



**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)**

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**Folding Shutter Corporation  
7089 Hemstreet Place  
West Palm Beach, FL 33413**

**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: Extruded Aluminum Hinged Bi-Fold Colonial Shutter**

**APPROVAL DOCUMENT:** Drawing No.1017, titled "Impact Colonial Shutter (Dade)", sheets 1 through 7 of 7, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated November 22, 2000, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and 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 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.

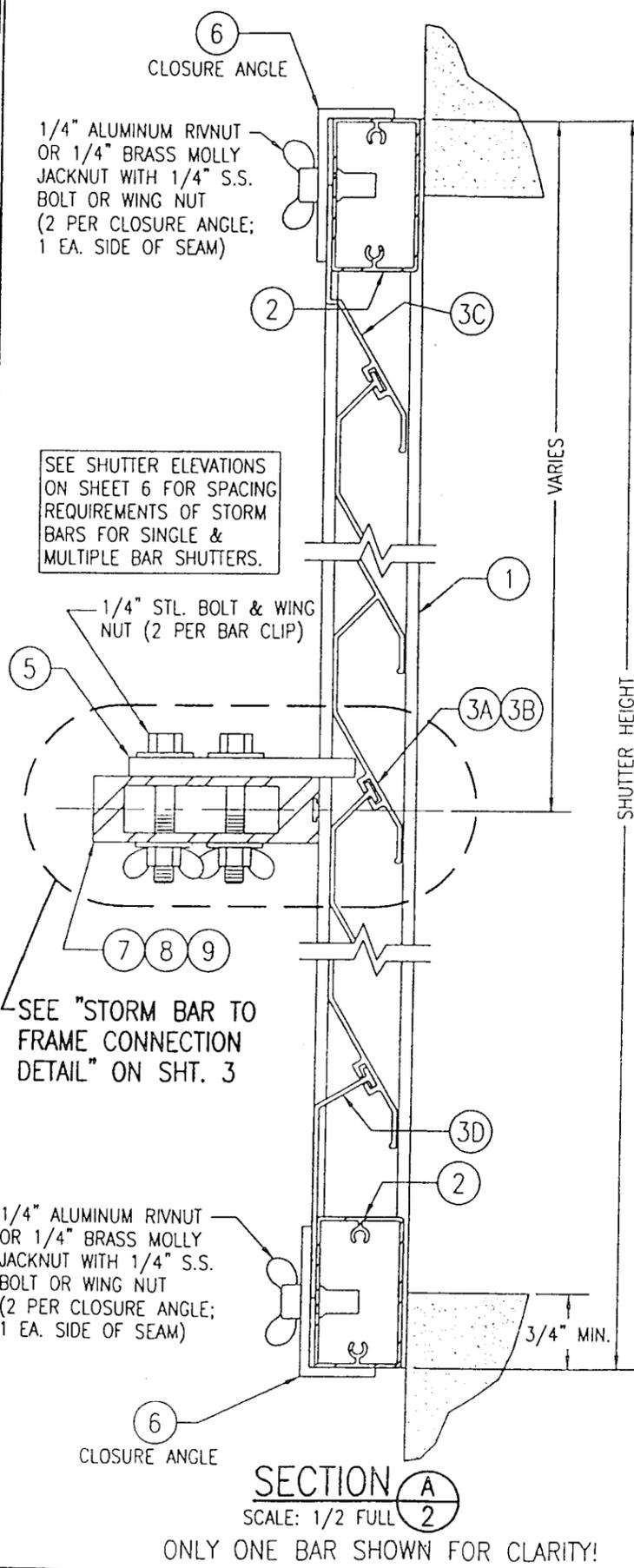
**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 02-0226.03 and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez**.



