MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

General Impact Glass and Windows Corp.
7840 NW 64th Street
Miami, FL. 33166

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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: High Impact 50 mm Slat Aluminum Roll-Up Hurricane Abatement System up to 24'-0" Wide

APPROVAL DOCUMENT: Drawing No. **12-049**, titled "High Impact 50 mm Slat Aluminum Hurricane Abatement", prepared by Tilteco Inc., sheets 1 through 12, including sheet 11A, dated 02/20/2012, with revision 2 dated 07/31/2012, 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 Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved" and NOA number, per TAS-201, TAS-202, and TAS-203, 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 **renews** and **revises NOA # 07-0828.11** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.
The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

03/04/2013

NOA No. 12-0604.08
Expiration Date: September 17, 2017
Approval Date: March 14, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **12-049**, titled "High Impact 50 mm Slat Aluminum Hurricane Abatement", prepared by Tilteco Inc., sheets 1 through 12, including sheet 11A, dated 02/20/2012, with revision 2 dated 07/31/2012, signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS ***"Submitted under NOA # 07-0828.11"***

1. Test reports on Uniform Static Air Pressure Test per FBC, TAS 202-94, Large Missile Impact Test per FBC, TAS 201-94 & Cyclic Wind Pressure Test per FBC, TAS 203-94 of High Impact 50 mm Slat Aluminum Hurricane Abatement Systems, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **5229**, dated 05/14/2007, signed and sealed by Michael R. Wenzel, P.E.

C. CALCULATIONS ***"Submitted under NOA # 07-0828.11"***

1. Comparative and structural analysis for slats; storm bars, headers, tracks, mullions and anchors, using rational analysis dated 06/04/2007, pages 1 through 279 of 279 prepared by Tilteco, Inc. signed and sealed by Walter A. Tillit Jr., P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

D. MATERIAL CERTIFICATIONS ***"Submitted under NOA # 07-0828.11"***

1. Tensile Test Report per ASTM B557, prepared by Fenestration Testing Laboratory, Inc., Test Report No **5205**, dated 06/04/2007, signed and sealed signed and sealed by Carlos S. Rionda, P.E.

E. STATEMENTS

1. Statement letter of code conformance to the 2010 FBC, issued by Tilteco, Inc, dated 05/09/2012, signed and sealed by Walter A. Tillit, Jr., P.E.

03/04/2013

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 12-0604.08
Expiration Date: September 17, 2017
Approval Date: March 14, 2013

GENERAL NOTES:

1. HURRICANE ABATEMENT SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2010** EDITION OF THE FLORIDA BUILDING CODE.

   DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS **1620** OF THE ABOVE MENTIONED CODE, USING ASCE 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 9 THRU 12.

   IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 9 THRU 12.

   IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.A.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. A DURATION FACTOR CD=1.60 WAS USED FOR VERIFICATION OF FASTENERS IN WOOD.
   HURRICANE ABATEMENT ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION **1626** OF THE ABOVE MENTIONED CODE AS PER FENESTRATION TESTING LAB. REPORT # 5229 AS PER TAS-201, TAS-202 AND TAS-203 PROTOCOLS.

2. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY (UNLESS OTHERWISE NOTED).

3. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018. ALL S.D.S. ARE TEK SCREWS MANUFACTURED BY ITW BUILDEX & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

4. BOLTS TO BE ASTM A-307, GALVANIZED OR AISI 304 OR 316 SERIES STAINLESS STEEL WITH 36 ksi MINIMUM YIELD STRENGTH.

5. ALL RIVETS TO BE 5052 ALUMINUM ALLOY W/ ALUMINUM MANDREL W/ 315 lbs SHEAR STRENGTH & 500 lbs TENSILE STRENGTH.

6. ANCHORS TO WALL FOR (1A) SIDE RAIL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)

(A) TO EXISTING POURED CONCRETE: MIN. 2899 p.s.i. COMPRESSIVE STRENGTH.

NOTES:
-5/16"ø TAPCON XL ANCHORS AS MANUFACTURED BY ITW BUILDEX, INC.

A.1) MINIMUM EMBEDMENT OF TAPCON XL ANCHORS INTO POURED CONCRETE SHALL BE 1 3/4". NO EMBEDMENT INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.

A.2) MINIMUM EDGE DISTANCE OF TAPCON XL ANCHORS INTO POURED CONCRETE SHALL BE 4".

A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS.

(B) TO EXISTING GROUT FILLED CELL CONCRETE BLOCK WALL: ASTM C-90

NOTES:
-5/16"ø TAPCON XL ANCHORS, AS MANUFACTURED BY ITW BUILDEX, INC.

B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS, INTO THE GROUT FILLED CELL CONCRETE BLOCK UNIT SHALL BE 2 1/4". NO EMBEDMENT INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.

B.2) MINIMUM EDGE DISTANCE OF TAPCON XL ANCHORS INTO GROUT FILLED CELL CONCRETE BLOCK SHALL BE 4".

B.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS.

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

8. ANCHORS REQUIRED FOR MULLION CONNECTIONS SHALL BE AS SPECIFIED ON APPLICABLE SECTIONS SHOWN ON SHEETS 7 & 8 RESPECTIVELY.

   -HSL HEAVY DUTY SLEEVE ANCHORS TO BE AS MANUFACTURED BY HILTI, INC.

MINIMUM EDGE DISTANCE AND SPACING FOR ABOVE MENTIONED ANCHORS SHALL BE AS INDICATED BELOW OR AT ABOVE MENTIONED SHEETS. EDGE DISTANCE AND EMBEDMENTS ARE BEYOND ANY FINISH MATERIAL.

ANCHOR	SPACING @ 100%	EDGE DISTANCE @ 100%	EMBEDMENT CONCRETE	EMBEDMENT GROUT FILLED OR CONCRETE BLOCK
M16 HLS HEAVY DUTY	12 3/8"	11 3/4"	4 1/8" (3000 psi)	-

9. HURRICANE ABATEMENT MANUFACTURER'S LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE SIDE RAIL APPROXIMATELY 4" BELOW THE TOP OF SUCH RAIL.

   LABEL SHALL READ AS FOLLOWS:
   GENERAL IMPACT GLASS AND WINDOWS, CORP.
   MIAMI, FL.
   MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE EXISTING STRUCTURE IS DESIGNED TO SUPPORT Vx AND Vy FORCES AT BOTH JAMBS. SEE SHEET 9 OF FOR Vx & Vy VALUES.

11. HURRICANE ABATEMENT MAY BE INSTALLED WITH SLATS CONCAVE SIDE FACING OUTSIDE OR INSIDE OF BUILDING.

12. ROLL-UP MECHANISM NOT PART OF THIS APPROVAL.

13. HURRICANE ABATEMENT INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

14. THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL DOOR COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.

15. (a) THIS 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 INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

   (c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

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

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

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0604.8
Expiration Date 09/17/2017
By
Miami Dade Product Control

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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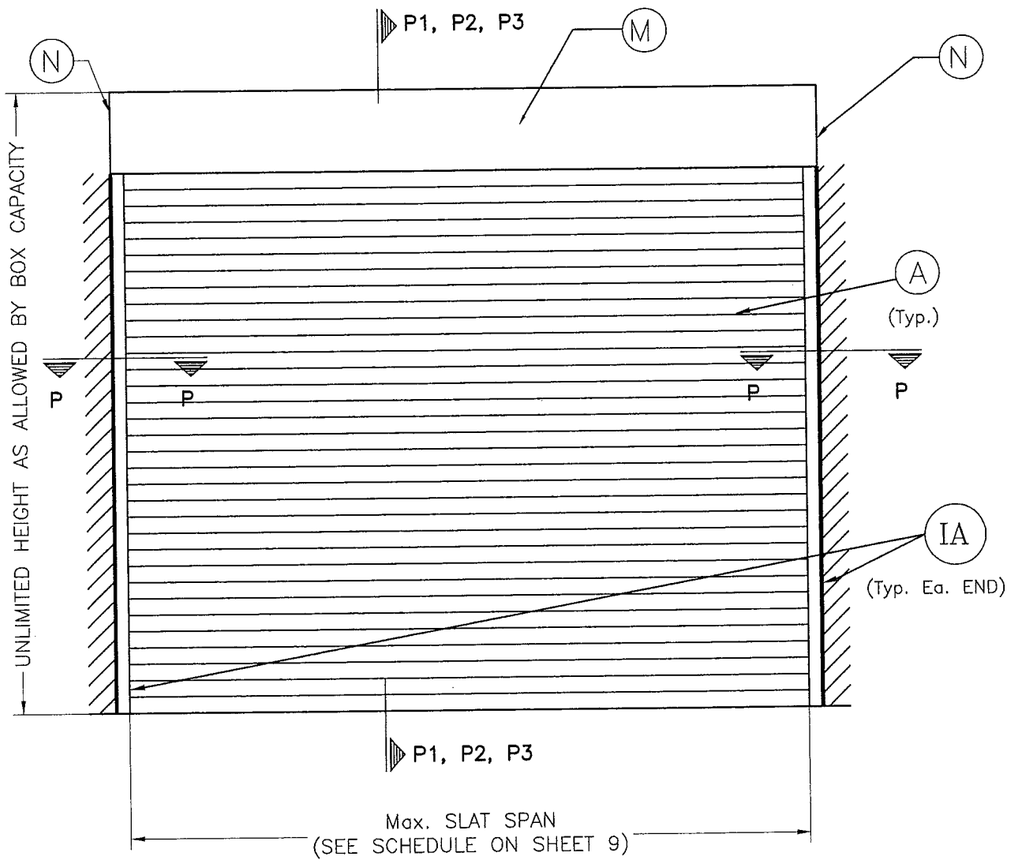
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305 - VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 , Fax : (305) 871-1531
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

HIGH IMPACT 50mm SLAT
ALUMINUM HURRICANE ABATEMENT

GENERAL IMPACT GLASS AND WINDOWS, CORP.
290 WEST 78 ROAD
HIALEAH, FL. 33014
PHONE: (305) 558-8103 FAX: (305) 558-6665
www.generalimpact.com

