



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov

Hurricane Manufacturing Corp., Inc.
11850 Miramar Parkway
Miramar, Florida 33025

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: "Omega / Hi-Rise" Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No. 05-283, titled "Omega Accordion Shutter / Hi-Rise", sheets 1 through 8 of 8, prepared by Tilteco, Inc., dated September 13, 2005, last revision #3 dated February 28, 2008, signed and sealed by Walter A. Tillit Jr., 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: 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 NOA # 05-0927.05 and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
 03/27/2008

NOA No. 07-1114.13
Expiration Date: 09/25/2008
Approval Date: 03/27/2008
Page 1

Hurricane Manufacturing Corp., Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #97-0513.02

A. DRAWINGS

1. Drawing No. 96-159, "The Jeff Robinson Shutter Co.", Sheets 1 through 8 of 8, dated 05/29/96, latest revision No. 1, dated 08/28/97, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.

B. TESTS

1. Test report on:
 - 1.) Large Missile Impact Test, per PA 201-94
 - 2.) Cyclic Wind Pressure Test, per PA 203-94
 - 3.) Uniform Static Air Pressure Test Loading, per PA 202-94 of extruded aluminum accordion shutter (96", 108", 120", 144" & 192" spans), prepared by Miami Testing Laboratory, Report No. MTL 16908, dated February 14, 1997, signed and sealed by John M. Bridenstine, P.E.
2. Test report on:
 - 1.) Large Missile Impact Test, per PA 201-94
 - 2.) Cyclic Wind Pressure Test, per PA 203-94
 - 3.) Uniform Static Air Pressure Test Loading, per PA 202-94 of extruded aluminum accordion shutter (96", 108", 120", 144" & 192" spans), prepared by Miami Testing Laboratory, Report No. MTL 16910, dated February 18, 1997, signed and sealed by John M. Bridenstine, P.E.

C. CALCULATIONS

1. Comparative Analysis and Anchor Analysis dated 03/09/97, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.

D. MATERIAL CERTIFICATIONS

1. Mill Certified Test Report issued by Caradon Indalex, with chemical composition for aluminum 6005-T5 Alloy and aluminum 6063-T6 alloy dated 01/03/97.
2. Mill Certified Test Report issued by Caradon Indalex, with chemical composition for aluminum 6005-T5 Alloy dated 01/10/97.
3. Tensile Test Report No. CAE 97010, prepared by Center For Applied Engineering, Inc., dated January 20, 1997, signed and sealed by John M. Bridenstine, P.E.
4. Tensile Test Report No. CAE 97019, prepared by Center For Applied Engineering, Inc., dated January 20, 1997, signed and sealed by John M. Bridenstine, P.E.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0719.02

A. DRAWINGS

1. None.

B. TESTS

1. None.



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 07-1114.13
Expiration Date: 09/25/2008
Approval Date: 03/27/2008

Hurricane Manufacturing Corp., Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. *None.*

D. MATERIAL CERTIFICATIONS

1. *None.*

E. STATEMENTS

1. *Letter by The Jeff Robinson Shutter Company, Inc., dated July 5, 2000, signed by Jeffry T. Robinson, indicating that the approval has not changed.*
2. *Letter by Tilteco Inc., signed and sealed by Walter A. Tillit, Jr., P.E., dated May 4, 2000, certifying that Tilteco, Inc. is still the engineer of record and he continues to be in the engineering business.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-0722.01

A. DRAWINGS:

1. *Drawing No. 03-154, titled " Omega Accordion Shutter / Hi-Rise ", sheets 1 through 8 of 8, prepared by Tilteco, Inc., dated July 08, 2003, last revision #1 dated July 08, 2003, signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS:

1. *None.*

C. CALCULATIONS:

1. *None.*

D. QUALITY ASSURANCE

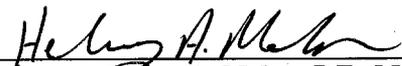
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATION:

1. *None.*

F. OTHERS

1. *Letter from Tilteco, Inc., dated July 7, 2003, signed and sealed by Walter A. tillit Jr., P.E., certifying that drawing #03-154 prepared for Hurricane Manufacturing Corporation is engineering wise identical to the Jeff Robinson Shutter Co. drawing #96-159, except one wall mount header. The new extrusion has the same thickness and the anchor location has not changed.*
2. *Letter from Mr. Jeff Robinson requesting to change his company name from The Jeff Robinson Shutter Company to Hurricane Manufacturing Corporation.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 07-1114.13
Expiration Date: 09/25/2008
Approval Date: 03/27/2008

Hurricane Manufacturing Corp., Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0927.05

A. DRAWINGS

1. *Drawing No. 05-283, titled "Omega Accordion Shutter / Hi-Rise ", sheets 1 through 8 of 8, prepared by Tilteco, Inc., dated September 13, 2005, last revision #1 dated September 13, 2005, signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Anchor Analysis dated 09/23/2005, sheets 1 through 42, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 05-283, titled "Omega Accordion Shutter / Hi-Rise ", sheets 1 through 8 of 8, prepared by Tilteco, Inc., dated September 13, 2005, last revision #3 dated February 28, 2008, signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

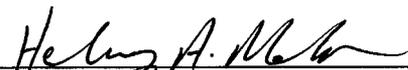
1. *Anchor Analysis dated 09/06/2007, 25 sheets, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E. on 10/24/07.*

D. QUALITY ASSURANCE

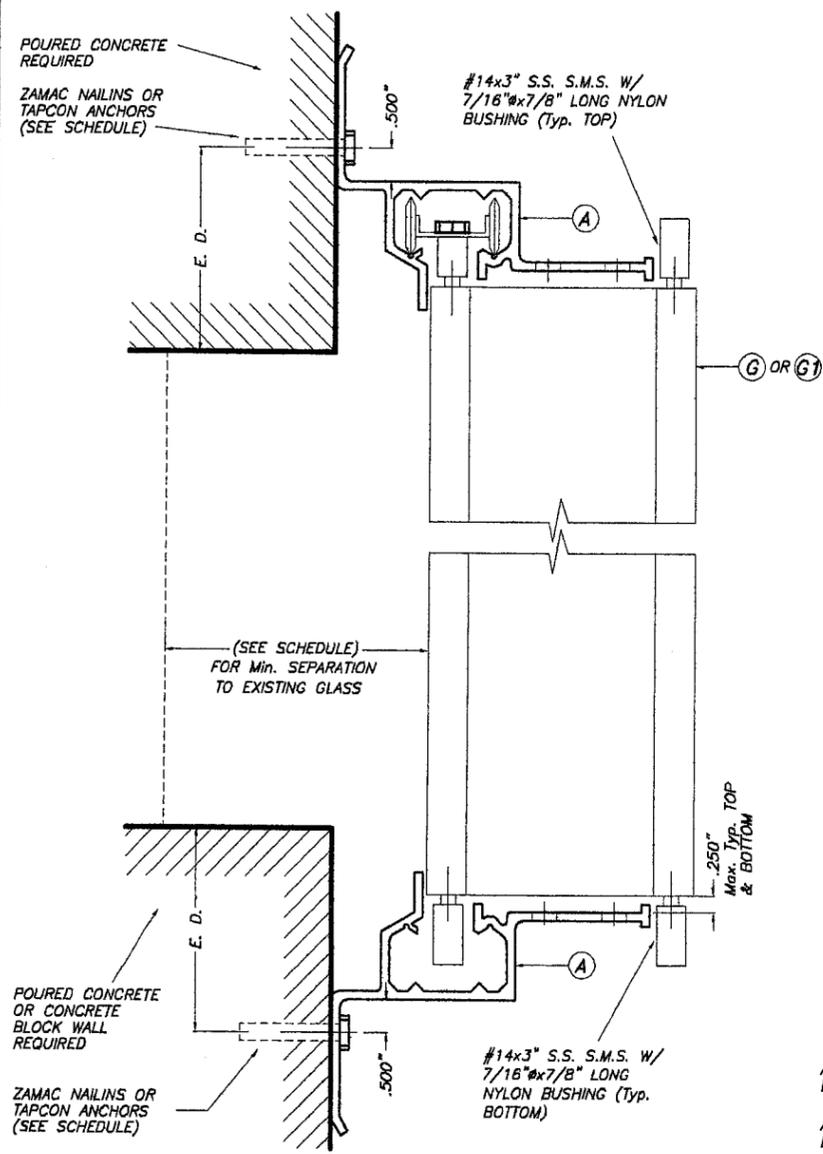
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

