



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

Sabic Innovative Plastics US LLC
One Plastic Avenue
Pittsfield, MA 01201

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: "Lexan " Clear Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 07-447, titled " Lexan Clear Storm Panel ", sheets 1 through 3 of 3, prepared by Thornton Tomasetti, dated March 22, 2007, last revision #2 dated May 17, 2007, signed and sealed by Gary F. Panariello, P.E. on February 15, 2008 bearing the Miami-Dade County Product Control Renewal 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 panel 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 **renews NOA #08-0305.03** and consists of this page 1, evidence submitted pages E-1 & E-2 as well as Approval document mentioned above.

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



Helmy A. Makar
02/11/2009

NOA No. 09-0105.03
Expiration Date: 01/08/2014
Approval Date: 02/11/2009

Sabic Innovative Plastics US LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER BREVIOUS APPROVAL # 07-0326.06

A. DRAWINGS:

1. *Drawing No. 07-344, titled "Lexan Clear Storm Panel", sheets 1 through 3 of 3, prepared by Thornton Tomasetti, dated March 22, 2007, last revision #2 dated May 17, 2007, signed and sealed by J. W. Knezevich, P.E. on May 17, 2007.*

B. TESTS:

1. *Test report on Large Missile Impact Test, Uniform Static Air Pressure Test and Cyclic Wind Pressure Test of clear storm panel shutter, prepared by American Test Lab of South Florida, Report No. 0213.01-07, dated 03/21/2007, signed and sealed by William R. Mehner, P.E. and Henry Hattem, P.E.*

C. CALCULATIONS:

1. *Storm Bar Calculation and Anchor analysis, 23 pages, dated March 22, 2007, prepared by Thornton Tomasetti, signed and sealed by J. W. Knezevich, P.E. on March 22, 2007.*

D. QUALITY ASSURANCE

1. *By Miami-Dade building Code Compliance Office.*

E. MATERIAL CERTIFICATION:

1. *General Electric Company N.O.A. No. 06-0322.03 for LEXAN Sheets Products.*

F. OTHERS

1. *This approval is issued per the Private Labeling Agreement with Lookout Clear Storm Panel NOA # 07-0326.05*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 08-0305.03

A. DRAWINGS:

1. *Drawing No. 07-344, titled "Lexan Clear Storm Panel", sheets 1 through 3 of 3, prepared by Thornton Tomasetti, dated March 22, 2007, last revision #2 dated May 17, 2007, signed and sealed by J. W. Knezevich, P.E. on May 17, 2007.*

B. TESTS:

1. *None.*

C. CALCULATIONS:

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 09-0105.03
Expiration Date: 01/08/2014
Approval Date: 02/11/2009

Sabic Innovative Plastics US LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. *By Miami-Dade building Code Compliance Office.*

E. MATERIAL CERTIFICATION:

1. *None.*

F. OTHERS

1. *This approval is issued per the Private Labeling Agreement with Lookout Clear Storm Panel NOA # 07-0326.05*

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS:

1. *None.*

B. TESTS:

1. *None.*

C. CALCULATIONS:

1. *None.*

D. QUALITY ASSURANCE

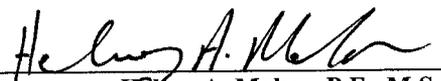
1. *By Miami-Dade building Code Compliance Office.*

E. MATERIAL CERTIFICATION:

1. *None.*

F. OTHERS

1. *This approval is issued per the Private Labeling Agreement with Lookout Clear Storm Panel NOA # 07-0326.05*



