



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](http://www.miamidade.gov/economy)

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

**Kawneer Company, Inc.**  
**555 Guthridge Court**  
**Norcross, GA 30092**

**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: Series 350 HW Aluminum Outswing Storefront Doors**

**APPROVAL DOCUMENT:** Drawing No. 1821, titled "IR 350/500 HW Wind Zone 4-LMI Outswing Doors", sheets 1 through 12 of 12, prepared by W.W Schaefer Engineering & Consulting, P.A., dated NOV 15, 2012, signed and sealed by Warren W. Schaefer, 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**

- Limitations:**
1. See Design Pressure (DP) for Door opening size VS Frame, glass and lock options in sheet 1.
  2. Max. frame unit sizes in punched openings per sheet 2, 4, 5 & 6 must be as follows:
    - 2.1 Door opening width" + 5"(IR 500/IR 501 frame) OR +4" (TRIFAB 450 ) OR +3.5" (TRIFAB 451)
    - 2.2 Door opening height" + 2.5"(IR 500/IR 501 frame) OR +2" (TRIFAB 450 ) OR +1.75" (TRIFAB 451)
  3. When Doors are used in Storefront or Curtain Wall system, lower DP of the door or System shall control.
  4. Item #3, IR 500/501 Head frame must be a single piece extrusion.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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 #12-0823.11 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

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



7/22/14

NOA No. 14-0430.04  
 Expiration Date: December 13, 2017  
 Approval Date: July 31, 2014  
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (submitted under file #12-0823.11)
2. Drawing No. **1821**, titled "IR 350/500 HW Wind Zone 4-LMI Outswing Doors", sheets 1 through 12 of 12, prepared by W.W Schaefer Engineering & Consulting, P.A., dated NOV 15, 2012, signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS** (submitted under file #12-0823.11)

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 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of aluminum outswing storefront doors, prepared by Architectural Testing, Inc., Test Report No. **B3877-01-550-18** dated 05/22/12 (Specimen # 1A, 1B, 1C, 1D, 2A, 2B, 3, 4 &5), signed and sealed by Vinu Abraham, P. E.

2. Reference Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, 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 aluminum outswing door and outswing door w/ storefront, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-G049-0804-10**, dated 10/26/10, **HTL-G049-0201-09** dated 07/01/09, **HTL-G049-0310-08**, dated 09/23/08, **HTL-G049-1005-06** dated 01/31/07 and **HTL-G049-0111-06** dated 01/17/06, all signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS** (submitted under file #12-0823.11)

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by W.W Schaefer Engineering & Consulting, P.A., dated NOV 15, 2012, signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies w/ ASTME-1300-02 & -04

**D. QUALITY ASSURANCE**

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



Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No. 14-0430.04

Expiration Date: December 13, 2017  
Approval Date: July 31, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Sentry Glass ®", expiring on 01/14/17.
2. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite PVB ®", expiring on 12/11/16.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014(5<sup>th</sup> Edition) and letter of no financial interest, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated April 14, 2014, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter, prepared by W. W. Schaefer Engineering & Consulting, P.A. dated April 10, 2014, of NOA Drawings, testing and calculation have been reviewed to 2014 FBC and found compliant and that No change to existing NOA documents are required, signed by Warren W. Schaefer, P.E.
3. Statement letter of conformance to FBC 2010 and letter of no financial interest dated 11/15/12, prepared, signed and sealed by Warren W. Schaefer, P.E. (submitted under file #12-0823.11)
4. Lab compliance as part of the above referenced test report.

**G. OTHER**

1. This NOA revises NOA # #12-0823.11, expiring 12/13/2017.
2. Test proposal #11-1222, dated 11/12/11 approved by PERA.



Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No. 14-0430.04

Expiration Date: December 13, 2017

Approval Date: July 31, 2014

**ALLOWABLE SIZE/PRESSURE TABLE**

DOOR TYPE	MAX. DOOR OPENING WIDTH (IN.)	MAX. DOOR OPENING HEIGHT (IN.)	MAX. D.L.O. WIDTH (IN.)	MAX. D.L.O. HEIGHT (IN.)	LOCK OPTION (3)	GLASS OPTION (1)	MISSILE LEVEL (2)	ALLOWABLE PRESSURE (+/- PSF)	
								DOORS IN 450, 451 OR 1600 FRAMES	DOORS IN IR500/501 FRAMES
DOUBLE	96	96	38 13/16	83 13/16	1 OR 2	1, 2 OR 5	D	110	90
	96	96	38 13/16	83 13/16	1	5	E	110	90
	72	108	30 13/16	95 3/16	1 OR 2	1 OR 2	D	110	90
	96	96	38 13/16	83 13/16	1 THRU 3	1, 2, 3 & 5	D	70	70
	72	96	30 13/16	83 13/16	1 THRU 3	4	D	60	60
SINGLE	48	96	38 13/16	83 13/16	1 OR 2	1, 2 OR 5	D	110	90
	48	96	38 13/16	83 13/16	1	5	E	110	90
	36	108	30 13/16	95 3/16	1 OR 2	1 OR 2	D	110	90
	48	96	38 13/16	83 13/16	1 THRU 3	1, 2, 3 & 5	D	70	70
	36	96	30 13/16	83 13/16	1 THRU 3	4	D	60	60

**LOCK OPTIONS:**

- **OPTION 1** = ADAMS RITE 1850 3 POINT LOCK AT ACTIVE PANEL (ITEM #57) & ADAMS RITE FLUSHBOLTS AT HEAD AND SILL (ITEM #58) OF INACTIVE PANEL.
- **OPTION 2** = KAWNEER 1686 DEADBOLT & PANIC DEVICE (ITEM #59) AT ACTIVE PANEL & KAWNEER 1686 PANIC DEVICE (ITEM #60) AT INACTIVE PANEL.
- **OPTION 3** = SCHLAGE DEADBOLT WITH & EITHER FALCON HH 1690 OR VON DUPRIN HH9947 CVR PANIC DEVICE (ITEM #61) AT ACTIVE PANEL & EITHER FALCON HH 1690 OR VON DUPRIN HH9947 CVR PANIC DEVICE (ITEM #62) AT INACTIVE PANEL.

**PRESSURE TABLE FOOTNOTES:**

(1) FOR GLASS OPTIONS SEE GLAZING DETAILS ON SHEET 11.  
 (2) WHEN MISSILE LEVEL E IS REQUIRED ONLY LOCK OPTION 1 & GLASS OPTION 5 ARE APPLICABLE.

**NOTE:** THESE DOORS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE--BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC SECTION 1715.5.

**GENERAL NOTES:**

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

**FRAME ANCHOR REQUIREMENTS TABLE**

OPENING TYPE (SUBSTRATE)	FRAME & MULLION PLATE TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
<b>FRAME SCREWS</b>			
(2) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	NO. 14 OR 1/4" GR. 5 COARSE THREAD SCREW OR 1/4" CONCRETE SCREW	1 1/4"	3/4"
MIN. 16 GA. 33 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(3) MIN. C-90 CONCRETE FILLED BLOCK	(1) 1/4" CONCRETE SCREW	1 1/2"	2 1/2"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2 1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).  
 (2) 2X6 BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS BUT NO LESS THAN 4 1/4".  
 (3) CONCRETE FILLED BLOCK SUBSTRATE IS NOT APPLICABLE AT HEAD & SILL

**CORNER CONSTRUCTION:**

**TRIFAB 450 OR 451 FRAME HEAD:** VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #17). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 4 NO. 10 X 1 19/32" PHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 10 X 9/16" FHTF SCREWS. CORNERS ARE SEALED WITH SILICONE SEALANT.

**IR500/501 FRAME HEAD:** VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #18). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 4 NO. 12 X 1 7/8" FHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE MULLION WITH 3 NO. 12 X 1" PHTF SCREWS. CORNERS ARE SEALED WITH SILICONE SEALANT.

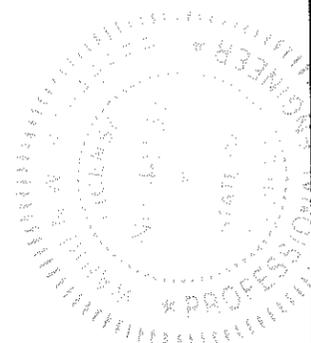
**FRAME HEAD WITHIN 1600 SYSTEM 1 CURTAIN WALL:** VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #19). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 4 NO. 10 X 1 19/32" PHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 10 X 9/16" FHTF SCREWS. CORNERS ARE SEALED WITH SILICONE SEALANT.

**SILL:** VERTICAL MEMBERS RUN THROUGH WHILE THE THRESHOLD IS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBER VIA A PIVOT ASSEMBLY OR CLIP (ITEM #30). THE CLIP IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 3 NO. 12-24 X 3/8" FHMS. THE THRESHOLD MEMBER IS ATTACHED TO THE CLIP BLOCK WITH 2 NO. 12-24 X 3/8" FHMS. CORNERS ARE SEALED WITH SILICONE SEALANT.

**DOOR PANEL:** VERTICAL STILES RUN THROUGH AND ARE SECURED TO THE RAILS AT THE TOP & BOTTOM WITH 1/4" THICK EXTRUDED CHANNELS. EACH CHANNEL IS FASTENED TO THE STILE & RAIL WITH 1/4-20 X 3/4" PHMS & 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED WITH A 1/2" DIA. PLUG WELD AND A 1 1/8" LONG FILLET WELD AT BOTH WEBS OF THE RAIL.

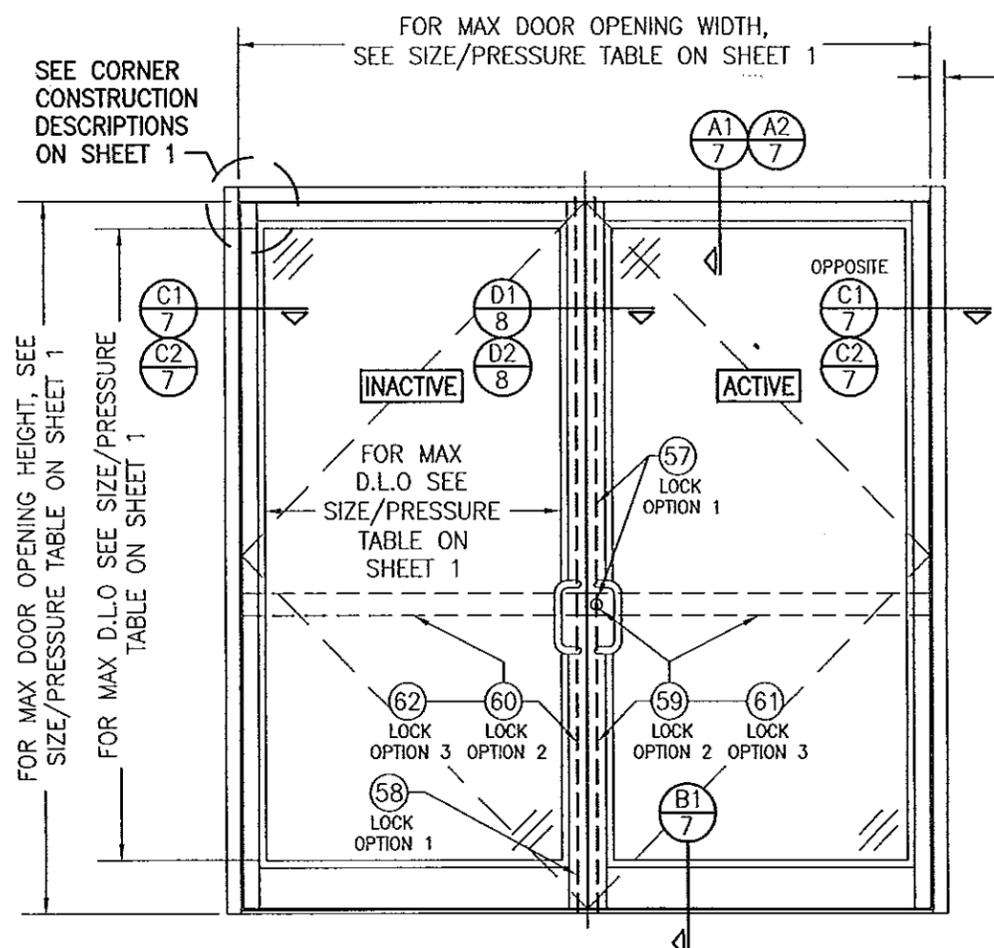
**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 14-0430.04  
 Expiration Date DEC 13, 2017  
 By Ishay K. Chaudhary  
 Miami Dade Product Control

Approved as complying with the Florida Building Code  
 Date DEC 13, 2012  
 No. 12-0223-11  
 Miami Dade Product Control  
 By Ishay K. Chaudhary



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 05/16/12
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS</b>	
MANUFACTURER <b>KAWNEER COMPANY, INC.</b> 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS <b>W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION <b>NOV 15 2012</b>	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. <b>1821</b>	REV.
SHEET NO. <b>1 OF 12</b>	

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.



