SEE ANCHOR SCHEDULE CONNECTION TYPE "A"
DETAIL 4
SEE ANCHOR SCHEDULE CONNECTION TYPE "C"
DETAIL 5
FLANGE MAY BE REVERSED
1/4-20 THRU BOLT W/ LOCK NUT 12" O.C.
SEE ANCHOR SCHEDULE CONNECTION TYPE "D"
DETAIL 6
HEADER or SILL MAY BE INSTALLED IN REVERSE DIRECTION
CONTINUOUS BLOCKING 3/16 ANGLE
BOLTED TOGETHER WITH 1/4-20 THRU BOLT W/ LOCK NUT 6" O.C. USED AS HEADER OR SILL
SEE ANCHOR SCHEDULE CONNECTION TYPE "E"
DETAIL 7
SEE ANCHOR SCHEDULE CONNECTION TYPE "A"
OR OTHER HEADER or SILL REFER TO THAT APPLICATION FOR PROPER CONNECTION TYPE
CONTINUOUS WOOD BLOCKING VARIOUS SIZES
DETAIL 8
SEE ANCHOR SCHEDULE CONNECTION TYPE "B"
DETAIL 9
SEE ANCHOR SCHEDULE CONNECTION TYPE "B"
OR OTHER HEADER or SILL REFER TO THAT APPLICATION FOR PROPER CONNECTION TYPE
CONTINUOUS BLOCKING 2 PIECES FASTEN TOGETHER WITH #64 RIVETS OR #8 TECK SCREWS 12" O.C.
OBSTRUCTION
DETAIL 10
HEADER or SILL MAY BE INSTALLED IN REVERSE DIRECTION AS IN DETAIL 6
CONTINUOUS BLOCKING 3/16 ANGLE
BOLTED TOGETHER WITH 1/4-20 THRU BOLT W/ LOCK NUT 6" O.C. USED AS HEADER OR SILL
1/4-20 MASHINE SCREW ANCHOR RAWL CALK-IN / WITH SIDEWALK BOLT 3" O.C. W / 7/8" MIN. EMBEDMENT 3" MIN. EDGE DISTANCE POURED CONCRETE ONLY
7 5/8" MAX.
66.7 PSF MAXIMUM
MAXIMUM PANEL HEIGHT 70"
DETAIL 11
SEE ANCHOR SCHEDULE CONNECTION TYPE "D"
WINDOW OR DOOR OPENING
2 3/4" MAX.
CONTINUOUS BLOCKING
BOLTED TOGETHER WITH 1/4-20 THRU BOLT W/ LOCK NUT 12" O.C.
1/4-20 x 3/4 KNURLED STUDS WITH WASHERED WINGNUTS 12 1/2" O.C. (TYP.)
STORM PANEL
MAY BE MOUNTED VERTICALLY OR HORIZONTALLY
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 INTSALL 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 SUCURELY ATTACHED TO FRAMING STRUCTURE
RETURN PAN, ANGLE, TUBE OR WOOD MUST BE USED ON ALL BUILD OUT CONDITIONS TO CLOSE OFF ENDS
FLOOR PLUG AND MACHINE SCREW ANCHOR 12" O.C.
RETURN PAN VARIOUS SIZES
1/8 X 1 1/2 FLAT BAR STUDDED WITH WINGNUTS
SILL
FULL STORM PANEL (TYP.)
SLOTTED MOUNTING HOLE MAY BE USED IN CENTER WEB OF PANEL, TYP. FOR ALL SPECIAL PAN APPLICATIONS.
SPECIAL PANEL CONFIGURATION MAY BE NEEDED FOR TRAPPED WIDTHS. PANELS MAY BE ADDED TO WITH A MAXIMUM ADD-ON OF 3" FASTENED TO PANEL BY THE USE OF #64 POP RIVETS 3/16 TUBULAR RIVETS OR 10-24 THRU BOLTS 18" O.C.
CORNER PAN ANGLE MAY VARY
OPTIONAL USE OF 1/8" ANGLE FOR PURPOSE OF EXTENDING WALL
HEADER ON TOP SILL ON BOTTOM
MAXIMUM GAP BETWEEN STROM PANEL AND O.L.O. SHALL NOT EXCEED 1/4" AS VIEWED FROM FRONT VIEW
1/4-20 x 3/4 KNURLED STUDS WITH WASHERED WINGNUTS (TYP.)
INSIDE CLOSER PAN ASSEMBLY
CLOSER PAN HANDLE
PANEL NOTCHED AT BOTTOM TO PASS OVER STUD AND WINGNUT IN SILL (EACH SIDE)
PLAN VIEWS
DETAIL 12 A, B, C & D
PRODUCT REVISED as complying with the Florida Building Code Acceptance No 06-0117.05 Expiration Date 10/27/2011
Miami Dade Product Control Division
ROBERT S. LONSOUR, PE
EB-0006024
RAMMS ENGINEERING, INC.
BUILDING CODE COMPLIANCE
REVISIONS BY
09/11/98 SP
01/12/06 SP
RAMMS ENGINEERING, INC.
Structural Design
METALTECH, INC.
EST. 1957
01/10/98
SHOWN
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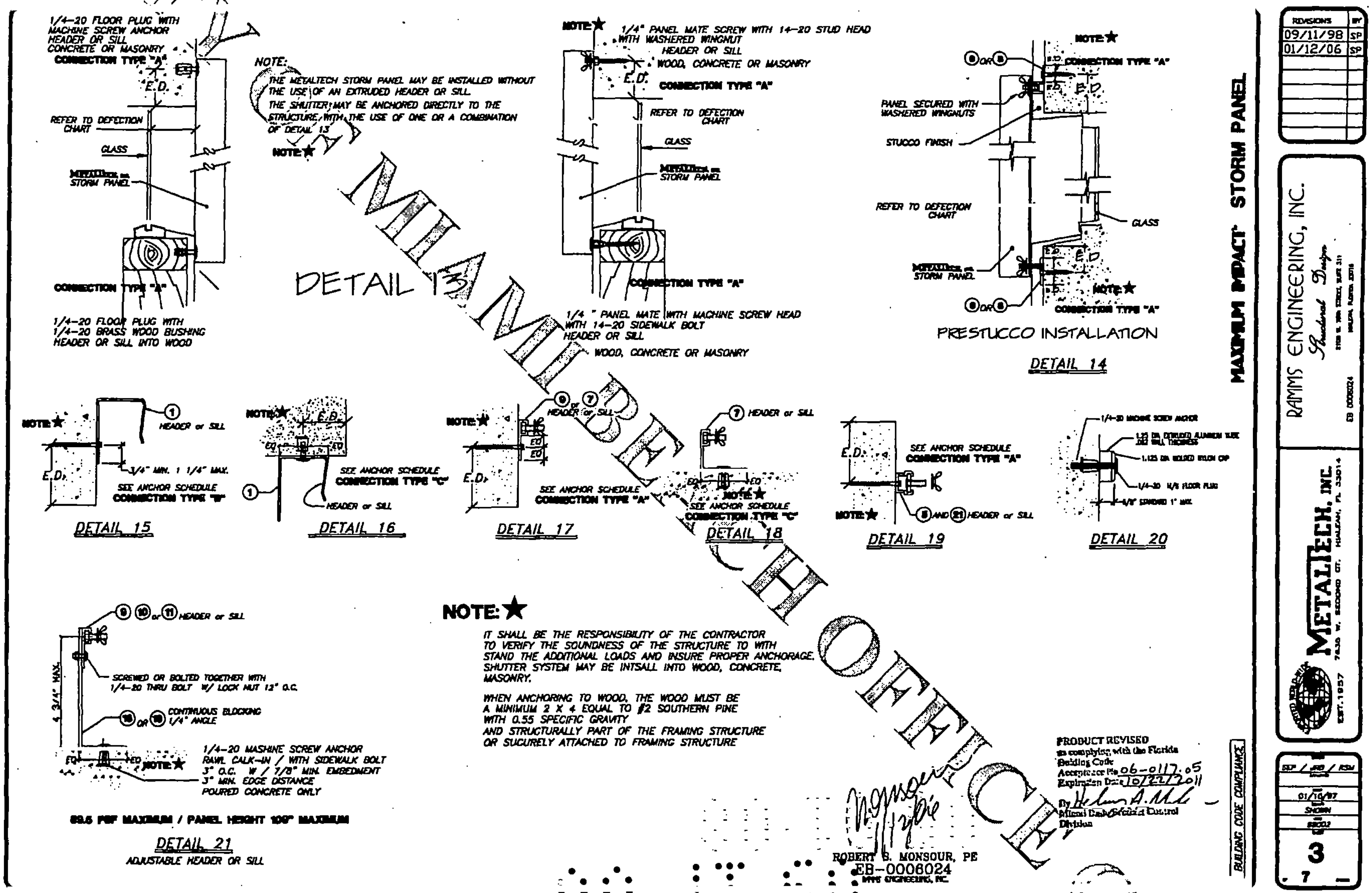
06-17-08

CWB



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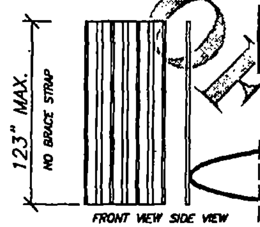
CITY OF ... BUILDING DEPT. CHECKED OFFICE COPY

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

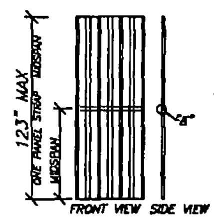


123" MAX. PANEL HEIGHT
NO PANEL STRAP
IS REQUIRED

PANEL DEFLECTION CHART WITHOUT HORIZONTAL STRAP

PANEL HEIGHT	[illegible]	[illegible]"-95"	over 95"-123"
WALL MOUNT	2 5/8"	3 5/8"	4"
INSIDE MOUNT	2 5/8"	3 5/8"	4"
BUILD OUT	2 5/8"	3 5/8"	4"

MINIMUM DISTANCE BETWEEN GLASS AND PANEL



123" MAX. PANEL HEIGHT
ONE PANEL STRAP
LOCATED MIDSPAN

PANEL DEFLECTION CHART WITH HORIZONTAL STRAP

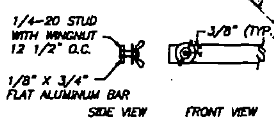
PANEL HEIGHT	0"-107"	over 107"-123"
WALL MOUNT	2 13/16"	3 3/16"
INSIDE MOUNT	2 13/16"	3 3/16"
BUILD OUT	2 13/16"	3 3/16"

MINIMUM DISTANCE BETWEEN GLASS AND PANEL

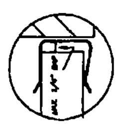
.050 ALUM

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



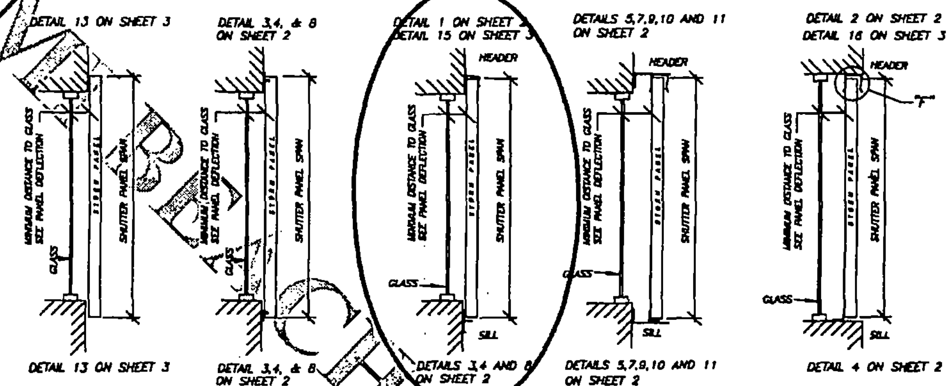
DETAIL "E"



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

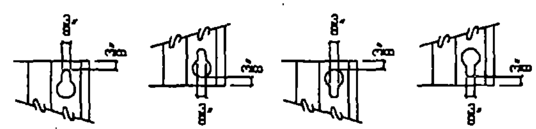
DETAIL "F"

HEADER AND SILL TYPE MAY VARY, DEPENDING ON APPLICATION



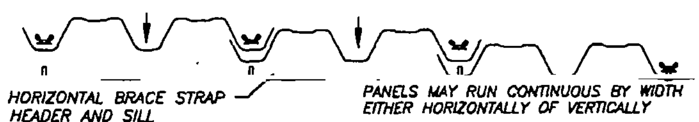
WALL MOUNT	WALL MOUNT	WALL MOUNT	BUILD OUT	INSIDE MOUNT
ANCHORING PANEL TOP & BOTTOM NO HDR. OR SILL	ANCHORING PANEL TOP & BOTTOM WITH STUDDED HDR/SILL	WITH HDR. AND SILL	WITH HDR. AND SILL	WITH HDR. AND SILL

TYPICAL SECTION VIEWS



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

DETAIL "G"



EXPLODED ASSEMBLY

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 06-0117.05
Expiration Date 10/22/2011
By [signature]
Miami Dade Product Control Division

ROBERT S. MCNSOUR, PE
EB-0006024
RAMMS ENGINEERING, INC

RAMMS ENGINEERING, INC.
Structural Design

METALTECH, INC.
EST. 1957

REVISIONS	BY
09/11/98	SP

01/10/98
SHOWN
88002

BUILDING CODE COMPLIANCE

4
7

09.17.08

CWB

ANCHOR SCHEDULE

ANCHOR SPACING vs DESIGN PRESSURE AND CONNECTION TYPE

ANCHOR TYPE	PANEL	E.D.	UP TO 59.6 PSF Poured Concrete Conection Type A	B	C	D	E	UP TO 59.6 PSF Concrete Block Conection Type A	B	C	D	E	UPTO 71.5 PSF Poured Concrete Conection Type A	B	C	D	E	UPTO 71.5 PSF Concrete Block Conection Type A	B	C	D	E
1/4" RAWL LOK/BOLT (SLEEVE ANCHOR) 1 1/8" MIN. EMBEDMENT	68" SPAN	3"	16	13	8	13	13	16	13	10	13	13	16	13	7	13	13	16	13	8	13	13
		2"	16	13	7	13	13	16	[illegible]	[illegible]	13	13	16	13	5	13	13	16	13	6	13	13
		1 1/4"	16	13	5	13	13	16	13	6	13	13	14	13	4	13	13	14	13	4	13	13
	88" SPAN	3"	16	13	8	13	13	16	13	7	13	13	14	6	5	9	10	14	6	6	9	10
		2"	15	11	5	13	13	15	11	6	13	13	12	6	4	8	9	12	6	5	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
	105" span	3"	14	6	5	9	10	14	7	6	9	10	11	4	4	6	4	12	4	5	5	4
		2"	12	8	4	8	8	12	6	5	8	9	10	4	4	5	4	10	4	4	5	4
		1 1/4"	11	5	3	7	8	11	5	4	7	8	9	3	3	4		9	3	3	4	
	123" span	3"	11	4	4	5	4	12	4	5	5	4										
		2"	10	4	4	5	4	10	4	4	5	4										
		1 1/4"	8	3	3	4	3	8	3	3	4	3										
1/4" RAWL ZAMAC NAILIN DRIVE (HAMMER DRIVE) 1 3/8" MIN. EMBEDMENT IN CONCRETE 1 1/4" MIN. EMBEDMENT IN BLOCK	68" SPAN	3"	16	13	7	13	13	13	13	8	13	13	15	13	6	13	13	11	11	5	11	11
		2"	15	13	6	13	13	12	12	5	12	12	13	13	5	13	13	10	10	4	10	10
		1 1/4"	14	13	5	13	13	10	10	4	10	10	12	12	4	12	12	9	9	3	9	9
	88" SPAN	3"	13	10	6	13	13	10	8	6	10	10	11	5	5	7	8	8	4	4	6	6
		2"	12	9	5	12	12	9	7	4	9	9	10	5	4	6	7	7	3	3	5	6
		1 1/4"	11	8	4	11	11	8	6	3	8	8	9	4	3	6	6	7	3	3	4	5
	105" span	3"	11	5	5	7	8	8	4	4	5	6	9	3	4	4	3	7		3	3	3
		2"	10	6	4	7	7	7	4	3	5	6	8	3	3	4	3	6		3	3	
		1 1/4"	9	4	3	6	7	7	3	3	4	5	8	3	3	4	3	6			3	
	123" span	3"	9	3	4	4	3	7		3	3	3										
		2"	8	3	3	4	3	6		3	3											
		1 1/4"	6	3	3	4	3	6			3											
VARIOUS HEAD TYPES (MASONRY SCREWS) 1/4" RAWL PERMA-SEAL TAPPER 1/4" ELCO PANEL MATES 1 1/2" MIN. EMBEDMENT IN CONCRETE 1 1/4" MIN. EMBEDMENT IN BLOCK	68" SPAN	3"	16	13	11	13	13	16	13	7	13	13	16	13	9	13	13	13	13	6	13	13
		2"	16	13	9	13	13	14	[illegible]	[illegible]	13	13	16	13	8	13	13	12	12	6	12	12
		1 1/4"	16	13	8	13	13	13	13	6	13	13	16	13	8	13	13	10	10	4	10	10
	88" SPAN	3"	16	13	9	13	13	11	9	5	12	12	16	8	7	11	12	10	5	4	6	7
		2"	16	13	7	13	13	11	[illegible]	[illegible]	11	11	15	7	6	10	11	9	4	4	6	6
		1 1/4"	16	13	6	13	13	10	7	4	10	10	14	7	5	9	10	8	4	3	5	6
	105" span	3"	16	8	7	11	13	10	5	4	7	8	15	5	6	7	5	8	3	4	4	3
		2"	16	7	6	10	12	9	[illegible]	[illegible]	8	7	13	5	5	6	5	8	3	3	4	3
		1 1/4"	14	7	5	9	10	8	4	3	5	6	12	4	4	5	4	7			3	3
	123" span	3"	15	5	6	7	5	8	3	4	4	3										
		2"	13	5	5	6	5	8	3	3	4	3										
		1 1/4"	12	4	4	5	4	7			3	3										
1/4-20 x 7/8", 1/2" DIA. RAWL CALK-IN (MACHINE SCREW ANCHOR) 7/8" MIN. EMBEDMENT	68" SPAN	3"	16	13	12	13	13	16	13	7	13	13	16	13	10	13	13	13	13	6	13	13
		2.5"	16	13	10	13	13	14	13	6	13	13	16	13	9	13	13	12	12	5	12	12
		2"	16	13	8	13	13	13	13	5	13	13	16	13	7	13	13	10	10	4	10	10
	88" SPAN	3"	16	13	9	13	13	12	9	5	12	12	16	10	8	13	13	10	5	4	6	7
		2.5"	16	13	8	13	13	11	6	5	11	11	16	9	7	12	13	9	4	4	6	6
		2"	16	13	6	13	13	10	7	4	10	10	16	8	6	11	12	8	4	3	5	6
	105" span	3"	16	10	8	13	13	10	5	4	7	8	16	8	7	8	3	8	3	4	4	3
		2.5"	16	9	7	13	13	9	4	4	6	7	16	6	6	8	3	8	3	3	4	3
		2"	16	8	5	11	13	8	4	3	5	6	14	5	4	7	3	7		3	3	3
	123" span	3"	16	8	7	8	7	8	3	4	4	3										
		2.5"	16	8	6	8	6	8	3	3	4	3										
		2"	14	5	4	7	5	7		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.

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 INTSALL INTO WOOD, CONCRETE OR MASONRY.

