



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

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

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

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Willard Shutter Company, Inc.
4420 NW 35th Court
Miami, FL 33142

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 including the High Velocity Hurricane Zone.

DESCRIPTION: The Islander Bahama Louver

APPROVAL DOCUMENT: Drawing No. 05-267, titled "The Islander Bahama Louver ", sheets 1 through 4 of 4, prepared by EngCo, Inc., dated 08/17/05, with no revisions, signed and sealed by P. D. Figueiredo, P.E., 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: None

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 or MDCPCA", 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 # 02-0621.08 and consists of this page 1, evidence page as well as approval documents mentioned above.

The submitted documentation was reviewed by **Candido F. Font, P.E.**

Candido F. Font
 02/23/06



NOA No 05-0822.07
Expiration Date: March 27, 2008
Approval Date: February 23, 2006
Page 1

Willard Shutter Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawings prepared by EngCo Inc. titled "The Islander Bahama Louver", Drawing No. 05-267, Sheets 1 to 4 of 4, dated 08/17/05 with no revisions signed and sealed by P. D. Figueiredo., PE

B. TEST

1. Test report on Uniform Static Air Pressure Test per TAS 202 of "Willard: Lowered Bahamas Architectural Fixture: FBC" prepared by Construction Testing Corporation, Report No. 02-049, dated 12/21/02, signed and sealed by Y.G. Kuri, PE.
2. Test report on Uniform Static Air Pressure Test per TAS 202 of "Bahamas Shades" prepared by Construction Testing Corporation, Report No. 02-004, dated 03/12/02 signed and sealed by C. G. Tyson, P.E.

C. CALCULATIONS

1. Product Evaluation and Anchor Verification of Sunshades (Louvers) prepared by EngCo Inc, on 05/24/02, signed and sealed by P. D. Figueiredo, PE.

D. QUALITY ASSURANCE:

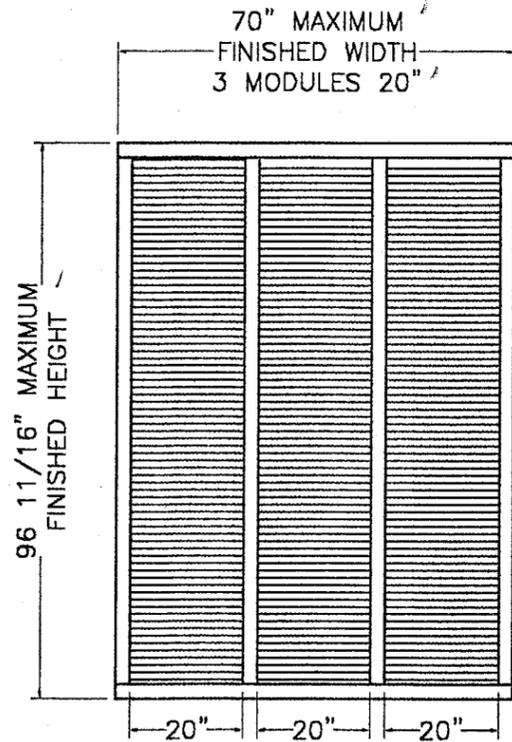
1. Building Code Compliance Office.

E. STATEMENTS

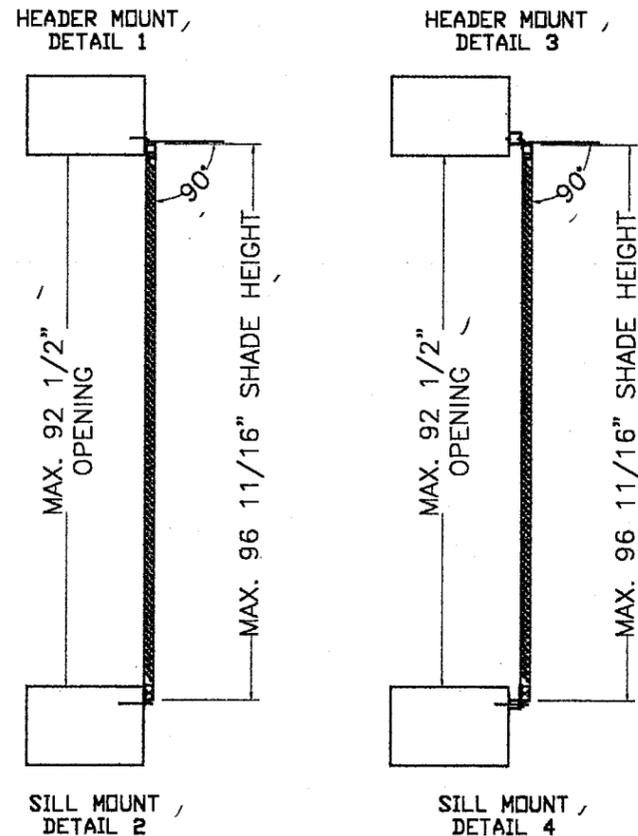
1. Letter of Code Compliance and Non Financial Interest issued by EngCo Inc on 01/06/03, signed and sealed by P. D. Figueiredo, PE.
2. Letter of Code Compliance and Non financial Interest issued by William Shutter Company Inc, on 01/07/03 signed and sealed by W. E. Clark.
3. Letter of Code Compliance issued by EngCo Inc, on 08/17/05, signed and sealed by P. D. Figueiredo PE.