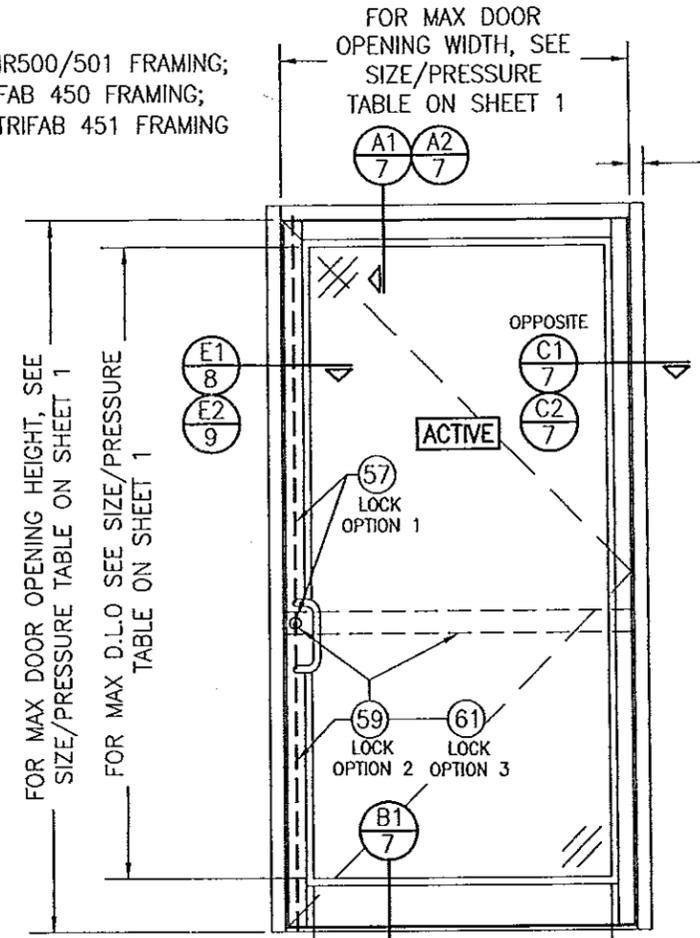
**EXTERIOR ELEVATION:  
DOUBLE DOOR WITH TRIFAB 450, 451 OR IR500/501  
FRAMING**

SCALE: 1/2" = 1'-0"

(FOR INSTALLATION REQUIREMENTS NOT SHOWN, SEE INSTALLATION ELEVATIONS ON SHEETS 4, 5 & 6)

(FOR HINGE REQUIREMENTS, SEE HINGE LOCATION DIAGRAMS ON SHEET 3)

2 1/2" WITH IR500/501 FRAMING;  
2" WITH TRIFAB 450 FRAMING;  
1 3/4" WITH TRIFAB 451 FRAMING



**EXTERIOR ELEVATION:  
SINGLE DOOR WITH TRIFAB 450, 451 OR  
IR500/501 FRAMING**

SCALE: 1/2" = 1'-0"

(FOR INSTALLATION REQUIREMENTS NOT SHOWN, SEE INSTALLATION ELEVATIONS ON SHEETS 4, 5 & 6)

(FOR HINGE REQUIREMENTS, SEE HINGE LOCATION DIAGRAMS ON SHEET 3)

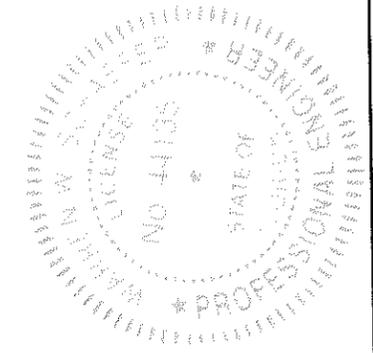
2 1/2" WITH IR500/501 FRAMING;  
2" WITH TRIFAB 450 FRAMING;  
1 3/4" WITH TRIFAB 451 FRAMING

**ALLOWABLE DESIGN PRESSURE**  
SEE SIZE/PRESSURE TABLE ON SHEET 1

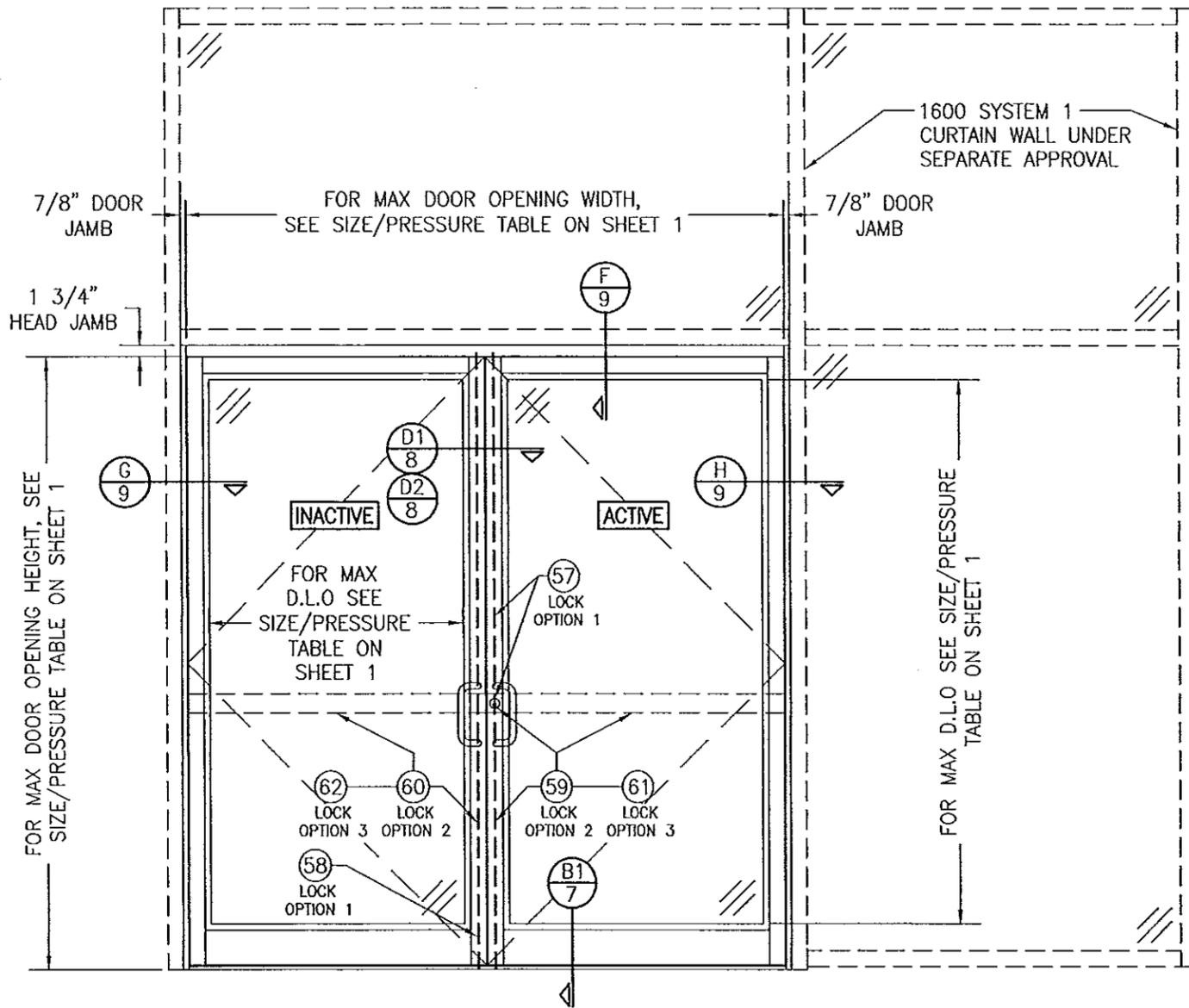
THE 450, 451 & 500/501 SUPPORT FRAMING MAY BE CONFIGURED FOR AND INSTALLED INTO A PUNCHED OPENING AS SHOWN OR BE PART OF A STORE FRONT FRAMING SYSTEM. IF PART OF A STORE FRONT FRAMING SYSTEM, THE LESSER OF THE ALLOWABLE PRESSURE SPECIFIED IN THE STORE FRONT APPROVAL AND THAT STATED HERE-IN SHALL CONTROL FOR THE OVERALL SYSTEM.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 14-0430-04  
Expiration Date 12/13/17  
By *Shang L. Li*  
Miami Dade Product Control

Approved as complying with the Florida Building Code  
Date 12/13/12  
NOA# 12-0823.11  
Miami Dade Product Control  
By *Shang L. Li*



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 05/16/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS			
CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: NOV 15 2012		WARREN W. SCHAEFFER, P.E. P.E. NO. 44135	
DRAWING NO. 1821		REV.	
SHEET NO. 2		OF 12	



**EXTERIOR ELEVATION:  
DOUBLE DOOR WITHIN 1600 SYSTEM 1 CURTAIN WALL**

SCALE: 1/2" = 1'-0"

(FOR HINGE REQUIREMENTS, SEE HINGE LOCATION DIAGRAMS ON THIS SHEET.)

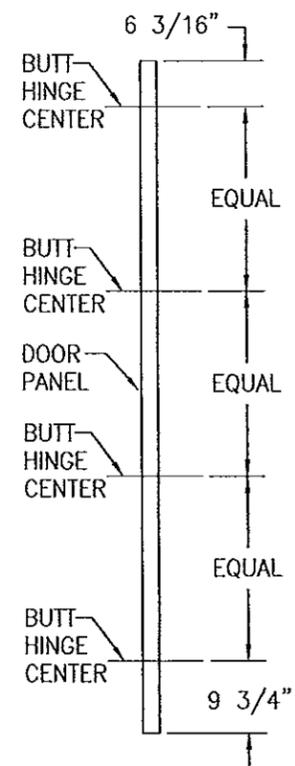
**ALLOWABLE DESIGN PRESSURE**  
SEE SIZE/PRESSURE TABLE ON SHEET 1

**NOTES:**

1. FOR DOOR INSTALLATION CONDITIONS NOT SHOWN, SEE INSTALLATION ELEVATIONS ON SHEET 4, 5 & 6.
2. DOUBLE DOOR SHOWN, SINGLE DOOR CONDITION ALSO APPLIES.
3. FOR CURTAIN WALL FRAMING REQUIREMENTS, SEE RESPECTIVE CURTAIN WALL APPROVAL.
4. ALTHOUGH DOOR SECTION IS SHOWN AT A SIDE JAMB, THE DOOR MAY BE LOCATED IN ANY BAY OF THE CURTAIN WALL.
5. THE LESSER ALLOWABLE PRESSURE FOR THE DOOR AND THAT FOR THE 1600 WALL SYSTEM SHALL CONTROL AS THE ALLOWABLE PRESSURE ON THE ASSEMBLY.

**BUTT HINGE LOCATION DIAGRAM**

SCALE: 1/2" = 1'-0"



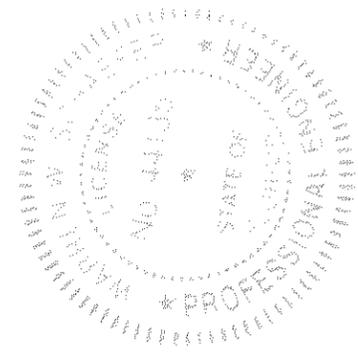
**PIVOT HINGE LOCATION DIAGRAM**

SCALE: 1/2" = 1'-0"

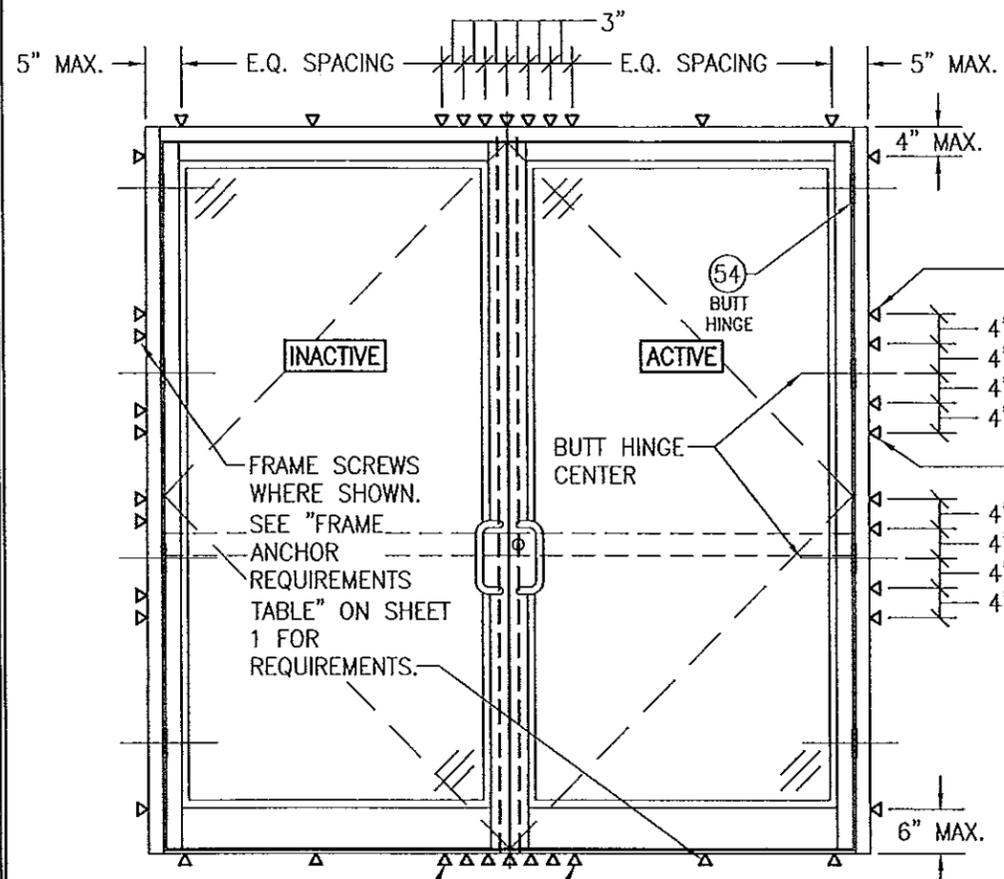
"X" = DOOR OPENING HEIGHT / (NUMBER OF INTERMEDIATE HINGES + 1)  
"Y" = "X" - 13/16"

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 14-0430-04  
Expiration Date 12/13/17  
By *Ishag I. Chaudhry*  
Miami Dade Product Control

Approved as complying with the Florida Building Code  
Date 12/13/12  
NOA# 12-0823-11  
Miami Dade Product Control  
By *Ishag I. Chaudhry*



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 05/16/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS			
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: NOV 15 2012		WARREN W. SCHAEFER, P.E. P.E. NO. 44133	
DRAWING NO. 1821		REV.	
SHEET NO. 3		OF 12	



