



**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)**

**Homeshield Industries, Inc.  
3585 E. 10<sup>th</sup> Court  
Hialeah, Florida 33013**

**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 Accordion Shutter**

**APPROVAL DOCUMENT:** Drawing No. **02-528**, titled " Supper Shutter Accordion ", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated November 07, 2002, last revision #1 dated November 07, 2002 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 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..

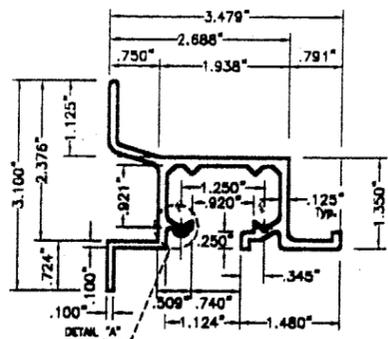
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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 **revises & renews NOA # 99-1122.04** & consists of this page 1 & approval document mentioned above The submitted documentation was reviewed by **Helmy A. Makar, P.E.**



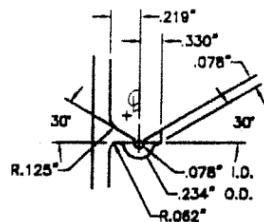
**NOA No 03-0106.08  
Expiration Date: 03/06/2008  
Approval Date: 03/27/2003  
Page 1**



(A) HEADER-WALL MOUNTING

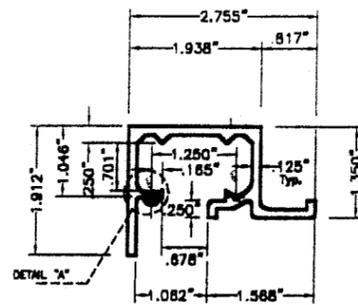
(A) SILL-WALL MOUNTING (INVERTED USE)

SCALE: 3/8" = 1"



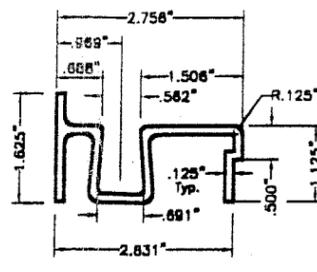
DETAIL "A"  
HEADER

SCALE: 2 : 1



(B) HEADER CEILING MOUNTING

SCALE: 3/8" = 1"



(C) SILL

SCALE: 3/8" = 1"

GENERAL NOTES:

1. ACCORDION SHUTTER SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2001 EDITION OF THE FLORIDA BUILDING CODE. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1619 OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED OF 148 m.p.h., AND IN ACCORDANCE W/ ASCE 7-98 STANDARD. ACCORDION SHUTTER'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1606.1.4 OF THE ABOVE MENTIONED CODE.

2. STAINLESS STEEL SHEET METAL SCREWS USED AT LOUVER PIN SHALL BE # 14 x 3", TYPE B, 410-H MINIMUM SERIES. SCREWS SHALL BE COATED WITH XLAN 5000 SERIES FLUOROPOLYMER COATINGS AS MANUFACTURED BY WHITFORD Co., BOX 507, WEST CHESTER PA. 19381.

3. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T8 ALLOY (UNLESS OTHERWISE NOTED).

4. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES W/ 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH.

5. ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.

6. BOLTS TO BE 2024-T4 ALUMINUM ALLOY GALVANIZED OR STAINLESS STEEL WITH 35 ksi MINIMUM YIELD POINT.

7. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)

(A) TO EXISTING POURED CONCRETE:

- 1/4" # TAPCON, AS MANUFACTURED BY I.T.W. BUILDEX OR ELCO TEXTRON.

- 1/4" # x 7/8" CALK-IN ANCHOR AS MANUFACTURED BY POWERS FASTENING, INC.

NOTES:

A.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO CONCRETE IS 1 3/4".

A.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" #-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST.

A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1 & A.2 ABOVE.

(B) TO EXISTING CONCRETE BLOCK WALL:

- 1/4" # TAPCON, AS MANUFACTURED BY I.T.W. BUILDEX OR ELCO TEXTRON.

- 1/4" # x 7/8" CALK-IN ANCHORS AS MANUFACTURED BY POWERS FASTENING, INC.

NOTES:

B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".

B.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" #-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

B.3) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE 1 1/4" MINIMUM FOR ANCHORS MENTIONED IN B.1.), & 7/8" FOR ANCHORS MENTIONED IN B.2.).

(C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

8. EACH UNIT SHALL HAVE A READY VISIBLE DECAL INSTRUCTING OWNER OR TENANT THE MANDATORY USE OF TWO ANGLES FASTENED TOGETHER WITH BOLT AND WINGNUT, OR TWO FLAT PLATES SECURED WITH THUMB SCREWS, AT CENTER MATES DURING PERIODS OF HURRICANE WARNING.

9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.

10. (A) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT APPROVAL PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

(C) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

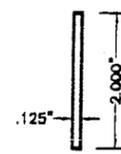
(D) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. PROFESSIONAL OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LETTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(E) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.

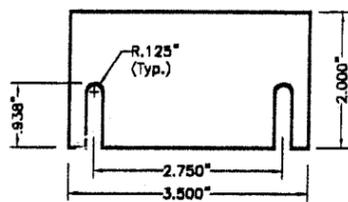
11. A LABEL SHALL BE AFFIXED AT BOTTOM OF LOCKING MEMBER UNIT WITH THE FOLLOWING STATEMENT: HOMESHIELD INDUSTRIES INC. HIALEAH, FL. THE SUPER SHUTTER ACCORDION TYPE "MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED"

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 03-0106.08  
Expiration Date 03/06/2008  
By *Helmut A. Miller*  
Miami Dade Product Control  
Division

F.B.C. (H.V.H.Z.) / MIAMI-DADE COUNTY



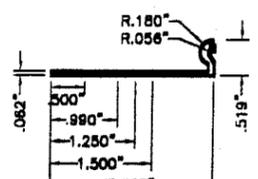
SIDE ELEVATION



FRONT ELEVATION

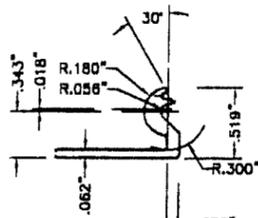
(D) INSIDE LOCKER

SCALE: 3/8" = 1"



(E) 180° STARTER

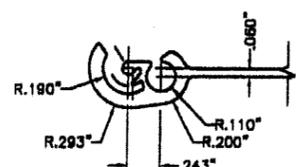
SCALE: 3/8" = 1"



DETAIL  
180° STARTER

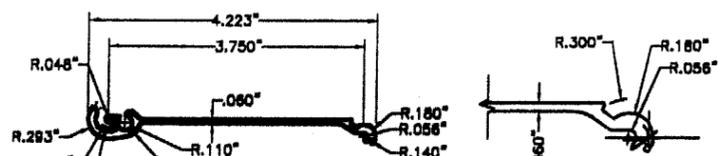
SCALE: 2 : 1

COMPONENTS



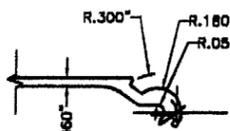
DETAIL  
BLADE

SCALE: 2 : 1



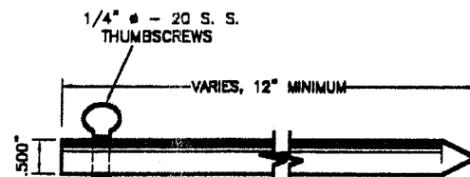
(F) LOUVER BLADE

SCALE: 3/8" = 1"