**Helmy A. Makar, P.E., M.S.
Product Control Examiner**

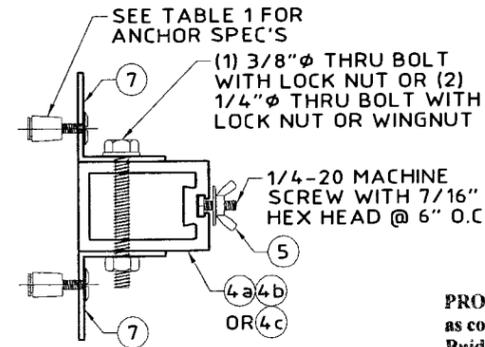
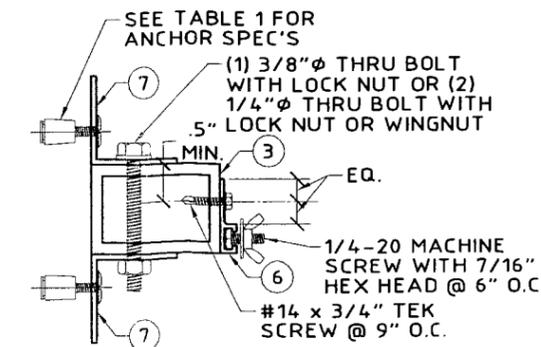
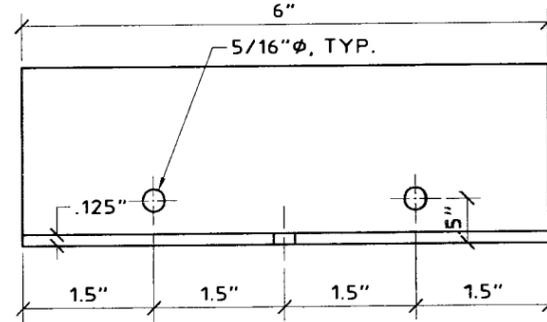
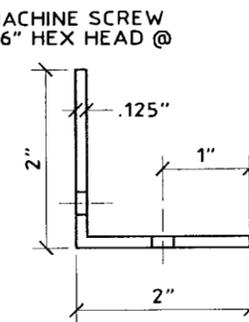
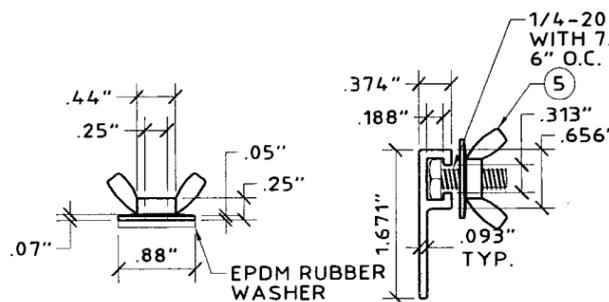
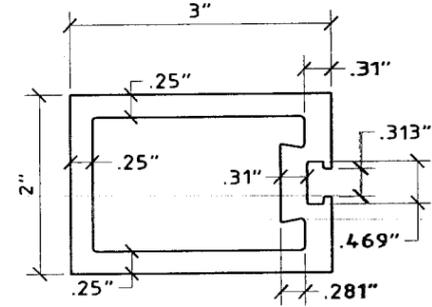
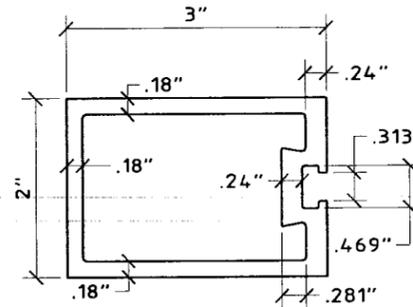
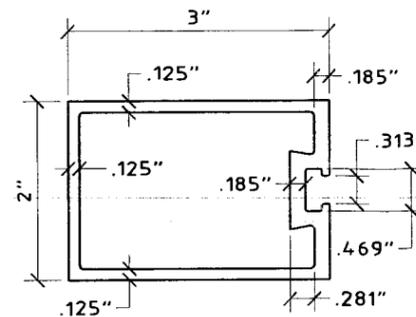
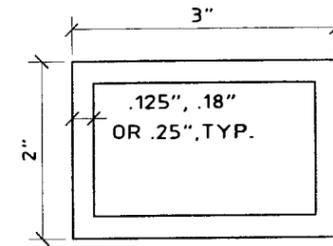
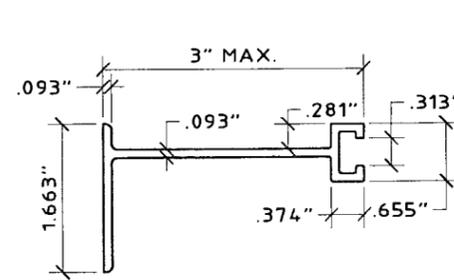
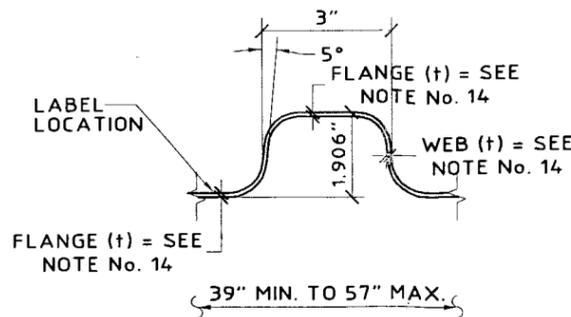
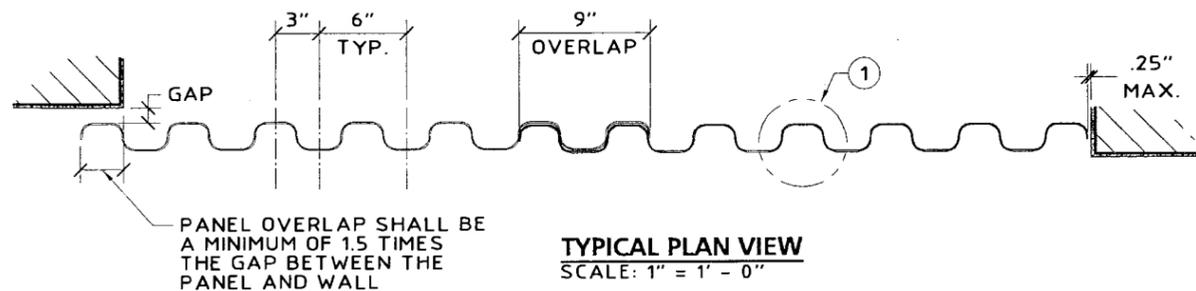
**NOA No. 09-0105.03
Expiration Date: 01/08/2014
Approval Date: 02/11/2009**

