



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  
www.miamidade.gov/buildingcode

## NOTICE OF ACCEPTANCE (NOA)

Ingersoll Rand  
6810 Hillsdale Court  
Indianapolis, IN 46250

### 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 High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Series 16 Ga. Steel Storefront System – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 1107W, titled "F Frames Borrowed Lite Elevations" Sheets 1 through 5 of 5, prepared by manufacturer, dated 03/09/04 and last revised on 06/06/05, signed and sealed by Gordon Thomas, 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

#### Limitation:

1. Doors are under separate IR NOA(s). Lower design pressure of doors or storefront shall control.
2. DLO (Day Light Opening) not to exceed shown in elevation sheet 2.
3. Min two anchors at head/sill must be provided at mullion end.
4. 3/8" masonry Rawl bolts must be installed w/ min 2" embedment & 4.5" edge distance.
5. 3/8" Lag bolt must be installed with min 2-1/4" embedment into 2 (2X buck) with min 1-1/2 edge dist.

**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 renews NOA No. 04-0707.01 consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



10/27/10

NOA No 10-0623.01  
Expiration Date: June 30, 2011  
Approval Date: November 18, 2010

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS (Transferred from # 04-0707.01)**

1. Manufacturers die drawings and sections.
2. Drawing No. **1107W**, titled "F Frames Borrowed Lite Elevations" Sheets 1 through 5 of 5, prepared by manufacturer, dated 03/09/04 and last revised on 06/06/05, signed and sealed by Gordon Thomas, P. E.

**B. TESTS (Transferred from # 04-0707.01).**

1. Test reports on
  - 1) Air Infiltration Test, per FBC TAS 202-94
  - 2) Uniform Static Air Pressure Test Loading per FBCTAS 202-94
  - 3) Water Resistance Test, per FBC TAS 202-94
  - 4) Large Missile Impact Test, FBC TAS 201-94
  - 5) Cyclic Loading Test, per FBC TAS 203-94

Along with installation diagram of aluminum glazed framing system, marked-up by Certified Testing Laboratories, Inc. Test Report No. **CTLA-1107W**, dated June thru August 2003, signed and sealed by Ramesh C. Patel, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, prepared and supplemented by Evaluation Report date 05/25/05, signed and sealed by Gordon Thomas P. E.
2. Glazing complies with ASTM E-1300-02 & 04.

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO)

**E. MATERIAL CERTIFICATIONS (Transferred from # 04-0707.01)**

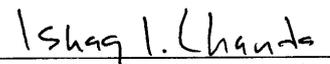
1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" expiring on 01/14/12.
2. Min 16 ga (.065") Steel frame w/ min Fy = 36 ksi

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest, signed and sealed by Gordon Thomas P. E. (transferred from file # **04-0707.01**)
2. Statement letter of compliance, as part of above referenced test report.

**G. OTHER**

1. This NOA **renews NOA No. 04-0707.01** for one year, expiring June 30, 2011.
2. Conditional one year renewal subjected to re-verification test per test proposal # **05-0192** and balance of four remaining year for revision approval.



Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 10-0623.01

Expiration Date: June 30, 2011

Approval Date: November 18, 2010

**NOTES:**

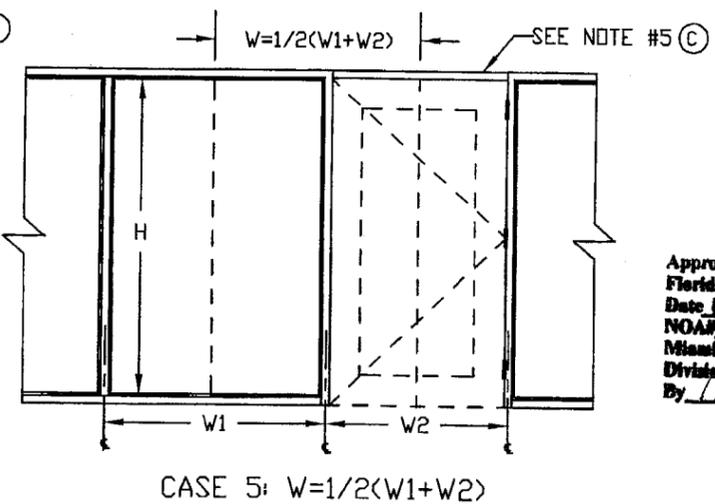
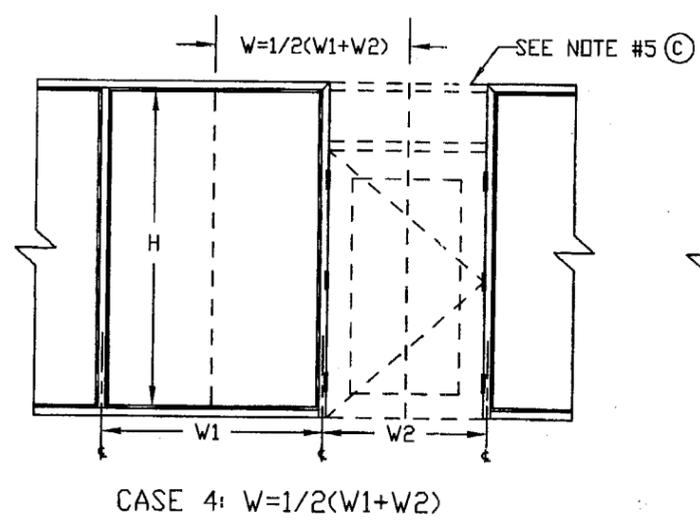
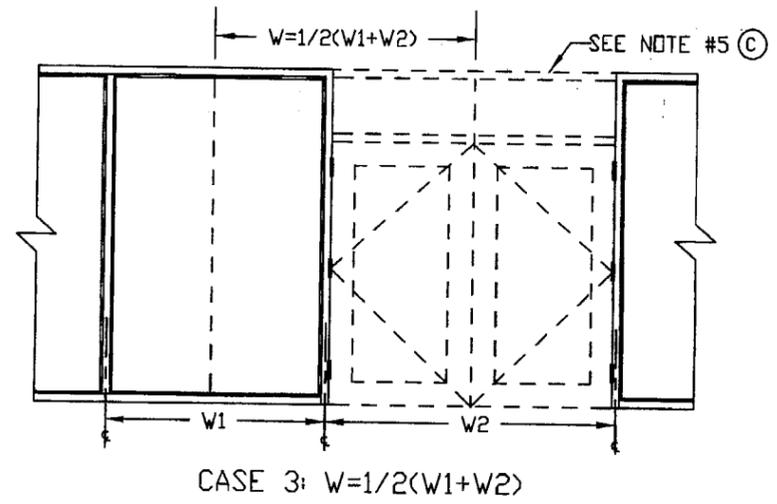
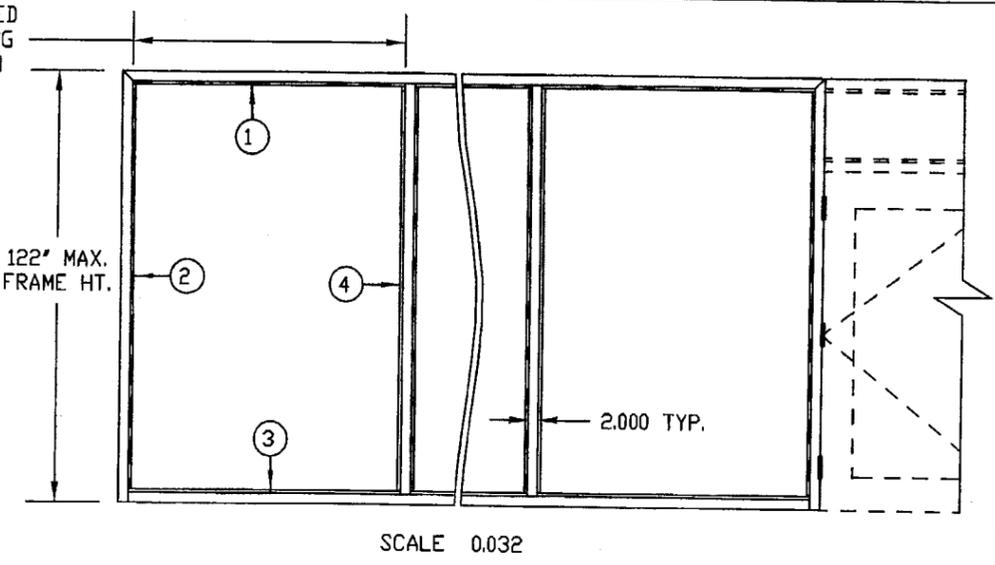
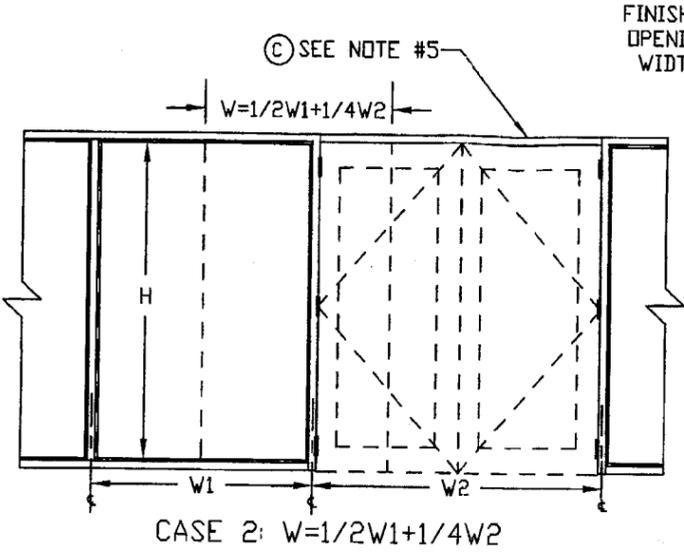
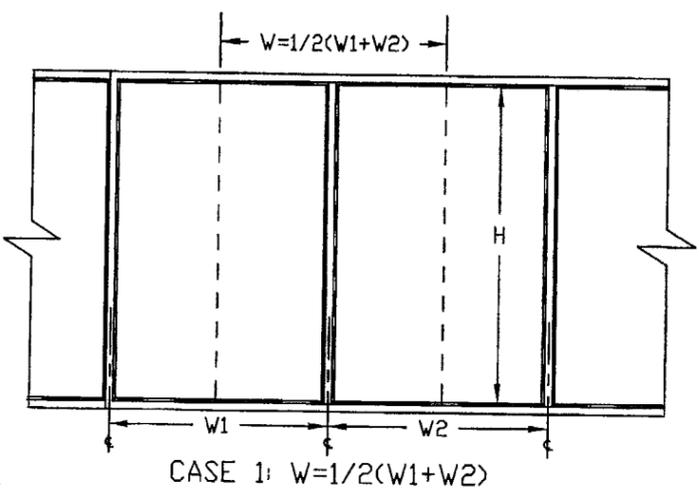
- 1- STEELCRAFT BORROWED LITE SYSTEM IS RATED FOR LARGE MISSILE IMPACT, DESIGN PRESSURE & WATER INFILTRATION.
- 2- SEE SHT #2 FOR ANCHORING SYSTEM AND FASTENER REQUIREMENTS.
- 3- SEE SHT #5 FOR FRAME SECTIONS, CORNER CONNECTIONS & BEAD DETAILS.
- 4- THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPROVED ENTRANCE DOORS BY INGERSOLL-RAND.
- 5- DOORS PER SEPARATE INGERSOLL-RAND NDA.