NOTE: WHEN JOB REQUIRED PRESSURE IS +/-70 PSF OR LESS, THESE OUTER MOST SCREWS AT EACH HINGE LOCATION ARE NOT REQUIRED

NOTE: WHEN JOB REQUIRED PRESSURE IS +/-70 PSF OR LESS, SCREW SPACING MAY BE INCREASED TO 17\"/>

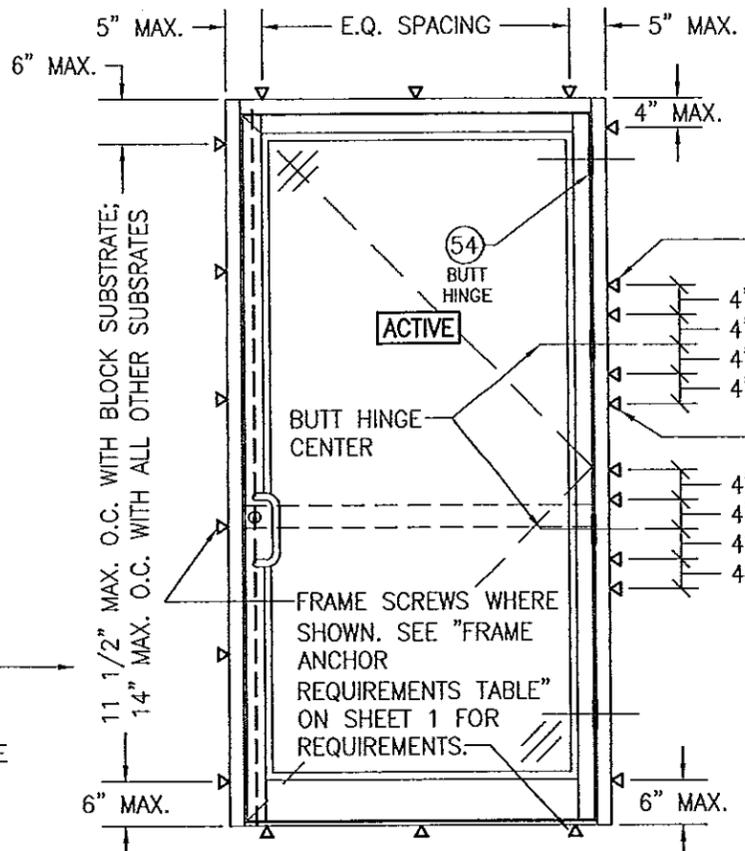
THESE 2 FRAME ANCHORS ARE ONLY REQUIRED WHEN DESIGN PRESSURE EXCEEDS +/-70 PSF (TYP. HEAD AND SILL)

**EXTERIOR ELEVATION:  
INSTALLATION REQUIREMENTS FOR DOUBLE DOORS  
WITH BUTT HINGES**

SCALE: 1/2" = 1'-0"

(FOR DOOR DETAIL NOT SHOWN, SEE ELEVATIONS ON SHEETS 2 & 3)

THE CONDITIONS SHOWN IN THESE ELEVATIONS CONSIDER THE PERIMETER FRAMING TO BE INSTALLED TO A PUNCHED WALL OPENING OR CURTAIN WALL SYSTEM OPENING. WHEN DOOR PANELS ARE INSTALLED INTO A 450, 451 OR 500/501 STOREFRONT SYSTEM (NOT A PUNCHED OPENING), THE INSTALLATION REQUIREMENTS OF THE STORE FRONT APPROVAL SHALL CONTROL WITH THE DOOR PANELS BEING HINGED AND LOCKED TO THE FRAMING AS SHOWN HERE-IN.



NOTE: WHEN JOB REQUIRED PRESSURE IS +/-70 PSF OR LESS, THESE OUTER MOST SCREWS AT EACH HINGE LOCATION ARE NOT REQUIRED

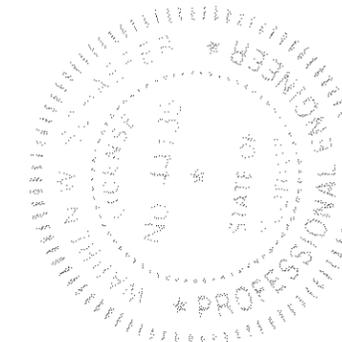
**EXTERIOR ELEVATION:  
INSTALLATION REQUIREMENTS FOR SINGLE  
DOORS WITH BUTT HINGES**

SCALE: 1/2" = 1'-0"

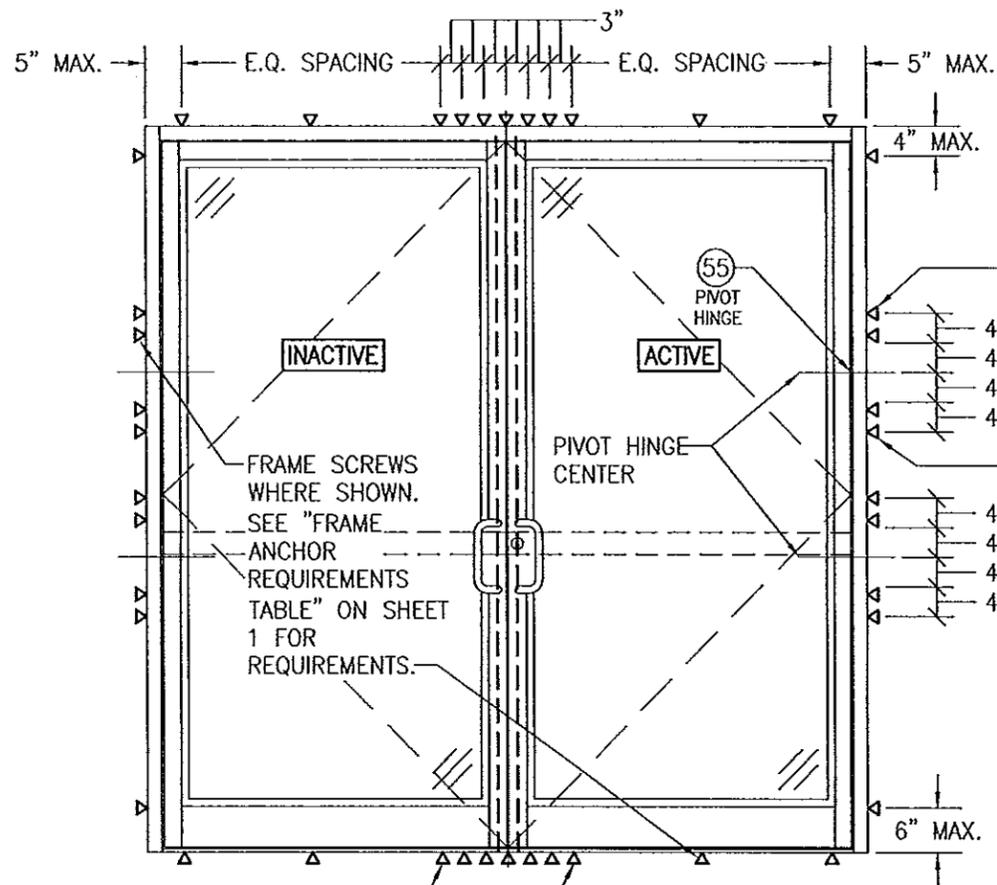
(FOR DOOR DETAIL NOT SHOWN, SEE ELEVATIONS ON SHEETS 2 & 3)

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No. 14-0430-04  
Expiration Date 12/13/17  
By *Isaac J. Chanda*  
Miami Dade Product Control

Approved as complying with the Florida Building Code  
Date 12/13/12  
NOA# 12-0823-11  
Miami Dade Product Control  
By *Isaac J. Chanda*



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 05/16/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		P.E. NO. 44135	
CERTIFICATION: NOV 15 2012		DRAWING NO. 1821	
		SHEET NO. 4 OF 12	



THESE 2 FRAME ANCHORS ARE ONLY REQUIRED WHEN DESIGN PRESSURE EXCEEDS +/-70 PSF (TYP. HEAD AND SILL)

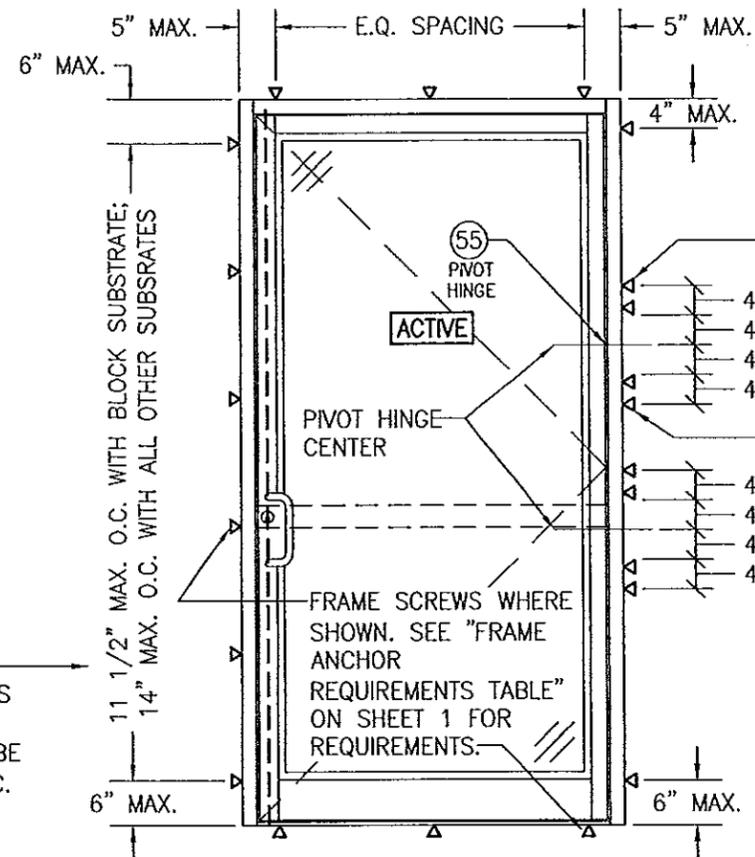
**EXTERIOR ELEVATION;  
INSTALLATION REQUIREMENTS FOR DOUBLE DOORS  
WITH PIVOT HINGES**

SCALE: 1/2" = 1'-0"

(FOR DOOR DETAIL NOT SHOWN, SEE ELEVATIONS ON SHEETS 2 & 3)

NOTE: WHEN JOB REQUIRED PRESSURE IS +/-70 PSF OR LESS, THESE OUTER MOST SCREWS AT EACH HINGE LOCATION ARE NOT REQUIRED

NOTE: WHEN JOB REQUIRED PRESSURE IS +/-70 PSF OR LESS, SCREW SPACING MAY BE INCREASED TO 17" O.C. WITH ALL SUBSTRATES



**EXTERIOR ELEVATION;  
INSTALLATION REQUIREMENTS FOR SINGLE  
DOORS WITH PIVOT HINGES**

SCALE: 1/2" = 1'-0"

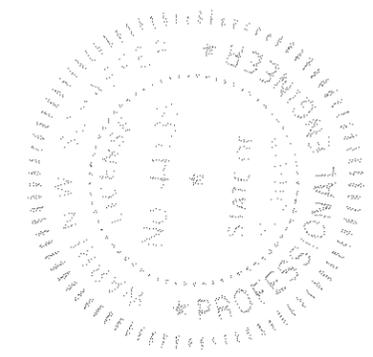
(FOR DOOR DETAIL NOT SHOWN, SEE ELEVATIONS ON SHEETS 2 & 3)

NOTE: WHEN JOB REQUIRED PRESSURE IS +/-70 PSF OR LESS, THESE OUTER MOST SCREWS AT EACH HINGE LOCATION ARE NOT REQUIRED

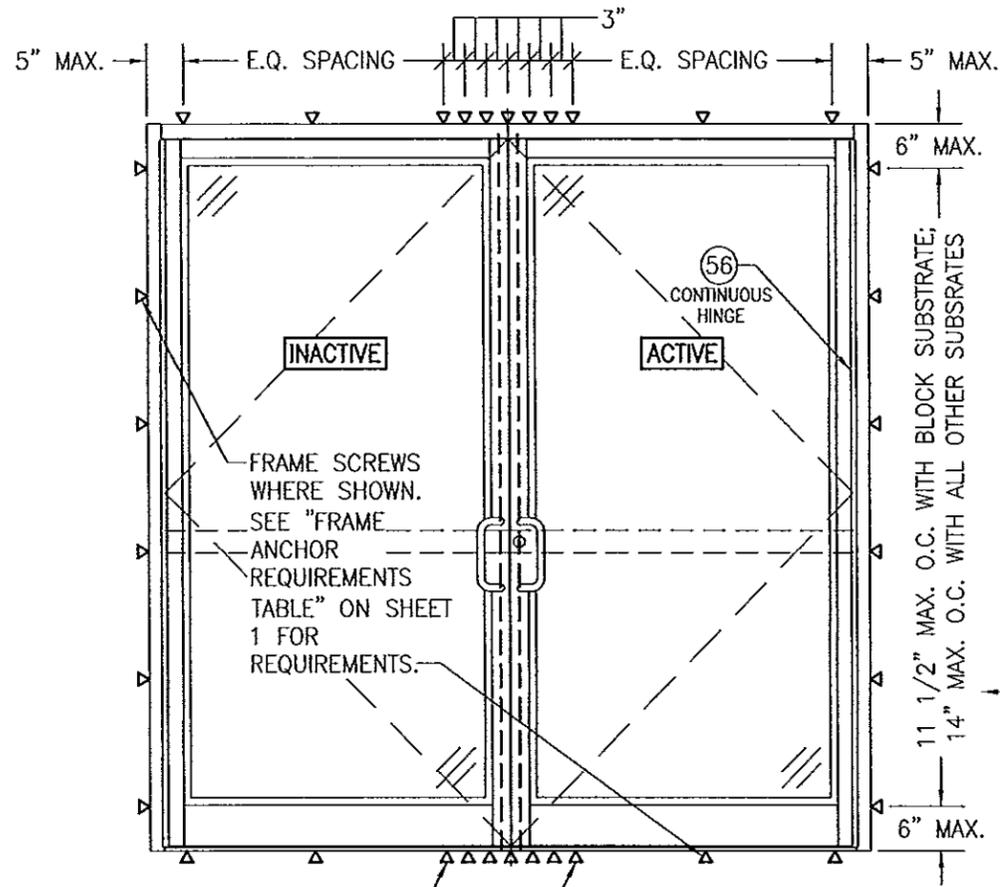
**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 14-0430.04  
Expiration Date 12/13/17  
By *Shang L. Chanda*  
Miami Dade Product Control

Approved as complying with the Florida Building Code  
Date 12/13/12  
NOA# 12-0823.11  
Miami Dade Product Control  
By *Shang L. Chanda*

THE CONDITIONS SHOWN IN THESE ELEVATIONS CONSIDER THE PERIMETER FRAMING TO BE INSTALLED TO A PUNCHED WALL OPENING OR CURTAIN WALL SYSTEM OPENING. WHEN DOOR PANELS ARE INSTALLED INTO A 450, 451 OR 500/501 STOREFRONT SYSTEM (NOT A PUNCHED OPENING), THE INSTALLATION REQUIREMENTS OF THE STORE FRONT APPROVAL SHALL CONTROL WITH THE DOOR PANELS BEING HINGED AND LOCKED TO THE FRAMING AS SHOWN HERE-IN.