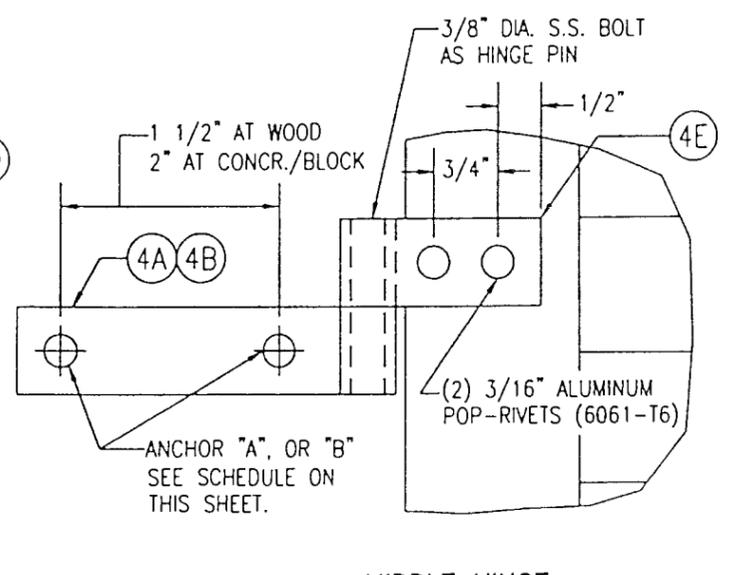
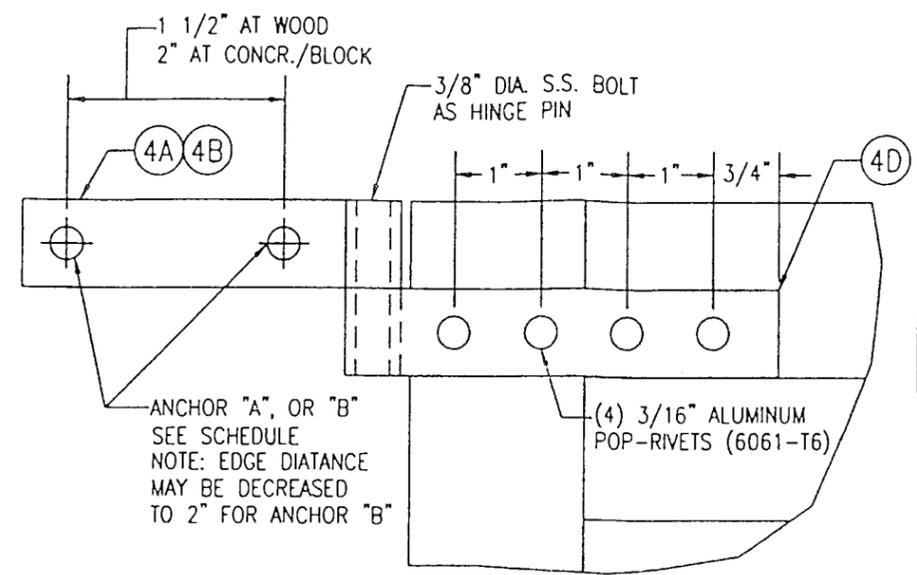
**NOA No 02-0409.01  
Expiration Date: October 25, 2006  
Approval Date: April 9, 2002  
Page 1**





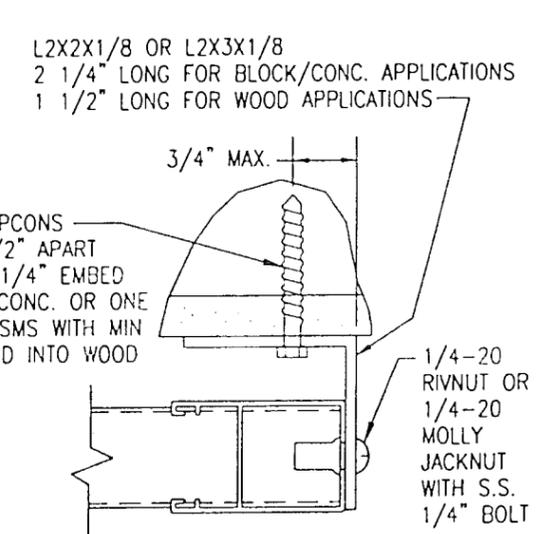
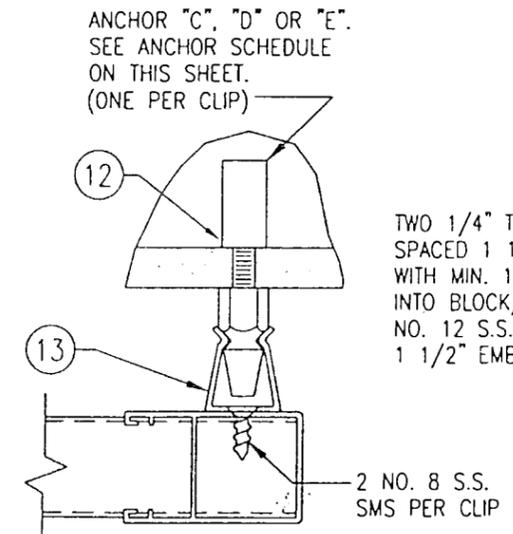
SHUTTER HEIGHT

VARIES



ANCHOR SCHEDULE				
ANCHOR NO.	ANCHOR TYPE	SUBSTRATE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
A	NO. 12 S.S. SMS SCREW	WOOD	1 1/2"	3/4"
B	1/4" TAPCON	CONCRETE OR FILLED BLOCK	1 3/4"	3"
C	1/4-20 RAWL CAULK-IN	CONCRETE/BLOCK	7/8"	3"
D	1/4-20 PANELMATE (MALE OR FEMALE)	WOOD	1 7/8"	3/4"
E	1/4-20 PANELMATE (MALE OR FEMALE)	CONCRETE/BLOCK	1 1/4"	3"

NOTE: 1/4" STL. OR S.S. BOLTS SHALL BE USED WITH ANCHORS C, D & E.



