



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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Vertech Fenexpert, Inc.
4275 Grande-Allee
Boisbriand, Quebec, J7H 1M7 Canada

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Aquilon" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **AQ1_FIX-LMI**, titled "Aquilon Series Aluminum Fixed Glass Door Large Missile Impact", sheets 1 through 5 of 5, dated 09/18/08, with revision 1 dated 09/25/09, prepared by Bromley-Cook Engineering, Inc. signed and sealed by William D. Cook, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

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 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 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 **Jaime D. Gascon, P.E.**



J. Gascon
 10/20/09

NOA No. 09-0505.06
Expiration Date: November 11, 2014
Approval Date: November 11, 2009

Vertech Fenexpert, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **AQ1_FIX-LMI**, titled: "Aquilon Series Aluminum Fixed Glass Door Large Missile Impact", sheets 1 through 5 of 5, dated 09/18/08, with revision 1 dated 09/25/09, prepared by Bromley-Cook Engineering, Inc. signed and sealed by William D. Cook, 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
along with marked-up drawings and installation diagram of series Aquilon aluminum fixed panel, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5721**, dated 09/05/08, signed and sealed by Carlos S. Rionda, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 09/28/09, prepared by Bromley-Cook Engineering, Inc., signed and sealed by William D. Cook, P.E.
Complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.
2. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their "**Vanceva Composites Glass Interlayer**" dated 7/17/08, expiring on 12/11/13.
3. Notice of Acceptance No. **07-0924.03** issued to Hilti, Inc. for their "**Hilti Kwik Con II Concrete Anchor**", dated 02/07/08, expiring on 08/03/12.



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No. 09-0505.06
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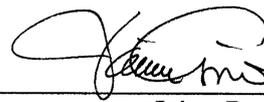
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated April 30, 2009, signed and sealed by William D. Cook, P.E.
2. Independence statement letter for Test Report No. **FTL-5721**, issued by Fenestration Testing Laboratory, dated October 8, 2008, signed by Manny Sanchez, CEO
3. Distributor Agreement document in conformance to BCCO guidelines dated September 30, 2009, signed by Martin Bergeron and Ivan S. Girard.

G. OTHERS

1. None.



Jaime D. Gascon, P.E.
Chief, Product Control Division
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SERIES AQUILON ALUMINIUM FIXED GLASS WINDOW PANEL (LARGE MISSILE IMPACT)

GENERAL NOTES:

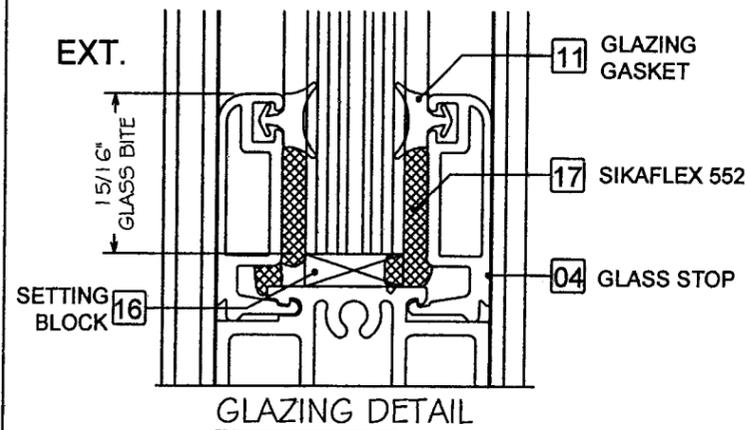
- 1) THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) 1X WOOD BUCK OR STEEL SUBSTRATE TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. BUCK OR FRAMING IS RESPONSIBILITY OF ARCHITECT/ENGINEER OF RECORD.
- 3) SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
- 4) ONE-THIRD (33%) INCREASE IN ALLOWABLE STRESS FOR WINDLOAD DESIGN NOT USED.