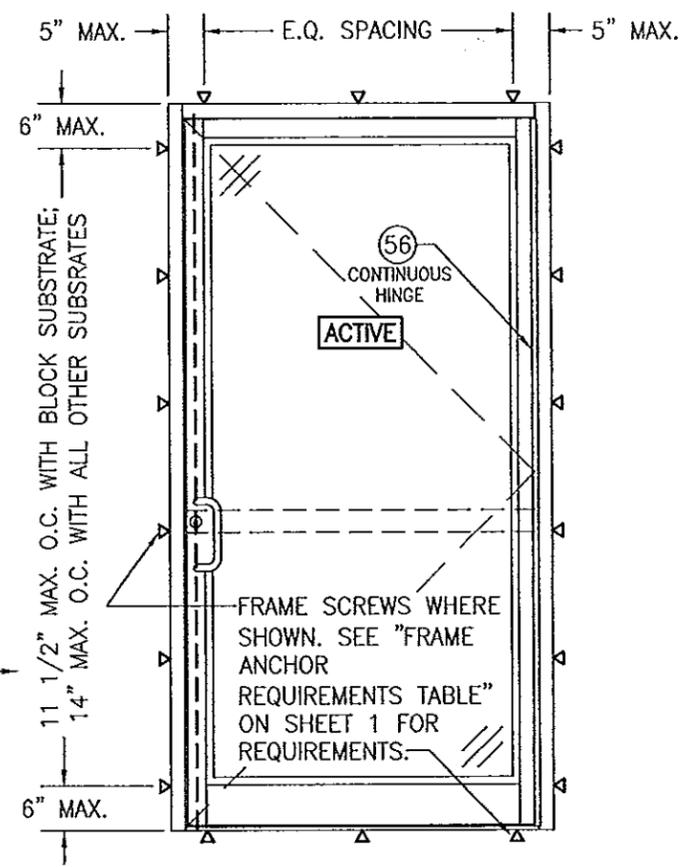
DRAWN BY: W.R.U.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 05/16/12
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-5424	MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555
CERTIFICATION: NOV 15 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44735	DRAWING NO. 1821 SHEET NO. 5 OF 12



THESE 2 FRAME ANCHORS ARE ONLY REQUIRED WHEN DESIGN PRESSURE EXCEEDS +/-70 PSF (TYP. HEAD AND SILL)

**EXTERIOR ELEVATION:  
INSTALLATION REQUIREMENTS FOR DOUBLE DOORS  
WITH CONTINUOUS HINGES**  
SCALE: 1/2" = 1'-0"  
(FOR DOOR DETAIL NOT SHOWN, SEE ELEVATIONS ON SHEETS 2 & 3)

NOTE: WHEN JOB REQUIRED PRESSURE IS +/-70 PSF OR LESS, SCREW SPACING MAY BE INCREASED TO 17" O.C. WITH ALL SUBSTRATES

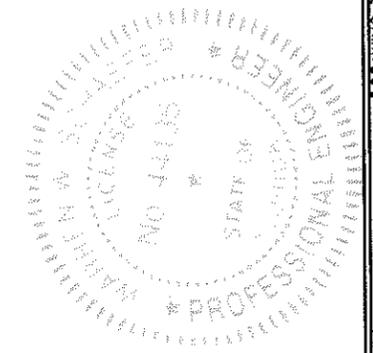


**EXTERIOR ELEVATION:  
INSTALLATION REQUIREMENTS FOR SINGLE  
DOORS WITH CONTINUOUS HINGE**  
SCALE: 1/2" = 1'-0"  
(FOR DOOR DETAIL NOT SHOWN, SEE ELEVATIONS ON SHEETS 2 & 3)

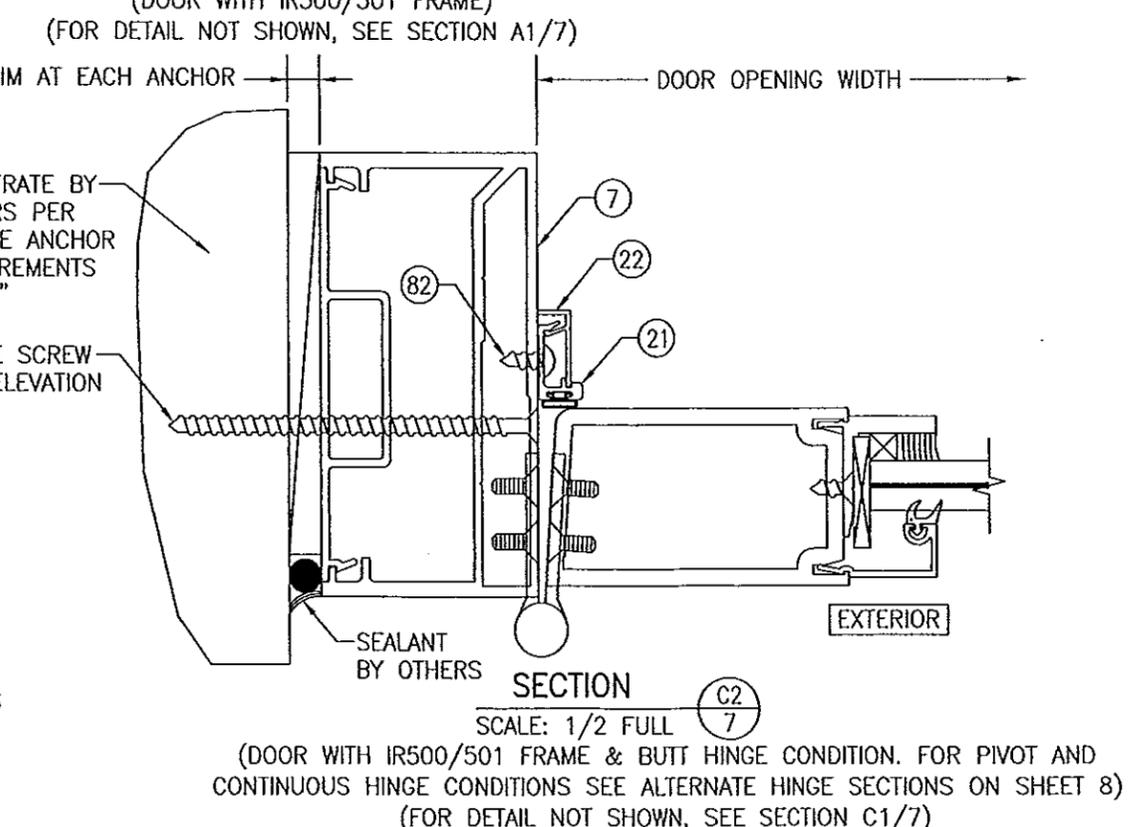
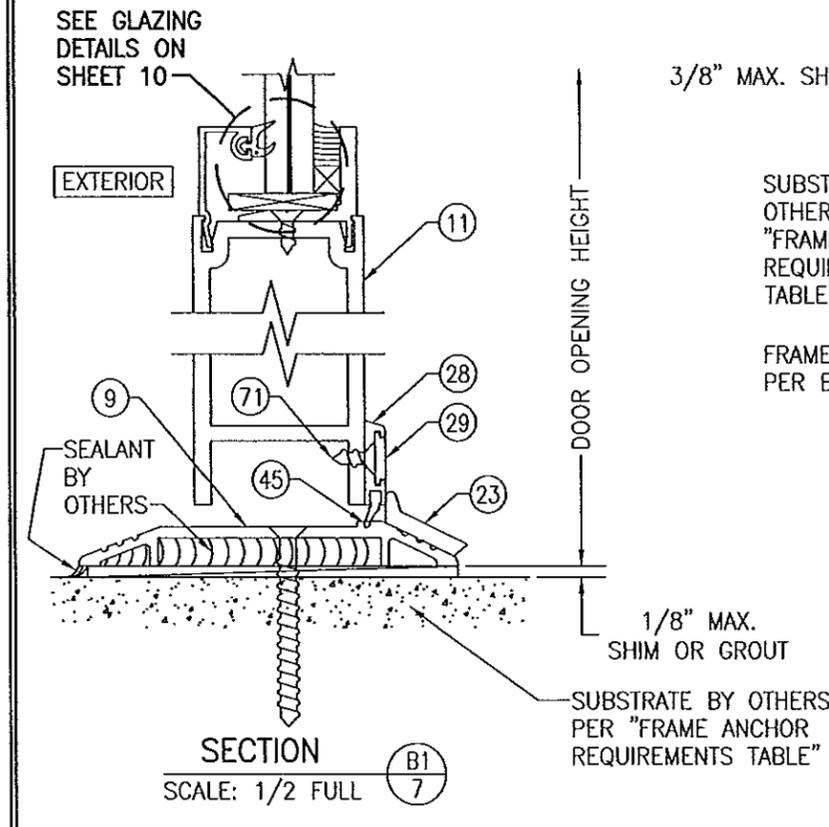
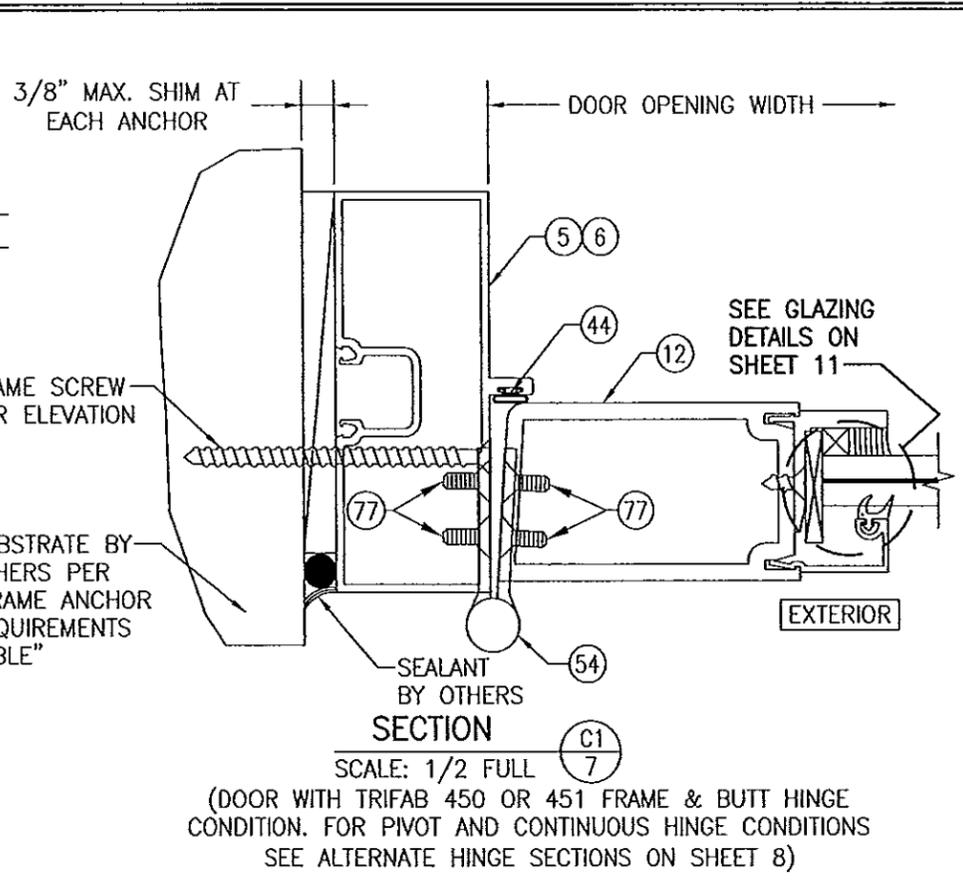
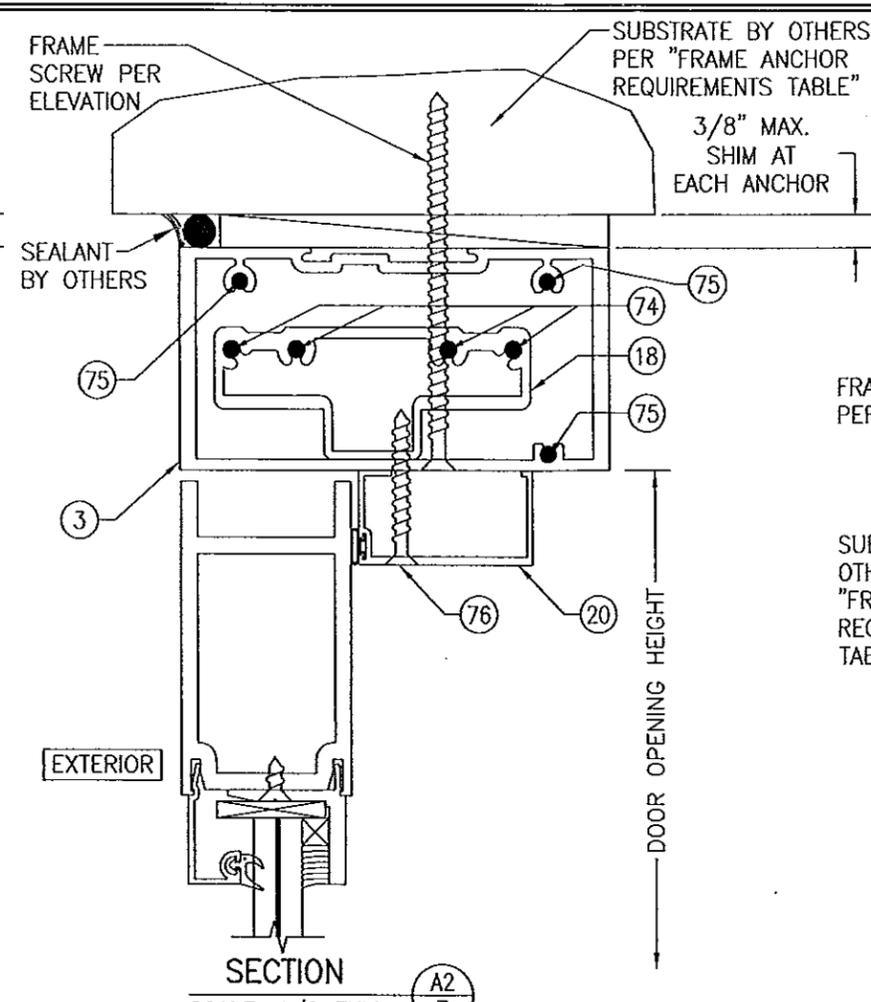
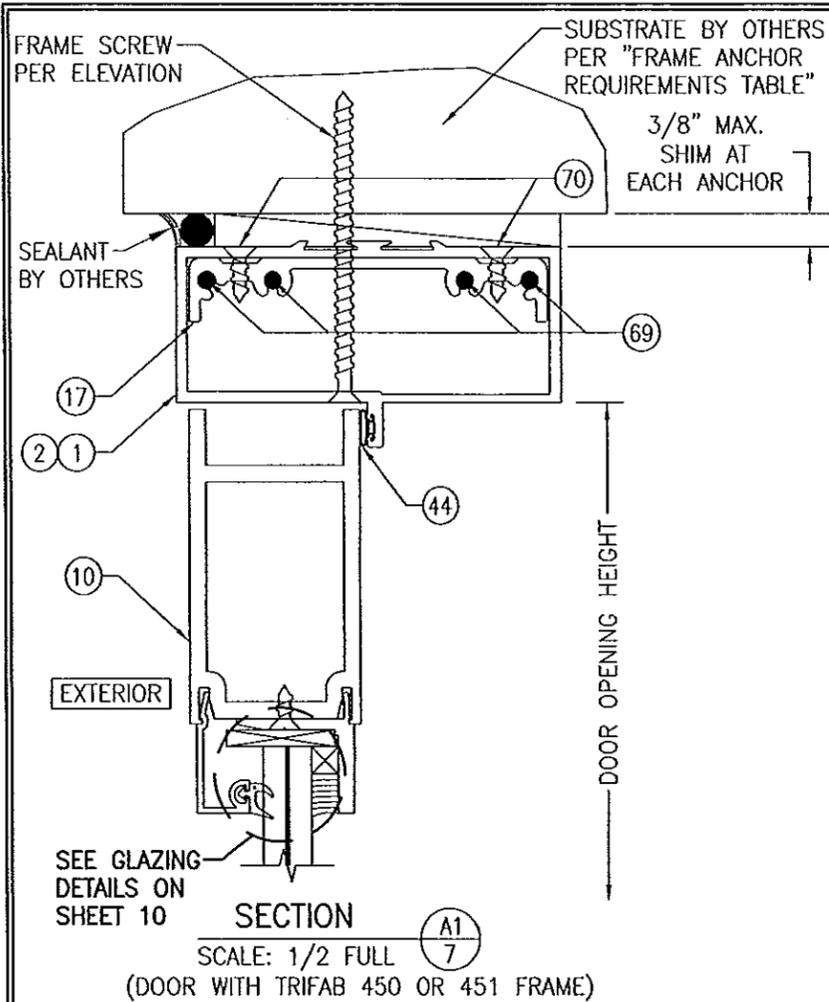
THE CONDITIONS SHOWN IN THESE ELEVATIONS CONSIDER THE PERIMETER FRAMING TO BE INSTALLED TO A PUNCHED WALL OPENING OR CURTAIN WALL SYSTEM OPENING. WHEN DOOR PANELS ARE INSTALLED INTO A 450, 451 OR 500/501 STOREFRONT SYSTEM (NOT A PUNCHED OPENING), THE INSTALLATION REQUIREMENTS OF THE STORE FRONT APPROVAL SHALL CONTROL WITH THE DOOR PANELS BEING HINGED AND LOCKED TO THE FRAMING AS SHOWN HERE-IN.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 14-0430.04  
Expiration Date 12/13/17  
By *Isaac L. Chant*  
Miami Dade Product Control