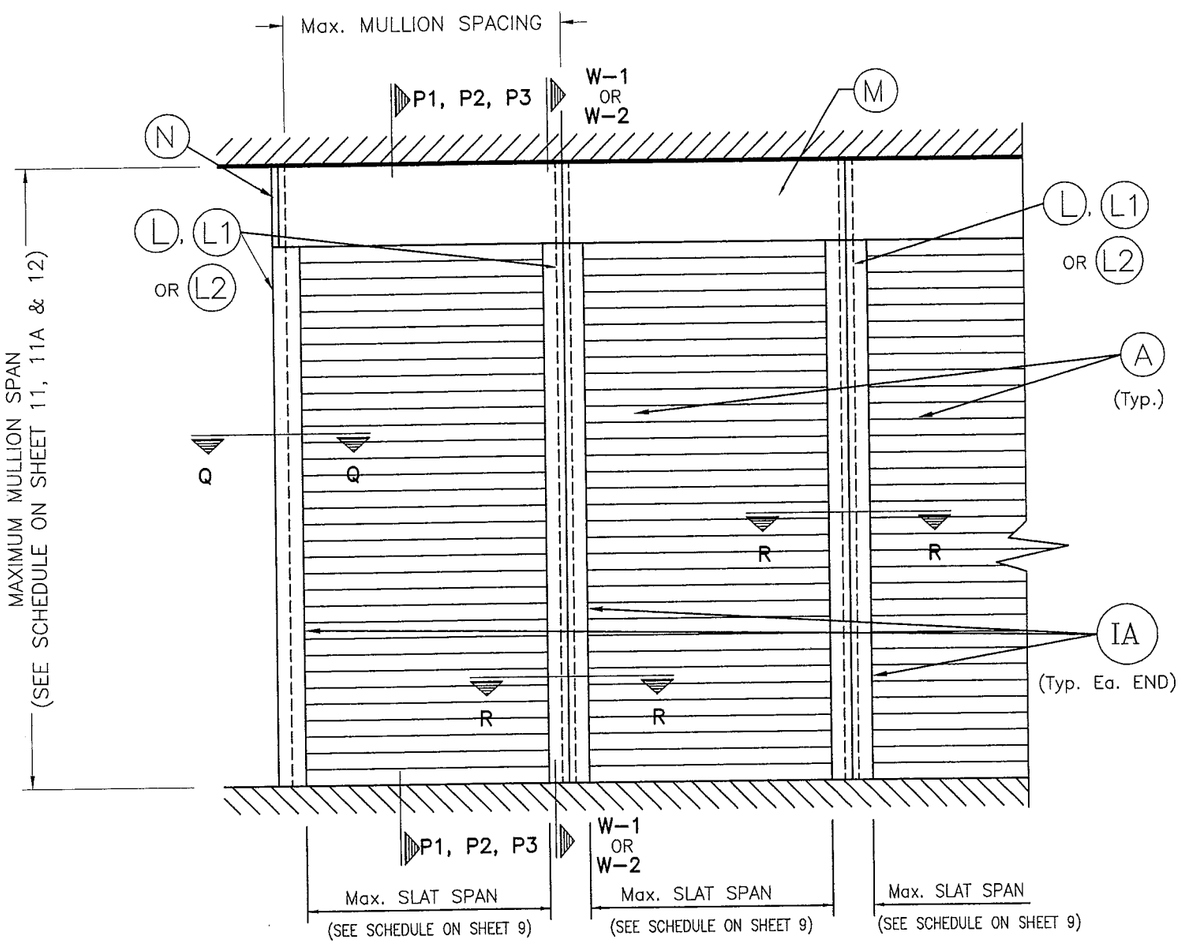
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 07-214	02/20/12	3		
2	HURRICANE ABATEMENT	07/31/12	4		

DRAWN BY: F.P./A.G.
02/20/12 DATE
12-049 DRAWING No
SHEET 1 OF 12



TYPICAL SINGLE UNIT ELEVATION

NOTE: SEE SHEET 3 & 4 FOR COMPONENTS NOMENCLATURE.



TYPICAL CONSECUTIVE SINGLE UNIT ELEVATION

NOTE: SEE SHEET 3 & 4 FOR COMPONENTS NOMENCLATURE.

NOTE:
SEE SECTIONS ON
SHEETS 5 THRU 8.

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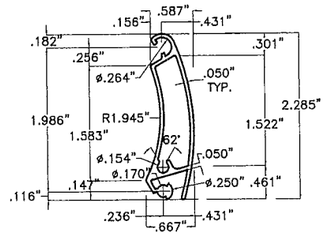
DRAWN BY: F.P./A.G.
02/20/12 DATE
12-049 DRAWING No
SHEET 2 OF 12



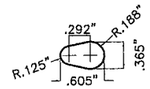
(A) SLAT

50mm EXTRUDED ALUMINUM SLAT

6061–T6 OR 6005–T5 ALUMINUM ALLOY

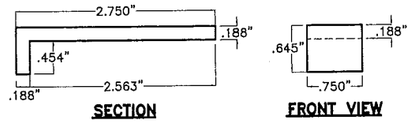
Fy = 35.0 ksi

Ftu = 38.0 ksi



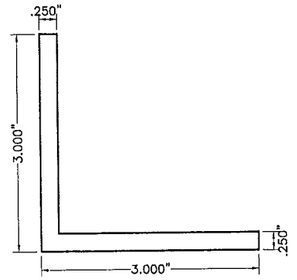
(B) SLAT STOPPER

5005–H32 OR 3004–H16 ALUMINUM ALLOY (t = 0.050")



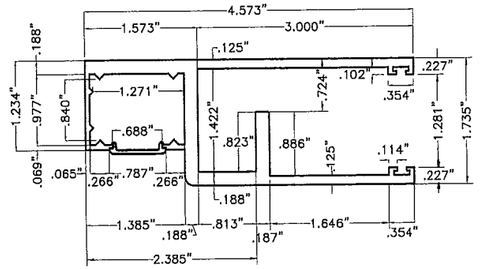
(C) WIND LOCK FOR SLAT (A)

6061–T6 OR 6005–T5 ALUMINUM ALLOY



(F) INSIDE MOUNT ANGLE

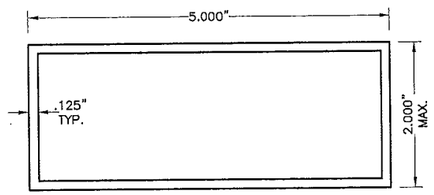
6063–T6 ALUMINUM ALLOY



(IA) TYPE 1 SIDE RAIL

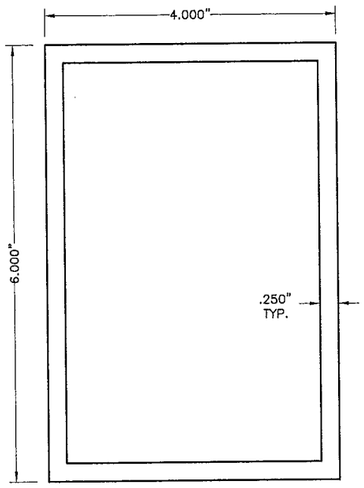
EXTRUDED ALUMINUM TRACK

6061–T6 OR 6005–T5 ALUMINUM ALLOY



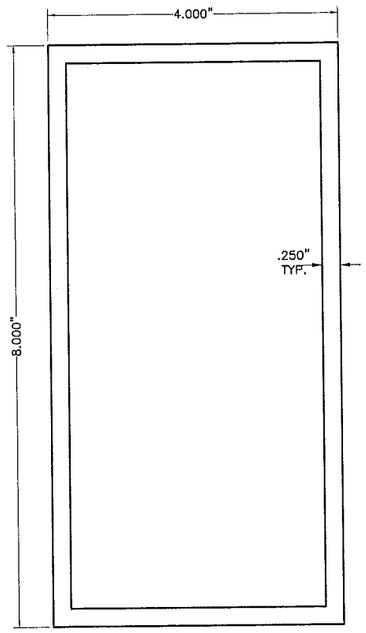
(J) BUILD–OUT TUBE

6063–T6 ALUMINUM ALLOY



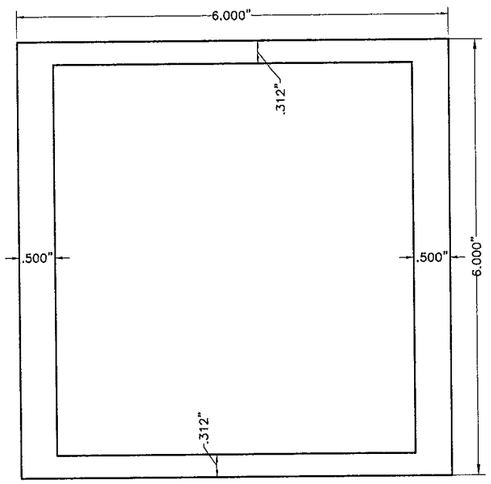
(L) TYPE 1 MULLION

6061–T6 ALUMINUM ALLOY



(L1) TYPE 2 MULLION

6061–T6 ALUMINUM ALLOY



(L2) TYPE 3 MULLION

6061–T6 ALUMINUM ALLOY

COMPONENTS

PRODUCT REVISED
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DRAWN BY: F.P./A.G.

