



**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/buildingcode](http://www.miamidade.gov/buildingcode)

**CECO Door Products  
9159 Telecom Drive  
Milan, TN 38358**

**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: Imperial Series "8070 / 4070" Outswing Commercial Steel Door**

**APPROVAL DOCUMENT:** Drawing No "09-1159", titled "Series 8070 Elevation Drawing Flush & Glazed Imperial Doors", dated 08-26-09, sheets 1 through 16 of 16 prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P. E., 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 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 **revises & renews** NOA # **05-0809.02** consists of this page 1 and evidences page E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



**NOA No 09-0505.09  
Expiration Date: August 05, 2014  
Approval Date: November 04, 2009  
Page 1**

8  
11/3/09

**CECO Door Products.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's parts and sections drawings (transferred from file # **05-0809.02**)
2. Drawing No "**09-1159**", titled "Series 8070 Elevation Drawing Flush & Glazed Imperial Doors", dated 08-26-09, sheets 1 through 16 of 16 prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P. E .

**B. TESTS (transferred from file # **05-0809.02**)**

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94 (except sp# 7 louver)  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistant Test, per FBC, TAS 202-94 (Not Performed)  
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 (b) and TAS 202-94

Along with marked-up drawings and installation diagram of outswing steel door, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0345-0203-04 (HTL-04017)**, (specimen # 1, 2, 3, & 5), dated 02/11/04 thru 02/21/04, signed and sealed by Vinu J. Abraham, P.E

**C. CALCULATIONS:**

1. Anchor verification calculations, complying w/ FBC-2007, dated 08-26-2009, prepared, signed and sealed by Walter A. Tillit Jr., P. E.
2. Glazing compliance per ASTM E-1300-02/04

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS (transferred from file# **05-0809.02**)**

1. Notice of Acceptance No. 08-0709.04 issued to Glasslam, Inc. for "Safety-Plus II", expiring on 08/07/13.
2. Test reports No. R5692/01NK36633, issued by Underwriters Laboratories Inc. for polyurethane foam cores "Surface burning characteristics" per ASTM E-84, dated September 21, 2001, issued to BASF. Corp.
3. Test report No.01.10085.01.627, dated April 29, 2004, for "Self ignition test" per ASTM 1929 D for the BASF polyurethane foam cores, issued by Southwest Research Institute, Texas.
4. Tensile Test report No. Job# 4DM-426, dated March 13, 2004, issued by Q C Metallurgical, Inc, per ASTM E-8, signed & sealed by Frank E. Grate, P.E.

**F. STATEMENTS**

1. Statement letter of conformance dated 08/26/09, signed by Walter A. Tillit Jr., P. E.
2. Statement of "No financial interest" dated June 09, 2004, signed by Walter A. Tillit Jr., P. E. (transferred from file# **05-0809.02**)
3. Statement letter of compliance issued by Hurricane Testing Laboratory LLC., as part of above referenced test report.

**G. OTHER**

1. This NOA **revises & renews** NOA # **05-0809.02**, expiring August 05, 2009.

Ishaq I. Chanda

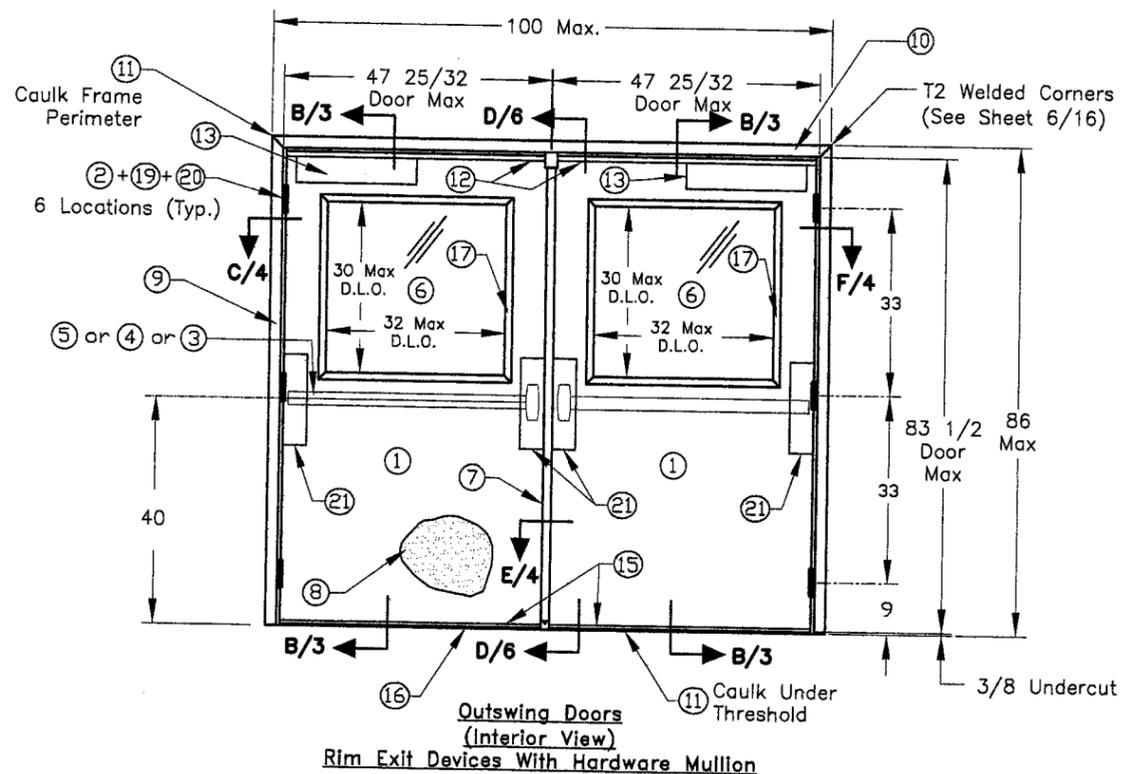
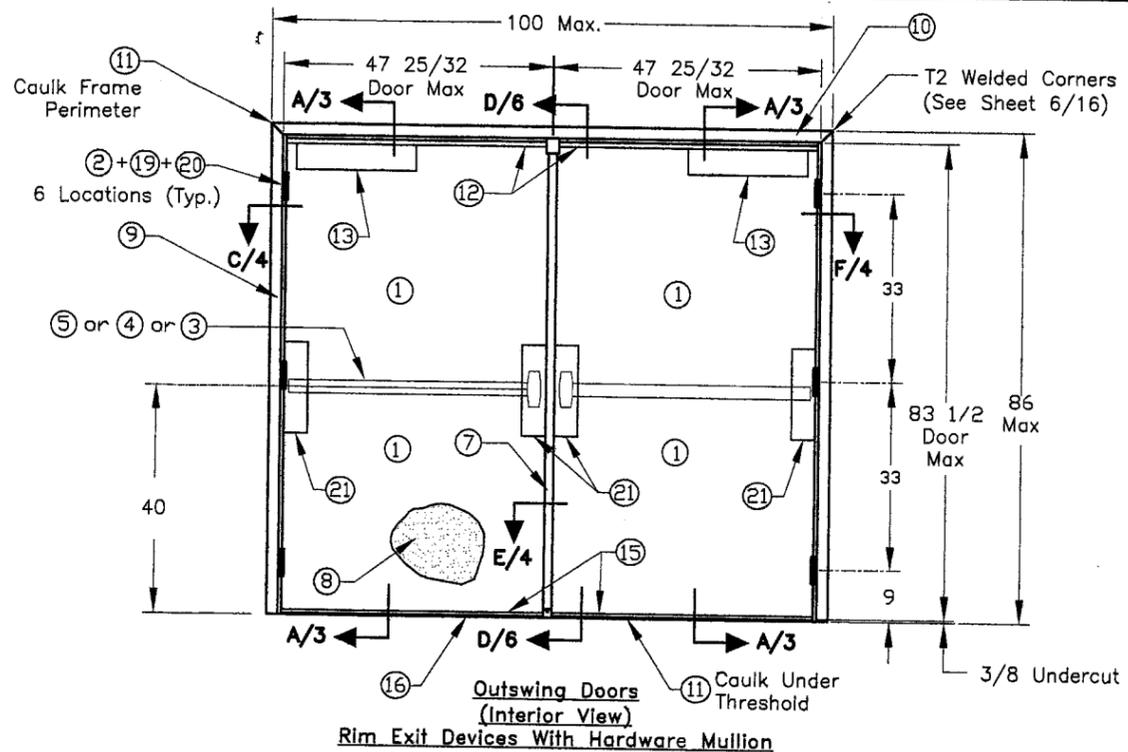
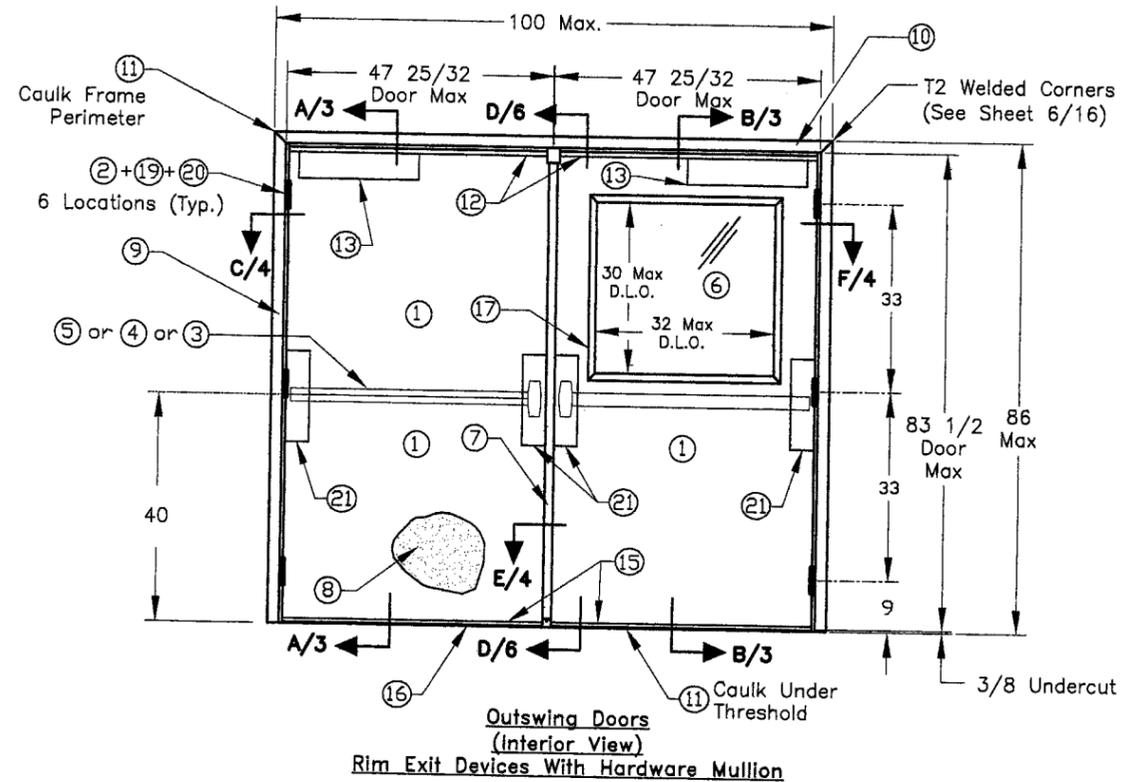
Ishaq I. chanda, P.E.

Product Control Examiner

NOA No 09-0505.09

Expiration Date: August 05, 2014

Approval Date: November 04, 2009



**General Notes for 8070 Series Flush & Glazed Imperial Doors:**

1. Double 8070 Series Imperial Outswing Commercial Steel Door w/series "SF" frame jamb and head, shown on this Product Approval Document (P.A.D.) has been verified for compliance in accordance with the 2007 edition of the Florida Building Code. Door may be installed at High Velocity Hurricane Zones (Miami-Dade / Broward Counties). Design wind loads shall be determined as per section 1620 of the above mentioned code. In order to verify that components on this P.A.D., as tested, were not overstressed, a 33% increase in allowable stress for wind loads was **NOT** used in their analysis. This Door's adequacy for impact and fatigue resistance has been verified in accordance with section 1626 of the above mentioned code as per TAS-201, TAS-202, TAS-203 protocols, as per Hurricane Test Laboratory, LLC report #0345-0203-04 and as per submitted structural calculations, performed as per section 1612 of the Florida Building Code.

2. Design Pressure Rating: +70 psf, -70 psf This Door IS NOT Approved for Water Infiltration

3. Minimum Frame Depth: 5 3/4"

4. See Sheets 7, 8, 9 & 14 for Components Nomenclature

5. See Sheet 5 for Anchor Details and Location

6. All Dimensions are in inches

7. This Door DOES NOT require a Hurricane Protection Device

8. Provide 1/4" maximum load bearing shim space (Typ.).

9. (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) Original P.A.D. shall bear the date and original seal and signature of the professional engineer of record that prepared it.

10. Door's manufacturer label shall be placed on the exposed surface of 9 or 10. One label shall be placed for every opening. Label shall read as follows:

**CECO DOOR PRODUCTS**  
9159 Telecom Drive  
Milan, Tennessee  
Miami-Dade County Product Control Approved.

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No **09-0505.09**  
Expiration Date **AUG. 5, 2014**  
By *Ishag I. Chand*  
Miami Dade Product Control  
Division

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MATERIAL SPECIFICATIONS:

Finish: Rust Inhibitive  
Primer, One Coat

8070 Series Elevation Drawing  
Flush & Glazed Imperial Doors

**CECO DOOR PRODUCTS**  
Milan, Tennessee 38358

REVISIONS: OLD 05-183 08/24/09

DRAWN BY: M.C.V. / I.A. DATE: 08/24/09

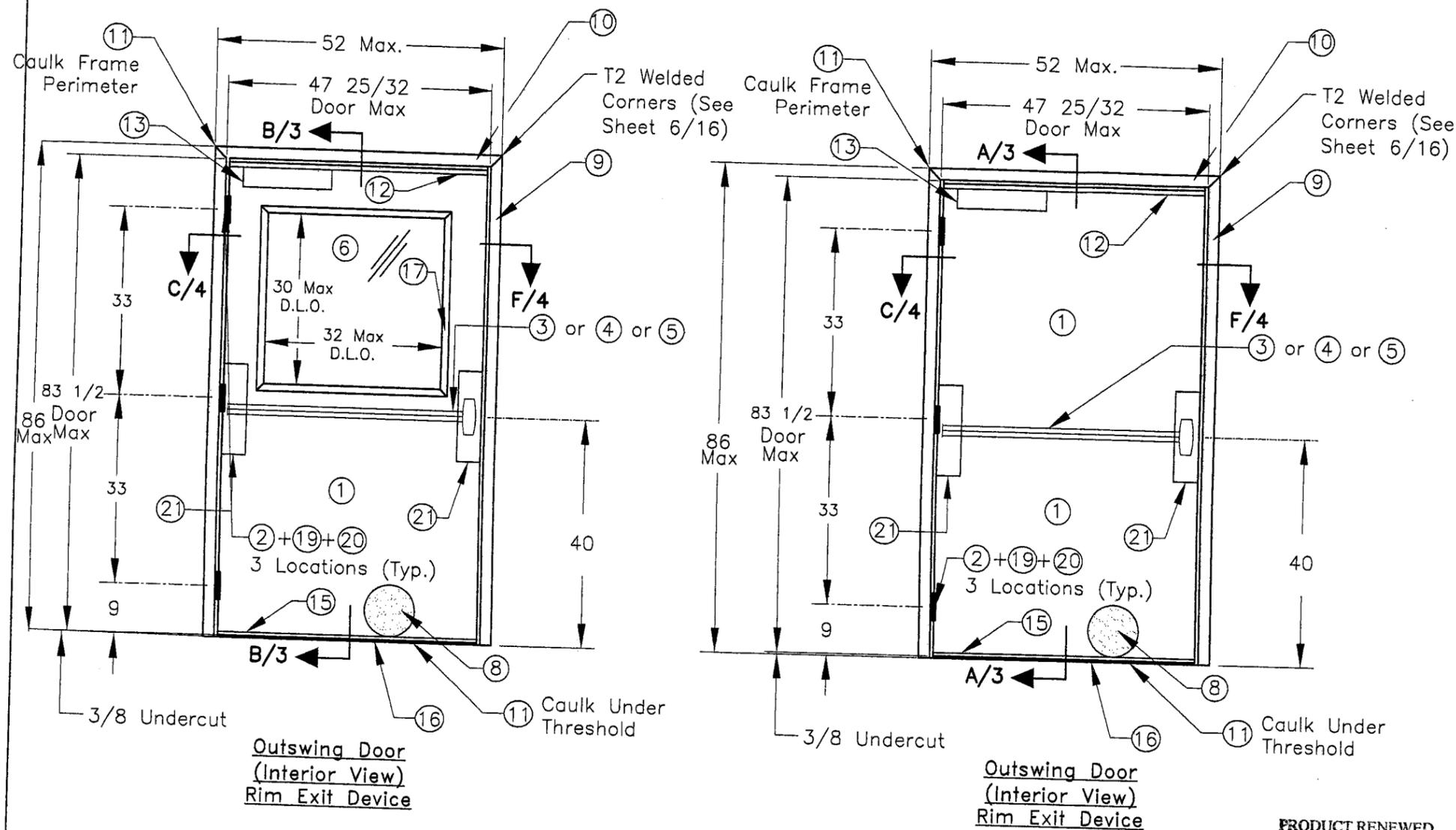
DRAWING NUMBER: 09-159  
Sheet 1 Of 16

MIAMI-DADE COUNTY

*Walter A. Tillit Jr.*  
8/26/09

WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE

**TILECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166  
Phone : (305)871-1530 . Fax : (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167



**General Notes for 4070 Series Flush & Glazed Imperial Doors:**

1. Single 4070 Series Imperial Outswing Commercial Steel Door w/series "SF" frame jamb and head, shown on this Product Approval Document (P.A.D.) has been verified for compliance in accordance with the 2007 edition of the Florida Building Code. Door may be installed at High Velocity Hurricane Zones (Miami Dade / Broward counties). Design wind loads shall be determined as per section 1620 of the above mentioned code. In order to verify that anchors on this P.A.D., as tested, were not overstressed, a 33% increase in allowable stress for wind loads was **NOT** used in their analysis. This Door's adequacy for impact and cyclic resistance has been verified in accordance with section 1626 of the above mentioned code as per TAS-201, TAS-202, TAS-203 protocols, as per Hurricane Test Laboratory, LLC report #0345-0203-04 and as per submitted structural calculations, performed as per section 1612 of the Florida Building Code.