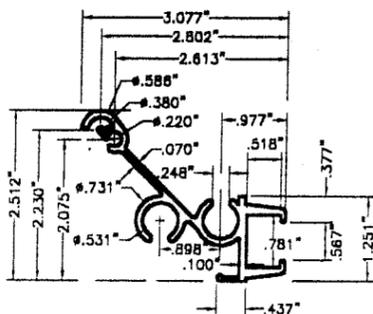
DETAIL  
BLADE

SCALE: 2 : 1



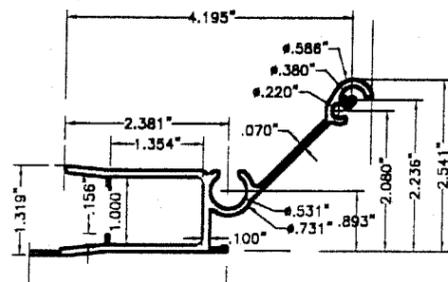
(G) LOCKING PIN

SCALE: 3/8" = 1"



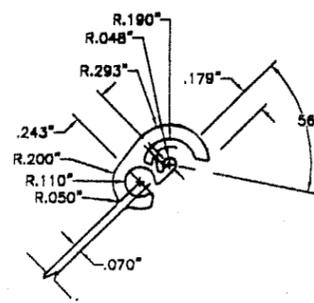
(H) MALE LOCK SLAT

SCALE: 3/8" = 1"



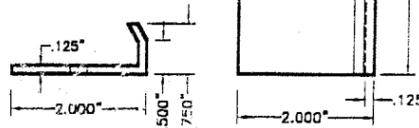
(I) FEMALE LOCK SLAT

SCALE: 3/8" = 1"