02/20/12 DATE

12–049 DRAWING No

SHEET 3 OF 12

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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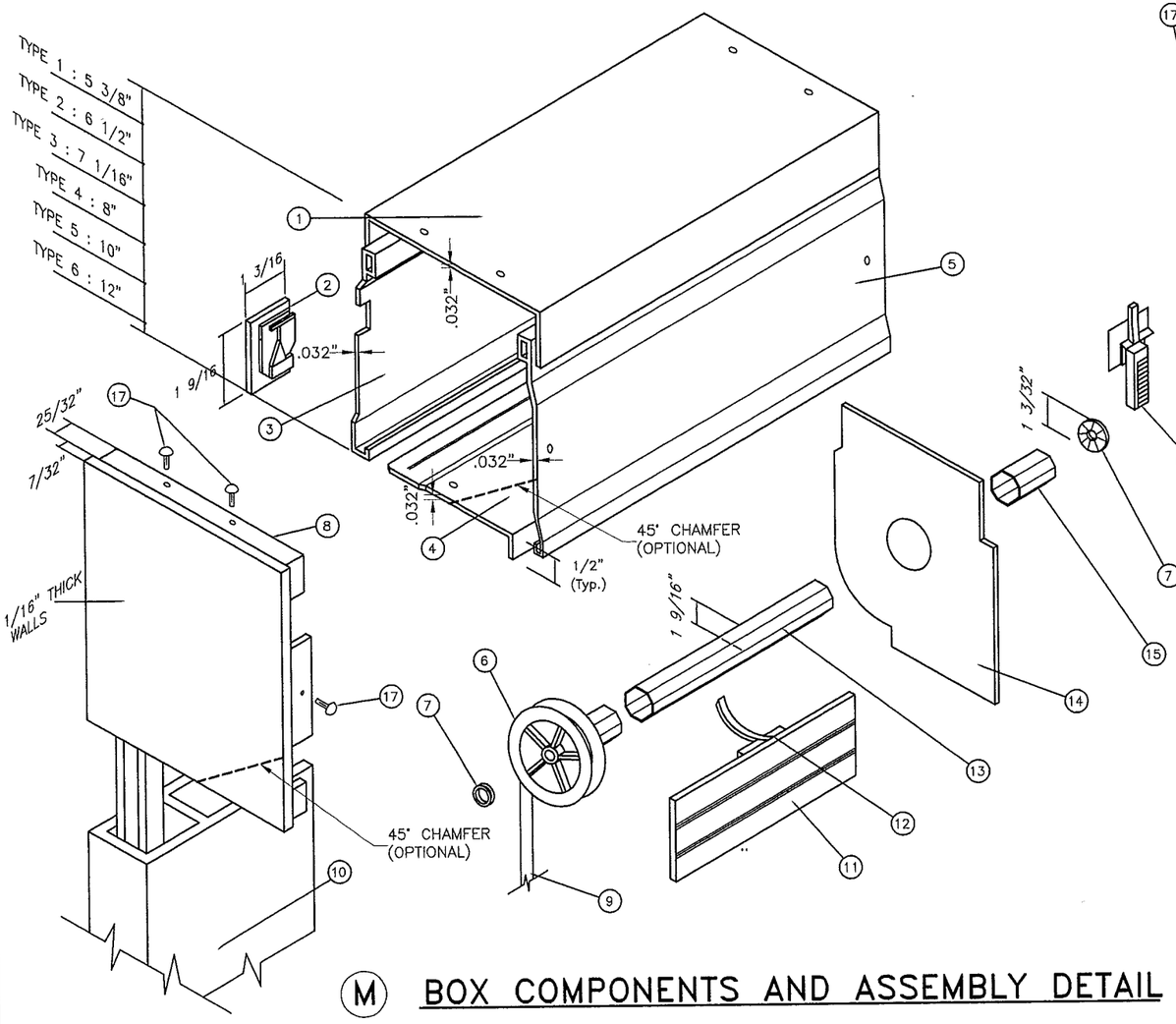
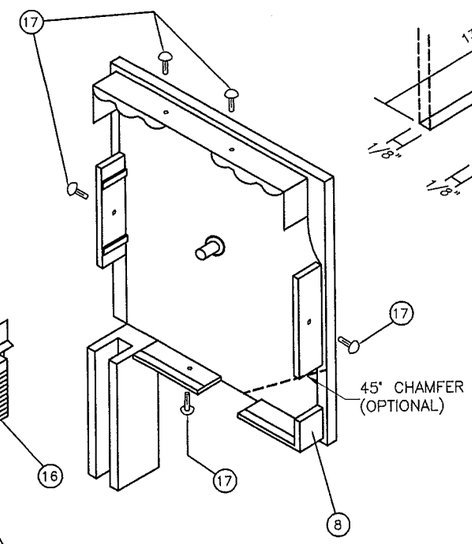
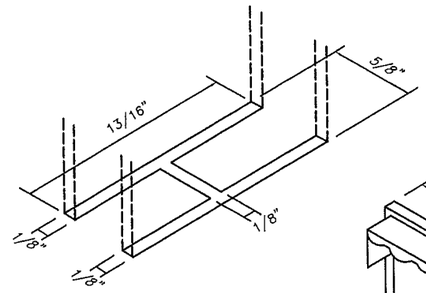
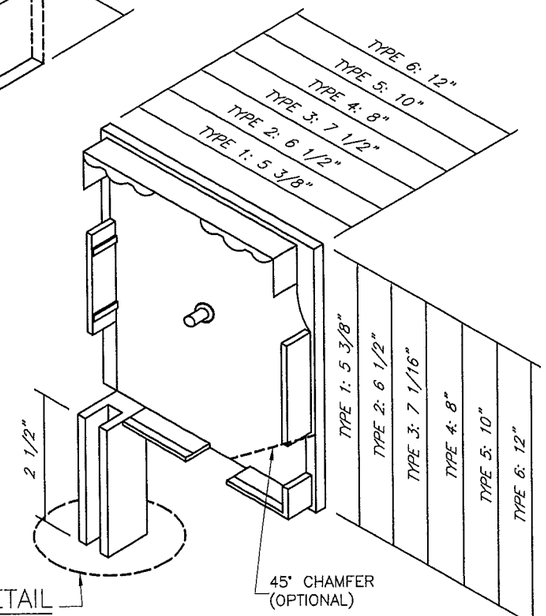
2	HURRICANE ABATEMENT	07/31/12	4		



M BOX COMPONENTS AND ASSEMBLY DETAIL







STUB DETAIL
(N. T. S.)

1. TOP PROFILE 3005–H28 ALLOY.
2. BOTTOM LEADER W/PLUSH.
3. REAR PROFILE 3005–H28 ALLOY.
4. BOTTOM PROFILE 3005–H28 ALLOY.
5. COVER PROFILE 3005–H28 ALLOY.
6. NYLON DISK: 4 1/4" O. D.
7. ROLLING CUSHION W/BALLS.
8. BOX SIDE BRACKET: CAST ALUMINUM.
9. RIBBON: 17/32" WIDE.
10. SIDE RAIL.
11. SLAT.
12. EXTRUDED ALUMINUM DRAWING HOOP.
13. GALVANIZED STEEL DRUM: 1 9/16" O. D. x 0.032" Thk.
14. RETAINING METAL PLATE: 26 Ga. Galv. Stl. AT EACH END.
15. NYLON FERRULE: 1 17/32" O. D. x 0.045" Thk. x 3 5/16" Long.
16. NYLON FUNNEL.
17. SCREWS: # 4 x 1/2" S. S.

N BOX SIDE BRACKET TYPES

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DRAWN BY: F.P./A.G.
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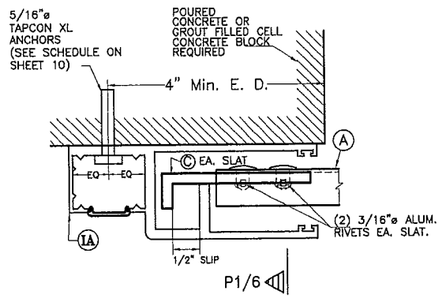
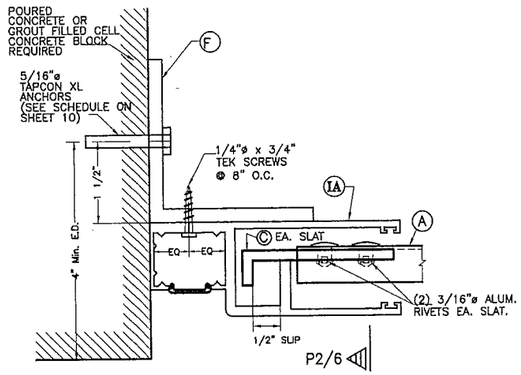
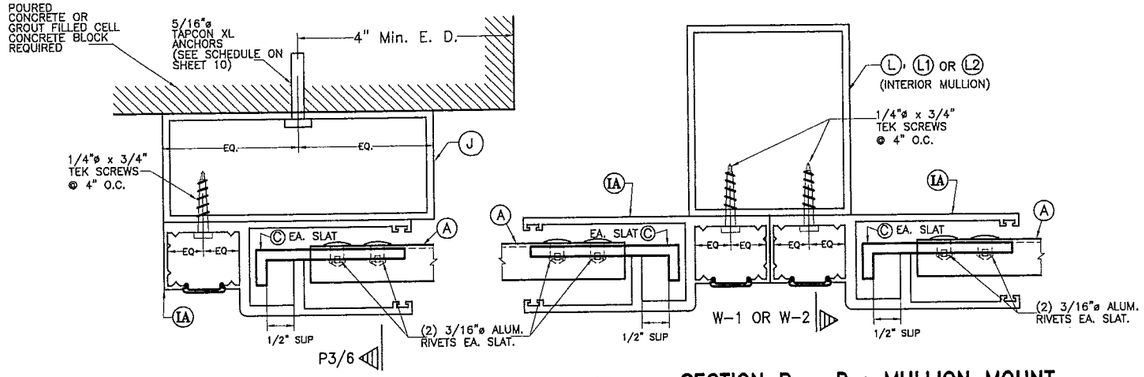
12–049 DRAWING No
SHEET 4 OF 12



SECTION P – P (1) : WALL MOUNT



SECTION P – P (2) : INSIDE WALL MOUNT



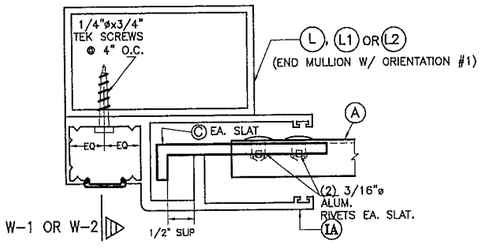
SECTION P – P (3) : BUILD-OUT MOUNT

SECTION R – R : MULLION MOUNT (FACE MOUNT)

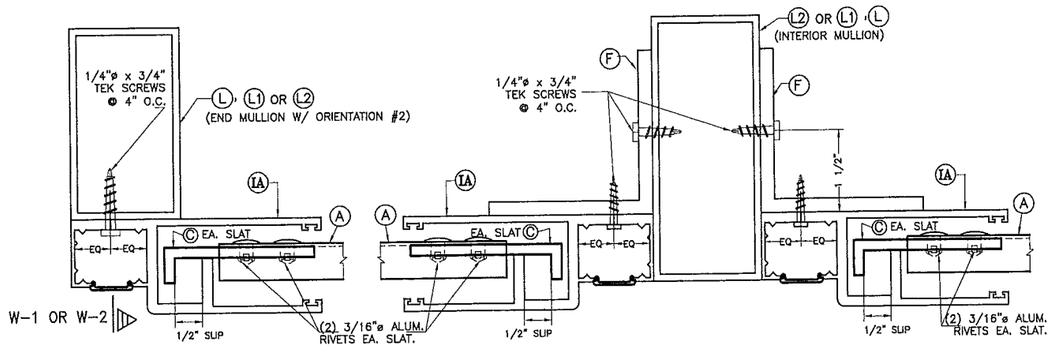
SIDE RAIL CONNECTIONS

TO POURED CONCRETE OR GROUT FILLED CELL CONCRETE BLOCK WALL

SCALE: 1/2" = 1"



SECTION Q – Q : MULLION MOUNT (FACE MOUNT)



SECTION Q – Q : MULLION MOUNT (FACE MOUNT)

SECTION R – R : MULLION MOUNT (INSIDE MOUNT)

PRODUCT REVISED
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Acceptance No 12-0604.08
Expiration Date 04/17/2017
By _____
Miami Dade Product Control

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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EB-0006719
WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

HIGH IMPACT 50mm SLAT
ALUMINUM HURRICANE ABATEMENT

DRAWN BY: F.P./A.G.