2. Design Pressure Rating: +70 psf, -70 psf

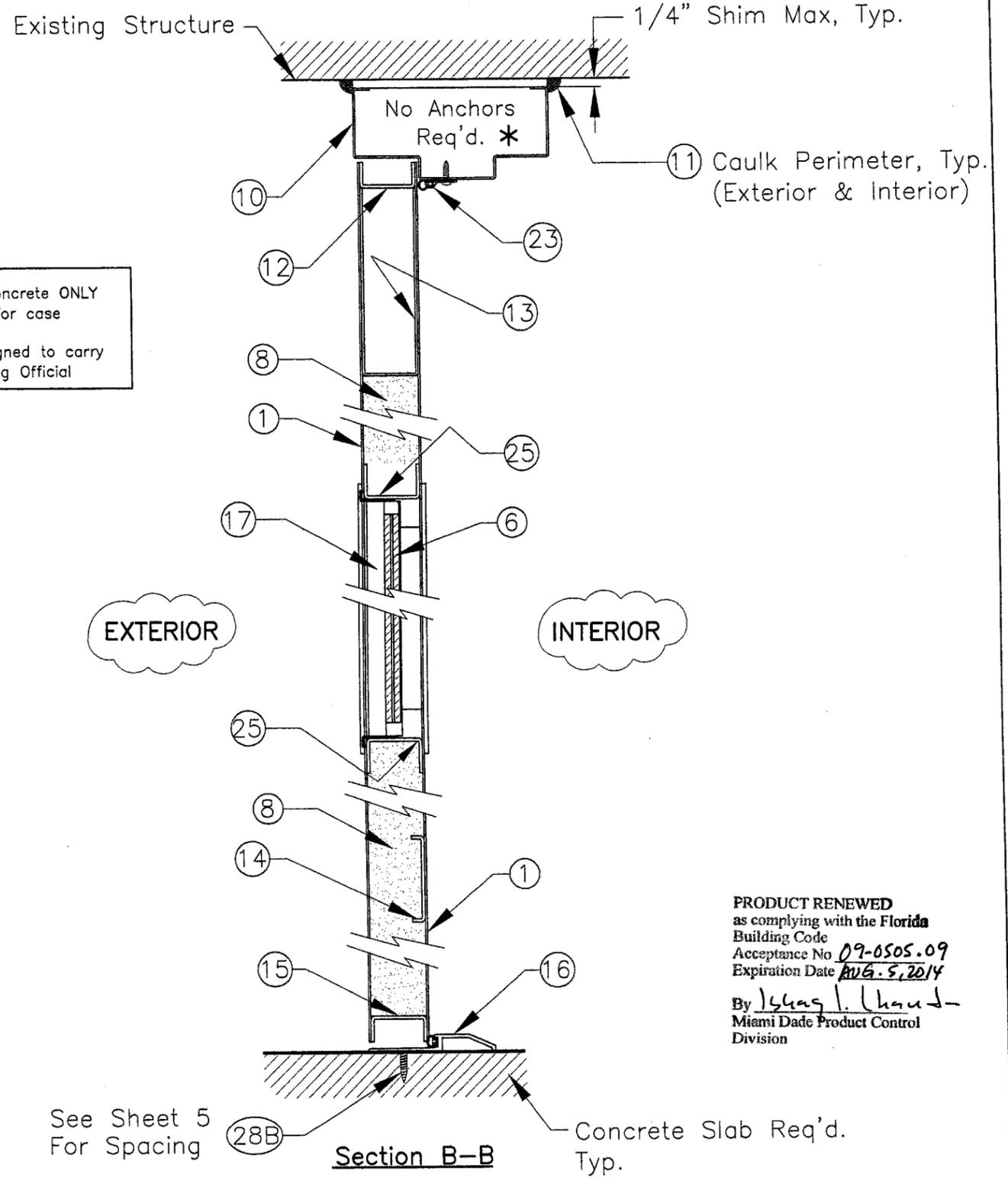
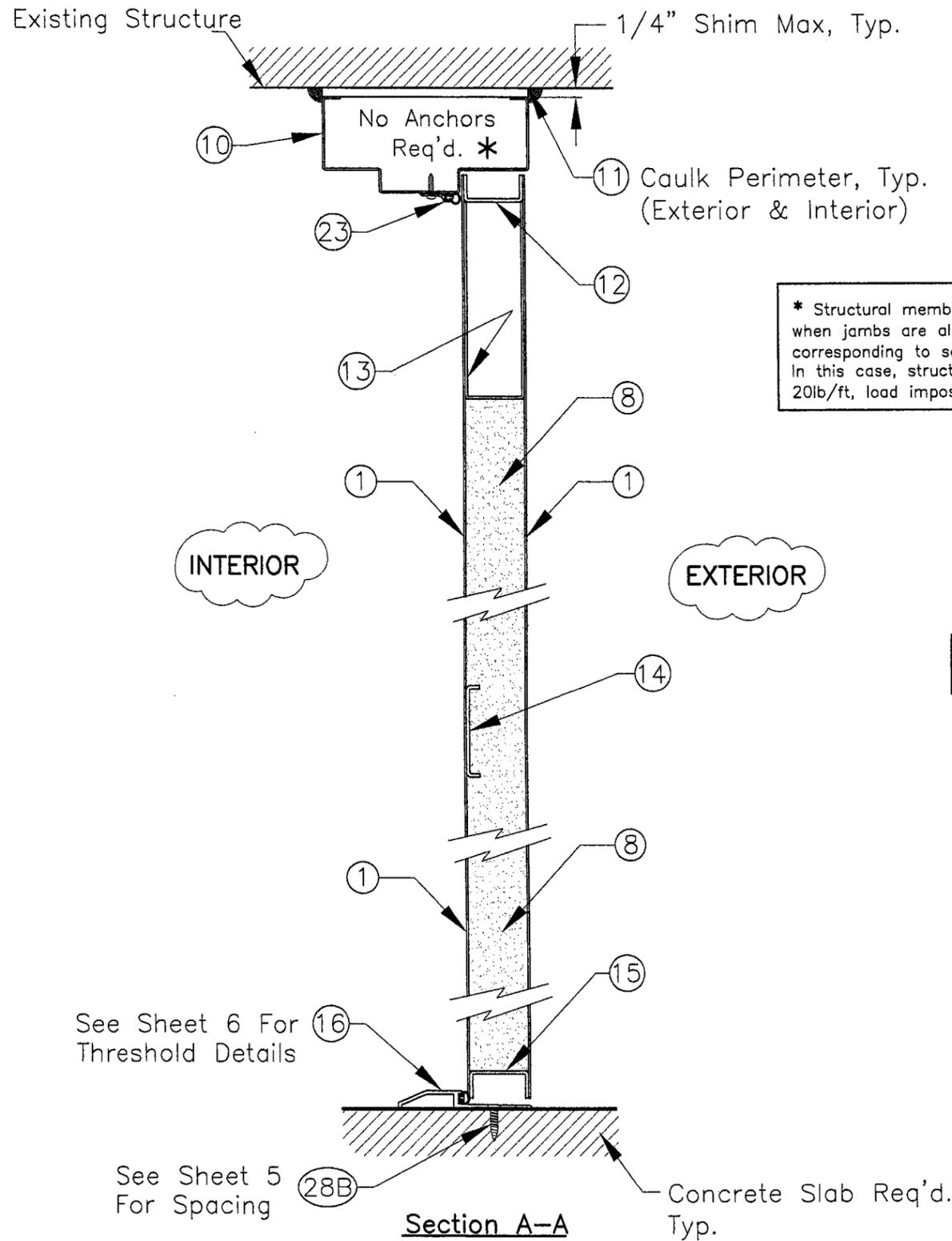
This Door **IS NOT** Approved for Water Infiltration

- 3. Minimum Frame Depth: 5 3/4"
- 4. See Sheets 7, 8, 9 & 14 for Component Nomenclature
- 5. See Sheet 5A for Anchor Details and Location
- 6. All Dimensions are in inches
- 7. This Door **DOES NOT** require a Hurricane Protection Device
- 8. Provide 1/4" max. load Bearing shim space (Typ.).
- 9. (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) Original P.A.D. shall bear the date and original seal and signature of the professional engineer of record that prepared it.

10. Door's manufacturer label shall be placed on the exposed surface of 9 or 10. One label shall be placed for every opening. Label shall read as follows:  
**CECO DOOR PRODUCTS**  
9159 Telecom Drive  
Milan, Tennessee  
Miami-Dade County Product Control Approved.

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No **09-0505.09**  
Expiration Date **AUG. 5, 2014**  
By *Ishag J. Chaudhry*  
Miami Dade Product Control  
Division

MIAMI-DADE COUNTY   8/26/09 WALTER A. TILLIT Jr., P. E. P.E. SEAL/SIGNATURE/DATE	 TILLIT TESTING & ENGINEERING COMPANY 8355 N.W. 38th. St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167	MATERIAL SPECIFICATIONS:  Finish: Rust Inhibitive Primer, One Coat	FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)	
			4070 Series Elevation Drawing Flush & Glazed Imperial Doors   Milan, Tennessee 38358	



\* Structural member 10 at Head Must be Filled w/ concrete ONLY when jambs are all filled w/ concrete w/o anchors. (For case corresponding to sections A-A & E-E on sheet 5) In this case, structural member at head must be designed to carry 20lb/ft, load imposed and must be reviewed by Building Official

See Sheets 7, 8 & 9 for Component Nomenclature

See Sheet 6 For Threshold Details

See Sheet 5 For Spacing

See Sheet 5 For Spacing

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 09-0505.09 Expiration Date AUG. 5, 2014 By Isaac I. Chaud Miami Dade Product Control Division

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MIAMI-DADE COUNTY

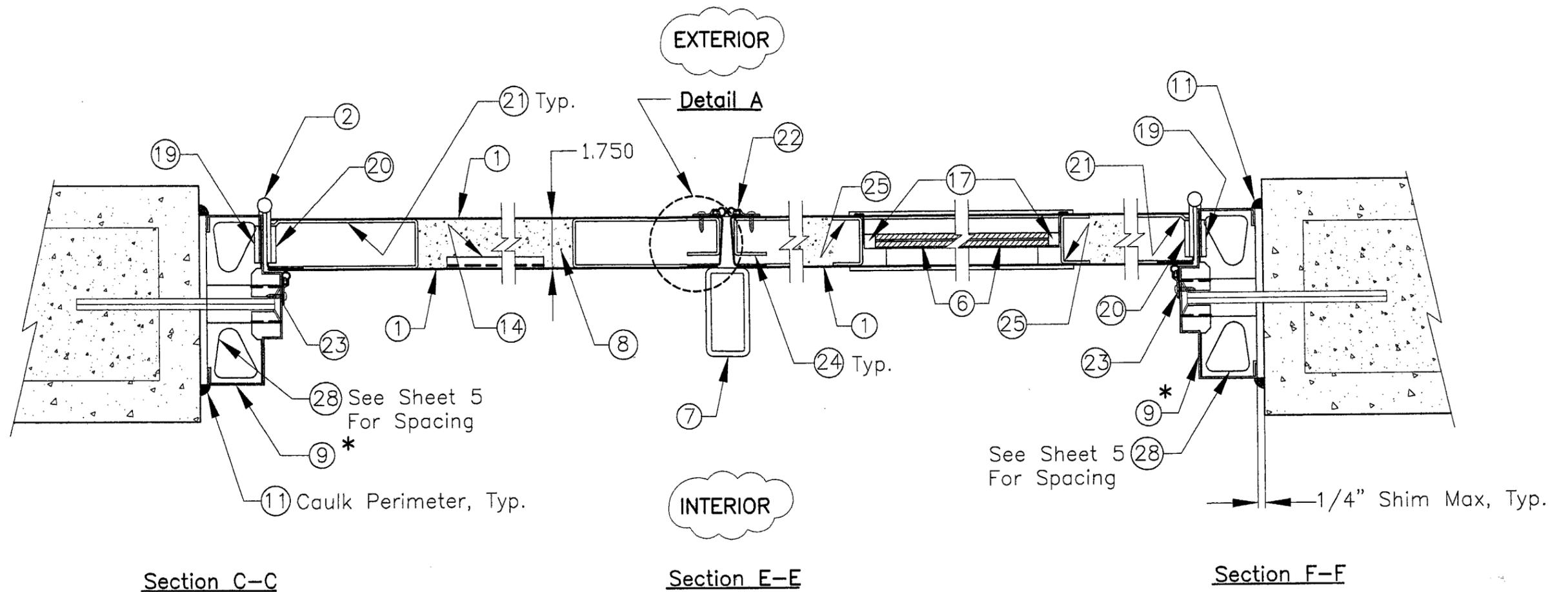
*Walter A. Tillit Jr.*  
8/26/09  
WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE

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

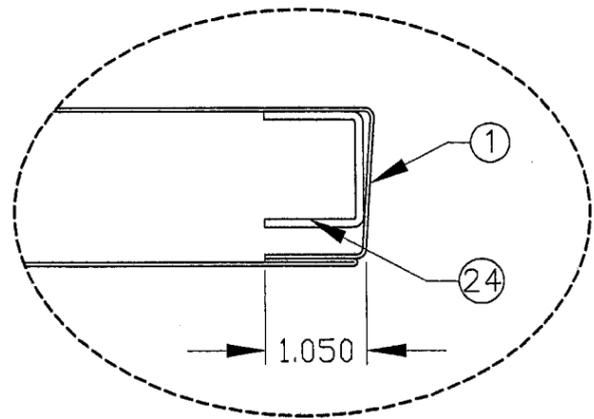
MATERIAL SPECIFICATIONS:

Vertical Cross Sections For 8070 & 4070 Series Imperial Doors  
**CECO DOOR PRODUCTS**  
Milan, Tennessee 38358

REVISIONS: OLD 05-183 08/24/09  
DRAWN BY: M.C.V. / I.A. DATE: 08/24/09  
DRAWING NUMBER:  
09-159  
Sheet 3 Of 16



\* Jamb ⑨ may also be attached by pouring concrete into it as per section A-A, on sheet 5.

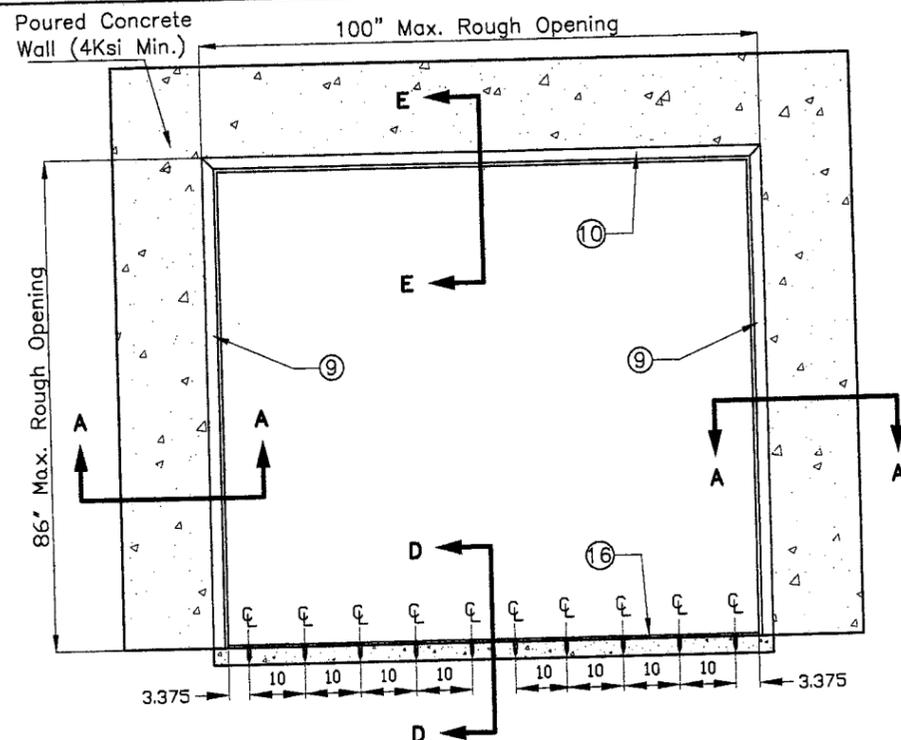


Detail A

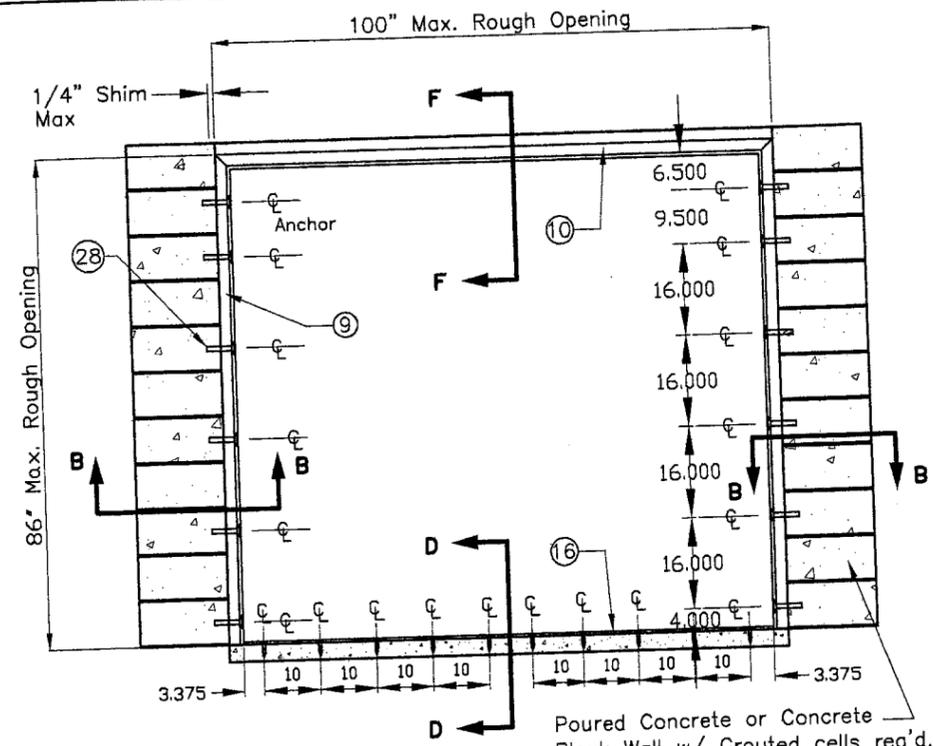
PRODUCT RENEWED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 09-0505.09  
 Expiration Date AUG. 5, 2014  
 By Iskay J. Chaudh  
 Miami Dade Product Control  
 Division