Candido F. Font, P. E.
Senior Product Control Examiner
NOA No 05-0822.07
Expiration Date: March 27, 2008
Approval Date: February 23, 2006

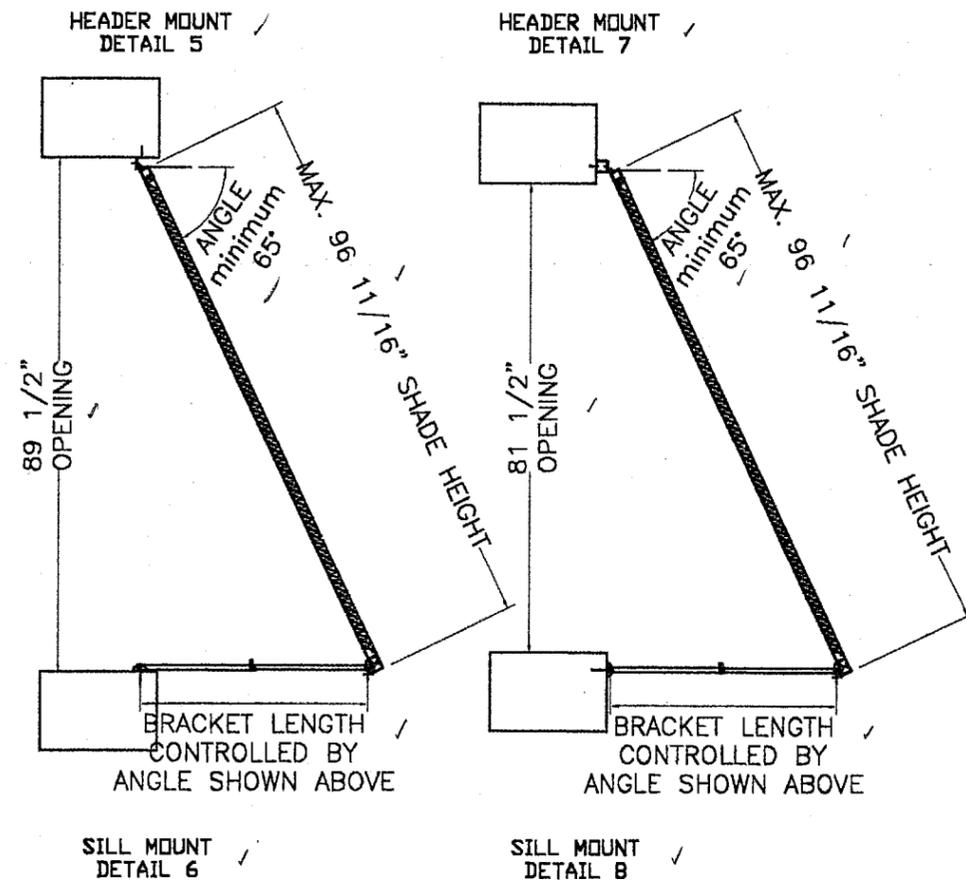
SHADE ELEVATION



SIDE SECTION W/OUT BRACKETS
ALLOWABLE DESIGNED PRESSURES



SIDE SECTION W/ BRACKETS
ALLOWABLE DESIGNED PRESSURES



Manufacturer:
Willard Shutter Company

4420 NW 35TH COURT
MIAMI - FLORIDA
Tel.: (305) 633-0162

Product:
The Islander Bahama Louver

Engineering:
EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. 104
Plantation, Fl. 33313
Tel.: (954) 585-0304

AUG 17 2005

Engineer Seal
Pedro De Figueiredo
PE 52609

Date: 08/17/05
Scale: NA
Design by: PPMF

PRODUCT CONTROL DIVISION:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-082201
Expiration Date 03/27/08
By: [Signature]
Miami-Dade Product Control
Division

Drawing Number
05-267

Sheet
1 of 4

GENERAL NOTES:

1- DEFINITION: THIS PRODUCT IS A BAHAMA LOUVER, TESTED & DESIGNED TO BE USED AS DECORATIVE CLADDING AND PROTECTIVE SUN SCREEN. THIS PRODUCT USE IS LIMITED TO THE ALLOWABLE DESIGNED PRESSURE STATED IN THIS APPROVAL AND MUST NOT BE USED AS AN APPROVED HURRICANE PROTECTION DEVICE.