DETAIL  
FEMALE LOCK  
& MALE LOCK

SCALE: 2 : 1



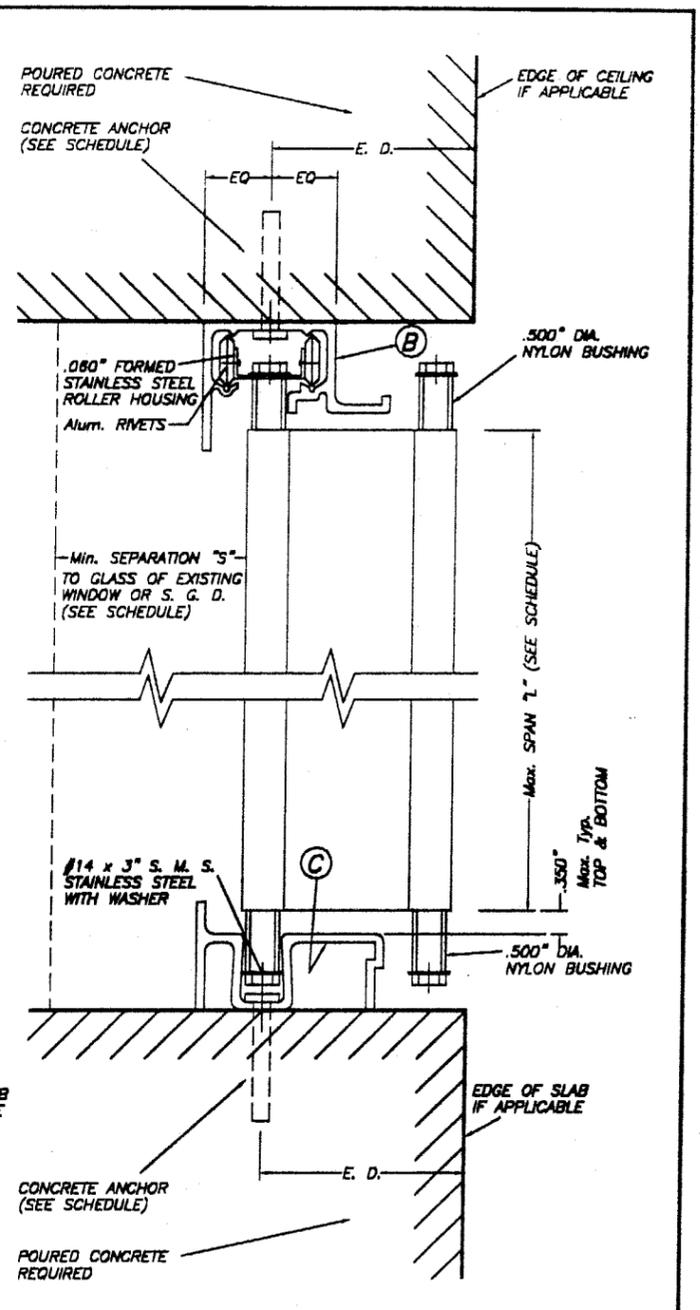
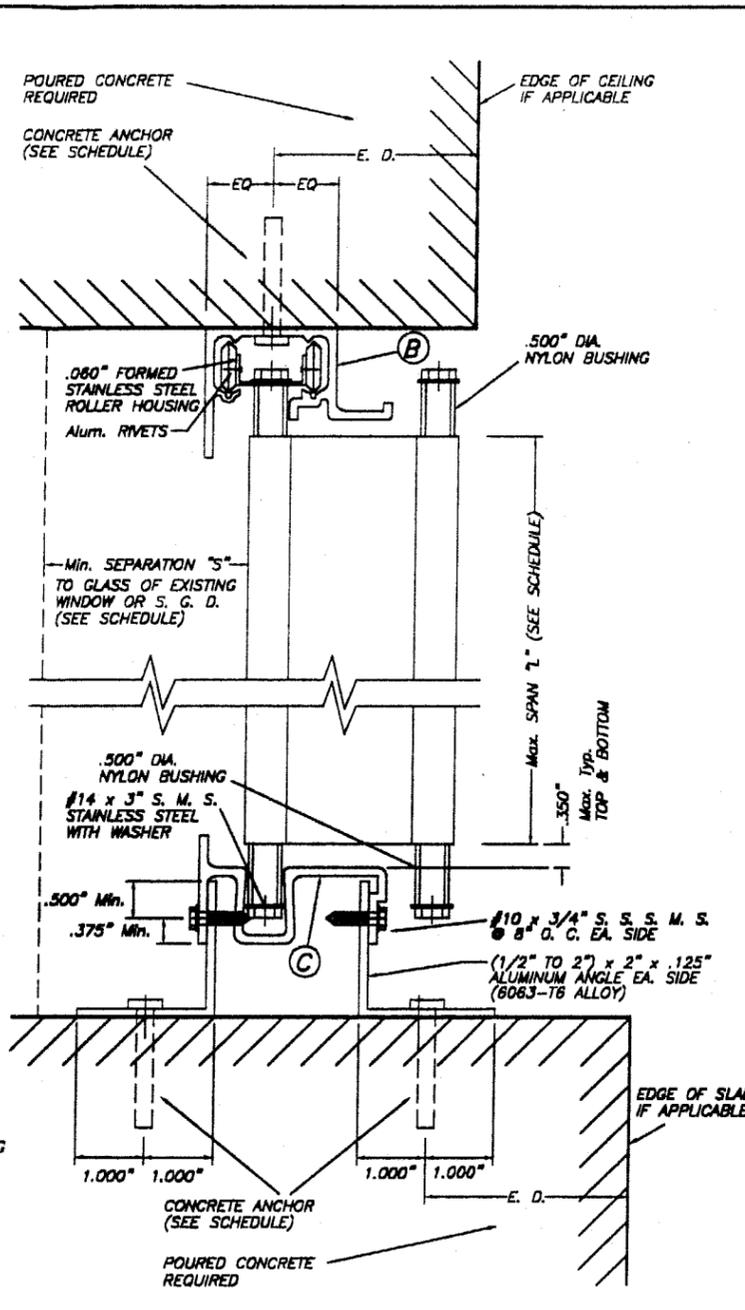
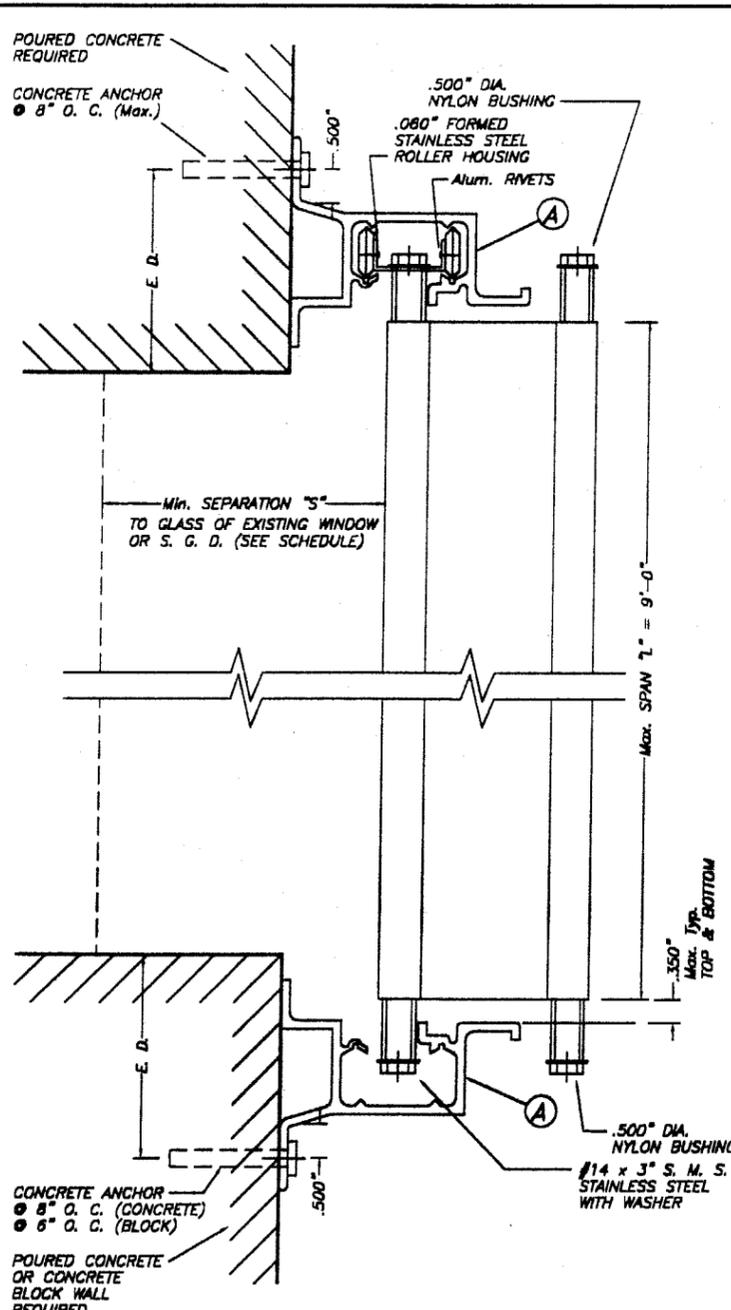
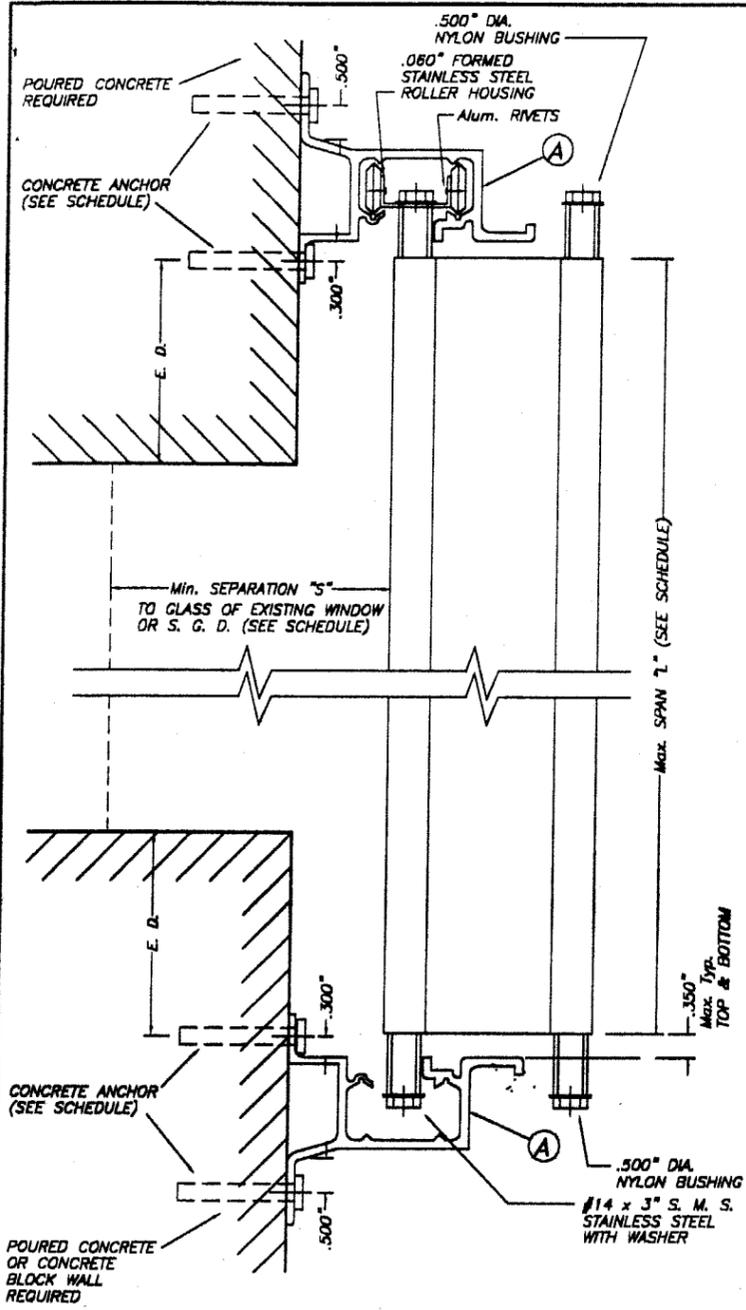
(J) OUTSIDE LOCKER

SCALE: 3/8" = 1"

**TILECO Inc.**  
TILLIT TESTING & ENGINEERING COMPANY  
6595 N.W. 36th. St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33166  
Phone: (305)871-1530 Fax: (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P. E.  
FLORIDA Lic. # 44167

SUPER SHUTTER ACCORDION			AS SHOWN SCALE		
HOMESHIELD INDUSTRIES, INC.			11/7/02 DATE		
3585 E. 10th. COURT HIALEAH, FLORIDA 33013			02-528 DRAWING No		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	GLD 98-252	11/7/02	3	-	-
2	-	-	4	-	-

SHEET 1 OF 8



**WALL MOUNTING INSTALLATION**  
 - SECTION A SCALE: 3/8" = 1"

**WALL MOUNTING INSTALLATION**  
 - SECTION A1 SCALE: 3/8" = 1"

**CEILING/FLOOR MOUNTING INSTALLATION**  
 - SECTION B SCALE: 3/8" = 1"

**CEILING/FLOOR MOUNTING INSTALLATION**  
 - SECTION B1 SCALE: 3/8" = 1"

NOTE : THIS SECTION ONLY VALID FOR DESIGN LOADS UP TO 75 psf.