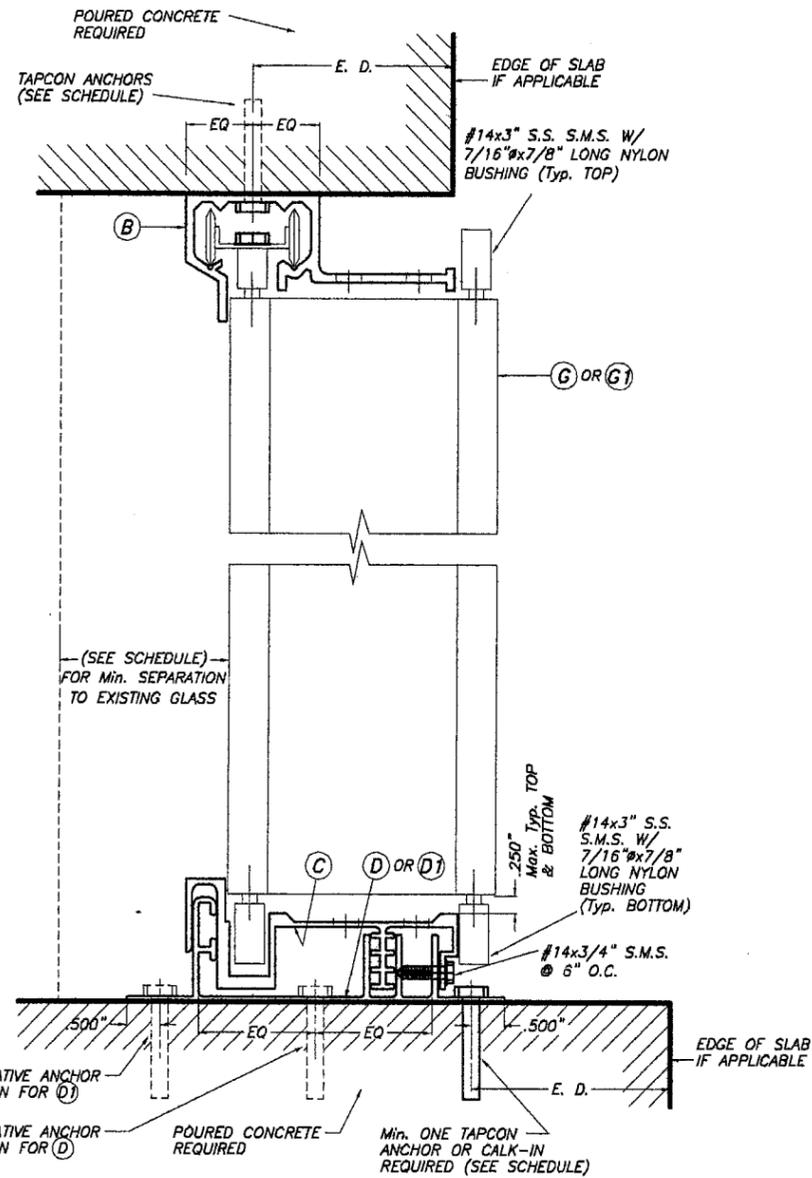
1. *None.*



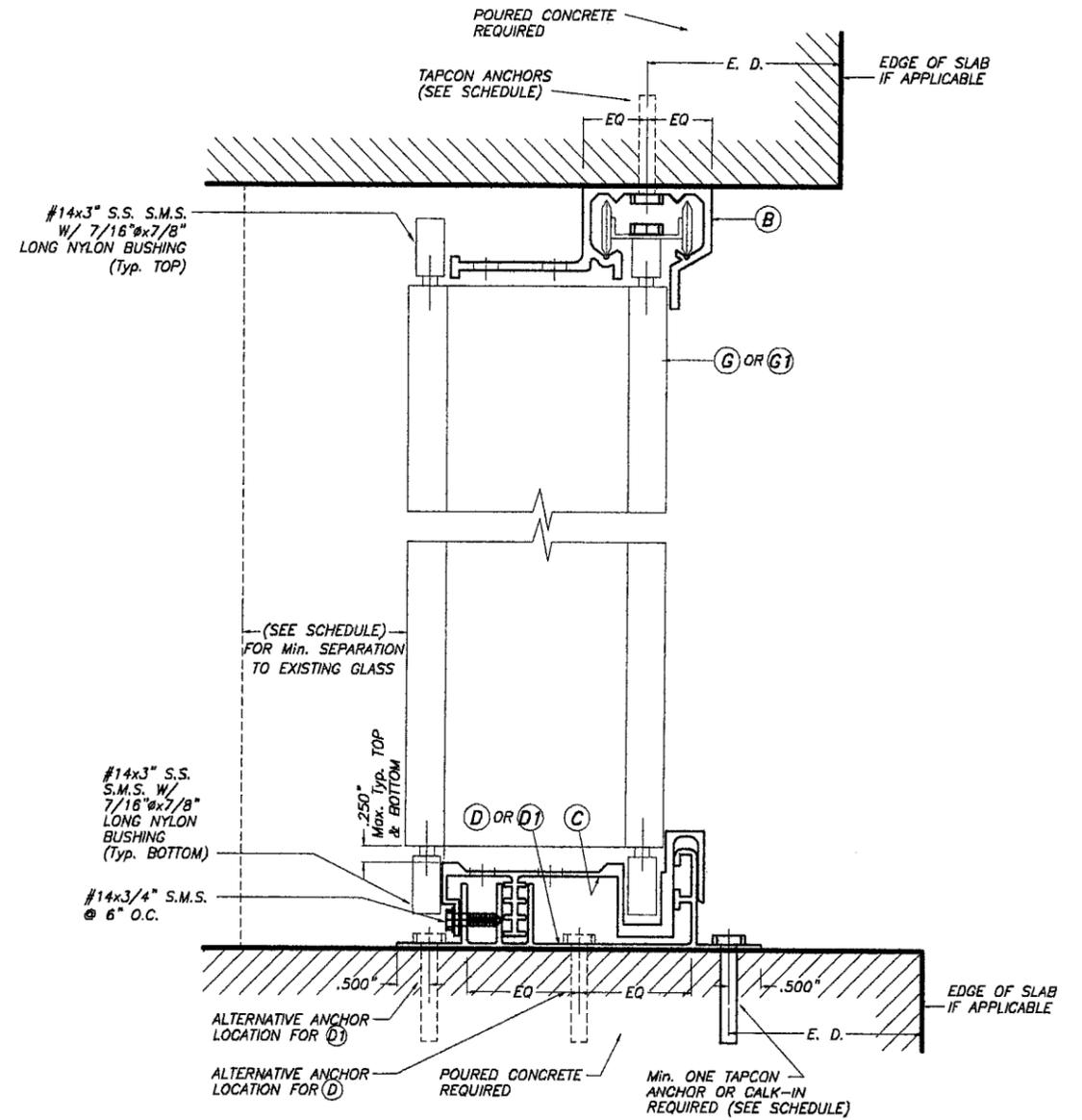
Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 07-1114.13
Expiration Date: 09/25/2008
Approval Date: 03/27/2008



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



CEILING & FLOOR MOUNT. INSTALLATION
- SECTION B. W/ REGULARLY ORIENTED TRACKS TOP & BOTTOM SCALE : 3/8" = 1"



CEILING & FLOOR MOUNT. INSTALLATION
- SECTION B1. W/ REVERSED TRACKS TOP & BOTTOM SCALE : 3/8" = 1"

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 07-1114.13
 Expiration Date 09/25/2008
 By *Helmut A. Meier*
 Miami Building Product Control
 Division

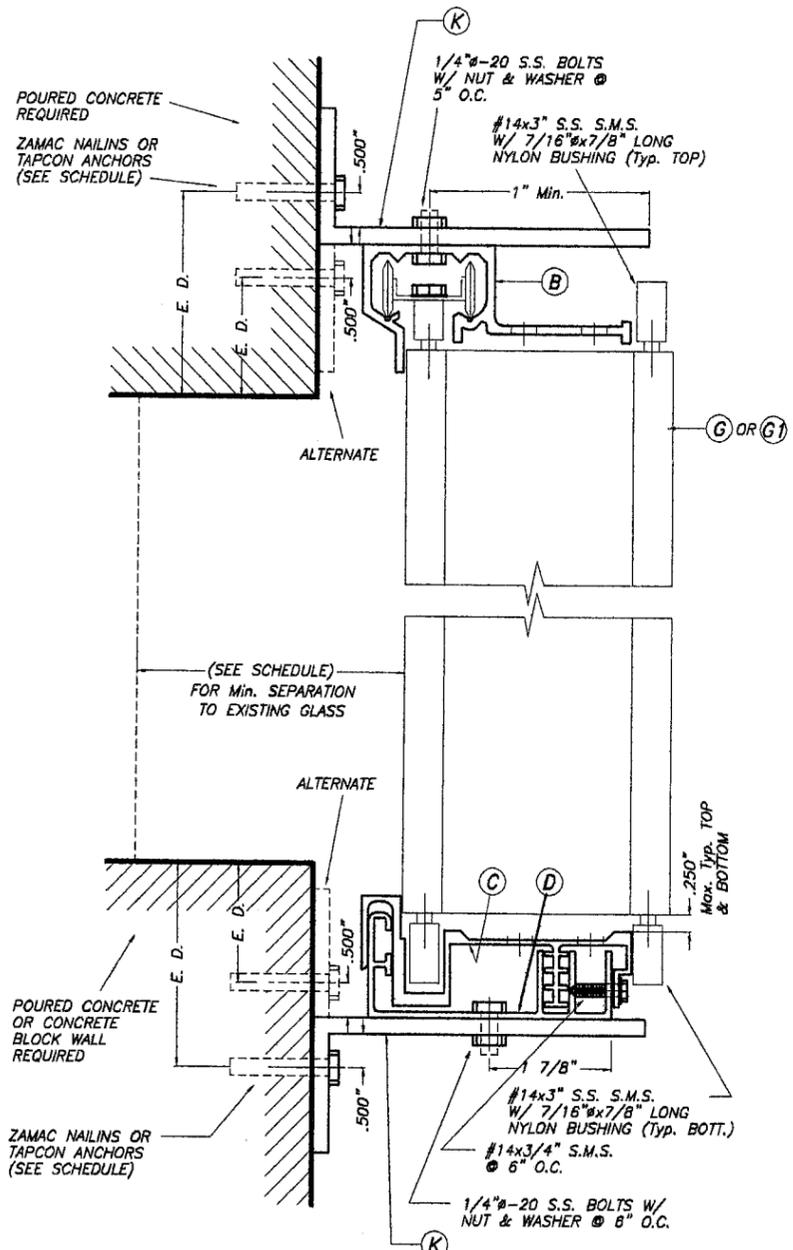
F.B.C. (High Velocity Hurricane Zone)