GENERAL NOTES:

- THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A LARGE MISSILE IMPACT PROTECTIVE SHUTTER SYSTEM ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE FLORIDA BUILDING CODE 2004 WITH 2005 & 2006 SUPPLEMENTS.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW DESIGN.
- DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7-02, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ SHALL BE USED.
- THESE PRODUCT EVALUATION DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
- USE OF THESE PRODUCT EVALUATION DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- THESE PRODUCT EVALUATION DOCUMENTS ARE INTENDED FOR USE ONLY BY A LICENSED CONTRACTOR, PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AND ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN. CONTRACTOR SHALL VERIFY EXISTING STRUCTURE CAN WITHSTAND SUPERIMPOSED LOAD OF SHUTTER.
- ANY MODIFICATIONS OR ADDITIONS TO THESE PRODUCT EVALUATION DOCUMENTS WILL VOID THE PRODUCT EVALUATION DOCUMENTS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
 - REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
 - REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION
- WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
- PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MINIMUM OF ONE MARKING PER PANEL AND SHALL BE PERMANENTLY LABELED AS FOLLOWS:

**SABIC INNOVATIVE PLASTICS US LLC
PITTSFIELD, MASSACHUSETTS
MIAMI-DADE COUNTY PRODUCT APPROVED**
- ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N.
- TOP AND BOTTOM DETAILS MAY BE INTERCHANGED AS FIELD CONDITIONS REQUIRE.
- AT LEAST ONE WARNING NOTE PER OPENING SHALL BE PLACED IN A CONSPICUOUS LOCATION ON ANY OF THE COMPONENTS OF THE STORM PANEL SYSTEM ADVISING THE HOME OWNER OR TENANT THAT THE STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS REINFORCING BARS AND PANEL FASTENERS ARE PROPERLY INSTALLED WHEN REQUIRED AND WHEN MORE THAN ONE PANEL IS USED THE SPECIFIED PANEL OVERLAP SHALL BE ADHERED TO. WARNING LABEL SHALL BE FASTENED WITH PERMANENT ADHESIVE OR MECHANICALLY.
- STORM PANELS SHALL BE SABIC INNOVATIVE PLASTICS UV RATED XL10 SP SHEET PER NOTICE OF ACCEPTANCE (NOA) # 07-0212.01, WITH 0.088" TYPICAL NOMINAL THICKNESS AND ASSOCIATED MECHANICAL PROPERTIES. PANEL FLANGES SHALL HAVE A MINIMUM THICKNESS OF 0.088". PANEL WEBS SHALL HAVE A MINIMUM THICKNESS OF 0.064" OVERALL PANEL WEIGHT SHALL NOT BE LESS THAN 12.0 OUNCES PER SQUARE FOOT OF CORRUGATED PANEL AREA. PANEL AREA IS MEASURED IN THE CORRUGATED STATE.
- PANEL-TRAK REGISTERED TRADE MARK OF WEATHERGUARD BUILDING PRODUCTS INC.