2- CODE: THIS PRODUCT IS DESIGNED UNDER THE FLORIDA BUILDING CODE 2004 EDITION.

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

BAHAMA LOUVER - WILLARD SHUTTERS
MIAMI - FLORIDA
DADE COUNTY PRODUCT CONTROL APPROVED

4- LOADS: DESIGN PRESSURE CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH ASCE 7-98.

5- MATERIAL: ALL ALUMINUM STRUCTURES AND COMPONENTS SHALL BE DESIGN AS PER CHAPTER 20 OF THE FBC. ALUMINUM LOUVER EXTRUDED SHAPES SHALL BE 6063-T5 OR AS NOTED.

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

ALLOWABLE PRESSURES:

LOUVER HEIGHT	W/BRACKET		W/OUT BRACKET	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
96 11/16"	+40.0	-35.0	+40.0	-40.0
72 1/2"	+52.0	-52.0	+55.5	-55.5
48 3/8"	+76.3	-76.3	+83.2	-90.1

Notes: 1- Use of linear interpolation between above values is acceptable.

2- Louvers are to be installed in location where room behind the louver is designed to drain water penetrating into the room and the room will house water resistant/water proof equipment components or supplies.

Manufacturer:
**Willard
Shutter
Company**

4420 NW 35TH COURT
MIAMI - FLORIDA
Tel.: (305) 633-0162

Product:
**The Islander
Bahama
Louver**

Engineering:
EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. 104
Plantation, Fl. 33313
Tel.: (954) 585-0304