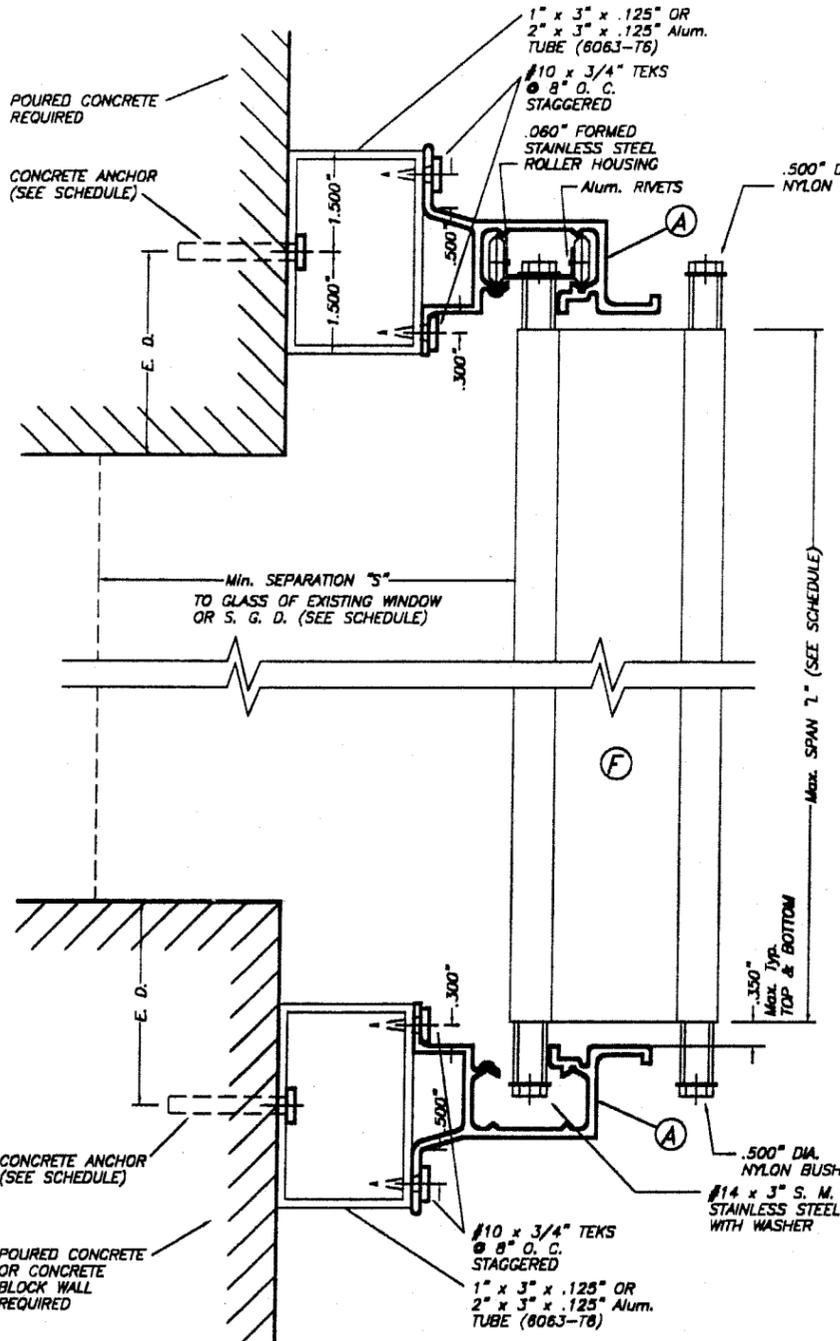
E. D. = EDGE DISTANCE  
 (SEE SCHEDULE ON SHEET 5 OF 6)

*Walter A. Tillit Jr.*  
 M.I.H.

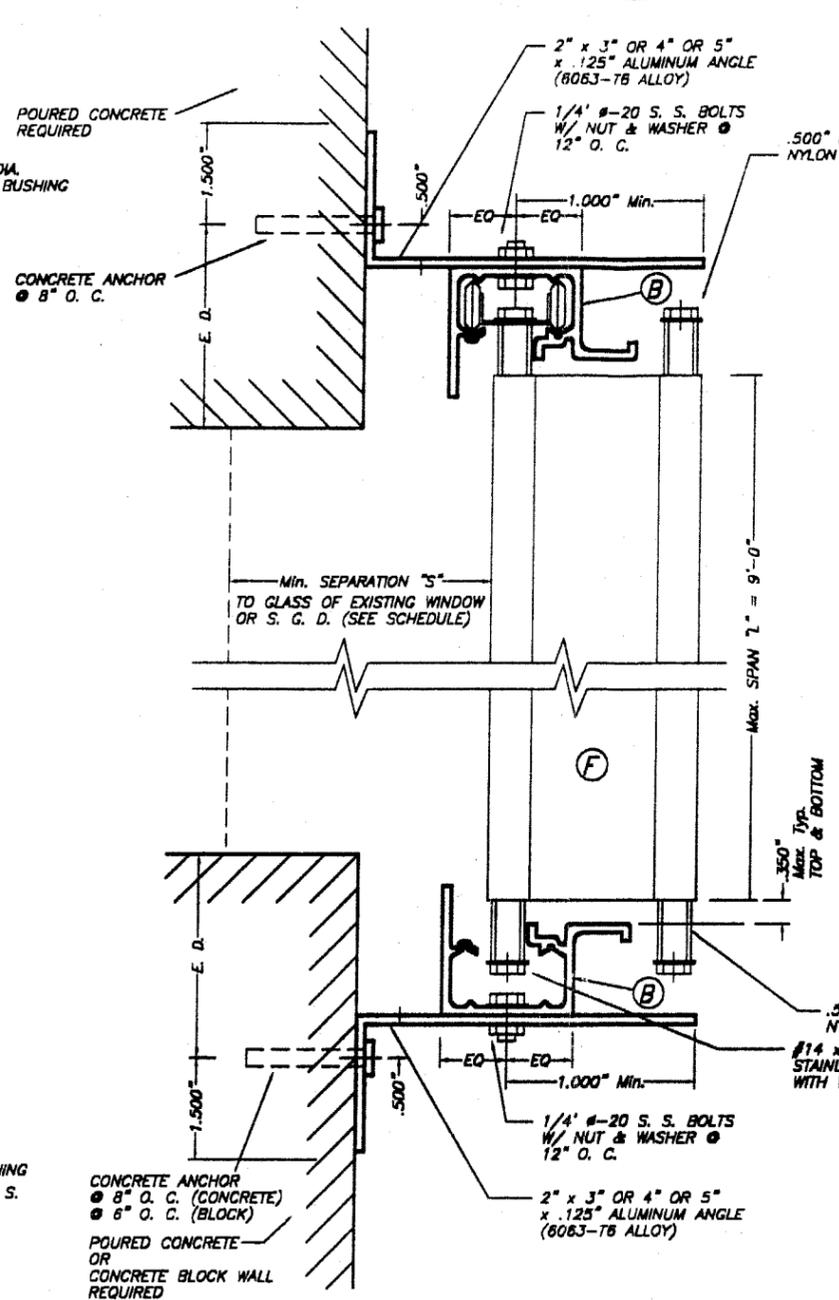
PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 03-0106.08  
 Expiration Date 03/06/2008  
 By *Helmut A. Miller*  
 Miami Dade Product Control  
 Division

F.B.C. (H.V.H.Z.) / MIAMI-DADE COUNTY

 <b>TILECO Inc.</b> TILLIT TESTING & ENGINEERING COMPANY 8595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33186 Phone : (305)871-1330 Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT JR., P. E. FLORIDA Lic. # 44167		SUPER SHUTTER ACCORDION		AS SHOWN SCALE	
		<b>HOMESHIELD INDUSTRIES, INC.</b> 3585 E. 10th. COURT HIALEAH, FLORIDA 33013		11/7/02 DATE	
				02-528 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 98-252	11/7/02	3	-	-
2	-	-	4	-	-
					SHEET 2 OF 6