[Signature]
 FEB 28 2008

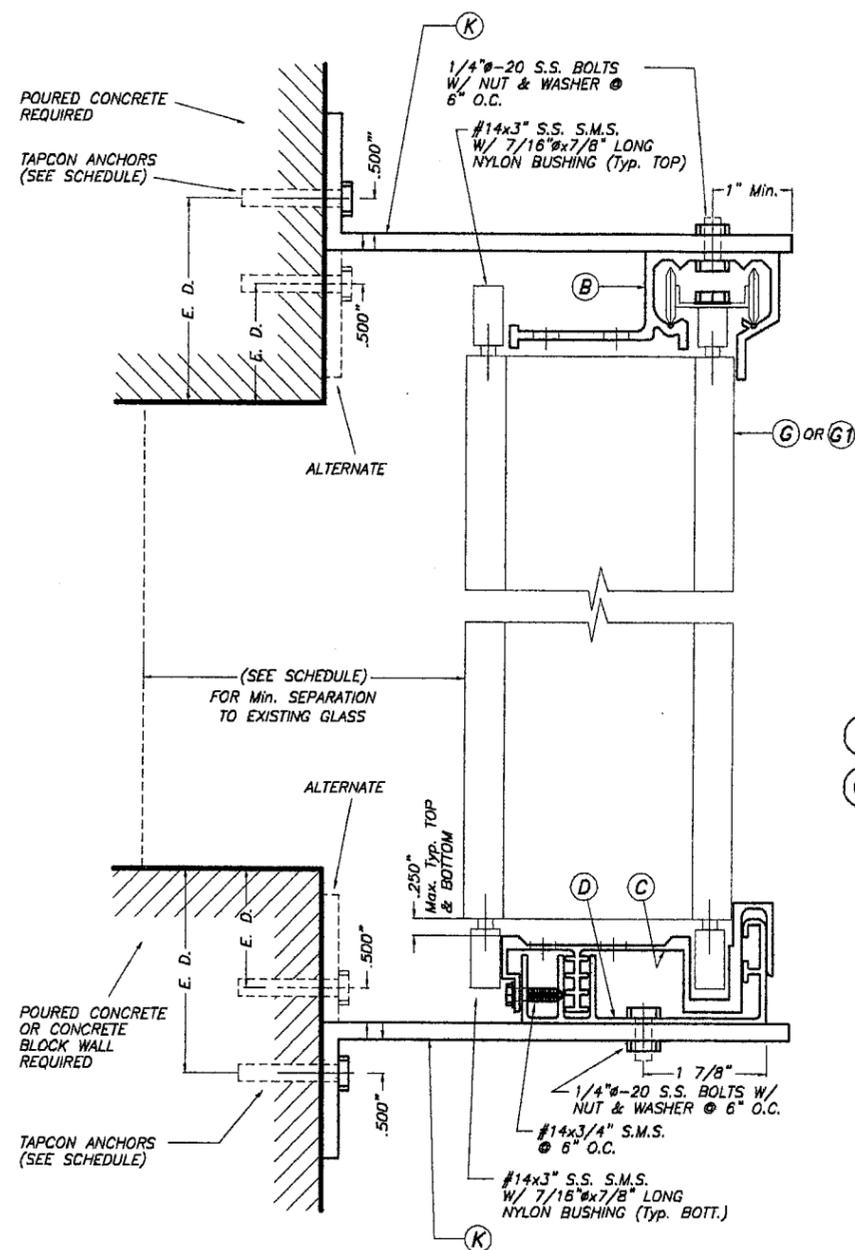
TILECO inc.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33186
 Phone : (305)871-1530 Fax : (305)871-1531
 EB-006719
 WALTER A. TILLIT Jr., P. E.
 FLORIDA Lic. # 44167

OMEGA ACCORDION SHUTTER / HI-RISE		DRAWN BY: J.J.V. / I.A.	
HURRICANE MANUFACTURING, CORP. 11850 MIRAMAR PARKWAY MIRAMAR, FLORIDA 33025 PH: (1800)642-3057, FAX: (954)392-7356		9/13/05 DATE	
		05-283	
		DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No
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2			4

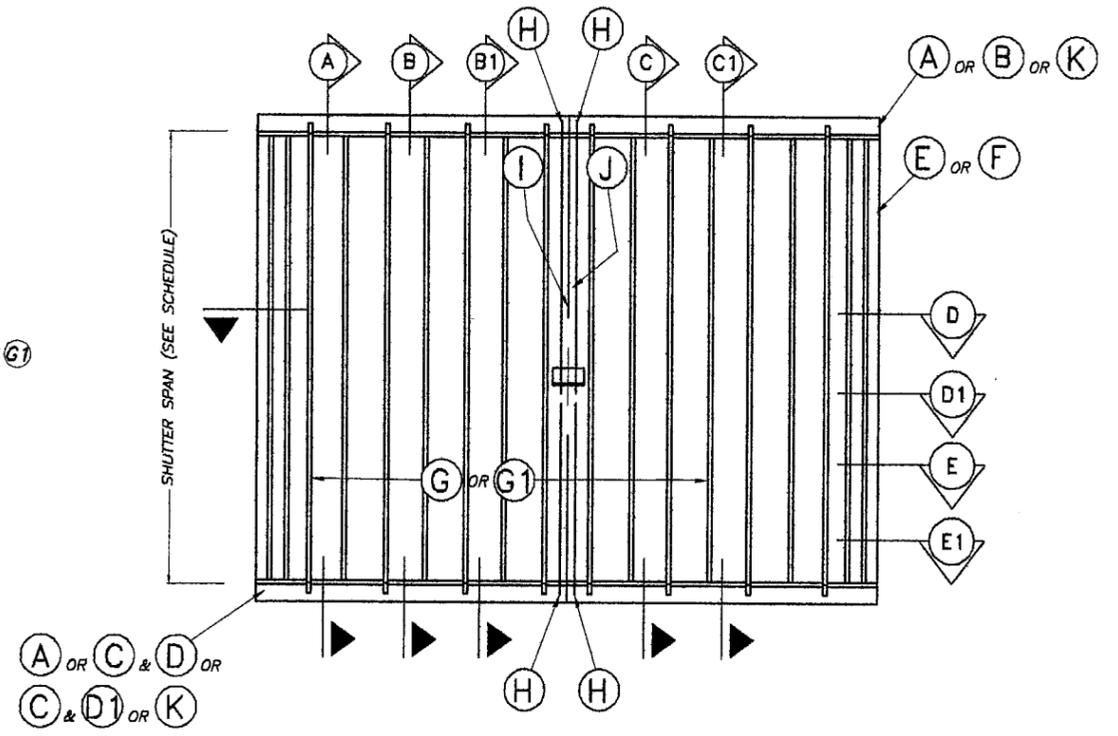
DESCRIPTION	DATE
GENERAL	2/28/08
SHEET 2 OF 8	



WALL MOUNTING INSTALLATION (OFFSET)
- SECTION C. W/ REGULARLY ORIENTED
TRACKS TOP & BOTTOM SCALE : 3/8" = 1"



WALL MOUNTING INSTALLATION (OFFSET)
- SECTION C1. W/ REVERSED TRACKS
TOP & BOTTOM SCALE : 3/8" = 1"