DESIGN PRESSURE MAX:
+120.0, -130.0 PSF

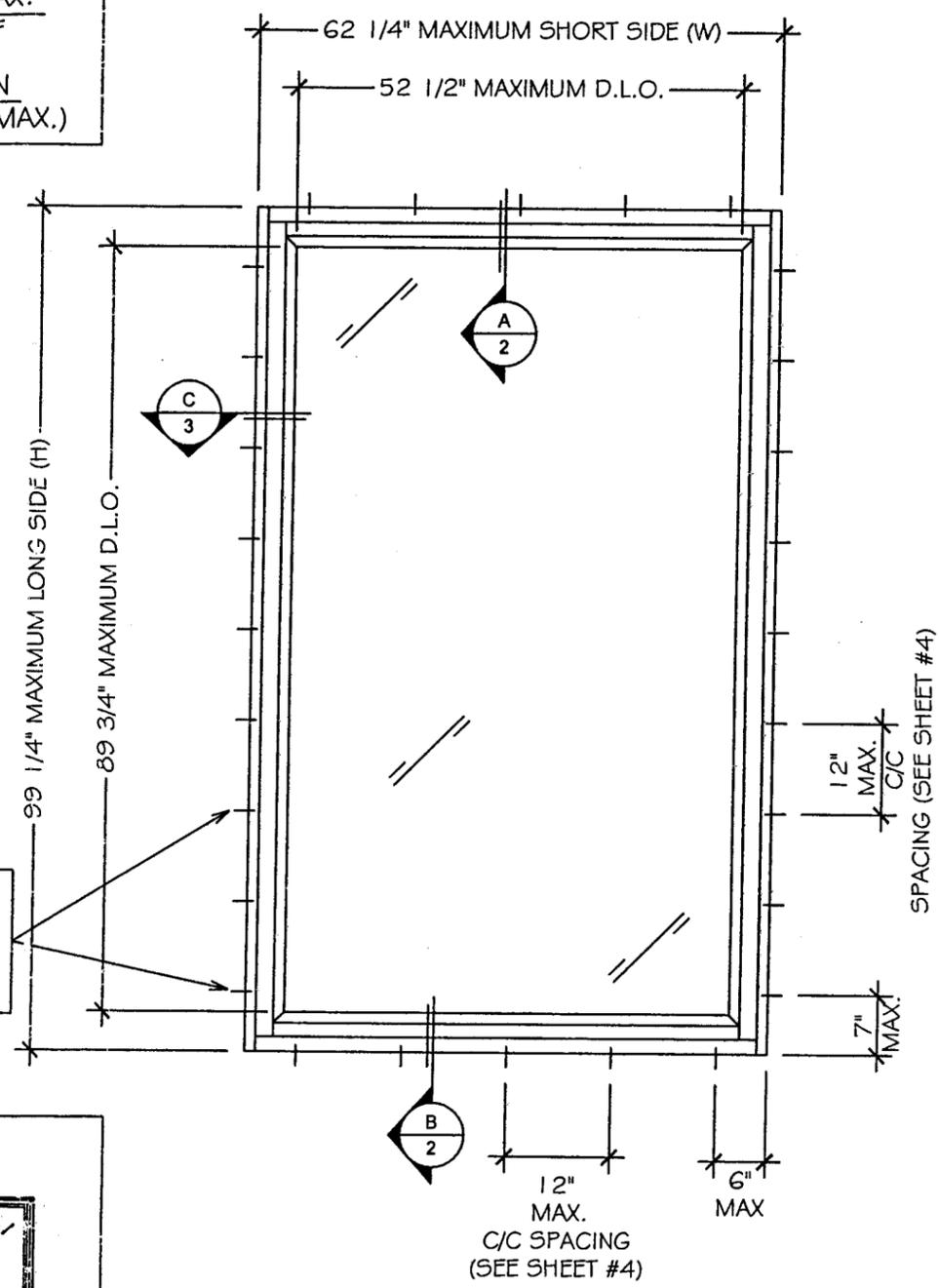
WATER INFILTRATION
+21 PSF (+120 PSF MAX.)

GLAZING OPTIONS:

- A) 9/16" LAMINATED : 1/4" HEAT STRENGTHENED GLASS-0.090 SENTRY GLASS PLUS (SGP) DU PONT INTERLAYER-1/4" HEAT STRENGTHENED GLASS.
- B) 9/16" LAMINATED : 1/4" HEAT STRENGTHENED GLASS-0.075 VANCEVA COMPOSITE SOLUTIA INTERLAYER-1/4" HEAT STRENGTHENED GLASS.



NOTE: ANCHOR LOCATIONS
SEE SHEET #4 FOR
ANCHOR SPACING SCHEDULE
AND ALLOWABLE SHIM GAPS

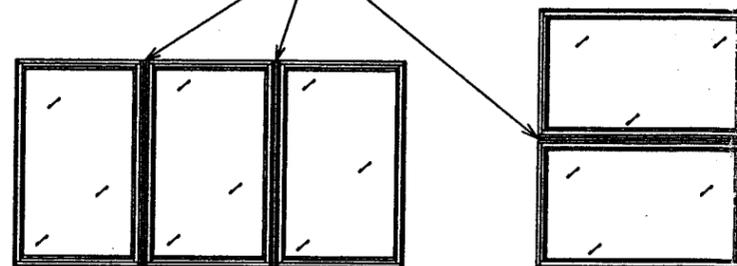


INSTALLATION WITH MULLIONS:

FOR SIDE BY SIDE OR STACKED CONFIGURATION

- 1) USE MIAMI-DADE APPROVED CLIPED MULLION UNDER SEPARATE APPROVAL OR STRUCTURAL FRAMING ENGINEERED SEPARATELY.
- 2) MULLION END LOAD REACTIONS AND ANCHORS TO BE DETERMINED IN ACCORDANCE WITH THE MULLION APPROVAL AND SHALL BE REVIEWED BY BUILDING OFFICIAL.
- 3) LOWER DESIGN PRESSURE OF MULLION OR WINDOW ASSEMBLY SHALL CONTROL.

APPROVED CLIPPED MULLION
OR STRUCTURAL FRAMING.



TYPICAL CONFIGURATIONS

VERTECH
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CANADA

4275 GRANDE-ALLEE
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ENGINEER:

BROMLEY-COOK ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FL 33309
CERT. OF AUTH: 00009124

SEAL:

SEP 28 2009

WILLIAM D. COOK P.E., S.E.C.B.
P.E. #43904 S.I. #2008

Approved as complying with the
Florida Building Code
Date 11/11/09
NOA# 09-0505.06
Miami Dade Product Control
Division
By *[Signature]*