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

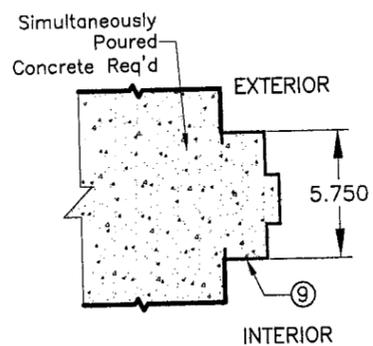
MIAMI-DADE COUNTY	 WALTER A. TILLIT Jr., P. E. P.E. SEAL/SIGNATURE/DATE	 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)871-1530 • Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167	MATERIAL SPECIFICATIONS:	Horizontal Cross Sections For 8070 & 4070 Series Imperial Doors		REVISIONS: OLD 05-183	08/24/09
				 Milan, Tennessee 38358		DRAWN BY: M.C.V. / I.A.	DATE: 08/24/09



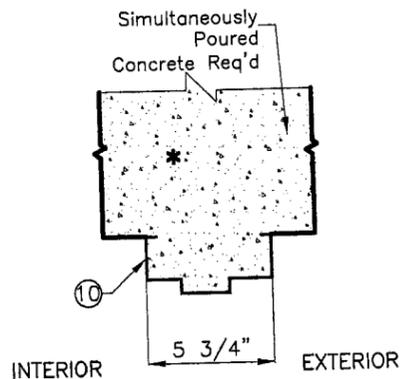
**FRAME CONNECTION AT POURED CONCRETE WALL  
8-0 x 7-0 DOOR SIZE**



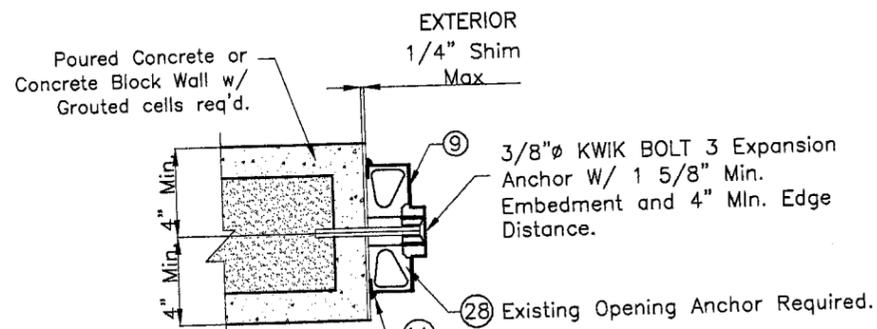
**FRAME ANCHORS AT POURED CONCRETE OR  
CONCRETE BLOCK WALL  
8-0 x 7-0 DOOR SIZE**



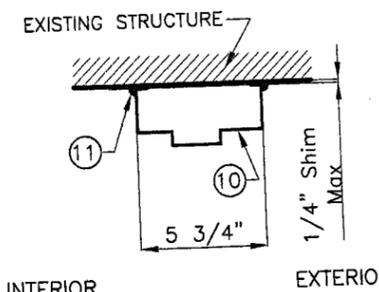
**SECTION A-A  
9 FRAME JAMB AT POURED CONCRETE WALL**



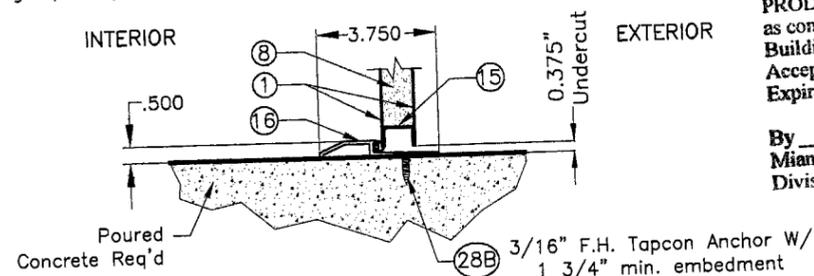
**SECTION E-E  
10 FRAME JAMB AT POURED CONCRETE BEAM**



**SECTION B-B  
28 ANCHOR BOLT AT MASONRY WALL**



**SECTION F-F  
10 FRAME JAMB AT EXISTING STRUCTURE**



**SECTION D-D  
28B ANCHORS AT 16 THRESHOLD  
(NATIONAL GUARD 8135N)**

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No **09-0505.09**  
Expiration Date **AVG. 5, 2014**  
By **Ishag I. Chaudhry**  
Miami Dade Product Control  
Division

\* Structural member 10 at Head must be filled simultaneously w/ concrete ONLY when jambs are all filled w/ concrete w/o anchors. (For case corresponding to sections A-A & E-E) In this case, structural member at head must be designed to carry 20lb/ft. load imposed and must be reviewed by Building Official

See Sheets 7, 8 & 9 for Components Nomenclature

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)  
REVISIONS: OLD 05-183 08/24/09

Frame Anchor Installation Details For  
8070 Series Imperial Door

DRAWN BY: M.C.V. / I.A. DATE: 08/24/09

DRAWING NUMBER:  
09-159  
Sheet 5 Of 16

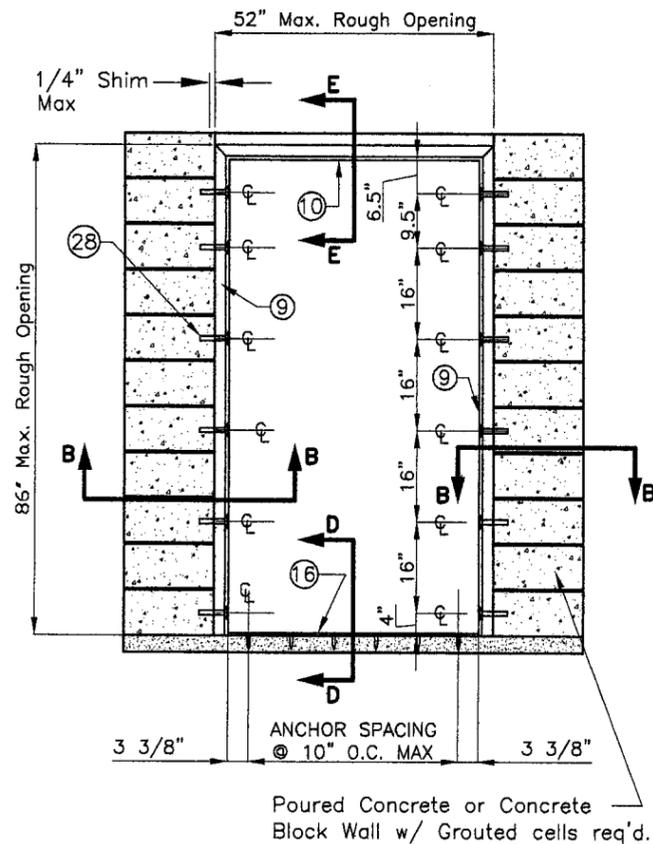
**CECO DOOR PRODUCTS**  
Milan, Tennessee 38358

*Walter A. Tillit Jr.*  
8/26/09

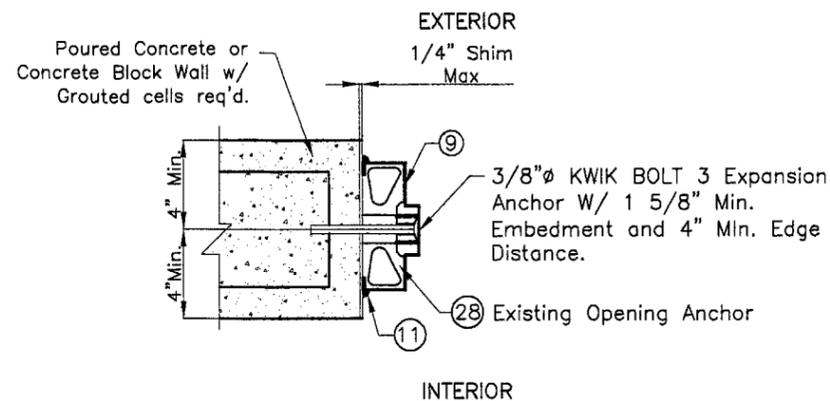
WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE

**TILECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166  
Phone : (305)871-1530 Fax : (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

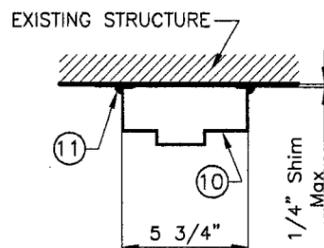
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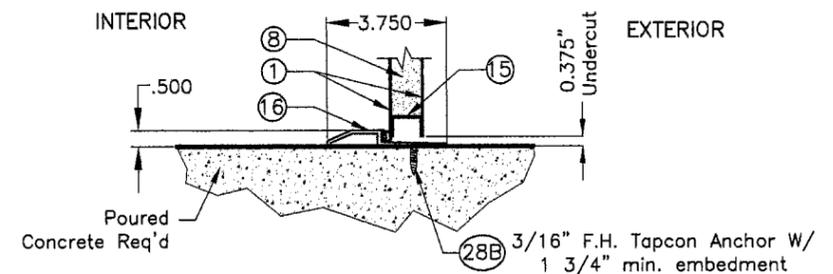
**FRAME ANCHORS AT POURED CONCRETE OR CONCRETE BLOCK WALL  
4'-0" x 7'-0" DOOR SIZE**



**SECTION B-B  
ANCHOR BOLT AT MASONRY WALL**



**SECTION E-E  
FRAME JAMB AT EXISTING STRUCTURE**



**SECTION D-D  
ANCHORS AT THRESHOLD**

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 09-0505.09  
Expiration Date Aug. 5, 2014  
By Isaac L. Chang  
Miami Dade Product Control  
Division

See Sheets 7, 8 & 9 for  
Components Nomenclature

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MATERIAL SPECIFICATIONS:

Frame Anchor Installation Details For  
4070 Series Imperial Door

REVISIONS: OLD 05-183 08/24/09

DRAWN BY: M.C.V. / I.A. DATE: 08/24/09

DRAWING NUMBER:  
09-159  
Sheet 5A Of 16

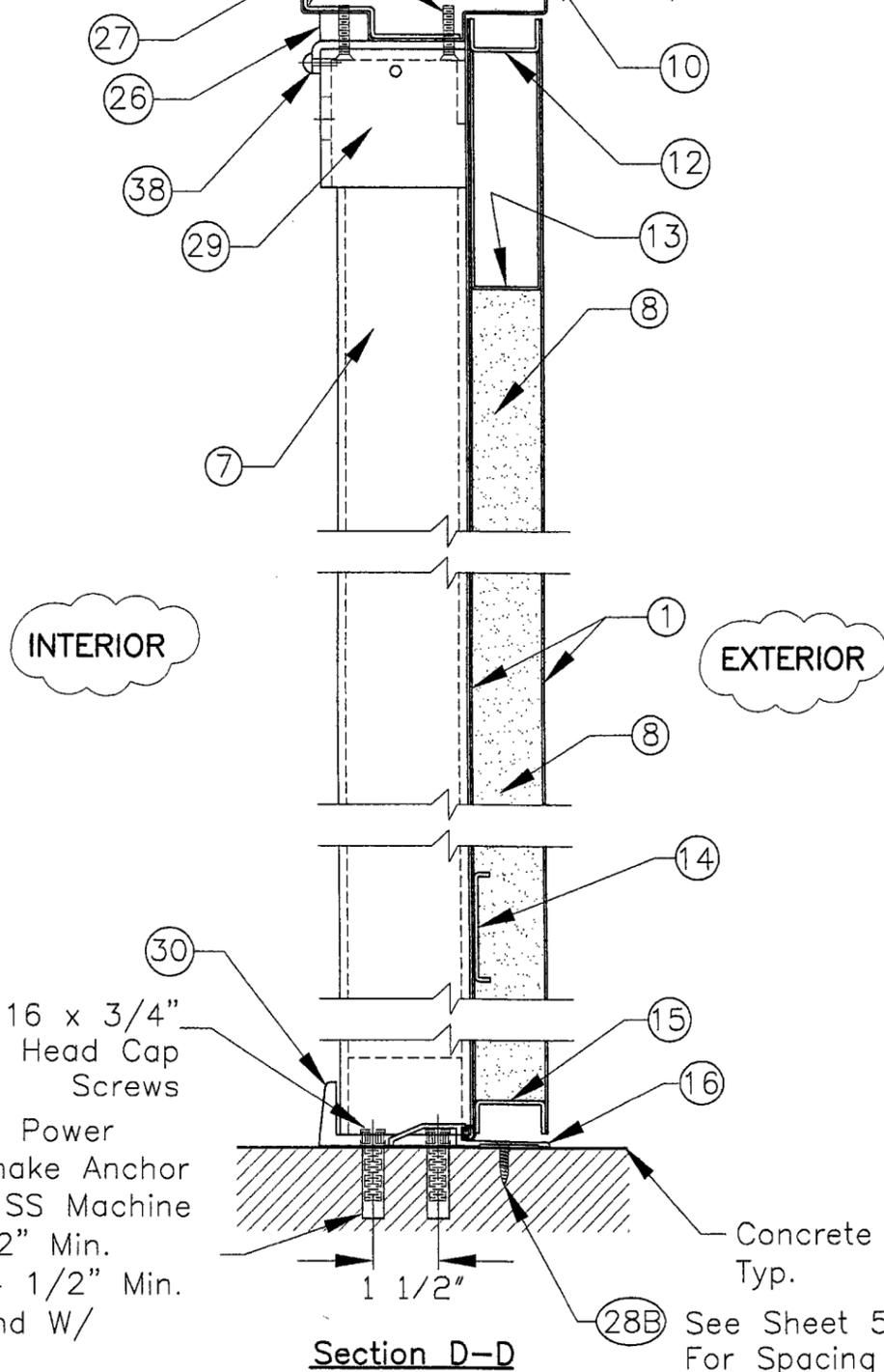
MIAMI-DADE COUNTY

*Walter A. Tillit Jr.*  
8/26/09  
WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE

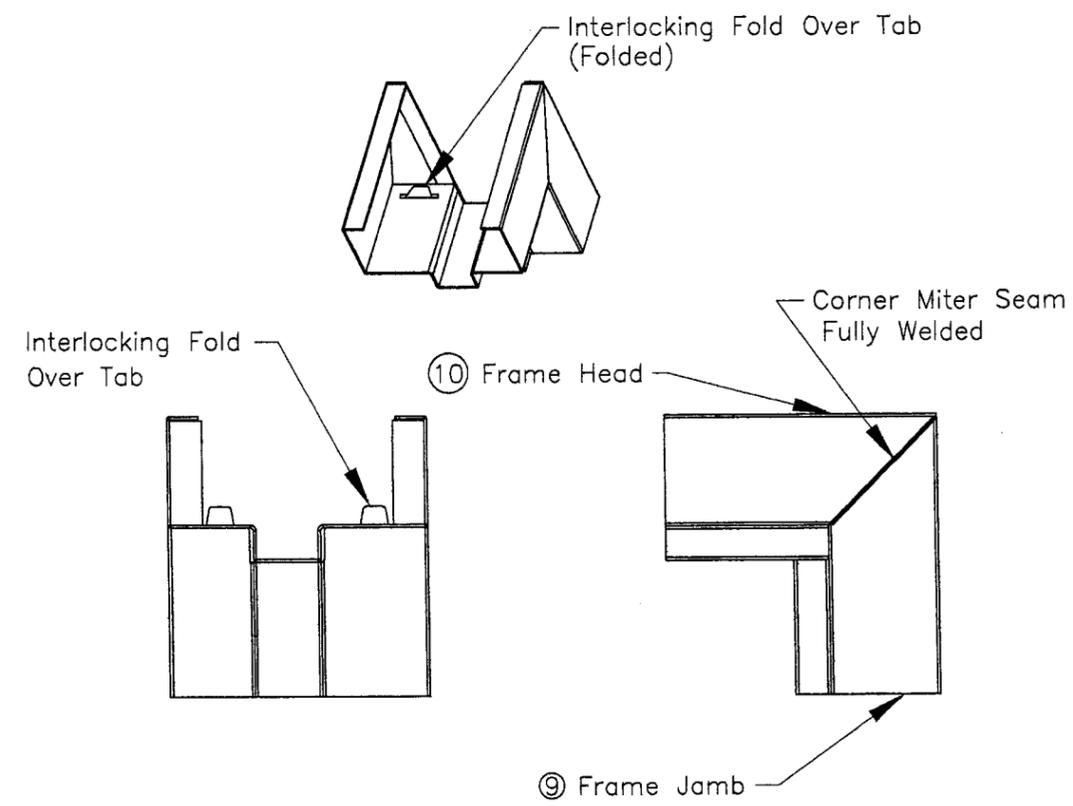
**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166  
Phone: (305)871-1530 Fax: (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

**CECO DOOR PRODUCTS**  
Milan, Tennessee 38358

Existing Structure  
 (4) 1/4"-20x1 1/4" M.S. Supplied By Manufacturer  
 NO ANCHORS REQ'D. \*  
 1/4" Shim Max, Typ.