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

RAMMS ENGINEERING, INC.
Structural Design
EB 0006024

METALTECH, INC.
EST. 1957
7633 W. SECOND CT. HIALEAH, FL 33014

SCP/JRG
01/10/98
SHOWN
98002

5
7

BUILDING CODE COMPLIANCE

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 06-0117.05
Expiration Date 10/22/2011
By Helmy A. Makar
Miami Dade Product Control Division

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

CITY COPY

CMB

ANCHOR SCHEDULE

ANCHOR SPACING vs DESIGN PRESSURE AND CONNECTION TYPE			UP TO 81.5 PSF										UPTO 91.4 PSF									
			POURED CONCRETE CONECTION TYPE					CONCRETE BLOCK CONECTION TYPE					POURED CONCRETE CONECTION TYPE					CONCRETE BLOCK CONECTION TYPE				
ANCHOR TYPE	PANEL	E.D.	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
1/4" RAWL LOK/BOLT (SLEEVE ANCHOR) 1 1/8" MIN. EMBEDMENT	68" SPAN	3"	15	10	8	13	13	16	10	7	13	13	13	7	5	9	11	13	7	6	9	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
	88" SPAN	3"	12	4	5	6	6	12	5	5	6	5	11	3	4	5	3	11	4	5	5	3
		2"	11	4	4	5	4	11	4	4	5	5	9	3	3	4	3	10	3	4	4	3
		1 1/4"	10	4	3	5	4	10	4	3	5	4	8	3	3	4	3	8	3	3	4	3
	105" span	3"																				
		2"																				
		1 1/4"																				
	123" span	3"																				
		2"																				
		1 1/4"																				
1/4" RAWL ZAMAC NAILIN DRIVE (HAMMER DRIVE) 1 3/8" MIN. EMBEDMENT IN CONCRETE 1 1/4" MIN. EMBEDMENT IN BLOCK	68" SPAN	3"	13	8	5	12	13	8	8	4	9	9	11	5	5	8	8	8	4	4	6	7
		2"	11	7	5	11	11	8	5	4	8	8	10	5	4	7	8	8	4	3	5	6
		1 1/4"	10	7	4	10	10	8	5	3	7	8	9	4	3	6	7	7	3	3	4	5
	88" SPAN	3"	10	4	4	5	4	7	3	3	4	3	9	3	4	4	3	7		3	3	
		2"	9	3	3	4	4	7		3	3	3	8	3	3	3		6		3		
		1 1/4"	8	3	3	4	3	8			3		7		3	3		5				
	105" span	3"																				
		2"																				
		1 1/4"																				
	123" span	3"																				
		2"																				
		1 1/4"																				
VARIOUS HEAD TYPES (MASONRY SCREWS) 1/4" RAWL PERMA-SEAL TAPPER 1/4" ELCO PANEL MATES 1 1/2" MIN. EMBEDMENT IN CONCRETE 1 1/4" MIN. EMBEDMENT IN BLOCK	68" SPAN	3"	16	13	8	13	13	11	7	5	11	11	16	8	7	12	13	10	5	4	7	8
		2"	16	11	7	13	13	10	6	4	10	10	16	8	6	10	12	9	4	4	6	7
		1 1/4"	16	10	8	13	13	9	6	3	9	8	14	7	5	9	11	8	4	3	5	6
	88" SPAN	3"	15	6	6	8	6	9	3	4	4	4	14	4	6	6	4	6	3	3	3	3
		2"	14	6	5	7	6	8	3	3	4	3	12	4	5	5	4	7		3	3	
		1 1/4"	12	5	4	6	5	7	3	3	4	3	11	4	4	5	3	6			3	
	105" span	3"																				
		2"																				
		1 1/4"																				
	123" span	3"																				
		2"																				
		1 1/4"																				
1/4-20 x 7/8", 1/2" DIA. RAWL CALK-IN (MACHINE SCREW ANCHOR) 7/8" MIN. EMBEDMENT	68" SPAN	3"	16	13	9	13	13	11	7	5	11	11	16	10	8	13	13	10	5	4	7	8
		2.5"	16	13	7	13	13	10	7	4	10	10	16	9	7	13	13	9	4	4	6	7
		2"	16	12	6	13	13	9	6	3	9	9	16	8	5	12	13	8	4	3	5	6
	88" SPAN	3"	16	7	7	9	8	9	3	4	4	4	16	5	8	7	5	8	3	3	3	3
		2.5"	16	8	6	8	7	8	3	3	4	3	15	6	5	6	5	7		3	3	
		2"	15	8	4	8	8	7	3	3	4	3	13	4	4	6	4	6			3	
	105" span	3"																				
		2.5"																				
		2"																				
	123" span	3"																				
		2.5"																				
		2"																				

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 INTSALL INTO WOOD, CONCRETE OR MASONRY.

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

RAMMS ENGINEERING, INC.
Structural Design
EB 0006024

METALTECH, INC.
EST. 1957
7630 W. SECOND CT. HIALEAH, FL 33014

BUILDING CODE COMPLIANCE

SEP/JRS/RSM
01/10/98
SHOWN
98002
6
7

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 06-0117.05
Expiration Date 10/22/2011
By Helen A.M.
Miami Dade Product Control Division

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

CITY PRICE COPY

08-1790

CHB

09.17.08

CWB

ANCHOR SCHEDULE

WOOD APPLICATIONS			UP TO 59.5 PSF CONNECTION TYPE					UP TO 71.5 PSF CONNECTION TYPE					UP TO 81.5 PSF CONNECTION TYPE					UP TO 91.4 PSF CONNECTION TYPE				
ANCHOR TYPE	DIA.	SPAN	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
BRASS WOOD BUSHING	1/4-20	68" SPAN	14	13	5	13	13	12	12	5	12	12	10	7	4	10	10	9	4	4	8	7
		88" SPAN	11	8	4	11	11	9	4	3	6	7	8	3	3	4	3	7		3	3	
		105" SPAN	9	4	4	8	7	8	3	3	4	3										
1" MIN. PENETRATION		123" SPAN	8	3	3	4	3															
WOOD LAGS	1/4"	68" SPAN	16	13	8	13	13	15	13	8	13	13	14	8	6	13	13	12	6	5	8	8
		88" SPAN	14	11	6	13	13	12	6	5	8	9	10	4	4	5	4	9	3	4	4	3
		105" SPAN	12	8	5	8	9	10	4	4	5	4										
1" MINIMUM TREAD PENETRATION		123" SPAN	10	4	3	5	4															
WOOD LAGS	5/16"	68" SPAN	16	13	10	13	13	16	13	8	13	13	16	10	7	13	13	14	7	6	9	11
		88" SPAN	16	13	7	13	13	14	7	6	9	10	12	5	5	6	5	11	4	5	5	3
		105" SPAN	14	7	6	9	10	12	4	5	6	4										
1" MINIMUM TREAD PENETRATION		123" SPAN	12	4	5	6	4															
WOOD LAGS	3/8"	68" SPAN	16	13	11	13	13	16	13	9	13	13	16	12	8	13	13	16	8	7	11	13
		88" SPAN	16	13	9	13	13	16	8	7	10	12	14	5	6	7	6	13	4	6	5	4
		105" SPAN	16	8	7	11	12	14	5	6	6	5										
1" MINIMUM TREAD PENETRATION		123" SPAN	13	5	6	6	5															
WOOD LAGS	7/16	68" SPAN	16	13	12	13	13	16	13	10	13	13	16	13	9	13	13	16	9	8	12	13
		88" SPAN	16	13	9	13	13	16	8	8	12	13	16	6	7	8	7	14	5	8	6	4
		105" SPAN	16	9	8	12	13	15	5	7	7	6										
1" MINIMUM TREAD PENETRATION		123" SPAN	15	5	7	7	6															
1/4" ELCO PANEL MATES	1/4"	68" SPAN	16	13	8	13	13	15	13	8	13	13	14	9	6	13	13	12	6	5	8	9
		88" SPAN	14	11	6	13	13	12	6	5	8	9	10	4	4	5	4	9	3	4	4	3
		105" SPAN	12	6	5	8	9	10	4	4	5	4										
1 7/8" MIN. THREAD PENETRATION		123" SPAN	10	4	3	5	4															
1/4" ELCO PANEL MATES	1/4"	68" SPAN	16	13	8	13	13	15	13	6	13	13	14	9	6	13	13	12	6	5	8	9
		88" SPAN	14	11	6	13	13	12	6	5	8	9	10	4	4	5	4	9	3	4	4	3
		105" SPAN	12	6	5	8	9	10	4	4	5	4										
1 7/8" MIN. THREAD PENETRATION		123" SPAN	10	4	3	5	4															
VERIOUS HEAD TYPES		68" SPAN	16	13	8	13	13	15	13	6	13	13	14	9	6	13	13	12	6	5	8	9
		88" SPAN	14	11	6	13	13	12	6	5	8	9	10	4	4	5	4	9	3	4	4	3
1/4" MASONRY SCREWS	1/4"	105" SPAN	12	6	5	8	9	10	4	4	5	4										
1 7/8" MIN. THREAD PENETRATION		123" SPAN	10	4	3	5	4															

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 SUCURELY ATTACHED TO FRAMING STRUCTURE.

SHADED AREAS REPRESENT ANCHOR CONDITIONS THAT ARE NOT ACCEPTABLE.

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ROBERT S. MONCOUR, PE
EB-0006024
RAMMS ENGINEERING, INC.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 06-0117.05
Expiration Date 10/22/2011
By
Miami Dade Product Control
Division

CITY OF MIAMI ... CE COPY

BUILDING CODE COMPLIANCE

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

RAMMS ENGINEERING, INC.
Structural Design
EB 0006024

METALTECH, INC.
7830 W. SECOND CT. HIALEAH, FL 33014
EST. 1957

SEP/JRB/RSM
01/10/98
SHOWN
98002
7
7

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: LA 5/1/08
ZONING:
DIS/ARB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
ESTIMATOR: GG 05/01/08

Section 104.5.2

CITY OF MIAMI BEACH OFFICE COPY

CMB 08.04.30

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	Negative		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 EXAMPLE	BROWARD COUNTY, PALM BEACH AND OTHER COUNTIES					

WIND PRESSURES IN PSF — 146 MPH VELOCITY

Building Height	Roof Slope less than 10 degrees			Roof Slope greater than 10 degrees		
	Positive	Negative		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	Negative		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 GCpi=.55 - Table 6.7)

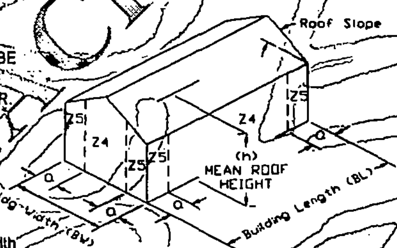
7- BASIC WIND SPEED - V=140, 146, 150 MPH

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 <= BW x 0.1 or a <= h x 0.4
BW less or equal than BL
a must not be less than
a = 3 feet or a= 0.04 x 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 2 6 2008

PEDRO DE FIGUEIREDO
PE52609
NOT VALID W/OUT SEAL

7/10/2007

CITY OF MIAMI BEACH
09-12-08
CNG

OFFICE COPY

MSTR: B0803040

BMS0803060

10 CENTURY LANE.

City of Miami Beach
Building Department
Shutter Permit
OFFICE COPY

Review Type	Initials	
Structural	KC	09/17/08
Electrical		
Zoning		9/17/08

09-17-08
CWB

CITY OF MIAMI BEACH
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139
Inspections: (305) 673-7370
Office: (305) 673-7610

B0902546 APP

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 Building/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	$15.00
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

[BSBLDPRM]

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:		$0.00
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' Name Heriberto Sanchez **Drivers License No.** S522-320-63-047-0

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 ________

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. ☐

Heriberto Sánchez Signature of Owner or Agent	N/A Signature of Tenant	[signature] Signature of Qualifier
Heriberto Sanchez Printed Name of Owner or Agent	Printed Name of Tenant	John Fitch Printed Name of Qualifier
Date 4/7/09	Date	Date 4/7/09
M Acevedo Signature of Notary Public	Signature of Notary Public	M Acevedo Signature of Notary Public
Identification ✓ FL. D/L	Identification	Identification Known
Sworn to and subscribed before me this 7th day of April 20 09	Sworn to and subscribed before me this ___ day of ___ 20, ___	Sworn to and subscribed before me this 7th day of April 20, 09
(SEAL)	(SEAL)	(SEAL)

MILDRED ACEVEDO
Notary Public - State of Florida
My Commission Expires Apr 16, 2010
Commission # DD 540869
Bonded By National Notary Assn.

MILDRED ACEVEDO
Notary Public - State of Florida
My Commission Expires Apr 16, 2010
Commission # DD 540869
Bonded By National Notary Assn.

~~*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 **COUNTY OF** Miami Dade

Heriberto Sanchez
Print Owner's Name

Heriberto Sánchez
Owner's Signature

Sworn to and subscribed before me this 18 day of March 20 09, by: Heriberto Sanchez

( ) Personally Known (X) Produced Identification - Type of Identification Florida Driver License # S522320630470 Exp. 2/7/12

[signature]
Signature of Notary Public

(Seal)

ILENA SU CHAN
Notary Public, State of Florida
Commission# DD813137
My comm. expires Aug. 10, 2012

Application Approved By: ______ (Permit Clerk)

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 20 09 by: Heriberto Sanchez

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

S522 320 630 470 Exp. 2/7/12

Ilena

Signature of Notary Public

ILENA SU CHAN
Notary Public, State of Florida
Commission# DD813137
My comm. expires Aug. 10, 2012

****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 <u>inside</u> of the test sample's In-Blade Centermate
2. Thumb Screw Lock on the <u>inside</u> 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

2590 SW 105th Terrace ■ Davie, Florida 33324 ■ 954.821.6933 ■ Fax: 954.452.7960 ■ VJK@Knezevich.com

04-13-09

CWB

MIAMI-DADE COUNTY

Heriberto Sanchez

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
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.**

PRODUCT CONTROL ACCEPTED

Helmy A. Makar
09/13/2007

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

04-13-09

CWB

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

04-13-09

CWB

CONTRACTOR: OCEAN SHUTTERS MANUFACTURING, INC.
ADDRESS: 1031 S.W. 30th AVENUE
DEERFIELD BEACH, FL 33442
PHONE: TOLL FREE: 1-888-489-9797

JOB NAME:	Heriberto Sanchez	***DATE:***	3/24/09
JOB ADDRESS:	10 Century Lane	***CITY:***	Miami Beach
JOB NUMBER:	0936124H	***ZIP:***	33139
# OF OPENINGS:	2	***INT. ROUTE:***	80.03
WIND SPEED:	146 MPH **EXPOSURE** "C"		
MEAN ROOF HEIGHT:	14' ***PSF'S:***	***WORST CASE=***	-62.2/+46.5
MAX SPAN:	11'10"/142"		

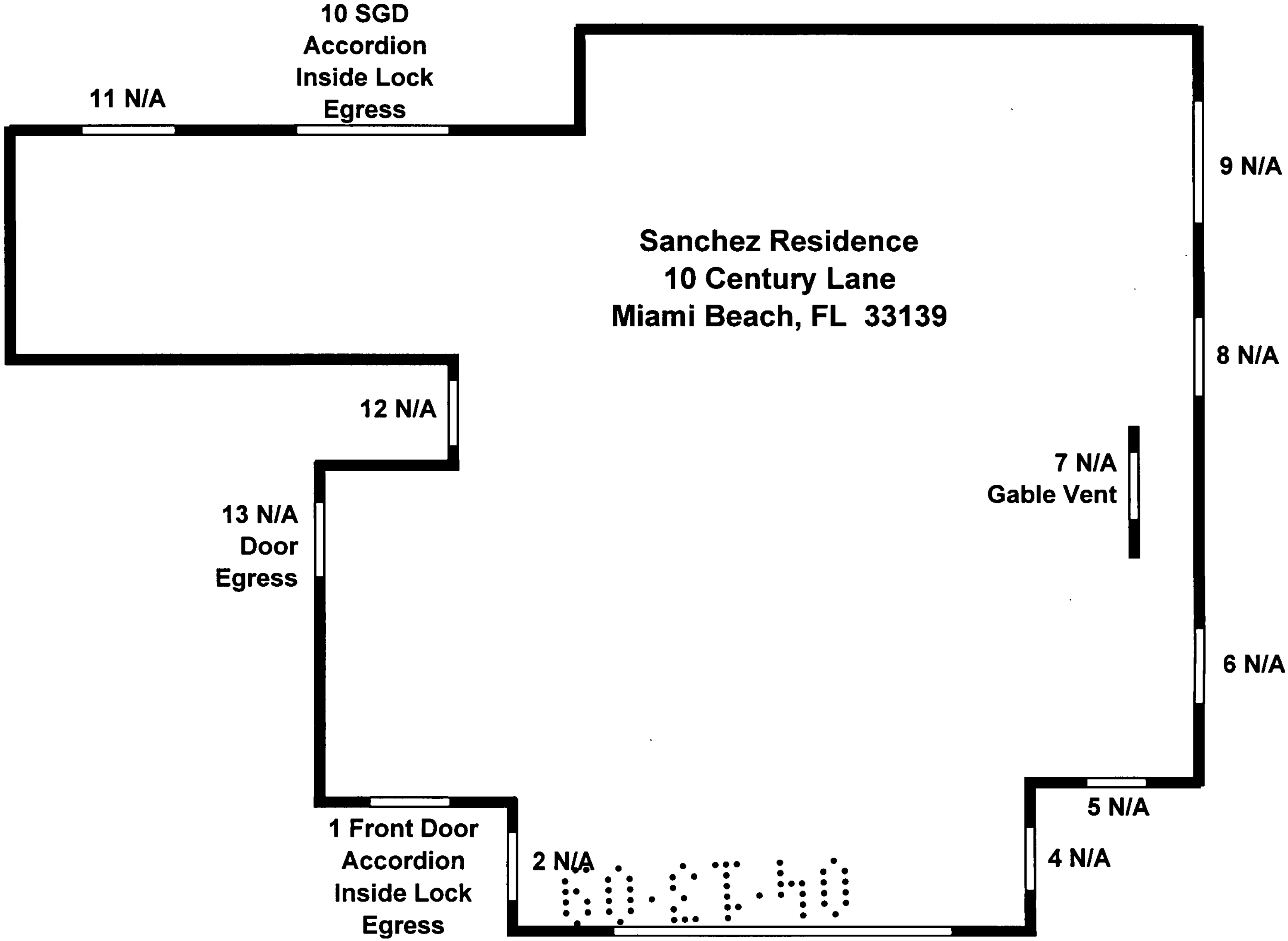
PRO SERIES I ACCORDION WORKSHEET

OPENING #	CLEAR OPENING	TRACK	ANGLE	SQUARE FOOT
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.