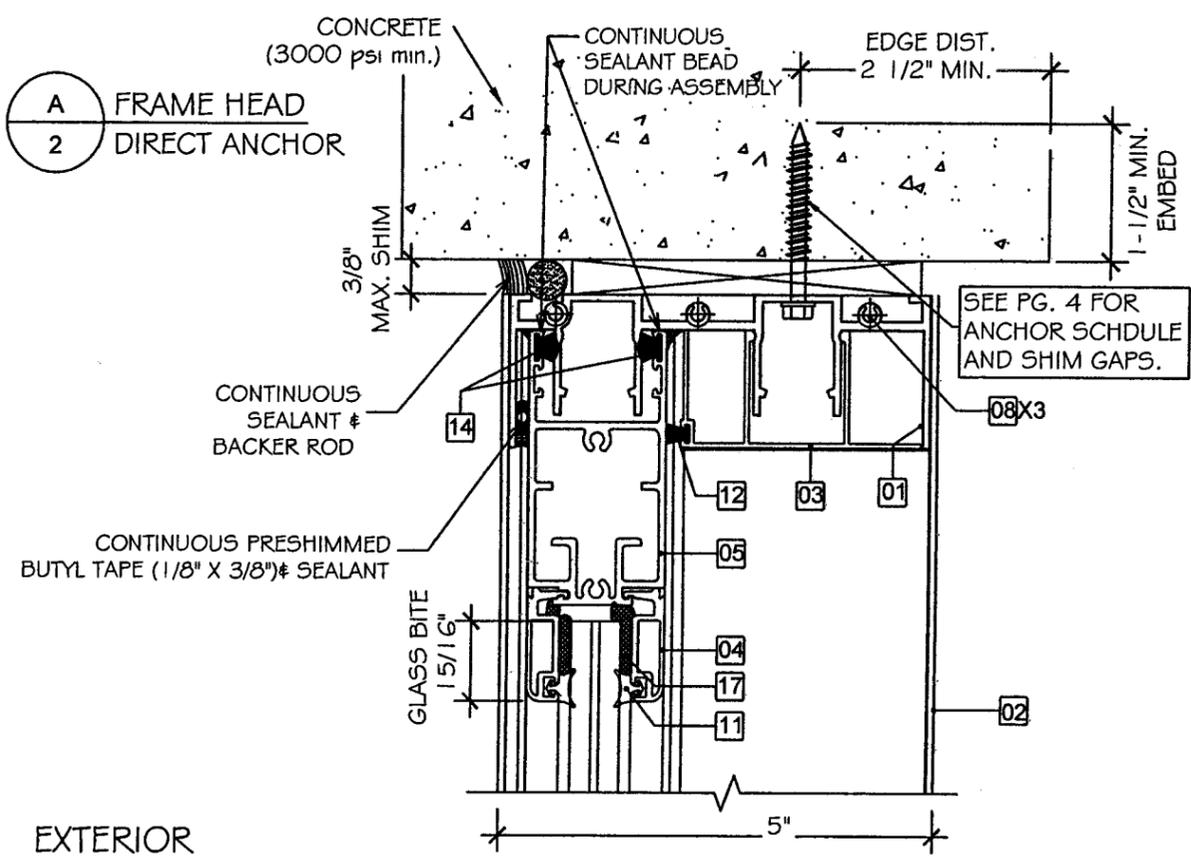
PROJECT:

AQUILON SERIES
ALUMINUM FIXED GLASS DOOR
LARGE MISSILE IMPACT

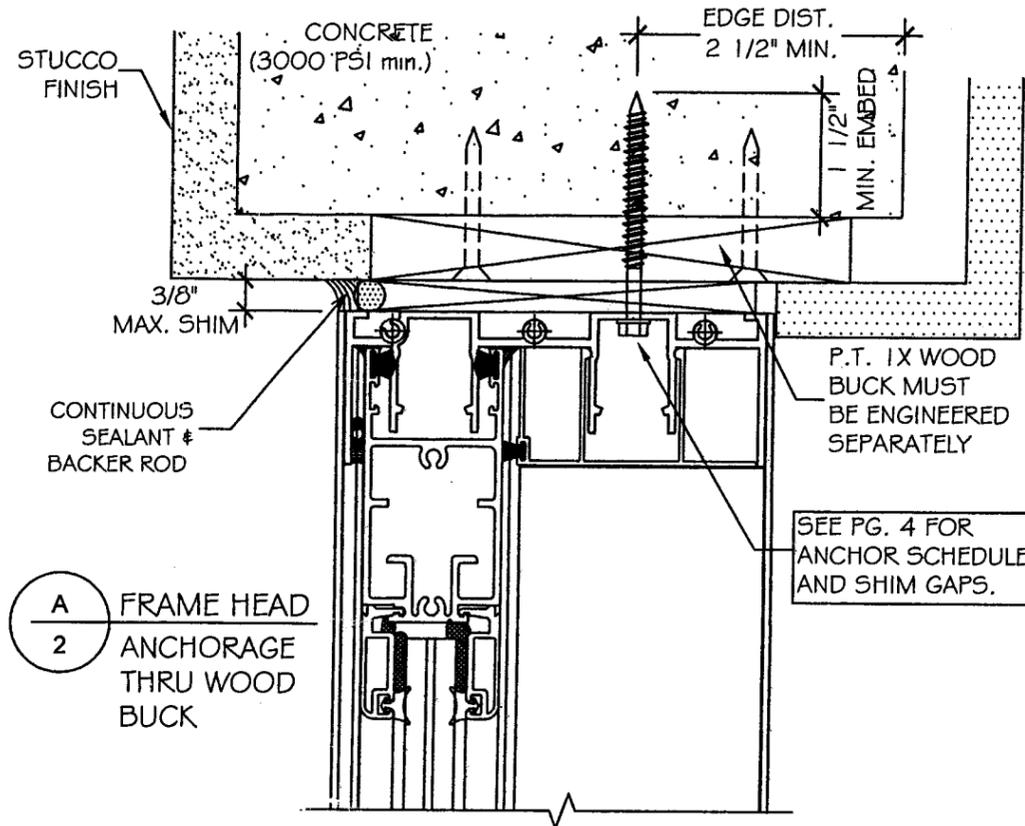
TITLE:

MIAMI-DADE COUNTY
PRODUCT CONTROL NOTICE OF
ACCEPTANCE DRAWINGS

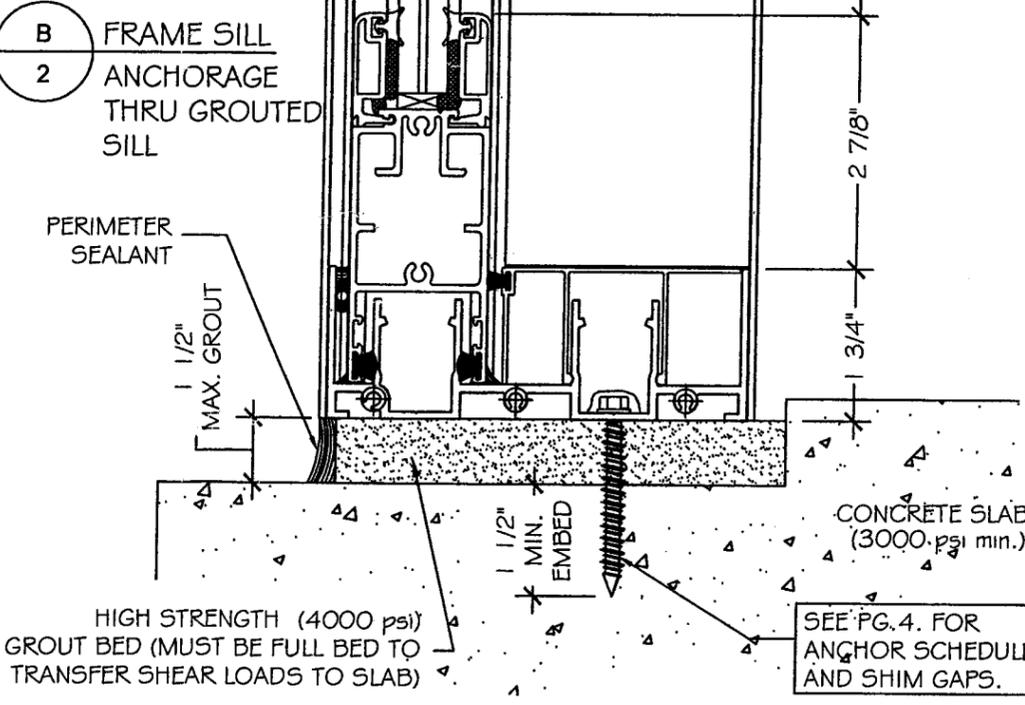
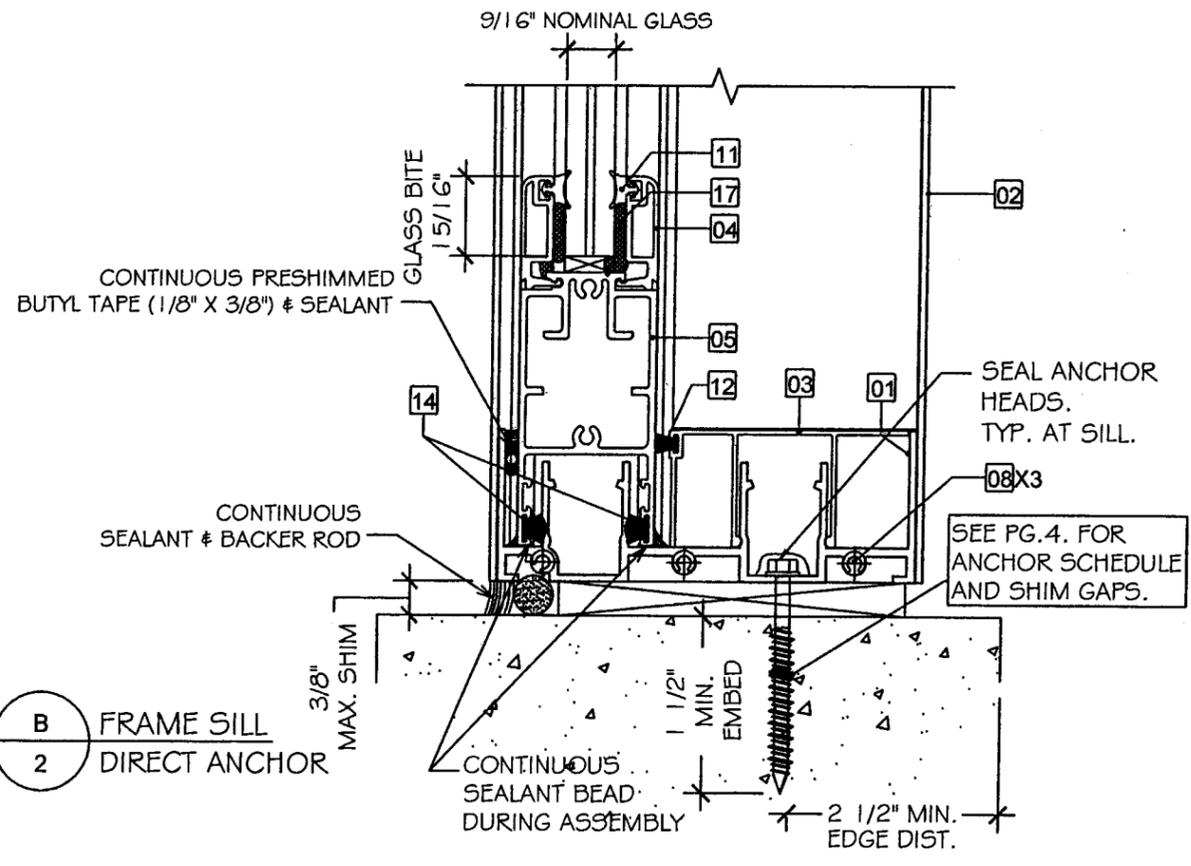
	9/25/09	REVISED PER MDCCO COMMENTS					
DRAWN BY:	CG	VERIFY BY:	JFR				
DATE:	09/18/2008	DWG. NO.:	AQ1_FIX-LMI				
SCALE:	1:16	SHEET NO.:	1 OF 5				