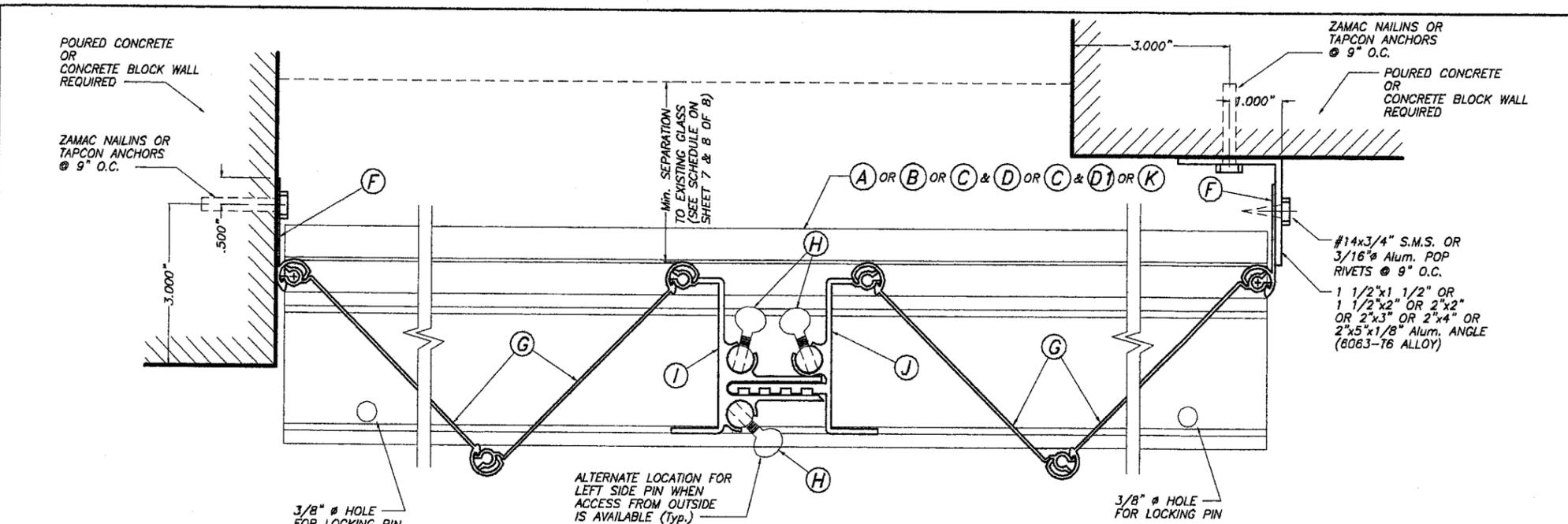
TYPICAL ELEVATION N. T. S.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Approved No. 07-1114.13
 Expiration Date 09/15/2008
 by *Helmy A. Mah*
 Project Engineer
 Division

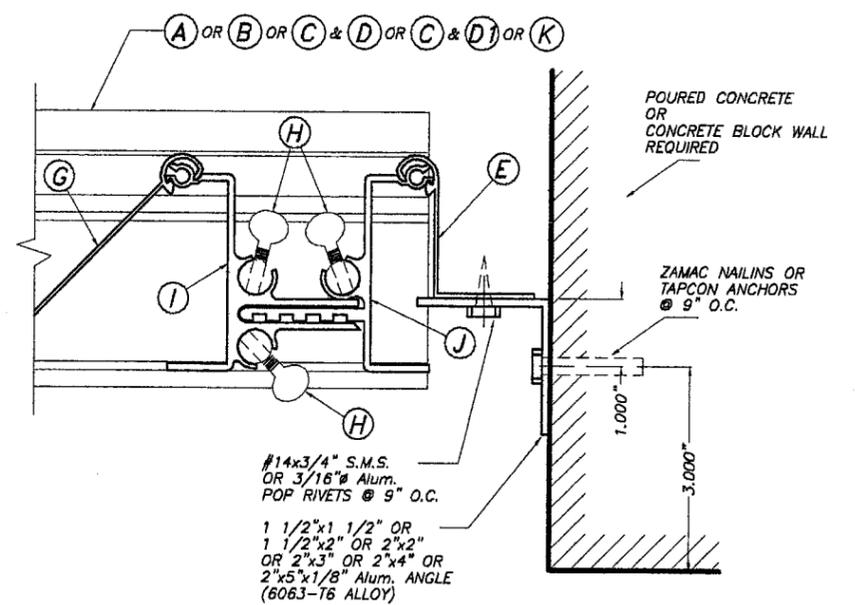
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 FEB 28 2008

F.B.C. (High Velocity Hurricane Zone)

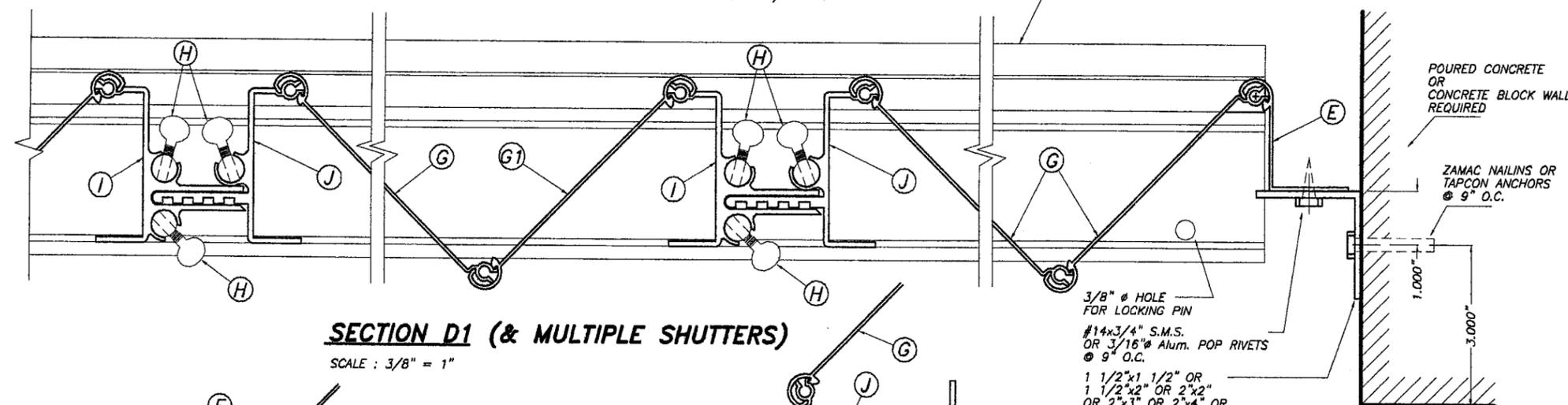
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT, Jr., P. E. FLORIDA Lic. # 44167	OMEGA ACCORDION SHUTTER / HI-RISE	DRAWN BY: J.J.V. / I.A.																		
	HURRICANE MANUFACTURING, CORP. 11850 MIRAMAR PARKWAY MIRAMAR, FLORIDA 33025 PH:(1800)642-3057, FAX:(954)392-7356	9/13/05 DATE																		
		05-283 DRAWING No																		
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
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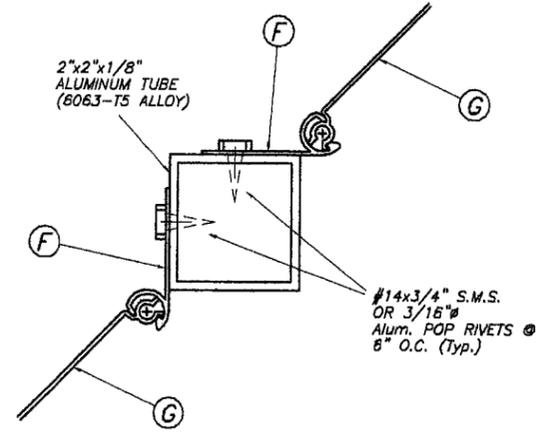
SECTION D
SCALE : 3/8" = 1"



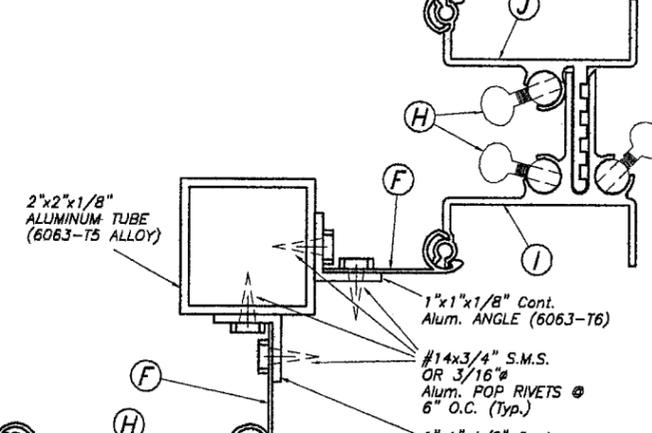
ONE SIDED SECTION: END CONNECTION DETAIL
SCALE : 3/8" = 1"



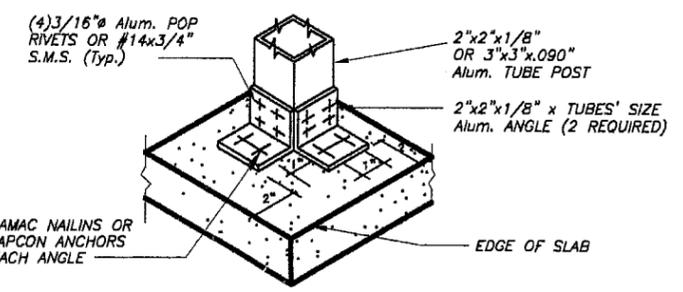
SECTION D1 (& MULTIPLE SHUTTERS)
SCALE : 3/8" = 1"



SECTION E
SCALE : 3/8" = 1"



SECTION E1
SCALE : 3/8" = 1"



ISOMETRIC (CORNER POST) (Typ. AT TOP & BOTTOM SLABS)

FEB 28 2008

NOTE :
SECTIONS E & E1 CAN BE COMBINED TO SUIT ANY INSTALLATION.