CMB

04-13-09


10 SGD
Accordion
Inside Lock
Egress
11 N/A
9 N/A
Sanchez Residence
10 Century Lane
Miami Beach, FL 33139
8 N/A
12 N/A
7 N/A
Gable Vent
13 N/A
Door
Egress
6 N/A
5 N/A
1 Front Door
Accordion
Inside Lock
Egress
2 N/A
4 N/A
3 N/A

04-13-09
CWB

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	-49.2	-48.3	-47.6	-47.1	-46.6	-46.2	-45.9	-45.5
	+46.5	+45.2	+44.4	+43.7	+43.1	+42.7	+42.3	+41.9	+41.6
16 ft	-51.1	-49.8	-49.0	-48.3	-47.7	-47.3	-46.8	-46.5	-46.2
	+47.1	+45.9	+45.0	+44.3	+43.7	+43.3	+42.9	+42.5	+42.2
18 ft	-52.4	-51.1	-50.2	-49.5	-48.9	-48.4	-48.0	-47.7	-47.3
	+48.3	+47.0	+46.1	+45.4	+44.8	+44.3	+43.9	+43.6	+43.2
20 ft	-53.5	-52.2	-51.3	-50.6	-50.0	-49.5	-49.1	-48.7	-48.4
	+49.4	+48.1	+47.1	+46.4	+45.8	+45.3	+44.9	+44.5	+44.2
22 ft	-54.6	-53.3	-52.4	-51.6	-51.0	-50.5	-50.1	-49.7	-49.4
	+50.4	+49.0	+48.1	+47.4	+46.8	+46.3	+45.8	+45.4	+45.1
24 ft	-55.6	-54.3	-53.3	-52.6	-52.0	-51.5	-51.0	-50.6	-50.3
	+51.3	+49.9	+49.0	+48.2	+47.6	+47.1	+46.7	+46.3	+45.9
26 ft	-56.6	-55.2	-54.2	-53.5	-52.9	-52.3	-51.9	-51.5	-51.1
	+52.2	+50.8	+49.8	+49.1	+48.4	+47.9	+47.5	+47.1	+46.7
28 ft	-57.5	-56.1	-55.1	-54.3	-53.7	-53.2	-52.7	-52.3	-51.9
	+53.0	+51.6	+50.6	+49.8	+49.2	+48.7	+48.2	+47.8	+47.4
30 ft	-58.3	-56.9	-55.9	-55.1	-54.5	-53.9	-53.5	-53.1	-52.7
	+53.8	+52.3	+51.3	+50.6	+49.9	+49.4	+48.9	+48.5	+48.1
32 ft	-59.1	-57.7	-56.7	-55.9	-55.2	-54.7	-54.2	-53.8	-53.4
	+54.5	+53.1	+52.0	+51.3	+50.6	+50.1	+49.6	+49.2	+48.8
34 ft	-59.9	-58.4	-57.4	-56.6	-55.9	-55.4	-54.9	-54.5	-54.1
	+55.2	+53.7	+52.7	+51.9	+51.3	+50.7	+50.2	+49.8	+49.4
36 ft	-60.6	-59.1	-58.1	-57.3	-56.6	-56.1	-55.6	-55.1	-54.8
	+55.9	+54.4	+53.3	+52.5	+51.9	+51.3	+50.8	+50.4	+50.0
38 ft	-61.3	-59.8	-58.7	-57.9	-57.3	-56.7	-56.2	-55.8	-55.4
	+56.5	+55.0	+54.0	+53.1	+52.5	+51.9	+51.4	+51.0	+50.6
40 ft	-62.0	-60.5	-59.4	-58.6	-57.9	-57.3	-56.8	-56.4	-56.0
	+57.1	+55.6	+54.5	+53.7	+53.0	+52.5	+52.0	+51.5	+51.1
42 ft	-62.6	-61.1	-60.0	-59.2	-58.5	-57.9	-57.4	-57.0	-56.6
	+57.7	+56.2	+55.1	+54.3	+53.6	+53.0	+52.5	+52.1	+51.7
44 ft	-63.2	-61.7	-60.6	-59.7	-59.1	-58.5	-58.0	-57.5	-57.1
	+58.3	+56.7	+55.7	+54.8	+54.1	+53.5	+53.0	+52.6	+52.2
46 ft	-63.8	-62.3	-61.2	-60.3	-59.6	-59.0	-58.5	-58.1	-57.7
	+58.8	+57.3	+56.2	+55.3	+54.6	+54.0	+53.5	+53.1	+52.7
48 ft	-64.4	-62.8	-61.7	-60.8	-60.1	-59.6	-59.0	-58.6	-58.2
	+59.4	+57.8	+56.7	+55.8	+55.1	+54.5	+54.0	+53.6	+53.1
50 ft	-64.9	-63.4	-62.2	-61.4	-60.7	-60.1	-59.5	-59.1	-58.7
	+59.9	+58.3	+57.2	+56.3	+55.6	+55.0	+54.5	+54.0	+53.6
52 ft	-65.5	-63.9	-62.8	-61.9	-61.2	-60.6	-60.0	-59.6	-59.2
	+60.4	+58.8	+57.6	+56.8	+56.1	+55.4	+54.9	+54.5	+54.0
54 ft	-66.0	-64.4	-63.3	-62.4	-61.7	-61.0	-60.5	-60.1	-59.6
	+60.8	+59.2	+58.1	+57.2	+56.5	+55.9	+55.4	+54.9	+54.5
56 ft	-66.5	-64.9	-63.7	-62.9	-62.1	-61.5	-61.0	-60.5	-60.1
	+61.3	+59.7	+58.5	+57.7	+56.9	+56.3	+55.8	+55.3	+54.9
60 ft	-67.5	-65.8	-64.7	-63.8	-63.0	-62.4	-61.9	-61.4	-61.0
	+62.2	+60.6	+59.4	+58.5	+57.8	+57.1	+56.6	+56.1	+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	-59.8	-58.0	-56.7	-55.6	-54.6	-53.8	-53.1	-52.5
	+46.5	+45.2	+44.4	+43.7	+43.1	+42.7	+42.3	+41.9	+41.6
16 ft	-63.1	-60.6	-58.8	-57.5	-56.3	-55.4	-54.6	-53.9	-53.2
	+47.1	+45.9	+45.0	+44.3	+43.7	+43.3	+42.9	+42.5	+42.2
18 ft	-64.6	-62.1	-60.3	-58.9	-57.8	-56.8	-55.9	-55.2	-54.5
	+48.3	+47.0	+46.1	+45.4	+44.8	+44.3	+43.9	+43.6	+43.2
20 ft	-66.1	-63.5	-61.6	-60.2	-59.0	-58.1	-57.2	-56.4	-55.8
	+49.4	+48.1	+47.1	+46.4	+45.8	+45.3	+44.9	+44.5	+44.2
22 ft	-67.4	-64.8	-62.9	-61.4	-60.2	-59.2	-58.4	-57.6	-56.9
	+50.4	+49.0	+48.1	+47.4	+46.8	+46.3	+45.8	+45.4	+45.1
24 ft	-68.7	-66.0	-64.1	-62.6	-61.4	-60.3	-59.4	-58.7	-58.0
	+51.3	+49.9	+49.0	+48.2	+47.6	+47.1	+46.7	+46.3	+45.9
26 ft	-69.8	-67.1	-65.1	-63.6	-62.4	-61.4	-60.4	-59.6	-58.9
	+52.2	+50.8	+49.8	+49.1	+48.4	+47.9	+47.5	+47.1	+46.7
28 ft	-70.9	-68.2	-66.2	-64.6	-63.4	-62.3	-61.4	-60.6	-59.9
	+53.0	+51.6	+50.6	+49.8	+49.2	+48.7	+48.2	+47.8	+47.4
30 ft	-72.0	-69.2	-67.1	-65.6	-64.3	-63.2	-62.3	-61.5	-60.7
	+53.8	+52.3	+51.3	+50.6	+49.9	+49.4	+48.9	+48.5	+48.1
32 ft	-73.0	-70.1	-68.1	-66.5	-65.2	-64.1	-63.1	-62.3	-61.6
	+54.5	+53.1	+52.0	+51.3	+50.6	+50.1	+49.6	+49.2	+48.8
34 ft	-73.9	-71.0	-68.9	-67.3	-66.0	-64.9	-64.0	-63.1	-62.4
	+55.2	+53.7	+52.7	+51.9	+51.3	+50.7	+50.2	+49.8	+49.4
36 ft	-74.8	-71.9	-69.8	-68.1	-66.8	-65.7	-64.7	-63.9	-63.1
	+55.9	+54.4	+53.3	+52.5	+51.9	+51.3	+50.8	+50.4	+50.0
38 ft	-75.7	-72.7	-70.6	-68.9	-67.6	-66.5	-65.5	-64.6	-63.8
	+56.5	+55.0	+54.0	+53.1	+52.5	+51.9	+51.4	+51.0	+50.6
40 ft	-76.5	-73.5	-71.3	-69.7	-68.3	-67.2	-66.2	-65.3	-64.5
	+57.1	+55.6	+54.5	+53.7	+53.0	+52.5	+52.0	+51.5	+51.1
42 ft	-77.3	-74.2	-72.1	-70.4	-69.0	-67.9	-66.9	-66.0	-65.2
	+57.7	+56.2	+55.1	+54.3	+53.6	+53.0	+52.5	+52.1	+51.7
44 ft	-78.0	-75.0	-72.8	-71.1	-69.7	-68.5	-67.5	-66.6	-65.8
	+58.3	+56.7	+55.7	+54.8	+54.1	+53.5	+53.0	+52.6	+52.2
46 ft	-78.8	-75.7	-73.5	-71.8	-70.4	-69.2	-68.2	-67.3	-66.5
	+58.8	+57.3	+56.2	+55.3	+54.6	+54.0	+53.5	+53.1	+52.7
48 ft	-79.5	-76.3	-74.1	-72.4	-71.0	-69.8	-68.8	-67.9	-67.1
	+59.4	+57.8	+56.7	+55.8	+55.1	+54.5	+54.0	+53.6	+53.1
50 ft	-80.2	-77.0	-74.8	-73.0	-71.6	-70.4	-69.4	-68.5	-67.6
	+59.9	+58.3	+57.2	+56.3	+55.6	+55.0	+54.5	+54.0	+53.6
52 ft	-80.8	-77.6	-75.4	-73.6	-72.2	-71.0	-69.9	-69.0	-68.2
	+60.4	+58.8	+57.6	+56.8	+56.1	+55.4	+54.9	+54.5	+54.0
54 ft	-81.5	-78.3	-76.0	-74.2	-72.8	-71.6	-70.5	-69.6	-68.7
	+60.8	+59.2	+58.1	+57.2	+56.5	+55.9	+55.4	+54.9	+54.5
56 ft	-82.1	-78.9	-76.6	-74.8	-73.3	-72.1	-71.0	-70.1	-69.3
	+61.3	+59.7	+58.5	+57.7	+56.9	+56.3	+55.8	+55.3	+54.9
60 ft	-83.3	-80.0	-77.7	-75.9	-74.4	-73.2	-72.1	-71.1	-70.3
	+62.2	+60.6	+59.4	+58.5	+57.8	+57.1	+56.6	+56.1	+55.7

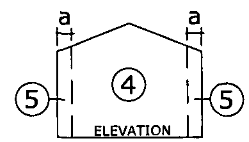
INSTRUCTIONS FOR TABLE USE:

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 ($HEIGHT^2 / 3$). 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.

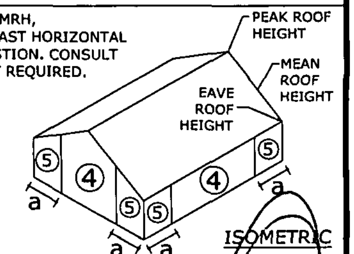
GENERAL NOTES:

1. THESE CHARTS ARE NOT VALID AS A SITE-SPECIFIC DRAWING. THESE TABLES ARE ONLY VALID WHEN SIGNED & RAISED SEALED BY FRANK L. BENNARDO, 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 (GCpl=+/-0.18) ENCLOSED BUILDING ONLY. VERIFY USE OF Kd=0.85 (DIRECTIONALITY FACTOR) WITH LOCAL BUILDING DEPARTMENT. HVHZ = 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.



WALL ZONE FIGURES



ISOMETRIC

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

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SKU 5161

SCALE: N.T.S.

PAGE DESCRIPTION:

1 OF 1

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 (1) JOB(S) ONLY
VALID ONLY WITH RAISED ENGINEER SEAL

03/02/2009

FRANK L. BENNARDO, P.E.
#PE0046549

CMB

04-13-09

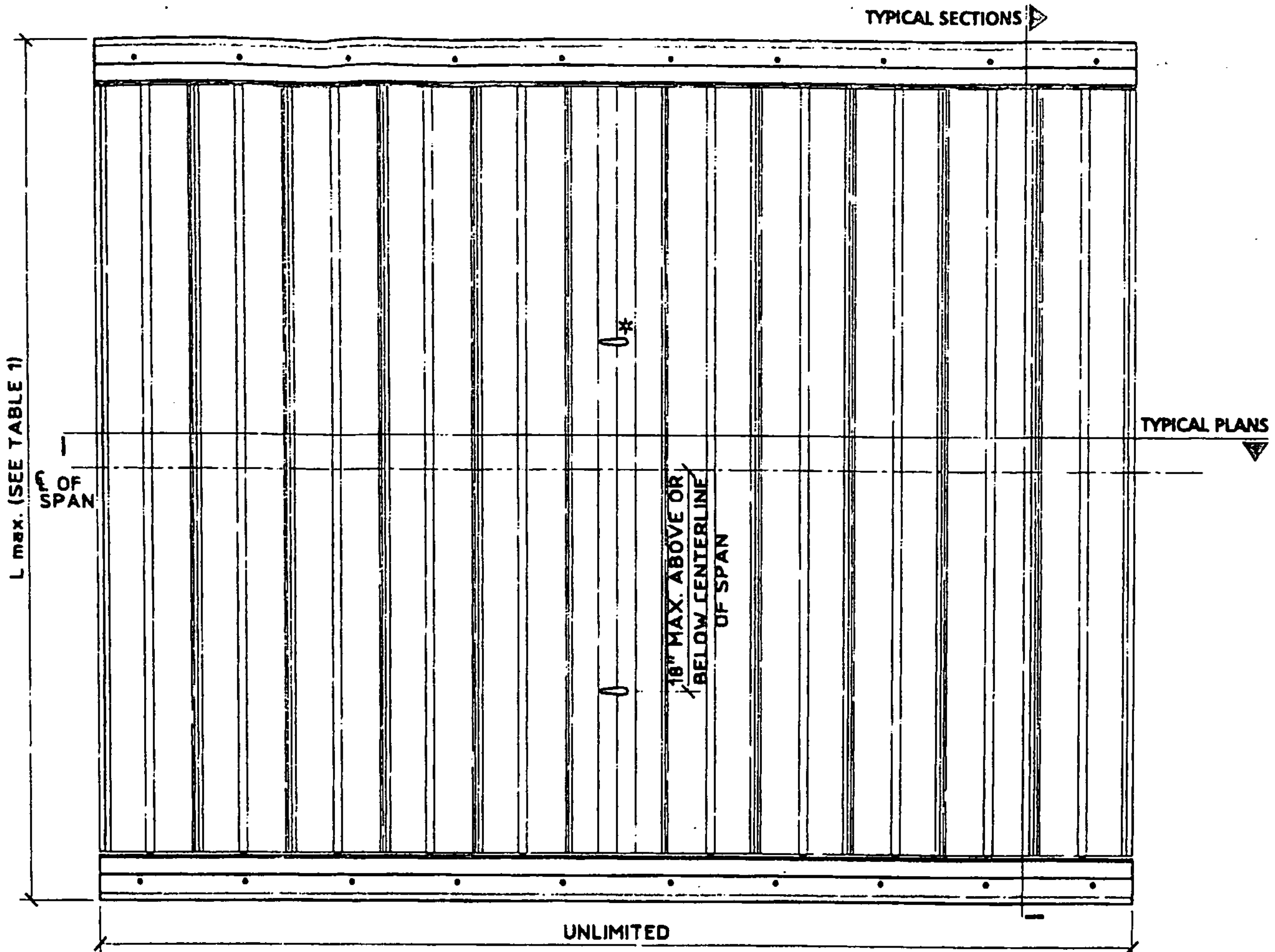
07/11/07 13:02

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 Cd = 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 Kd =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"

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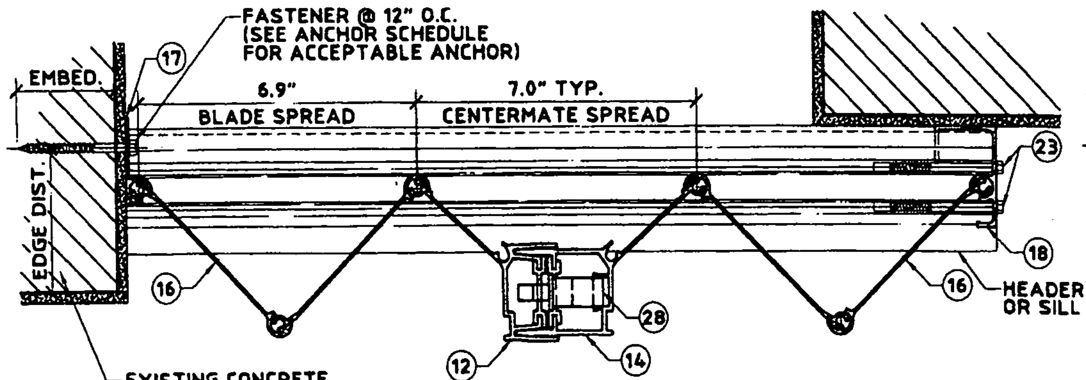
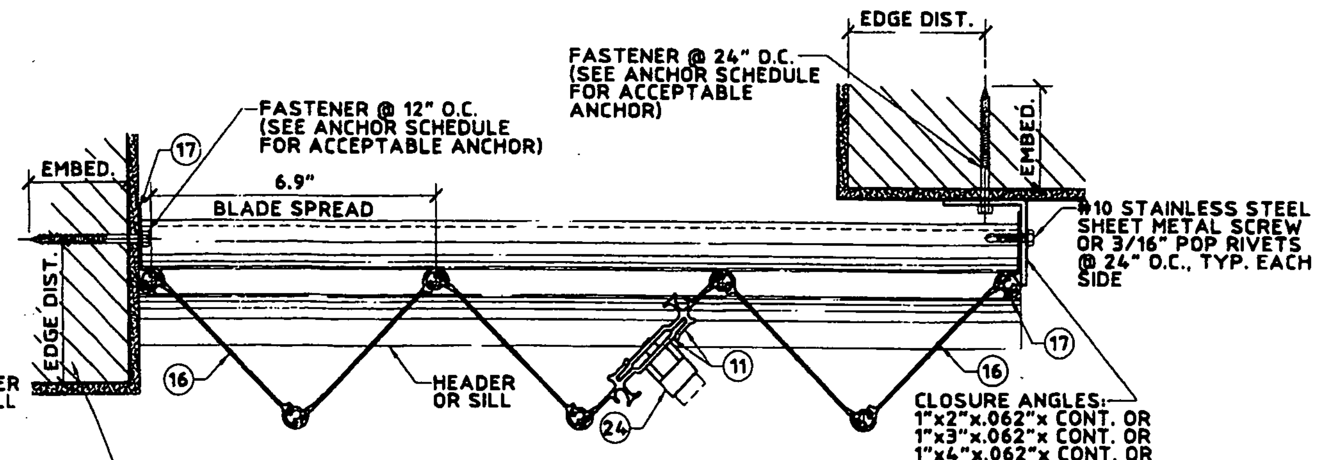
Date 09/13/2007
NOA# 07-0606.06
Miami Dade Product Control Division
By



EXISTING CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. SEE ANCHOR SCHED. BASED ON TYPE OF STRUC. (TYP. EACH SIDE)

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



EXISTING CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. SEE ANCHOR SCHED. BASED ON TYPE OF STRUC. (TYP. EACH SIDE)

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

United States Patent Number 6,122,868

Thornton Tomasetti
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AllGuard, Inc.

