



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

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

Pittsburgh Corning Corporation
 800 Presque Isle Drive
 Pittsburgh, PA 15239

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: Hurricane Resistant Glass Block Panels

APPROVAL DOCUMENT: Drawing No. HRGBP, titled "High Performance Systems Hurricane-Resistant Glass Block Panels", sheets 1 through 3 of 3, dated 01/10/2014, with last revisions dated 04/01/2014, prepared by Pittsburgh Corning Corporation, signed and sealed by Hermes F. Norero, 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, model/series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

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

This NOA revises NOA # 13-1028.02 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



[Handwritten Signature]
 08/14/2014

NOA No. 14-0129.17
 Expiration Date: October 16, 2018
 Approval Date: August 21, 2014
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. HRGBP, titled "High Performance Systems Hurricane-Resistant Glass Block Panels", sheets 1 through 3 of 3, dated 01/10/2014, with last revisions dated 04/01/2014, prepared by Pittsburgh Corning Corporation, signed and sealed by Hermes F. Norero, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC, TAS 202-94
along with marked-up drawings and installation diagram of High Performance Hurricane Resistant Glass Block Panels, prepared by Architectural Testing, Inc., Test Report No. D1178.01-501-18, dated 12/03/2013, signed and sealed by Michael D. Stremmel, P.E.

"Submitted under NOA # 11-1229.03"

2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of LightWise Architectural Hurricane Resistant Windows, prepared by Architectural Testing, Inc., Test Report No. B2913.01-501-18, dated 10/28/2011, signed and sealed by Michael D. Stremmel, P.E.

"Submitted under NOA # 08-0731.08"

3. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of KWIK'N EZ Rigid Track Silicone System THICKSET 90 Glass Block with 2-pc. Aluminum Channel, prepared by Architectural Testing, Inc., Test Report No. 79308.01-501-18, dated 03/26/2008, signed and sealed by Michael D. Stremmel, P.E.



Carlos M. Utrera, P.E.

Product Control Examiner

NOA No. 14-0129.17

Expiration Date: October 16, 2018

Approval Date: August 21, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Product evaluation report # 2666 prepared by Building Drops, Inc., complying with the 2010 FBC, dated 01/09/2014, signed and sealed by Hermes F. Norero, P.E.

"Submitted under NOA # 11-1229.03"
2. Anchor verification calculations prepared by Building Drops, Inc., complying with the 2007 and 2010 F.B.C, dated 12/08/2011, signed and sealed by Alexis Spyrou, P.E.

"Submitted under NOA # 08-0731.08"
3. Anchor verification calculations prepared by Engineering Analytics, Inc., complying with F.B.C 2004, dated 07/29/2008, signed and sealed by Carol D. Hays, Ph.D., P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13-0708.08**, issued to Cardinal Systems, Inc., for their PVC Extrusions used as glass block spacers, approved on 09/12/2013 and expiring on 12/11/2015.

F. STATEMENTS

1. Statement letter of code conformance to 2010 FBC and no financial interest issued by Building Drops, Inc., dated 01/24/2014, signed and sealed by Hermes F. Norero, P.E.