\* Structural member (10) at Head Must be Filled w/ concrete ONLY when jambs are all filled w/ concrete w/o anchors. (For case corresponding to sections A-A & E-E on sheet 5) In this case, structural member at head must be designed to carry 20lb/ft, load imposed and must be reviewed by Building Official



Frame Corner Detail

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 09-0505.09 Expiration Date AUG. 5, 2014  
 By *Walter A. Tillit Jr.* Miami Dade Product Control Division

(2) 3/8"-16 x 3/4" Socket Head Cap Screws  
 (2) 3/8"x1 1/4" Power Fasteners Inc. Snake Anchor Jointly 3/8"-16 SS Machine Screw and 1 1/2" Min. Embedment. & 4 1/2" Min. Edge Distance and W/ f'c=2000 psi.

Section D-D (28B) See Sheet 5 For Spacing

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MIAMI-DADE COUNTY

*Walter A. Tillit Jr.*  
 8/26/09  
 WALTER A. TILLIT Jr., P. E.  
 P.E. SEAL/SIGNATURE/DATE

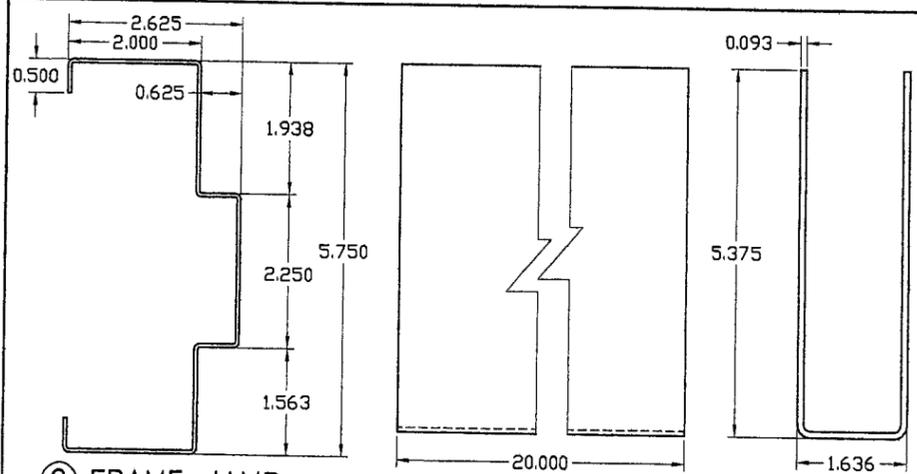
**TILECO INC.**  
 TILLIT TESTING & ENGINEERING COMPANY  
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166  
 Phone: (305)871-1530 Fax: (305)871-1531  
 EB-0006719  
 WALTER A. TILLIT Jr., P.E.  
 FLORIDA Lic. # 44167

MATERIAL SPECIFICATIONS:

Cross Section View Of Mullion Attachment And Frame Corner Condition For 8070 Imperial Door

**CECO DOOR PRODUCTS**  
 Milan, Tennessee 38358

REVISIONS: OLD 05-183 08/24/09	
DRAWN BY: M.C.V. / I.A.	DATE: 08/24/09
DRAWING NUMBER: 09-159	
Sheet 6 Of 16	

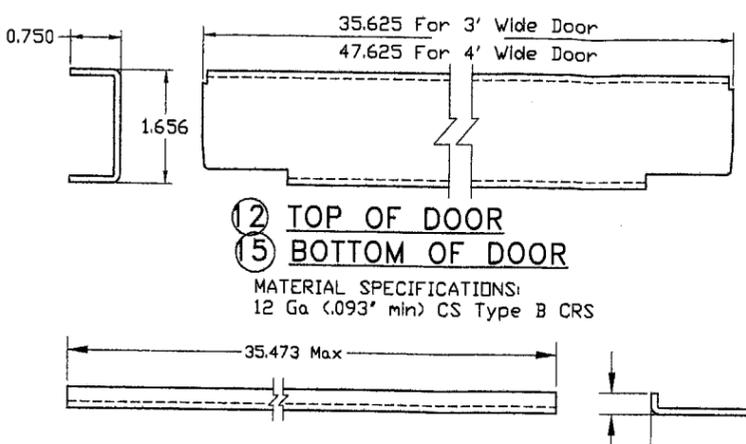


9 FRAME JAMB  
10 FRAME HEAD

MATERIAL SPECIFICATIONS:  
16 GA (.053)

13 CLOSER REINFORCEMENT

MATERIAL SPECIFICATIONS:  
14 GA (.067)

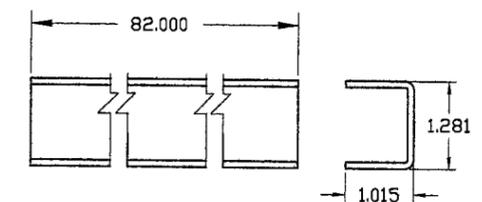


12 TOP OF DOOR  
15 BOTTOM OF DOOR

MATERIAL SPECIFICATIONS:  
12 Ga (.093' min) CS Type B CRS

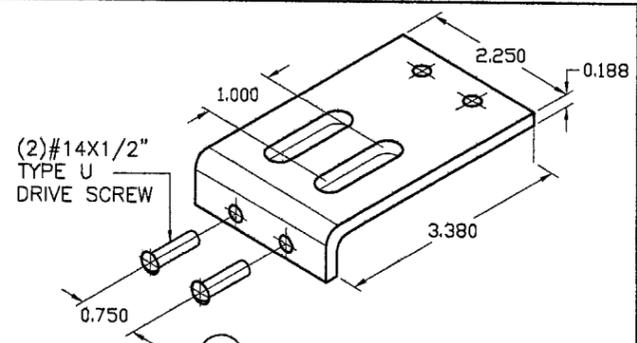
14 HORIZONTAL STIFFENER

MATERIAL SPECS:  
12 Ga. CRS



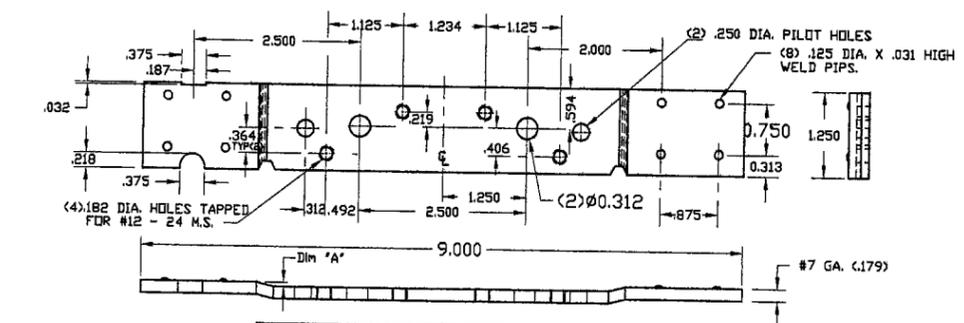
24 DOOR EDGE REINFORCEMENT

MATERIAL SPECIFICATIONS:  
12 Ga. CRS



38 BRACKET MOUNTING  
@ TOP OF MULLION FITTING

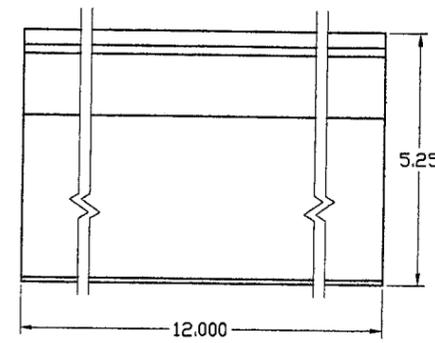
STEEL ASTM C1010  
Yale Security Inc.  
Dwg # 60-7000-1418



19 AT FRAME JAMB 20 AT DOOR STILE  
4 1/2" DOOR/FRAME HEAVY HINGE REINFORCEMENT

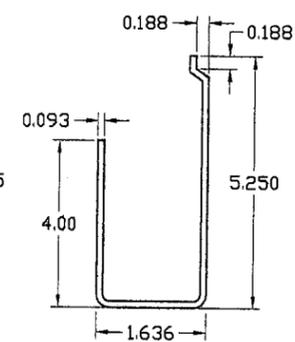
MATERIAL SPECIFICATIONS:  
7 GA. (.179, (+.003, -.005))

PART NO.	DIM "A"	ID STAMP
6100645	.094	H
6100646	.060	646
6100662	.115	NONE



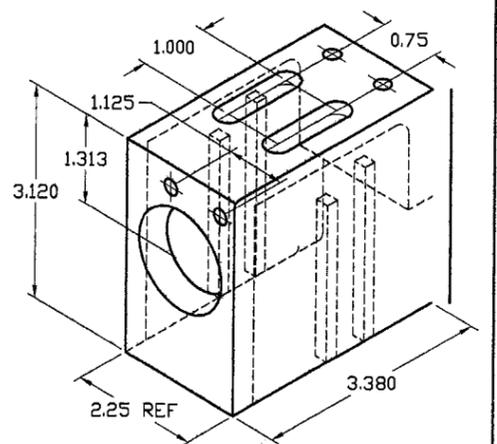
21 DOOR LOCK REINFORCEMENT

MATERIAL SPECIFICATIONS:  
12 GA (.095)



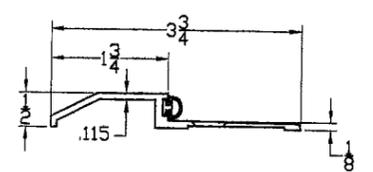
7 YALE HARDWARE MULLION  
M100 (F) KRM

ASTM A-500, GRADE B  
Yale Security Inc.  
Part # 60-1500-1265



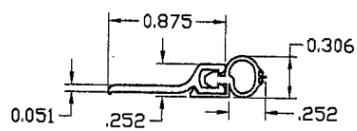
29 MULLION FITTING

STEEL ASTM C1010  
Yale Security Inc.  
Part # 60-7000-1412



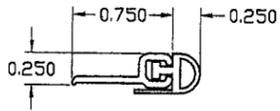
16 THRESHOLD:  
NATIONAL GUARD 8135N

MATERIAL SPECIFICATIONS:  
ALUMINUM 6063 T5



22 PEMKO WEATHERSTRIP  
PROFILE No 303 AS

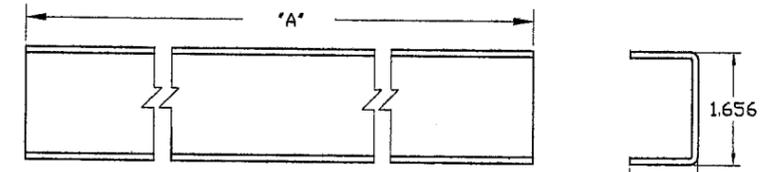
MATERIAL SPECIFICATIONS:  
MILL FINISH ALUM. RETAINER  
(6063-T5 ALLOY) W/SILICONE SEAL



23 HAGER 891S  
WEATHERSTRIP PROFILE

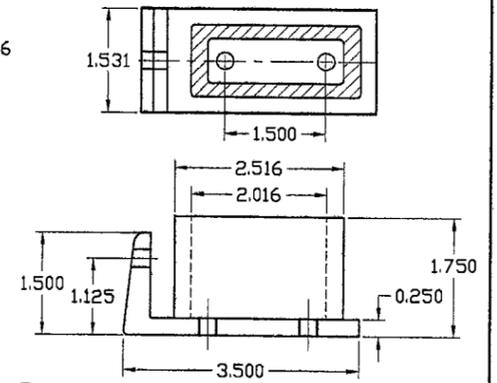
ALUMINUM 6063 T5

SEE SHEETS 9 & 16 (BILL OF MATERIALS) FOR COMPONENTS NOT SHOWN IN THIS SHEET



TYPE OF CHANNEL	MAX DIM "A"
VERTICAL	34
HORIZONTAL	33.750

MATERIAL SPECIFICATIONS:  
12 Ga. CRS



30 MULLION FOOT BRACKET

STEEL AISI 6150 OR 4140  
Yale Security Inc.  
Part # 60-2000-1164

# COMPONENTS

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No 09-0505-09  
Expiration Date AUG. 5, 2014

By *lchagl.chauk*  
Miami Dade Product Control  
Division

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MIAMI-DADE COUNTY

WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE

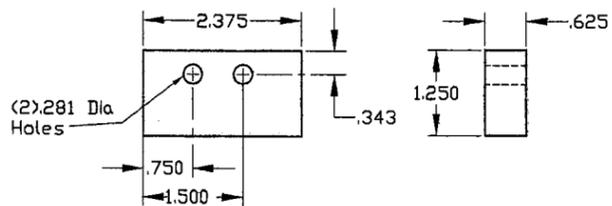
**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 30th. St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166  
Phone : (305)871-1530 • Fax : (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

MATERIAL SPECIFICATIONS:

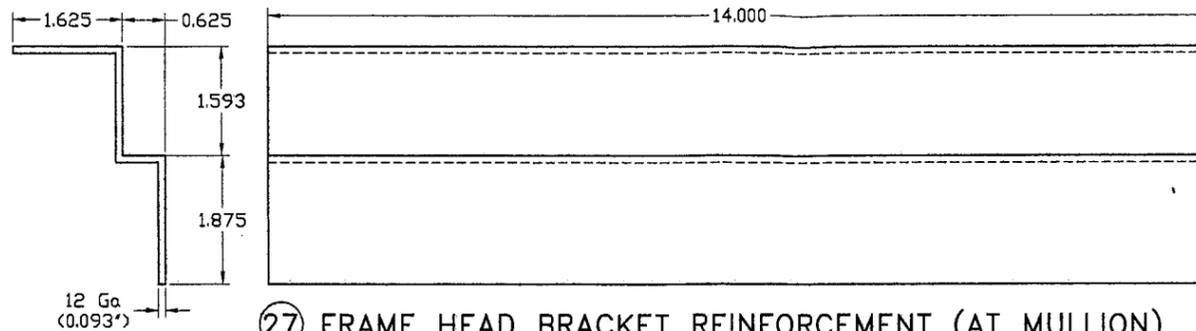
8070, 4070 & 3070 Series  
Imperial Doors

**CECO DOOR PRODUCTS**  
Milan, Tennessee 38358

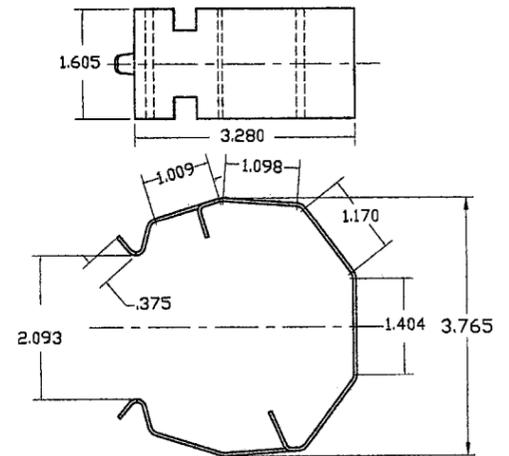
REVISIONS: OLD 05-183 08/24/09	
DRAWN BY: M.C.V. / I.A.	DATE: 08/24/09
DRAWING NUMBER: 09-159 Sheet 7 Of 16	



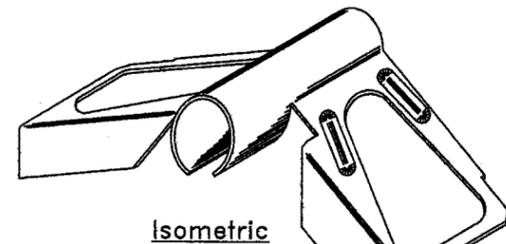
**26 MULLION SPACER BLOCK**  
 MATERIAL SPECIFICATIONS:  
 CRS



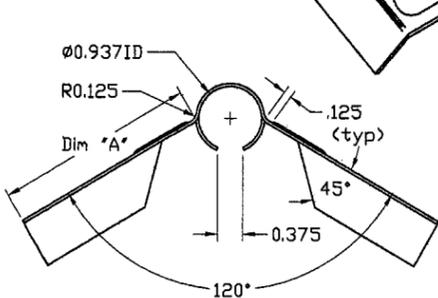
**27 FRAME HEAD BRACKET REINFORCEMENT (AT MULLION)**



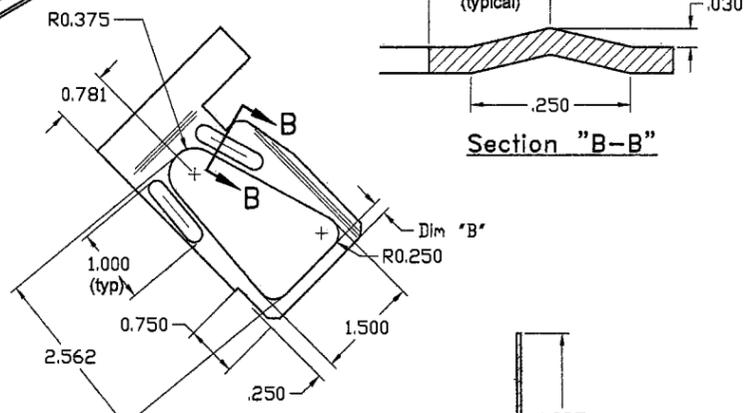
**32 CYLINDRICAL LOCK GUARD (LG-24)**  
 MATERIAL SPECIFICATIONS:  
 18 GA. CR (.042)