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

JUL 11 2007

revisions

ASP I.D. # 070711064710

date 02/20/2007
scale AS NOTED
drawn by MCR
design by TLF
checked by JWK
drawing no. 07-376
sheet 1 of 6

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City of Miami Beach
Building Department
Shutter Permit
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Review Type | Initials | Date
Structural | | 04/13/09
Electrical
Zoning | | 4/13/09

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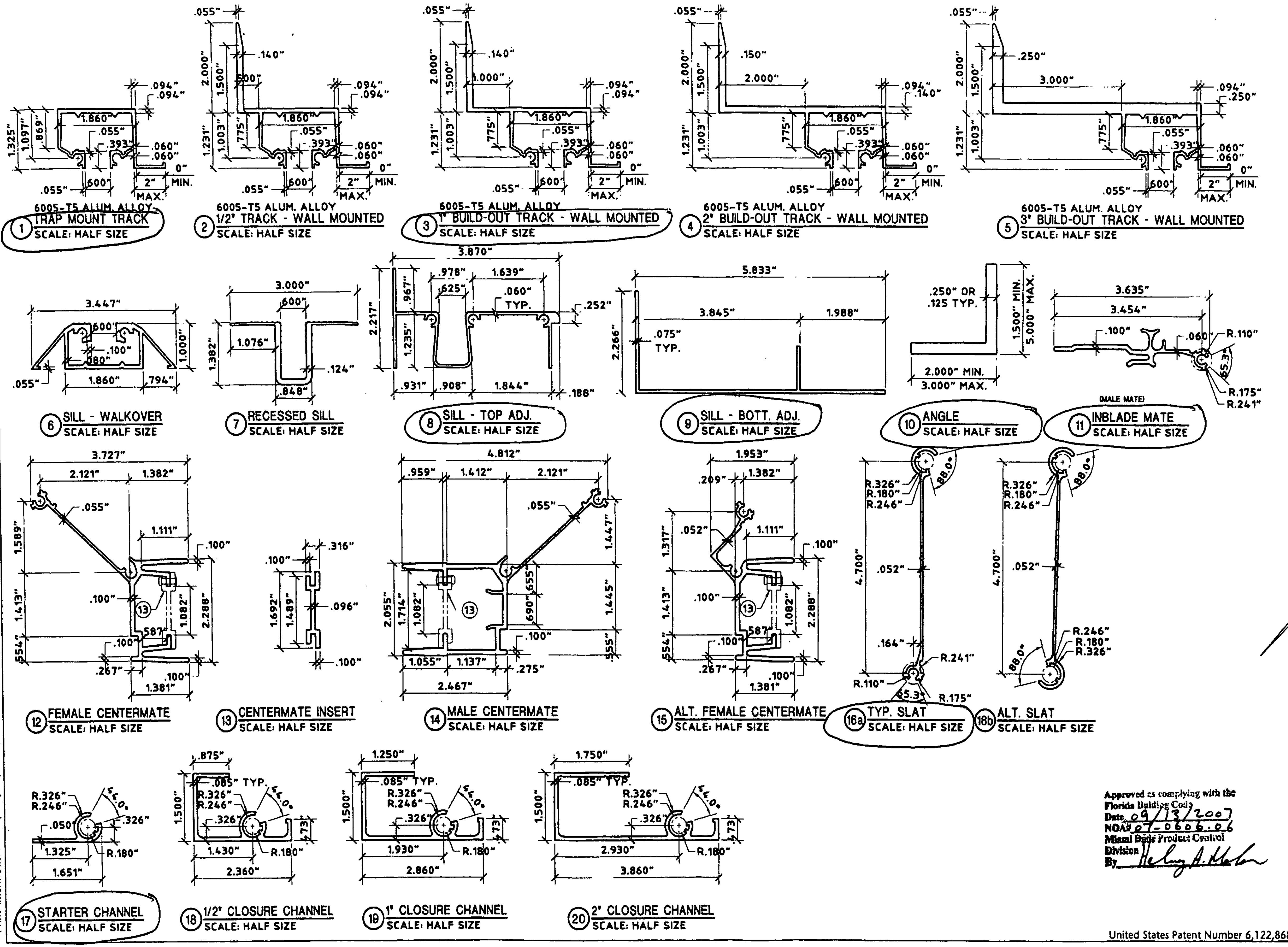

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J.W. Knezevich
Professional Engineer
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JUL 11 2007

ASP I.D. # 070711064710

no	date	by	revisions description
1	05/02/2007	TLF	F/T BLADE, HAT BUSHING, BAINGUARD DIMENSION
2	07/11/2007	TLF	COUNTY COMMENTS

date 02/20/2007
scale AS NOTED
drawn by MCR
design by TLF
checked by JWK
drawing no. 07-376
sheet 2 of 6

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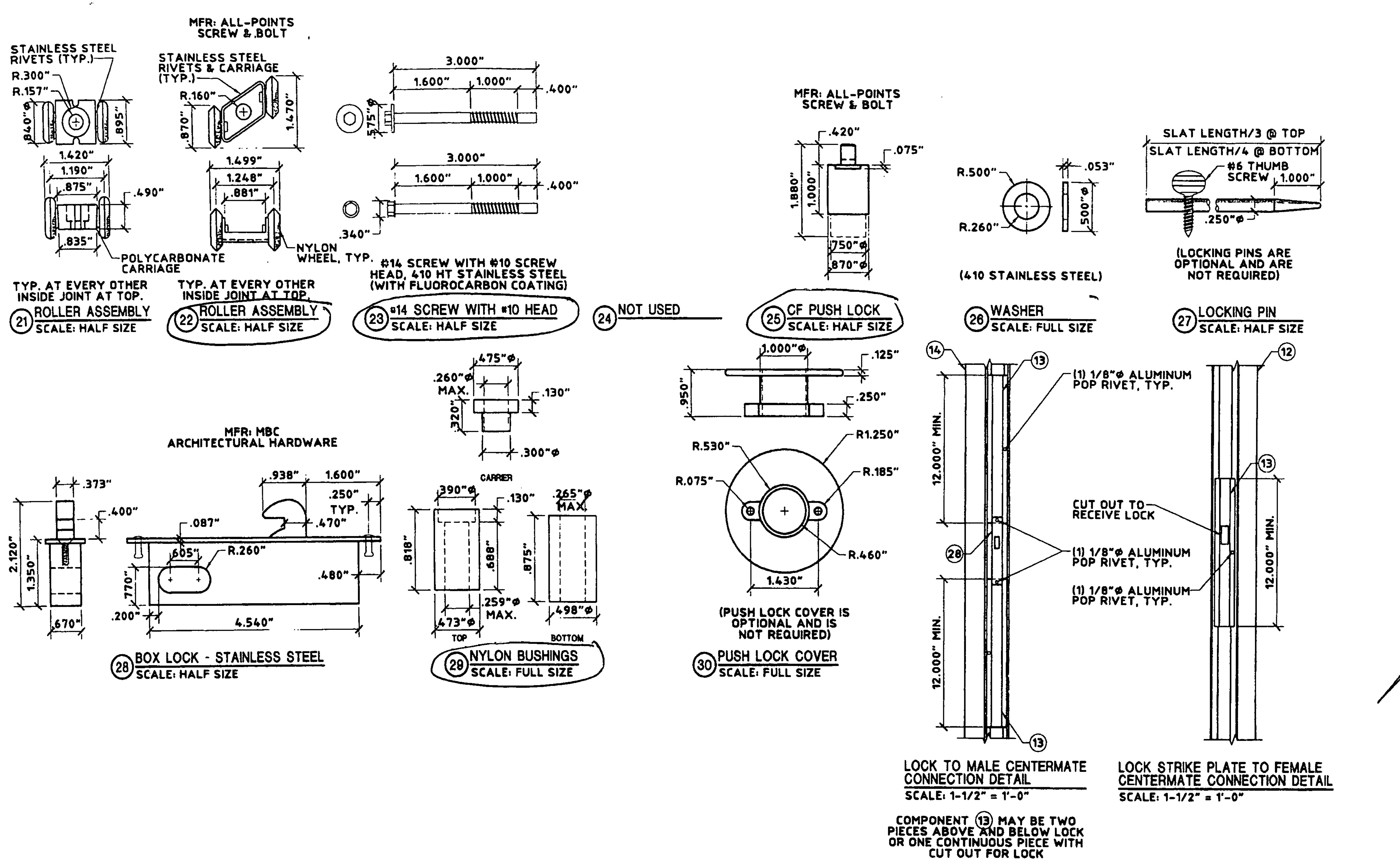

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J.W. Knezevich
Professional Engineer
FL License No.: PE 0041961

JUL 11 2007

no	date	by	revisions description
1	05/07/2007	TLF	F/F BLADE, HAT BUSHING, RANGUARD DIMENSION
2	07/03/2007	TLF	COUNTY COMMENTS

ASP I.D. # 070711064710

date 02/20/2007
scale AS NOTED
drawn by MCR
design by TLF
checked by JWK
drawing no. 07-376
sheet 3 of 6

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CWB

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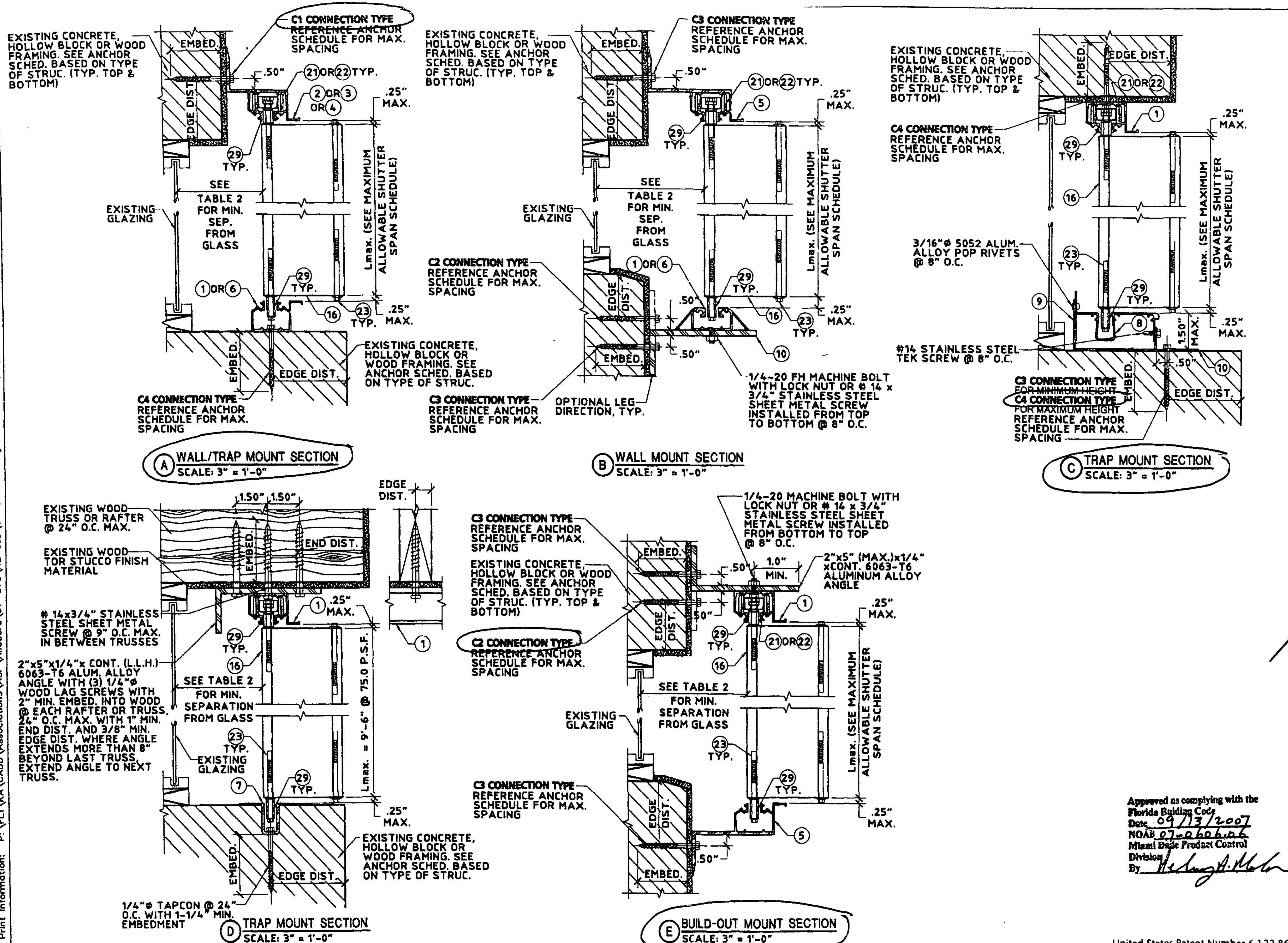

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Date 09/13/2007
NOA# 07-0606.06
Miami Dade Product Control Division
By [signature]

United States Patent Number 6,122,868

Pro Series I Accordion Shutter

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Professional Engineer
FL License No.: PE 0041961

JUL 11 2007

revisions			
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sheet 4 of 6

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TABLE 1

MAXIMUM ALLOWABLE SHUTTER SPAN SCHEDULE

DESIGN WIND LOAD (W) (P.S.F.)	ALL MOUNTING CONDITIONS	
	USE WITH INBLADE CENTERMATE (11)	USE WITH STANDARD CENTERMATES (12) & (14)
	Lmax (FT-IN)	Lmax (FT-IN)
47.00	13' - 6"	13' - 6"
50.00	13' - 3"	13' - 3"
55.00	12' - 10"	12' - 11"
60.00	12' - 3"	12' - 6"
65.00	11' - 10"	12' - 0"
70.00	11' - 4"	11' - 7"
75.00	11' - 0"	11' - 2"
80.00	10' - 8"	10' - 10"
85.00	10' - 4"	10' - 6"
90.00	10' - 0"	10' - 3"
95.00	9' - 9"	9' - 11"
100.00	9' - 6"	9' - 8"
105.00	9' - 3"	9' - 6"
110.00	9' - 1"	9' - 3"
115.00	8' - 10"	9' - 0"
120.00	8' - 8"	8' - 10"
125.00	8' - 6"	8' - 8"
130.00	8' - 4"	8' - 6"
135.00	8' - 2"	8' - 2"
140.00	7' - 11"	7' - 11"
145.00	7' - 7"	7' - 7"
150.00	7' - 4"	7' - 4"
155.00	7' - 1"	7' - 1"
160.00	6' - 11"	6' - 11"
165.00	6' - 8"	6' - 8"
170.00	6' - 6"	6' - 6"
175.00	6' - 4"	6' - 4"
180.00	6' - 2"	6' - 2"
185.00	6' - 0"	6' - 0"
190.00	5' - 10"	5' - 10"
195.00	5' - 8"	5' - 8"
200.00	5' - 6"	5' - 6"

(G) NOT USED

TABLE 2

MINIMUM SHUTTER SEPARATION FROM GLASS SCHEDULE

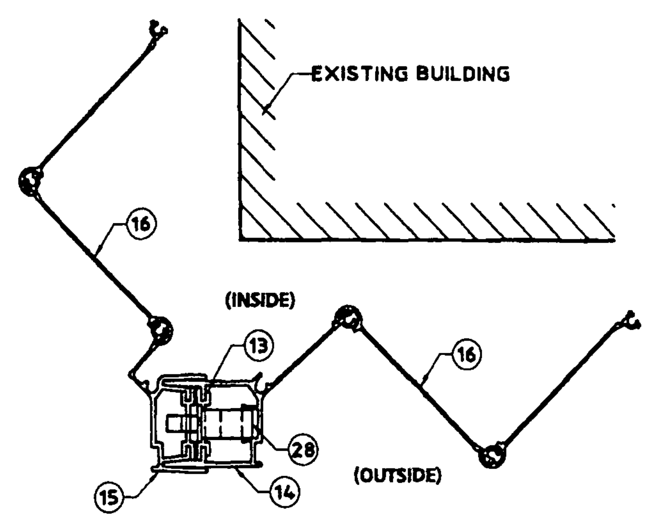
POSITIVE DESIGN LOAD (W) (P.S.F.)	ACTUAL SHUTTER SPAN (L) (FT-IN)	MINIMUM SEPARATION FOR INSTALLATIONS LESS THAN 30'-0" ABOVE GRADE (IN.)	MINIMUM SEPARATION FOR INSTALLATIONS GREATER THAN 30'-0" ABOVE GRADE (IN.)
30.00	5' - 0"	2-3/8"	1"
30.00	8' - 7"	2-3/8"	1-1/4"
30.00	10' - 0"	3"	1-3/8"
30.00	13' - 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
NOA# 07-0606.06
Miami Dade Product Control Division
By

United States Patent Number 6,122,868

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

JUL 11 2007

revisions

no	date	by	description
1	05/07/2007	TLF	F/F BLADE, HAT BUSHING, BANGUARD DIMENSION
2	07/03/2007	TLF	COUNTY COMMENTS

ASP I.D. # 07071106471D

date 02/20/2007
scale AS NOTED
drawn by MCR
design by TLF
checked by JWK
drawing no. 07-376
sheet 5 of 6

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) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 10'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 13'-6" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 6'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 10'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 13'-6" (SEE NOTE 1) 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	1/4"Ø ITW TAPCON WITH 1-3/4" MIN. EMBEDMENT (MIN. 3,192 P.S.I. 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
		60.0	16	16	15	12	13	10	12	9	7	7	7	9	6	5	5	16	16	16	15	16	10	12	9	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	7	7	7	6	7	5	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					
	1/4"Ø ELCO ULTRACON WITH 1-3/4" MIN. EMBEDMENT (MIN. 3,320 P.S.I. CONCRETE)	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
		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					
	1/4"Ø ELCO ULTRACON WITH HEX FLANGES WITH 1-3/4" MIN. EMBEDMENT (MIN. 3,320 P.S.I. CONCRETE)	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
		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					
	1/4"Ø ELCO CRETE FLEX WITH 2" MIN. EMBEDMENT (MIN. 3,350 P.S.I. CONCRETE)	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
		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					
	5/16"Ø ITW XL TAPCON WITH 1-3/4" MIN. EMBEDMENT (MIN. 2,900 P.S.I. CONCRETE)	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
		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					
	* 1/4"-20x1" ALL POINTS SOLID-SET ANCHOR, BOLT & SPECIALTY CO. WITH 7/8" EMBED. (MIN. 3,000 P.S.I. CONCRETE)	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
		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	1/4"Ø ITW TAPCON WITH 1-1/4" MIN. EMBEDMENT	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	4
		60.0	5	6	4	6	6	3	3		3	3						6	7	5	7	7	3	4	3	4	4		3		3	3
		75.0	4	4	3	4	5					3						4	5	4	5	6		3		3	3					
		170.0																														
		200.0																														
	1/4"Ø ELCO ULTRACON WITH HEX FLANGES WITH 1-1/4" MIN. EMBEDMENT	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
		60.0	5	6	4	7	8	3	4		4	4					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						5	6	4	7	8	3	3		4	4				3	3
		170.0																			3	3					3					3
		200.0																				3					3					
	1/4"Ø ELCO CRETE FLEX WITH 1-1/4" MIN. EMBEDMENT	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
		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					
		200.0		3		3	3		3		3	3							3		3	3		3		3	3					
	1/4"Ø ITW MAXI SET TAPCON WITH 1-1/4" MIN. EMBEDMENT	45.0	5	6	4	6	7	3	3		4	4					3	6	7	5	8	9	3	4	3	5	5		3		3	4
		60.0	3	4	3	5	5				3	3						4	5	4	6	6		3		3	4					3
		75.0	3	3		4	4											3	4	3	5	5										
		170.0																														
		200.0																														
	* 1/4"-20x1" ALL POINTS SOLID-SET ANCHOR, BOLT & SPECIALTY CO. WITH 7/8" EMBED.	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
		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	4	4	4	4	3	4	4	4	4	3	4	4
		200.0	3	4	3	3	3	3	4	3	3	3						4	4	3	4	4	4	4	3	4	4					

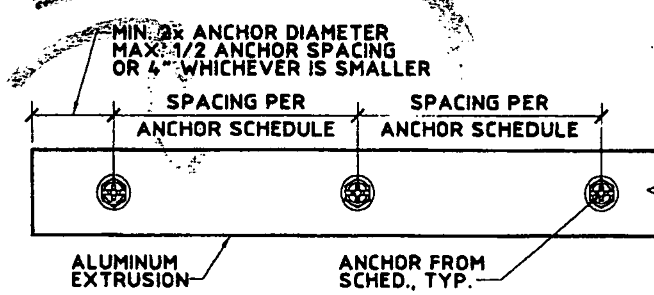
ANCHOR SCHEDULE

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. 3/4" EDGE DISTANCE														
			SPANS UP TO 6'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 10'-0" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)					SPANS UP TO 13'-6" (SEE NOTE 1) CONNECTION TYPE (SEE NOTE 3)				
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
WOOD	2" MIN. 1/4"Ø x MIN. 3" LONG LAG SCREW WITH MIN. 2" EMBED. SHEAR PARALLEL TO WOOD GRAIN	45.0	16	16	16	15	[illegible]	16	16	16	9	9	13	15	12	6	7
		60.0	16	16	16	11	12	13	16	12	7	7	10	11	9	5	5
		75.0	16	16	16	9	9	11	12	9	5	5	8	9	7	4	4
		170.0	8	9	7	4	4	7	8	6	3	3	7	8	6	3	3
		200.0	7	8	6	3	3	7	8	6	3	3					

ANCHOR NOTES:

1. SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE SHUTTER SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1.
2. ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
3. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
4. EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
5. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
7. WHERE EXISTING STRUCTURE IS POST-TENSIONED CONCRETE CONTRACTOR SHALL LOCATE CABLES PRIOR TO ANCHORING AND COORDINATE ANCHORAGE SUCH THAT CABLES ARE NOT DAMAGED.
8. WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
9. WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING. WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
10. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT), U.O.N.
11. ▨ DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
12. * DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.