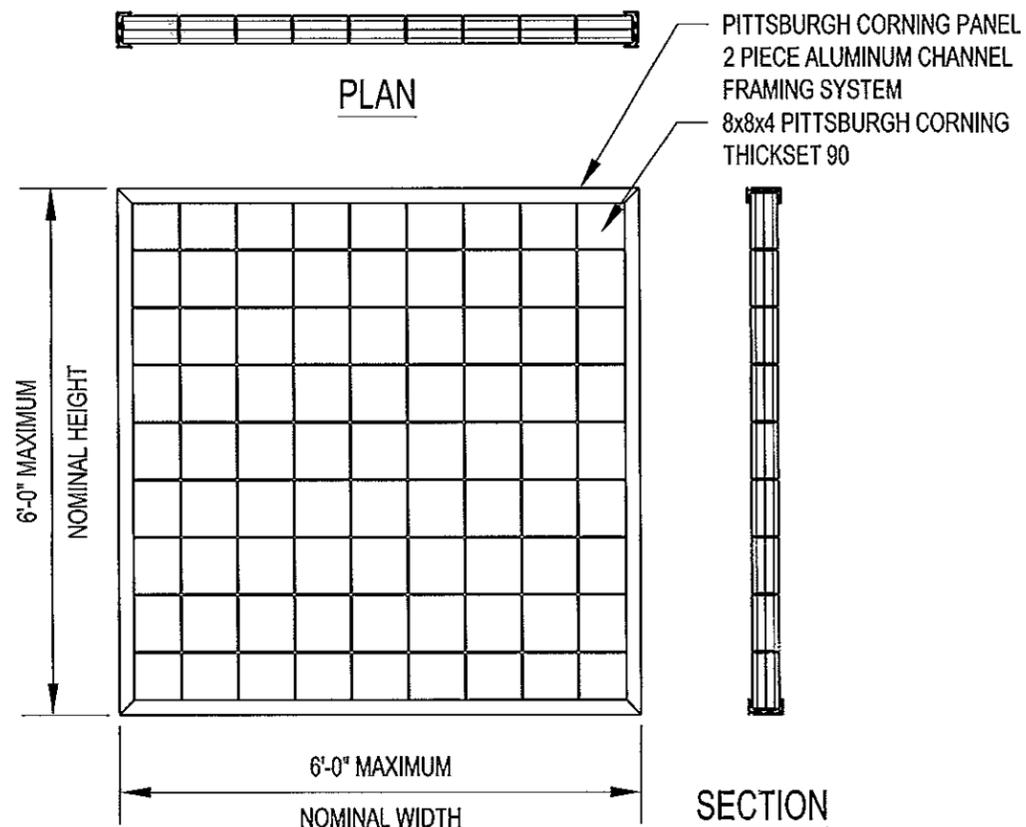
"Submitted under NOA # 08-0731.08"
2. Laboratory compliance letter issued by Architectural Testing, Inc., for Test Report No. **79308.01-501-18**, dated 03/27/2008, signed and sealed by Michael D. Stremmel, P.E.



08/14/2014

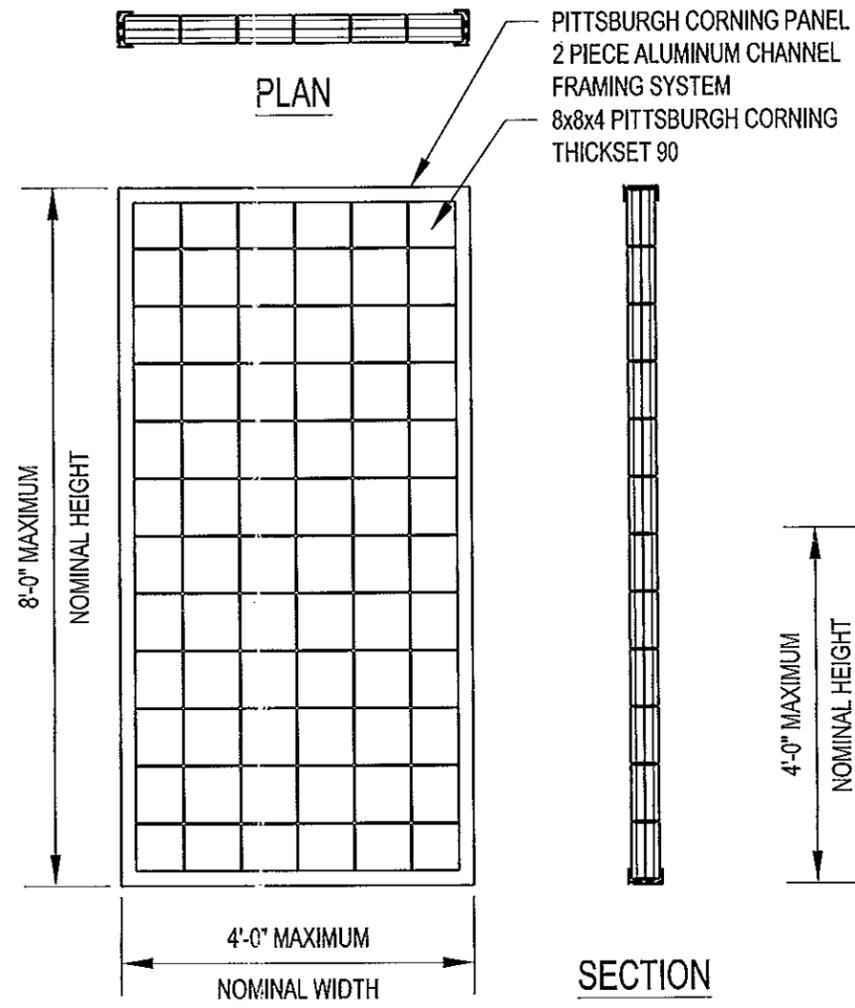
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 14-0129.17
Expiration Date: October 16, 2018
Approval Date: August 21, 2014