GENERAL IMPACT GLASS & WINDOWS
The Clear Solution

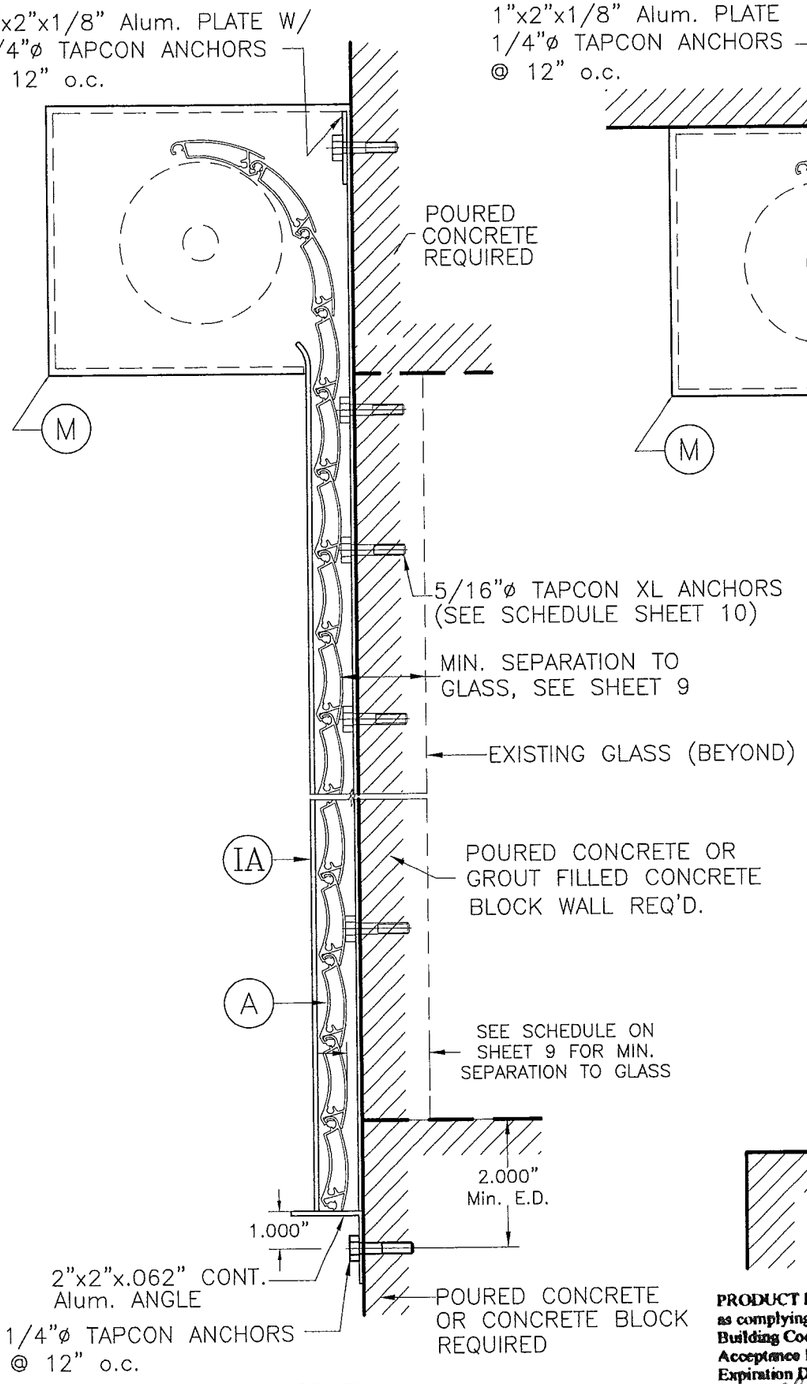
GENERAL IMPACT GLASS AND WINDOWS, CORP.
290 WEST 78 ROAD
HIALEAH, FL. 33014
PHONE: (305) 558-8103 FAX: (305) 558-6665
www.generalimpact.com

02/20/12 DATE

12-049 DRAWING No

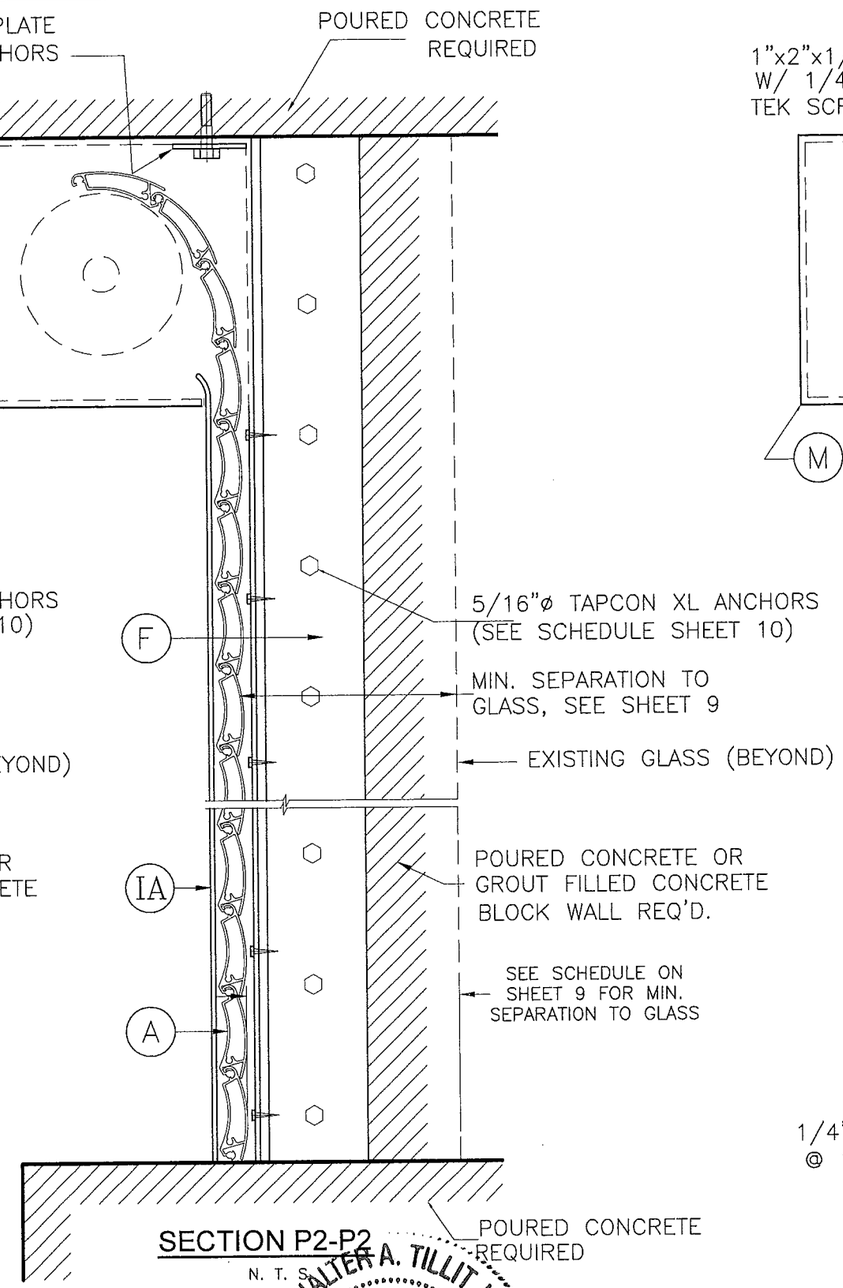
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 07-214	02/20/12	3		
2	HURRICANE ABATEMENT	07/31/12	4		

SHEET 5 OF 12



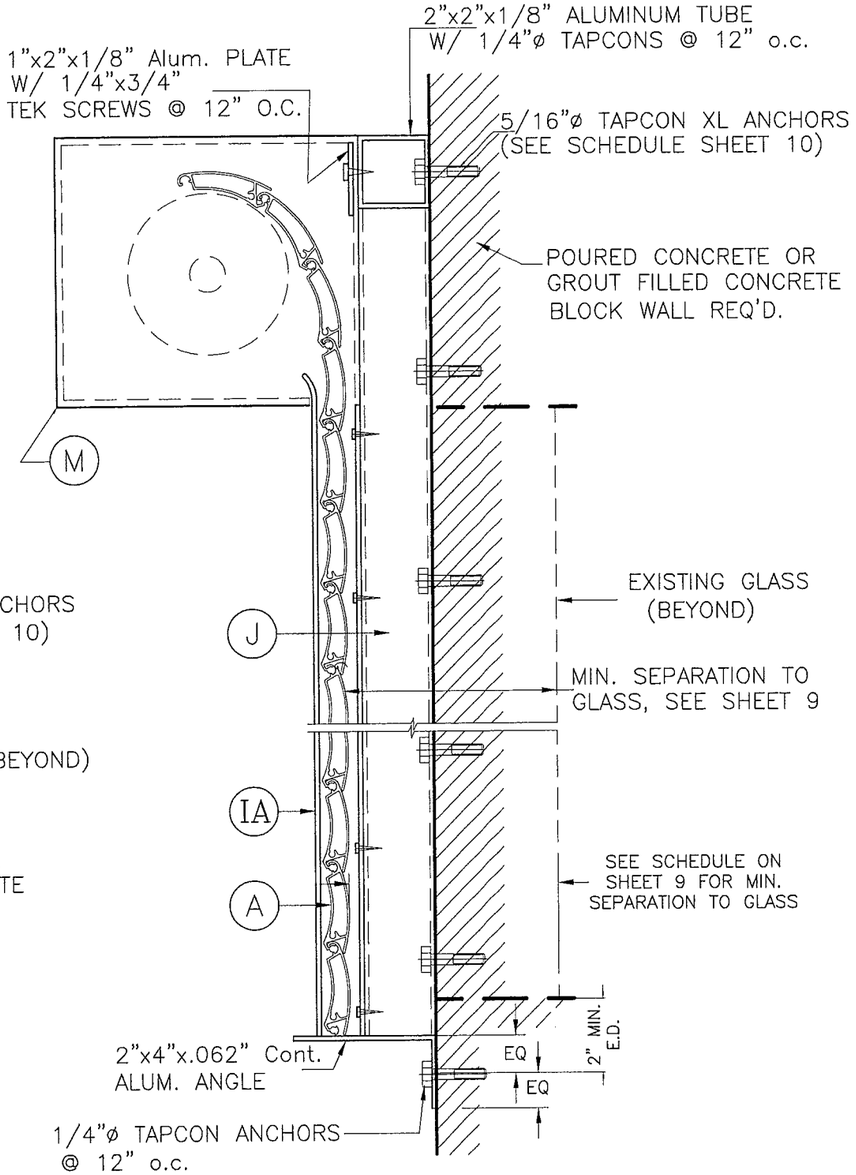
SECTION P1-P1

N. T. S.



SECTION P2-P2

N. T. S.



SECTION P3-P3

N. T. S.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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ALUMINUM HURRICANE ABATEMENT