AUG 17 2005
Engineer Seal
Pedro De Figueiredo
PE 52609

Date: 08/17/05
Scale: NA
Design by: PPMF

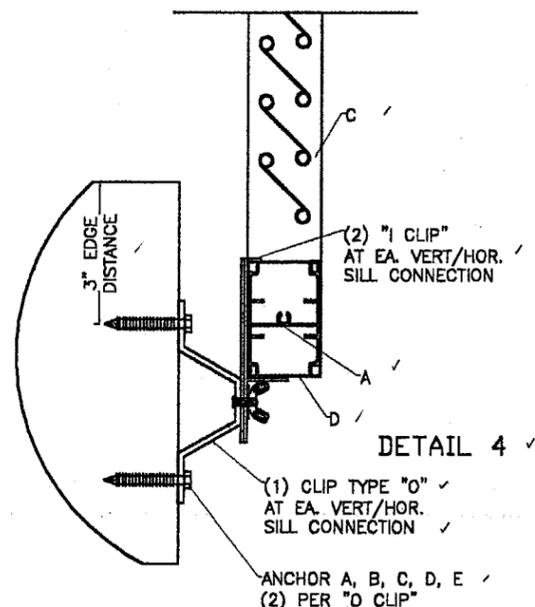
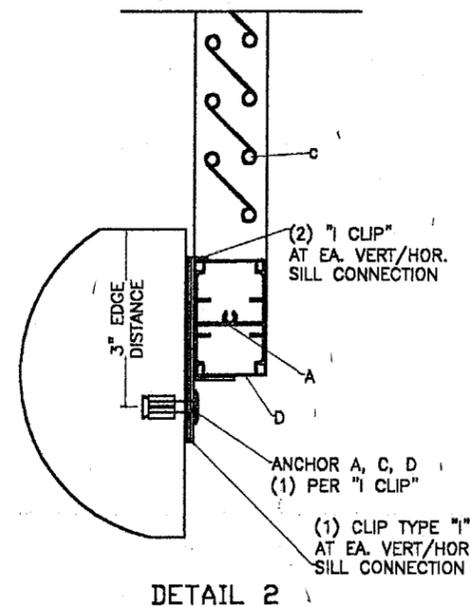
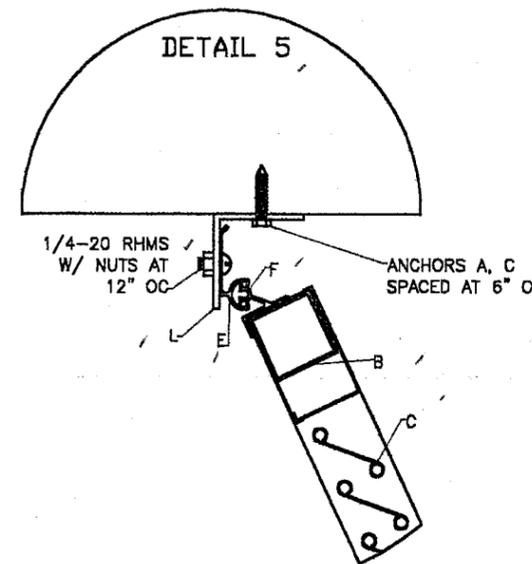
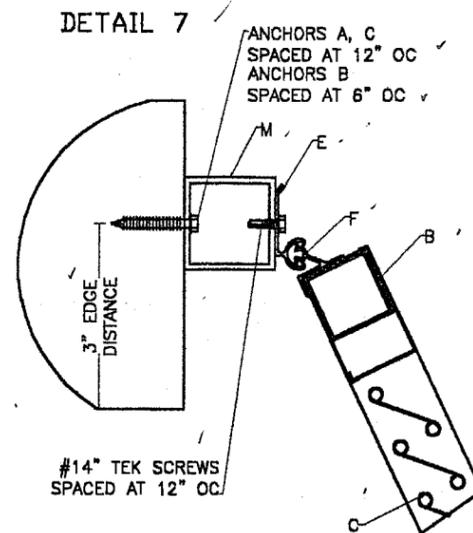
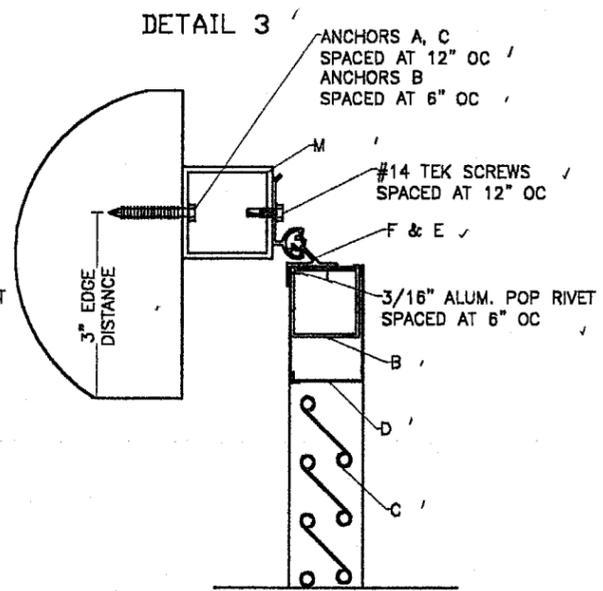
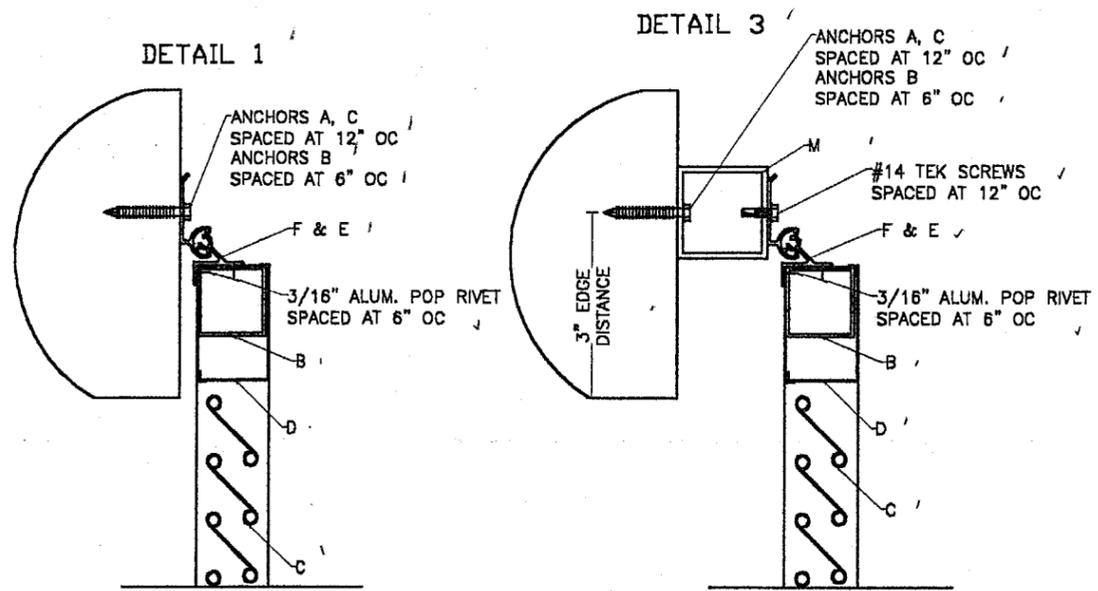
PRODUCT CONTROL DIVISION:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-0822-07
Expiration Date 03/27/08
By 
Miami Door Product Control
Division