**FRAME SIZE AND MULLION CAPACITY LIMITATIONS**  
 GEOMETRICAL FRAME DIMENSIONS ARE LIMITED BY MULLION CAPACITY AND MUST SATISFY THE FOLLOWING CONDITIONS:  
 (H x W) 4600 SQ. IN.  
 W 58"  
 H 122"

(SEE CASE 1 THRU 5 ON THIS SHT.)  
 H= MULLION HT. W= LOAD AREA WIDTH, W1 & W2= SPACING BETWEEN MULLIONS

DESIGN PRESSURE RATING APPROVED FOR WATER INFILTRATION	
POSITIVE	+60 PSF
NEGATIVE	-60 PSF

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	03/22/04	
B	CHANGES PER MARKED PRINT	04/23/04	
C	MODIFIED PER EC#04-305	LWG 08/27/04	
D	MODIFIED PER MD BCCO	YMF 05/02/05	
E	MODIFIED PER MD BCCO	YMF 06/02/05	



Approved as complying with the Florida Building Code  
 Date 06/30/05  
 NOA# 04-0402-01  
 Miami Dade Product Control Division  
 By *[Signature]*

PRODUCT RENEWED  
 as complying with the Florida Building Code  
 Acceptance No 10-0623.01  
 Expiration Date 06/30/2011  
 By Ishag I. Chayda  
 Miami Dade Product Control Division

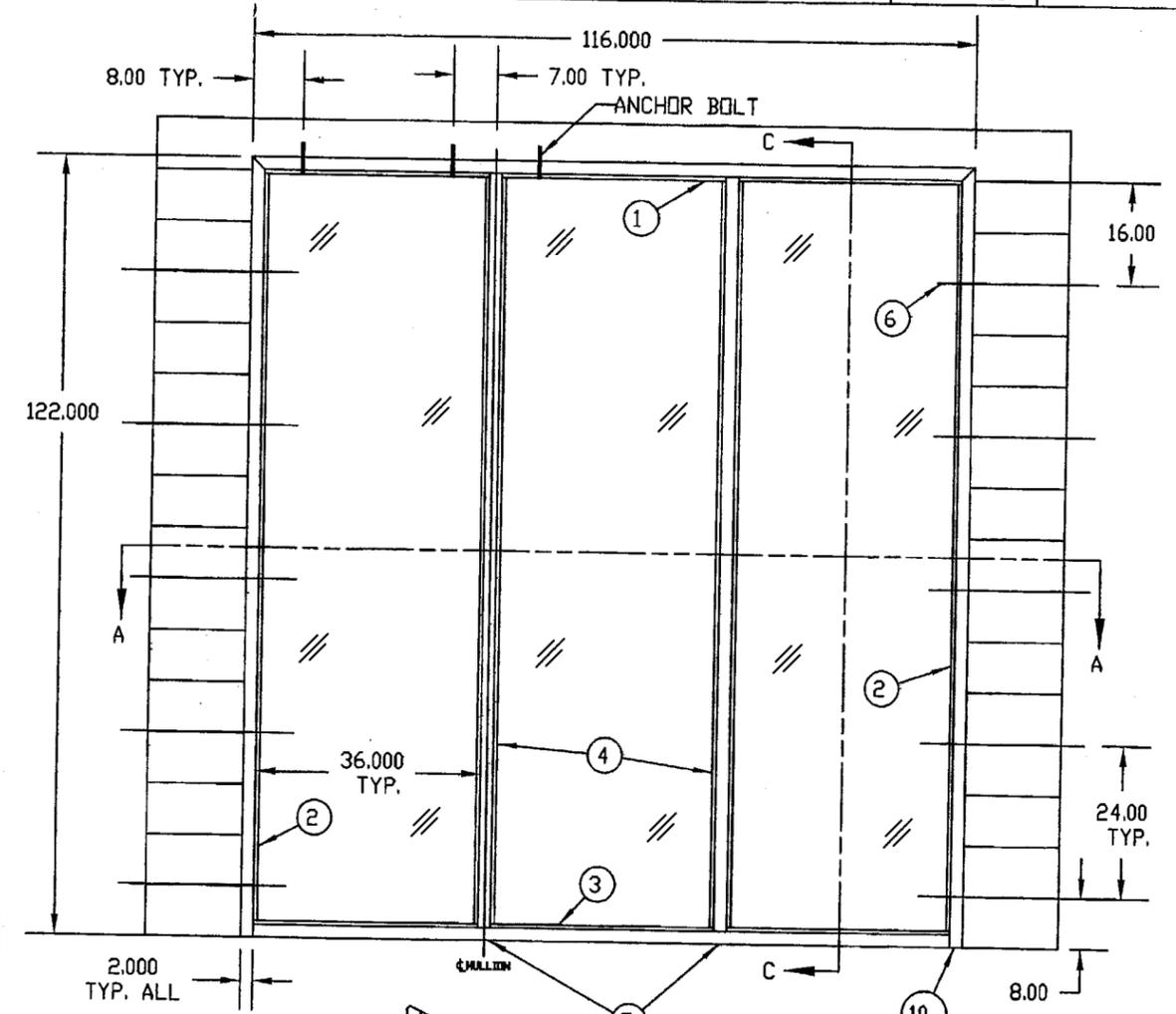
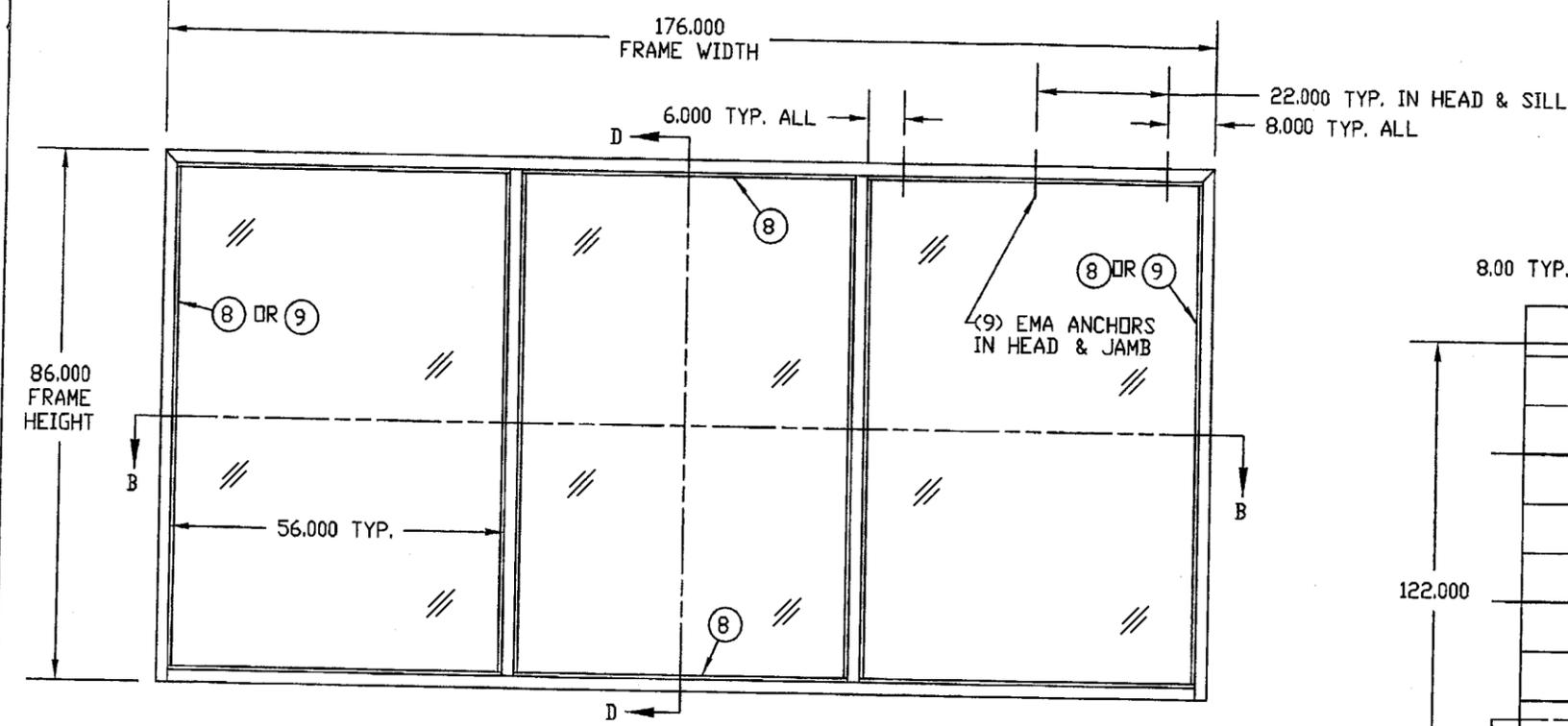
*[Handwritten signature]*  
 06/30/05  
 PL 46718