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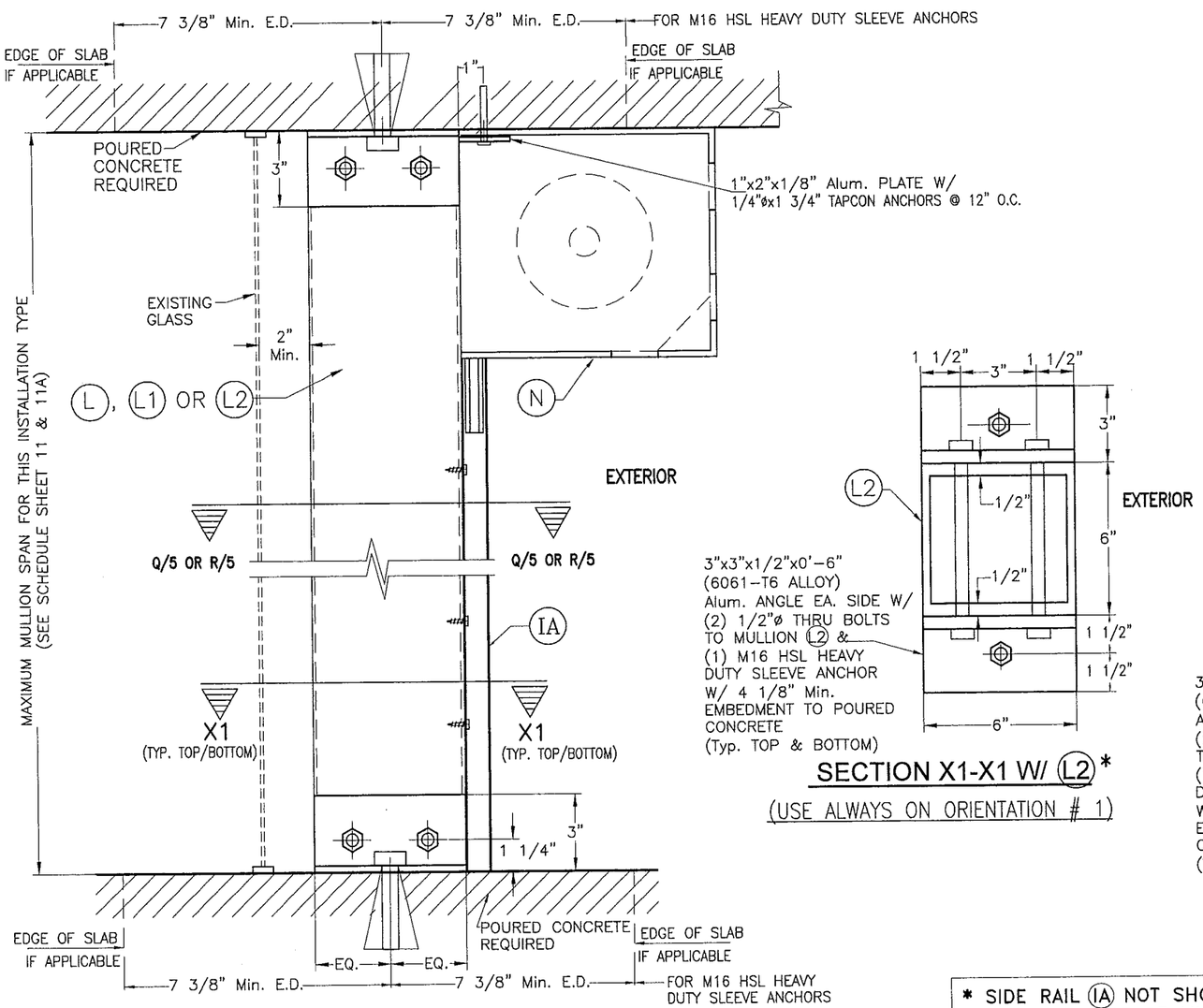
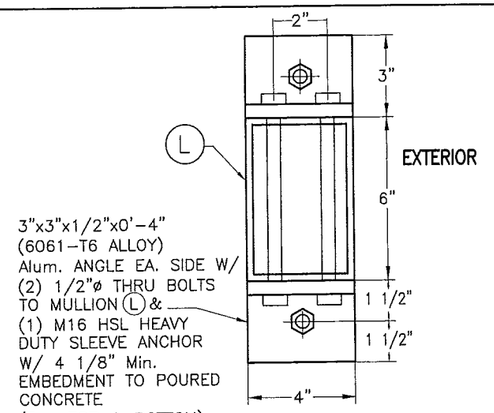


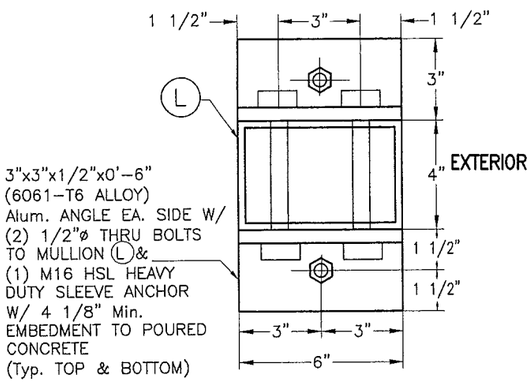
FLOOR TO CEILING / TRAPPED MOUNTING : MULLION (L), (L1) OR (L2)

SECTION W-1



SECTION X1-X1 W/ (L) *

(W/ ORIENTATION # 1)

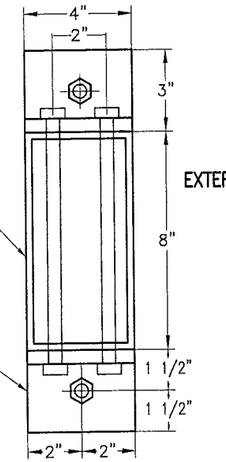


ALTERNATIVE SECTION X1-X1 W/ (L) *

(W/ ORIENTATION # 2)

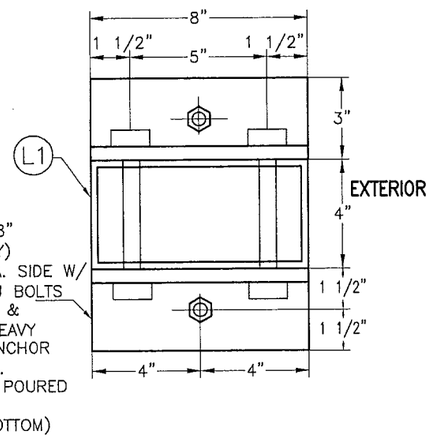
SECTION X1-X1 W/ (L2) *

(USE ALWAYS ON ORIENTATION # 1)



SECTION X1-X1 W/ (L1) *

(W/ ORIENTATION # 1)



ALTERNATIVE SECTION X1-X1 W/ (L1) *

(W/ ORIENTATION # 2)

* SIDE RAIL (IA) NOT SHOWN FOR CLARITY. IT GOES ON EXTERIOR SIDE OF MULLION.

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END & INTERIOR TRAPPED MOUNTED MULLION INSTALLATION

SCALE: 3/16" = 1"

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HIGH IMPACT 50mm SLAT
ALUMINUM HURRICANE ABATEMENT

DRAWN BY: F.P./A.G.