POSITIONED BETWEEN EACH HINGE (MAX. 32" O.C.)  
SHUTTERS MUST BE CLOSED & SECURED WHEN WIND SPEEDS ARE IN EXCESS OF 75 MPH

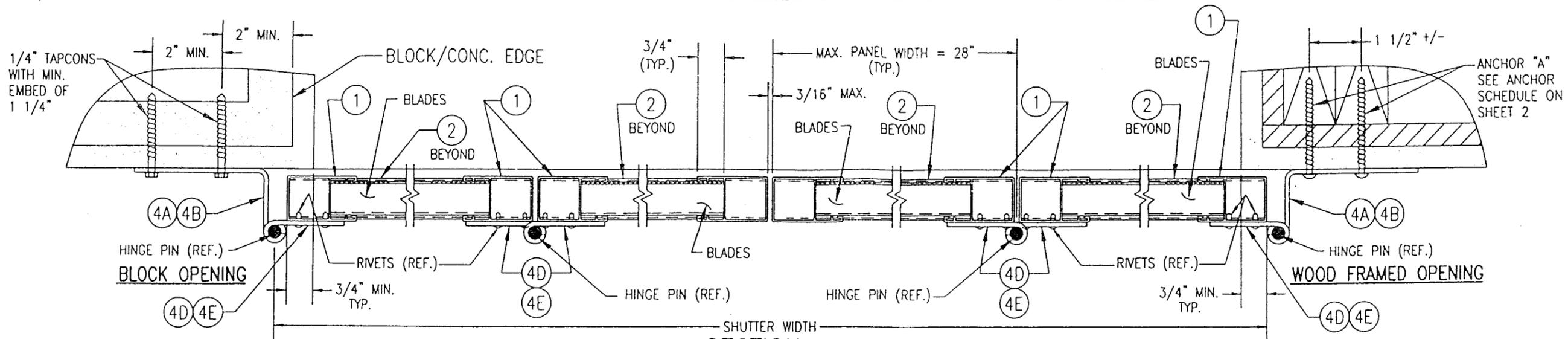
POSITIONED BETWEEN EACH HINGE (MAX. 32" O.C.)

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No. 02-0409.01  
Expiration Date Oct-25-2006

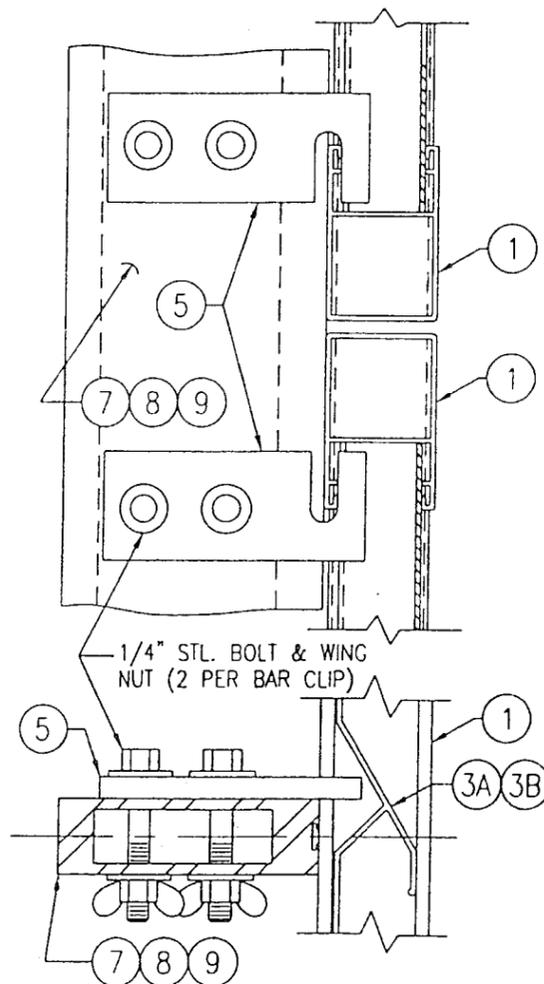
By: [Signature]  
Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE 10/25/2001  
BY: [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0209.09