BEND RADIUS N/A	<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 452 42		
THIRD ANGLE PROJECTION DRAWN LWG DATE 03/09/04	TITLE MIAMI-DADE COUNTY APPROVED F FRAMES BORROWED LITE ELEVATIONS		
CHECKED YMF	SIZE B	FLAT N/A	DWG NO. 1107W
APPROVED M. COLLINS	SCALE 0.025	Pro/Engineer	REV E
ENG. APPVL	SHEET 1 OF 5		

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	03/22/04	
B	CHANGES PER MARKED PRINT	04/23/04	
C	MODIFIED PER EC#04-305 LWG	08/27/04	
D	MODIFIED PER DC BCCD	06/02/05	

*Handwritten:* Add 10/20/05 to 46718



PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No 102943-01  
Expiration Date 06/30/2011  
By J. Shag L. Chaudhary  
Miami Dade Product Control  
Division

DESIGN PRESSURE RATING APPROVED FOR WATER INFILTRATION	
POSITIVE	+60 PSF
NEGATIVE	-60 PSF

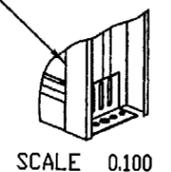
MATERIAL LIST			
ITEM	DESCRIPTION	MATERIAL & SIZE	REMARKS
1	HEAD SECTION	.053" MIN. STL. 5.75" JAMB DEPTH	ASTM A366
2	SIDE JAMB	.053" MIN. STL. 5.75" JAMB DEPTH	ASTM A366
3	SILL SECTION	.053" MIN. STL. 5.75" JAMB DEPTH	ASTM A366
4	CLOSED SECTION VERT. MULLION	.053" MIN. STL. 5.75" JAMB DEPTH	ASTM A366
5	SILL BASE ANCHOR	.053" MIN. STL. 5.75" JAMB DEPTH	
6	MASONRY WIRE ANCHOR	Ø.187 BASIC WIRE 5.19" x 9.56"	
7	MASONRY T-ANCHOR	.044" MIN. STL. 5.75" JAMB DEPTH	
8	EMA ANCHOR	.044" MIN. STL. 5.75" JAMB DEPTH	
9	UNIVERSAL ANCHOR	.044" MIN. STL. 5.75" JAMB DEPTH	
10	BASE ANCHOR	.044" MIN. STL. 5.75" JAMB DEPTH	

FASTENER LIST			
WALL CONDITION	ANCHOR TYPE	FASTENER TYPE & SIZE	QTY PER ANCHOR
WOOD STUD	WOOD STUD LOCK-IN OR WELD-IN	#8 x 1.75"	4
	EXISTING MASONRY LOCK-IN OR WELD-IN	.375" x 5" LAG BOLT	1
STEEL STUD	STEEL STUD LOCK-IN OR WELD-IN	#12 SMS	2
NEW MASONRY	WIRE OR T-ANCHOR	-	-
EXISTING MASONRY (EMA)	EXISTING MASONRY LOCK-IN OR WELD-IN	.375" x 5" ANCHOR BOLT	1

SEE THIS SHT  
FOR SPACING  
AND FASTENER  
TYPES



Approved as complying with the  
Florida Building Code  
Date 06/30/05  
By NOAM  
Miami Dade Product Control  
Division