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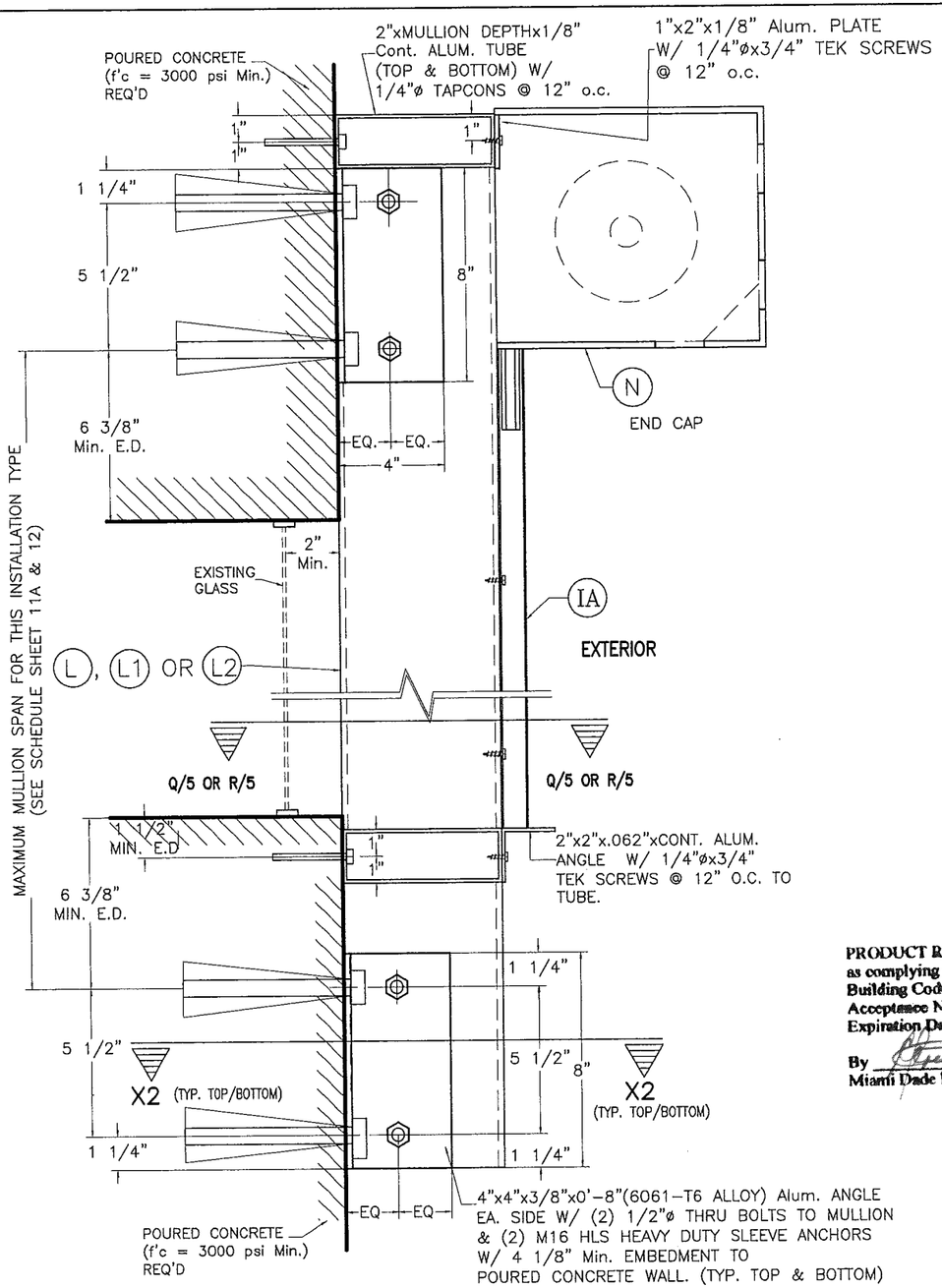
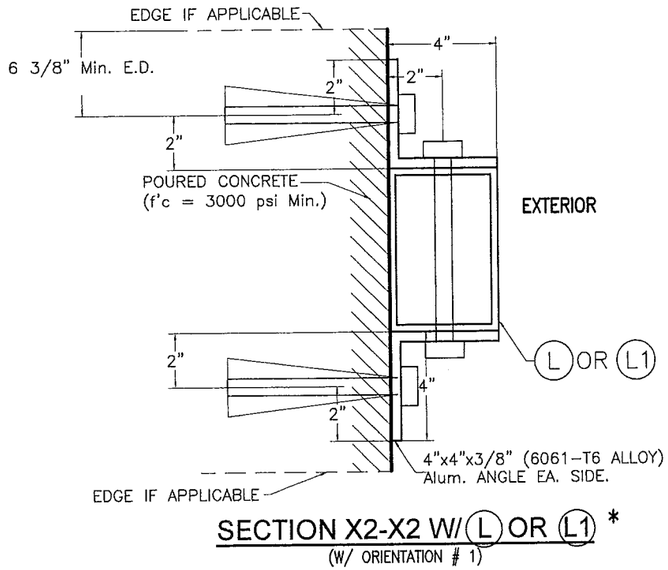
SHEET 7 OF 12



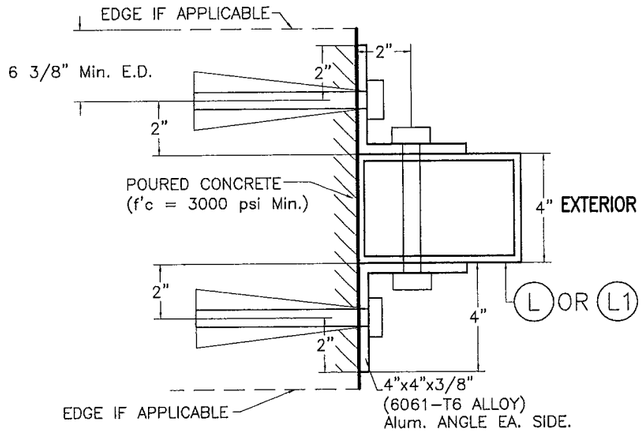
WALL MOUNTING : MULLION (L), (L1) OR (L2)
POURED CONCRETE WALL
SECTION W-2

END & INTERIOR WALL MOUNTED MULLION INSTALLATION

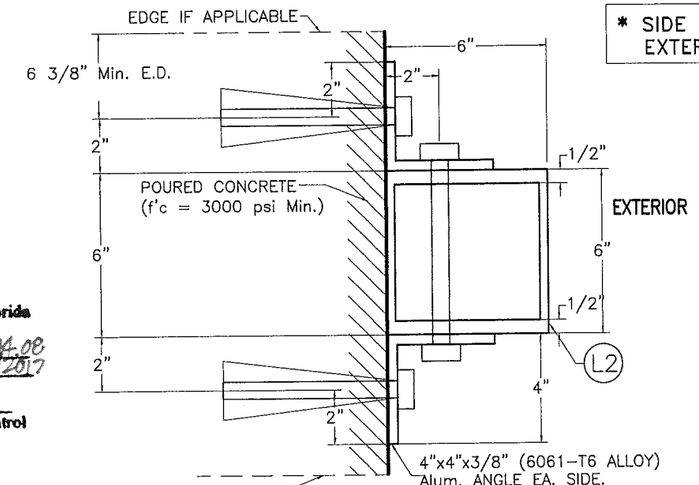
SCALE: 3/16"= 1"



SECTION X2-X2 W/ (L) OR (L1) *
(W/ ORIENTATION # 1)



ALTERNATIVE SECTION X2-X2 W/ (L) OR (L1) *
(W/ ORIENTATION # 2)



SECTION X2-X2 W/ (L2) *
(W/ ORIENTATION # 1)

* SIDE RAIL (IA) NOT SHOWN FOR CLARITY. IT GOES ON EXTERIOR SIDE OF MULLION.

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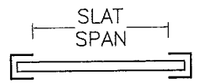
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 07-214	02/20/12	3		
2	HURRICANE ABATEMENT	07/31/12	4		

DRAWN BY: F.P./A.G.
02/20/12 DATE
12-049 DRAWING No
SHEET 8 OF 12

SLAT PERFORMANCE CHART:
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f) FOR A 1/2" SLIP (in) AND SLAT MOUNT CONDITION.

(USE MAXIMUM VALUE BETWEEN POSITIVE AND NEGATIVE A.S.D. LOAD)

MAXIMUM A.S.D. DESIGN PRESSURE RATING	REQUIRED MAX. SLAT SPAN (FT) WALL & INSIDE MOUNT SEE NOTES *	REQUIRED MAX. SLAT SPAN (FT) B.O. MOUNT SEE NOTES *	MINIMUM SEPARATION TO GLASS (in)
30.0	24'–0"	17'–9"	9 11/16"
35.0	22'–5"	16'–1"	
40.0	20'–3"	14'–10"	
45.0	18'–6"	13'–10"	
50.0	17'–1"	12'–11"	
55.0	15'–11"	12'–3"	
60.0	14'–11"	11'–8"	
65.0	14'–1"	11'–2"	
70.0	13'–4"	10'–8"	
75.0	12'–8"	10'–4"	
80.0	12'–1"	10'–0"	
85.0	11'–7"	9'–8"	4 7/8"
90.0	11'–2"	9'–4"	
95.0	10'–9"	9'–1"	
100.0	10'–4"	8'–10"	
105.0	10'–0"	8'–8"	
110.0	9'–8"	8'–5"	
115.0	9'–5"	8'–3"	
120.0	9'–2"	8'–1"	
125.0	8'–11"	7'–11"	
130.0	8'–8"	7'–10"	
135.0	8'–6"	7'–8"	
140.0	8'–3"	7'–6"	
145.0	8'–1"	7'–5"	
150.0	7'–11"	7'–3"	
155.0	7'–9"	7'–2"	
160.0	7'–6"	7'–1"	2 7/8"



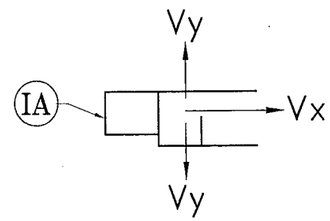
SLAT SPAN DEFINITION

SCHEDULE 1: Vx FORCES (Lb/FT) & Vy FORCES (Lb/FT) ACTING AT JAMBS FOR A MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE (p.s.f), SLAT SPAN RANGE FOR POURED CONCRETE OR GROUT FILLED CELL CONCRETE BLOCK WALL BUILDINGS

MAX.A.S.D. DESIGN PRESSURE RATING RANGE	SLAT SPAN RANGE																	
	0'–4'		> 4'–5'		> 5'–6'		> 6'–7'		> 7'–9'		> 9'–12'		> 12'–16'		> 16'–20'		> 20'–24'	
	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy
≤ 30.0	10	60	10	75	10	90	10	105	10	135	471	180	954	240	1389	300	1815	360
>31–40	10	80	10	100	10	120	10	140	152	180	710	240	1296	320	1841	400	1874	405
>41–60	10	120	10	150	10	180	10	210	479	270	1172	360	1750	448	–	–	–	–
>61–80	10	160	10	200	10	240	57	280	794	360	1619	480	1640	483	–	–	–	–
>81–105	10	210	10	263	10	315	347	368	1175	473	1522	525	–	–	–	–	–	–
>106–120	10	240	10	300	10	360	515	420	1400	540	1465	550	–	–	–	–	–	–
>121–140	10	280	10	350	104	420	734	490	1361	578	–	–	–	–	–	–	–	–
>141–160	10	320	10	400	290	480	949	560	1232	600	–	–	–	–	–	–	–	–

* NOTES:

1. ABOVE INDICATED MAX. SLAT SPANS MAY BE USED AS LONG AS ANCHOR SPACING SCHEDULES ON SHEET 10 INDICATE THAT A SPACING IS AVAILABLE FOR THE CORRESPONDING SLAT SPAN AND A.S.D. DESIGN PRESSURE RATING.
2. REQUIRES SIDE RAILS WITH 5/16"ø TAPCON XL INSTALLED INTO POURED CONCRETE OR GROUT FILLED CELL CONCRETE BLOCK WALL OR 1/4"ø TEK SCREWS AT MULLIONS CONNECTION VALID FOR WALL MOUNTED, INSIDE MOUNTED, AND BUILD–OUT MOUNTED.
3. MAXIMUM SLAT SPANS FOR INTERMEDIATE LOADS MAY BE DETERMINED BY LINEAR INTERPOLATION BETWEEN END VALUES.



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HIGH IMPACT 50mm SLAT ALUMINUM HURRICANE ABATEMENT

DRAWN BY: F.P./A.G.