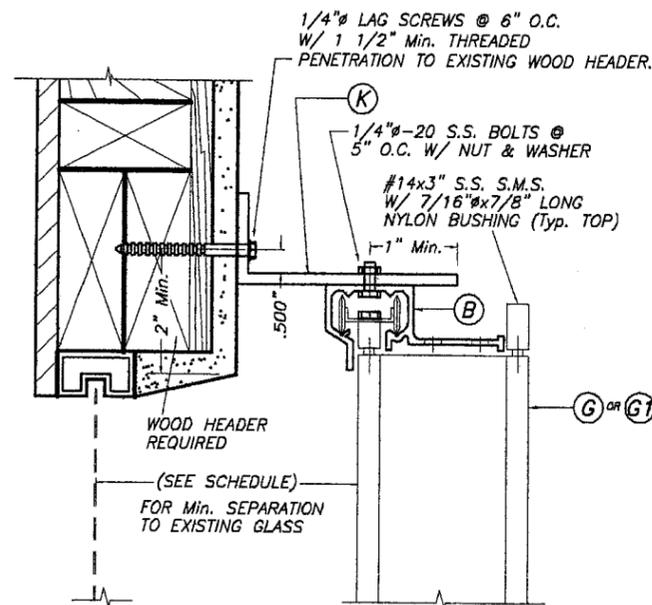
PRODUCT REVISED
in compliance with the Florida Building Code
Asymptote No. 07-1114.13
Revision Date: 09/25/2008
By: *Helmy A. Miller*
Product Control Division

F.B.C. (High Velocity Hurricane Zone)

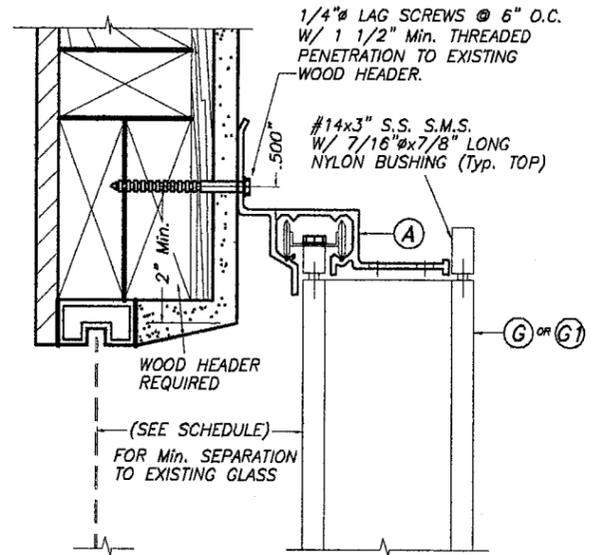
TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33186
Phone : (305)871-1530 . Fax : (305)871-1531
EB-0006719
WALTER A. TILLIT JR. P. E.
FLORIDA Lic. # 44167

OMEGA ACCORDION SHUTTER / HI-RISE		DRAWN BY: J.J.V. / L.A.	
HURRICANE MANUFACTURING, CORP.		DATE 9/13/05	
11850 MIRAMAR PARKWAY MIRAMAR, FLORIDA 33025 PH:(1800)642-3057, FAX:(954)392-7356		DRAWING No 05-283	
REV. NO	DESCRIPTION	DATE	REV. No
1	GLD 03-154	9/13/05	3
2			4

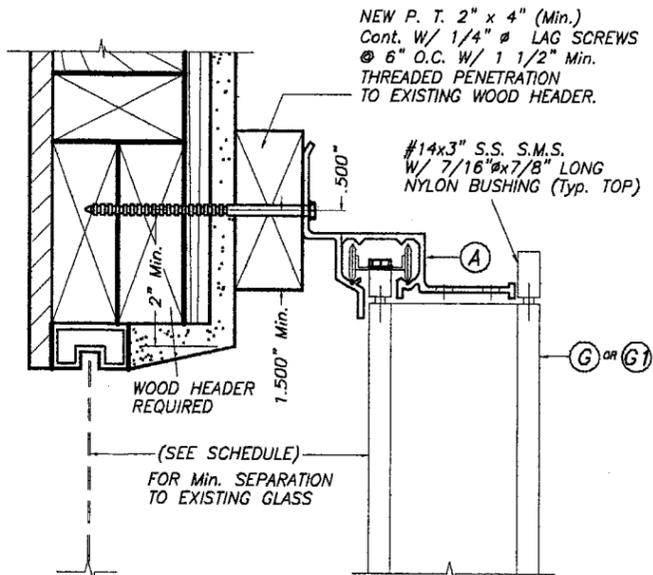
DATE 9/13/05	DRAWING No 05-283
SHEET 4 OF 8	



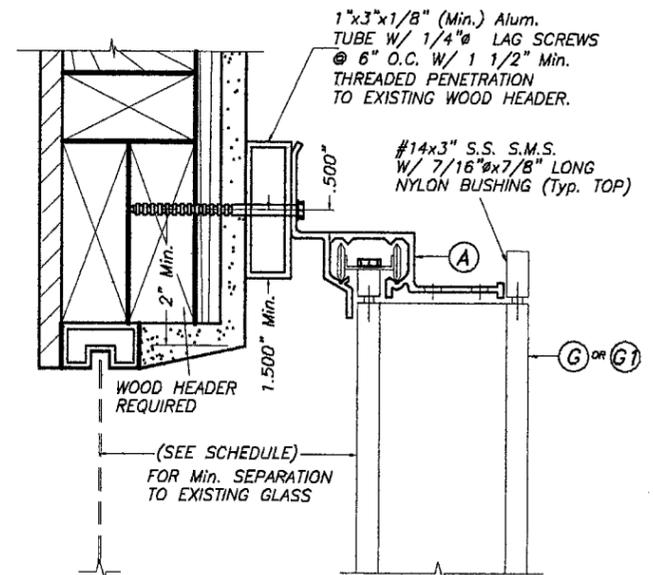
ALTERNATIVE 1



ALTERNATIVE 3



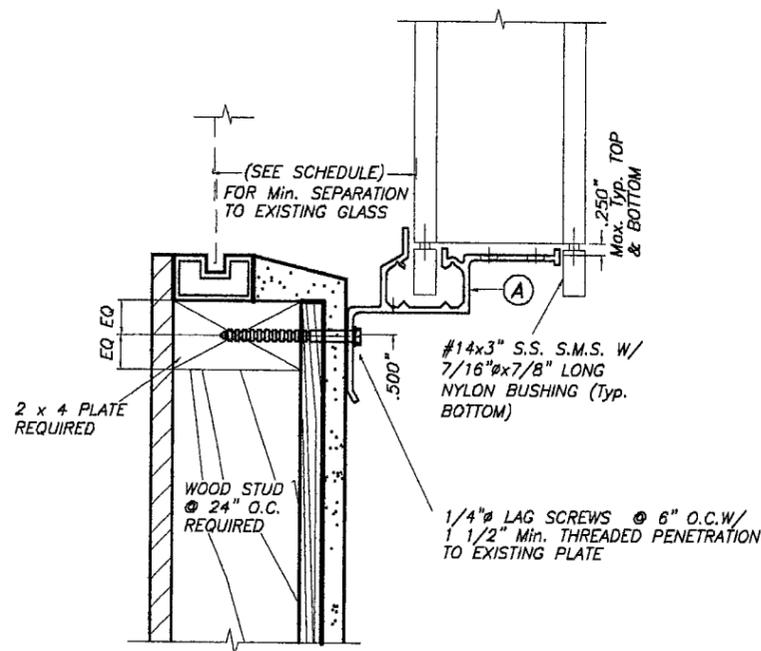
ALTERNATIVE 4



ALTERNATIVE 5

WALL MOUNTING INSTALLATION - SECTIONS A

SCALE: 1/4" = 1"



ALTERNATIVE 2

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

- NOTES:**
- INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH 75 p.s.f. Max DESIGN LOADS 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.