**SABIC INNOVATIVE PLASTICS US LLC
PITTSFIELD, MASSACHUSETTS
MIAMI-DADE COUNTY PRODUCT APPROVED**



(LEG DIRECTION MAY BE REVERSED FOR THE "F" TRACK)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 09-0105.03
Expiration Date 01/08/2014
By *Helmy A. Makhadmeh*
Miami Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 08-0305.03
Expiration Date 01/08/2009
By *Helmy A. Makhadmeh*
Miami Dade Product Control Division

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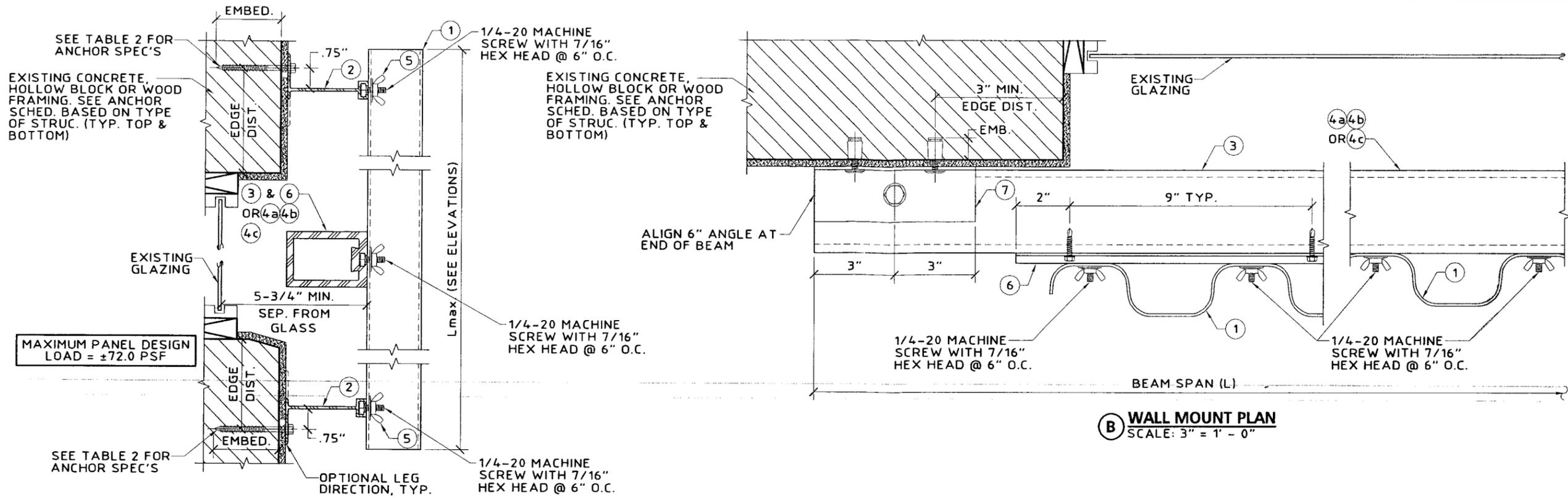
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One Plastic Avenue
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Gary F. Panariello
Professional Engineer
FL License No.: PE 00561A3
G. Panariello
FEB 15 2008

no	date	by	description
1	05/02/2007	JWK	PRODUCT DESCRIPTION
2	05/17/2007	JWK	COUNTY COMMENTS