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SIDE RAIL MAX. ANCHOR'S SPACING FOR WALL MOUNT & MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE & SLAT SPAN RANGE †

MAX.A.S.D. DESIGN PRESSURE RATING RANGE(psf)	SLAT SPAN RANGE								
	0'–4' †	> 4'–5' †	> 5'–6' †	> 6'–7' †	> 7'–9' †	> 9'–12' †	> 12'–16' †	> 16'–20' †	> 20'–24' †
≤ 30.0	8"	8"	8"	8"	8"	8"	7"	5"	4"
>31–40	8"	8"	8"	8"	8"	8"	5"	4"	3 3/4"
>41–60	8"	8"	8"	8"	8"	6"	4"	–	–
>61–80	8"	8"	8"	8"	8"	4"	4"	–	–
>81–105	8"	8"	8"	8"	5 3/4"	4"	–	–	–
>106–120	8"	8"	8"	8"	4 3/4"	4"	–	–	–
>121–140	8"	8"	8"	8"	4 3/4"	–	–	–	–
>141–160	8"	8"	8"	6 1/2"	4 3/4"	–	–	–	–

SIDE RAIL MAX. ANCHOR'S SPACING FOR INSIDE MOUNT & MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE & SLAT SPAN RANGE †

MAX.A.S.D. DESIGN PRESSURE RATING RANGE(psf)	SLAT SPAN RANGE								
	0'–4' †	> 4'–5' †	> 5'–6' †	> 6'–7' †	> 7'–9' †	> 9'–12' †	> 12'–16' †	> 16'–20' †	> 20'–24' †
≤ 30.0	4"	4"	4"	4"	4"	4"	4"	4"	4"
>31–40	4"	4"	4"	4"	4"	4"	4"	3 3/4"	3 3/4"
>41–60	4"	4"	4"	4"	4"	4"	3 3/4"	–	–
>61–80	4"	4"	4"	4"	4"	3 3/4"	3 3/4"	–	–
>81–105	4"	4"	4"	4"	4"	3 3/4"	–	–	–
>106–120	4"	4"	4"	4"	3 3/4"	3 3/4"	–	–	–
>121–140	4"	4"	4"	4"	3 3/4"	–	–	–	–
>141–160	4"	4"	4"	4"	3 3/4"	–	–	–	–

SIDE RAIL MAX. ANCHOR'S SPACING FOR BUILD-OUT MOUNT & MAXIMUM A.S.D. DESIGN PRESSURE RATING RANGE & SLAT SPAN RANGE †

MAX.A.S.D. DESIGN PRESSURE RATING RANGE(psf)	SLAT SPAN RANGE								
	0'–4' †	> 4'–5' †	> 5'–6' †	> 6'–7' †	> 7'–9' †	> 9'–12' †	> 12'–16' †	> 16'–20' †	> 20'–24' †
≤ 30.0	4"	4"	4"	4"	4"	4"	4"	3 3/4"	–
>31–40	4"	4"	4"	4"	4"	4"	3 3/4"	–	–
>41–60	4"	4"	4"	4"	4"	3 3/4"	–	–	–
>61–80	4"	4"	4"	4"	4"	3 3/4"	–	–	–
>81–105	4"	4"	4"	4"	3 3/4"	–	–	–	–
>106–120	4"	4"	4"	4"	3 3/4"	–	–	–	–
>121–140	4"	4"	4"	4"	3 3/4"	–	–	–	–
>141–160	4"	4"	4"	4"	3 3/4"	–	–	–	–

ANCHOR'S TYPE LEGEND
5/16"ø TAPCON XL TO POURED CONCRETE OR GROUT FILLED CELL CONCRETE BLOCK WALL

SLAT SPAN DEFINITION

† NOTE:
MAX. SPAN FOR SLAT FOR A GIVEN A.S.D. DESIGN PRESSURE RATING SHALL NEVER EXCEED MAX. SLAT SPAN INDICATED ON SLAT PERFORMANCE CHART ON SHEET 9.

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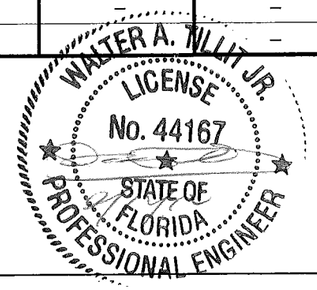
By _____
Miami Dade Product Control



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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305 – VIRGINIA GARDENS, Fl. 33166
Phone : (305) 871–1530 , Fax : (305) 871–1531
e–mail: tilteco@aol.com
EB–0006719
WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

HIGH IMPACT 50mm SLAT
ALUMINUM HURRICANE ABATEMENT

GENERAL IMPACT GLASS & WINDOWS
"The Clear Solution"
GENERAL IMPACT GLASS AND WINDOWS, CORP.
290 WEST 78 ROAD
HIALEAH, FL. 33014
PHONE: (305) 558–8103 FAX: (305) 558–6665
www.generalimpact.com

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 07–214	02/20/12	3		
2	HURRICANE ABATEMENT	07/31/12	4		

DRAWN BY: F.P./A.G.
02/20/12 DATE
12–049 DRAWING No

FLOOR TO CEILING / TRAPPED MOUNTING
END & INTERIOR MULLION MAX. SPAN (ft) SCHEDULE.
FOR A MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.), & A GIVEN MULLION SPACING (ft) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (FT) *	MAXIMUM MULLION SPAN (FT)									
		(L) 4"x6"x1/4" MULLION				(L1) 4"x8"x1/4" MULLION				(L2) 6"x6"x5/16"x1/2" MULLION	
		ORIENTATION #1 ▭		ORIENTATION #2 ▯		ORIENTATION #1 ▭		ORIENTATION #2 ▯		ORIENTATION #1 **	
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR
30.0	24'–0"	6'–9"	7'–11"	5'–9"	9'–10"	8'–0"	8'–8"	6'–3"	12'–0"	9'–3"	12'–0"
35.0	22'–5"	6'–9"	7'–9"	5'–9"	9'–7"	8'–0"	8'–5"	6'–3"	12'–0"	9'–3"	11'–9"
40.0	20'–3"	6'–9"	7'–8"	5'–9"	9'–6"	8'–0"	8'–4"	6'–3"	12'–0"	9'–4"	11'–7"
45.0	18'–6"	6'–9"	7'–7"	5'–10"	9'–5"	8'–0"	8'–3"	6'–3"	11'–11"	9'–5"	11'–6"
50.0	17'–1"	6'–9"	7'–6"	5'–10"	9'–4"	8'–1"	8'–2"	6'–4"	11'–9"	9'–5"	11'–5"
55.0	15'–11"	6'–10"	7'–5"	5'–10"	9'–3"	8'–1"	8'–1"	6'–5"	11'–8"	9'–6"	11'–4"
60.0	14'–11"	6'–10"	7'–5"	5'–11"	9'–2"	8'–1"	8'–0"	6'–5"	11'–7"	9'–6"	11'–3"
65.0	14'–1"	6'–10"	7'–4"	5'–11"	9'–1"	8'–1"	8'–0"	6'–5"	11'–6"	9'–7"	11'–2"
70.0	13'–4"	6'–11"	7'–3"	5'–11"	9'–0"	8'–2"	7'–11"	6'–6"	11'–5"	9'–8"	11'–1"
75.0	12'–8"	6'–11"	7'–3"	6'–0"	9'–0"	8'–2"	7'–10"	6'–6"	11'–4"	9'–8"	11'–0"
80.0	12'–1"	6'–11"	7'–2"	6'–0"	8'–11"	8'–2"	7'–10"	6'–7"	11'–4"	9'–9"	10'–11"
85.0	11'–7"	6'–11"	7'–2"	6'–1"	8'–10"	8'–3"	7'–9"	6'–7"	11'–3"	9'–10"	10'–11"
90.0	11'–2"	6'–11"	7'–1"	6'–1"	8'–10"	8'–3"	7'–9"	6'–7"	11'–2"	9'–10"	10'–10"
95.0	10'–9"	7'–0"	7'–1"	6'–1"	8'–9"	8'–3"	7'–8"	6'–8"	11'–1"	9'–11"	10'–9"
100.0	10'–4"	7'–0"	7'–0"	6'–2"	8'–9"	8'–3"	7'–8"	6'–8"	11'–1"	9'–11"	10'–8"
105.0	10'–0"	7'–0"	7'–0"	6'–2"	8'–8"	8'–4"	7'–7"	6'–9"	11'–0"	10'–0"	10'–8"
110.0	9'–8"	7'–1"	7'–0"	6'–3"	8'–7"	8'–4"	7'–7"	6'–9"	10'–11"	10'–1"	10'–7"
115.0	9'–5"	7'–1"	6'–11"	6'–3"	8'–7"	8'–4"	7'–6"	6'–9"	10'–11"	10'–1"	10'–7"
120.0	9'–2"	7'–1"	6'–11"	6'–3"	8'–6"	8'–4"	7'–6"	6'–10"	10'–10"	10'–2"	10'–6"
125.0	8'–11"	7'–2"	6'–10"	6'–4"	8'–6"	8'–4"	7'–6"	6'–10"	10'–9"	10'–2"	10'–5"
130.0	8'–8"	7'–2"	6'–10"	6'–4"	8'–6"	8'–5"	7'–5"	6'–11"	10'–9"	10'–3"	10'–5"
135.0	8'–6"	7'–2"	6'–9"	6'–4"	8'–5"	8'–5"	7'–5"	6'–11"	10'–8"	10'–3"	10'–4"
140.0	8'–3"	7'–2"	6'–9"	6'–5"	8'–5"	8'–6"	7'–4"	7'–0"	10'–8"	10'–4"	10'–4"
145.0	8'–1"	7'–2"	6'–9"	6'–5"	8'–4"	8'–6"	7'–4"	7'–0"	10'–7"	10'–5"	10'–3"
150.0	7'–11"	7'–3"	6'–9"	6'–6"	8'–4"	8'–6"	7'–4"	7'–0"	10'–7"	10'–6"	10'–3"
155.0	7'–9"	7'–3"	6'–8"	6'–6"	8'–4"	8'–6"	7'–3"	7'–1"	10'–6"	10'–6"	10'–2"
160.0	7'–6"	7'–4"	6'–8"	6'–8"	8'–4"	8'–8"	7'–3"	7'–3"	10'–6"	10'–9"	10'–2"

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

* MAXIMUM MULLION SPACING SHALL BE SUCH THAT SLAT SPAN SHALL NOT BE EXCEEDED.
** REQUIRES 5/16" MULLION THICKNESS ON THE EXTERIOR FACE OF MULLION IN CONTACT W/ SIDE RAIL (IA).