Approved as complying with the Florida Building Code
Date 09/13/2007
NOA# 07-0606.06
Miami Dade Product Control Division
By [signature]

United States Patent Number 6,122,868

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

JUL 11 2007

revisions			
no	date	by	description
1	03/02/2007	TLF	F/R BLADE, HAT BUSHING, BARACUARD DIMENSION
2	07/02/2007	TLF	COUNTY COMMENTS

ASP I.D. # 070711064710

date 02/20/2007
scale AS NOTED
drawn by MCR
design by TLF
checked by JWK
drawing no. 07-376
sheet 6 of 6

B0902546
10centuruka
Office Copy

04-13-09
CMB

City of Miami Beach
Building Department
Shutter Permit
OFFICE COPY

Review Type	Initials	Date
Structural		04/13/09
Electrical		4/13/2009.
Zoning		

CITY OF MIAMI BEACH **B1000255 APP**
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139
Inspections: (305) 673-7370
Office: (305) 673-7610

Bldg Small Work Permit

10-21-2009

Activity Number: B1000255

Status: APPROVED

Issued By: BUILTRIL

Site Address: 10 CENTURY LA MBCH
Parcel #: 32330020100

Applied: 10/20/2009
Approved: 10/21/2009
Completed:
To Expire: 04/19/2010

Valuation: $4,500.00

Applicant: KING ROOFING & CONSTRUCTION CORP
10220 W. SR 84 # 3
DAVIE FL 33324
954.534.4756

Property Owner: HERIBERTO SANCHEZ
10 CENTURY LN
MIAMI BEACH FL 331398803

Description: Re-Roof/ 1,100 Sq.Ft
Inspector Area: n
Class Code: r3

DETAIL LIST

Alteration/Repair Fees		
Alteration Bulding/Structures - Per Costs:	$0.00	$0.00
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	$15.00
Repairs to Building/Structure - Per Costs:	$0.00	$0.00
Roofing or Re-roofing - Per Sq.Ft.:	1100	$75.00
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
OCT 2009
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

[BSBLDPRM]

Activity Number: B1000255

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:		$5.00
Sanitation Fee:		$15.00
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:		$0.00
Total of All Fees:		$113.00
Total of Payments:		$122.90
Balance Due:		($9.90)

CITY OF MIAMI BEACH
Miami Beach, Florida 33139

RECEIPT OF PAYMENT

(This is not a permit it is a receipt only)

10-20-2009

Activity Number: **B1000255**
Status: **INREVIEW**

Receipt: R100001504

Date Applied: **10/20/2009** Date Issued: **Entered By:** **BUILTRIL**
Date Completed: Date Expired:

Site Address: **10 CENTURY LA MBCH** **Balance Due:** **$0.00**
Parcel #: **32330020100** **Valuation:** **$4,500.00**

Applicant: **KING ROOFING & CONSTRUCTION CORP**
10220 W. SR 84 # 3
DAVIE FL 33324
954.534.4756

Owner: **HERIBERTO SANCHEZ**
10 CENTURY LN
MIAMI BEACH FL 331398803

Description: Re-Roof/ 1,100 Sq.Ft

Payments made for this receipt:

Type	Method	Desct.	Amount
Payment	Check	1037	122.90

Payment Made: 10/20/2009 01:04 PM Accepted By: LT

PAID
OCT 2 0 2009
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

Total Payment: 122.90 Payee: king roofing & construction corp

Current Payment Made to the Following Items:

Account Code	Description	Amount
011800032210	Building Permits	75.00
011800032263	Zoning	15.00
011800032264	Fire	9.90
435800036329	Sanitation Impact Fees	15.00
601700022921	SFBC Compliance Fee	3.00
601700022925	Training	5.00

Account Summary for Fees and Payments:

Item#	Description	Account Code	Tot Fee	Paid	Prev. Pmts	Cur. Pmts
10	Building Permits	0118000322100	75.00	75.00	.00	75.00
270	Zoning	0118000322630	15.00	15.00	.00	15.00
280	Fire	0118000322640	9.90	9.90	.00	9.90
420	SFBC Compliance Fee	6017000229217	3.00	3.00	.00	3.00
430	Training	6017000229253	5.00	5.00	.00	5.00
440	Sanitation Impact Fe	4358000363293	15.00	15.00	.00	15.00

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

~~Expired Permits~~

$122.90

WORK PERMIT APPLICATION

FLORIDA BUILDING CODE IN EFFECT

DATE 10/19/09 PERMIT # 1M000755.

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

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

For DEMOLITION provide the year the structure was built______ **Historic District** ☐Yes ☑No

Type of Property ☑Single Family ☐Commercial ☐Multi-Family/Condo

TYPE OF IMPROVEMENT : ☑Building ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ **REVISION**

Describe RE-ROOF with Mortar Tile, Slope Roof

Job Value $ 4,500 **Square Feet** 1,100 **Linear Feet**______ **Pool Gallonage**______ **No. of units** 1

Job Address 10 Century ln. Miami Beach Fl. 33139

Folio # 02 3233 002 0100 **Unit #**______

City______ State______ Zip______ Phone______

Owner/Owner Builder Heriberto Sanchez Drivers License No.______

Address 10 Century ln.

City Miami Beach State Fl. Zip 33139 Phone______

Fee Simple Titleholder's Name (if other than owner)______

Address______

City______ State______ Zip______ Phone______

Contractor King Roofing & Construction Corp License No. CCC 1328135.

Address 2129 SW 176 Ave.

City Miramar State Fl. Zip 33029 Phone 954.5344756.

Cell# 9548546399 Fax # 954.4473000.

☐**Architect**______ License No.______

Address______

City______ State______ Zip______ Phone______

☐**Engineer**______ License No.______

Address______

City______ State______ Zip______ Phone______

PLEASE COMPLETE SHADED AREAS

BUILDING WORK PERMIT APPLICATIONS ARE AVAILABLE ON THE MIAMI BEACH WEBSITE AT : WWW.MIAMIBEACHFL.GOV

Bonding company Name____

Address____

City_______________ State_______ Zip__________ Phone______________

Mortgage Lender's Name____

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 **SEPARATE PERMITS** are required for ***Electrical, Mechanical, Plumbing, Signs, Swimming Pools, Spas, Windows, Sliding Glass Doors and Roofing***.

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.

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

Signature of Owner or Agent	Signature of Tenant	Signature of Qualifier
Herberto Sanchez Printed Name of Owner or Agent	Printed Name of Tenant	Harold M. Baena Printed Name of Qualifier
Date 10-19-09	Date	Date 10-19-09.
Signature of Notary Public	Signature of Notary Public	Signature of Notary Public
Identification P. Known	Identification	Identification P Known
Sworn to and subscribed before me this 19 day of October 20 09. (Seal)	Sworn to and subscribed before me this ___ day of ________ 20___. (Seal)	Sworn to and subscribed before me this 19 day of October 20 09. (Seal)
LILIANA MUNOZ MY COMMISSION # DD689878 EXPIRES June 27, 2011 (407) 398-0153 FloridaNotaryService.com		LILIANA MUNOZ MY COMMISSION # DD689878 EXPIRES June 27, 2011 (407) 398-0153 FloridaNotaryService.com

NOTICE OF COMMENCEMENT SHOULD BE FILED AT: 22 NW 1ST STREET, MIAMI, FL

STATE OF FLORIDA **COUNTY OF DADE**

Herberto Sanchez
Print Owner's Name

Owner's Signature

Sworn to and subscribed before me this 19 day of October 20 09, by: Herberto Sanchez

(✓) Personally Known ( ) Produced Identification - Type of Identification__________

Signature of Notary Public (Seal)

LILIANA MUNOZ
MY COMMISSION # DD689878
EXPIRES June 27, 2011
(407) 398-0153 FloridaNotaryService.com

Application Approved By: ______________________________
Permit Clerk

Florida Building Code Edition 2004

High-Velocity Hurricane Zone Uniform Permit Application Form

PUBLIC WORKS
PLAN REVIEW NOTICE
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 posting of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)

Approved/Reviewed By: B. Duvall Date: 10/21/09

Section A (General Information)

Master Permit No. ______ **Process No.** ______

Contractor's Name Kuhl's Roofing & Construction Corp.

Job Address 10 Century ln. Miami Beach FL 33139

ROOF CATEGORY

☒ Low Slope ☐ Mechanically Fastened Tile ☒ Mortar/Adhesive Set Tile

☐ Asphaltic Shingles ☐ Metal Panel/Shingles ☐ Wood Shingles/Shakes

☐ Prescriptive BUR-RAS 150

ROOF TYPE

☐ New Roof ☒ Reroofing ☐ Recovering ☐ Repair ☐ Maintenance

ROOF SYSTEM INFORMATION

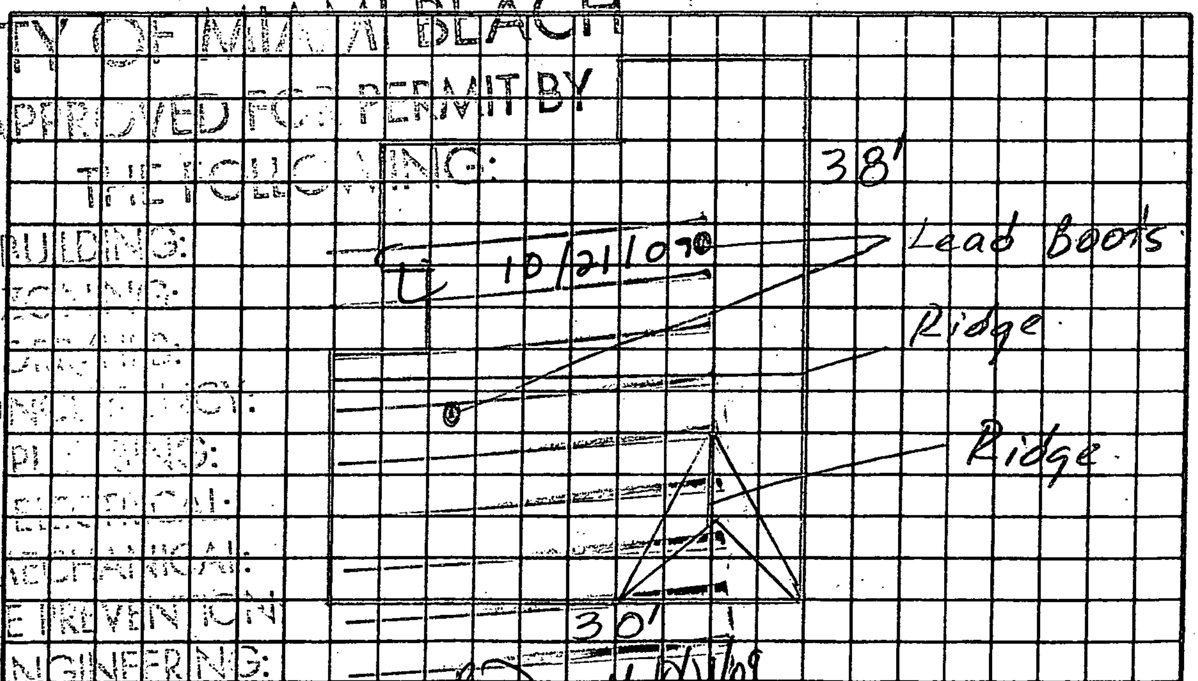
Low Slope Roof Area (SF) ______ Steep Sloped Roof Area (SF) 1,700 Total (SF) 1,700

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 [illegible] and there may be additional permits required from other governmental [illegible] such as water management's districts, state agencies, or federal agencies. The City of Miami Beach assumes no responsibility for accuracy of or results from these plans which [illegible] compliance with all Federal, State, and Local Laws, Rules, and Regulations.

Section B (Roof Plan)

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.

OFFICE COPY



CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING: 10/21/09
ZONING:
[illegible]
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS: B. Duvall 10/21/09
STRUCTURAL: Perez 10/21/09
ELEVATOR:

Florida Building Code Edition 2004

High-Velocity Hurricane Zone Uniform Permit Application Form.

Section D (Steep Sloped Roof System)

Roof System Manufacturer: Monier lifetile llc.

Notice of Acceptance Number: 06-0524.02

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):
P1: -45.1 **P2:** -78.6 **P3:** -116.2

Maximum Design Pressure (From the Product Approval Specific System):
06-0201.02 <-86.61>

Steep Sloped Roof System Description

Roof Slope: 4 : 12

Ridge Ventilation? N/A

Mean Roof Height: 10'

Deck Type: 5/8" Plywood

Type Underlayment: #30 lb.

Insulation: N/A

Fire Barrier: N/A

Fastener Type & Spacing: 1 1/4" Shank Nail and Tin Cap.

Adhesive Type: Polyfoam 160H And 2 #8 screws.

Type Cap Sheet: TU plus with Bell nail.

Roof Covering: Monier Mortar Tile

Type & Size Drip Edge: 26 Ga. 3" x 3"

Polyfoam 160 on perimeter end 2 #8 screws on Field.

Section E 2

AH ROSE

MIAMI-DADE COUNTY

"Delivering Excellence Every Day"

Miami-Dade County Building Department Electronic Application
High Velocity Hurricane Zone Roofing Permit Application Form

Section E (Tile Calculations)

Method 1 "Moment Based Tile Calculations Per RAS 127"

For Moment based tile systems, use Method 1. Compare the values for Mr with the values from Mf. If the Mf values are greater than or equal to the Mr values, for each area of the roof, then the tile attachment method is acceptable.

P 1: 45.1 × λ 0.289 = 13.03 - Mg: 7.62 = Mr1: 5.41 ≤ 47.1 NOA Mf

P 2: 78.6 × λ 0.289 = 22.71 - Mg: 7.62 = Mr2: 15.09 ≤ 47.1 NOA Mf

P 3: 116.2 × λ 0.289 = 33.58 - Mg: 7.62 = Mr3: 25.96 ≤ 47.1 NOA Mf

Method 3 "Uplift Based Tile Calculations Per RAS 127"

For Uplift based tile systems use Method 3. Compare the values for F' with the values for Fr. If the F' values are greater than or equal to the Fr values, for each area of the roof, then the tile attachment method is acceptable.

P1: ___ × l: ___ = ___ × w: ___ = ___ - W: ___ = ___ × cos θ: ___ = Fr1: ___ ≤ ___ NOA F'

P2: ___ × l: ___ = ___ × w: ___ = ___ - W: ___ = ___ × cos θ: ___ = Fr2: ___ ≤ ___ NOA F'

P3: ___ × l: ___ = ___ × w: ___ = ___ - W: ___ = ___ × cos θ: ___ = Fr3: ___ ≤ ___ NOA F'

Where to Obtain Information to complete tile calculations

Description	Symbol	Where to Find
Design Pressure	P1 or P2 or P3	Table 1 RAS 127, or by an engineer analysis prepared, signed and sealed by a professional engineer based on ASCE 7.
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval (NOA)
Restoring Moment due to Gravity	Mg	Product Approval (NOA)
Attachment Resistance	Mf	Product Approval (NOA)
Required Moment Resistance	Mr	Calculated
Minimum Attachment Resistance	F'	Product Approval (NOA)
Required Uplift Resistance	Fr	Calculated
Average Tile Weight	W	Product Approval (NOA)
Tile Dimensions	l = length w = width	Product Approval (NOA)

CMB
10·21·09

SECTION R4402.13
HIGH-VELOCITY HURRICANE ZONES — REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

R4402.13.1 Scope.
As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Section R4402 govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initial in the designated space indicates that the item has been explained.

___ 1. **Aesthetics-workmanship** : The workmanship provisions of Section R4402 are for the purpose of providing that the roofing system meets the wind resistance and water intrusion performance standards. Aesthetics (appearance) are not a consideration with respect to workmanship provisions. Aesthetic issues such as color or architectural appearance, that are not part of a zoning code, should be addressed as part of the agreement between the owner and the contractor.

___ 2. **Renailing wood decks:** When replacing roofing, the existing wood roof deck may have to be renailed in accordance with the current provisions of Section R4403. (The roof deck is usually concealed prior to removing the existing roof system.)

___ 3. **Common roofs:** Common roofs are those which have no visible delineation between neighboring units (i.e., townhouses, condominiums, etc.). In buildings with common roofs, the roofing contractor and/or owner should notify the occupants of adjacent units of roofing work to be performed.

___ 4. **Exposed ceilings** : Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The provides the option of maintaining this appearance.

___ 5. **Ponding water:** The current roof system and/or deck of the building may not drain well and may cause water to pond (accumulate) in low-lying areas of the roof. Ponding can be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the original roofing system is removed. Ponding conditions should be corrected.

___ 6. **Overflow scuppers (wall outlets):** It is required that rainwater flow off so that the roof is not overloaded from a buildup of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of Sections R4402, R4403 and R4413.

___ 7. **Ventilation**: Most roof structures should have some ability to vent natural airflow through the interior of the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced. It may be beneficial to consider additional venting which can result in extending the service life of the roof.

10, 19, 09

Owner's/Agent's Signature | Date | Contractor's Signature

10-30-08
CHB

MIAMI-DADE
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)

Monier Lifetile, LLC
200 Story Road
Lake Wales, FL 33853

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 Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Villa 900 Concrete Roof Tile.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and 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 pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.

NOTE: 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. The City of Miami Beach assumes no responsibility for accuracy of or results from these plans approved subject to compliance with all Federal, State, and County Rules and Regulations.

NOA No.: 06-0524.02
Expiration Date: 09/21/11
Approval Date: 09/21/06

61000922

10-30-03
CHB

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Low Profile Roofing Tiles
Material:	Concrete

1. SCOPE

This renews a system using Monier Lifetile Villa 900 Concrete Roof Tile, as manufactured Monier Lifetile LLC in Lake Wales, FL. and described in Section 2 of this Notice of Acceptance. For locations where the pressure requirements, as determined by applicable Building Code does not exceed the design pressure values obtained by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

Manufactured by Applicant	Dimensions	Test Specifications	Product Description
Monier Lifetile LLC Villa 900	l = 17" w = 13" ½" thick	TAS 112	Low profile, interlocking, high pressure extruded concrete roof tile equipped with one nail hole and double roll ribs. For direct deck or battened nail-on, mortar or adhesive set applications.
Trim Pieces	l = varies w = varies varying thickness	TAS 112	Accessory trim, concrete roof pieces for use at hips, rakes, ridges and valley terminations.

2.1 SUBMITTED EVIDENCE:

Test Agency	Test Identifier	Test Name/Report	Date
Nutting Engineers	13343.1	TAS 112	Apr. 2006
Redland Technologies	7161-03 Appendix III	Static Uplift Testing TAS 102 & TAS 102(A)	Dec. 1991
Redland Technologies	7161-03 Appendix II	Wind Tunnel Testing TAS 108 (Nail-On)	Dec. 1991
Redland Technologies	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
The Center for Applied Engineering, Inc.	94-060B	Static Uplift Testing TAS 101 (Adhesive Set)	March, 1994
The Center for Applied Engineering, Inc.	94-084	Static Uplift Testing TAS 101 (Mortar Set)	May 1994

10-30-00
CHB

Test Agency	Test Identifier	Test Name/Report	Date
Redland Technologies	P0631-01	Wind Tunnel Testing TAS 108 (Mortar Set)	July 1994
Redland Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing TAS 108 (Nail-On)	Aug. 1994
The Center for Applied Engineering, Inc.	Project No. 307025 Test #MDC-76	Wind Driven Rain TAS 100	Oct. 1994
The Center for Applied Engineering, Inc.	25-7183-1	Static Uplift Testing TAS 102 (2 Quik-Drive Screws, Direct Deck)	Feb. 1995
The Center for Applied Engineering, Inc.	25-7183-2	Static Uplift Testing TAS 102 (2 Quik-Drive Screws, Battens)	Feb. 1995
The Center for Applied Engineering, Inc.	25-7214-2 25-7214-6	Static Uplift Testing TAS 102 (1 Quik-Drive Screw, Direct Deck) (1 Quik-Drive Screw, Battens)	March, 1995
Celotex Corporation Testing Services	528454-2-1 520109-2	Static Uplift Testing TAS 101	Sep. 1998 Dec. 1998
Walker Engineering, Inc.	Evaluation Calculations	25-7183	March 1995
Walker Engineering, Inc.	Evaluation Calculations	25-7094	February 1996
Walker Engineering, Inc.	Evaluation Calculations	25-7496	April 1996
Walker Engineering, Inc.	Evaluation Calculations	25-7584 25-7804b-8 25-7804-4 & 5 25-7848-6	December 1996
Walker Engineering, Inc.	Evaluation Calculations	Aerodynamic Multipliers	May 2006
Walker Engineering, Inc.	Evaluation Calculations	Two Patty Adhesive Set System	April 1999
Walker Engineering, Inc.	Evaluation Calculations	Restoring Moment Due to Gravity	April 2006

10-30-00
CWB

3. LIMITATIONS

3.1 Fire classification is not part of this acceptance.

3.2 For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with RAS 106.

3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Building Code Compliance Office for review.

3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.

3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.

3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.

4. INSTALLATION

4.1 Monier Lifetile Villa 900 Concrete Roof Tile and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119, and RAS 120.