Isometric

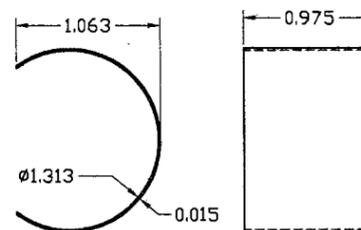
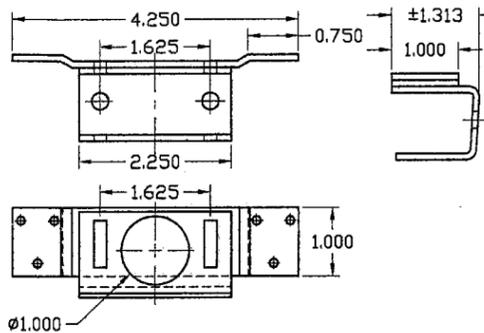


**28 EXISTING OPENING ANCHORS**  
 Material Specifications:  
 18 ga. galv.

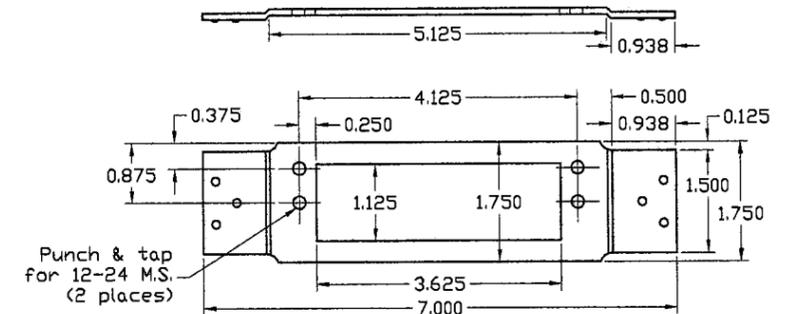


Section "B-B"

**33 CYLINDRICAL LOCK REINFORCEMENT**  
 MATERIAL SPECIFICATIONS:  
 12 GA (.093) CS TYPE B



**34 DOOR LATCH REINFORCEMENT "C" RING**  
 MATERIAL SPECIFICATIONS:  
 .015 x .975 C1010 GALV. CRS



**35 FRAME STRIKE REINFORCEMENT (LSRA)**  
 MATERIAL SPECIFICATIONS:  
 12 GA. .093 MIN

PRODUCT RENEWED  
 as complying with the Florida  
 Building Code  
 Acceptance No 09-0505-09  
 Expiration Date AUG. 3, 2014  
 By *Walter A. Tillit Jr.*  
 Miami Dade Product Control  
 Division

SEE SHEETS 9 & 16 (BILL OF MATERIALS) FOR COMPONENTS NOT SHOWN IN THIS SHEET

**COMPONENTS**

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

MIAMI-DADE COUNTY

*Walter A. Tillit Jr.*  
 8/26/09  
 WALTER A. TILLIT Jr., P. E.  
 P.E. SEAL/SIGNATURE/DATE

**TILTECO INC.**  
 TILLIT TESTING & ENGINEERING COMPANY  
 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166  
 Phone: (305)871-1530 Fax: (305)871-1531  
 EB-0006719  
 WALTER A. TILLIT Jr., P.E.  
 FLORIDA Lic. # 44167

MATERIAL SPECIFICATIONS:

8070, 4070 & 3070 Series  
 Imperial Doors  
**CECO DOOR PRODUCTS**  
 Milan, Tennessee 38358

REVISIONS: OLD 05-183 08/24/09  
 DRAWN BY: M.C.V. / I.A. DATE: 08/24/09  
 DRAWING NUMBER:  
 09-159  
 Sheet 8 Of 16

**BILL OF MATERIALS**

ITEM	QTY	DESCRIPTION	MATERIAL	SIZE																								
①	2 Per	Face Sheet Skin Conforming to ASTM A653 Galvannealed CQ at Flush & Glazed Doors w/ A-60 Coating.	Commercial Quality Galvannealed Steel (Minimum Yield Strength of 38,000 psi)	16 Gauge (0.053" Min. Thick)																								
②	6	Hager BB1199, Hinge Ea. Attached with Eight #12-24 x 1/2" F.H. M.S.	Steel	4-1/2" x 4-1/2" x 0.180" Thick																								
③	2	Detex H10 Series Exit Device	S.S. 304 or 316 Powdered Metal for Latch Bolt (Fy = 47 ksi), 13 Ga. CRS W/ Hardness of Rb 60-90 for Housing (Fy = 54 ksi), S.S. 302 Investment Cast for Strike (Fy = 30 ksi) and S.S. 17-4 PH Pin Latch Bolt (Fy = 145 ksi). All these components are valid for Detex H10, H40 & HV40	Surface Strike Attached to Door with (2) 1/4"-20 M.S.																								
④	2	Detex H40 Series Exit Device		Surface Strike Attached to Door with (2) 1/4"-20 M.S.																								
⑤	2	Detex HV40 Series Exit Device		Surface Strike Attached to Door with (2) 1/4"-20 M.S.																								
⑥	-	Glasslam, Safety Plus II, Hurricane Glass w/ 1 1/2" Edge (P.E.T.) 3/16" Tempered / 0.100 Interlayer with P.E.T. / 3/16" Tempered	Miami-Dade County Impact Resistant Laminated Glass interlayer as per NOA # 08-0709.04 w/ Edge PET Film.	33 1/8" x 31 1/8"																								
⑦	1	Yale Hardware Mullion, M100 (F) KRM	ASTM A-500 GRADE B., W/ Fy(min) =46ksi & Fu(min)=58ksi	(1.5" x 3.0" x 0.187") Red Oxide Painted Or Equal.																								
⑧	Req'd	Urethane Core (Elastopor® P16293R Resin Component/Elastopor® P1001U Isocyanate)	Polymeric MDI Foam System is a two part liquid, self adhesive to skin when cured	2 lb/ft <sup>3</sup> Density, w/ the following Fire Burning characteristics <table border="1"> <thead> <tr> <th>Test</th> <th>Description</th> <th>Value</th> <th>Report #</th> </tr> </thead> <tbody> <tr> <td>ASTM E 84</td> <td>Flame spread</td> <td>20.46 (FSI)</td> <td>U.L. R5692/01nk36633</td> </tr> <tr> <td>ASTM E 84</td> <td>Smoke Developed</td> <td>331.6 (SDI)</td> <td>U.L. R5692/01nk36633</td> </tr> <tr> <td>ASTM D-1929</td> <td>Self ignition:</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Flash ignition</td> <td>761°F</td> <td>S.W.R.I. 01.10085.01.627</td> </tr> <tr> <td></td> <td>Spontaneous Ignition</td> <td>928°F</td> <td>S.W.R.I. 01.10085.01.627</td> </tr> </tbody> </table>	Test	Description	Value	Report #	ASTM E 84	Flame spread	20.46 (FSI)	U.L. R5692/01nk36633	ASTM E 84	Smoke Developed	331.6 (SDI)	U.L. R5692/01nk36633	ASTM D-1929	Self ignition:				Flash ignition	761°F	S.W.R.I. 01.10085.01.627		Spontaneous Ignition	928°F	S.W.R.I. 01.10085.01.627
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	Spontaneous Ignition	928°F	S.W.R.I. 01.10085.01.627																									
⑨	2	Series "SF", Frame Jamb, Double Rabbet Profile w/ A-60 Coating Face Sheet Conforming to ASTM A653 Galvannealed CQ	16 Ga. (0.053 Min.) Steel Commercial Quality Galvannealed Steel (Minimum Yield Strength of 31,500 psi)	2 5/8" Face, 5-3/4" Depth Min.																								
⑩	2	Series "SF", Frame Head, Double Rabbet Profile w/ A-60 Coating Face Sheet Conforming to ASTM A653 Galvannealed CQ	16 Ga. (0.053 Min.) Steel Commercial Quality Galvannealed Steel (Minimum Yield Strength of 31,500 psi)	2 5/8" Face, 5-3/4" Depth Min.																								
⑪	Req'd	General Electric Caulk (GE All Purpose Silicone) For Weatherstrip Screws, Frame Perimeter, Frame Sill Corners and Under Sill	Silicone	Silicone Rubber General Household																								
⑫	2	Formed Steel Channel w/ A-60 Coating Conforming to ASTM A653 Galvannealed CQ on The Top of Both Doors, Spot Welded Both Skins @ 3 1/2" O.C.	Commercial Quality Galvannealed Steel (Minimum Yield Strength of 31,500 psi)	3/4" x 1.656" x 3/4" x 12 GA. (0.093 Min.) Cont.																								
⑬	2	Closer Reinforcement Conforming to ASTM A1008 and ASTM A568 at Each Closer Location at Top of Both Door Panels	Steel by Ceco Door Products, Die # 4-941	5 3/8" High x 1.636" x 14 GA (0.067 Min.) Channel																								
⑭	2	Horizontal Stiffener Conforming to ASTM A1008 and ASTM A568 Welded to Face Sheet	Commercial Quality Cold Rolled Steel (Minimum Yield Strength of 31,500 psi)	5/16" x 2 1/2" x 15/16" x 12 GA. (0.093 Min.) Channel																								
⑮	2	Formed Steel Channel w/ A-60 Coating Conforming to ASTM A653 on The Top of Both Doors, Spot Welded Both Skins @ 3 1/2" O.C.	Commercial Quality Galvannealed Steel (Minimum Yield Strength of 31,500 psi)	3/4" x 1.656" x 3/4" x 12 GA. (0.093 Min.) Cont.																								
⑯	2	National Guard Threshold #8135N on a Back Bed of Caulk ⑪	Extruded Aluminum (6063-T5 Alloy), with 1/4"x3/8" Silicone Weatherstrip	48" Long Ea. (1/2" High x 3 3/4" Wide x 0.093"/0.115" thick)																								
⑰	1	Curries Type 2 Vision Light Kit with 5/8" Pocket Conforming to ASTM A653 Galvannealed CQ w/ A-60 Coating	Commercial Quality Galvannealed Steel (Minimum Yield Strength of 31,500 psi)	18 Ga. (.042 Min.)																								
⑱	6	Hinge Reinforcing Plate, Spot Welded to Frame Jamb at Each Hinge Location	Steel by Ceco Door Products, Die # 4-732	1 1/4" x 9" x 7 GA.																								
⑲	6	Hinge Reinforcing Plate, Spot Welded to Door Edge at Each Hinge Location	Steel by Ceco Door Products, Die # 4-732	1 1/4" x 9" x 7 GA.																								
⑳	4	Door Lock Reinforcement Conforming to ASTM A1008 and ASTM A568	Steel by Ceco Door Products, Die # 4-941	5 1/4" x 1.636" x 12" x 12 Ga. (0.093" Min.)																								
㉑	2	Pemko Weatherstrip, Profile Number 303 AS	Mill Finish Aluminum Retainer (6063-T5 Alloy) with Silicone Seal	7/8"x1/4"(Alum.) + 1/4"x5/16" (Silicone) Attached w/ #6x5/8" S.D.S. @ 6" O.C.																								
㉒	1 Set	Hager Weatherstrip, Profile Number 891S, All Around Frame Jamb + Head	Mill Finish Aluminum Retainer (6063-T5 Alloy) with Silicone Seal	3/4"x1/4"(Alum.) + 1/4"x1/4" (Silicone) Attached w/ #6x3/4" S.D.S. @ 8" O.C.																								
㉓	2	Door Edge Reinforcement Conforming to ASTM A1008 and ASTM A568, Welded to Door Edge 8" on Center	Commercial Quality Cold Rolled Steel (Minimum Yield Strength of 31,500 psi)	1 1/64" x 1 9/32" x 1 1/64" x 12 Ga (0.093 Min.)																								
㉔	As Req'd	Glass Cut Out Perimeter Channels Conforming to ASTM A1008 and ASTM A568, Welded to Exterior and Interior Skins 8" on Center	Commercial Quality Cold Rolled Steel (Minimum Yield Strength of 31,500 psi)	1" x 1.656" x 1" x 12 Ga. (0.093 Min.)																								
㉕	1	Mullion Spacer Block at Top	Yale Security, Inc. Drawn Steel Aluminum Painted	0.625" x 1.250" x 2.375"																								
㉖	1	Frame Head Bracket Reinforcement at Mullion Conforming to ASTM A1008 and ASTM A568	Commercial Quality Cold Rolled Steel (Minimum Yield Strength of 31,500 psi)	1.625" x 3.468" x 14" x 12 Ga. (0.093 Min.)																								
㉗	Req'd	Existing Opening Anchor w/ 3/8" Kwik Bolt 3, by Hilti Inc., (f'c=2000 psi for concrete & f'm=1500 psi for grouted concrete block wall)	Golvanized Steel by Ceco Door Products, Die # 4-622	18 gage Thick																								
㉘	Req'd	Tapcons, by Elco Textron or ITW Buildex @ 10" o.c. and 3 3/8" from Ends, (f'c=3192 psi)	Steel	3/16" x 1 3/4" F.H.																								
㉙	1	Top Mullion Fitting	8620 Steel as per Yale Security, Inc. Series 7000 PART#60-7000-1412	3.38"x3.12"x2.25" W/ (4) 1/4"-20x1 1/4" M.S.																								
㉚	1	Mullion Foot Bracket	STEEL AISI 6150 OR 4140 AS PER YALE SECURITY INC. PART#60-2000-1164	3.5" x 1 17/32" x 1.75" x 0.25" Thick.																								
㉛	Req'd	Glazing Stop at Vision Light Sealant	Dow Corning 995 Structural Silicone																									
㉜	1	Bracket Mounting at Top of Mullion Fitting	ASTM C1010 as per Yale Security, Inc. Series 7000 PART#60-7000-1418	1/2" x 3.38" x 2.25" x 0.188" Thick.																								

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 09-0505.09 Expiration Date AUG. 5, 2014 By: <i>[Signature]</i> Miami Dade Product Control Division MIAMI-DADE COUNTY	 WALTER A. TILLIT Jr., P. E. P.E. SEAL/SIGNATURE/DATE	 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167	MATERIAL SPECIFICATIONS:  <div style="text-align: center; font-size: 24pt; font-weight: bold;">8070 &amp; 4070 Series</div> <div style="text-align: center; font-size: 24pt; font-weight: bold;">Bill Of Materials</div> <div style="text-align: center; font-size: 24pt; font-weight: bold;">CECO DOOR PRODUCTS</div> Milan, Tennessee 38358	REVISIONS: OLD 05-183 08/24/09
				DRAWN BY: M.C.V. / I.A. DATE: 08/24/09
				DRAWING NUMBER: <div style="font-size: 24pt; font-weight: bold;">09-159</div> Sheet 9 Of 16

**General Notes for 3070 Series Flush & Embossed Imperial Doors:**

1. Single 3070 Series Imperial Outswing Commercial Steel Door w/series "SF" frame jamb and head, shown on this Product Approval Document (P.A.D.) has been verified for compliance in accordance with the 2007 edition of the Florida Building Code. Door may be installed at High Velocity Hurricane Zones (Miami Dade / Broward Counties). Design wind loads shall be determined as per section 1620 of the above mentioned code. In order to verify that anchors on this P.A.D., as tested, were not overstressed, a 33% increase in allowable stress for wind loads was **NOT** used in their analysis. This Door's adequacy for impact and cyclic resistance has been verified in accordance with section 1626 of the above mentioned code as per TAS-201, TAS-202, TAS-203 protocols, as per Hurricane Test Laboratory, LLC. report #0345-0203-04 and as per submitted structural calculations, performed as per section 1612 of the Florida Building Code.

2. Design Pressure Rating: +70 psf, -70 psf

This Door IS NOT Approved for Water Infiltration

3. Minimum Frame Depth: 5 3/4"

4. See Sheets 7, 8 & 16 for Component Nomenclature

5. See Sheet 13 for Anchor Details and Location

6. All Dimensions are in inches

7. This Door **DOES NOT** require a Hurricane Protection Device

8. Provide 1/4" max. shim load Bearing shim space.

9. (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.