EXTERIOR



EXTERIOR



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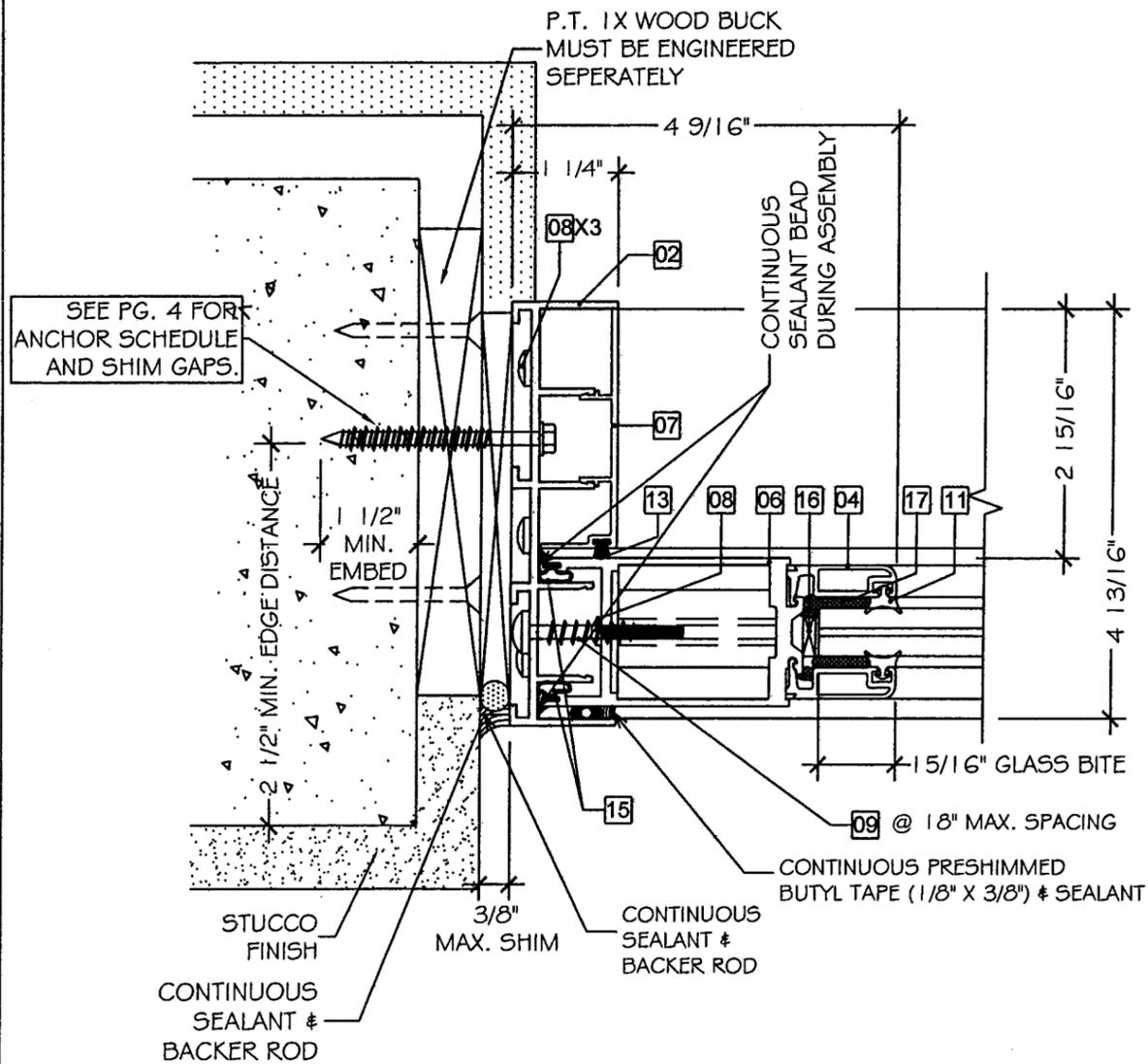
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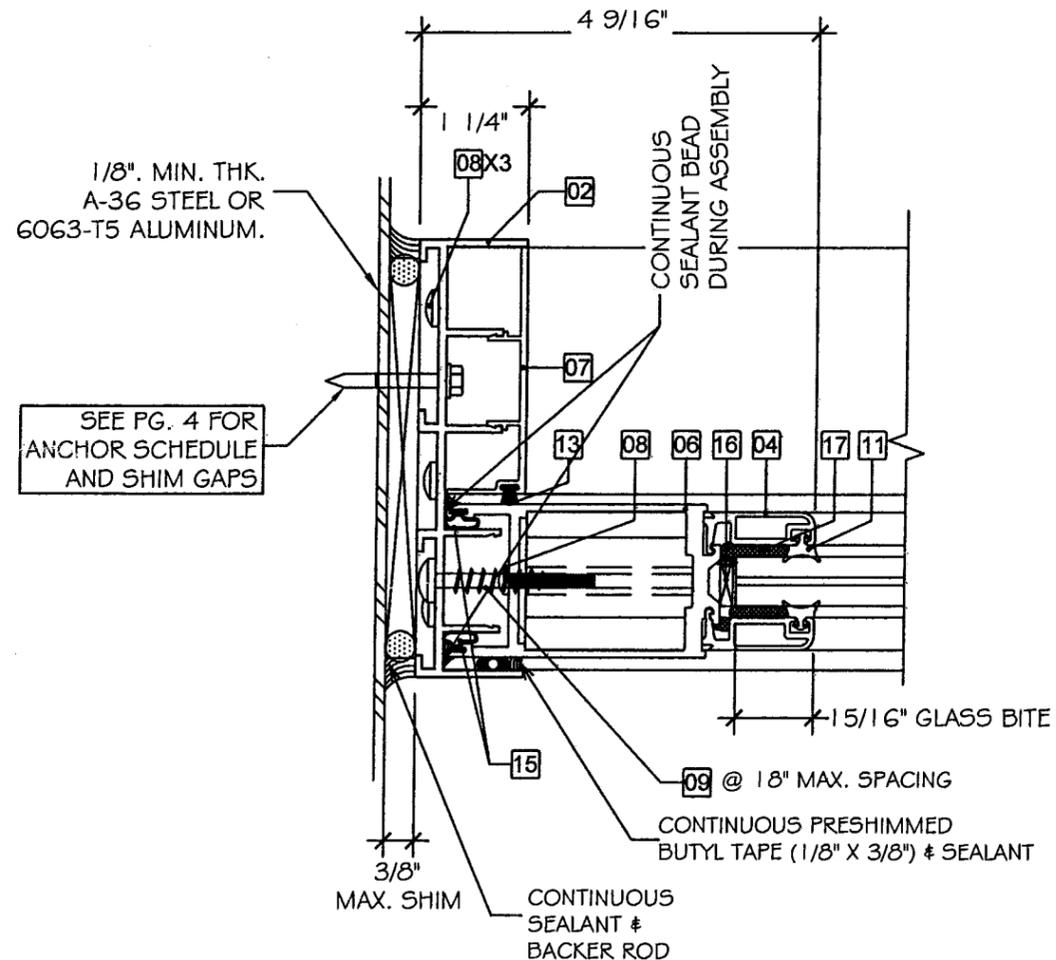
PROJECT:
AQUILON SERIES
ALUMINUM FIXED GLASS DOOR
LARGE MISSILE IMPACT