4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)

Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Monier Lifetile Villa 900 Concrete Tile	10.94	1.425	1.08

Table 2: Aerodynamic Multipliers - λ (ft³)

Tile Profile	λ (ft³) Batten Application	λ (ft³) Direct Deck Application
Monier Lifetile Villa 900 Concrete Tile	0.289	0.289

Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)

Tile Profile	3":12"		4":12"		5":12"		6":12"		7":12" or greater	
	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck
Monier Lifetile Villa 900 Concrete Tile	6.79	7.70	6.73	7.62	6.63	7.51	6.50	7.37	6.36	7.21

Table 4: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Nail-On Systems

Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens
Monier Lifetile Villa 900 Concrete Tile	2-10d Ring Shank Nails	27.8	37.4	28.8
	1-10d Smooth or Screw Shank Nail	8.8	11.8	4.1
	2-10d Smooth or Screw Shank Nails	16.4	21.9	7.1
	1 #8 Screw	25.8	25.8	22.9
	2 #8 Screw	47.1	47.1	49.1
	1-10d Smooth or Screw Shank Nail (Field Clip)	24.3	24.3	24.2
	1-10d Smooth or Screw Shank Nail (Eave Clip)	19.0	19.0	22.1
	2-10d Smooth or Screw Shank Nails (Field Clip)	35.5	35.5	34.8
	2-10d Smooth or Screw Shank Nails (Eave Clip)	31.9	31.9	32.2

Table 5: Attachment Resistance Expressed as a Moment M_f (ft-lbf) for Two Patty Adhesive Set Systems

Tile Profile	Tile Application	Minimum Attachment Resistance
Monier Lifetile Villa 900 Concrete Tile	Adhesive[1]	26.1[2]

1 See manufactures component approval for installation requirements.

2 Flexible Products Company TileBond Average weight per patty 11.4 grams.
Polyfoam Product, Inc. Average weight per patty 8 grams.

Table 5A: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Single Patty Adhesive Set Systems

Tile Profile	Tile Application	Minimum Attachment Resistance
Monier Lifetile Villa 900 Concrete Tile	Polyfoam PolyPro™	86.61[3]
	Polyfoam PolyPro™	45.5[4]

3 Large paddy placement of 54grams of PolyPro™.

4 Medium paddy placement of 24grams of PolyPro™.

10-50-08
CWB

Table 5B: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Mortar Set Systems		
Tile Profile	**Tile Application**	**Attachment Resistance**
Monier Lifetile Villa 900 Concrete Tile	Mortar Set[1]	20.60
5 See specific mortar manufacturer's Notice of Acceptance		

5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo, or following statement: "Miami-Dade County Product Control Approved".

LABEL FOR VILLA 900 CONCRETE TILE
(LOCATED ON THE UNDERSIDE OF TILE)

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

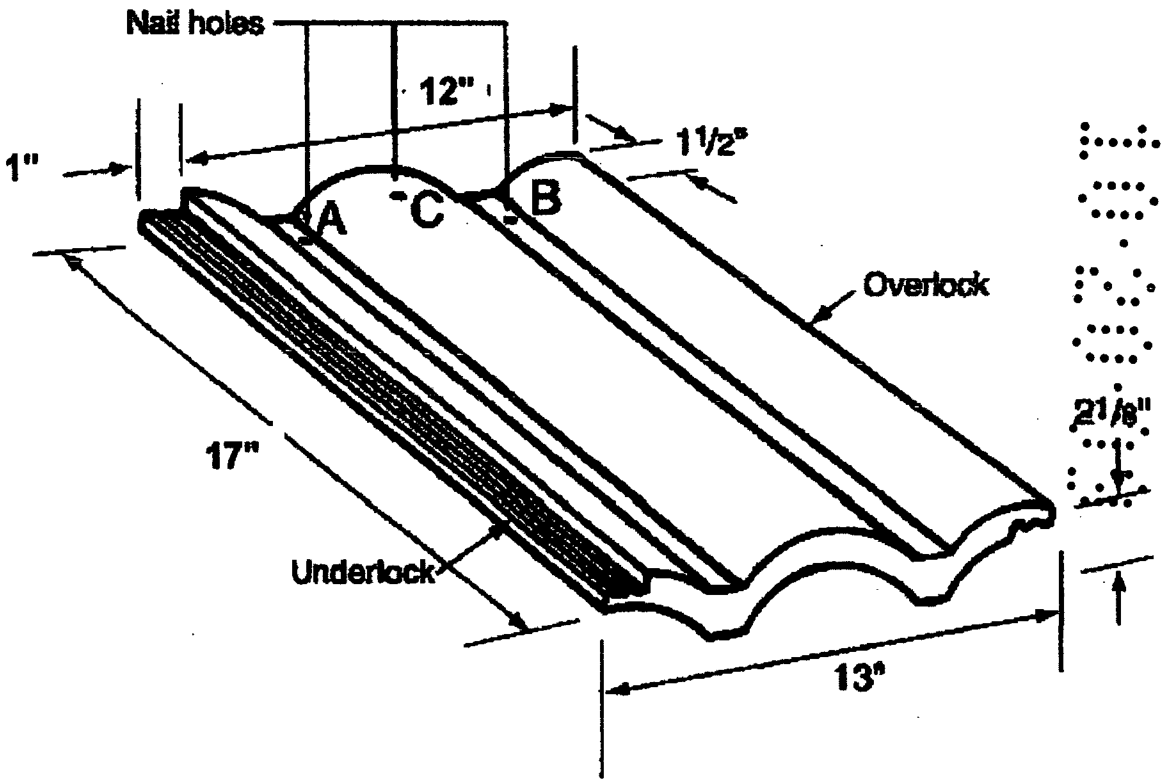
6.1.1 This Notice of Acceptance.

6.1.2 Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

CMB

10·20·09

PROFILE DRAWING



MONIER LIFETILE VILLA 900 CONCRETE ROOF TILE

END OF THIS ACCEPTANCE

10-50-09
CHB

MIAMI-DADE

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)

Polyglass USA Inc.
150 Lyon Drive
Fernley, NV 89408

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 Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Polystick P, Basik, IR/IRX, TU, TU Plus, TU Polyester and MU Underlayments

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and 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 NOA No. 06-0505.01 and consists of pages 1 through 6.
The submitted documentation was reviewed by Jorge L. Acebo.

NOA No.: 07-1025.10
Expiration Date: 09/13/11
Approval Date: 04/10/08

MIAMI-DADE COUNTY APPROVED

10-30-03

CWB

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: SBS , APP Self-Adhering Modified Bitumen

PRODUCTS DESCRIPTION:

Product	Dimensions	Test Specification	Product Description
Polystick P underlayment	Roll: 75’ x 3’ 40 mils thick	ASTM D 1970	A polyethylene top surface, self-adhering, SBS polymer modified bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield.
Polystick Basik underlayment	Roll: 65’8” x 3’3-3/8” 60 mils thick	ASTM D 1970	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use an underlayment for metal roofing.
Polystick IR/IRX underlayment	Roll: 65’8” x 3’3-3/8” 80 mils thick	TAS 103 and ASTM D 1970	A fine granular/sand top surface self-adhering, APP polymer modified, fiberglass reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield and as a flat roof tile underlayment.
Polystick TU underlayment	Roll: 32’10” x 3’3-3/8” 100 mils thick	TAS 103 and ASTM D 1970	A heavy granuled surface self adhering, APP polymer modified, fiberglass or polyester reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as a a roof tile underlayment.
Polystick TU Plus underlayment (Facer of Membrane Labeled in Orange or Black Ink)	Roll: 65’8” x 3’3-3/8” 80 mils thick	TAS 103 and ASTM D 1970	A non-wicking fabric surfaced, self-adhering, APP polymer modified, fiberglass reinforced with a high strength polyester fabric, bituminous sheet material for use an an underlayment in sloped roof assemblies. Designed as a metal roofing and roof tile underlayment.
Polystick TU Polyester	Roll: 32’10” x 3’3-3/8” 130 mils thick	TAS 103	A rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface designed for use as a tile roof underlayment.
Polystick MU underlayment	Roll: 65’8” x 3’3-3/8” 80 mils thick	TAS 103 and ASTM D 1970	A non-wicking fabric surfaced, self-adhering, APP polymer modified, fiberglass reinforced, bituminous sheet material for use an an underlayment in sloped roof assemblies. Designed as a metal roofing and roof tile underlayment.

10-30-03

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EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Exterior Research & Design, LLC	#11756.04.01-1	TAS 103	04/27/01
	#11756.08.01-1	ASTM D 1970	08/14/01
	#02202.08.05	TAS 103	08/29/05
Trinity | ERD	#P5110.08.07	TAS 103	08/29/07
PRI Asphalt Technologies	PRI01111	ASTM D 4977	04/08/02
	PUSA-005-02-01	ASTM D 4977	01/31/02
	PUSA-018-02-01	ASTM D 2523	07/14/03
	PUSA-035-02-01	TAS 103	09/29/06
	PUSA-033-02-01	ASTM D 1970	01/12/06
Momentum Technologies, Inc.	JX20H7A	ASTM D 4798 ASTM G 155	04/01/08

INSTALLATION PROCEDURES:

Deck Type 1: Wood, non-insulated, new construction

Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626 or Polyprotector UDL or Polyprotector UDL AS.

Fastening: Nails and tin caps 12" grid, 6" o.c. at laps. (for base sheet only)

Membrane: Polystick membranes self-adhered.

Surfacing: None

1. All nails in the deck shall be carefully checked for protruding heads. Re-fasten any loose decking panels, and sweep the deck thoroughly to remove any dust and debris prior to application.
2. Place the underlayment over metal drip edge in accordance with RAS 111.
3. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release film as the membrane is applied. . All side laps shall be a minimum of 3-½" and end laps shall be a minimum of 6." Roll the membrane into place after removing the release strip. Vertical strapping of the roof with Polystick is acceptable. Membrane shall be back nailed in accordance with applicable building code.
4. When applying the membrane in the valley, start at the low point and work to the high point, rolling the membrane from the center outward in both directions.
5. For ridge applications, center the membrane and roll from the center outward in both directions.
6. Roll or broom the entire membrane surface so as to have full contact with the surface, giving special attention to lap areas.
7. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance.
8. All protrusions or drains shall be initially taped with a 6" piece of underlayment. The flashing tape shall be pressed in place and formed around the protrusion to ensure a tight fit. A second layer of Polystick shall be applied over the underlayment.

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10-20-03

GENERAL LIMITATTIONS: (CONTINUED)

10. Refer to prepared roofing system Product Control Notice of Acceptance for listed approval of this product with specific prepared roofing products. Polystick P, Basik, IR/IRX, TU, TU Plus, TU Polyester & MU may be used with any approved roof covering Notice of Acceptance listing Polystick P, Basik, IR/IRX, TU, TU Plus, TU Polyester & MU as a component part of an assembly in the Notice of Acceptance. If Polystick P, Basik, IR/IRX, TU, TU Plus, TU Polyester & MU is not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.

LABELING:

1. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY APPROVED

BUILDING PERMIT REQUIREMENTS:

Application for building permit shall be accompanied by copies of the following:

1. This Notice of Acceptance.
2. Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this materials.

POLYGLASS GENERAL APPLICATION GUIDELINES FOR POLYSTICK MEMBRANES:

1. Polyglass does accept the direct application of Polystick underlayment membranes to wood decks. Installers are cautioned to refer to applicable local building codes prior to direct deck installation to ensure this is acceptable. Please also refer to applicable Product Data Sheets of the corresponding products.
2. All rolls, with the exception of Polystick TU Plus and Polystick MU should be back-nailed in selvage edge seam as per Polyglass Back Nailing Guide. Nails shall be, 11 gauge ring shank type, applied with a minimum 1" metal disk as required in Dade County or simplex type nail as otherwise allowable in other regions, at a minimum rate of 12" o.c. Polystick TU Plus and Polystick MU should be back nailed in designated area marked "nail area, area para clavar" on the face of membrane, with the above stated nails and/or disks. The head lap membrane is to cover the area being back-nailed. (Please refer to applicable local building codes prior to installation.)
3. All seal lap seams (selvage laps) must be rolled with a hand roller to ensure full contact.
4. All fabric over fabric; and granule over granule end laps, shall have a 6" wide, uniform layer of Polyglass Polyplus 55 Premium Modified Flashing Cement, Polyglass Polyplus 50 Premium MB Flashing Cement, Polyglass PG500 MB Flashing Cement, Mule-Hide 241 Premium Modified Flashing Cement, Mule-Hide 251 Premium Wet/Dry Elastomeric Flashing Cement, or Mule-Hide 421 Mod Bit Flashing Adhesive Trowel Grade mastic, applied in between the application of the lap. The use of mastic between the laps does not apply to Polystick Basik.
5. A maximum of 6 tiles per stack are allowed when loading tile on the underlayments. Refer to the Polyglass Tile Loading Guidelines.

10-20-03

CWB

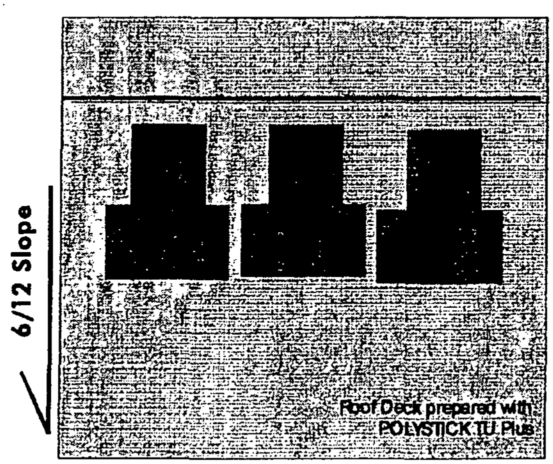
GENERAL LIMITATIONS:

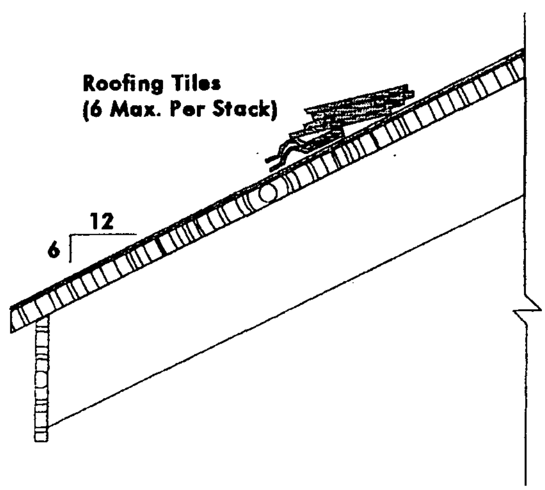
1. Fire classification is not part of this acceptance.
2. Polystick P, Basik and IR/IRX may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, and quarry slate roof assemblies. Polystick P and Basik shall not be used as roof tile underlayment.
3. Deck requirements shall be in compliance with applicable building code.
4. Polystick membranes shall be applied to a smooth, clean and dry surface. The deck shall be free of irregularities.
5. Polystick membranes shall not be adhered directly over a pre-existing roof membrane as a recover system.
6. Polystick P, Basik, IR/IRX, TU, TU Polyester and MU Underlayments shall not be left exposed as a temporary roof for longer than 30 days after application. Polystick TU Plus shall not be left exposed as a temporary roof for longer than 180 days after application. Polyglass reserves the right to revise or alter product exposure times; not to exceed the preceeding maximum time limitations.
7. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.
8. In roof tile application, data for the attachment resistance of roof tiles shall be as set forth in the roof tile manufacturer's Notice. Polystick TU, TU Plus and MU may be used in both adhesive set and mechanically fastened roof tile applications. Polystick IR/IRX is limited to mechanically fastened roof tile applications. Polystick TU Polyester may be used in both adhesive set and mechanically fastened roof tile applications with the exception of mortar set tile applications. The maximum roof slope for use as roof tile underlayment for (direct-to-deck) tile assemblies shall be as described below:

Tile Profile	Polystick IR/IRX	Polystick MU	Polystick TU, TU Plus TU Polyester
Flat Tile	5:12	No limitation	No limitation
Profiled Tile	Prohibited	5:12	No limitation

The above slope limitations can be exceeded only by using battens and counter battens in accordance with the Approved Tile System Notice of Acceptance and applicable Florida Building Code requirements.

9. Care should be taken during the loading procedure to keep foot traffic to a minimum and to avoid dropping of tile directly on the underlayment. Refer to Polyglass Tile loading detail for loading procedure.





MIAMI-DADE COUNTY APPROVED

6. Battens and/or Counter-battens, as required by the tile manufacturers NOA's, must be used on all projects for pitch/slopes of 7"/12" or greater. It is suggested that on pitch/slopes in excess of 6 ¼"/12", precautions should be taken, such as the use of battens to prevent tile sliding during the loading process.

7. Minimum cure time after membrane installation & before loading of roofing tiles is Forty-Eight (48) Hours.

8. Polystick TU Plus, Polystick MU may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details.

9. Repair of Polystick membranes is to be accomplished by applying Polyglass Polyplus 55 Premium Modified Flashing Cement, Polyglass Polyplus 50 Premium MB Flashing Cement, Polyglass PG500 MB Flashing Cement, Mule-Hide 241 Premium Modified Flashing Cement, Mule-Hide 251 Premium Wet/Dry Elastomeric Flashing Cement, or Mule-Hide 421 Mod Bit Flashing Adhesive Trowel Grade mastic to the area in need of repair, followed by a patch of the Polystick material of like kind should be set and hand rolled in place over the area needing such repair. Patching membrane shall be a minimum of 6 inches in either direction. The repair should be installed in such a way so that water will run parallel to or over the top of all laps of the patch.

10. All self-adhered membranes must be rolled to ensure full contact with approved substrates. Polyglass requires a minimum of 40 lbs for a weighted roller for the rolling of the field membrane. Hand rollers are acceptable for rolling of patches or small areas of the roof.

11. All approved substrates should be dry, clean and properly prepared, before any application of Polystick membranes commences. An approved substrate technical bulletin can be furnished upon request. It is recommended to refer to applicable building codes prior to installation to verify acceptable substrates.

12. The Polyglass Miami-Dade Notice of Acceptance (NOA) approval for Polystick membranes and PolyProtector UDL can be furnished upon request by our Technical Services Department by calling 1 (800) 894-4563.

13. Polyglass offers a 10 year Limited Material Warranty on all properly installed Polystick self-adhered underlayments. Warranty must be requested and registered by Polyglass to be in force.

14. Questions in regards to the application of Polyglass products should be directed to our Technical Services Department at 1 (800) 894-4563.

15. Polyglass recommends that applicators follow good roofing practices and applicable procedures as outlined by the National Roofing Contractors Association (NRCA).

PLEASE CHECK WITH LOCAL BUILDING CODES REGARDING LIMITATIONS OF SPECIFIC APPLICATIONS. LOCAL CODES MAY SUPERSEDE POLYGLASS REQUIREMENTS AND RECOMMENDATIONS.

END OF THIS ACCEPTANCE

10-20-09

CMB

MIAMI-DADE

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)

Polyfoam Products, Inc.
11715 Boudreaux Road
Tomball, TX 77375

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 the BCCO and accepted by the Building Code and Product Review Committee 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 BCCO (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. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO 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: Polypro® AH160

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 renews NOA No.01-0521.02 and consists of pages 1 through 7
The submitted documentation was reviewed by Jorge L. Acebo.

PRODUCT CONTROL ACCEPTED

10-30-03

CWB

ROOFING ASSEMBLY APPROVAL:

Category:	Roofing
Sub Category:	Roof tile adhesive
Materials:	Polyurethane

SCOPE:

This approves **Polypro® AH160** as manufactured by **Polyfoam Products, Inc.** as described in Section 2 of this Notice of Acceptance. For the locations where the design pressure requirements, as determined by applicable building code, does not exceed the design pressure values obtained by calculations in compliance with Roofing Application Standard RAS 127, for use with approved flat, low, and high profile roof tiles system using Polypro® AH 160. Where the attachment calculations are done as a moment based system for single patty placement, and as an uplift based system for double patty systems

PRODUCTS MANUFACTURED BY APPLICANT:

Product	Dimensions	Test Specifications	Product Description
Polypro® AH160	N/A	TAS 101	Two component polyurethane foam adhesive
Foampro® RTF1000	N/A		Dispensing Equipment
ProPack® 30 & 100	N/A		Dispensing Equipment

PRODUCTS MANUFACTURED BY OTHERS:

Any Miami-Dade County Product Control Accepted Roof Tile Assembly having a current NOA which list moment resistance values with the use of Polypro AH160 roof tile adhesive.