Approved as complying with the Florida Building Code  
Date 12/13/12  
NOA# 12-0823.11  
Miami Dade Product Control  
By *Isaac L. Chant*

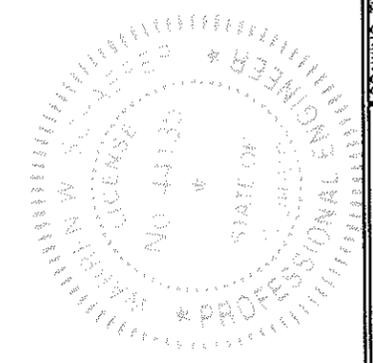


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 05/18/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION NOV 15 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1821		REV.	
SHEET NO. 6		OF 12	

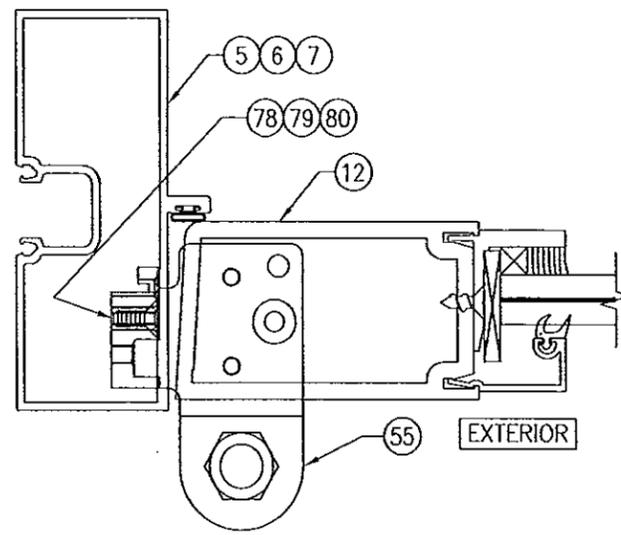


**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 14-0430.04  
 Expiration Date 12/13/17  
 By Ishak Chand  
 Miami Date Product Control

Approved as complying with the  
 Florida Building Code  
 Date 12/13/17  
 NOAA 12-0823-11  
 Miami Date Product Control  
 By Wesley J. Chand



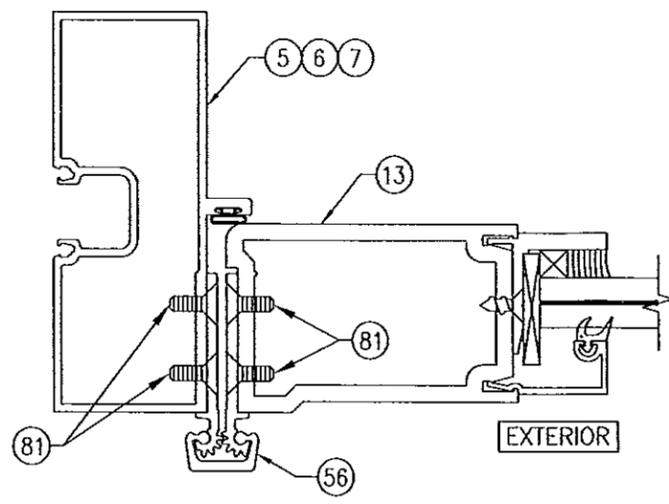
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/18/12	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS			
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION NOV 15 2012		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1821		REV.	
SHEET NO. 7 OF 12			



**ALTERNATE HINGE SECTION**

(PIVOT HINGE CONDITION)

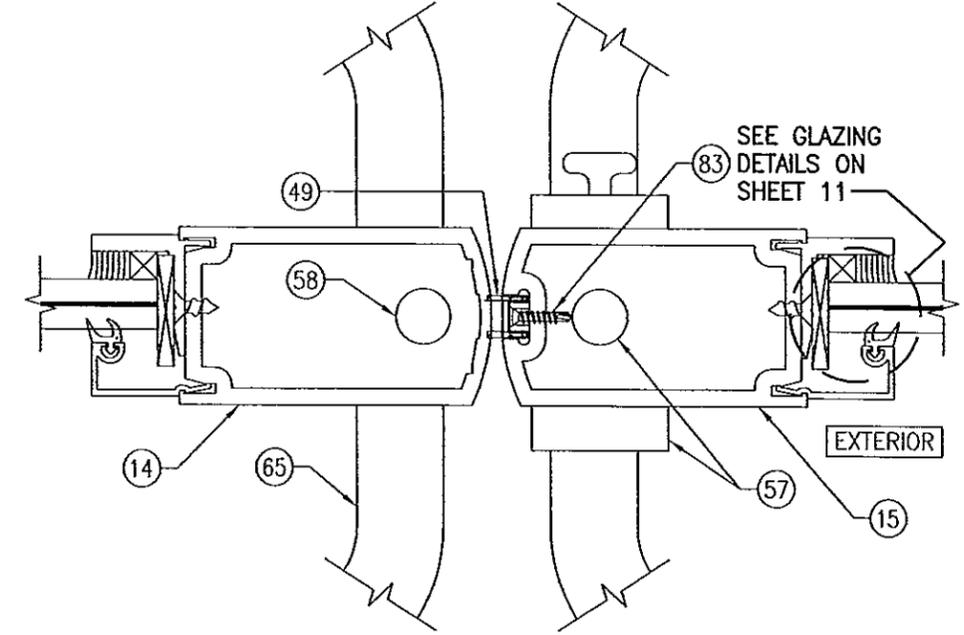
(FOR DETAIL AND INSTALLATION NOT SHOWN, SEE SECTION C1/7)



**ALTERNATE HINGE SECTION**

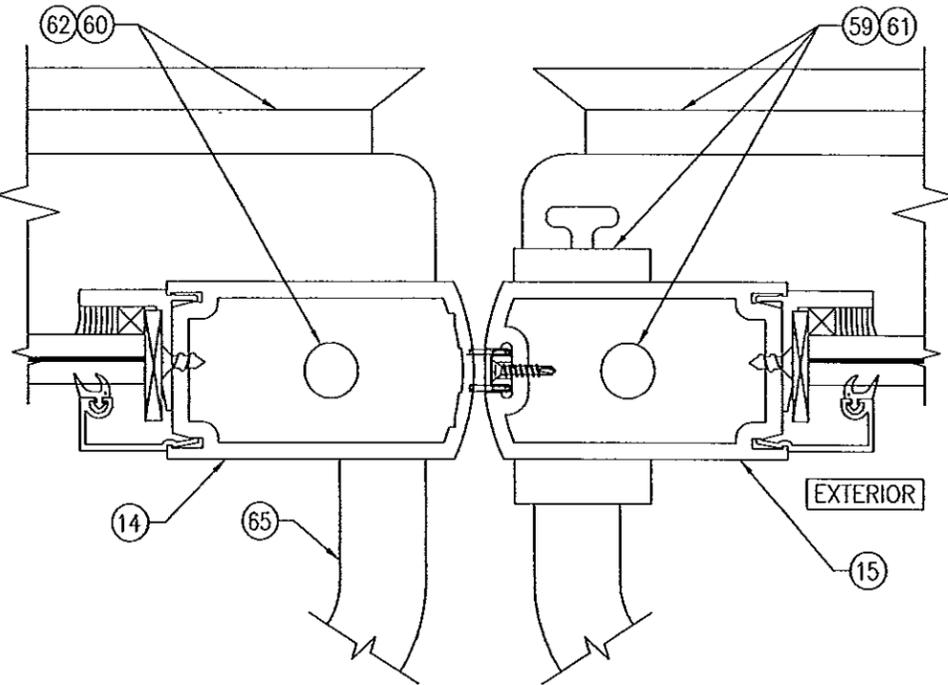
(CONTINUOUS HINGE CONDITION)

(FOR DETAIL AND INSTALLATION NOT SHOWN, SEE SECTION C1/7)



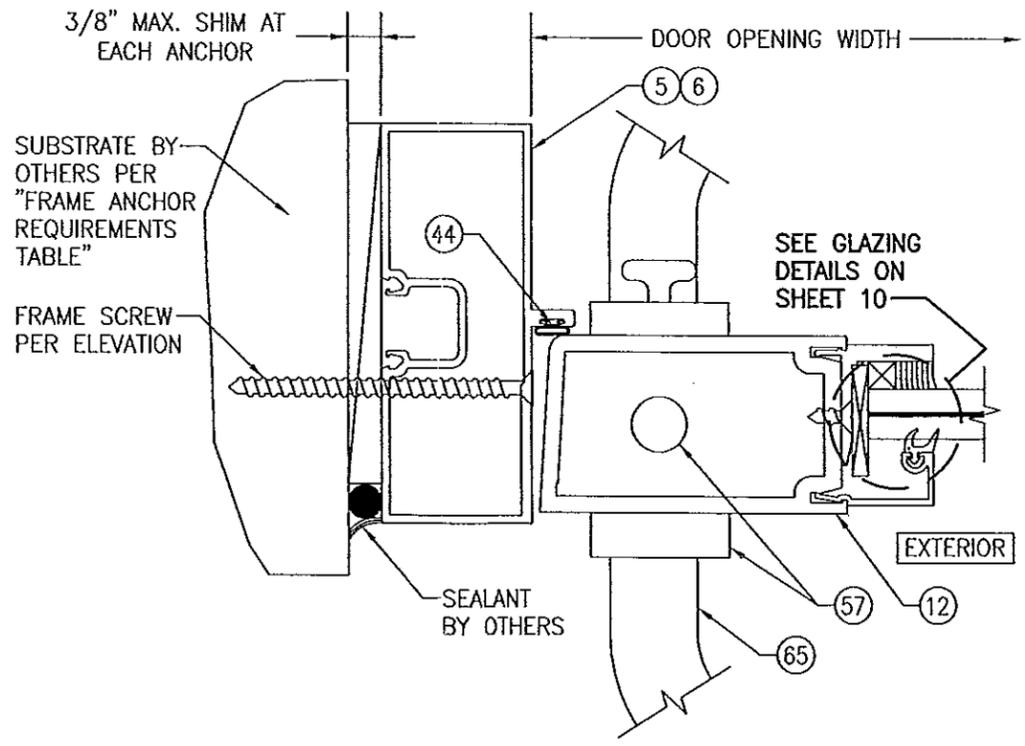
**SECTION**

SCALE: 1/2 FULL (D1/8)  
(DOOR WITH LOCK OPTION 1)



**SECTION**

SCALE: 1/2 FULL (D2/8)  
(DOOR WITH LOCK OPTIONS 2 & 3)  
(FOR DETAIL NOT SHOWN, SEE SECTION D1/8)