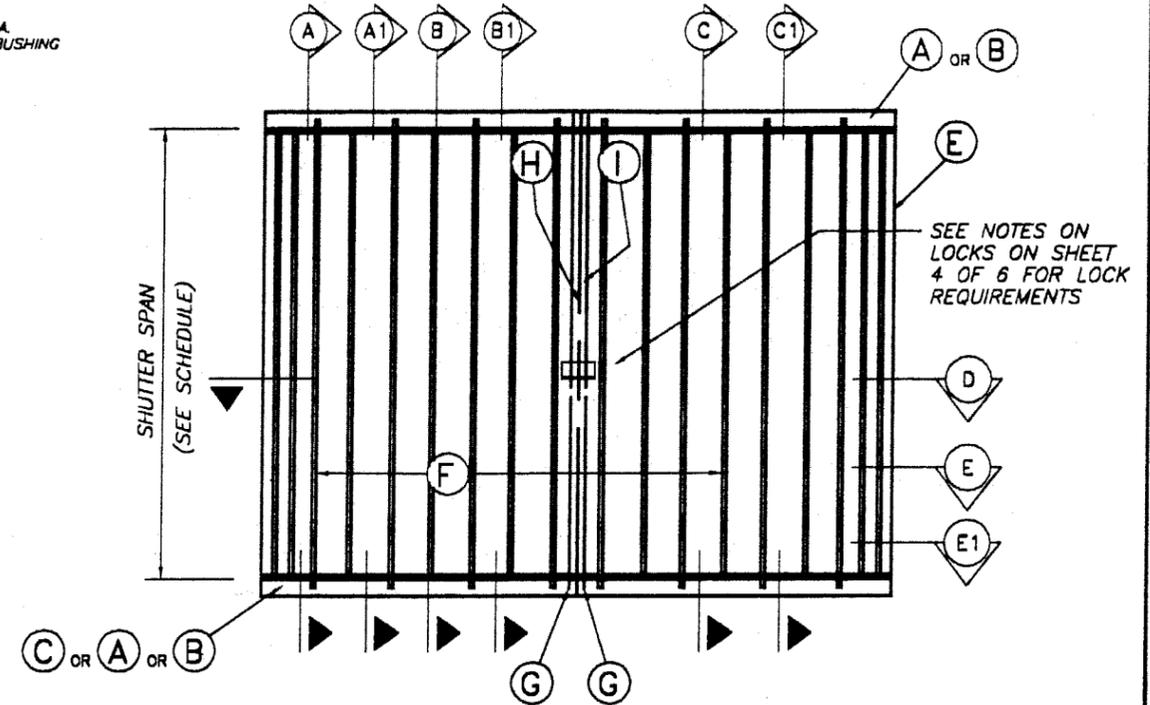


**WALL MOUNTING INSTALLATION (OFFSET)**  
 - SECTION C  
 SCALE: 3/8" = 1"



**WALL MOUNTING INSTALLATION (OFFSET)**  
 - SECTION C1  
 SCALE: 3/8" = 1"

NOTE: THIS SECTION ONLY VALID FOR DESIGN LOADS UP TO 75 psf.



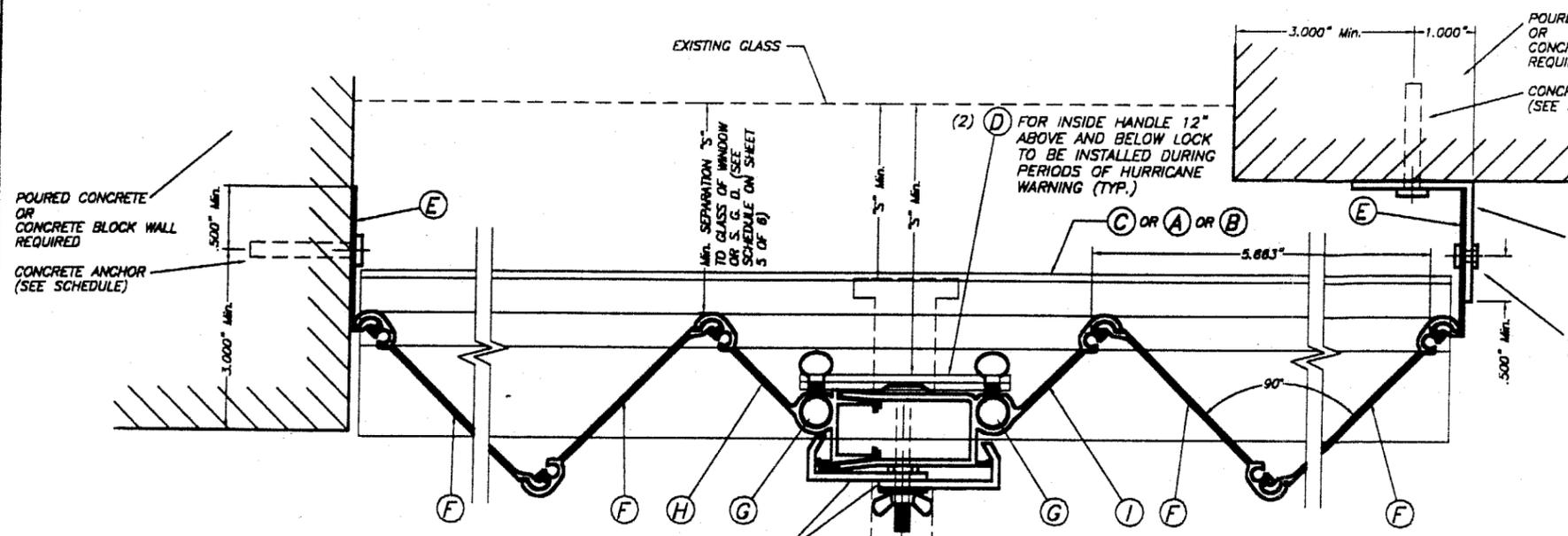
**TYPICAL ELEVATION** N. T. S.

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 03-0106.08  
 Expiration Date 03/06/2008  
 By *Helmut A. Meier*  
 Miami Dade Product Control  
 Division