PHYSICAL PROPERTIES:

Property	Test	Results
Density	ASTM D 1622	1.6 lbs./ft.^{3}
Compressive Strength	ASTM D 1621	18 PSI Parallel to rise 12 PSI Perpendicular to rise
Tensile Strength	ASTM D 1623	28 PSI Parallel to rise
Water Absorption	ASTM D 2127	0.08 Lbs./Ft^2
Moisture Vapor Transmission	ASTM E 96	3.1 Perm / Inch
Dimensional Stability	ASTM D 2126	+0.07% Volume Change @ -40° F., 2 weeks +6.0% Volume Change @158°F., 100% Humidity, 2 weeks
Closed Cell Content	ASTM D 2856	86%

Note: The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

10-20-03

CMB

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Center for Applied Engineering	#94-060	TAS 101	04/08/94
	257818-1PA	TAS 101	12/16/96
	25-7438-3	SSTD 11-93	10/25/95
	25-7438-4		
	25-7438-7	SSTD 11-93	11/02/95
	25-7492	SSTD 11-93	12/12/95
Miles Laboratories Polymers Division	NB-589-631	ASTM D 1623	02/01/94
Ramtech Laboratories, Inc.	9637-92	ASTM E 108	04/30/93
Southwest Research Institute	01-6743-011	ASTM E 108	11/16/94
	01-6739-062b[1]	ASTM E 84	01/16/95
Trinity Engineering	7050.02.96-1	TAS 114	03/14/96
Celotex Corp. Testing Services	528454-2-1	TAS 101	10/23/98
	528454-9-1		
	528454-10-1		
	520109-1	TAS 101	12/28/98
	520109-2		
	520109-3		
	520109-6		
	520109-7		
	520191-1	TAS 101	03/02/99
	520109-2-1		

LIMITATIONS:

1. Fire classification is not part of this acceptance. Refer to the Prepared Roof Tile Assembly for fire rating.

2. Polypro® AH160 shall solely be used with flat, low, & high tile profiles.

3. Minimum underlayment shall be in compliance with the Roofing Application Standard RAS 120.

4. Roof Tile manufactures acquiring acceptance for the use of Polypro® AH160 roof tile adhesive with their tile assemblies shall test in accordance with TAS 101.

5. Roof Tile manufactures acquiring acceptance for the use of HANDI-STICK roof tile adhesive with their tile assemblies shall test in accordance with TAS 101 with section 10.4 as modified herein.

$$F' = \frac{\left(\frac{F}{2}\right) W}{MS}$$

CHB
10-20-08

INSTALLATION:

1. Polypro® AH160 may be used with any roof tile assembly having a current NOA that lists uplift resistance values with the use of Polypro® AH160.
2. Polypro® AH160 shall be applied in compliance with the Component Application section and the corresponding Placement Details noted herein. The roof tile assembly's adhesive attachment with the use of Polypro® AH160 shall provide sufficient attachment resistance, expressed as an uplift based system, to meet or exceed the uplift resistance determined in compliance with Miami-Dade County Roofing Application Standards RAS 127. The adhesive attachment data is noted in the roof tile assembly NOA
3. Polypro® AH160 roof tile adhesive and its components shall be installed in accordance with Roofing Application Standard RAS 120, and Polyfoam Products, Inc. Polypro® AH160 Operating Instruction and Maintenance Booklet.
4. Installation must be by a Factory Trained 'Qualified Applicator' approved and licensed by Polyfoam Products, Inc. Polyfoam Products Inc. shall supply a list of approved applicators to the authority having jurisdiction.
5. Calibration of the Foampro® dispensing equipment is required before application of any adhesive. The mix ratio between the "A" component and the "B" component shall be maintained between 1.0-1.15 (A): 1.0 (B). The dispense timer shall be set to deliver 0.0175 to 0.15 pounds per tile as determined at calibration. No other settings shall be approved.
6. Polypro® AH160 shall be applied with Foampro RTF1000 or ProPack® 30 & 100 dispensing equipment only.
7. Polypro® AH160 shall not be exposed permanently to sunlight.
8. Tiles must be adhered in freshly applied adhesive. Tile must be set within 2 to 3 minutes after Polypro® AH160 has been dispensed.
9. Polypro® AH160 placement and minimum patty weight shall be in accordance with the 'Placement Details' herein. Each generic tile profile requires the specific placement noted herein.

Table 1: Adhesive Placement For Each Generic Tile Profile

Tile Profile	Placement Detail	Single Paddy Weight Min. (grams)	Two Paddy Weight per paddy Min. (grams)
Flat, Low, High Profiles	#1	35	N/A
High Profile (2 Piece Barrel)	#1	17/side on cap and 34/pan	N/A
Flat, Low, High Profiles	#2	24	N/A
Flat, Low, High Profiles	#3		8

LABELING:

All Polypro® AH160 containers shall comply with the Standard Conditions listed herein.

BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

CMB

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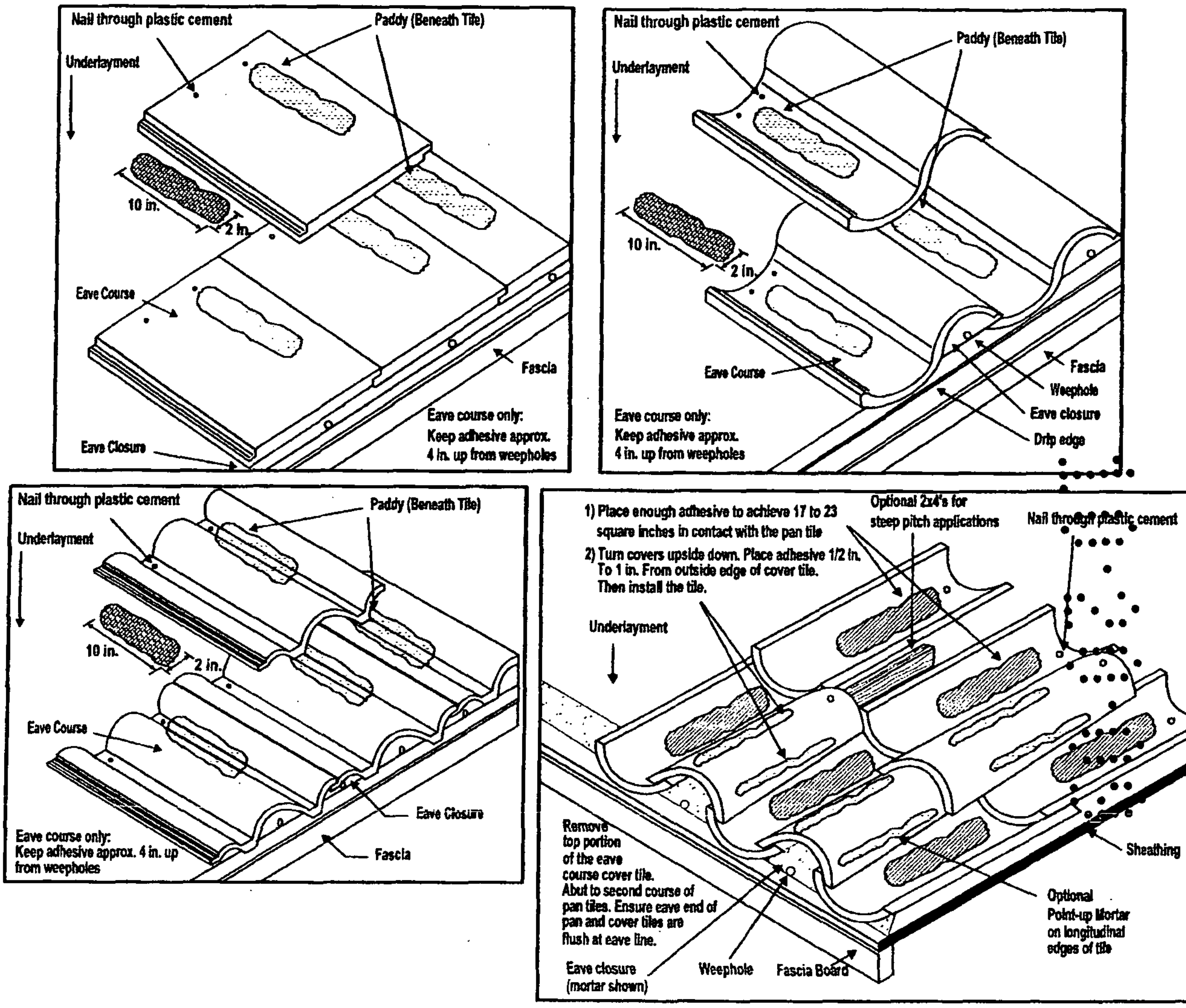
ADHESIVE PLACEMENT DETAIL 1
SINGLE PATTY



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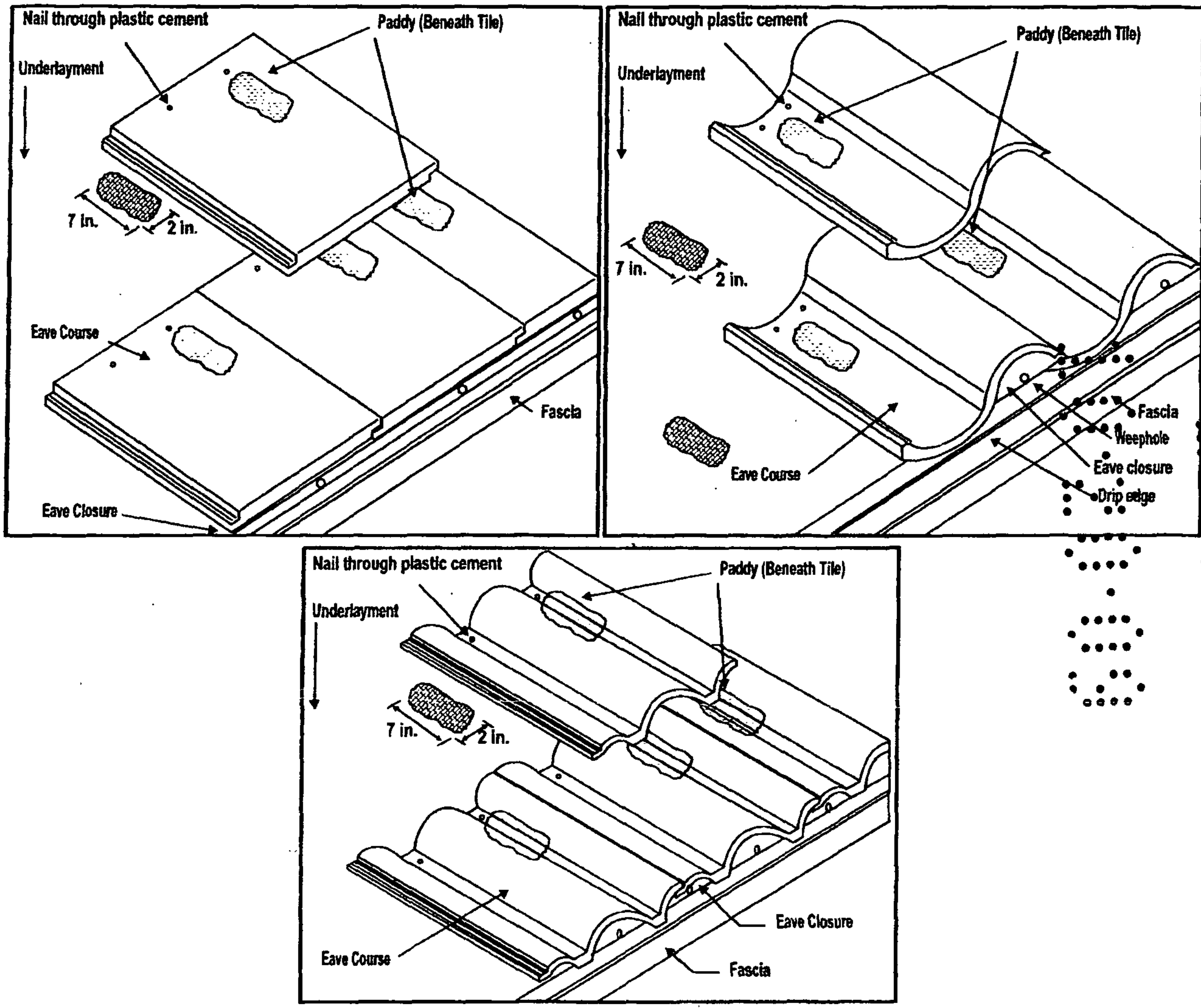
Adhesive Placement Detail 2
Single Patty



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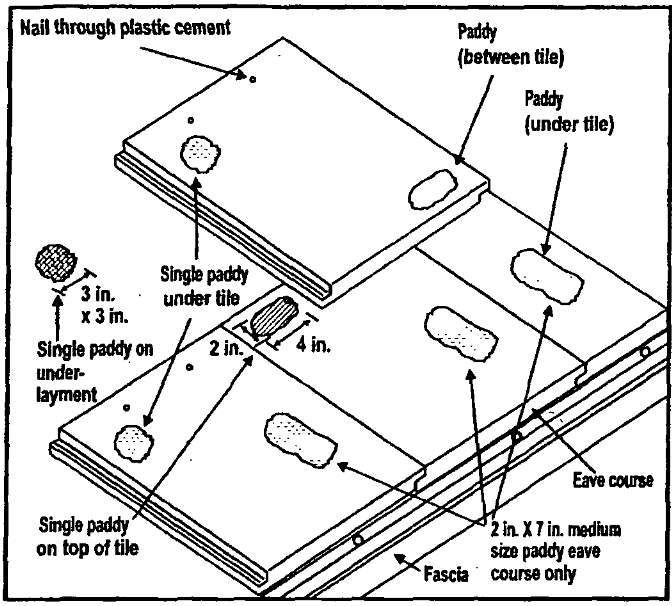
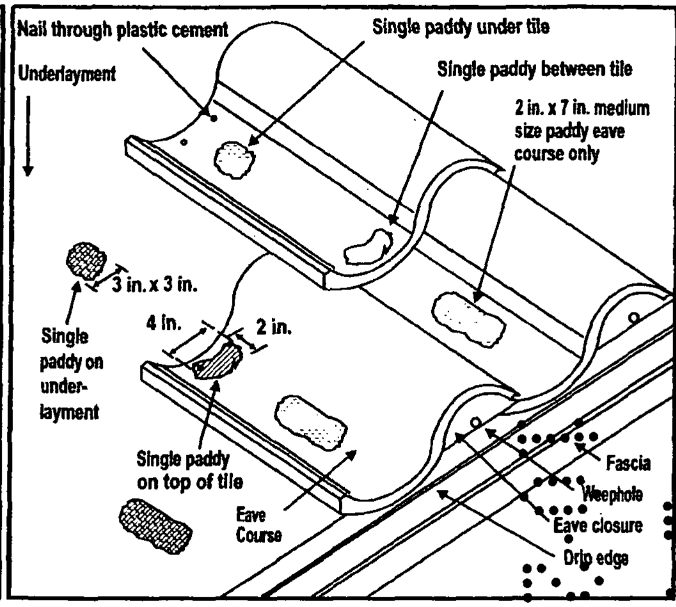
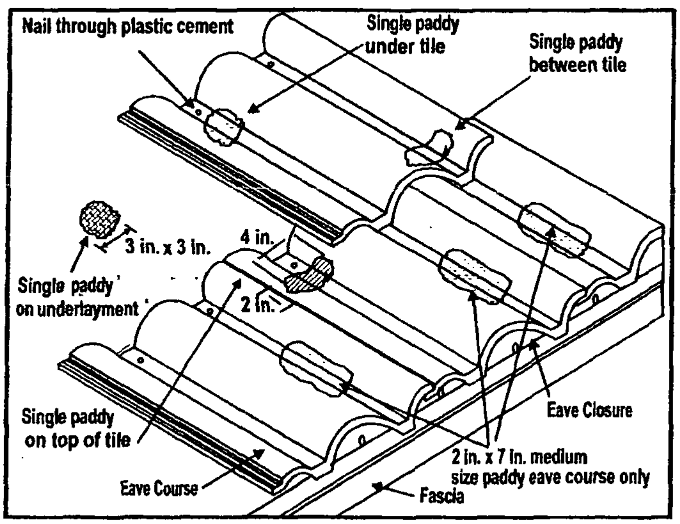
10-20-09

ADHESIVE PLACEMENT DETAIL 3
DOUBLE PATTY







END OF THIS ACCEPTANCE

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

BUILDING:	
ZONING:	L 10/21/09
DESIGN:	
CONCURRENCY:	
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
ENGINEERING:	
PUBLIC WORKS:	B. Dwall 10/21/09
STRUCTURAL:	Perez 10/21/09
ELEVATOR:	

MIAMIBEACH

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

OWNER/BUILDER AFFIDAVIT

Disclosure Statement 489.103 (7) State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contactor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improve it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have license required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

For your information the Owner/Builder may become liable and responsible for the employees he hires to assist in the construction project. This responsibility may include the following where required by Law:

A) Worker's compensation (for workers injured on the job)
B) Social Security Tax (must be deducted from the employees wages and matched with the owner's funds)
C) Unemployment Compensation (may or may not be required)
D) Liability Coverage
E) Federal Withholding Tax

I acknowledge that as an Owner/Builder, I Heriberto Sánchez am obligated to actually, physically, build the structure or do the work which I have permitted.

I understand that if I am not physically doing the work or physically supervising free labor from friends or relatives, that I must hire licensed contractors, i.e. electrician, plumber, mechanical (hearing & air conditioning), etc. I further understand that the violation of not physically doing the work, and the use of unlicensed contractors at the construction site, will cause the project to be shut down by the inspection staff of the Miami Beach Building Department. Additionally, state statutes allows for additional penalties. I also understand that if this violation does occur, that in order for the job to proceed, I will have a licensed contractor come in and obtain a new permit as taking the job over. I understand that if I hire subcontractors under a contract price, that they must be licensed to work in Miami-Dade County, i.e. masonry, drywall, carpentry. Contractors licensed by the Miami-Dade County Contractor Licensing Section or the State of Florida are required to have worker's compensation and liability coverage.

I will assume full responsibility as an Owner/Builder Contractor and will personally supervise of do all work allowed by law on the permitted structure.