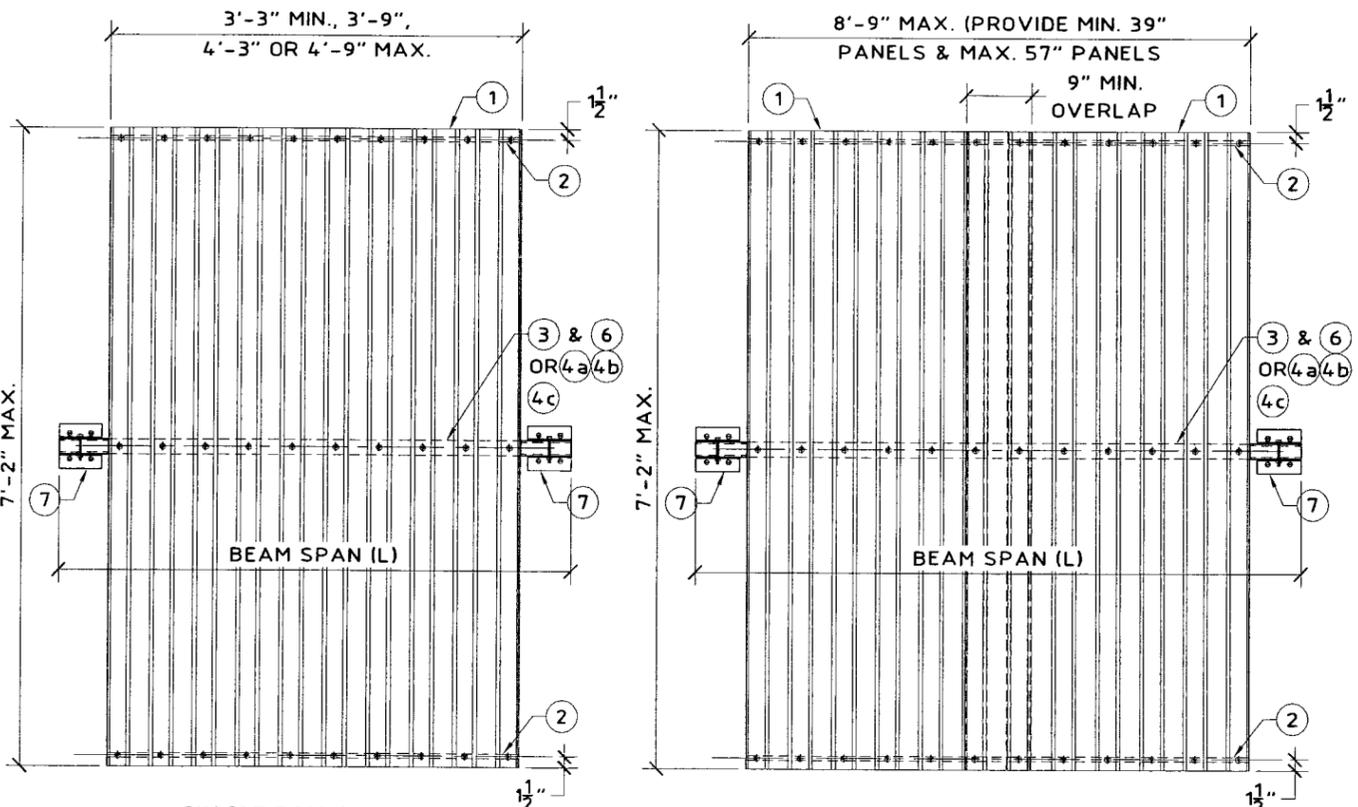
date 03/22/2007
scale AS NOTED
drawing no. 07-447
sheet 1 of 3

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(A) WALL MOUNT SECTION WITH STORM BAR
SCALE: 3" = 1' - 0"

(B) WALL MOUNT PLAN
SCALE: 3" = 1' - 0"



(C) SINGLE PANEL
SCALE: 1/2" = 1' - 0"

(D) OVERLAPPING PANELS
SCALE: 1/2" = 1' - 0"