REVISIONS		
REV	DESCRIPTION	DATE
1	ADDED DLO (DAYLIGHT OPENING) TO ELEVATIONS	04/01/2014



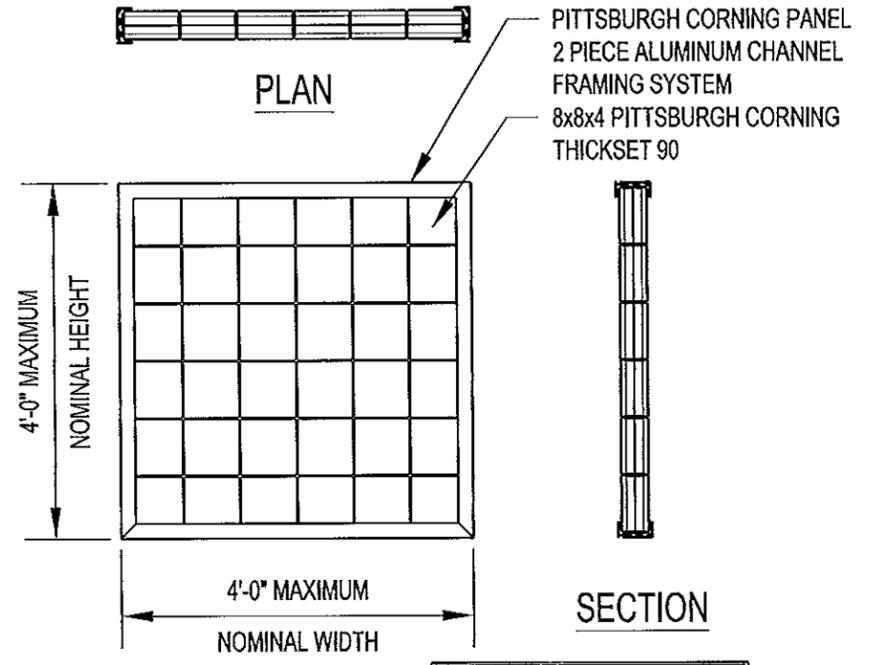
ELEVATION
9 BLOCKS x 9 BLOCKS
D.L.O.: 67 7/8" x 67 5/8"

IMPACT RESISTANT
DESIGN PRESSURE RATING
± 68.0 PSF



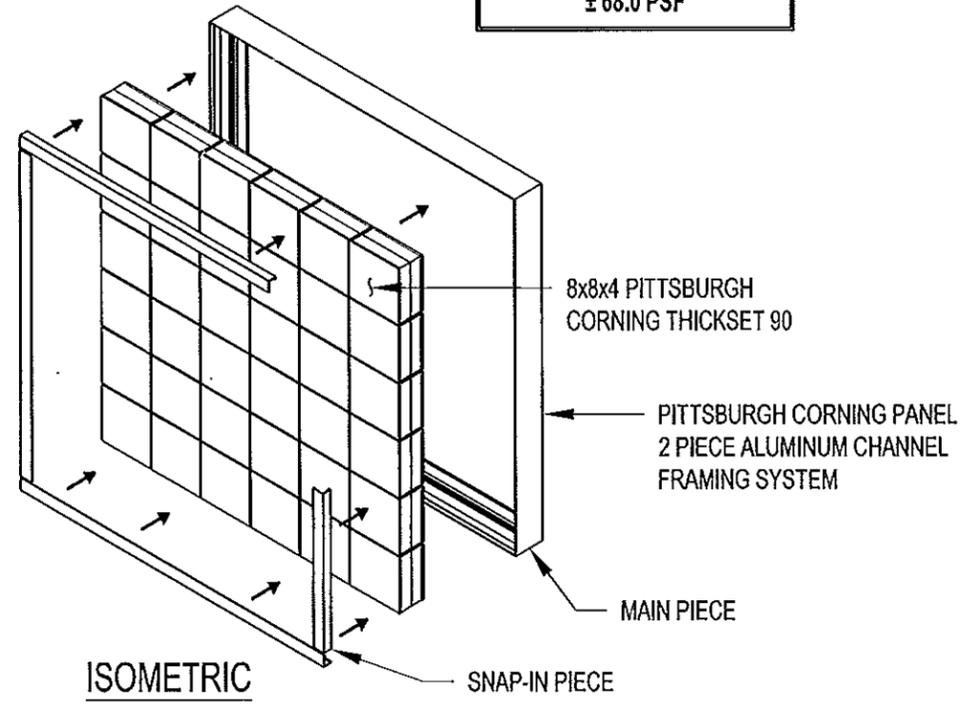
ELEVATION
6 BLOCKS x 12 BLOCKS
D.L.O.: 44 3/8" x 91 1/8"