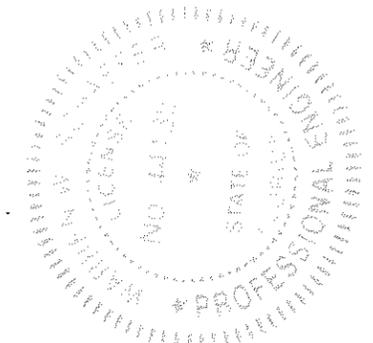


**SECTION**

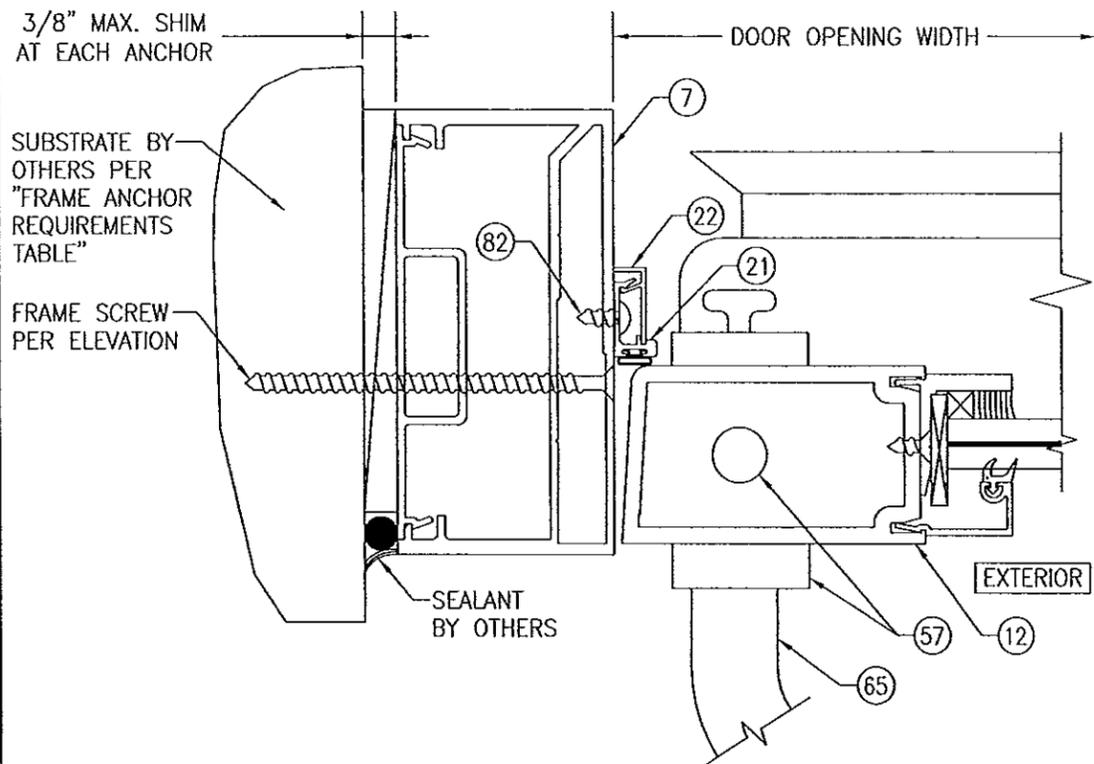
SCALE: 1/2 FULL (E1/8)  
(DOOR WITH TRIFAB 450 OR 451 FRAME & LOCK OPTION 1. FOR LOCK OPTIONS 2 & 3 SEE ALTERNATE LOCK SECTION ON SHEET 9)

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 14-0430.04  
Expiration Date 12/13/17  
By *Ishag L. Chant*  
Miami Dade Product Control

Approved as complying with the Florida Building Code  
Date 12/13/12  
NOA# 12-0823-11  
Miami Dade Product Control  
By *Ishag L. Chant*



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/16/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: NOV 15 2012		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1821		REV.	
SHEET NO. 8		OF 12	

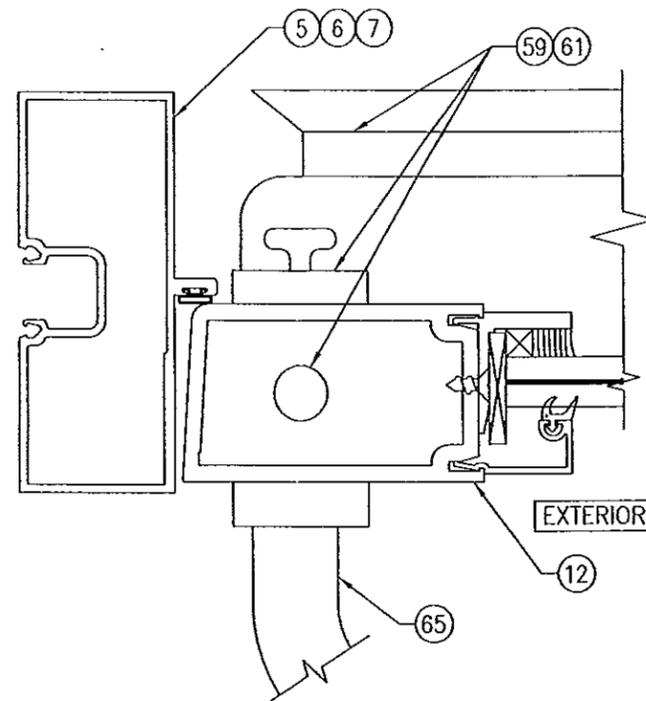


**SECTION**

(E2/9)

SCALE: 1/2 FULL

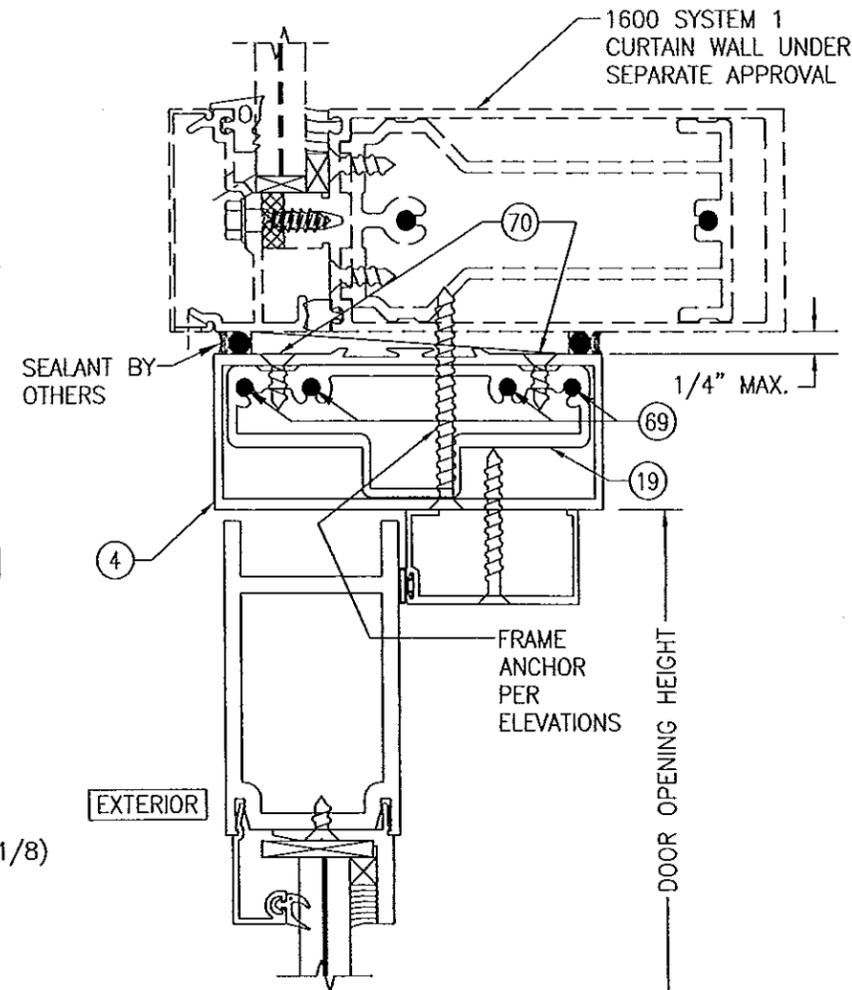
(DOOR WITH IR500/501 FRAME & LOCK OPTION 1. FOR LOCK OPTIONS 2 & 3 SEE ALTERNATE LOCK SECTION ON THIS SHEET)  
(FOR DETAIL NOT SHOWN, SEE SECTION E1/8)



**ALTERNATE LOCK SECTION**

(LOCK OPTIONS 2 & 3)

(FOR DETAIL AND INSTALLATION NOT SHOWN, SEE SECTION E1/8)

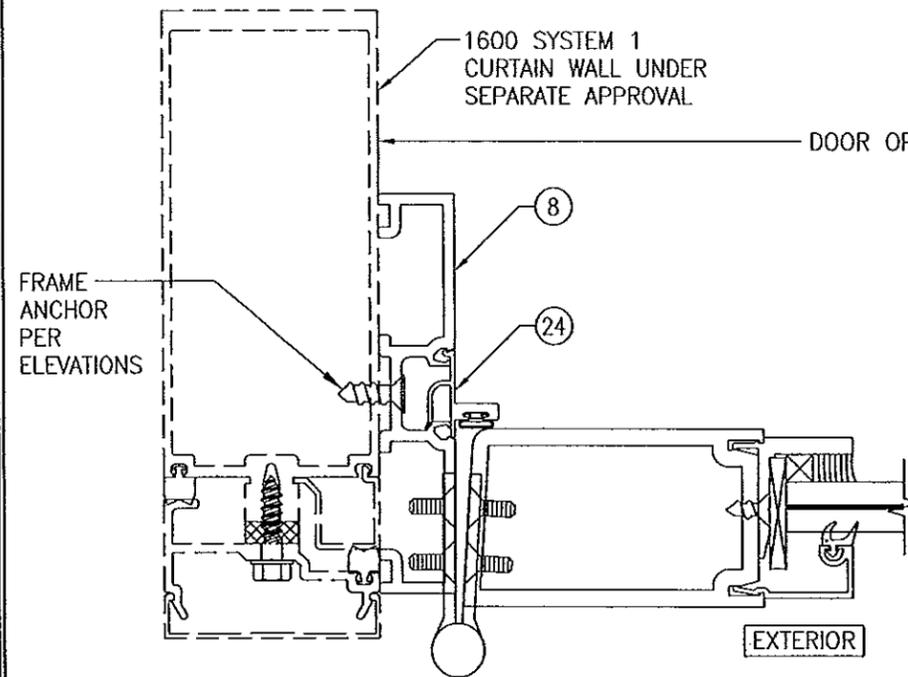


**SECTION**

(F/9)

SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

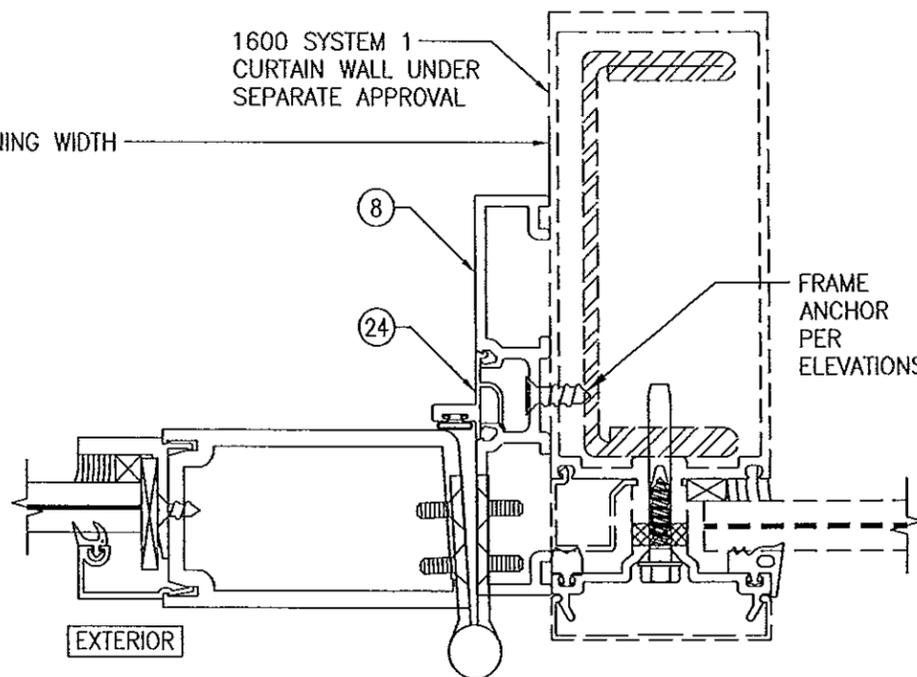


**SECTION**

(G/9)

SCALE: 1/2 FULL

(BUTT HINGE CONDITION SHOWN. PIVOT AND CONTINUOUS HINGE CONDITIONS ALSO APPLY)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**SECTION**

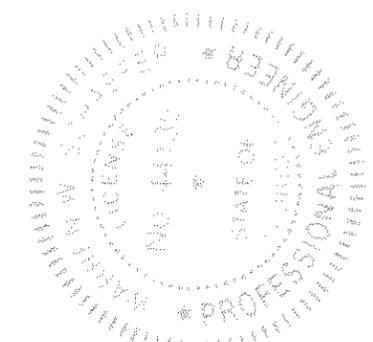
(H/9)

SCALE: 1/2 FULL

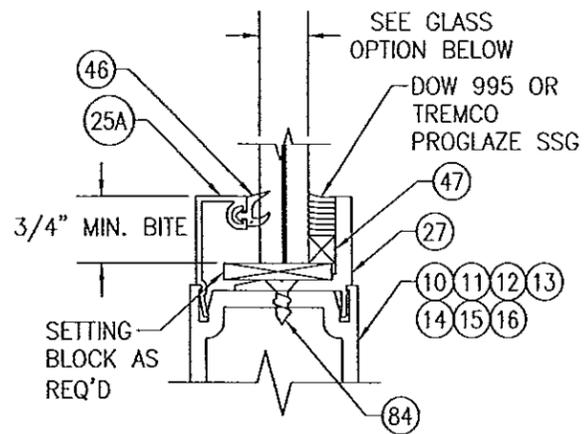
(BUTT HINGE CONDITION SHOWN. PIVOT AND CONTINUOUS HINGE CONDITIONS ALSO APPLY)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 14-0430-04  
Expiration Date 12/13/17  
By Isaac L. Chando  
Miami Dade Product Control