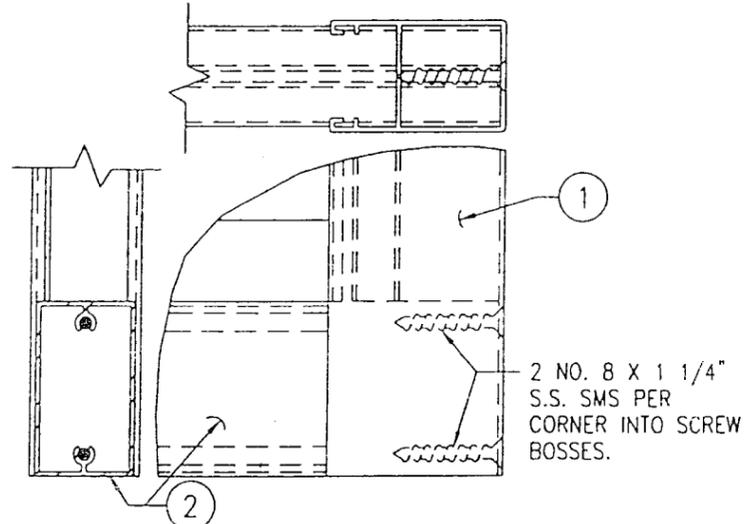
DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 11/22/00
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE: IMPACT COLONIAL SHUTTER (DADE)	
MANUFACTURER: FOLDING SHUTTER CORPORATION 7089 HEMSTREET PLACE WEST PALM BEACH, FLORIDA 33413 561-683-4811	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-773-4902 FAX: 561-775-4903	
CERTIFICATION	SEP 24 2001 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1017	REV.
SHEET NO. 2	OF 7



SECTION B  
SCALE: 1/3 FULL  
SHUTTER WIDTH  
3  
STORM BAR NOT SHOWN FOR CLARITY!



STORM BAR TO FRAME  
CONNECTION DETAIL  
SCALE: 1/2 FULL

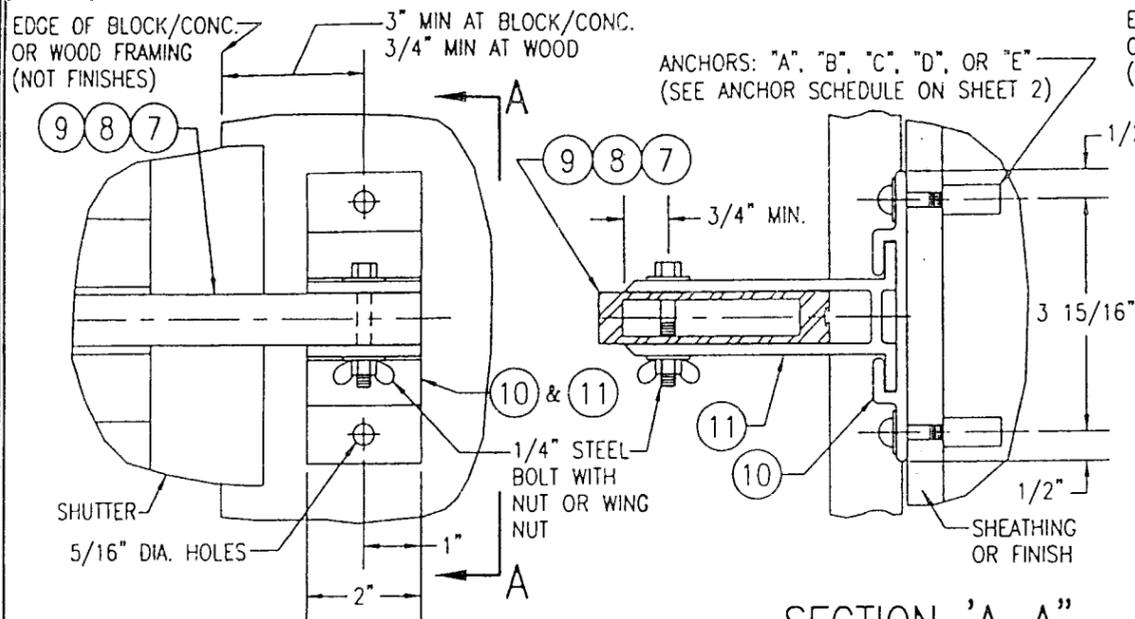


GUT OUT 1 AND PROJECT 2 INTO 1  
FRAME CORNER DETAIL  
SCALE: 1/2 FULL SIZE

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 02-0409.01  
Expiration Date 02-28-2006  
By *[Signature]*  
Miami Dade Product Control  
Division

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE 10/25/2001  
BY *[Signature]*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO 01-0209.09

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PLOT: 1-2	DATE: 11/22/00
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REVISION DESCRIPTION	
NO.	
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CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER FOLDING SHUTTER CORPORATION 7089 HEMSTREET PLACE WEST PALM BEACH, FLORIDA 33413 561-683-4811
CERTIFICATION SEP 24 2001 <i>[Signature]</i> WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1017	REV.
SHEET NO. 3	OF 7