IMPACT RESISTANT
DESIGN PRESSURE RATING
± 80.0 PSF



ELEVATION
6 BLOCKS x 6 BLOCKS
D.L.O.: 44 3/8" x 44 1/8"

IMPACT RESISTANT
DESIGN PRESSURE RATING
± 100.0 PSF



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0129-17
Expiration Date 10/16/2018
By *[Signature]*
Miami Date Product Control

[Signature]
4-9-2014

HERMES F. N'ORERO, P.E.
FLORIDA P.E. NO. 73773
398 E. DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

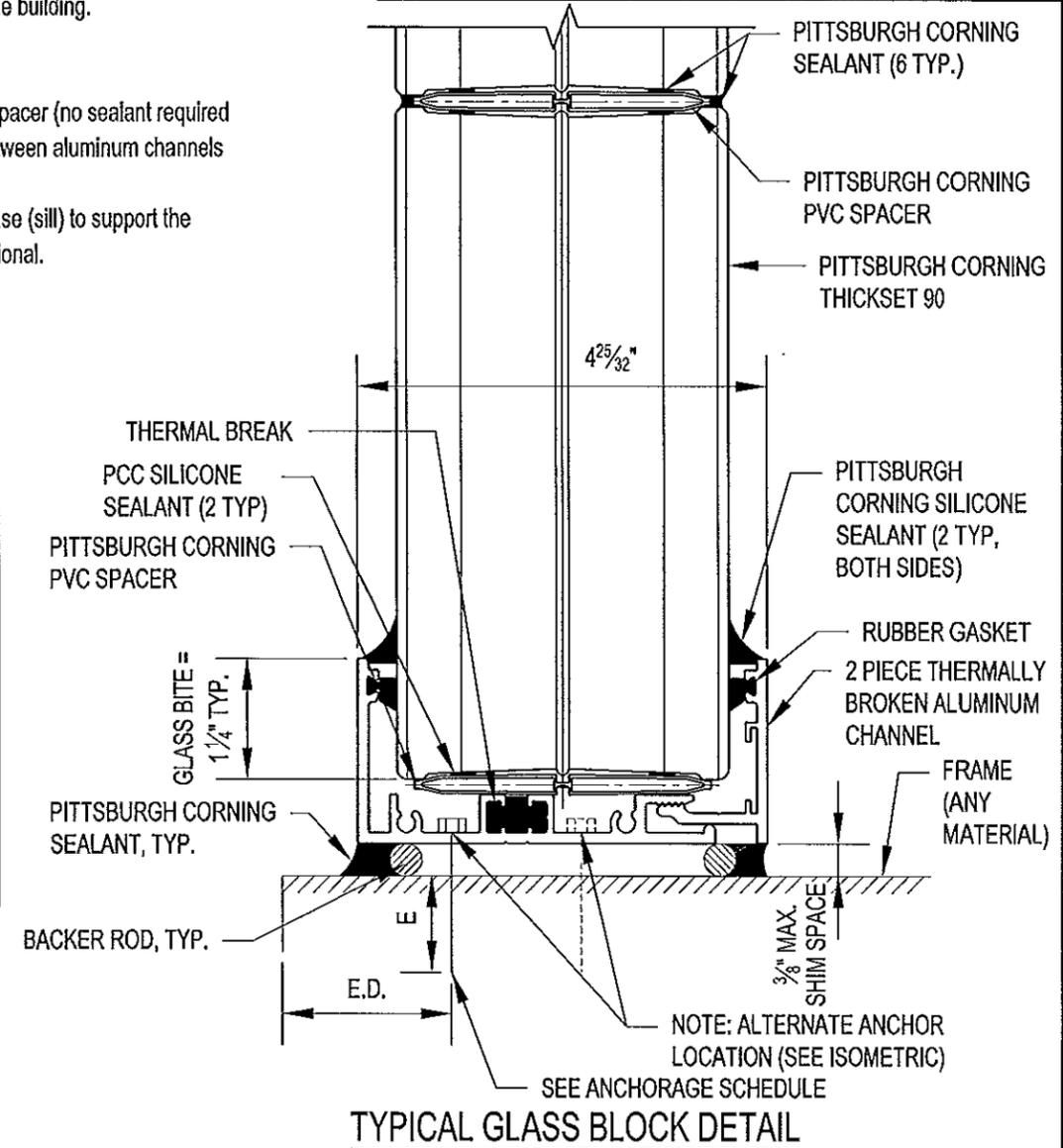
TITLE			
High Performance Systems Hurricane-Resistant Glass Block Panels			
PITTSBURGH CORNING CORP. 800 PRESQUE ISLE DRIVE PITTSBURGH, PA 15239			
SCALE	DWG. NO.	REV	
1/2" = 1'-0"	HRGBP-001	1	
BY	DATE	SHEET	
LBA	01/10/2014	1 OF 3	