Drawing Number
05-267

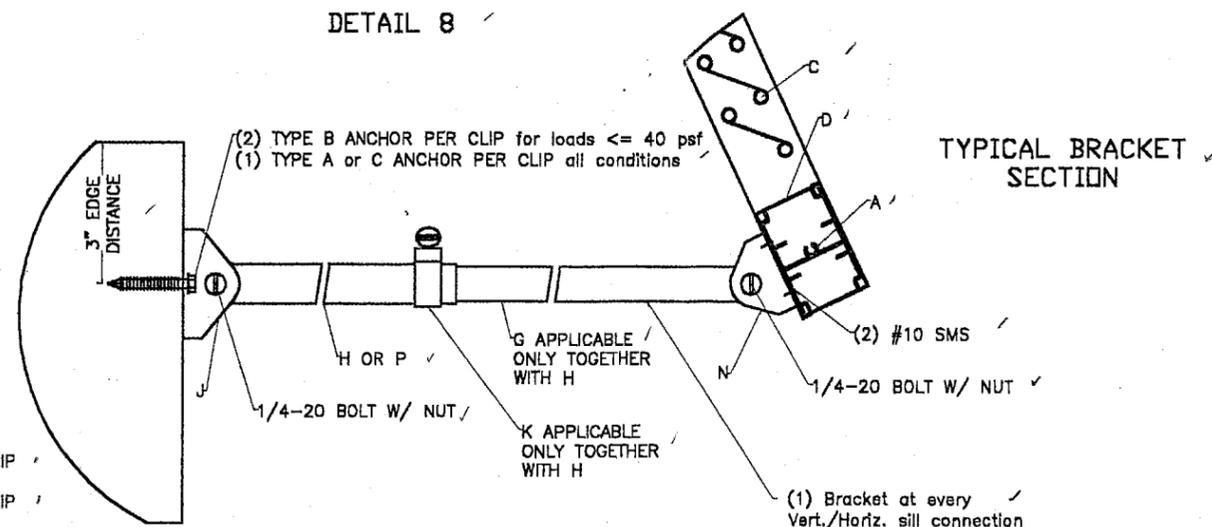
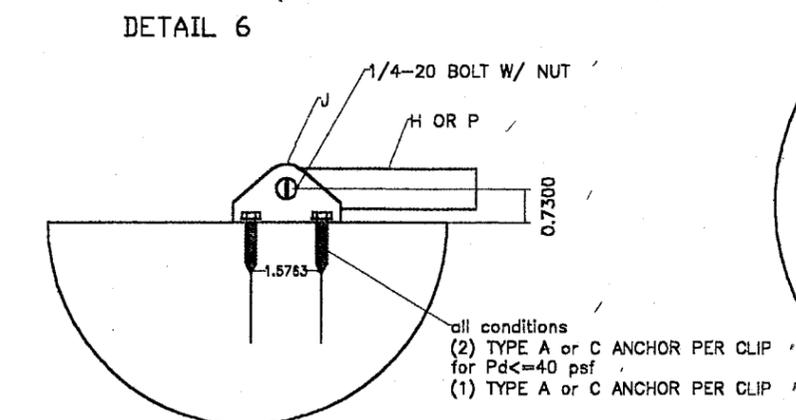
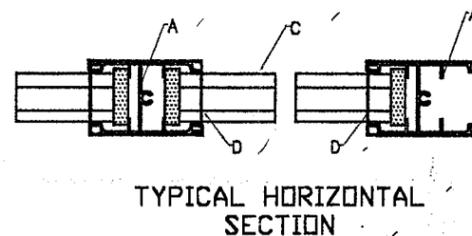
Sheet
2 of 4

DETAILS

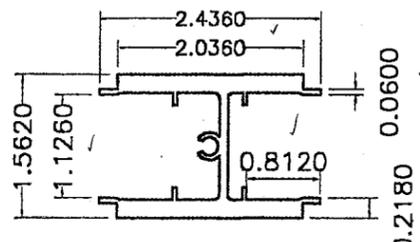


ANCHOR SCHEDULE

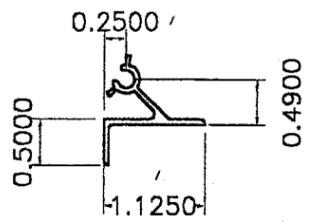
TYPE	DESCRIPTION	EMBED.	SUBSTRACT	MANUFACTURER
A	1/4" TAPCON	1 3/4"	Concrete 3320 psi	ELCO
B	1/4" TAPCON	1 1/4"	Hollow Block	ELCO
C	#14 SS PHSMS	1 1/2"	Wood (SG= .55)	GENERIC
D	1/4-20 RAWL CALK-IN.	7/8"	Concrete 3000 psi	RAWL
E	1/4-20 RAWL CALK-IN.	7/8"	Hollow Block	RAWL