Property owner address 10 Century Lane, Miami Beach, FL 33139

Permit address (explain difference) __________

Telephone Number __________

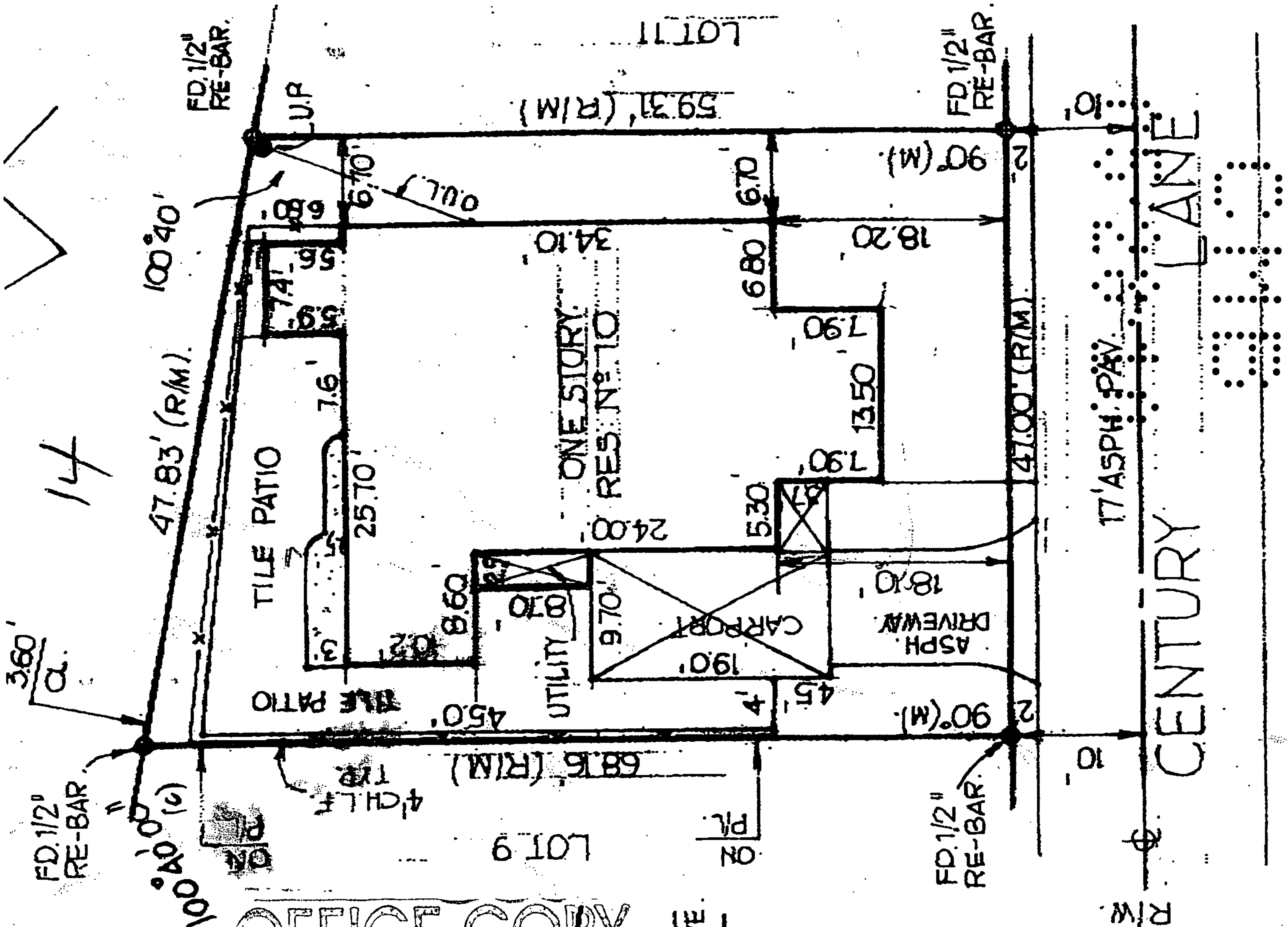
Sworn to and subscribed before me this 28 day of May 2010, by: Heriberto Sanchez

( ) Personally Known (X) Produced Identification - Type of Identification FDL#S522.320.63-047.0

Nisca Cesar
Signature of Notary Public

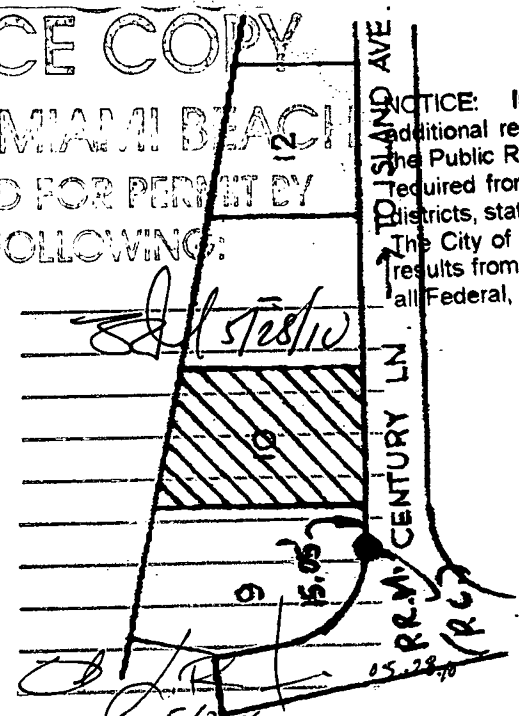
Nisca Cesar
Expires
04/14/2014
(Seal)
NOTARY PUBLIC
Commission #
DD982147
STATE OF FLORIDA

Signature of Owner (Seal)



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

BUILDING:
ZONING: 5/28/10
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS: 05.28.10
STRUCTURAL: 5/28/10
ELEVATOR:



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 government entities such as water management's 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.

ADDRESS:
10 CENTURY LANE
MIAMI BEACH, FL 33139
Encroachments Noted: NONE
LOCATION SKETCH
SCALE: N.T.S.

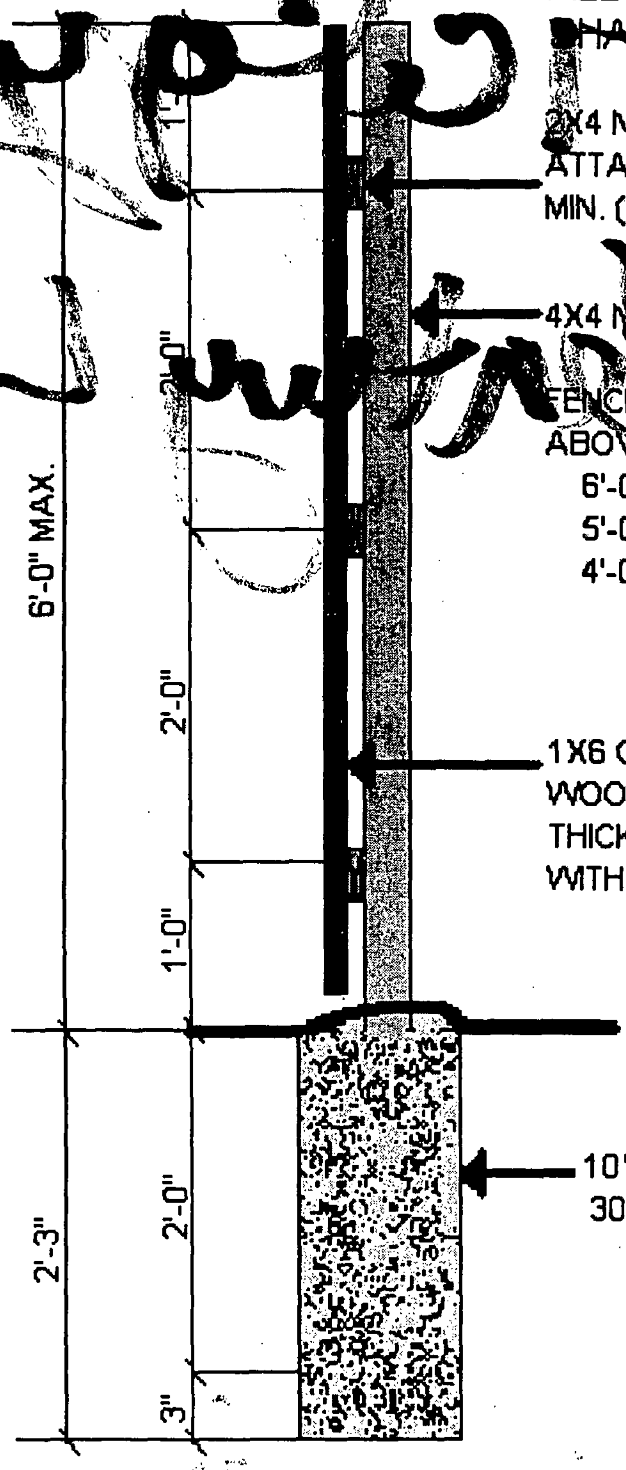
B1003267

1/28/04

Florida Building Code,
Section [illegible]

Wood Fence Design Detail

N. T. S.



ALL NAILS AND CONNECTORS SHALL BE GALVANIZED

2X4 No. 2 P.T. WOOD RAILS (3) MIN. ATTACHED TO WOOD POST WITH MIN. (4) 10d NAILS

4X4 No. 2 P.T. WOOD POST

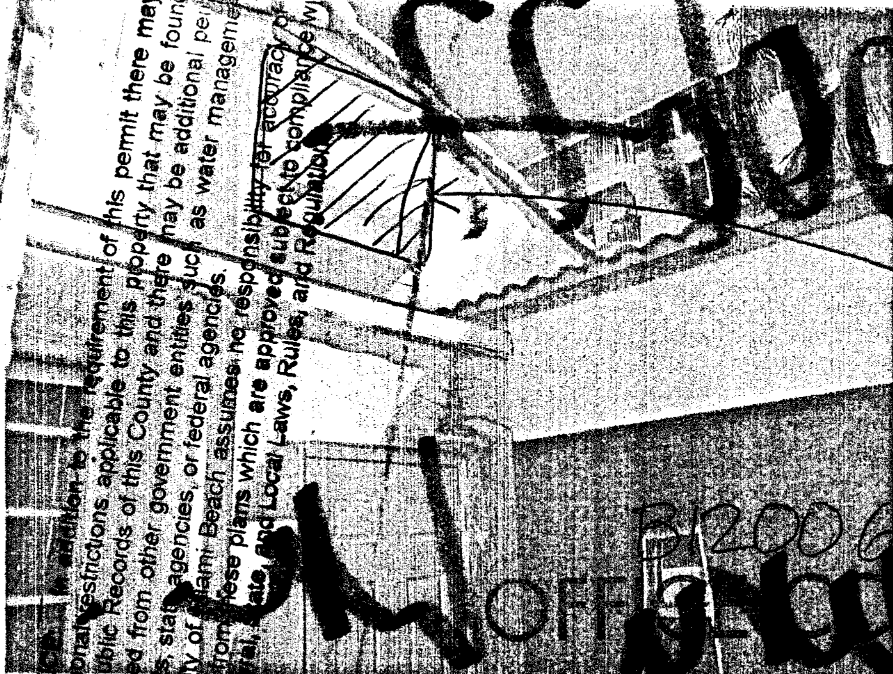
FENCE HEIGHT ABOVE GRADE	POST SPACING
6'-0" (MAX.)	4'-0" o/c
5'-0"	5'-0" o/c
4'-0"	6'-0" o/c

1X6 OR 1X8 WOOD SLATS WOOD PICKETS, 5/8" MIN. DRESSED THICKNESS. ATTACH EACH PICKET TO RAIL WITH (2) 18 GA. STAPLES 1-3/4" LONG.

10" DIA. CONCRETE FOOTING 3000 PSI MIN.

B1200677

ADDRESS 10 CENTURY LA.



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 government entities such as water management districts, state agencies, or federal agencies. The City of Miami Beach assumes no responsibility for accuracy of results from these plans which are approved subject to compliance with all Federal, State, and Local Laws, Rules, and Regulations.

111 feet

REMOVE 43" x 42½" COVERING & BLOCK-UP WITH 8" CMU. APPLY STUCCO FINISH TO MATCH EXISTING & TO MATCH EXISTING IN THE INT TOO

B1200677

OFFICE COPY

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

CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:	B 11/14/11
ZONING:	B 11/14/11
DRB/HPB:	
CONCURRENCY:	
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
ENGINEERING:	
PUBLIC WORKS:	11.14.11
STRUCTURAL:	AV 11/14/11
ELEVATOR:	

PUBLIC WORKS
PLAN REVIEW NOTICE

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 posting of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)

Approved/Reviewed By: ______ **Date:** 11.14.11

3120067-7

10 Century Ln.

OFFICE Copy

THE-HOME DEPOT AT HOME SERVICE
SHUTTER INFORMATION SHEET

JOB# 3700630

Name: Heriberto Sanchez

Build Height 14'

Type Of Anchor Specified 1/4 TAPCON

Type Of Construction Poured Concrete

No. Open.	Shutter Type P/ A/ W	Shutter Product Approval No	Shutter Length or Spam	Vertical	Opening Size		Zone	Edge Distance	Opening Design load		Glass Distance Separation	Shutter Mounting Detail	Anchor Spacing	Shutter Mounting Detail	Anchor Spacing
				Horizontal	Width IN	Height IN			(+)	(-)			TOP TRACK		BOTTOM TRACK
1	Panel	06-0117.05	88	Vertical	40	82	5	3"	61.0	76.8	3 5/8	Detail # 1	9	Detail # 4	5
2	Panel	06-0117.05	34	Vertical	32	82	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 4	7
3	Panel	06-0117.05	38	Vertical	38	53	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 4	7
4	Panel	06-0117.05	44	Vertical	37	27	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 4	7
5	Panel	06-0117.05	91	Vertical	73	80	5	3"	61.0	76.8	3 5/8	Detail # 1	5	Detail # 4	4
6	Panel	06-0117.05	58	Vertical	39	53	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 4	7
7	Panel	06-0117.05	46	Vertical	22	40	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 4	7
8	Panel	06-0117.05	58	Vertical	35	53	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 4	7
9	Panel	06-0117.05	58	Vertical	38	53	5	3"	61.0	76.8	2 5/8	Detail # 1	13	Detail # 4	7
10	Panel	06-0117.05	72	Vertical	72	66	5	3"	61.0	76.8	3 5/8	Detail # 1	9	Detail # 4	5
11	Panel	06-0117.05	81	Vertical	132	75	5	3"	61.0	76.8	3 5/8	Detail # 1	13	Detail # 4	7
12	Panel	06-0117.05	73	Vertical	35	68	5	3"	61.0	76.8	3 5/8	Detail # 1	13	Detail # 4	7
13	**Panel**	**06-0117.05**	**58**	**Vertical**	**38**	**53**	**5**	**3"**	**61.0**	**76.1**	**3 5/8**	**Detail # 1**	**13**	**Detail # 4**	**7**

Permit# B0803040 Adding opening # 13 to existing Permit

NOTES:

OFFICE COPY

CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:

ZONING: E 11/21/08

DRB/HPB:

CONCURRENCY:

PLUMBING:

ELECTRICAL:

MECHANICAL:

FIRE PREVENTION:

ENGINEERING:

PUBLIC WORKS:

STRUCTURAL: JQQ 11/21/08

ELEVATOR:

11-51-08

CWB

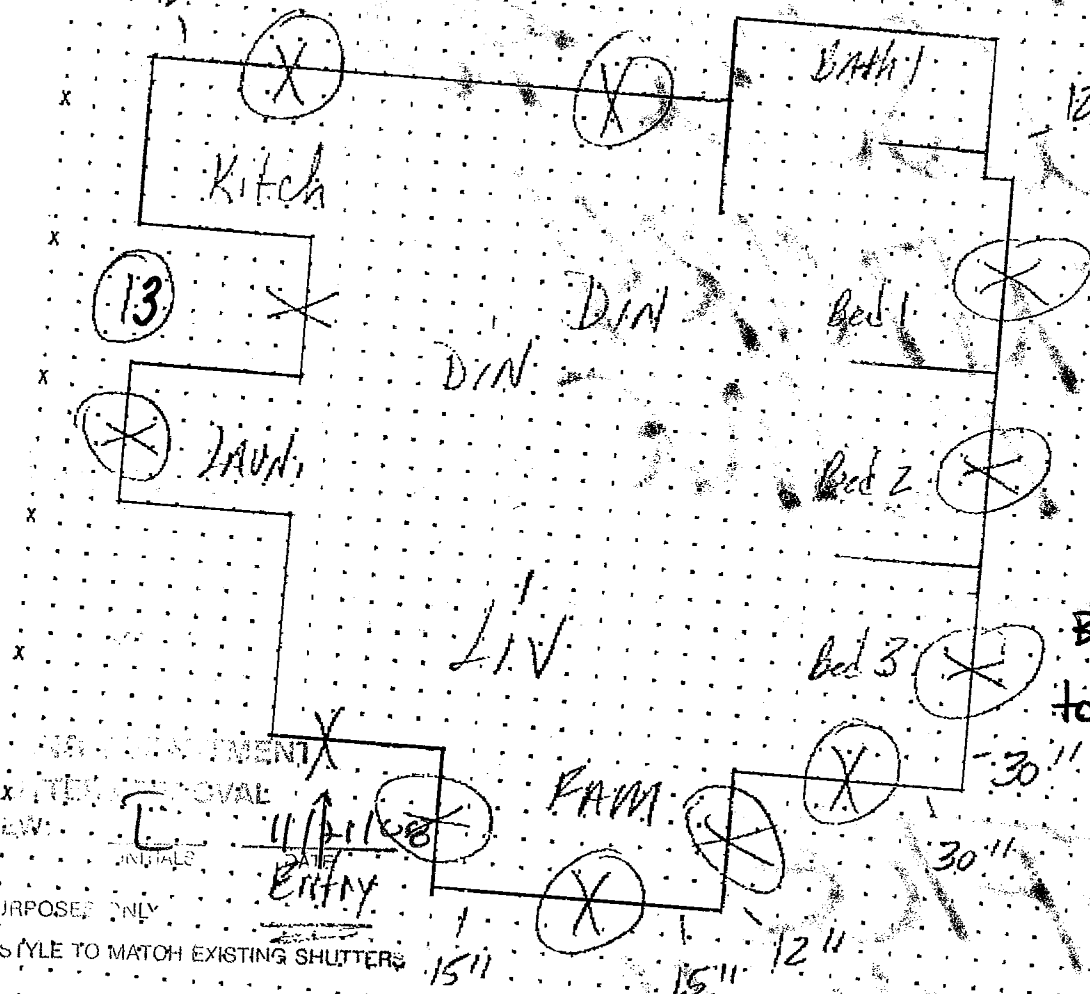
WINDOW DIAGRAM SHEET

CUSTOMER NAME Heriberto Sanchez

JOB # 414060

ITEMS

13 AP 38/5



Note: Revising permit By ADDING opening # 13 to Existing permit.

TED APPROVAL

L 11/21/08

INITIALS DATE

PURPOSES ONLY

& STYLE TO MATCH EXISTING SHUTTERS

OTHER

ZONING:

CONDITIONS.

11/21/08

INITIALS DATE

X FLUSH MOUNTED TO WALL - NO BALCONY ENCLOSURE

☐ OTHER.

Mean Roof Height

6-02-05 SFC-R

Mean Roof Height 14 ft.

Roof Slope 4/12

Building Width 42 Ft

Building Length 46 Ft

Permit Number	Main Address
BRR1800197	10 CENTURY LN
BRR1902151	10 CENTURY LN

Permit Type	Permit Status	Work Class
Building – Records Requests	Finaled	Records Requests
Building – Records Requests	Finaled	Records Requests

Project Name	Apply Date	Issue Date
	06/20/2018	
	05/24/2019	

Expire Date	Finalize Date	Inspection Date
	06/22/2018	
	06/04/2019	

Square Feet	Valuation
0.00	0.00
0.00	0.00
0.00	0.00

Description
Microfilm Request CD

Street Number	Street Name
10	CENTURY LN
10	CENTURY LN

Permit History - PermitsPlus

Total Permits: 14

Permit No	COMP TYPE	SUB TYPE	DESCRIPTION
BE951239	BELEC	OTH	CENTRAL A/C UNIT
BE102910	BELEC	SRVCS	SERVICE REPLACEMENT 150AMPS
BM950960	BMECH	ALT	INST 2.5T SYS STHT DTWK
BMS0301156	BMISC		PERMIT RESEARCH
BMS0803060	BMISC	REVISE	B0803040 - REVISION PERMIT DELETING
BMS0900590	BMISC	REVISE	RVSN TO ADDING OPNG #13(PANEL) TO
BREV110130	BREV	FENCE	B1003267/Extension of fence along property
B0803040	BSBUILD	SHUTER	Installtion of 12 shutter panels
B0902546	BSBUILD	SHUTER-R	INTALL 2 ACCORDION HURRICANE
B1200677	BSBUILD	RPR	removal of vent sealing with concrete block
B1003267	BSBUILD	FENCE	6' treated wood fence on sides of the house
B1000255	BSBUILD	ROOFING	Re-Roof/ 1,100 Sq.Ft
B1200671	BUILD	ALTRMD-C	removal of vent sealing with concrete block
BV10000386	BVIO	CITATION	CITATION ISSUED.

STATUS	APPLIED DATE	APPROVED DATE	EXPIRED/FINALED DATE	VAL TOTAL
FINAL	7/1/1995	7/5/1995	6/23/1996	$250.00
FINAL	9/20/2010	9/20/2010	3/30/2011	$1,200.00
FINAL	7/3/1995	7/5/1995	5/20/1996	$2,475.00
FINAL	1/8/2003	1/1/0001	1/1/0001	$25.00
FINAL	9/17/2008	9/17/2008	3/16/2009	$0.00
FINAL	11/21/2008	11/21/2008	5/20/2009	$0.00
FINAL	11/15/2010	11/18/2010	1/1/0001	$0.00
FINAL	5/1/2008	5/15/2008	6/1/2009	$5,726.00
FINAL	4/13/2009	4/13/2009	11/8/2009	$1,870.00
FINAL	11/14/2011	11/14/2011	5/12/2012	$300.00
FINAL	5/28/2010	5/28/2010	5/23/2011	$120.00
FINAL	10/20/2009	10/21/2009	9/21/2010	$4,500.00
VOID	11/14/2011	1/1/0001	1/1/0001	$1,406,191.15
CLOSED	2/11/2010	2/11/2010	3/17/2010	$0.00

PARCEL NO	STREET NO	DIR	STREET NAME
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA
32330020100	10		CENTURY LA