TITLE:
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SCALE:	1:2	SHEET NO.	2 OF 5



C FRAME JAMB
 3 ANCHORAGE THRU 1X WOOD BUCK
 EXTERIOR



C FRAME JAMB
 3 ANCHORAGE THRU METAL SUBSTRATE
 EXTERIOR



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AQUILON SERIES
ALUMINUM FIXED GLASS DOOR
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SCALE: 1:2		SHEET NO. 3 OF 5

ANCHOR TYPES:

DIRECTLY INTO GROUT FILLED MASONRY OR 3000 PSI CONCRETE OR THRU 1 X PT BUCK AND INTO GROUT FILLED MASONRY OR CONCRETE.

USE: 1/4" DIA. RAWL TAPPER OR HILTI KWIK-CON II.
 EMBED 1 1/2" MIN. BEYOND STUCCO.
 MIN. EDGE DIST= 2 1/2", MIN. SPACING = 3"

(Fu=120KSI Fy=92KSI)

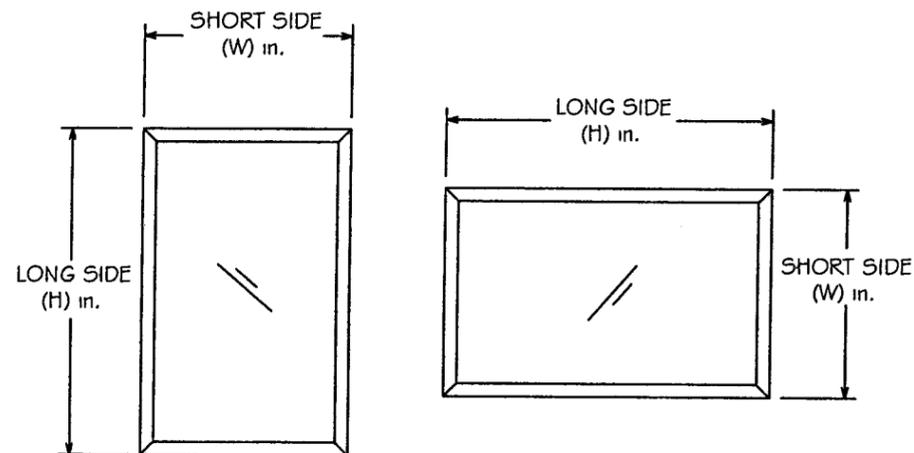
INTO 1/8" MIN. STEEL OR ALUMINUM (6063-T5).

USE: #14 ELCO DRILL FLEX STRUCTURAL SELF DRILLING FASTENER.

(Fu=120KSI Fy=92KSI)

ANCHORAGE NOTES:

- 1) SHIM GAP AS SHOWN ON CHART. ALL ANCHORS SHALL BE SHIMMED WITH HARD PLASTIC SHIMS. USE SHIMS WHERE GAP IS GREATER THAN 1/16".
- 2) ONE (1) ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- 3) REFER TO ANCHOR CHARTS FOR SHIM GAPS AND ANCHOR SPACING.



PERIMETER ANCHOR CHART:

1/4" DIA. TAPPER OR QUICK CON II OR #14 DRILL FLEX:

LONG SIDE (H) in.	SHORT SIDE (W) in.	DESIGN PRESSURE (+/- PSF)	NO SHIM	1/4" SHIM	3/8" SHIM
UP TO 99 1/4" MAX	34"	130	12"	12"	12"
		120	12"	12"	12"
		110	12"	12"	12"
		100	12"	12"	12"
		90	12"	12"	12"
UP TO 99 1/4" MAX	38"	130	12"	12"	11"
		120	12"	12"	12"
		110	12"	12"	12"
		100	12"	12"	12"
		90	12"	12"	12"
UP TO 99 1/4" MAX	44"	130	12"	12"	10"
		120	12"	12"	11"
		110	12"	12"	12"
		100	12"	12"	12"
		90	12"	12"	12"
UP TO 99 1/4" MAX	50"	130	12"	12"	12"
		120	12"	12"	12"
		110	12"	12"	12"
		100	12"	12"	12"
		90	12"	12"	12"
UP TO 99 1/4" MAX	56"	130	12"	12"	12"
		120	12"	12"	12"
		110	12"	12"	12"
		100	12"	12"	12"
		90	12"	12"	12"
UP TO 99 1/4" MAX	62 1/4"	130	12"	12"	12"
		120	12"	12"	12"
		110	12"	12"	12"
		100	12"	12"	12"
		90	12"	12"	12"