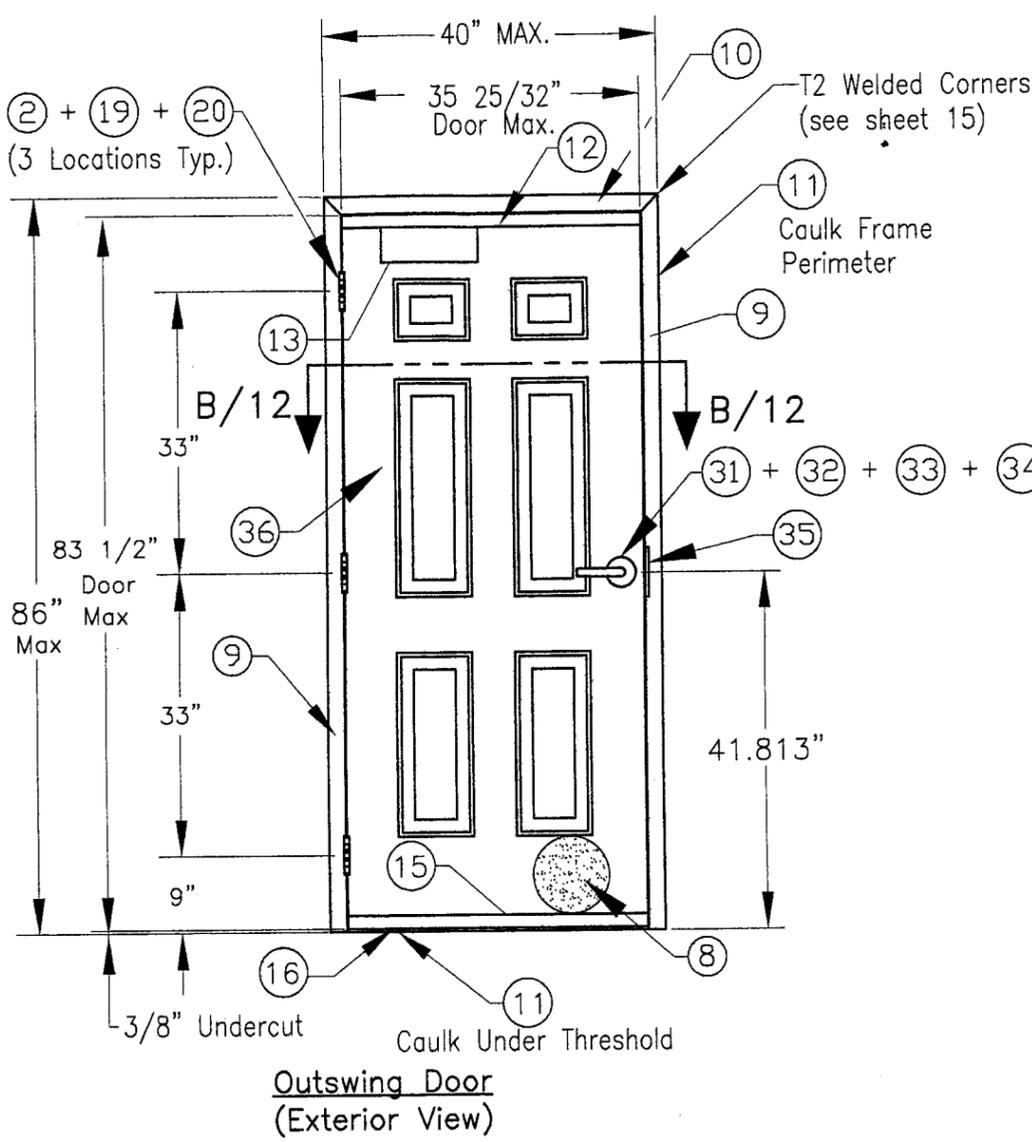
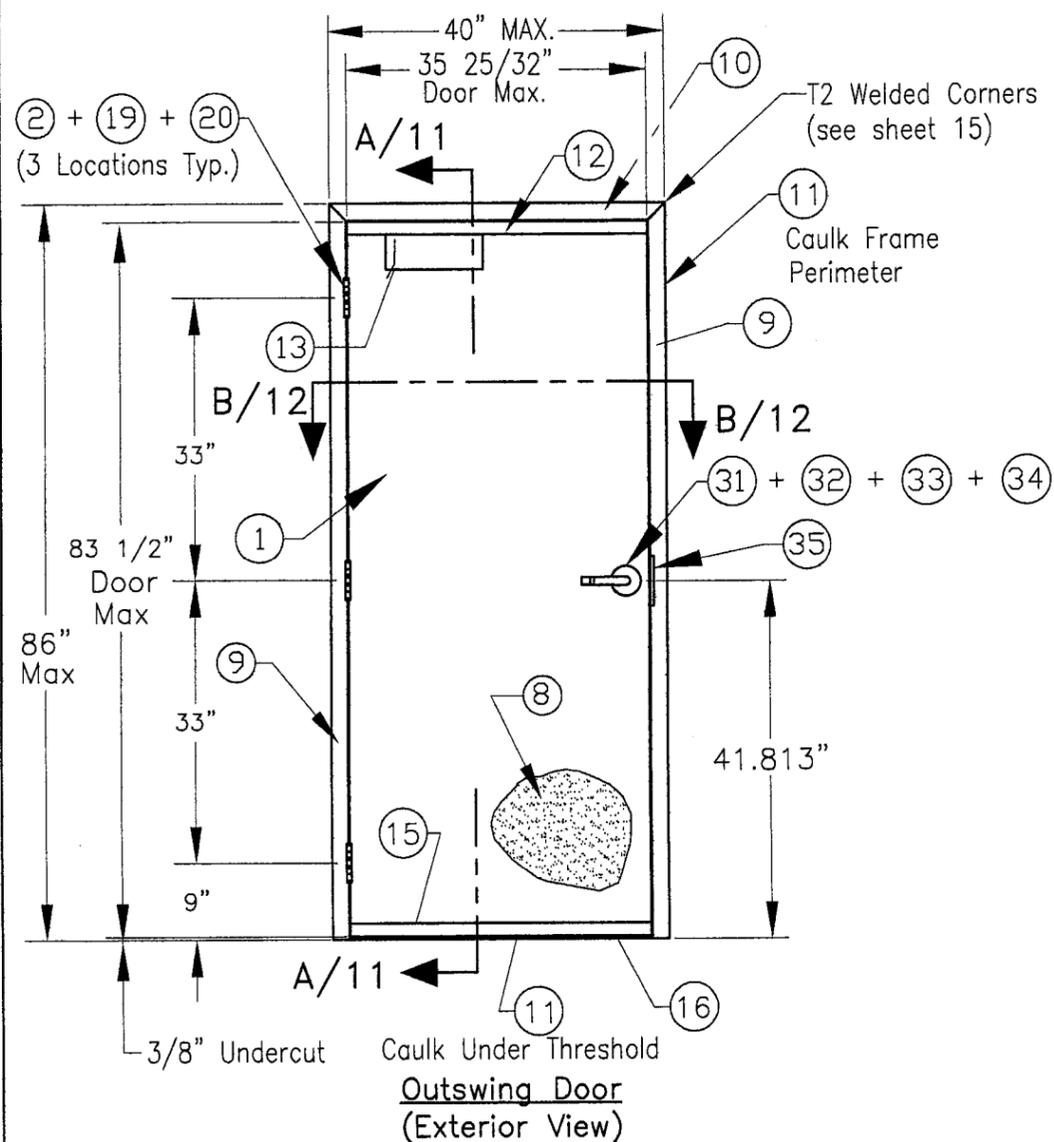
(b) Contractor to be responsible for the selection, purchase and installation including life safety of this product, based on this P.A.D., provided he/she does not deviate from the conditions detailed on this document. Construction safety at site is the contractor's responsibility.

(c) This P.A.D. will be considered invalid if altered by any means.

(d) Original P.A.D. shall bear the date and original seal and signature of the professional engineer of record that prepared it.

10. Door's manufacturer label shall be placed on the exposed surface of (9) or (10). One label shall be placed for every opening. Label shall read as follows:

**CECO DOOR PRODUCTS**  
9159 Telecom Drive  
Milan, Tennessee  
Miami-Dade County Product Control Approved.



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No **09-0505.09**  
Expiration Date **AUG. 5, 2014**  
By **Walter A. Tillit Jr.**  
Miami Dade Product Control  
Division  
MIAMI-DADE COUNTY

*Walter A. Tillit Jr.*  
8/26/09  
WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE

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

MATERIAL SPECIFICATIONS:  
Finish: Rust Inhibitive  
Primer, One Coat

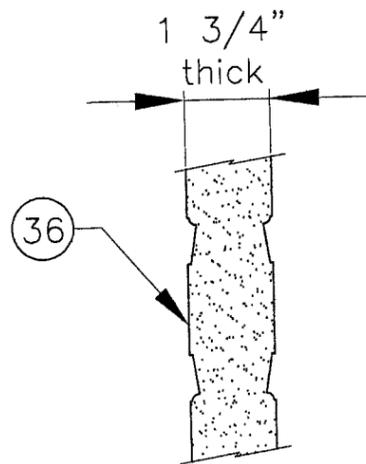
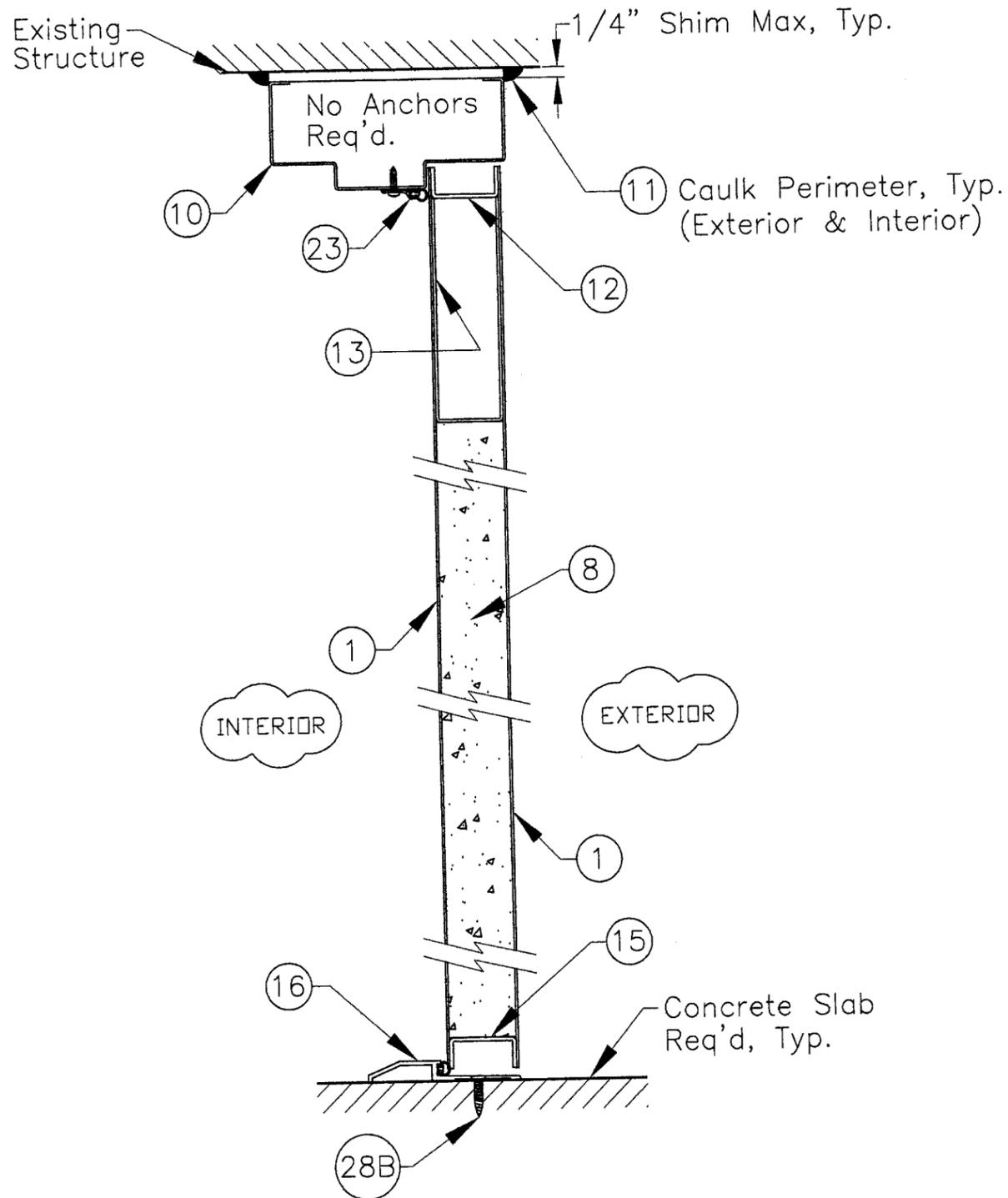
3070 Series Elevation Drawing  
Flush & Embossed Imperial Doors

**CECO DOOR PRODUCTS**  
Milan, Tennessee 38358

REVISIONS: OLD 05-183 08/24/09

DRAWN BY: M.C.V. / I.A. DATE: 08/24/09

DRAWING NUMBER:  
09-159  
Sheet 10 Of 16



Embossed Skins  
Optional

See Sheets 7, 8 & 16  
for Components Nomenclature

(See Sheet 13 for Spacings)

**Section A-A**

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No 09-0505.09  
Expiration Date Aug. 31, 2014  
By Walter A. Tillit Jr.  
Miami Dade Product Control  
Division  
MIAMI-DADE COUNTY

Walter A. Tillit Jr.  
8/24/09  
WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE

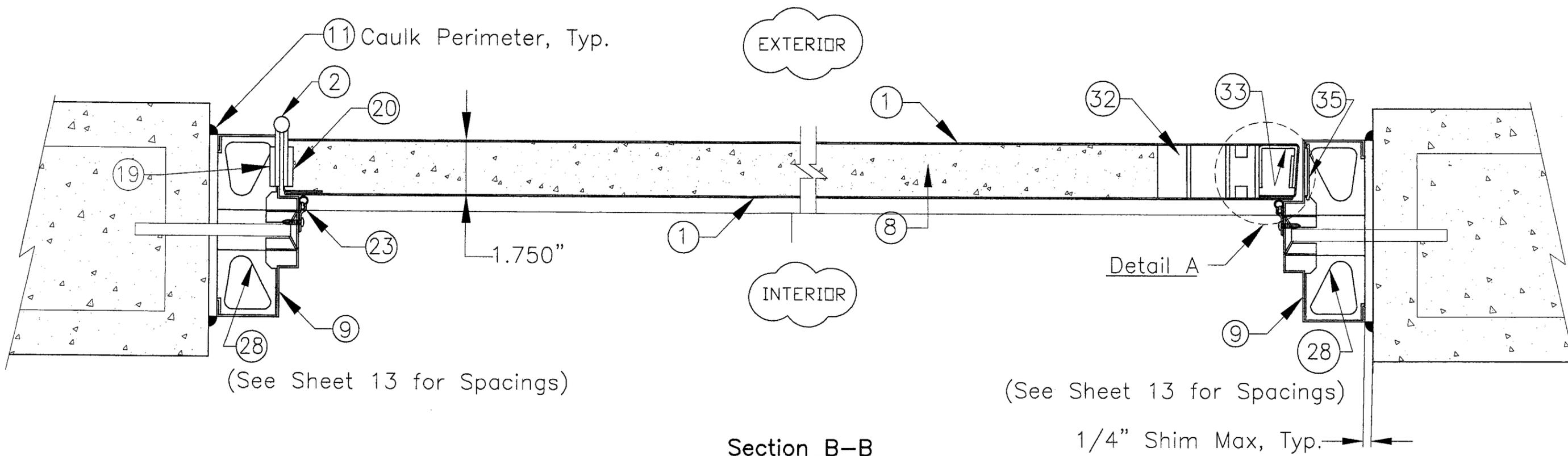
**TILECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166  
Phone : (305)871-1530 . Fax : (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

MATERIAL SPECIFICATIONS:

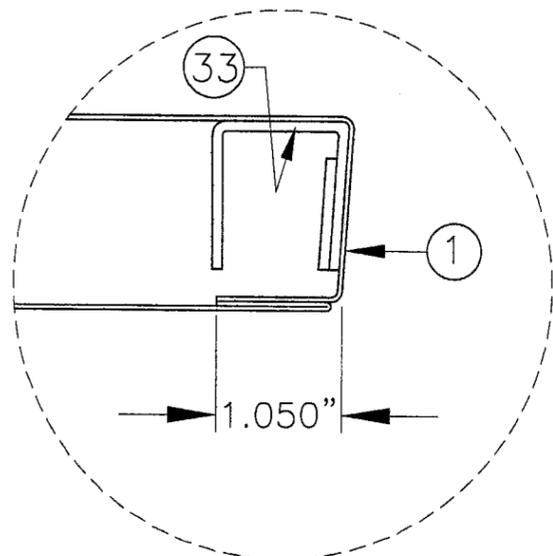
Vertical Cross Section  
3070 Imperial Door

**CECO DOOR PRODUCTS**  
Milan, Tennessee 38358

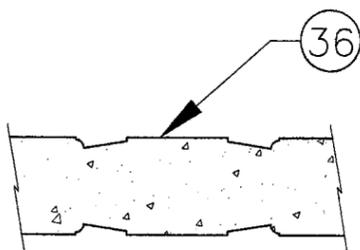
REVISIONS: OLD 05-183 08/24/09  
DRAWN BY: M.C.V. / I.A. DATE: 08/24/09  
DRAWING NUMBER:  
09-159  
Sheet 11 Of 16



**Section B-B**



**Detail A**



**Embossed Skins  
Optional**

See Sheets 7, 8 & 16  
for Components Nomenclature

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT RENEWED  
as complying with the Florida  
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Acceptance No 09-0505.09  
Expiration Date AUG. 5, 2014  
By Ishaq I. Chand  
Miami Dade Product Control  
Division  
MIAMI-DADE COUNTY