E. D. = EDGE DISTANCE  
 (SEE SCHEDULE ON  
 SHEET 5 OF 6)

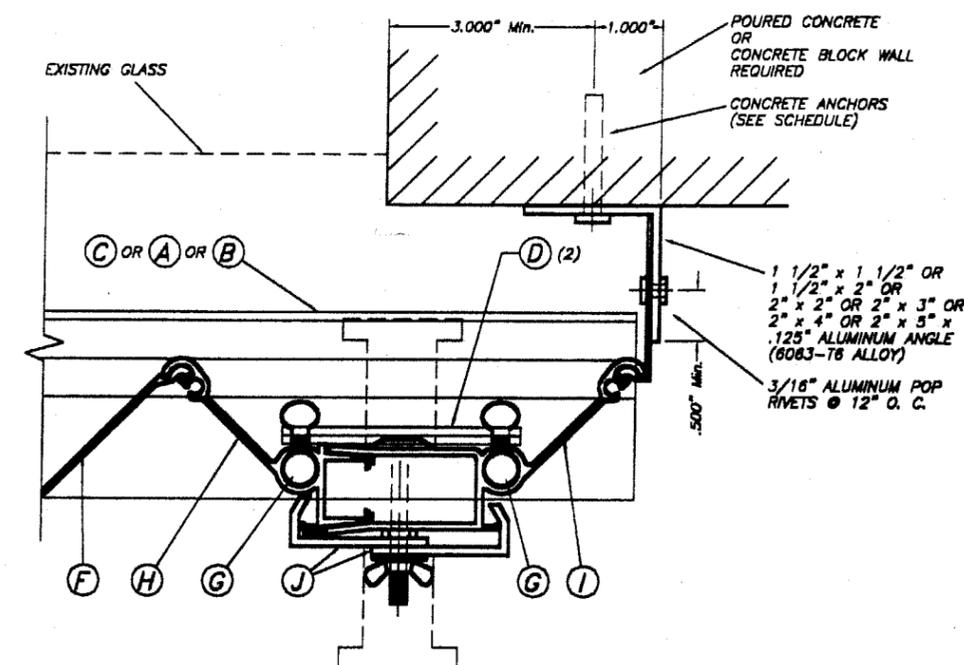
F.B.C. (H.V.H.Z.) / MIAMI-DADE COUNTY

 TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 38th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33166 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT JR., P. E. FLORIDA Lic. # 44167		SUPER SHUTTER ACCORDION AS SHOWN SCALE			
		HOMESHIELD INDUSTRIES, INC. 3585 E. 10th. COURT HIALEAH, FLORIDA 33013			
11/7/02 DATE 02-528 DRAWING No		SHEET 3 OF 6			
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 98-252	11/7/02	3	-	-
2	-	-	4	-	-



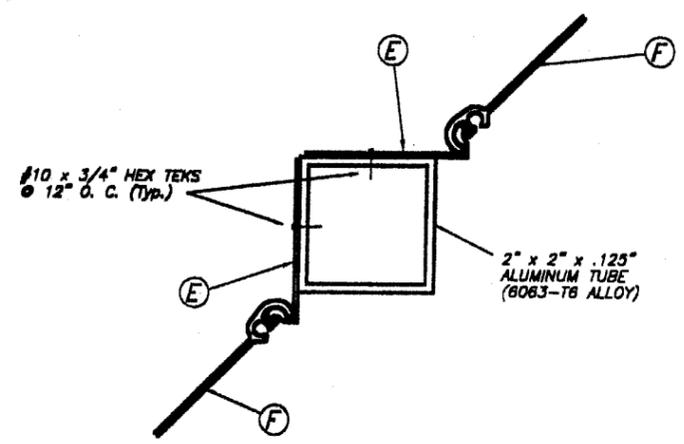
**SECTION D**

SCALE: 3/8" = 1"



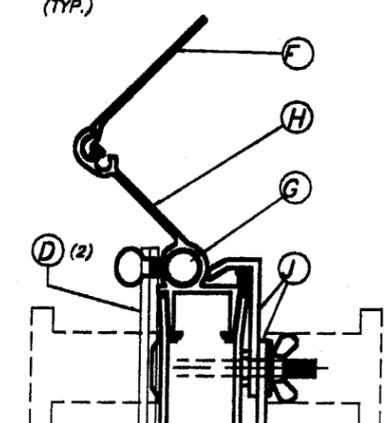
**ONE SIDED SHUTTER : END CONNECTION DETAIL**

SCALE: 3/8" = 1"



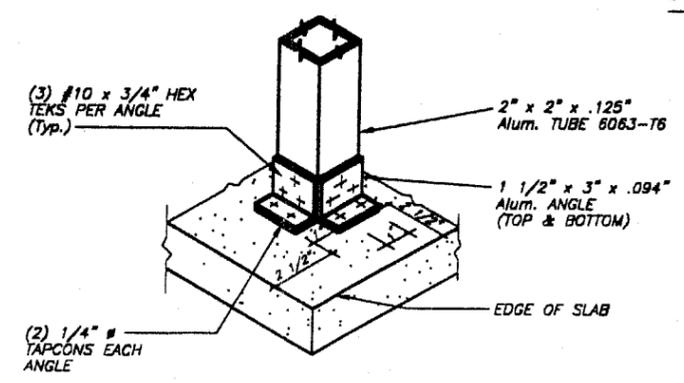
**SECTION E**

SCALE: 3/8" = 1"



**SECTION E1**

SCALE: 3/8" = 1"



**ISOMETRIC (CORNER POST) & BOTTOM SLABS**

N. T. S.

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 03-0106-08  
 Expiration Date 03/06/2008  
 By *Walter A. Tillit Jr.*  
 Miami Dade Product Control  
 Division

F.B.C. (H.V.H.Z.) / MIAMI-DADE COUNTY

		SUPER SHUTTER ACCORDION		AS SHOWN SCALE	
		<b>HOMESHIELD INDUSTRIES, INC.</b> 3585 E. 10th. COURT HIALEAH, FLORIDA 33013		11/7/02 DATE	
TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th. St., Sta. 217, VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0008719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167		02-528 DRAWING No		SHEET 4 OF 6	
REV. NO	DESCRIPTION	DATE	REV. No		DESCRIPTION
1	OLD 96-252	11/7/02	3	-	-
2	-	-	4	-	-

*Walter A. Tillit Jr.*  
 12/1/02

**MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM SPAN "L" SCHEDULE.**

(VALID FOR SECTIONS A, B, B1 & C ON SHEETS 2 & 3 OF 6).

NOTE: DESIGN PRESSURE RATING CORRESPONDS ONLY TO NEGATIVE PRESSURE (SUCTION) LOADS, IN ACCORDANCE WITH ASCE 7-98 CRITERIA FOR A GIVEN OPENING. IF NEGATIVE PRESSURE VALUES COMPLY WITH THE REQUIRED PRESSURE FOR THE OPENING, THE POSITIVE PRESSURE WILL AUTOMATICALLY QUALIFY AND NEED NOT TO BE CHECKED.