VERTECH



FENEXPERT

CANADA

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SEAL:

[Signature]
 SEP 28 2009

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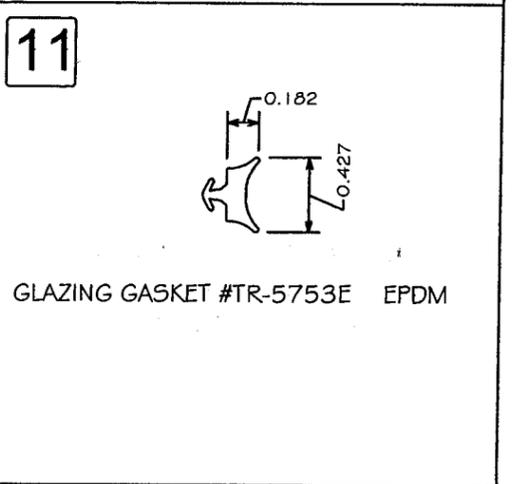
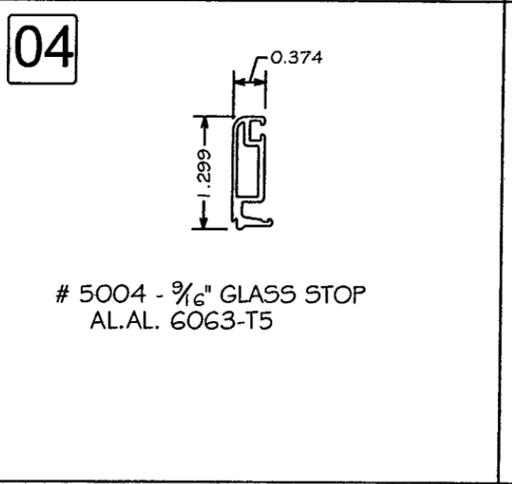
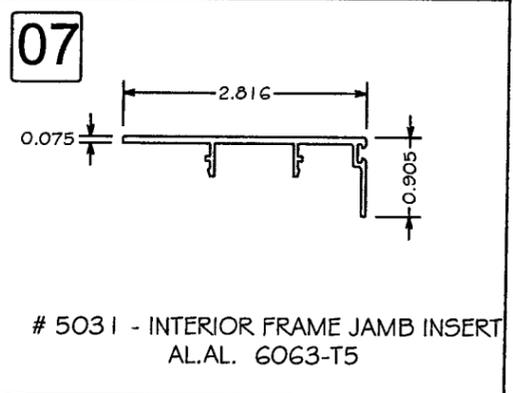
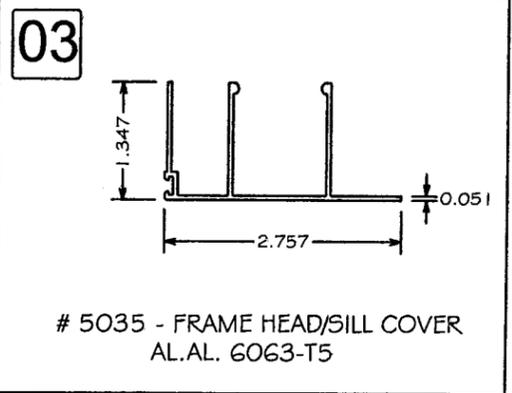
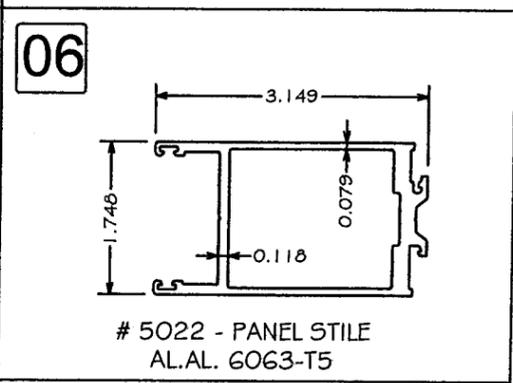
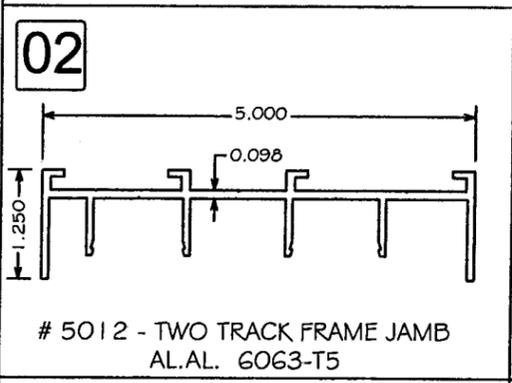
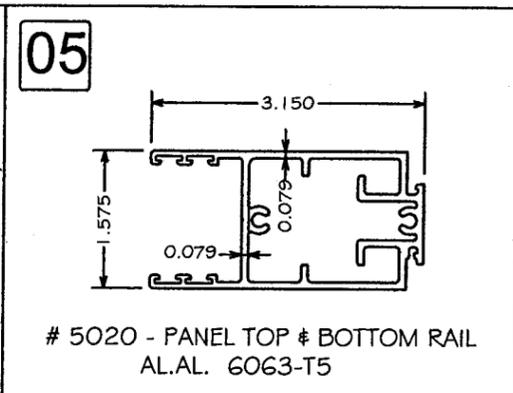
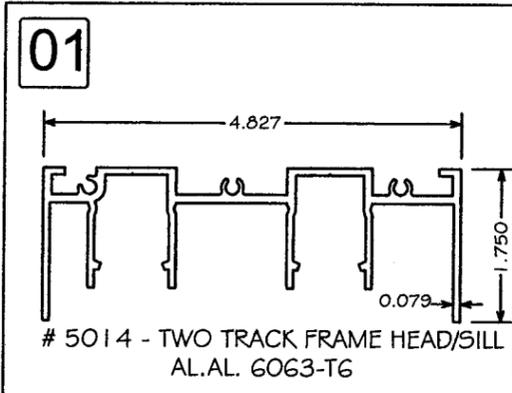
PROJECT:

AQUILON SERIES
 ALUMINUM FIXED GLASS DOOR
 LARGE MISSILE IMPACT

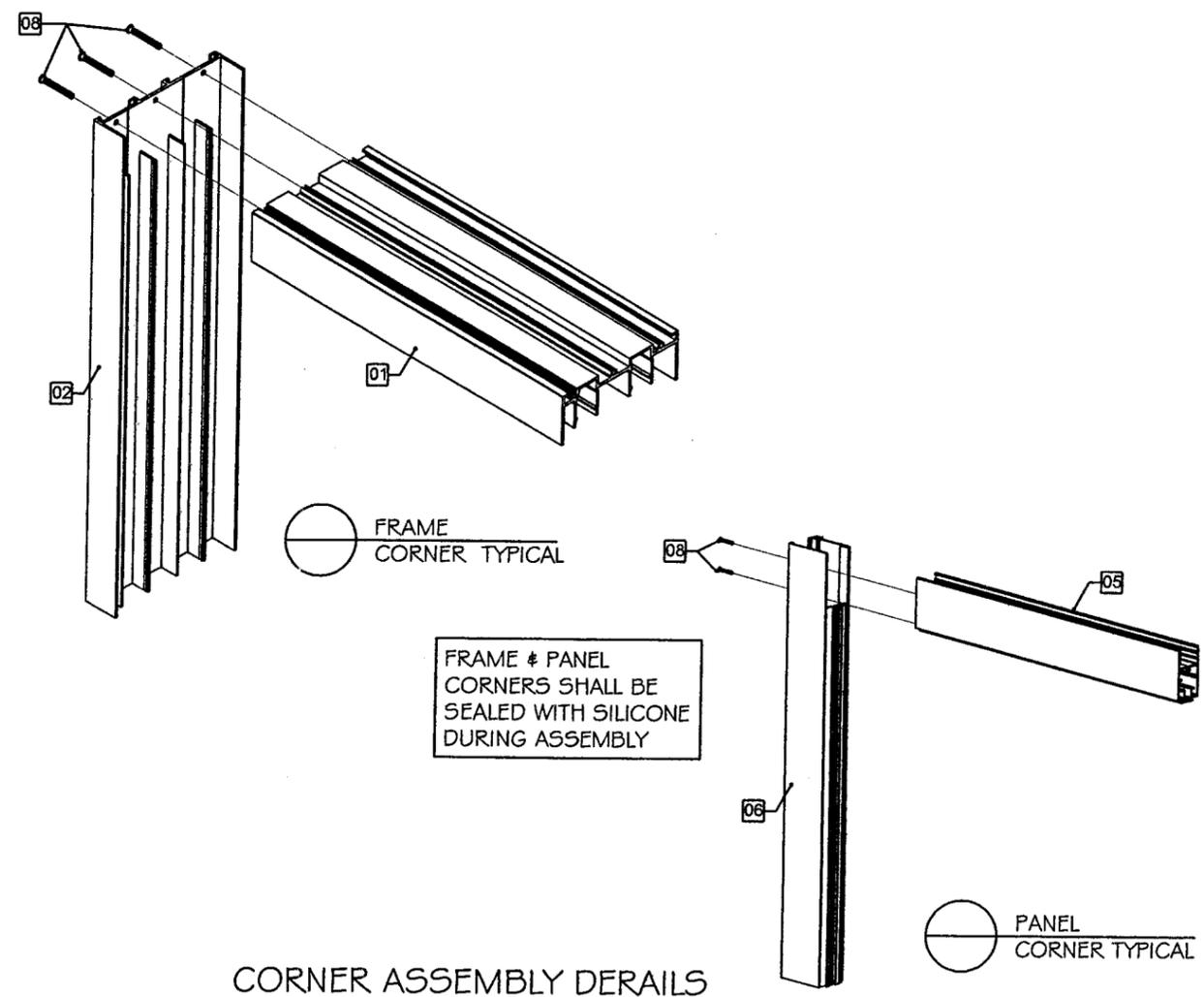
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SCALE:		SHEET NO.
1:2		4 OF 5



Item	Part Number	Description
1 TO 7		Aluminum extrusions
8	5000 S-00	Screw # 10-24 x 1" PH STS for Panel & Frame Assembly
9	5000 S-xxx	Screw # 14 x 1 1/2" SMS RHS STS for Panel Installation
11	5000-G-10	EPDM Glazing Gasket #TR-15753E
12	5000-G-20	Mohair Finseal
13	5000-G-20	Mohair Finseal
14	5000-G-xxx	Mohair Tri-fin Soft touch
15	5000-G-xxx	TPE Bulb 0.187" x 0.350"
16	5000-M-60	Glass setting block
17	5000-Z-90	Sealant Sikaflex 552



CORNER ASSEMBLY DETAILED

VERTECH
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