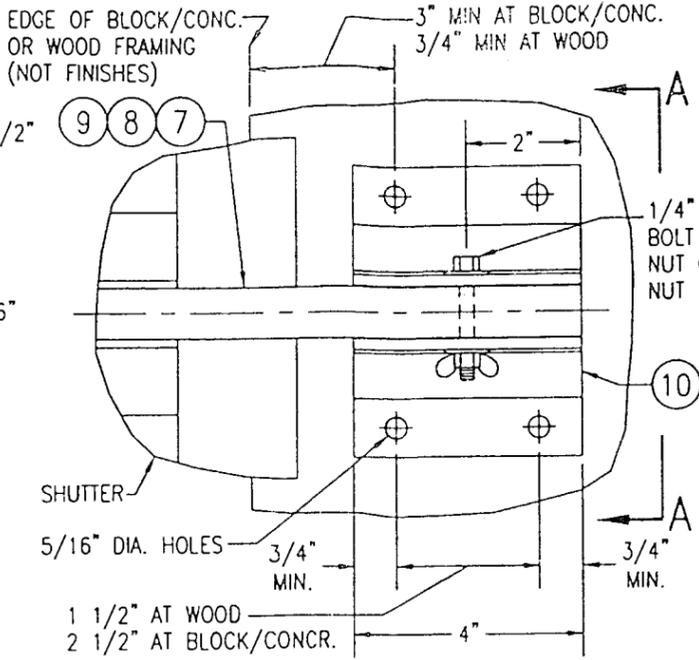


**STORM BAR END CONNECTION "A"**

SCALE: 1/3 FULL SIZE

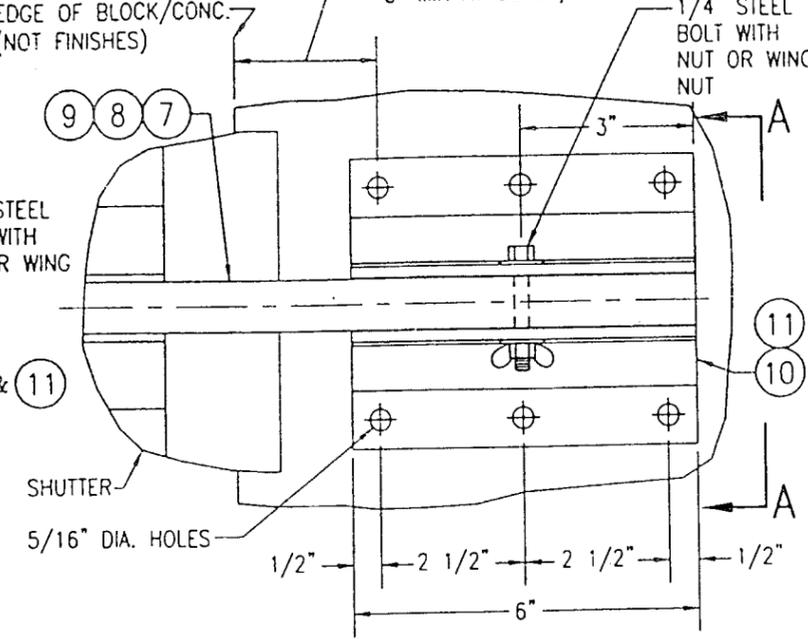
**SECTION 'A-A'**

SCALE: 1/3 FULL SIZE



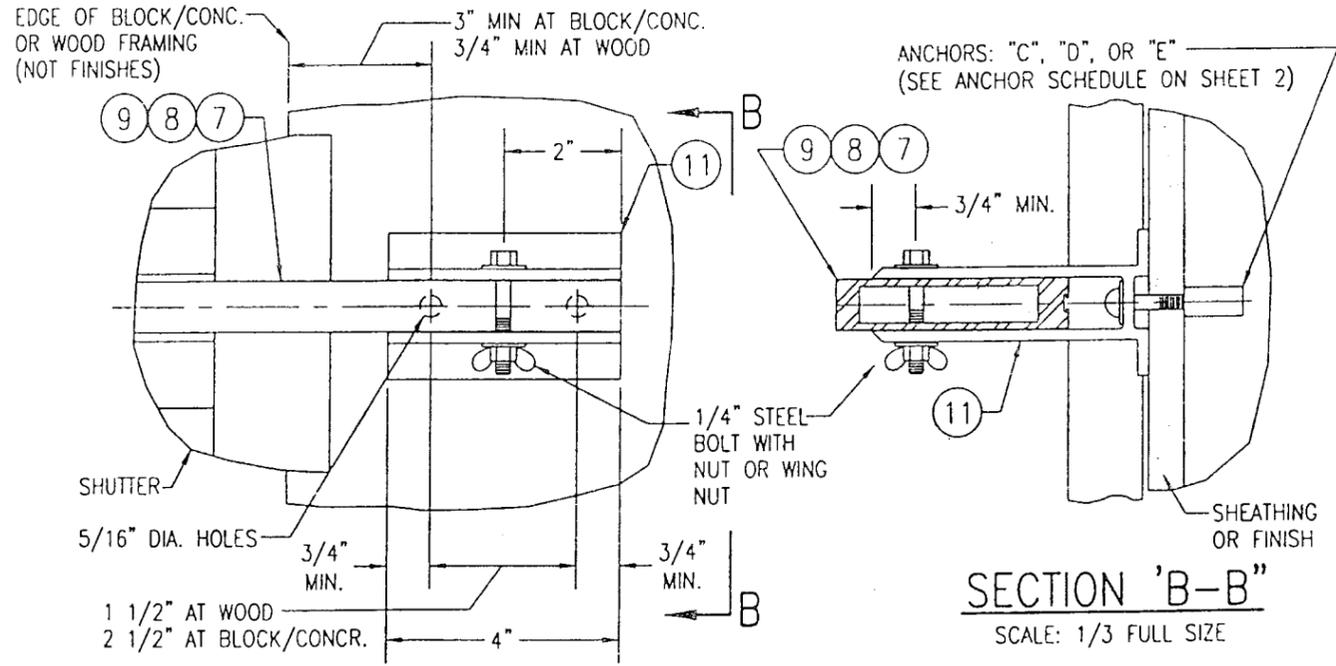
**STORM BAR END CONNECTION "C"**

SCALE: 1/3 FULL SIZE



**STORM BAR END CONNECTION "D"**

SCALE: 1/3 FULL SIZE