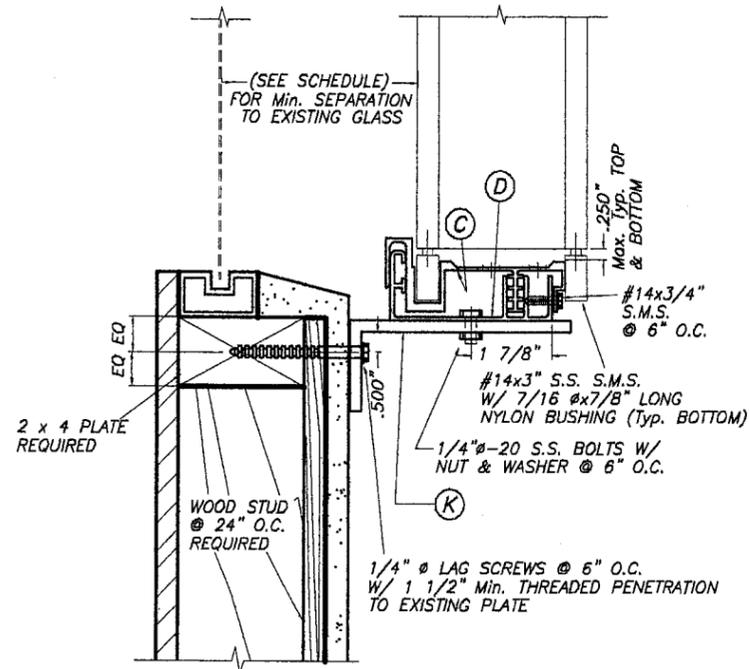
**INSTALLATION DETAILS ON EXISTING
WOOD FRAME BUILDINGS**

PRODUCT REVISED
as complying with the Florida
Building Code
As per No. 07-1114.13
Installation Date 09/25/2008
R. Helwig
Product Control
Division

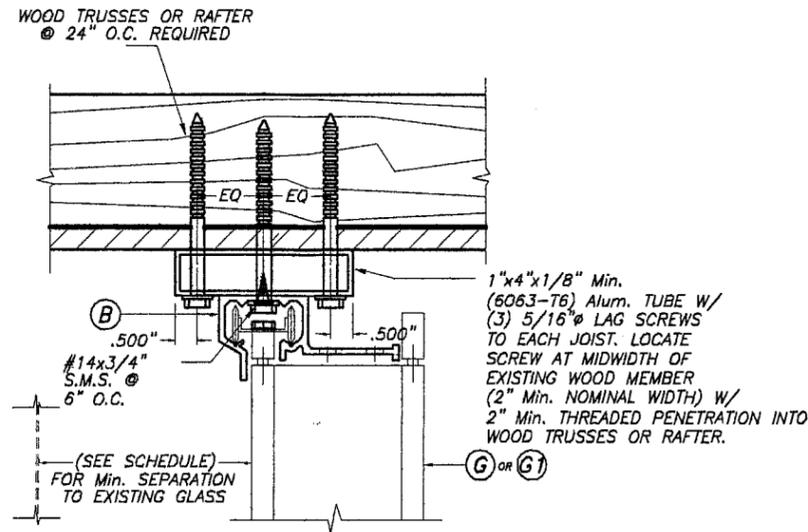
FEB 28 2008

F.B.C. (High Velocity Hurricane Zone)

 TILTECO inc. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33168 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT, Jr. P. E. FLORIDA Lic. # 44167	OMEGA ACCORDION SHUTTER / HI-RISE	DRAWN BY: J.J.V. / I.A.																		
	HURRICANE MANUFACTURING, CORP. 11850 MIRAMAR PARKWAY MIRAMAR, FLORIDA 33025 PH: (1800)642-3057, FAX: (954)392-7356	9/13/05 DATE																		
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	GLD 03-154	9/13/05	3	GENERAL	2/28/08															
2			4																	

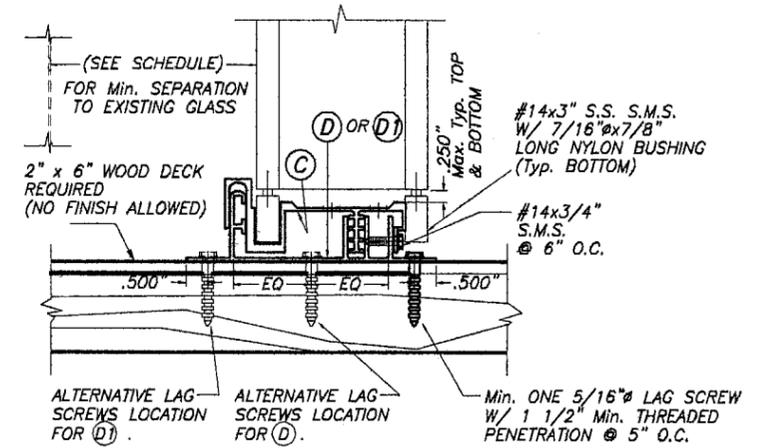


ALTERNATIVE 6



ALTERNATIVE 1

(LIMITED TO +60.0, -66.0 p.s.f. DESIGN LOAD AND UP TO 9'-0" Max. SHUTTER LENGTH)



ALTERNATIVE 2

WALL MOUNTING INSTALLATION- SECTIONS A

SCALE : 1/4" = 1"

CEILING & REMOVABLE FLOOR MOUNTING INSTALLATION - SECTIONS B

SCALE : 1/4" = 1"

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

- NOTES:
- INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH 75 p.s.f. Max. DESIGN LOADS AND 9'-0" Max. SHUTTER SPAN (EXCEPT AS NOTED)
 - FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

INSTALLATION DETAILS ON EXISTING WOOD FRAME BUILDINGS

PRODUCT REVISED
as complying with the Florida
Building Code
Revision No. 07-1114.13
Expiration Date 09/25/2008
By *Helmut A. Tillit*
Miramar Florida, Product Control
Division

F.B.C. (High Velocity Hurricane Zone)

[Signature]
FEB 28 2008

 TILTECO inc. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33168 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167	OMEGA ACCORDION SHUTTER / HI-RISE	DRAWN BY: J.J.V. / I.A.																		
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	OLD 03-154	9/13/05	3	GENERAL	2/28/08															
2			4																	

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

(VALID FOR SECTIONS A, B & C ON SHEET 2 & 3 OF 8).

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 TO GLASS (in.)	
		*	**
35.0	16'-0"	3 1/16"	3"
40.0	16'-0"	3 1/16"	3"
45.0	15'-7"	3 1/16"	3"
47.8	15'-4"	3 1/16"	3"
49.0	15'-3"	3 1/16"	3"
50.5	15'-1"	3 1/16"	3"
52.0	15'-0"	3 1/16"	3"
52.4	15'-0"	3 1/16"	3"
55.0	14'-10"	3 1/16"	3"
55.2	14'-9"	3 1/16"	3"
55.6	14'-9"	3 1/16"	3"
57.2	14'-7"	3 1/16"	3"
58.6	14'-5"	3 1/16"	3"
58.8	14'-5"	3 1/16"	3"
59.5	14'-3"	3 1/16"	3"
59.7	14'-3"	3 1/16"	3"
61.5	14'-1"	3 1/16"	3"
61.8	14'-0"	3 1/16"	3"
61.9	14'-0"	3 1/16"	3"
63.7	13'-10"	3 1/16"	3"
66.9	13'-6"	3 1/16"	3"
67.0	13'-6"	3 1/16"	3"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
67.5	13'-5"	3 1/16"	3"
70.1	13'-2"	3 1/16"	3"
71.1	13'-1"	3 1/16"	3"
71.4	13'-1"	3 1/16"	3"
71.5	13'-0"	3 1/16"	3"
72.9	12'-11"	3 1/16"	3"
75.1	12'-9"	3 1/16"	3"
75.2	12'-9"	3 1/16"	3"
75.3	12'-8"	3 1/16"	3"
77.0	12'-7"	3 1/16"	3"
77.5	12'-6"	3 1/16"	3"
78.8	12'-5"	3 1/16"	3"
80.7	12'-3"	3 1/16"	3"
81.5	12'-3"	3 1/16"	3"
82.5	12'-2"	3 1/16"	3"
83.4	12'-1"	3 1/16"	3"
86.2	11'-10"	3 1/16"	3"
86.7	11'-10"	3 1/16"	3"
86.8	11'-10"	3 1/16"	3"
88.5	11'-9"	3 1/16"	3"
90.3	11'-7"	3 1/16"	3"
90.8	11'-7"	3 1/16"	3"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
91.4	10'-6"	3 1/16"	3"
92.7	11'-5"	3 1/16"	3"
93.8	11'-5"	3 1/16"	3"
94.8	11'-4"	3 1/16"	3"
96.6	11'-3"	3 1/16"	3"
96.8	11'-2"	3 1/16"	3"
97.7	11'-2"	3 1/16"	3"
100.5	11'-0"	3 1/16"	3"
101.5	10'-11"	3 1/16"	3"
103.7	10'-10"	3 1/16"	3"
106.5	10'-8"	3 1/16"	3"
108.8	10'-7"	3 1/16"	3"
110.6	10'-6"	3 1/16"	3"
111.0	10'-6"	3 1/16"	3"
114.1	10'-4"	3 1/16"	3"
116.5	10'-3"	3 1/16"	3"
116.9	10'-2"	3 1/16"	3"
117.6	10'-2"	3 1/16"	3"
119.7	10'-1"	3 1/16"	3"
120.0	10'-1"	3 1/16"	3"
121.2	10'-0"	2 7/16"	1 15/16"
122.5	10'-0"	2 7/16"	1 15/16"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
125.3	9'-10"	2 7/16"	1 15/16"
125.8	9'-10"	2 7/16"	1 15/16"
126.7	9'-10"	2 7/16"	1 15/16"
129.6	9'-8"	2 7/16"	1 15/16"
130.9	9'-8"	2 7/16"	1 15/16"
131.6	9'-7"	2 7/16"	1 15/16"
134.3	9'-6"	2 7/16"	1 15/16"
136.2	9'-5"	2 7/16"	1 15/16"
137.9	9'-5"	2 7/16"	1 15/16"
140.7	9'-4"	2 7/16"	1 15/16"
142.8	9'-3"	2 7/16"	1 15/16"
143.5	9'-2"	2 7/16"	1 15/16"
147.0	9'-1"	2 7/16"	1 15/16"
148.4	9'-1"	2 7/16"	1 15/16"
152.6	8'-10"	2 7/16"	1 3/4"
153.1	8'-10"	2 7/16"	1 3/4"
156.8	8'-7"	2 7/16"	1 3/4"
157.5	8'-7"	2 7/16"	1 3/4"
157.8	8'-7"	2 7/16"	1 3/4"
160.8	8'-5"	2 7/16"	1 3/4"
161.7	8'-4"	2 7/16"	1 3/4"
164.4	8'-3"	2 7/16"	1 3/4"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
165.2	8'-2"	2 7/16"	1 3/4"
168.1	8'-0"	2 7/16"	1 3/4"
168.7	8'-0"	2 7/16"	1 3/4"
170.0	7'-11"	2 7/16"	1 3/4"
175.6	7'-8"	2 7/16"	1 3/4"
176.6	7'-8"	2 7/16"	1 3/4"
180.3	7'-6"	2 7/16"	1 3/4"
188.0	7'-2"	2 7/16"	1 3/4"
195.0	6'-11"	2 7/16"	1 3/4"

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. †
(VALID FOR SECTIONS A, B & C ON SHEET 2 & 3 OF 8).