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)		MINIMUM SEPARATION "S" TO GLASS (in.)	
	*	**	*	**
45.1	12'-11"	13'-10"	3"	3"
47.8	12'-11"	13'-8"	3"	3"
49.0	12'-11"	13'-7"	3"	3"
50.5	12'-11"	13'-6"	3"	3"
52.0	12'-11"	13'-4"	3"	3"
52.4	12'-11"	13'-4"	3"	3"
55.0	12'-11"	13'-2"	3"	3"
55.2	12'-11"	13'-2"	3"	3"
55.8	12'-11"	13'-2"	3"	3"
57.2	12'-11"	13'-0"	3"	3"
58.8	12'-11"	13'-0"	3"	3"
58.8	12'-11"	13'-0"	3"	3"
59.5	12'-11"	12'-11"	3"	3"
59.7	12'-11"	12'-11"	3"	3"
81.5	12'-10"	12'-10"	3"	3"
81.8	12'-10"	12'-10"	3"	3"
81.9	12'-10"	12'-10"	3"	3"
83.4	12'-9"	12'-9"	3"	3"
83.6	12'-9"	12'-9"	3"	3"
83.7	12'-8"	12'-8"	3"	3"
86.9	12'-7"	12'-7"	3"	3"
87.0	12'-7"	12'-7"	3"	3"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)		MINIMUM SEPARATION "S" TO GLASS (in.)	
	*	**	*	**
67.5	12'-6"	12'-6"	3"	3"
70.1	12'-5"	12'-5"	3"	3"
71.1	12'-4"	12'-4"	3"	3"
71.4	12'-4"	12'-4"	3"	3"
71.5	12'-4"	12'-4"	3"	3"
72.9	12'-3"	12'-3"	3"	3"
75.1	12'-2"	12'-2"	3"	3"
75.2	12'-2"	12'-2"	3"	3"
75.3	12'-2"	12'-2"	3"	3"
77.0	12'-2"	12'-2"	3"	3"
77.5	12'-1"	12'-1"	3"	3"
78.8	12'-0"	12'-0"	3"	3"
80.7	12'-0"	12'-0"	3"	3"
81.5	11'-11"	11'-11"	3"	3"
82.5	11'-10"	11'-10"	3"	3"
83.4	11'-10"	11'-10"	3"	3"
86.2	11'-9"	11'-9"	3"	3"
86.7	11'-9"	11'-9"	3"	3"
88.8	11'-8"	11'-8"	3"	3"
88.5	11'-8"	11'-8"	3"	3"
90.3	11'-8"	11'-8"	3"	3"
90.8	11'-7"	11'-7"	3"	3"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)		MINIMUM SEPARATION "S" TO GLASS (in.)	
	*	**	*	**
91.4	11'-7"	11'-7"	3"	3"
92.7	11'-6"	11'-6"	3"	3"
93.8	11'-6"	11'-6"	3"	3"
94.8	11'-6"	11'-6"	3"	3"
96.6	11'-5"	11'-5"	3"	3"
98.8	11'-5"	11'-5"	3"	3"
97.7	11'-5"	11'-5"	3"	3"
100.5	11'-4"	11'-4"	3"	3"
101.5	11'-4"	11'-4"	3"	3"
103.7	11'-3"	11'-3"	3"	3"
108.5	11'-2"	11'-2"	3"	3"
108.8	11'-2"	11'-2"	3"	3"
110.8	11'-0"	11'-0"	3"	3"
111.0	11'-0"	11'-0"	3"	3"
114.1	11'-0"	11'-0"	3"	3"
116.5	10'-11"	10'-11"	3"	3"
116.9	10'-11"	10'-11"	3"	3"
117.6	10'-11"	10'-11"	3"	3"
119.7	10'-11"	10'-11"	3"	3"
120.0	10'-11"	10'-11"	3"	3"
121.2	10'-10"	10'-10"	3"	3"
122.5	10'-9"	10'-9"	3"	3"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)		MINIMUM SEPARATION "S" TO GLASS (in.)	
	*	**	*	**
125.3	10'-9"	10'-9"	3"	3"
125.8	10'-8"	10'-8"	3"	3"
126.7	10'-8"	10'-8"	3"	3"
129.8	10'-7"	10'-7"	3"	3"
130.9	10'-7"	10'-7"	3"	3"
131.8	10'-7"	10'-7"	3"	3"
134.3	10'-6"	10'-6"	3"	3"
136.2	10'-6"	10'-6"	3"	3"
137.9	10'-5"	10'-5"	3"	3"
140.7	10'-5"	10'-5"	3"	3"
142.8	10'-4"	10'-4"	3"	3"
143.5	10'-4"	10'-4"	3"	3"
147.0	10'-2"	10'-2"	3"	2 7/8"
148.4	10'-2"	10'-2"	3"	2 7/8"
152.8	10'-0"	10'-0"	3"	2 7/8"
153.1	10'-0"	10'-0"	3"	2 7/8"
156.8	9'-10"	9'-10"	3"	2 7/8"
157.5	9'-10"	9'-10"	3"	2 7/8"
157.6	9'-10"	9'-10"	3"	2 7/8"
160.8	9'-9"	9'-9"	3"	2 3/4"
161.7	9'-9"	9'-9"	3"	2 3/4"
164.4	9'-8"	9'-8"	3"	2 3/4"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)		MINIMUM SEPARATION "S" TO GLASS (in.)	
	*	**	*	**
165.2	9'-7"	9'-7"	3"	2 3/4"
168.1	9'-6"	9'-6"	3"	2 3/4"
168.7	9'-6"	9'-6"	3"	2 3/4"
170.0	9'-6"	9'-6"	3"	2 3/4"
175.8	9'-4"	9'-4"	3"	2 5/8"
176.8	9'-4"	9'-4"	3"	2 5/8"
180.3	9'-2"	9'-2"	3"	2 5/8"
188.0	9'-0"	9'-0"	3"	2 1/2"
195.2	8'-10"	8'-10"	3"	2 1/2"
197.2	8'-10"	8'-10"	3"	2 1/2"
199.1	8'-9"	8'-9"	3"	2 1/2"
204.7	8'-8"	8'-8"	3"	2 3/8"
211.3	8'-8"	8'-8"	3"	2 3/8"
218.9	8'-5"	8'-5"	3"	2 3/8"
221.6	8'-4"	8'-4"	3"	2 1/4"
226.3	8'-3"	8'-3"	3"	2 1/4"

**MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +**

(VALID FOR SECTIONS A, A1, B, B1, C & C1 ON SHEET 2 & 3 OF 6).

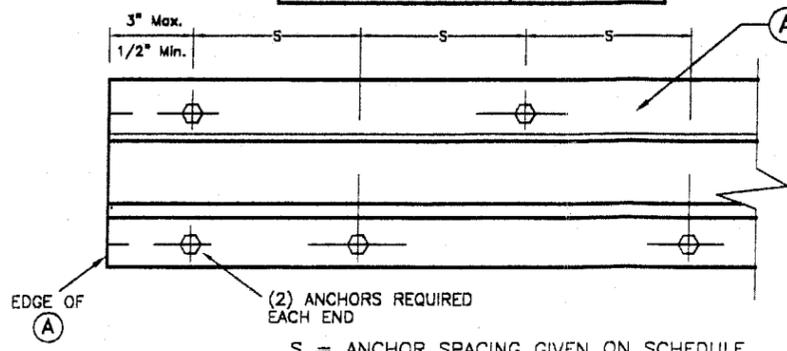
MAXIMUM DESIGN LOAD "W" (p.s.f.)	WALL MOUNTING INSTALLATION AT TOP OR BOTTOM (TO CONCRETE)			WALL MOUNTING INSTALLATION AT BOTTOM (TO MASONRY)			FLOOR/CEILING MOUNTING INSTALLATION TOP & BOTTOM (TO CONCRETE)		
	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3
FROM 45.1 TO 61.8	8"	8"	8"	8"	8"	6"	8"	8"	7 1/2"
FROM 61.9 TO 75.3	8"	8"	8"	8"	7"	6"	8"	8"	6 1/2"
FROM 75.4 TO 91.4	8"	8"	8"	7"	6"	4 1/2"	8"	7"	5 1/2"
FROM 91.5 TO 120.0	8"	8"	8"	5 1/2"	4"	4"	6 1/2"	5"	4 1/2"
FROM 120.1 TO 168.1	8"	8"	8"	4"	3"	3"	4 1/2"	3 1/2"	3 1/2"
FROM 168.2 TO 226.3	7"	5 1/2"	5 1/2"	2 1/2"	-	-	3 1/2"	3"	3"

**ANCHOR SPACING LEGEND**

- (1) Max. ANCHOR SPCG. VALID FOR SPANS OF 7'-6" OR LESS.
- (2) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 7'-6" TO 9'-6".
- (3) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 9'-6" TO Max. ALLOWED.

+ USE ONLY TAPCON ANCHORS AT ALL WALL MOUNT INSTALLATION. USE TAPCON/CALK-IN ANCHORS AT FLOOR/CEILING INSTALLATION. SEE SHEETS 6 OF 6 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BLDGS. MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY MULTIPLYING SPACINGS SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. (NOTE: Min. E. D. FOR CALK-IN ANCHORS IS 2 1/2"). THIS OPERATION SHALL ONLY BE PERFORMED WHEN REQUIRED SPACING RESULTS INTO A MINIMUM OF 3"

ACTUAL E. D. = EDGE DISTANCE	FACTOR
3"	.88
2 1/2"	.71
2"	.50



ANCHORS USED W/TRACK "A" (TOP & BOTTOM) SHALL BE INSTALLED STAGGERED AT Max. SPACINGS INDICATED ON SCHEDULES.