**STORM BAR END CONNECTION "B"**

SCALE: 1/3 FULL SIZE

**SECTION 'B-B'**

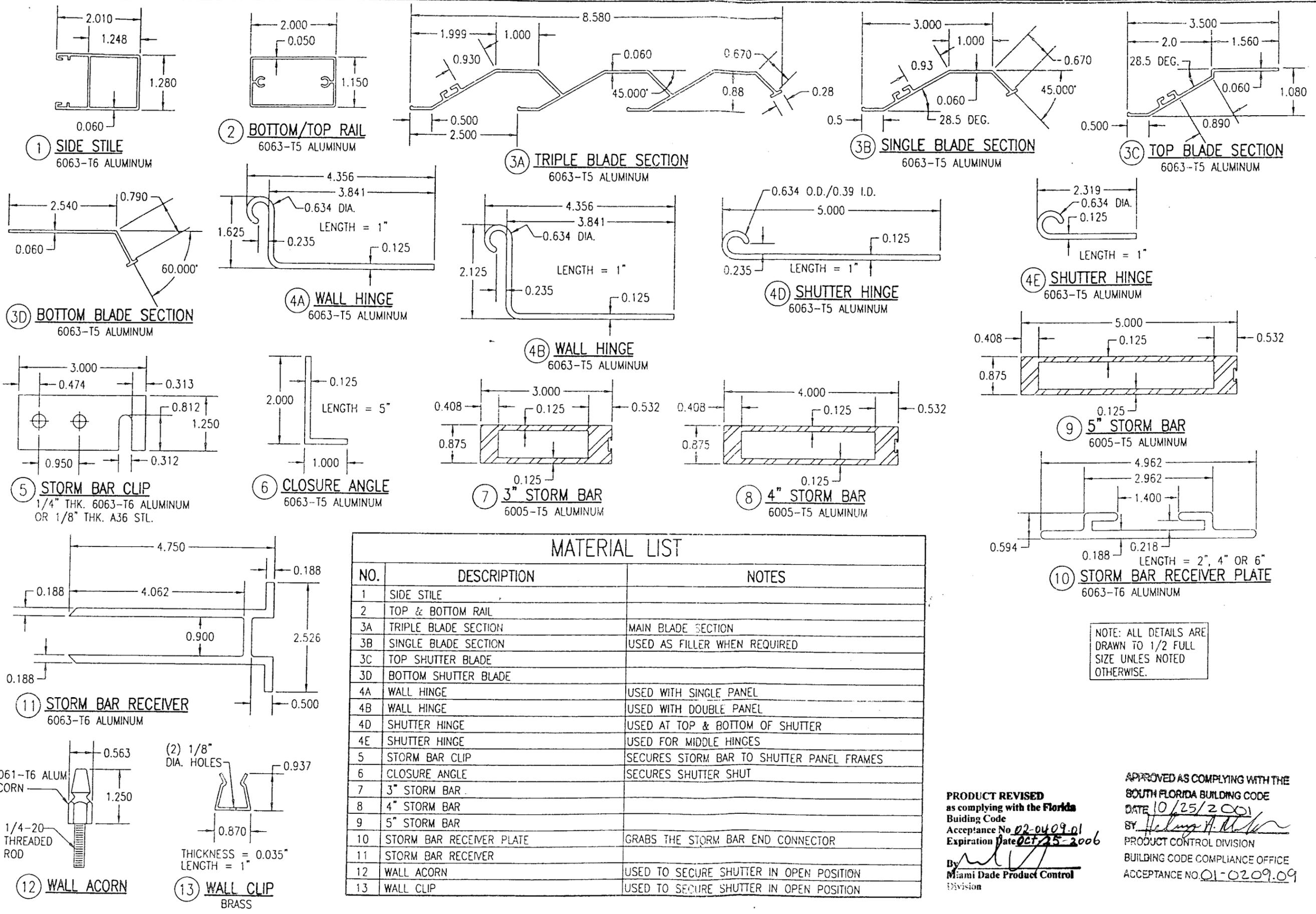
SCALE: 1/3 FULL SIZE

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 02-0409-01  
 Expiration Date 02-25-2006  
 By *[Signature]*  
 Miami Dade Product Control  
 Division