SPECIFICATION NOTES:

- **GLASS BLOCK UNITS:** Thickset ® 90 Series 8"x8"x4" (nominal size) and all other smaller face sizes, as manufactured by Pittsburgh Corning Corporation.
- **SUPPORTING FRAME:** A 1/8" thick two-piece aluminum channel with a thermal break, as available from Pittsburgh Corning Corporation. The two pieces consist of a base receptor that is directly anchored to any substrate listed in Anchorage Schedule below. Glass block may be installed within the base receptor with prefabricated sections, or may be installed with one complete prefabricated unit. The snap-on piece is secured with a rubber mallet after the glass blocks have been placed. Frame orientation can accommodate installation from either the exterior or interior side of the building.
- **PLASTIC SPACERS:** Extruded white rigid PVC. Rigid PVC plastic spacers extruded by Cardinal Systems, Inc. approved by Miami-Dade (NOA).
- **SEALANT:** Pittsburgh Corning Glass Block Sealant. One part neutral fast curing structural silicone sealant.
- **SEALANT LOCATIONS:** All horizontal and vertical exterior glass block joints; two beads above supporting PVC base spacer; two beads each above and below "long" horizontal spacer (no sealant required for "short" vertical spacers); perimeter joints between glass block and aluminum channel legs and over the rubber gaskets (both exterior and interior sides); and perimeter joints between aluminum channels and substrate walls (both exterior and interior sides).
- **REINFORCEMENT:** Rigid PVC spacers between all horizontal and vertical glass block joints. Rigid PVC spacer is required within the two-piece aluminum channel frame at the base (sill) to support the glass block panel and to protect the glass block edges. Placement of rigid PVC spacers at sides (jamb) and top of glass block panel within the two-piece aluminum channel is optional.
- **SHIM SPACES:** Maximum 3/8" shim space per side for all panel sizes.
- **FRAME CORNER CONSTRUCTION:** Each corner was mitered and fastened with (2) #10 x 2" long screws and sealed with silicone.

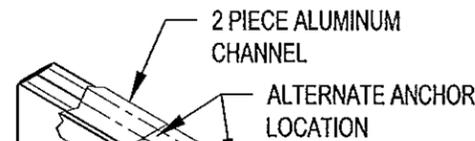
REVISIONS		
REV	DESCRIPTION	DATE
1	ADDED GLASS BITE TO GLASS BLOCK DETAIL	04/01/2014
2	ADDED FRAME CORNER CONSTRUCTION TO SPECIFICATION NOTES	04/01/2014