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0604.08
Expiration Date 09/17/2017
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Miami Dade Product Control

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MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (FT) *	MAXIMUM MULLION SPAN (FT)									
		(L) 4"x6"x1/4" MULLION				(L1) 4"x8"x1/4" MULLION				(L2) 6"x6"x5/16"x1/2" MULLION	
		ORIENTATION #1 (▭)		ORIENTATION #2 (▯)		ORIENTATION #1 (▭)		ORIENTATION #2 (▯)		ORIENTATION #1 **	
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR
30.0	8'–0"	12'–0"	11'–6"	12'–0"	12'–0"	12'–0"	12'–0"	12'–0"	12'–0"	12'–0"	12'–0"
35.0	8'–0"	12'–0"	10'–11"	12'–0"	12'–0"	12'–0"	11'–10"	12'–0"	12'–0"	12'–0"	12'–0"
40.0	8'–0"	12'–0"	10'–5"	12'–0"	12'–0"	12'–0"	11'–4"	12'–0"	12'–0"	12'–0"	12'–0"
45.0	8'–0"	12'–0"	10'–0"	12'–0"	12'–0"	12'–0"	10'–11"	12'–0"	12'–0"	12'–0"	12'–0"
50.0	8'–0"	12'–0"	9'–7"	12'–0"	12'–0"	12'–0"	10'–6"	12'–0"	12'–0"	12'–0"	12'–0"
55.0	8'–0"	11'–10"	9'–4"	12'–0"	11'–5"	12'–0"	10'–2"	12'–0"	12'–0"	12'–0"	12'–0"
60.0	8'–0"	11'–6"	9'–1"	12'–0"	11'–3"	12'–0"	9'–11"	12'–0"	12'–0"	12'–0"	12'–0"
65.0	8'–0"	11'–2"	8'–10"	11'–3"	11'–0"	12'–0"	9'–8"	12'–0"	12'–0"	12'–0"	12'–0"
70.0	8'–0"	10'–11"	8'–8"	10'–4"	10'–8"	11'–10"	9'–5"	11'–3"	12'–0"	12'–0"	12'–0"
75.0	8'–0"	10'–8"	8'–5"	9'–9"	10'–6"	11'–7"	9'–2"	10'–7"	12'–0"	12'–0"	12'–0"
80.0	8'–0"	10'–5"	8'–3"	9'–3"	10'–3"	11'–4"	9'–0"	10'–0"	12'–0"	12'–0"	12'–0"
85.0	8'–0"	10'–2"	8'–1"	8'–10"	10'–0"	11'–1"	8'–10"	9'–5"	12'–0"	12'–0"	12'–0"
90.0	8'–0"	10'–0"	7'–11"	8'–5"	9'–10"	10'–11"	8'–8"	9'–2"	12'–0"	12'–0"	12'–0"
95.0	8'–0"	9'–9"	7'–10"	8'–1"	9'–8"	10'–8"	8'–6"	8'–11"	12'–0"	12'–0"	11'–10"
100.0	8'–0"	9'–5"	7'–8"	7'–11"	9'–6"	10'–6"	8'–4"	8'–7"	12'–0"	12'–0"	11'–8"
105.0	8'–0"	9'–1"	7'–6"	7'–8"	9'–4"	10'–4"	8'–2"	8'–4"	11'–10"	12'–0"	11'–6"
110.0	8'–0"	8'–9"	7'–5"	7'–6"	9'–2"	10'–2"	8'–1"	8'–2"	11'–8"	11'–7"	11'–4"
115.0	8'–0"	8'–6"	7'–4"	7'–4"	9'–1"	10'–0"	7'–11"	7'–11"	11'–6"	10'–10"	11'–2"
120.0	8'–0"	8'–3"	7'–2"	7'–2"	8'–11"	9'–8"	7'–10"	7'–9"	11'–4"	10'–2"	11'–0"
125.0	8'–0"	8'–0"	7'–1"	7'–0"	8'–10"	9'–5"	7'–9"	7'–7"	11'–1"	–	10'–10"
130.0	8'–0"	7'–10"	7'–0"	6'–10"	8'–8"	9'–2"	7'–8"	7'–2"	11'–0"	–	10'–8"
135.0	8'–0"	7'–8"	6'–11"	6'–9"	8'–7"	9'–0"	7'–6"	–	10'–11"	–	10'–7"
140.0	8'–0"	7'–5"	6'–10"	6'–7"	8'–6"	8'–9"	7'–5"	–	10'–9"	–	10'–5"
145.0	8'–0"	7'–3"	6'–9"	6'–6"	8'–5"	8'–7"	7'–4"	–	10'–8"	–	10'–4"
150.0	–	–	–	–	–	–	–	–	–	–	–
155.0	–	–	–	–	–	–	–	–	–	–	–
160.0	–	–	–	–	–	–	–	–	–	–	–

WALTER A. TILLIT JR LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0604.08
Expiration Date 09/17/2017
By
Miami Dade Product Control

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- SEE MAX. MULLION SPANS FOR SHORTER MULLION SPACING ON SCHEDULE ON SHEETS 11 & 12.

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DRAWN BY: F.P./A.G.
02/20/12 DATE
12-049 DRAWING No
SHEET 11A OF 12

WALL MOUNTING
END & INTERIOR MULLION MAX. SPAN (ft) SCHEDULE.
FOR A MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.), & A GIVEN MULLION SPACING (ft) *

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM MULLION SPACING (FT) *	MAXIMUM MULLION SPAN (FT)									
		(L) 4"x6"x1/4" MULLION				(L1) 4"x8"x1/4" MULLION				(L2) 6"x6"x5/16"x1/2" MULLION	
		ORIENTATION #1 (▭)		ORIENTATION #2 (▯)		ORIENTATION #1 (▭)		ORIENTATION #2 (▯)		ORIENTATION #1 **	
		END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR	END	INTERIOR
30.0	24'–0"	6'–9"	7'–11"	5'–5"	9'–10"	7'–8"	8'–8"	4'–8"	12'–0"	6'–0"	12'–0"
35.0	22'–5"	6'–9"	7'–9"	5'–5"	9'–7"	7'–8"	8'–5"	4'–8"	12'–0"	6'–0"	11'–9"
40.0	20'–3"	6'–9"	7'–8"	5'–6"	9'–6"	7'–8"	8'–4"	4'–8"	12'–0"	6'–1"	11'–7"
45.0	18'–6"	6'–9"	7'–7"	5'–7"	9'–5"	7'–10"	8'–3"	4'–9"	11'–11"	6'–2"	11'–6"
50.0	17'–1"	6'–9"	7'–6"	5'–8"	9'–4"	7'–11"	8'–2"	4'–10"	11'–9"	6'–3"	11'–5"
55.0	15'–11"	6'–10"	7'–5"	5'–9"	9'–3"	8'–0"	8'–1"	4'–11"	11'–8"	6'–4"	11'–4"
60.0	14'–11"	6'–10"	7'–5"	5'–10"	9'–2"	8'–1"	8'–0"	4'–11"	11'–7"	6'–5"	11'–3"
65.0	14'–1"	6'–10"	7'–4"	5'–11"	9'–1"	8'–1"	8'–0"	5'–0"	11'–6"	6'–5"	11'–2"
70.0	13'–4"	6'–11"	7'–3"	5'–11"	9'–0"	8'–2"	7'–11"	5'–1"	11'–5"	6'–6"	11'–1"
75.0	12'–8"	6'–11"	7'–3"	6'–0"	9'–0"	8'–2"	7'–10"	5'–2"	11'–4"	6'–7"	11'–0"
80.0	12'–1"	6'–11"	7'–2"	6'–0"	8'–11"	8'–2"	7'–10"	5'–2"	11'–4"	6'–8"	10'–11"
85.0	11'–7"	6'–11"	7'–2"	6'–1"	8'–10"	8'–3"	7'–9"	5'–3"	11'–3"	6'–9"	10'–11"
90.0	11'–2"	6'–11"	7'–1"	6'–1"	8'–10"	8'–3"	7'–9"	5'–3"	11'–2"	6'–9"	10'–10"
95.0	10'–9"	7'–0"	7'–1"	6'–1"	8'–9"	8'–3"	7'–8"	5'–4"	11'–1"	6'–10"	10'–9"
100.0	10'–4"	7'–0"	7'–0"	6'–2"	8'–9"	8'–3"	7'–8"	5'–5"	11'–1"	7'–0"	10'–8"
105.0	10'–0"	7'–0"	7'–0"	6'–2"	8'–8"	8'–4"	7'–7"	5'–6"	11'–0"	7'–1"	10'–8"
110.0	9'–8"	7'–1"	7'–0"	6'–3"	8'–7"	8'–4"	7'–7"	5'–7"	10'–11"	7'–2"	10'–7"
115.0	9'–5"	7'–1"	6'–11"	6'–3"	8'–7"	8'–4"	7'–6"	5'–8"	10'–11"	7'–2"	10'–7"
120.0	9'–2"	7'–1"	6'–11"	6'–3"	8'–6"	8'–4"	7'–6"	5'–8"	10'–10"	7'–3"	10'–6"
125.0	8'–11"	7'–2"	6'–10"	6'–4"	8'–6"	8'–4"	7'–6"	5'–9"	10'–9"	7'–4"	10'–5"
130.0	8'–8"	7'–2"	6'–10"	6'–4"	8'–6"	8'–5"	7'–5"	5'–10"	10'–9"	7'–5"	10'–5"
135.0	8'–6"	7'–2"	6'–9"	6'–4"	8'–5"	8'–5"	7'–5"	5'–10"	10'–8"	7'–5"	10'–4"
140.0	8'–3"	7'–2"	6'–9"	6'–5"	8'–5"	8'–6"	7'–4"	6'–0"	10'–8"	7'–7"	10'–4"
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150.0	7'–11"	7'–3"	6'–9"	6'–6"	8'–4"	8'–6"	7'–4"	6'–1"	10'–7"	7'–8"	10'–3"
155.0	7'–9"	7'–3"	6'–8"	6'–6"	8'–4"	8'–6"	7'–3"	6'–1"	10'–6"	7'–10"	10'–2"
160.0	7'–6"	7'–4"	6'–8"	6'–8"	8'–4"	8'–8"	7'–3"	6'–6"	10'–6"	8'–2"	10'–2"

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FLORIDA Lic. # 44167

HIGH IMPACT 50mm SLAT
ALUMINUM HURRICANE ABATEMENT

DRAWN BY: F.P./A.G.

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02/20/12 DATE

12-049 DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 07-214	02/20/12	3		
2	HURRICANE ABATEMENT	07/31/12	4		