BEND RADIUS N/A

THIRD ANGLE PROJECTION

DRAWN LWG DATE 03/09/04

CHECKED YMF

APPROVED M. COLLINS

ENG. APPVL

**HR** INGERSOLL-RAND COMPANY  
STEELCRAFT MFG.  
9017 BlueAsh Rd. Cincinnati Ohio 452 42

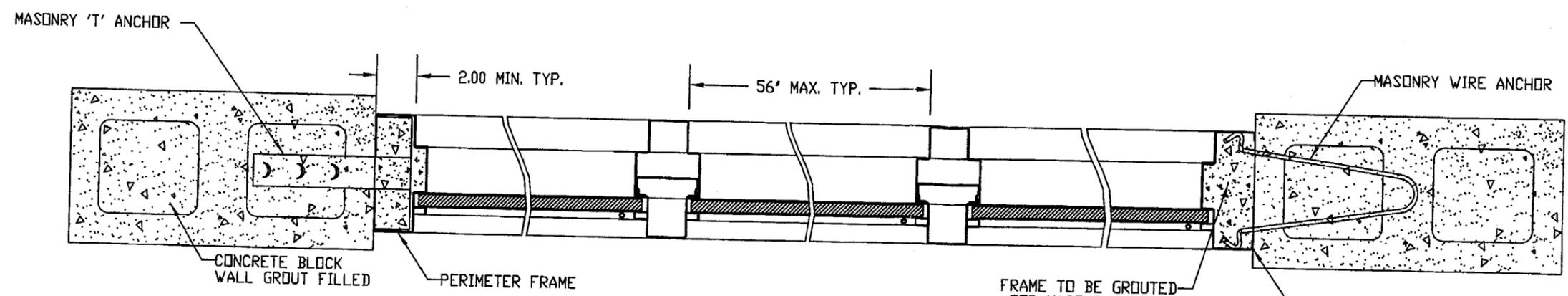
TITLE MIAMI-DADE COUNTY APPROVED F FRAMES

BORROWED LITE ELEVATIONS

SIZE B FLAT DWG NO. 1107W OF TEST REV D

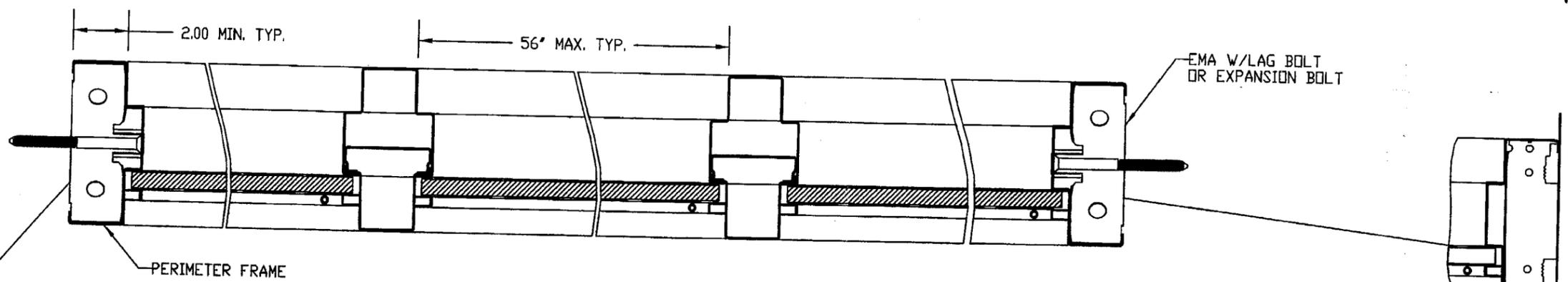
SCALE: 0.04 Pro/Engineer SHEET 2 OF 5

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	03/22/04	
B	CHANGES PER MARKED PRINT	04/23/04	
C	MODIFIED PER EC#04-305 LWG	08/27/04	
D	MODIFIED PER DC BCCO	06/02/05	

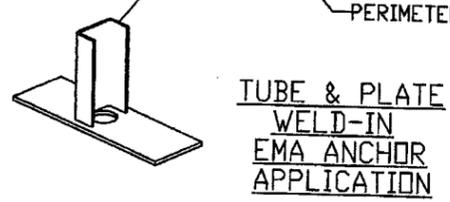


SECTION A-A  
SCALE 0.180

*Handwritten signature and date:*  
6/6/05  
FL 46718



SECTION B-B  
SCALE 0.250



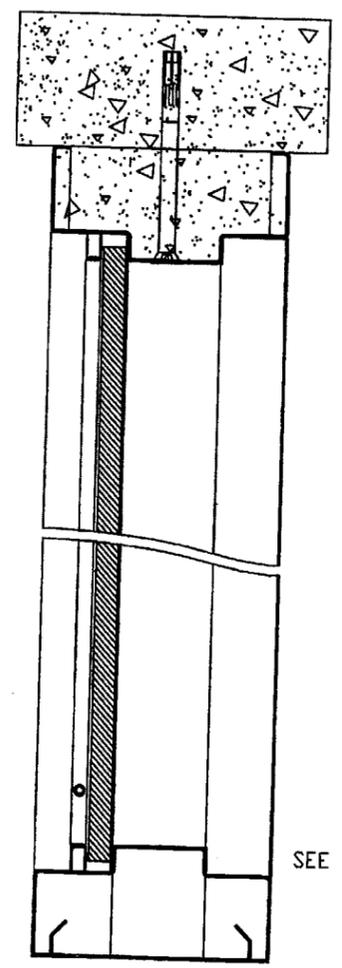
Approved as complying with the Florida Building Code  
Date: 06/06/05  
NOA# 04-0303-01  
Miami Dade Product Control  
Division  
By: *M. Khair*