ANCHORAGE SCHEDULE (NOTE: ALTERNATE ANCHOR LOCATION, SEE ISOMETRIC)					
SUBSTRATE	MATERIAL DATA	FASTENER	SPACING	MIN. EMBEDMENT (E)	MIN. EDGE DISTANCE (E.D.)
STEEL	MIN. 18 GA. f _y = 36 KSI	HILTI KWIK FLEX S-MD 1/4" - 14 x 1 1/2" HWH4 KF HEX HEAD SCREWS	2" FROM CORNER, 12" O.C.	3 THREADS PENETRATION BEYOND STEEL FRAMING	N/A
CONCRETE	MIN. f _c = 3000 PSI	HILTI KWIK CON II 1/4" x 2 1/4" THWH HEX HEAD SCREWS	2" FROM CORNER, 12" O.C.	1 1/4"	2 1/2"
MASONRY	CONFORMS TO ASTM C90 GROUT CONFORMS TO ASTM C476 MIN. GROUT f _c = 2000 PSI	HILTI KWIK CON II 1/4" x 2 1/4" THWH HEX HEAD SCREWS	2" FROM CORNER, 12" O.C.	1 1/4"	2 1/2"
WOOD	MIN. S.G. = 0.55	SLOT HEX WASHER SMS #10 x 2" SCREWS	2" FROM CORNER, 8" O.C.	1 1/2"	N/A



INSTALLATION NOTES:

- Complete Window System only available from Pittsburgh Corning Corporation.
- This System is not intended to be installed piece by piece with spacers.
- Separate dissimilar materials.

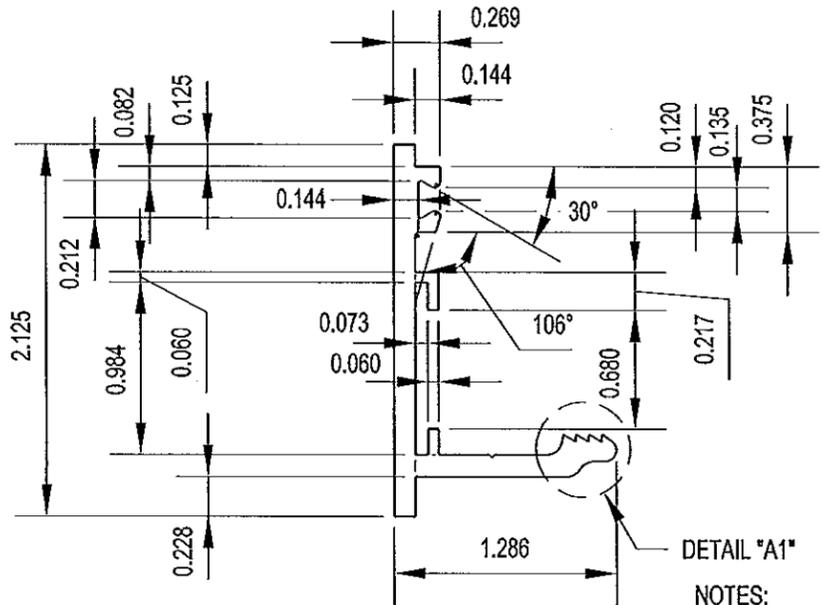


2 PIECE ALUM. CHANNEL ISOMETRIC

PITTSBURGH CORNING GLASS BLOCK			
SERIES	PATTERN	NOMINAL DIM.	FACE THICKNESS
THICKSET® 90	DECORA®	8"x8"x4" AND ALL OTHER SMALLER FACE SIZES	0.75 IN.
THICKSET® 90	VUE®	8"x8"x4" AND ALL OTHER SMALLER FACE SIZES	0.75 IN.
THICKSET® 90	ENDURA®	8"x8"x4" AND ALL OTHER SMALLER FACE SIZES	0.75 IN.