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE 10/25/2001  
 BY *[Signature]*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 01-0209-09

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-3		DATE: 11/22/00	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: <b>IMPACT COLONIAL SHUTTER (DADE)</b> MANUFACTURER: <b>FOLDING SHUTTER CORPORATION</b> CONSULTANTS: <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-773-4902 FAX: 561-775-4903			
DRAWING NO. <b>1017</b> SHEET NO. <b>4</b> OF <b>7</b>			

CERTIFICATION  
**SEP 24 2001**  
*[Signature]*  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44135



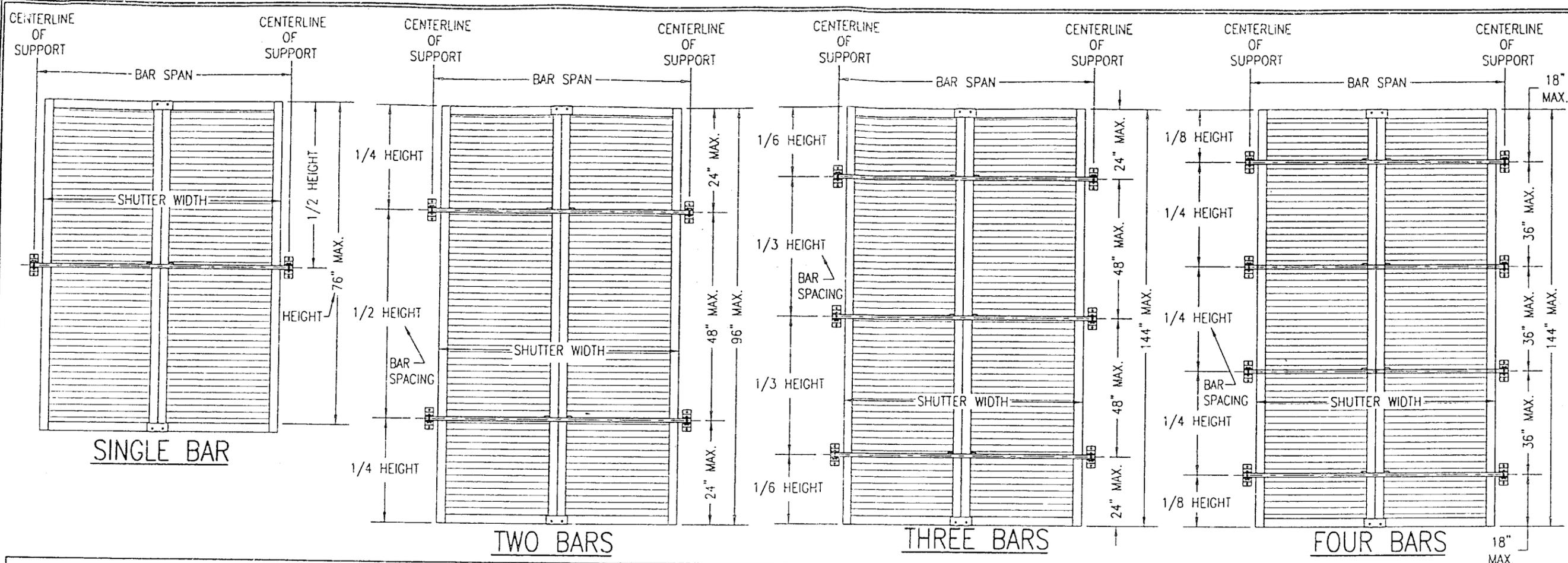
MATERIAL LIST		
NO.	DESCRIPTION	NOTES
1	SIDE STILE	
2	TOP & BOTTOM RAIL	
3A	TRIPLE BLADE SECTION	MAIN BLADE SECTION
3B	SINGLE BLADE SECTION	USED AS FILLER WHEN REQUIRED
3C	TOP SHUTTER BLADE	
3D	BOTTOM SHUTTER BLADE	
4A	WALL HINGE	USED WITH SINGLE PANEL
4B	WALL HINGE	USED WITH DOUBLE PANEL
4C	SHUTTER HINGE	USED AT TOP & BOTTOM OF SHUTTER
4D	SHUTTER HINGE	USED FOR MIDDLE HINGES
5	STORM BAR CLIP	SECURES STORM BAR TO SHUTTER PANEL FRAMES
6	CLOSURE ANGLE	SECURES SHUTTER SHUT
7	3" STORM BAR	
8	4" STORM BAR	
9	5" STORM BAR	
10	STORM BAR RECEIVER PLATE	GRABS THE STORM BAR END CONNECTOR
11	STORM BAR RECEIVER	
12	WALL ACORN	USED TO SECURE SHUTTER IN OPEN POSITION
13	WALL CLIP	USED TO SECURE SHUTTER IN OPEN POSITION

NOTE: ALL DETAILS ARE DRAWN TO 1/2 FULL SIZE UNLESS NOTED OTHERWISE.