UNIVERSAL ANCHOR  
WOOD STUD APPLICATION  
SCALE 0.250

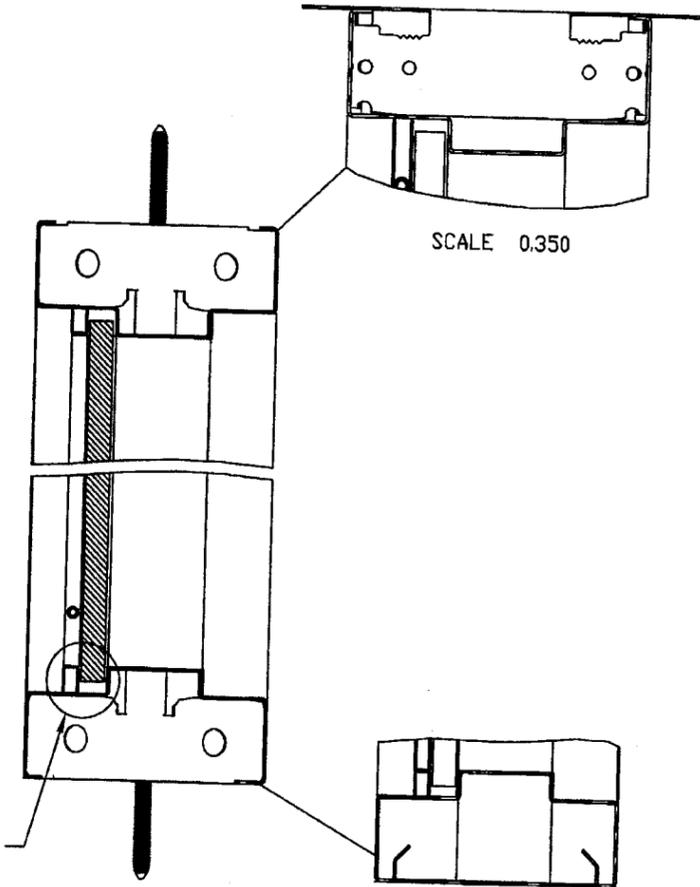
PRODUCT RENEWED  
as complying with the Florida Building Code  
Acceptance No 10-0623-01  
Expiration Date 06/30/2011  
By: *Khag L. Chandra*  
Miami Dade Product Control  
Division

BEND RADIUS N/A	<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd Cincinnati Ohio 452 42		
THIRD ANGLE PROJECTION DRAWN LWG CHECKED YMF	TITLE MIAMI-DADE COUNTY APPROVED F FRAMES BORROWED LITE ELEVATIONS, HORIZONTAL CROSS-SECTION		
APPROVED M. COLLINS ENG. APPVL	SIZE B	FLAT N/A	DWG NO. 1107W
	SCALE SEE VIEWS	Pro/Engineer	REV D
			SHEET 3 OF 5

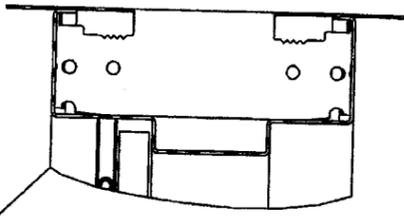
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	03/22/04	
B	CHANGES PER MARKED PRINT	04/23/04	
C	MODIFIED PER EC#04-305 LWG	08/27/04	
D	MODIFIED PER DC BCCD YMF	08/27/04	
E	MODIFIED PER DC BCCD YMF	05/02/05	
F	MODIFIED PER DC BCCD YMF	06/02/05	



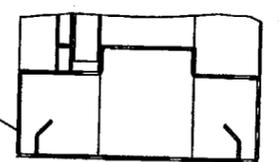
SECTION C-C  
MASONRY BLOCK WALL  
SCALE 0.350



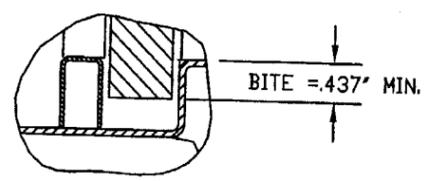
SECTION D-D  
WOOD STUD WALL  
SCALE 0.350



SCALE 0.350

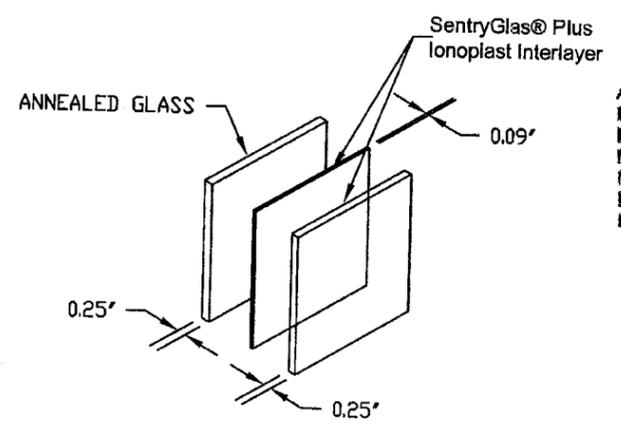


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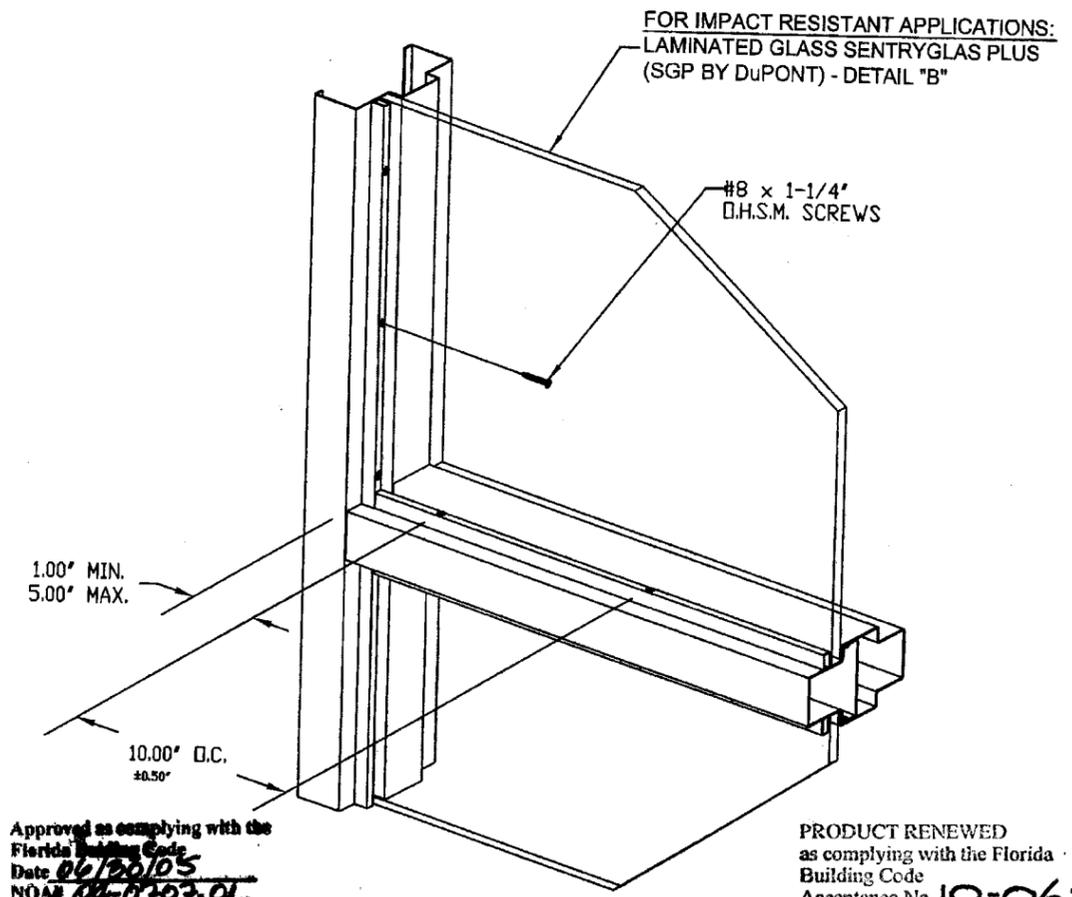