**TABLE 1:**

MINIMUM SEPARATION "S" BETWEEN GLASS AND SHUTTER FOR A GIVEN SHUTTER SPAN "L", FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ABOVE GRADE OF A GIVEN BUILDING. 30'-0" ELEVATION SHALL BE MEASURED AT BOTTOM OF SHUTTER. SEPARATION "S" TO BE MEASURED AS INDICATED ON SECTION D, SHEET 4 OF 6.

SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION "S" (in.)
LESS OR EQUAL THAN 8'-2"	2 5/8"
> 8'-2" TO 12'-11"	3"

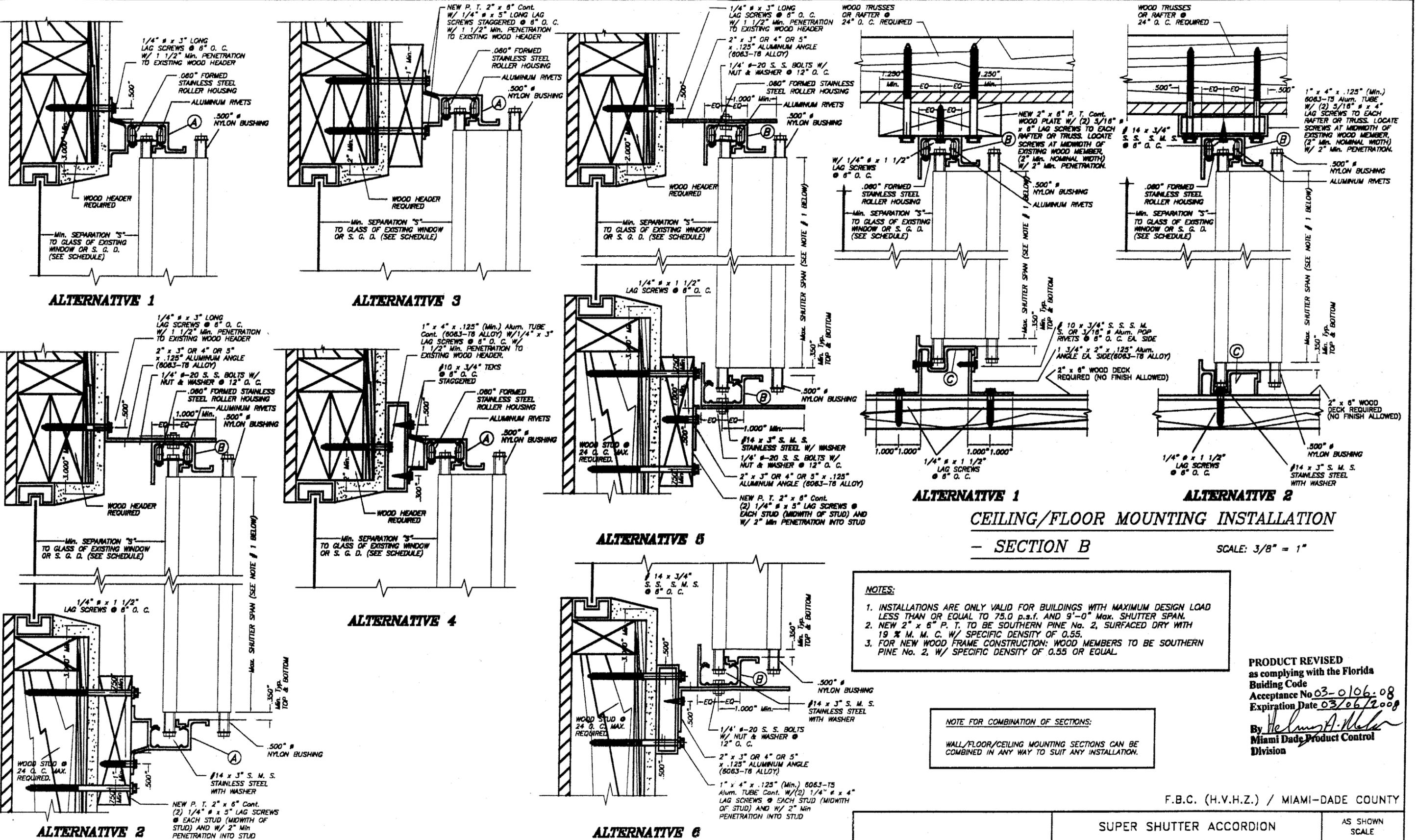
- \* FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ELEVATION OF BUILDING. SEE TABLE 1 FOR MINIMUM SEPARATION TO GLASS FOR SPANS SHORTER THAN THE MAXIMUM ALLOWED SHOWN ON SCHEDULE.
- \*\* FOR SHUTTERS INSTALLED ABOVE 30'-0" ELEVATION OF BUILDING, MEASURED AT BOTTOM OF SHUTTER.

*Handwritten signature and date: 12/19/02*

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 03-0106.08 Expiration Date 03/06/2008  
By *Handwritten signature*  
Miami Dade Product Control Division

F.B.C. (H.V.H.Z.) / MIAMI-DADE COUNTY

<p>TILECO Inc. TILLIT TESTING &amp; ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33168 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167</p>	<p>SUPER SHUTTER ACCORDION</p> <p>HOMESHIELD INDUSTRIES, INC. 3585 E. 10th. COURT HIALEAH, FLORIDA 33013</p>		<p>AS SHOWN SCALE</p> <p>11/7/02 DATE</p> <p>02-528 DRAWING No</p>																	
	<table border="1"> <thead> <tr> <th>REV. NO</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 98-252</td> <td>11/7/02</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 98-252	11/7/02	3	-	-	2	-	-	4	-	-	<p>SHEET 5 OF 8</p>
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	OLD 98-252	11/7/02	3	-	-															
2	-	-	4	-	-															



**ALTERNATIVE 1**

**ALTERNATIVE 3**

**ALTERNATIVE 2**

**ALTERNATIVE 4**

**ALTERNATIVE 5**

**ALTERNATIVE 6**

**ALTERNATIVE 1**

**ALTERNATIVE 2**

**CEILING/FLOOR MOUNTING INSTALLATION**

**- SECTION B**

SCALE: 3/8" = 1"

- NOTES:**
- INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH MAXIMUM DESIGN LOAD LESS THAN OR EQUAL TO 75.0 p.s.f. AND 9'-0" Max. SHUTTER SPAN.
  - NEW 2" x 6" P. T. TO BE SOUTHERN PINE No. 2, SURFACED DRY WITH 19% M. M. C. W/ SPECIFIC DENSITY OF 0.55.
  - FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

**NOTE FOR COMBINATION OF SECTIONS:**  
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 03-0106-08  
Expiration Date 03/06/2008  
By *Helmut A. Walter*  
Miami Dade Product Control Division

F.B.C. (H.V.H.Z.) / MIAMI-DADE COUNTY

**WALL MOUNTING INSTALLATION**  
**- SECTION A**

SCALE: 3/8" = 1"

**INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS**

*Walter A. Tillit Jr.*

**TILECO inc.**  
TILLIT TESTING & ENGINEERING COMPANY  
6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33168  
Phone : (305)871-1530 • Fax : (305)871-1531  
EB-0006719  
WALTER A. TILLIT JR., P. E.  
FLORIDA Lic. # 44167

**SUPER SHUTTER ACCORDION**

**HOMESHIELD INDUSTRIES, INC.**  
3585 E. 10th. COURT  
HIALEAH, FLORIDA 33013

REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 08-252	11/7/02	3	-	-
2	-	-	4	-	-

AS SHOWN SCALE
11/7/02 DATE
02-528 DRAWING No
SHEET 6 OF 6