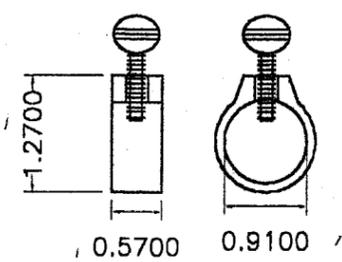
TYPICAL BRACKET SECTION



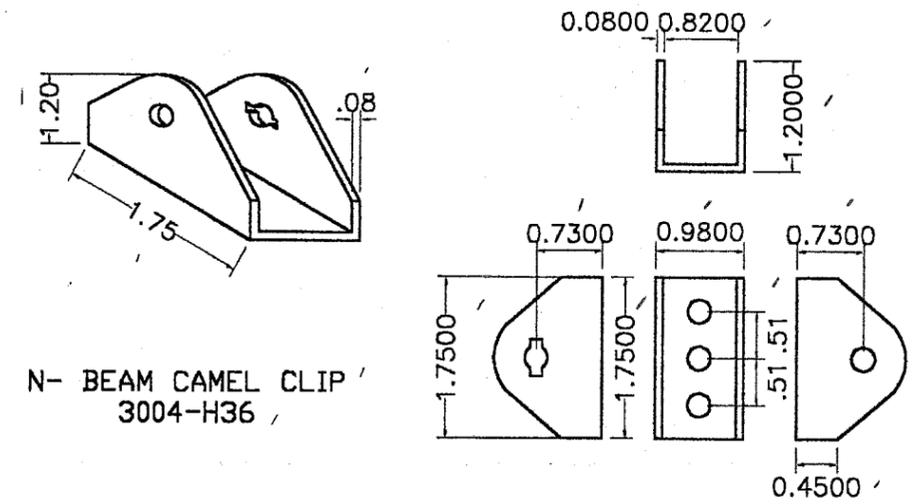
A- STIFFENER / HANGER
6063-T6



F- MALE HINGE
6063-T5



K- LOCK RING W/ 1/4-20
THUMB BOLT
CAST ALUMINUM



N- BEAM CAMEL CLIP
3004-H36

Manufacturer:
**Willard
Shutter
Company**
4420 NW 35TH COURT
MIAMI - FLORIDA
Tel.: (305) 633-0162

Product:
**The Islander
Bahama Louver**

Engineering:
EngCo Inc.
CA 8116
6971 W. Sunrise Blvd. 104
Plantation, Fl. 33313
Tel.: (954) 585-0304

AUG 17 2005

Engineer Seal
Pedro De Figueiredo
PE 52609

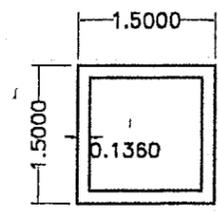
Date: 08/17/05
Scale: NA
Design by: PPMF

PRODUCT CONTROL DIVISION:

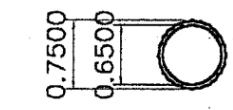
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-0822.07
Expiration Date 03/27/08
By: [Signature]
Miami Dade Product Control
Division