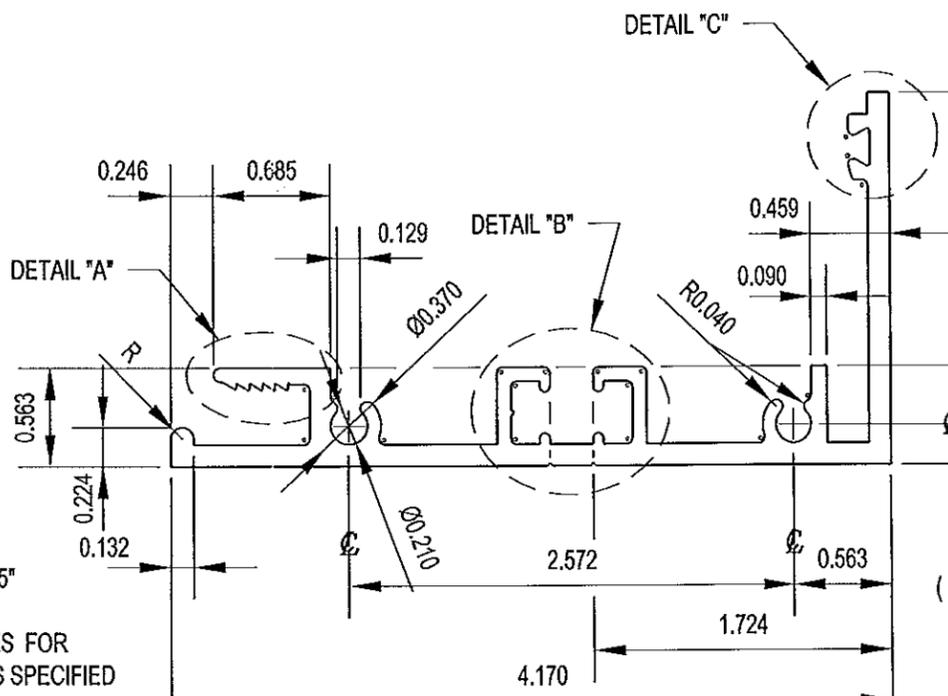
<p>PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-0129.17 Expiration Date 10/16/2018 By <i>[Signature]</i> Miami Dade Product Control</p> <p>HERMES F. MONERO, P.E. FLORIDA P.E. NO. 73778 303 F. DANIA BEACH BLVD, STE. 334 DANIA BEACH, FL 33004 FBPE CERT. CF AUTHORIZATION NO. 29578</p> <p>4-9-2014</p>	<p>TITLE High Performance Systems Hurricane-Resistant Glass Block Panels</p> <p>PITTSBURGH CORNING CORP. 800 PRESQUE ISLE DRIVE PITTSBURGH, PA 15239</p>	
	<p>SCALE 1:2</p> <p>BY LBA</p>	<p>DWG. NO. HRGBP-002</p> <p>DATE 01/10/2014</p>

REVISIONS		
REV	DESCRIPTION	DATE

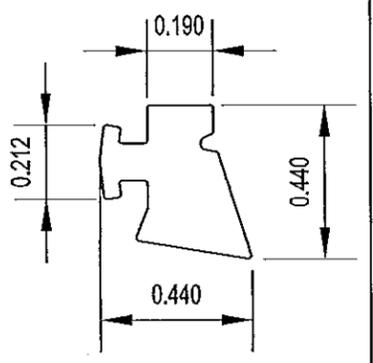


SECONDARY ALUMINUM CHANNEL TO SNAP ON
SCALE 1:1

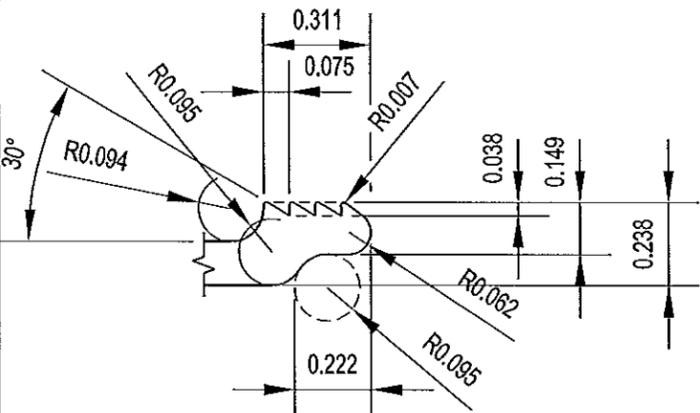
NOTES:
UNSPECIFIED WALL THICKNESS = 0.125"
ALLOY - 6063 / T6
STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED PRODUCTS APPLY UNLESS SPECIFIED OTHERWISE
BREAK EXT. CORNERS 0.015" RADIUS OR AS NOTED