Approved as complying with the Florida Building Code  
Date 12/13/12  
NOA# 12-0923-11  
Miami Dade Product Control  
By Isaac L. Chando

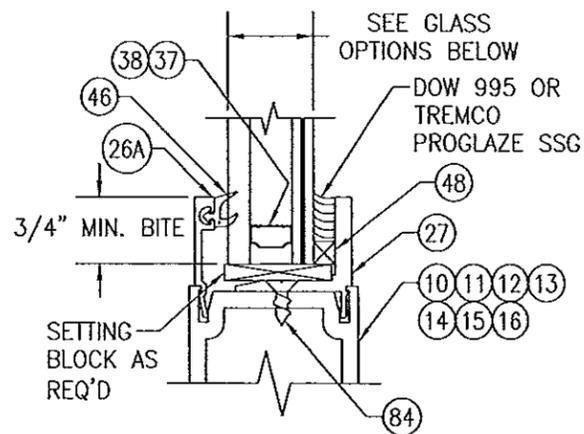


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 05/16/12
NO.	REVISION DESCRIPTION
BY	DATE
DRAWING TITLE IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION	NOV 15 2012
DRAWING NO. 1821	REV.
SHEET NO. 9	OF 12



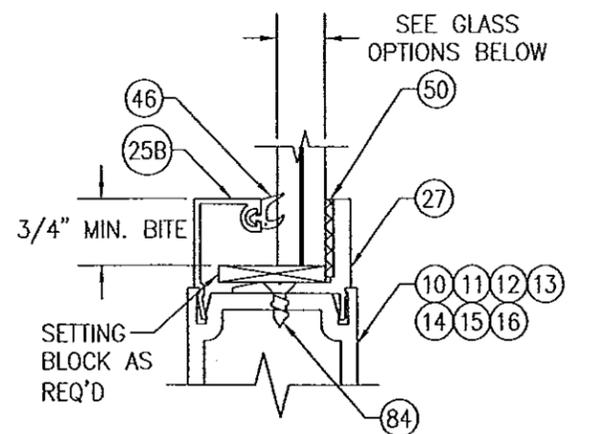
TYPICAL MONOLITHIC GLAZING DETAIL

**GLASS OPTION: (WET GLAZED)**  
**OPTION 1:** 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" DUPONT SG/1/4" HT. ST.)



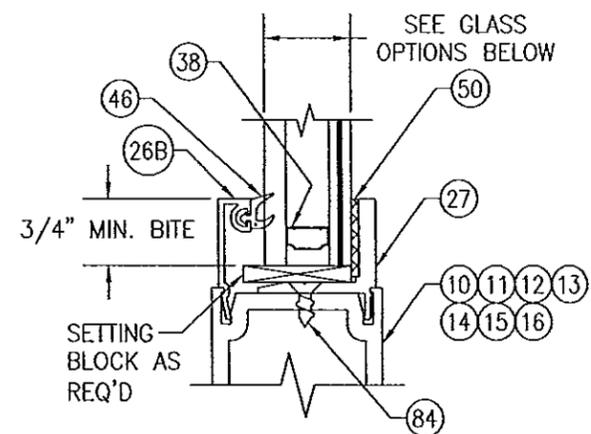
TYPICAL I.G. GLAZING DETAIL

**GLASS OPTIONS: (WET GLAZED)**  
**OPTION 2:** 1" THICK I.G. LAMINATED GLASS (1/4" TEMP EXTERIOR; 1/2" AIR SPACE; 1/8" HT. ST./0.090" DUPONT SG/1/8" HT. ST. INTERIOR)  
**OPTION 5:** 1" THICK I.G. LAMINATED GLASS (1/4" TEMP EXTERIOR; 1/4" AIR SPACE; 3/16" HT. ST./0.180" DUPONT SG/3/16" HT. ST. INTERIOR)



TYPICAL MONOLITHIC GLAZING DETAIL

**GLASS OPTIONS: (TAPE GLAZED)**  
**OPTION 3:** 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" DUPONT BUTACITE PVB/1/4" HT. ST.)

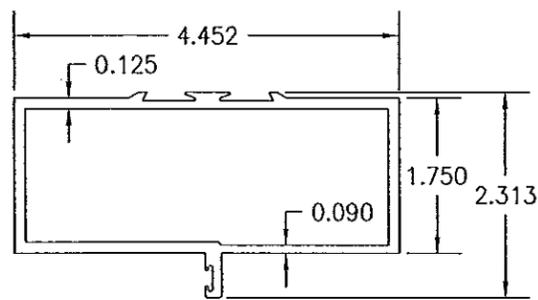


TYPICAL I.G. GLAZING DETAIL

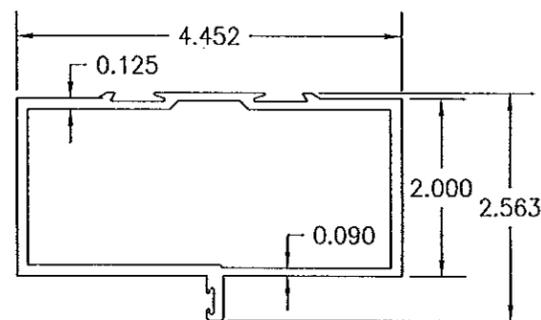
**GLASS OPTIONS: (TAPE GLAZED)**  
**OPTION 4:** 1" THICK I.G. LAMINATED GLASS (1/4" TEMP EXTERIOR; 1/2" AIR SPACE; 1/8" HT. ST./0.090" DUPONT BUTACITE PVB/1/8" HT. ST. INTERIOR)

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 14-0430.04  
 Expiration Date 12/13/17  
 By *Isaac L. Chaudhry*  
 Miami Dade Product Control

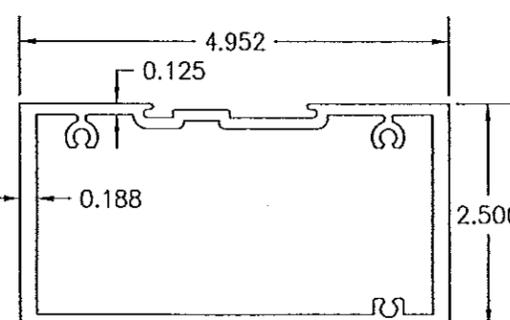
Approved as complying with the Florida Building Code  
 Date 12/13/12  
 NOA# 12-0823.11  
 Miami Dade Product Control  
 By *Isaac L. Chaudhry*



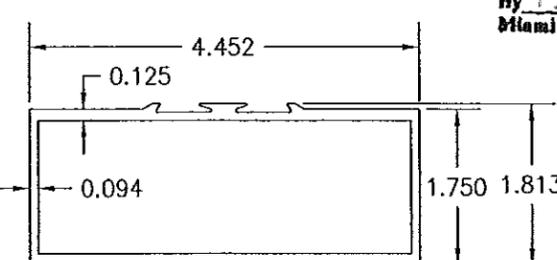
① TRIFAB 450 HEAD FRAMING



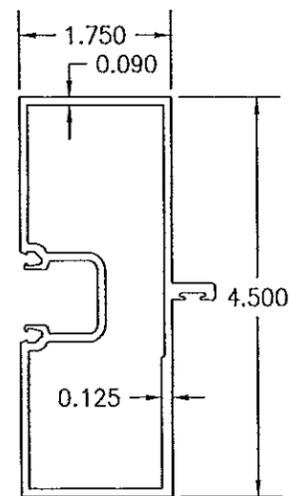
TRIFAB 451 HEAD FRAMING ②



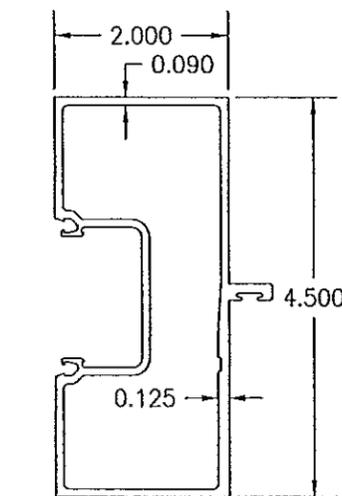
③ IR500/501 HEAD FRAMING



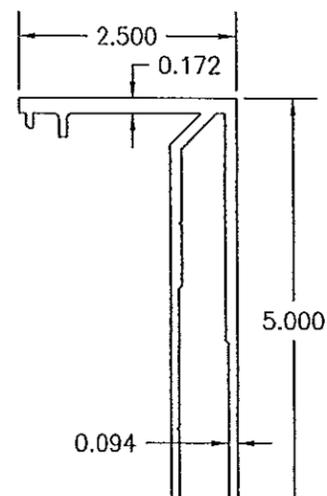
④ HEAD FRAME WITHIN CURTAIN WALL



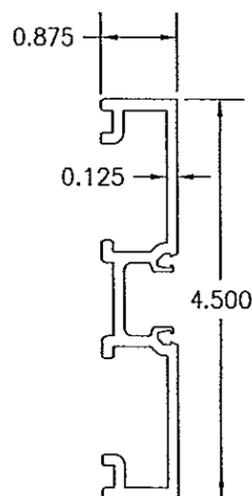
⑤ TRIFAB 450 JAMB FRAMING



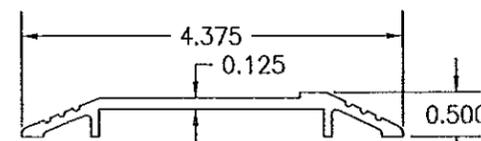
⑥ TRIFAB 451 JAMB FRAMING



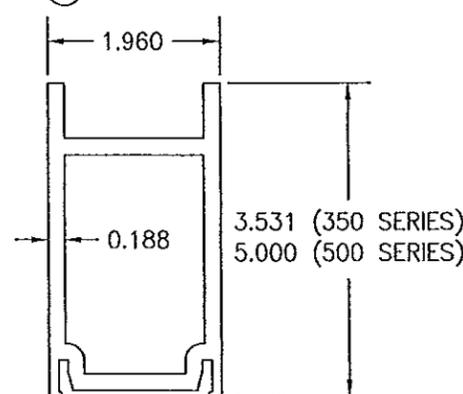
⑦ IR500/501 JAMB FRAMING



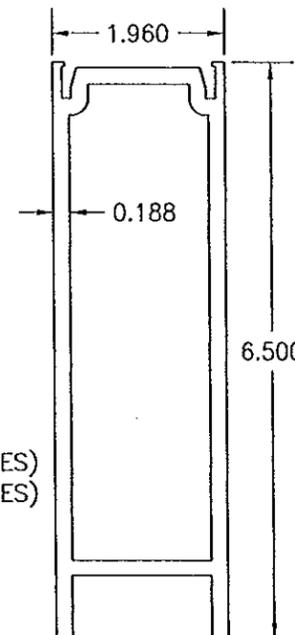
⑧ DOOR ADAPTOR WITHIN CURTAIN WALL SYSTEM