ELEVATIONS WITH STORM BAR

STORM BAR BEAM TYPE	BEAM SPAN L (IN.)		ANCHORS AT EACH END	
	DESIGN WIND LOAD (PSF)		SUBSTRATE	
	+/-60.0	+/-72.0	CONCRETE OR BLOCK	WOOD
2"x3"x1/4" (4c) OR (3) WITH F-TRACK (6061-T6 OR 6005-T5)	117	108	(4) 1/4"Ø ALL POINTS SOLID SET WITH 7/8" MIN. EMBED. IN C90 HOLLOW BLOCK OR CONCRETE	(4) 1/4"Ø PANELMATE WITH 1-7/8" MIN. EMBED. IN WOOD WITH 3/4" MIN. EDGE DISTANCE
2"x3"x0.18" (4b) OR (3) WITH F-TRACK (6061-T6 OR 6005-T5)	104	96	(4) 1/4"Ø ALL POINTS SOLID SET WITH 7/8" MIN. EMBED. IN C90 HOLLOW BLOCK OR CONCRETE	(4) 1/4"Ø PANELMATE WITH 1-7/8" MIN. EMBED. IN WOOD WITH 3/4" MIN. EDGE DISTANCE
2"x3"x1/8" (4a) OR (3) WITH F-TRACK (6061-T6 OR 6005-T5)	78	72	(2) 1/4"Ø ALL POINTS SOLID SET WITH 7/8" MIN. EMBED. IN C90 HOLLOW BLOCK OR CONCRETE	(4) 1/4"Ø PANELMATE WITH 1-7/8" MIN. EMBED. IN WOOD WITH 3/4" MIN. EDGE DISTANCE

PRODUCT RENEWED
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By *Healy A. Nelson*
Miami Date Product Control Division

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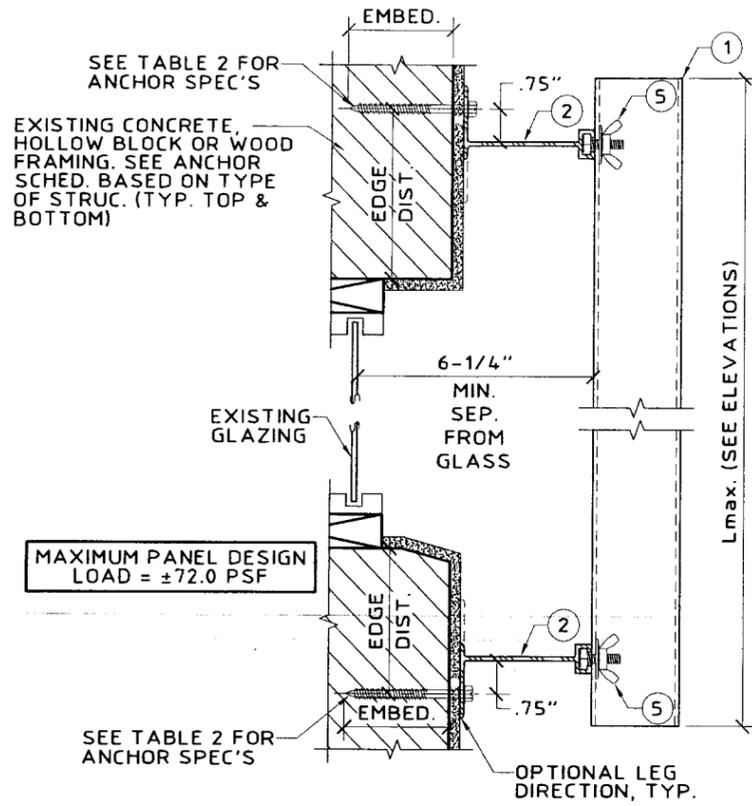
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LEXAN CLEAR STORM PANEL
SABIC Innovative Plastics US LLC
سابق
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Pittsfield, MA 01201

Gary F. Panariello
Professional Engineer
FL License No.: PE 0056153
G. Panariello
FEB 15 2008