DETAIL A  
SCALE 0.750

*Handwritten signature and date:*  
Add M  
6/16/05  
FL 46718



DETAIL "B"  
LAMINATED GLASS CONSTRUCTION  
WITH SENTRYGLAS PLUS



Approved as complying with the  
Florida Building Code  
Date 06/30/05  
NOA# 01-0007-01  
Miami Dade Product Control  
Division  
By M. Khalil

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No 10-0623.01  
Expiration Date 06/30/2011  
By Lehugl. Chanda  
Miami Dade Product Control  
Division

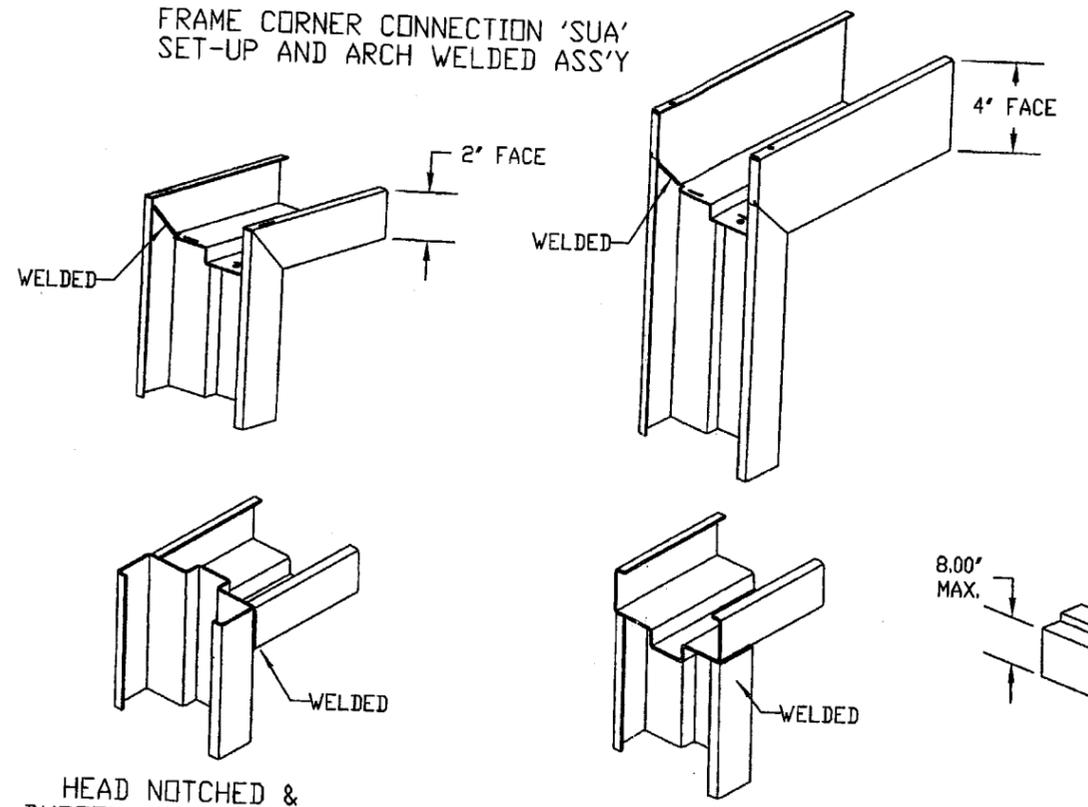
FRAME GLAZING DETAIL  
SCALE 0.180

BEND RADIUS N/A				<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 452 42	
THIRD ANGLE PROJECTION	TITLE MIAMI-DADE COUNTY APPROVED F FRAMES BORROWED LITE ELEVATIONS, VERTICAL CROSS-SECTION				
DRAWN LWG	DATE 03/09/04	SIZE B	FLAT	DWG NO. 1107W	REV F
CHECKED YMF	APPROVED M. COLLINS	ENG. APPVL	SCALE	Pro/Engineer	SHEET 4 OF 5

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DRAWING	03/22/04	
B	CHANGES PER MARKED PRINT	04/23/04	
C	MODIFIED PER EC#04-305 LWG	08/27/04	
D	MODIFIED DC BCCD	08/27/04	