Drawing Number
05-267

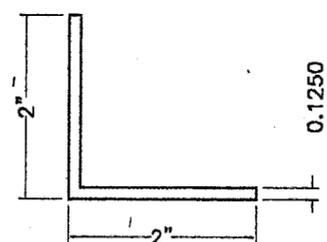
Sheet
3 of 4



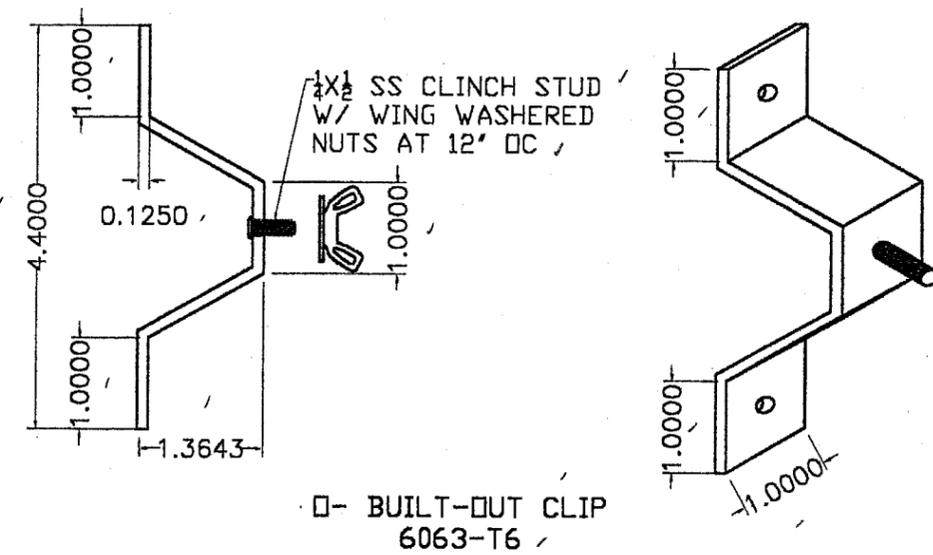
B- STIFFENER
6063-T6



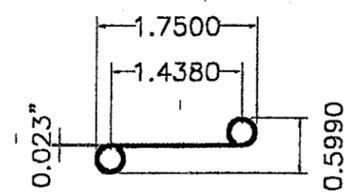
G- 3/4" SERRATED TUBE
6063-T6



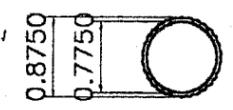
L- 1/8-2x2
ALUMINUM ANGLE
6063-T6



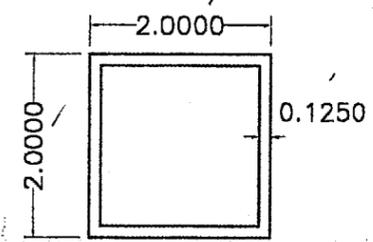
Q- BUILT-OUT CLIP
6063-T6



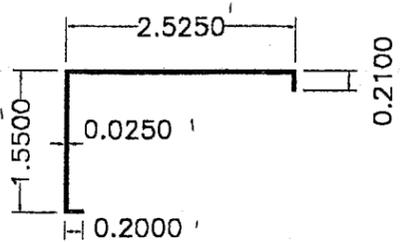
C- SLAT
3004-H36



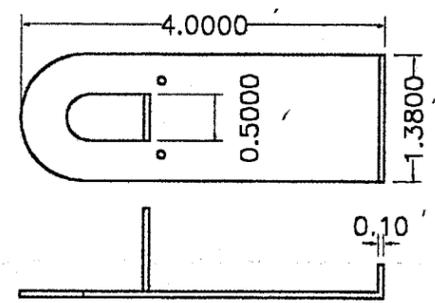
H- 7/8" SERRATED TUBE
6063-T6



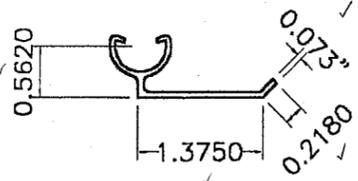
M- 1/8-2x2
ALUMINUM TUBE
6063-T6



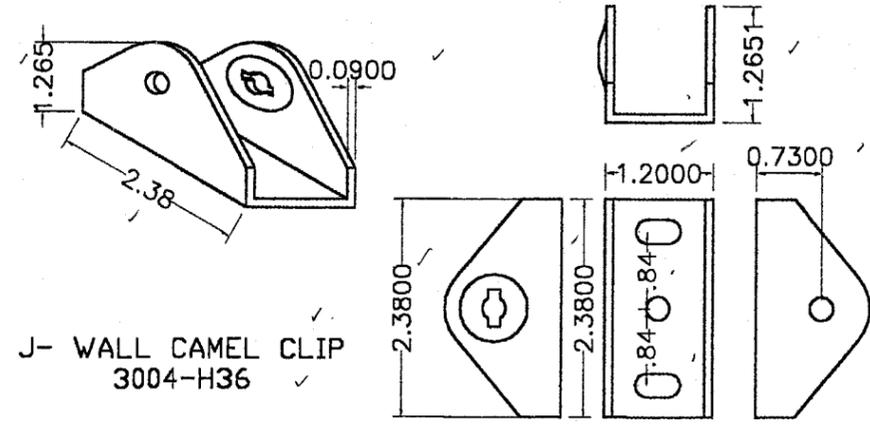
D- ALUMINUM CLAD
3004-H36



I- CLIP
3004-H36
*NOTE: USED TWO CLIPS NESTED
AT EA CONNECTION