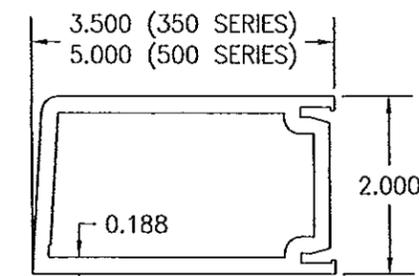
⑨ THRESHOLD



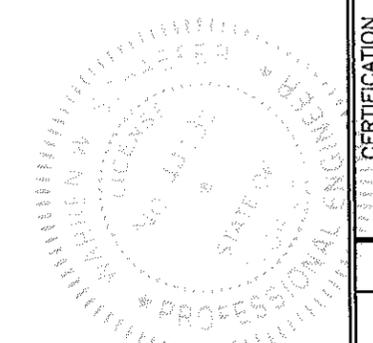
⑩ TOP RAIL



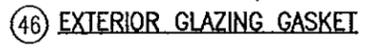
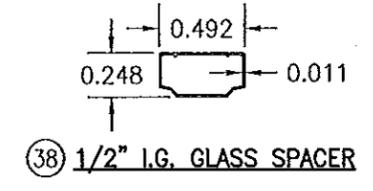
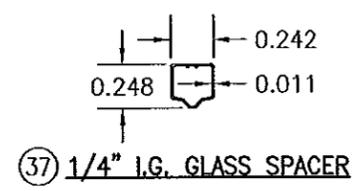
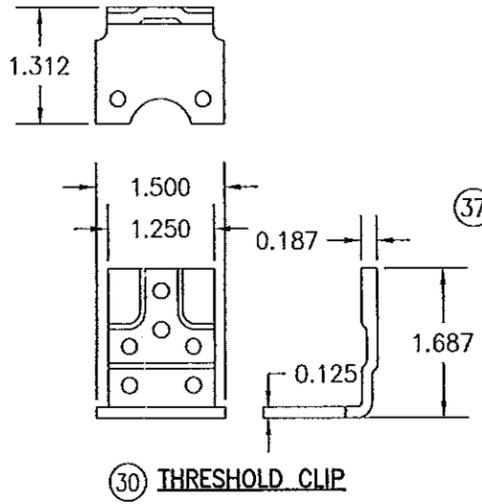
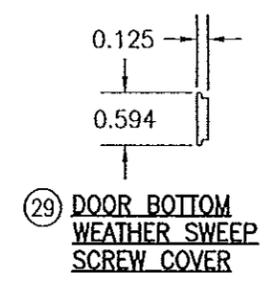
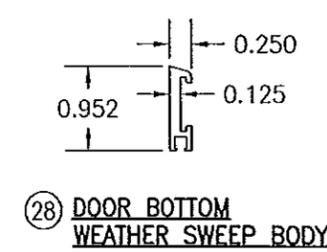
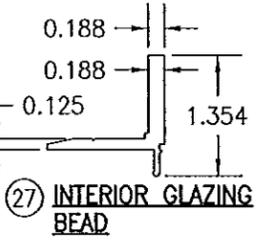
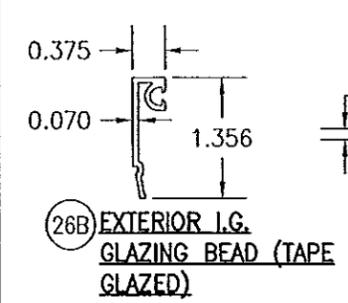
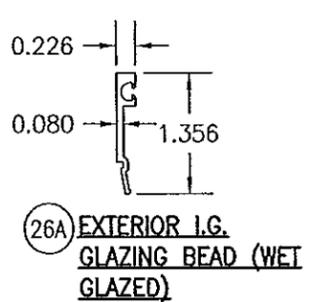
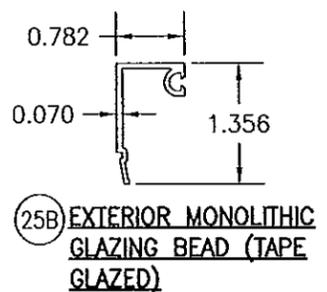
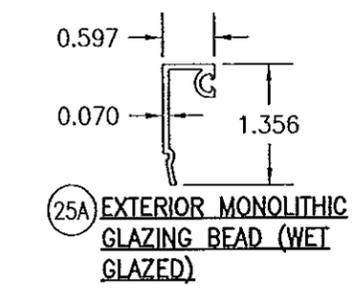
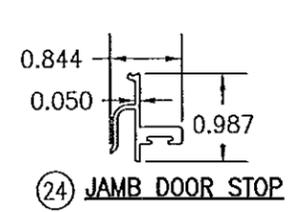
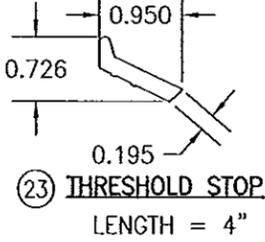
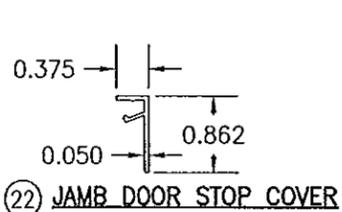
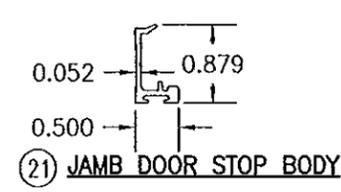
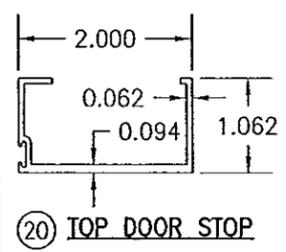
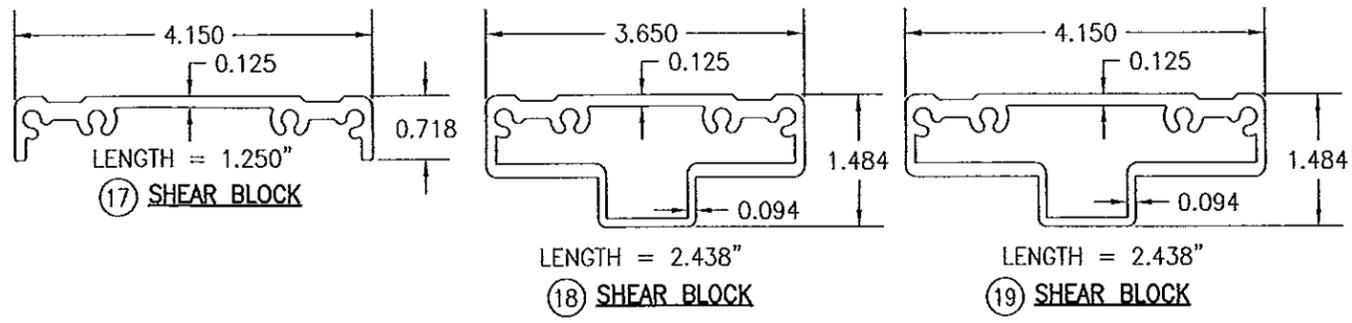
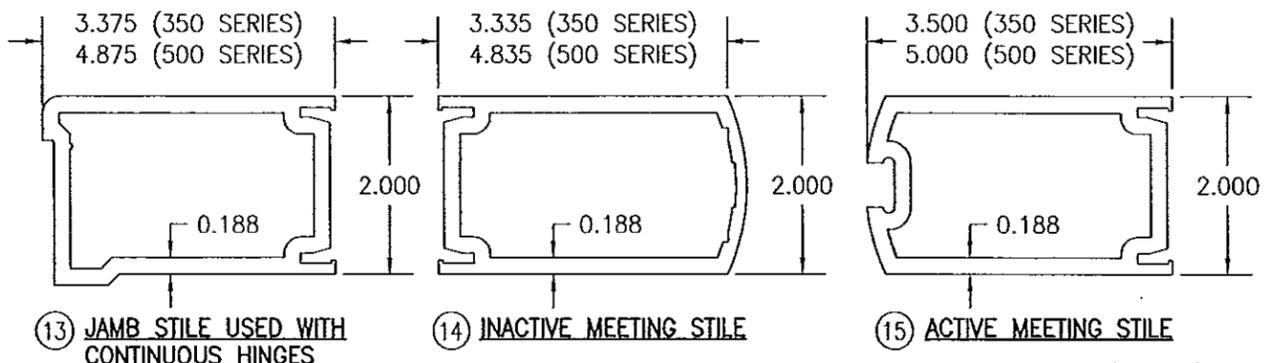
⑪ BOTTOM RAIL



⑫ JAMB STILE USED WITH BUTT OR PIVOT HINGES

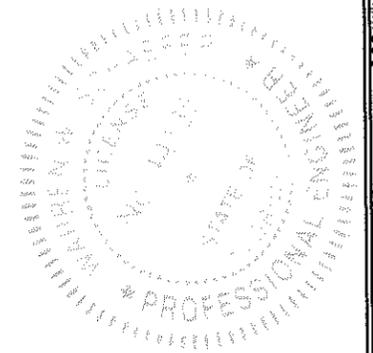


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 05/16/12
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424
CERTIFICATION NOV 15 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1821	REV.
SHEET NO. 10 OF 12	



**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 14-0430-04  
 Expiration Date 12/13/17  
 By *[Signature]*  
 Miami Dade Product Control

Approved as complying with the Florida Building Code  
 Date 12/13/12  
 NOA# 12-0923-11  
 Miami Dade Product Control  
 By *[Signature]*



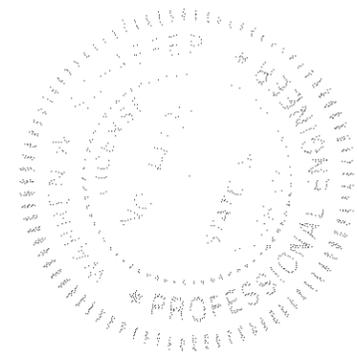
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/16/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: IR350/500 HW WIND ZONE 4 L.M.I. OUT-SWING DOORS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418		555 GUTHRIDGE COURT, NORCROSS, GA 30092	
PHONE: 561-744-3424		770-449-5555	
CERTIFICATION: NOV 15 2012		WARREN W. SCHAEFER, P.E.	
DRAWING NO. 1821		REV.	
SHEET NO. 11		OF 12	

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	TRIFAB 450 HEAD FRAMING	6063-T6 ALUMINUM
2	TRIFAB 451 HEAD FRAMING	6063-T6 ALUMINUM
3	IR500/501 HEAD FRAMING	6063-T6 ALUMINUM
4	HEAD FRAME WITHIN CURTAIN WALL SYSTEM	6063-T6 ALUMINUM
5	TRIFAB 450 JAMB FRAMING	6063-T6 ALUMINUM
6	TRIFAB 451 JAMB FRAMING	6063-T6 ALUMINUM
7	IR500/501 JAMB FRAMING	6063-T6 ALUMINUM
8	DOOR ADAPTOR WITHIN CURTAIN WALL SYSTEM	6063-T6 ALUMINUM
9	THRESHOLD	6063-T6 ALUMINUM
10	TOP RAIL	6063-T6 ALUMINUM
11	BOTTOM RAIL	6063-T6 ALUMINUM
12	JAMB STILE USED WITH BUTT OR PIVOT HINGES	6063-T6 ALUMINUM
13	JAMB STILE USED WITH CONTINUOUS HINGES	6063-T6 ALUMINUM
14	INACTIVE MEETING STILE	6063-T6 ALUMINUM
15	ACTIVE MEETING STILE	6063-T6 ALUMINUM
17	SHEAR BLOCK	6063-T6 ALUMINUM
18	SHEAR BLOCK	6063-T6 ALUMINUM
19	SHEAR BLOCK	6063-T6 ALUMINUM
20	TOP DOOR STOP	6063-T6 ALUMINUM
21	JAMB DOOR STOP BODY	6063-T6 ALUMINUM
22	JAMB DOOR STOP COVER	6063-T6 ALUMINUM
23	THRESHOLD STOP	6063-T6 ALUMINUM (PLACED @ MID-SPAN OF SILL)
24	JAMB DOOR STOP	6063-T6 ALUMINUM
25A	EXTERIOR MONOLITHIC GLAZING BEAD (WET GLAZED)	6063-T6 ALUMINUM
25B	EXTERIOR MONOLITHIC GLAZING BEAD (TAPE GLAZED)	6063-T6 ALUMINUM
26A	EXTERIOR I.G. GLAZING BEAD (WET GLAZED)	6063-T6 ALUMINUM
26B	EXTERIOR I.G. GLAZING BEAD (TAPE GLAZED)	6063-T6 ALUMINUM
27	INTERIOR GLAZING BEAD	6063-T6 ALUMINUM
28	DOOR BOTTOM WEATHER SWEEP BODY	6063-T6 ALUMINUM
29	DOOR BOTTOM WEATHER SWEEP SCREW COVER	6063-T6 ALUMINUM
30	THRESHOLD CLIP	1010-1020 H.R. STEEL
37	1/4" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
38	1/2" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
SEALS & SEALANTS		
44	DOOR BULB WEATHERING	ALCRYN DUROMETER 70 +/-5 & RIGID PVC
45	DOOR SWEEP	NEOPRENE
46	EXTERIOR GLAZING GASKET	TREMCO TR-13536E EPDM DUROMETER 70 +/-5
47	5/16" X 5/16" GLAZING TAPE	POLYURETHANE FAOM DUROMETER 30 +/-5
48	1/4" X 1/4" GLAZING TAPE	POLYURETHANE FAOM DUROMETER 30 +/-5
49	ADJUSTABLE ASTRAGAL WEATHERING	5052-H32 ALUMINUM/NYLON/POLYURETHANE/EPDM
50	0.090" X 0.875" GLAZING TAPE	3M CONFORMABLE ACRYLIC FOAM
HARDWARE		
54	BUTT HINGE	HAGER 037-264
55	TOP OFFSET PIVOT HINGE	KAWNEER NO. 050-322
	INTERMEDIATE PIVOT HINGE	KAWNEER NO. 037-233/037-234
	BOTTOM OFFSET PIVOT HINGE	KAWNEER NO. 050-326/050-327
56	CONTINUOUS HINGE	HAGER/ROTON 050-820

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
HARDWARE CONTINUED		
57	ACTIVE DOOR LOCK ASSEMBLY (LOCK OPTION 1)	ADAMS-RITE 1850 3-POINT LOCK SYSTEM WITH KAWNEER'S CYLINDER, THUMBTURN & PUSH PACKAGE
58	INACTIVE DOOR LOCK ASSEMBLY (LOCK OPTION 1)	ADAMS-RITE FLUSH BLOTS 50-079 TOP FLUSH BOLT 50-075 BOTTOM FLUSH BOLT
59	ACTIVE DOOR LOCK ASSEMBLY (LOCK OPTION 2)	KAWNEER 1686 PANIC DEVICE SYSTEM WITH KAWNEER'S DEADBOLT (PANIC DEVICE ACTUATES TOP & BOTTOM SHOOTBOLTS)
60	INACTIVE DOOR LOCK ASSEMBLY (LOCK OPTION 2)	KAWNEER 1686 PANIC DEVICE (PANIC DEVICE ACTUATES TOP & BOTTOM SHOOTBOLTS)
61	ACTIVE DOOR LOCK ASSEMBLY (LOCK OPTION 3)	FALCON HH 1690 OR VON DUPRIN HH9947 CONSEALED VERTICAL ROD PANIC DEVICE SYSTEM WITH SCHLAGE'S DEADBOLT (PANIC DEVICE ACTUATES TOP & BOTTOM SHOOTBOLTS)
62	INACTIVE DOOR LOCK ASSEMBLY (LOCK OPTION 3)	FALCON HH 1690 OR VON DUPRIN HH9947 CONSEALED VERTICAL ROD PANIC DEVICE SYSTEM (PANIC DEVICE ACTUATES TOP & BOTTOM SHOOTBOLTS)
65	PUSH-PULL HANDLE	AS REQ'D
FASTENERS		
69	NO. 10 X 1 19/32" PHTF SCREW	4 PER SHEAR BLOCK
70	NO. 10 X 9/16" FHTF SCREW	2 PER SHEAR BLOCK
71	NO. 6 X 3/8" FHTF SCREW	WITHIN 2" FROM ENDS & 10" MAX. O.C.
74	NO. 12 X 1 7/8" FHTF SCREW	4 PER SHEAR BLOCK
75	NO. 12 X 1" PHTF SCREW	3 PER HORIZONTAL
76	NO. 8 X 3/8" PHTF SCREW	WITHIN 1" FROM ENDS & 16" MAX. O.C.
77	NO. 12-24 X 9/16" SCREW	8 PER HINGE
78	5/16"-18 X 5/8" SCREW	2 PER TOP PIVOT HINGE
79	NO. 12-24 X 9/16" SCREW	2 PER INTERMEDIATE PIVOT HINGE
80	1/4-20 X 3/8" SCREW	3 PER BOTTOM PIVOT HINGE
81	NO. 12-24 X 13/32" SCREW	2 9/16" FROM ENDS & 5 1/8" MAX. O.C.
82	NO. 8 X 3/8" FHTF SCREW	WITHIN 1" FROM ENDS & 9" MAX. O.C.
83	NO. 6-18 FHTF SCREW	10 PER LEAF
84	NO. 10 X 1/2" FHTF SCREW	WITHIN 3" FROM ENDS & 11 1/8" MAX. O.C.

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 14-0430.04  
 Expiration Date DEC 13/2017  
 By: Isaac I. Chant  
 Miami Dade Product Control

Approved as complying with the  
 Florida Building Code  
 Date 12-13-12  
 NOA# 12-0823.11  
 Miami Dade Product Control  
 By: Isaac I. Chant



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PLOT: 1-2	DATE: 05/16/12
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REVISION DESCRIPTION	NO.
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CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
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SHEET NO. 12 OF 12	