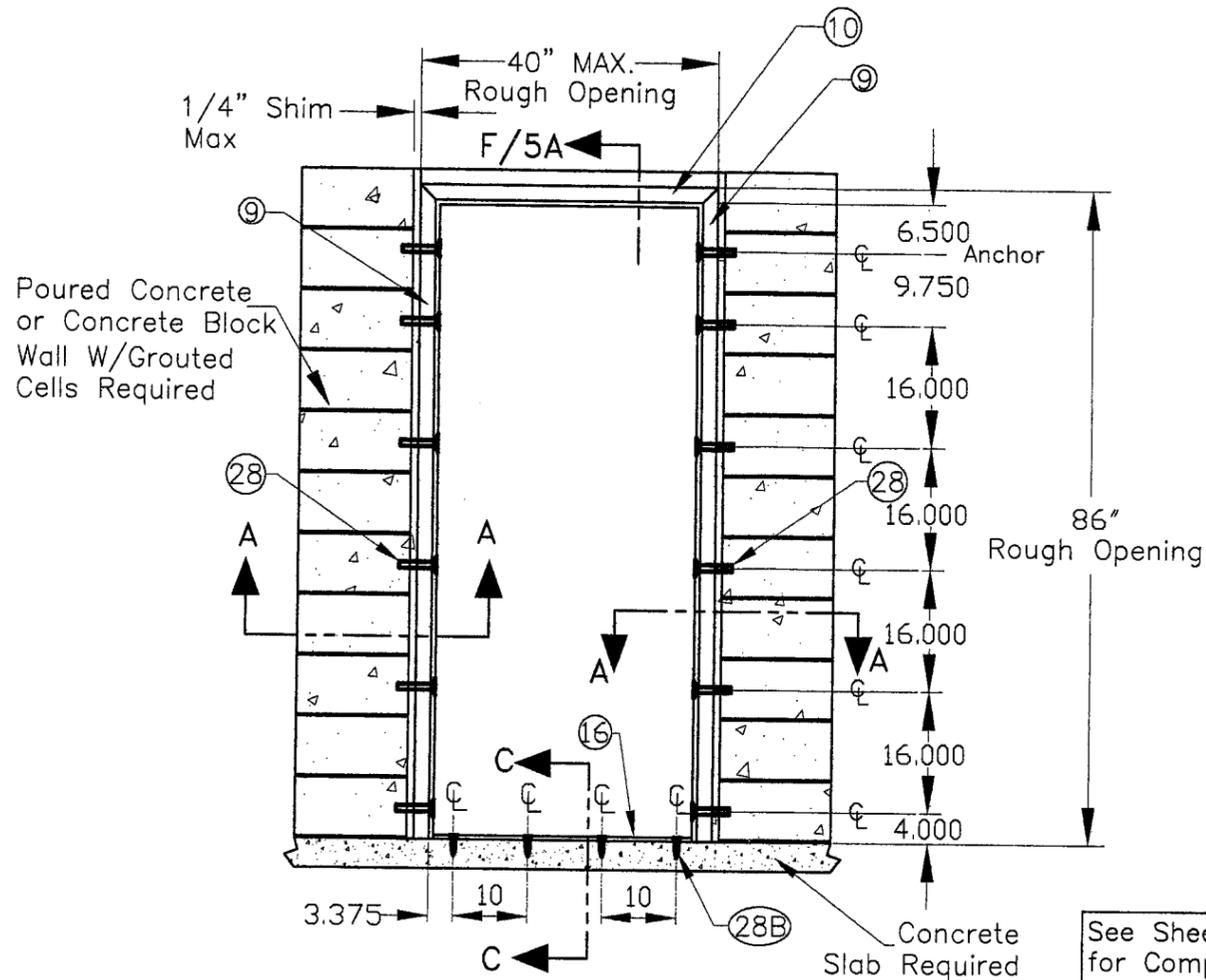
*Walter A. Tillit Jr.*  
8/26/09  
WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE

**TILECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
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Phone : (305)871-1530 • Fax : (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

MATERIAL SPECIFICATIONS:

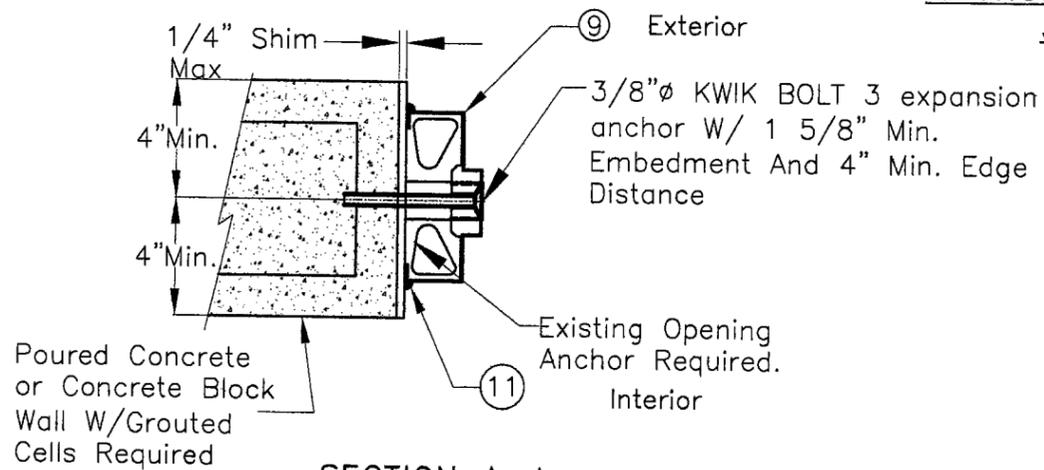
Horizontal Cross Section  
3070 Imperial Door  
**CECO DOOR PRODUCTS**  
Milan, Tennessee 38358

REVISIONS: OLD 05-183 08/24/09  
DRAWN BY: M.C.V. / I.A. DATE: 08/24/09  
DRAWING NUMBER:  
09-159  
Sheet 12 Of 16



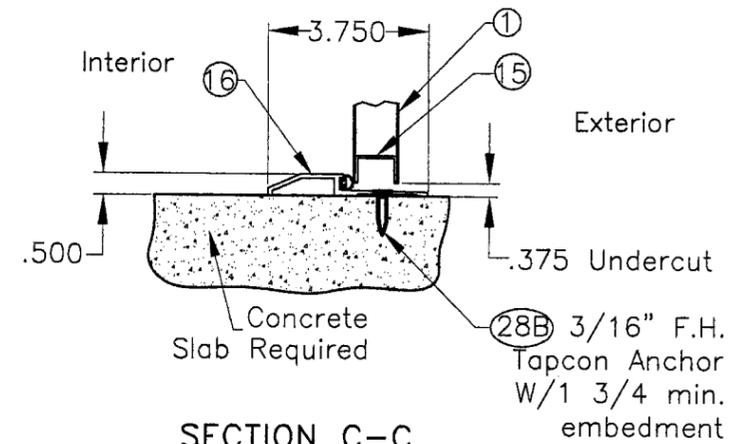
See Sheets 7, 8 & 16 for Components Nomenclature

**ANCHORS AT CONCRETE BLOCK WALL  
3-0 x 7-0 DOOR SIZE**



**SECTION A-A**

**(28) ANCHOR BOLT AT MASONRY WALL**



**SECTION C-C**

**(28B) ANCHORS AT (16) THRESHOLD  
(NATIONAL GUARD 8135N)**

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 09-0505.09  
Expiration Date AUG. 5, 2014  
By *Isaac I. Chaudhry*  
Miami Dade Product Control  
Division  
MIAMI-DADE COUNTY

*Walter A. Tillit Jr.*  
8/24/09  
WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE

**TILECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166  
Phone: (305)871-1530, Fax: (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

MATERIAL SPECIFICATIONS:

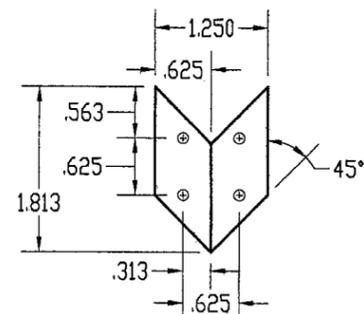
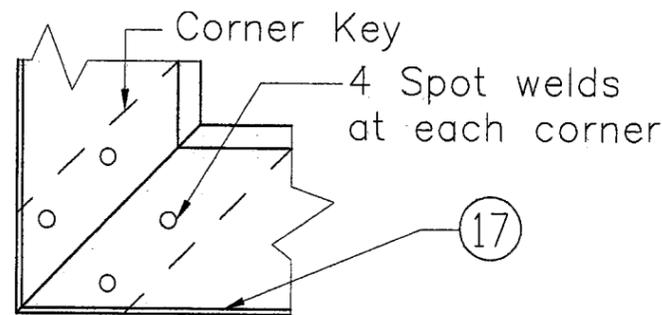
Frame Anchor Installation  
Details, 3070 Imperial Doors

**CECO DOOR PRODUCTS**  
Milan, Tennessee 38358

REVISIONS: OLD 05-183 08/24/09

DRAWN BY: M.C.V. / I.A. DATE: 08/24/09

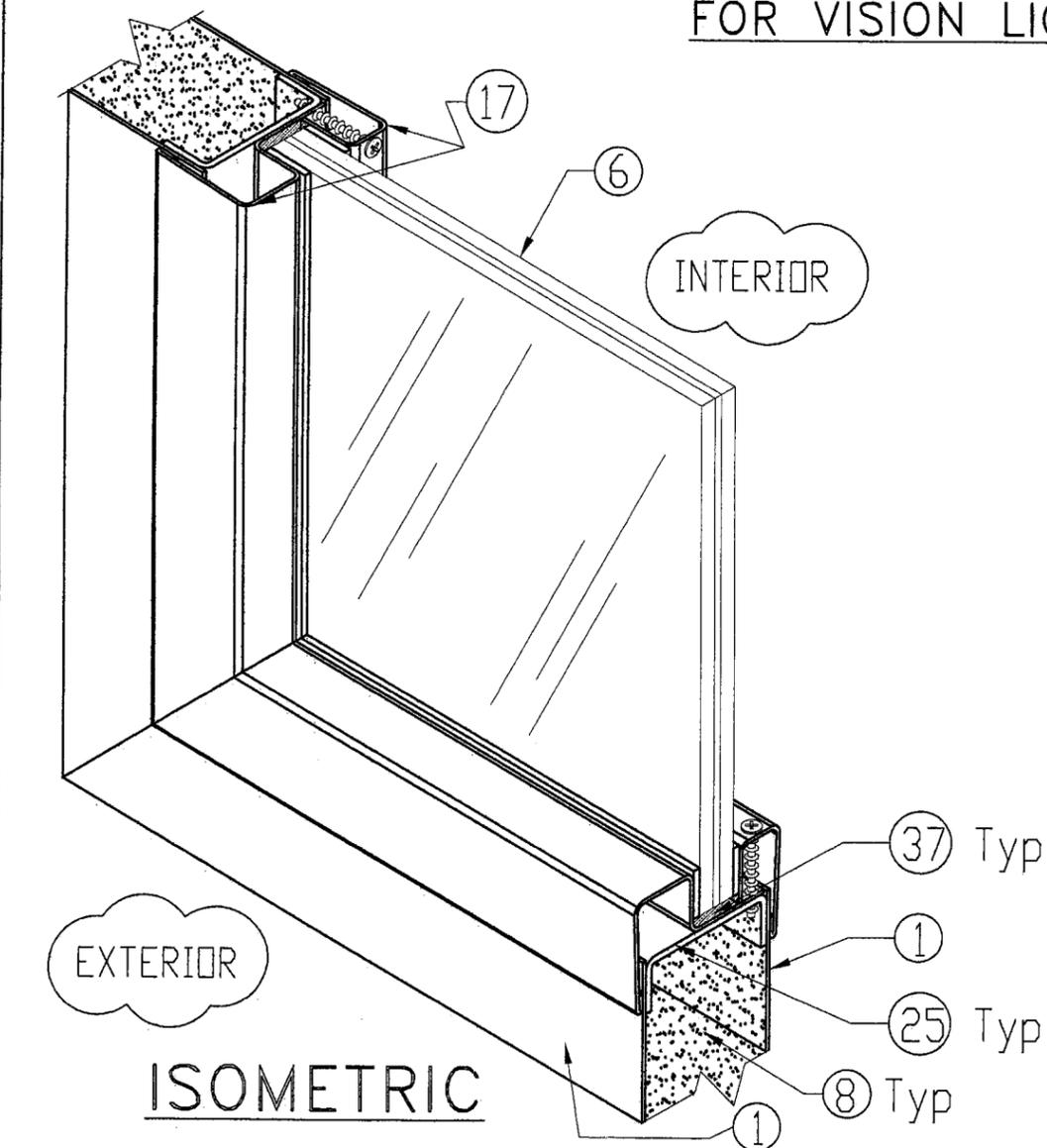
DRAWING NUMBER:  
09-159  
Sheet 13 Of 16



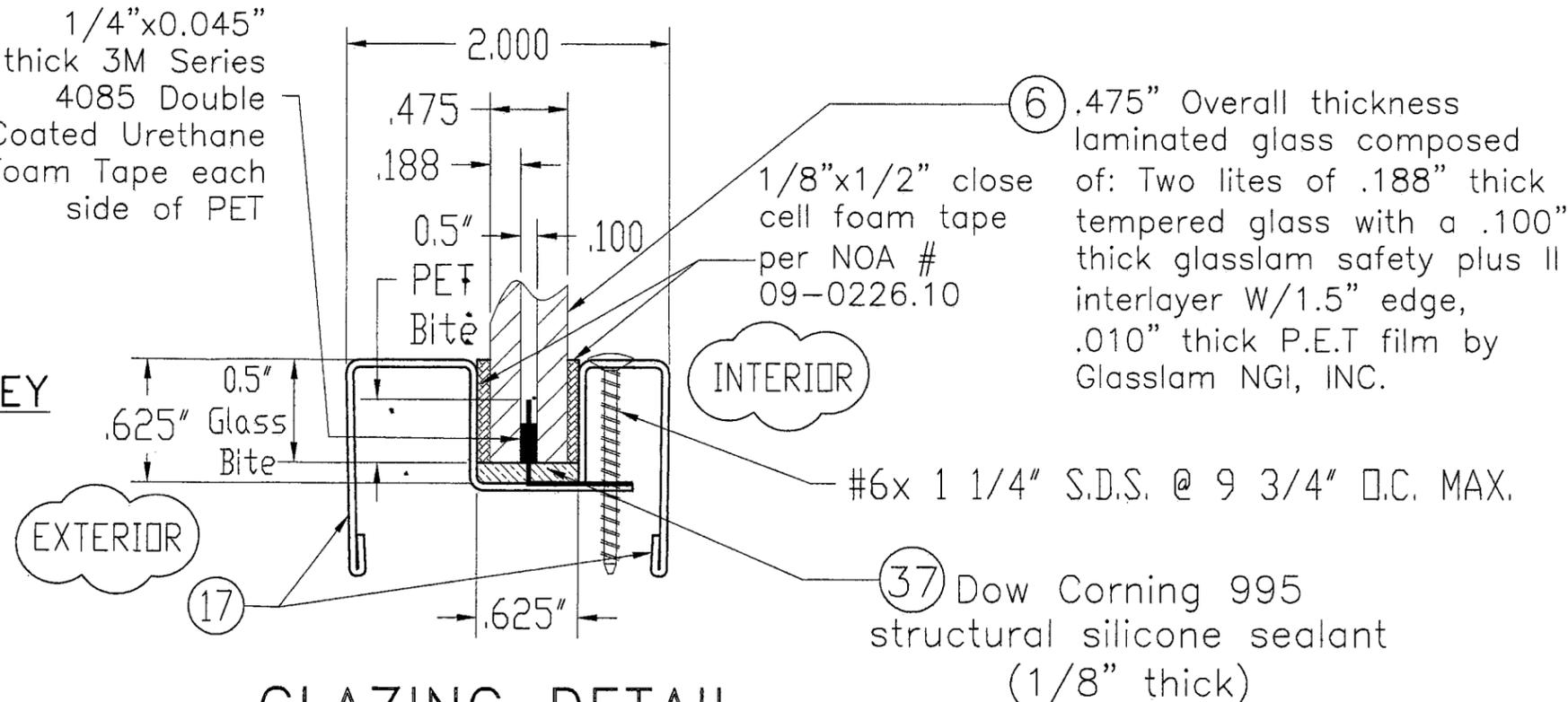
1/4"x0.045" thick 3M Series 4085 Double Coated Urethane Foam Tape each side of PET

**VISION LIGHT CORNER WELD DETAIL**

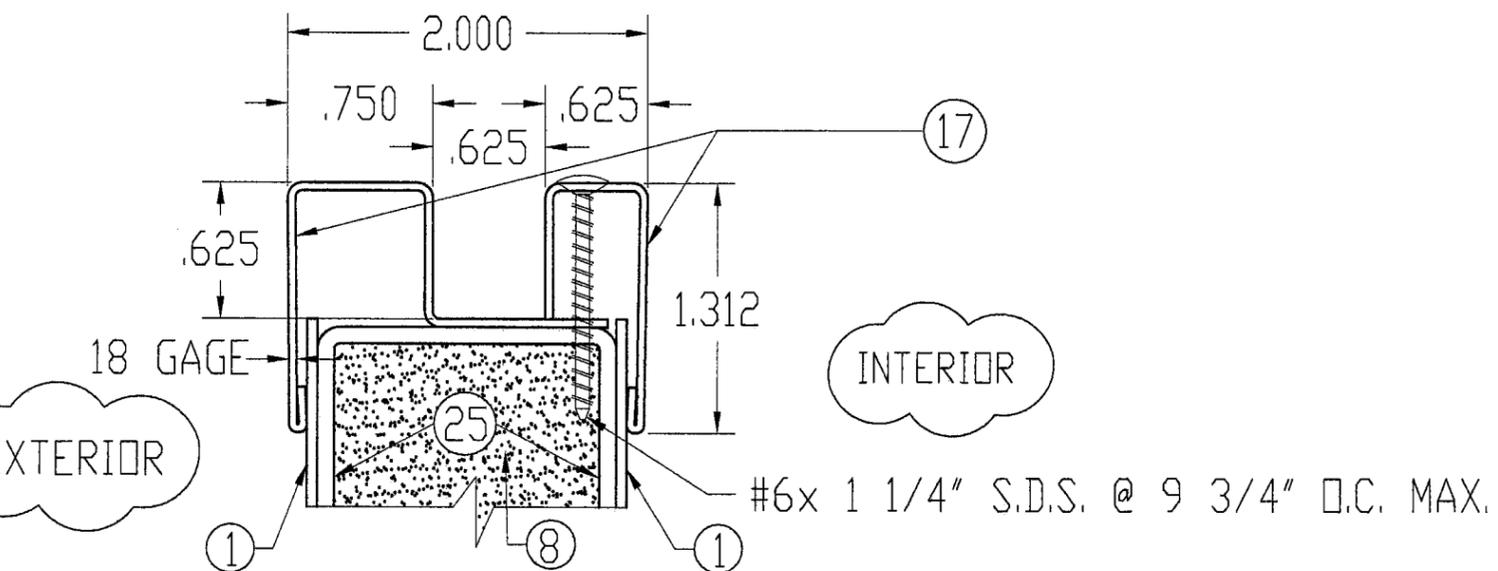
**18 GAGE CORNER KEY FOR VISION LIGHT**



**ISOMETRIC**



**GLAZING DETAIL**



**VISION LIGHT FRAME DETAIL**

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT RENEWED as complying with the Florida Building Code  
Acceptance No 09-0505.09  
Expiration Date Aug. 5, 2014  
By *Klagl, Chav*  
Miami Dade Product Control  
Division MIAMI-DADE COUNTY