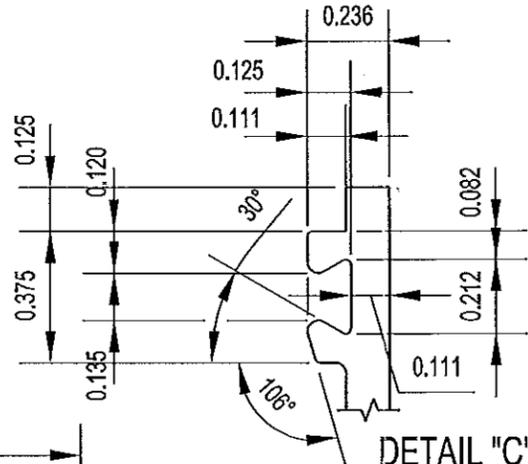
PRIMARY ALUMINUM CHANNEL
SCALE 1:1



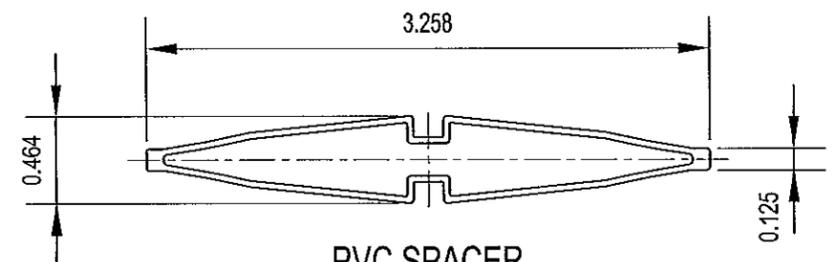
GASKET
SCALE 2:1



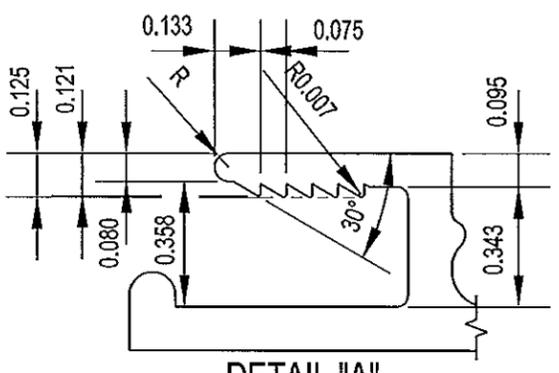
DETAIL "A1"
SCALE 2:1



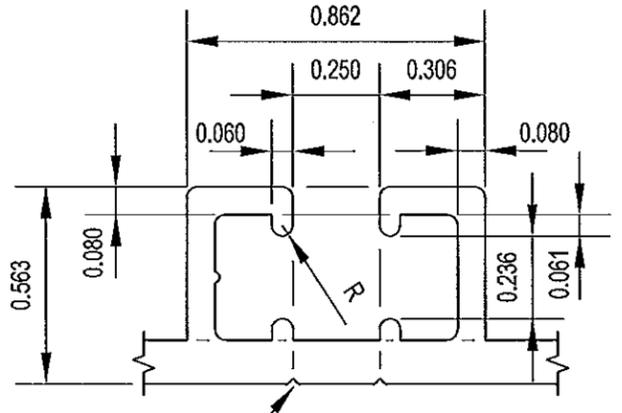
DETAIL "C"
SCALE 2:1



PVC SPACER
PART NO. QP-0514,
CARDINAL SYSTEMS INC.
APPROVED BY MIAMI-DADE (NOA)
SCALE 1:1



DETAIL "A"
SCALE 2:1



DETAIL "B"
SCALE 2:1
.015DP X 90°(2)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0129.17
Expiration Date 10/16/2018
By [Signature]
Miami Dade Product Control

[Signature]
4-9-2014
HEIMES F. YORCRO, P.E.
FLORIDA P.E. NO. 7317A
386 E. DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

TITLE High Performance Systems Hurricane-Resistant Glass Block Panels			
PITTSBURGH CORNING CORP. 800 PRESQUE ISLE DRIVE PITTSBURGH, PA 15239			
SCALE VARIES	DWG. NO. HRGBP-003	REV 0	
BY LBA	DATE 01/10/2014	SHEET 3 OF 3	