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No 02-0409.01  
 Expiration Date 02/25-2006  
 By Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE 10/25/2001  
 BY Warren W. Schaefer, P.E.  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 01-0209.09

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REVISION DESCRIPTION	DATE
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CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	
MANUFACTURER: FOLDING SHUTTER CORPORATION	
7089 HEMSTREET PLACE WEST PALM BEACH, FLORIDA 33413 PHONE: 561-775-4902 FAX: 561-683-4811	
CERTIFICATION: SEP 24 2001	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1017	REV.
SHEET NO. 5	OF 7



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 11/22/00
DATE	BY
REVISION DESCRIPTION	NO.
IMPACT COLONIAL SHUTTER (DADE)	
MANUFACTURER FOLDING SHUTTER CORPORATION 7089 HEMSTREET PLACE WEST PALM BEACH, FLORIDA 33413 561-683-4811	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4803	
CERTIFICATION SEP 24 2001	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1017	REV.
SHEET NO. 6 OF 7	

**LOAD TABLE INSTRUCTIONS:**

1. DETERMINE THE SIZE OF THE SHUTTER.
  2. DETERMINE WHAT THE REQUIRED DESIGN POSITIVE & NEGATIVE WIND LOADS ARE FOR THE SHUTTER.
  3. IF THE SHUTTER HEIGHT IS 76" OR LESS, GO TO THE PRESSURE TABLE ON THIS SHEET. IF THE REQUIRED LOADS ARE LESS THAN OR EQUAL TO THOSE IN THE TABLE, ONLY ONE BAR IS REQUIRED. IF NOT, MORE THAN ONE BAR IS REQUIRED.
  4. IF THE SHUTTER HEIGHT IS GREATER THAN 76", DO NOT USE THE TABLE ON THIS SHEET & GO TO THE STORM BAR LOAD TABLES ON SHEET 7.
  5. IF ONLY ONE BAR IS REQUIRED, GO TO THE STORM BAR LOAD TABLES ON SHEET 7. FIND THE APPLICABLE SHUTTER WIDTH IN THE 1ST COLUMN & SHUTTER HEIGHT IN THE 2ND COLUMN. GO ACROSS THE STORM BAR COLUMNS UNTIL YOU HAVE A BAR WHICH MEETS THE REQUIRED PRESSURE. THEN GO ACROSS THE CONNECTION COLUMNS UNTIL YOU HAVE A CONNECTION THAT MEETS THE REQUIRED PRESSURE. USE THAT BAR & THAT CONNECTION. NOTE THAT IF YOU DECIDE THAT THE BAR &/OR CONNECTION IS TOO LARGE FOR YOUR LIKING, ADD A BAR & GO TO INSTRUCTION NUMBER 6 BELOW.
  6. IF MORE THAN ONE BAR IS REQUIRED, GO TO THE STORM BAR LOAD TABLES ON SHEET 7. FIND THE APPLICABLE SHUTTER WIDTH IN THE 1ST COLUMN & STORM BAR SPACING IN THE 2ND COLUMN. GO ACROSS THE STORM BAR COLUMNS UNTIL YOU HAVE A BAR WHICH MEETS THE REQUIRED PRESSURE. THEN GO ACROSS THE CONNECTION COLUMNS UNTIL YOU HAVE A CONNECTION THAT MEETS THE REQUIRED PRESSURE. USE THAT BAR & THAT CONNECTION. NOTE THAT IF YOU DECIDE THAT THE BAR &/OR CONNECTION IS TOO LARGE FOR YOUR LIKING, ADD ANOTHER BAR & START AGAIN WITH INSTRUCTION NUMBER 6.
- NOTE THAT WHEN MORE THAN ONE BAR IS USED WITH ONE SHUTTER, THE MAXIMUM BAR SPACING MAY NOT EXCEED 48".

**ALLOWABLE PRESSURE TABLE FOR SINGLE BAR SHUTTERS**

SHUTTER HEIGHT	PRESSURE (PSF)	
	POSITIVE	NEGATIVE
54" & LESS	80.0	80.0
58"	75.4	75.4
62"	66.0	66.0
66"	58.3	58.3
70"	51.8	51.8
74"	46.3	46.3
76"	40.0	40.0

- SINGLE BAR SHUTTER PRESSURE TABLE NOTES:**
1. THE SHUTTER MUST BE PLACED A MIN. DISTANCE OF 2.5" AWAY FROM THE GLASS IT PROTECTS.
  2. SEE INSTRUCTIONS ON THIS SHEET FOR USE OF ALL LOAD TABLES.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 02-0400-01  
Expiration Date Oct. 25, 2006

By: *[Signature]*  
Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE 10/25/2001  
BY: *[Signature]*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0209-09