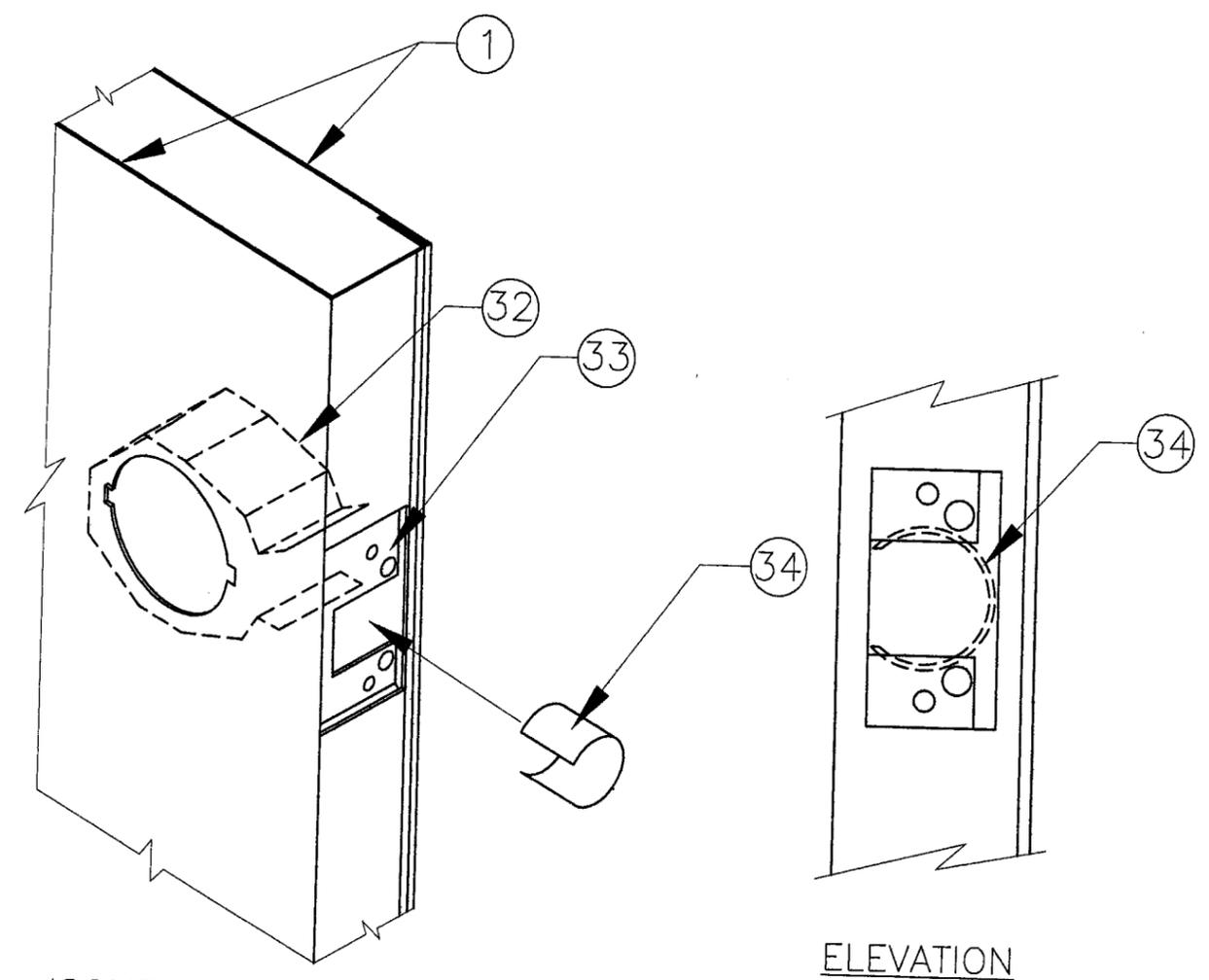
*Walter A. Tillit Jr.*  
WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE

**TILECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166  
Phone : (305)871-1530 Fax : (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

MATERIAL SPECIFICATIONS:

8070 & 4070 Series Doors  
Vision Light Kit Details  
**CECO DOOR PRODUCTS**  
Milan, Tennessee 38358

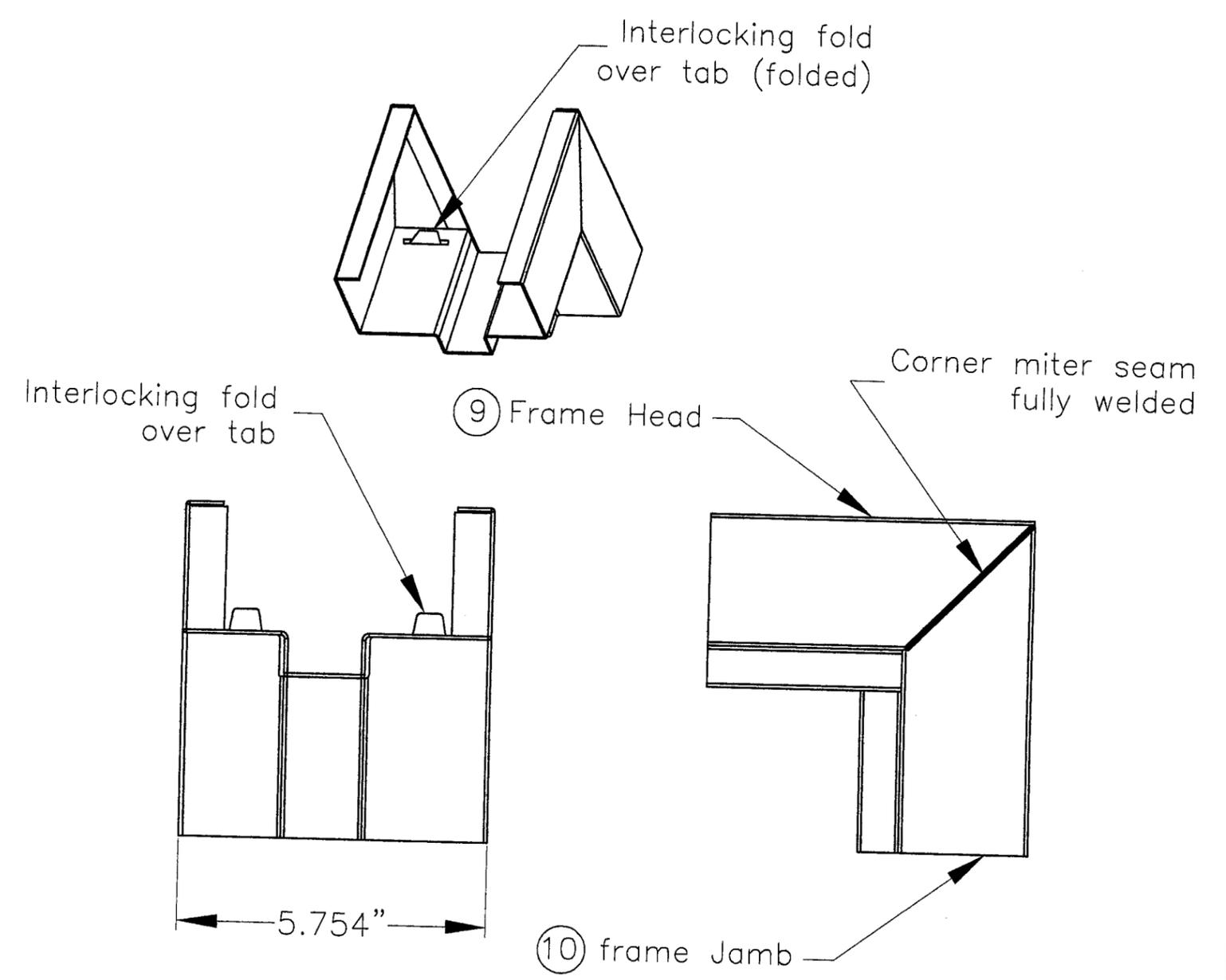
REVISIONS: OLD 05-183 08/24/09  
DRAWN BY: M.C.V. / I.A. DATE: 08/24/09  
DRAWING NUMBER: 09-159  
Sheet 14 Of 16



ISOMETRIC

ELEVATION

CYLINDRICAL LOCK DETAILS



FRAME CORNER CONDITION

<p>PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 09-0505.09 Expiration Date AUG. 5, 2014</p> <p>By <i>Walter A. Tillit Jr.</i> Miami Dade Product Control Division MIAMI-DADE COUNTY</p>	<p><i>Walter A. Tillit Jr.</i> 8/24/09</p> <p>WALTER A. TILLIT Jr., P. E. P.E. SEAL/SIGNATURE/DATE</p>	<p><b>TILECO INC.</b> TILLIT TESTING &amp; ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167</p>	<p>MATERIAL SPECIFICATIONS:</p>	<p>FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)</p>	
				<p>Cylindrical Lock Details And Frame Corner Condition For 3070 Imperial Door</p> <p><b>CECO DOOR PRODUCTS</b> Milan, Tennessee 38358</p>	<p>REVISIONS: OLD 05-183 08/24/09</p> <p>DRAWN BY: M.C.V. / I.A. DATE: 08/24/09</p> <p>DRAWING NUMBER: 09-159 Sheet 15 Of 16</p>

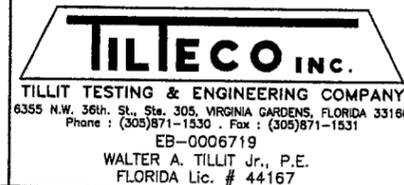
**BILL OF MATERIALS**

ITEM	QTY	DESCRIPTION	MATERIAL	SIZE																								
①	2 Per	Face Sheet Conforming to ASTM A1008 and ASTM A568 at Flush Imperial Doors w/ Galvanneal A-60 Coating.	Commercial Quality Cold Rolled Steel (Minimum Yield Strength of 38,000 psi)	16 Gauge (.053" Min. thick)																								
②	3	Hager BB1199, Steel Hinge Each Attached with Eight #12-24 x 1/2" F.H. M.S.	Steel	4 1/2" x 4 1/2" x 0.180" thick.																								
⑧	Req'd	Urethane Core (Elastopor® P16293R Resin Component/Elastopor® P1001U Isocyanate)	Polymeric MDI, Foam System is a two part liquid, self adhesive to skin when cured.	2 lb/ft <sup>3</sup> Density, w/ the following Fire Burning characteristics <table border="1"> <thead> <tr> <th>Test</th> <th>Description</th> <th>Value</th> <th>Report #</th> </tr> </thead> <tbody> <tr> <td>ASTM E 84</td> <td>Flame spread</td> <td>20.46 (FSI)</td> <td>U.L R5692/01nk36633</td> </tr> <tr> <td>ASTM E 84</td> <td>Smoke Developed</td> <td>331.6 (SDI)</td> <td>U.L R5692/01nk36633</td> </tr> <tr> <td>ASTM D-1929</td> <td>Self Ignition:</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Flash ignition</td> <td>761°F</td> <td>S.W.R.I. 01.10085.01.627</td> </tr> <tr> <td></td> <td>Spontaneous Ignition</td> <td>928°F</td> <td>S.W.R.I. 01.10085.01.627</td> </tr> </tbody> </table>	Test	Description	Value	Report #	ASTM E 84	Flame spread	20.46 (FSI)	U.L R5692/01nk36633	ASTM E 84	Smoke Developed	331.6 (SDI)	U.L R5692/01nk36633	ASTM D-1929	Self Ignition:				Flash ignition	761°F	S.W.R.I. 01.10085.01.627		Spontaneous Ignition	928°F	S.W.R.I. 01.10085.01.627
Test	Description	Value	Report #																									
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	Flash ignition	761°F	S.W.R.I. 01.10085.01.627																									
	Spontaneous Ignition	928°F	S.W.R.I. 01.10085.01.627																									
⑨	2	Series "SF", Frame Jamb, Double Rabbet Profile w/ Galvanneal A-60 Coating. Face Sheet Conforming to ASTM A1008 and ASTM A568	16 Ga. (0.053 Min.) Steel Commercial Quality Cold Rolled Steel (Minimum Yield Strength of 31,500 psi)	2 5/8" Face, 5-3/4" Depth Min.																								
⑩	1	Series "SF", Frame Head, Double Rabbet Profile w/ Galvanneal A-60 Coating. Face Sheet Conforming to ASTM A1008 and ASTM A568	16 Ga. (0.053 Min.) Steel Commercial Quality Cold Rolled Steel (Minimum Yield Strength. of 31,500 psi)	2 5/8" Face, 5-3/4" Depth Min.																								
⑪	Req'd	General Electric Caulk (GE All Purpose Silicone) For Weatherstrip Screws, Frame Perimeter, Frame Sill Corners and Under Sill	Silicone	Silicone Rubber General Household																								
⑫	1	Formed Steel Channel w/ Galvanneal A-60 Coating (Conforming to ASTM A1008 and ASTM A568) on the Top of Both Doors, Spot Welded Both Skins @ 3 1/2" O.C.	Commercial Quality Cold Rolled Steel (Minimum Yield Strength of 31,500 psi)	3/4" x 1.656" x 3/4" x 12 GA. Cont. (0.093 Min.) Cont.																								
⑬	1	Closer Reinforcement w/ Galvanneal A-60 Coating, Conforming to ASTM A1008 and ASTM A568, at Each Closer Location at Top of Both Door Panels	Steel by Ceco Door Products, Die # 4-941	5 3/8" High x 1.636" x 14 GA. (0.067 Min.) Channel																								
⑮	1	Formed Steel Channel w/ Galvanneal A-60 Coating (Conforming to ASTM A1008 and ASTM A568) on the Top of Both Doors, Spot Welded Both Skins @ 3 1/2" O.C.	Commercial Quality Cold Rolled Steel (Minimum Yield Strength of 31,500 psi)	3/4" x 1.656" x 3/4" x 12 GA. (0.093 Min.) Cont.																								
⑯	1	National Guard Threshold #8135N on a Back Bed of Caulk ⑪	Extruded Aluminum (6063-T5 Alloy), with 1/4"x3/8" Silicone Weatherstrip	48" Long Ea. (1/2" High x 3 3/4" Wide x 0.093"/0.115" thick)																								
⑲	3	Hinge Reinforcing Plate, Spot Welded to Frame Jamb at Each Hinge Location	Steel by Ceco Door Products, Die # 4-732	1 1/4" x 9" x 7 GA.																								
⑳	3	Hinge Reinforcing Plate, Spot Welded to Door Edge at Each Hinge Location	Steel by Ceco Door Products, Die # 4-732	1 1/4" x 9" x 7 GA.																								
㉓	1 Set	Hager Weatherstrip, Profile Number 891S, All Around Frame Jamb + Head	Mill Finish Aluminum Retainer (6063-T5 Alloy) with Silicone Seal	3/4"x1/4"(Alum.) + 1/4"x1/4" (Silicone) Attached w/ #6x3/4" S.D.S. @ 8" O.C.																								
㉔	Req'd	Existing Opening Anchor w/ 3/8" Kwik Bolt 3, by Hilti Inc., (f'm=1500 psi)	Galvanized Steel by Ceco Door Products, Die # 4-622	18 Gage Thick																								
㉔B	Req'd	Existing Opening Anchor w/ 3/8" Kwik Bolt 3, by Hilti Inc., (f'c=2000 psi & f'm=1500 psi)	Steel	3/16"Øx1 3/4" F.H.																								
㉕	1	Best 93K7D15D-S3-626 Cylindrical Lock	As per Best Access Systems DWG # 04-000-0021b																									
㉖	1	Cylindrical Lock Guard	Galvanized Steel 18 gage CR (0.042) x 10.75 Coil, by Ceco Door Products, Die # 4-741	1.605" x 3.280" x 18 Ga. (0.042 Min.)																								
㉗	1	Cylindrical Lock Reinforcement	Steel, by Ceco Door Products, Die # RD0528	1 1/4" x 4 1/4" x 12 ga. (0.093 min.)																								
㉘	1	Door Latch Reinforcement, Steel "C" Ring w/ Galvanneal A-60 Coating.	Steel (C 1010 Galvanized CRS Temper NY), by Ceco Door Products, Die # DM-21, Part No. 7000340	.015" Thick x 1.313" Inside Diameter x 0.975" Long																								
㉙	1	Frame Strike Reinforcement w/ Galvanneal A-60 Coating, Spotwelded To Lock Jamb at Strike Location	Steel, by Ceco Door Products, Die # LKREF-11, Part No LSRA	1.750" x 7.000" x 12 ga. (0.093 min.)																								
㉚	2 Per	Face Sheet Conforming to ASTM A1008 and ASTM A568 at Embossed Imperial Doors w/ Galvanneal A-60 Coating.	Commercial Quality Galvanneled Steel (Minimum Yield Strength of 31,500 psi)	16 Gauge (0.053" Min. Thick)																								

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT RENEWED  
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By: *Shag L. Chan Jr.*  
Miami Dade Product Control  
MIAMI-DADE COUNTY

*Walter A. Tillit Jr.*  
8/26/09  
WALTER A. TILLIT Jr., P. E.  
P.E. SEAL/SIGNATURE/DATE



MATERIAL SPECIFICATIONS:

3070 Series  
Bill Of Materials



REVISIONS: OLD 05-183 08/24/09

DRAWN BY: M.C.V. / I.A. DATE: 08/24/09

DRAWING NUMBER:  
09-159  
Sheet 16 Of 16