MAXIMUM DESIGN LOAD "W" (p.s.f.)	SECTION A ONLY			SECTION B			SECTION C								
	WALL MOUNTING INSTALLATION AT TOP & BOTTOM (TO CONCRETE)			WALL MOUNTING INSTALLATION AT BOTTOM (TO MASONRY)			FLOOR/CEILING MOUNTING INSTALLATION TOP & BOTTOM (TO CONCRETE)			WALL MOUNTING INSTALLATION AT TOP & BOTTOM (TO CONCRETE)			WALL MOUNTING INSTALLATION AT BOTTOM (TO MASONRY)		
	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3
FROM 35.0 TO 61.8	6"	6"	6"	6"	6"	5 1/2"	6"	6"	4"	6"	6"	6"	6"	6"	6"
	6"	6"	6"	6"	6"	3"	6"	6"	3 1/2"	6"	6"	6"	6"	6"	4"
FROM 61.9 TO 75.3	6"	6"	5"	6"	6"	3 1/2"	6"	5 1/2"	3 1/2"	6"	6"	6"	6"	6"	6"
	6"	6"	6"	6"	5 1/2"	5"	6"	5"	3 1/2"	6"	6"	6"	6"	5 1/2"	3 1/2"
FROM 75.4 TO 91.4	6"	6"	5"	6"	6"	3 1/2"	6"	4 1/2"	3 1/2"	6"	6"	6"	6"	6"	6"
	6"	6"	6"	6"	4"	5"	6"	4"	3 1/2"	6"	6"	6"	6"	4 1/2"	3 1/2"
FROM 91.5 TO 120.0	6"	4"	N/A	6"	3"	N/A	5 1/2"	3 1/2"	5"	6"	6"	5 1/2"	6"	5 1/2"	4 1/2"
	6"	6"	4 1/2"	6"	N/A	N/A	5 1/2"	3"	2 1/2"	6"	6"	6"	6"	3 1/2"	3"
FROM 120.1 TO 168.1	6"	N/A	N/A	6"	N/A	N/A	4"	4 1/2"	N/A	6"	5"	5"	6"	4"	4"
	6"	3 1/2"	3 1/2"	3 1/2"	N/A	N/A	4"	2 1/2"	2 1/2"	6"	6"	6"	4"	3"	3"
FROM 168.2 TO 195.0	3"	N/A	N/A	4"	N/A	N/A	3 1/2"	4 1/2"	N/A	6"	5"	N/A	5"	4"	N/A
	5 1/2"	3 1/2"	N/A	N/A	N/A	N/A	3"	2 1/2"	N/A	6"	6"	N/A	3 1/2"	5"	N/A

MAXIMUM ANCHOR SPACING LEGEND
(EXCEPT AS INDICATED ON †, †† NOTES BELOW)

WALL MOUNTING	FLOOR/CEILING MOUNTING
1/4" ZAMAC NAILIN	1/4" TAPCON (TOP & BOTTOM)
1/4" TAPCON	1/4" CALK-IN (BOTTOM)

MIN. ANCHORS SPACING SCHEDULE

1/4" ANCHORS TYPE	MIN. SPACING
TAPCONS	3.0"
CALK-IN	2.5"
ZAMAC NAILIN	2.5"

† MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING (THIS OPERATION IS NOT ALLOWED FOR 5/16" TAPCONS PER †, †† NOTES) BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS.

ACTUAL E. D. = EDGE DISTANCE	FACTOR	
	TAPCON/ZAMAC NAILIN	CALK-IN
3"	.86	.75
2 1/2"	.71	.50
2"	.50"	-

(NOTE: Min. E. D. FOR CALK-IN ANCHORS IS 2 1/2"). FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE AT MIN. ANCHORS SPACING SCHEDULE.

†† SEE SHEETS 5 & 6 OF 8 FOR ANCHORS TYPE SPACING FOR INSTALLATIONS INTO WOOD FRAME BLDGS. SEE ANCHORS LEGEND FOR ANCHORS TYPE FOR A GIVEN SPACING, LOAD & SHUTTER SPAN.

NOTES ON "p.s.f." VS SPAN SCHEDULE

* MINIMUM SEPARATION BETWEEN GLASS & SHUTTER FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ELEVATION OF BUILDING MEASURED AT BOTTOM OF SHUTTER. 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. SEPARATION TO BE MEASURED AS INDICATED ON SECTION D, SHEET 4 OF 8.

TABLE 1:

SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION (in.)
LESS OR EQUAL THAN 10'-0"	2 7/16"
> 10'-0" TO 16'-0"	3 1/16"

PRODUCT REVISED as complying with the Florida Building Code
 Adoption No. 07-1114.13
 Expiration Date 09/25/2008
 Helmut A. Tillit
 TILLIT TESTING & ENGINEERING COMPANY
 Division

FEB 28 2008

F.B.C. (High Velocity Hurricane Zone)

- ANCHOR SPACING LEGEND**
- (1) Max. ANCHOR SPCG. VALID FOR SPANS OF 5'-0" OR LESS.
 - (2) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 5'-0" TO 8'-6".
 - (3) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 8'-6" TO Max. ALLOWED.

† THIS SPACING IS ONLY VALID WHEN INSTALLATION IS PERFORMED USING A 5/16" TAPCON W/ 1 1/4" Min. EMBEDMENT AS MANUFACTURED BY ELCO TEXTRON, INC.
 †† THIS SPACING IS ONLY VALID WHEN INSTALLATION IS PERFORMED USING A 5/16" XL TAPCON W/ 2 1/4" Min. EMBEDMENT AS MANUFACTURED BY ITW/BUILDEX, INC.

TILECO inc.

TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33168
 Phone: (305)871-1530 Fax: (305)871-1531
 EB-0006719
 WALTER A. TILLIT Jr. P. E.
 FLORIDA Lic. # 44167

HURRICANE MANUFACTURING, CORP.

11850 MIRAMAR PARKWAY
 MIRAMAR, FLORIDA 33025
 PH:(1800)642-3057, FAX:(954)392-7356

REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 03-154	8/13/05	3	†† NOTE REV.	2/28/08
2	ANCHOR SCHEDULES	9/6/07	4	-	-

OMEGA ACCORDION SHUTTER / HI-RISE

DRAWN BY: J.J.V. / I.A.
 DATE: 9/13/05
 05-283
 DRAWING No: SHEET 7 OF 8

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

(VALID FOR SECTIONS B1 & C1 ON SHEET 2 & 3 OF 8).