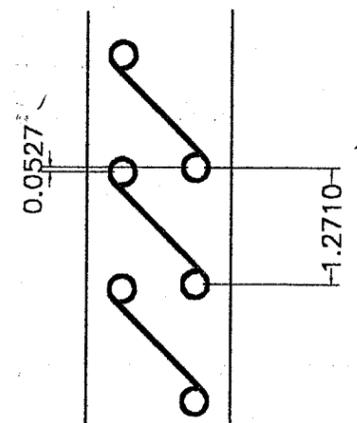
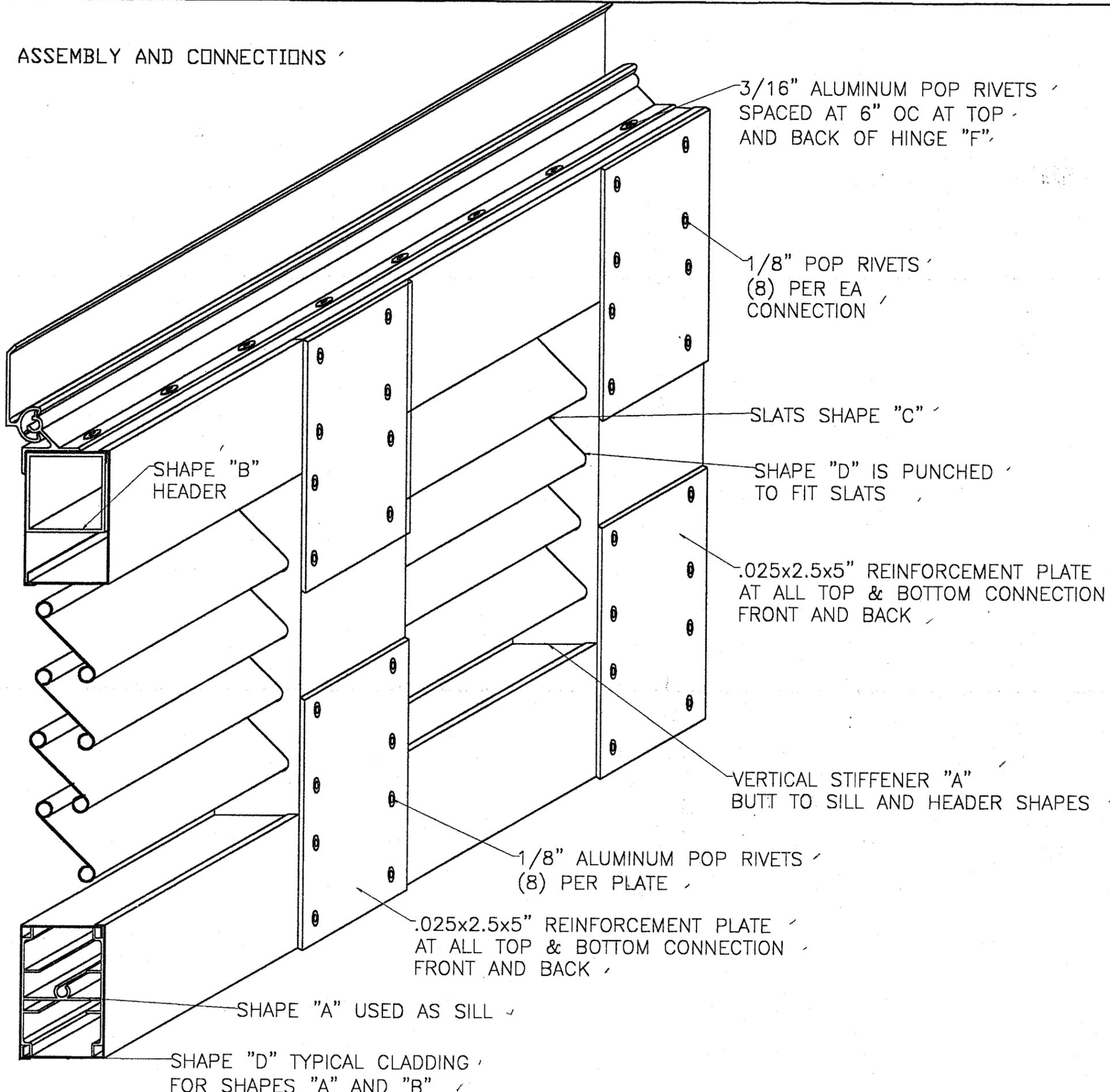


E- FEMALE HINGE
6063-T5



J- WALL CAMEL CLIP
3004-H36

ASSEMBLY AND CONNECTIONS



Manufacturer:
**Willard
 Shutter
 Company**
 4420 NW 35TH COURT
 MIAMI - FLORIDA
 Tel.: (305) 633-0162

Product:
**The Islander
 Bahama Louver**

Engineering:
EngCo Inc.
 CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, Fl. 33313
 Tel.: (954) 585-0304


AUG 17 2005
 Engineer Seal
 Pedro Da Figueiredo
 PE 52609

Date: 08/17/05
 Scale: NA
 Design by: PPMF

PRODUCT CONTROL DIVISION:

 PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 05-082207
 Expiration Date 03/27/08
 By 
 Willard Shutter Product Control
 Division

Drawing Number
05-267

Sheet
4 of 4