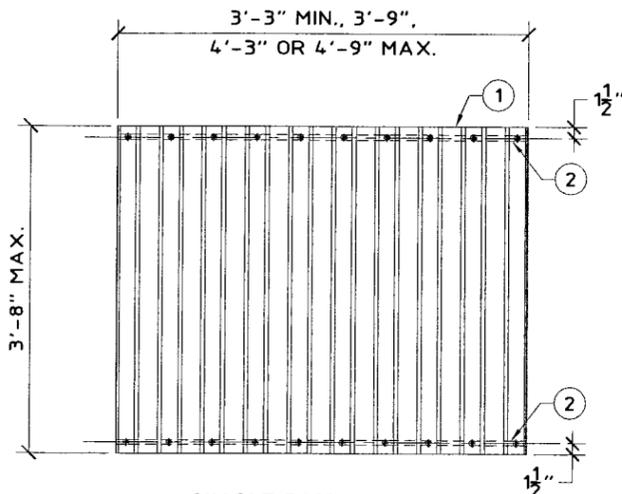
no.	date	by	description
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2	05/17/2007	JWK	COUNTY COMMENTS

revisions
date 03/22/2007
scale AS NOTED drawn by MCR
design by NW checked by JWK
drawing no. 07-447
sheet 2 of 3

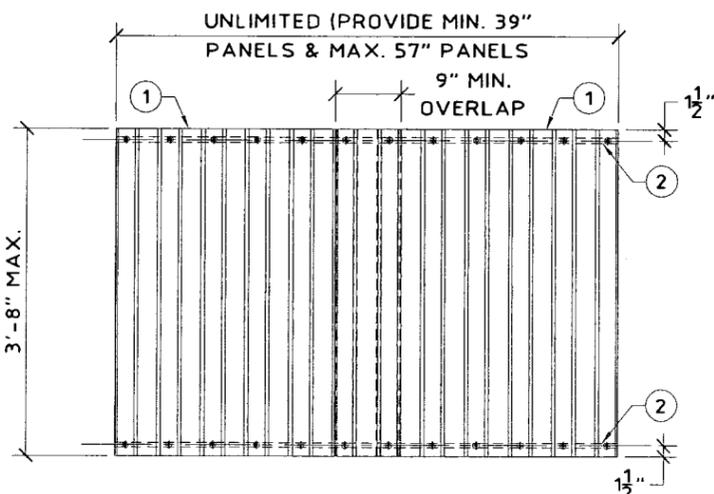


E WALL MOUNT SECTION WITH NO STORM BAR
SCALE: 3" = 1' - 0"

ANCHOR TYPE	SUBSTRATE		
	CONCRETE	BLOCK	WOOD
1/4" ITW TAPCON WITH 1-3/4" MIN. EMBEDMENT IN CONCRETE OR 1-1/4" MIN. EMBEDMENT IN BLOCK	12"	6"	N/A
1/4" ITW MAXI-SET WITH 1-3/4" MIN. EMBEDMENT IN CONCRETE OR 1" MIN. EMBEDMENT IN BLOCK	12"	4"	N/A
1/4" ELCO ULTRACON WITH 1-3/4" MIN. EMBEDMENT IN CONCRETE OR 1-1/4" MIN. EMBEDMENT IN BLOCK	12"	7"	N/A
1/4" ALL POINTS SOLID SET WITH 7/8" MIN. EMBEDMENT IN CONCRETE OR BLOCK	12"	12"	N/A
1/4" WOOD LAG SCREW WITH 1-7/8" MIN. EMBEDMENT IN WOOD	N/A	N/A	12"
1/4" ELCO PANELMATE WITH 1-3/4" MINIMUM EMBEDMENT IN WOOD	N/A	N/A	12"



F SINGLE PANEL
SCALE: 1/2" = 1' - 0"



G OVERLAPPING PANELS
SCALE: 1/2" = 1' - 0"

ELEVATIONS WITH NO STORM BAR

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SABIC Innovative Plastics US LLC
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Pittsfield, MA 01201

Gary F. Panariello
Professional Engineer
FL License No.: PE 0056153
FEB 15 2008

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no	date	by	description
1	05/07/2007	JWK	PRODUCT DESCRIPTION
2	05/17/2007	JWK	COUNTY COMMENTS

revisions

date 03/22/2007

scale AS NOTED drawn by MCR

design by NW checked by JWK

drawing no. 07-447

sheet 3 of 3

LSI.D. # 08021506483D