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 TO GLASS (in.)	
		*	**
35.0	16'-0"	3 3/16"	3"
40.0	15'-7"	3 3/16"	3"
45.0	15'-2"	3 3/16"	3"
47.8	14'-11"	3 3/16"	3"
49.0	14'-0"	3 3/16"	3"
50.5	14'-9"	3 3/16"	3"
52.0	14'-7"	3 3/16"	3"
52.4	14'-7"	3 3/16"	3"
55.0	14'-5"	3 3/16"	3"
55.2	14'-5"	3 3/16"	3"
55.6	14'-5"	3 3/16"	3"
57.2	14'-3"	3 3/16"	3"
58.6	14'-2"	3 3/16"	3"
58.8	14'-2"	3 3/16"	3"
59.5	14'-2"	3 3/16"	3"
59.7	14'-2"	3 3/16"	3"
61.5	14'-0"	3 3/16"	3"
61.8	14'-0"	3 3/16"	3"
61.9	14'-0"	3 3/16"	3"
63.7	13'-11"	3 3/16"	3"
66.9	13'-9"	3 3/16"	3"
67.0	13'-9"	3 3/16"	3"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
67.5	13'-8"	3 3/16"	3"
70.1	13'-7"	3 3/16"	3"
71.1	13'-6"	3 3/16"	3"
71.4	13'-6"	3 3/16"	3"
71.5	13'-6"	3 3/16"	3"
72.9	13'-5"	3 3/16"	3"
75.1	13'-4"	3 3/16"	3"
75.2	13'-4"	3 3/16"	3"
75.3	13'-4"	3 3/16"	3"
77.0	13'-3"	3 3/16"	3"
77.5	13'-3"	3 3/16"	3"
78.8	13'-2"	3 3/16"	3"
80.7	13'-1"	3 3/16"	3"
81.5	13'-1"	3 3/16"	3"
82.5	13'-0"	3 3/16"	3"
83.4	13'-0"	3 3/16"	3"
86.2	12'-11"	3 3/16"	3"
86.7	12'-10"	3 3/16"	3"
86.8	12'-10"	3 3/16"	3"
88.5	12'-10"	3 3/16"	3"
90.3	12'-8"	3 3/16"	3"
90.8	12'-8"	3 3/16"	3"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
91.4	12'-8"	3 3/16"	3"
92.7	12'-7"	3 3/16"	3"
93.8	12'-6"	3 3/16"	3"
94.8	12'-5"	3 3/16"	3"
96.6	12'-3"	3 3/16"	3"
96.8	12'-3"	3 3/16"	3"
97.7	12'-3"	3 3/16"	3"
100.5	12'-1"	3 3/16"	3"
101.5	12'-0"	2 13/16"	2 13/16"
103.7	11'-10"	2 13/16"	2 13/16"
106.5	11'-8"	2 13/16"	2 13/16"
108.8	11'-7"	2 13/16"	2 13/16"
110.6	11'-6"	2 13/16"	2 13/16"
111.0	11'-6"	2 13/16"	2 13/16"
114.1	11'-4"	2 13/16"	2 13/16"
116.5	11'-2"	2 13/16"	2 13/16"
116.9	11'-2"	2 13/16"	2 13/16"
117.6	11'-2"	2 13/16"	2 13/16"
119.7	11'-0"	2 13/16"	2 13/16"
120.0	11'-0"	2 13/16"	2 13/16"
121.2	11'-0"	2 13/16"	2 13/16"
122.5	10'-11"	2 13/16"	2 13/16"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
125.3	10'-9"	2 13/16"	2 13/16"
125.8	10'-9"	2 13/16"	2 13/16"
126.7	10'-9"	2 13/16"	2 13/16"
129.6	10'-7"	2 13/16"	2 13/16"
130.9	10'-7"	2 13/16"	2 13/16"
131.6	10'-6"	2 13/16"	2 13/16"
134.3	10'-5"	2 13/16"	2 13/16"
136.2	10'-4"	2 13/16"	2 13/16"
137.9	10'-3"	2 13/16"	2 13/16"
140.7	10'-2"	2 13/16"	2 13/16"
142.8	10'-1"	2 13/16"	2 13/16"
143.5	10'-1"	2 13/16"	2 13/16"
147.0	10'-0"	2 3/4"	2 1/4"
148.4	9'-11"	2 3/4"	2 1/4"
152.6	9'-9"	2 3/4"	2 1/4"
153.1	9'-9"	2 3/4"	2 1/4"
156.8	9'-8"	2 3/4"	2 1/4"
157.5	9'-7"	2 3/4"	2 1/4"
157.8	9'-7"	2 3/4"	2 1/4"
160.8	9'-6"	2 3/4"	2 1/4"
161.7	9'-6"	2 3/4"	2 1/4"
164.4	9'-5"	2 3/4"	2 1/4"

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL SPAN "L" (ft.)	MINIMUM SEPARATION TO GLASS (in.)	
		*	**
165.2	9'-5"	2 3/4"	2 1/4"
168.1	9'-4"	2 3/4"	2 1/4"
168.7	9'-4"	2 3/4"	2 1/4"
170.0	9'-3"	2 3/4"	2 1/4"
175.6	9'-1"	2 3/4"	2 1/4"
176.6	9'-1"	2 3/4"	2 1/4"
180.3	9'-0"	2 3/4"	2"
188.0	8'-7"	2 3/4"	2"
195.0	8'-4"	2 3/4"	2"

NOTES ON "p.s.f." VS SPAN SCHEDULE

* MINIMUM SEPARATION BETWEEN GLASS & SHUTTER FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ELEVATION OF BUILDING MEASURED AT BOTTOM OF SHUTTER. 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.

SEPARATION "S" TO BE MEASURED AS INDICATED ON SECTION D, SHEET 4 OF 8.

TABLE 1:

SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION "S" (in.)
LESS OR EQUAL THAN 10'-0"	2 3/4"
> 10'-0" TO 12'-0"	2 13/16"
> 12'-0" TO 16'-0"	3 3/16"

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. †
(VALID FOR SECTIONS B1 & C1 ON SHEET 2 & 3 OF 8).

MAXIMUM DESIGN LOAD "W" (p.s.f.)	SECTION C1			SECTION B1			SECTION B1					
	WALL MOUNTING INSTALLATION AT TOP & BOTTOM (TO CONCRETE)			WALL MOUNTING INSTALLATION AT BOTTOM (TO MASONRY)			FLOOR/CEILING MOUNTING INSTALLATION TOP & BOTTOM (TO CONCRETE)			FLOOR/CEILING MOUNTING INSTALLATION BOTTOM (TO CONCRETE) ††		
	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3
FROM 35.0 TO 61.8	6"	6"	6"	3"	3"	3"	6"	6"	3 1/2"	6"	6"	3 1/2"
FROM 61.9 TO 75.3	6"	6"	6"	3"	3"	3"	6"	5"	3"	6"	5"	3"
FROM 75.4 TO 91.4	6"	6"	6"	3"	3"	3"	6"	4"	3" *	6"	4"	2 1/2"
FROM 91.5 TO 120.0	6"	6"	6"	3"	3"	3"	5 1/2"	3"	3" *	5 1/2"	3"	2 1/2"
FROM 120.1 TO 168.1	3"	3"	3"	3"	2 1/2"	N/A	4"	4" †	3 3/4" †	4"	3"	3"
FROM 168.2 TO 195.0	3"	3"	3"	3"	N/A	N/A	3"	3 3/4" †	3 3/4" †	3"	3"	3"

MAXIMUM ANCHOR SPACING LEGEND (EXCEPT AS INDICATED ON †, †† NOTES BELOW)

WALL MOUNTING	FLOOR/CEILING MOUNTING
1/4" TAPCON	1/4" TAPCON (TOP & BOTTOM) & CALK-IN (BOTTOM)

MIN. ANCHORS SPACING SCHEDULE	
1/4" ANCHORS TYPE	MIN. SPACING
TAPCONS	3.0"
CALK-IN	2.5"

† MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING (THIS OPERATION IS NOT ALLOWED FOR 5/16" TAPCONS PER †, †† NOTES) BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS.

(NOTE: Min. E. D. FOR CALK-IN ANCHORS IS 2 1/2"). FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE AT MIN. ANCHORS SPACING SCHEDULE.

ACTUAL E. D. = EDGE DISTANCE	FACTOR	
	TAPCON/ZAMAC NAILIN	CALK-IN
3"	.86	.75
2 1/2"	.71	.50
2"	.50"	.50

†† SEE SHEETS 5 & 6 OF 8 FOR ANCHORS TYPE SPACING FOR INSTALLATIONS INTO WOOD FRAME BLDGS. SEE ANCHORS LEGEND FOR ANCHORS TYPE FOR A GIVEN SPACING, LOAD & SHUTTER SPAN.

* USE 3" SPACING FOR 1/4" TAPCONS AND USE 2 1/2" SPACING FOR CALK-INS

† THIS SPACING IS ONLY VALID WHEN INSTALLATION IS PERFORMED USING A 5/16" XL TAPCON W/ 2 1/4" Min. EMBEDMENT AS MANUFACTURED BY ITW/BUILDEX, INC.

†† THESE SPACINGS ARE ONLY VALID WHEN INSTALLATION IS PERFORMED USING A 1/4"x7/8" CALK-IN W/ 7/8" Min. EMBEDMENT INTO CONCRETE, AS MANUFACTURED BY POWERS FASTENERS, INC. AND ANCHOR IS ONLY INSTALLED ON TRACK (C) OR (D) AT MIDWIDTH OF TRACK.

ANCHOR SPACING LEGEND

- (1) Max. ANCHOR SPCG. VALID FOR SPANS OF 5'-0" OR LESS.
- (2) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 5'-0" TO 8'-6".
- (3) Max. ANCHOR SPCG. VALID FOR SPANS GREATER THAN 8'-6" TO Max. ALLOWED.

FEB 28 2008

F.B.C. (High Velocity Hurricane Zone)

		OMEGA ACCORDION SHUTTER / HI-RISE		DRAWN BY: J.J.V. / I.A.	
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33186 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167		HURRICANE MANUFACTURING, CORP. 11850 MIRAMAR PARKWAY MIRAMAR, FLORIDA 33025 PH: (1800)642-3057, FAX: (954)392-7356		DATE 9/13/05 05-283 DRAWING No SHEET 8 OF 8	
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 03-754	8/13/05	3	† NOTE REV.	2/28/05
2	ANCHOR SCHEDULES	9/6/07	4	-	-