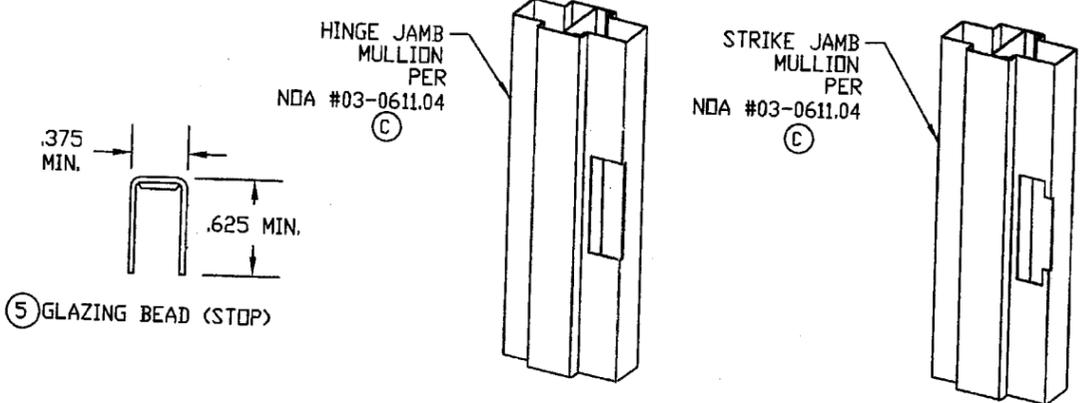
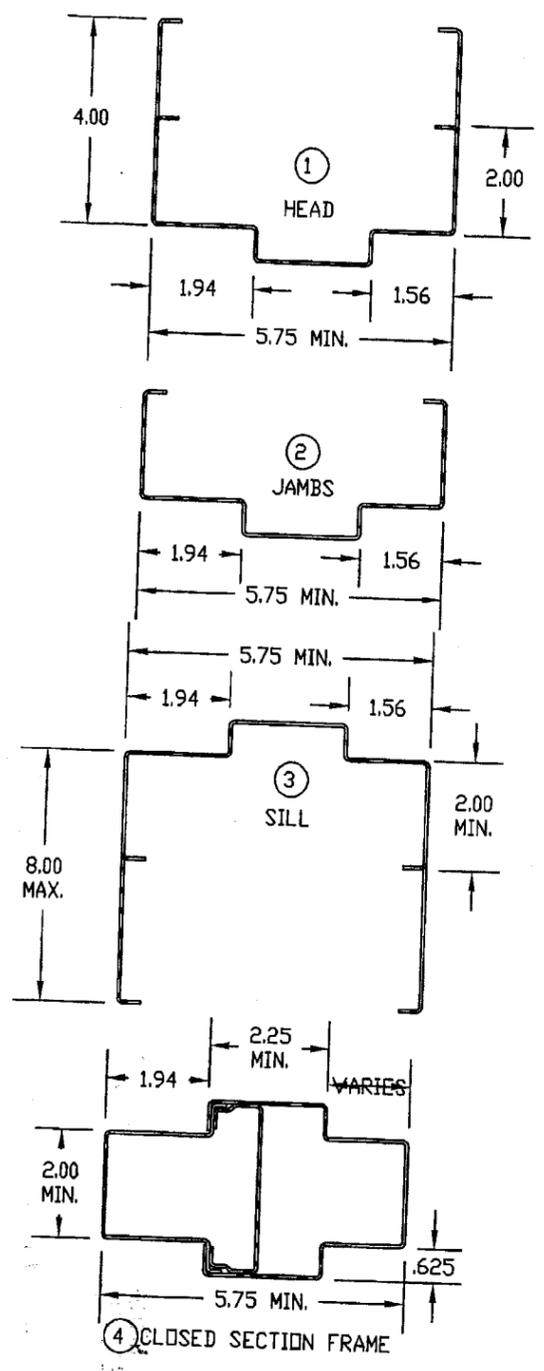
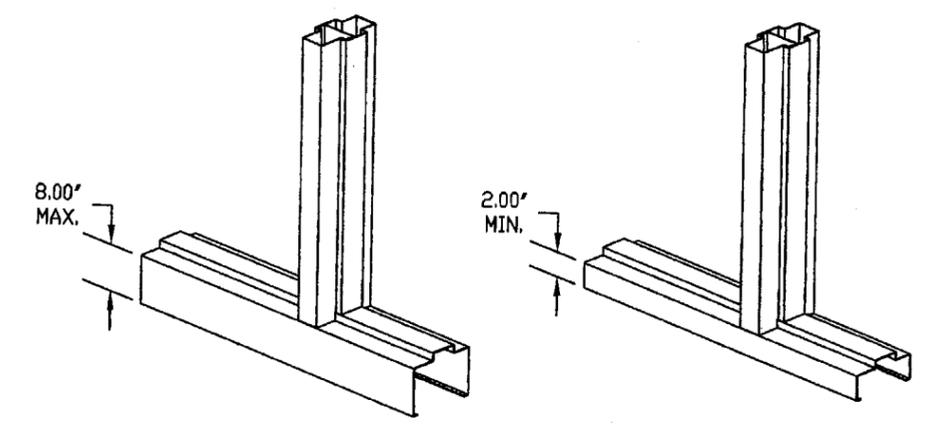
FRAME CORNER CONNECTION 'SUA'  
SET-UP AND ARCH WELDED ASS'Y



HEAD NOTCHED & BUTTED BETWEEN JAMBS

HEAD ON TOP OF NOTCHED JAMBS

FRAME SILL AND MULLION  
DETAIL



GLAZING BEAD (STOP)

HINGE JAMB  
MULLION  
PER  
NDA #03-0611.04  
(C)

STRIKE JAMB  
MULLION  
PER  
NDA #03-0611.04  
(C)

MATERIAL LIST				
ITEM	QTY	DESCRIPTION	MATERIAL	SIZE
1	AS REQ'D	FRAME HEAD	STEEL 16 GA. .053' MIN.	MAX. 176'
2	AS REQ'D	FRAME JAMBS	STEEL 16 GA. .053' MIN.	MAX. 122'
3	AS REQ'D	FRAME SILL	STEEL 16 GA. .053' MIN.	MAX. 176'
4	AS REQ'D	CLOSED SECTION FRAME MULLION/TRANSOM	STEEL 16 GA. .053' MIN.	MAX. 118'
5	AS REQ'D	GLAZING BEAD (STOP)	STEEL 20 GA. .034' MIN.	MAX. 118'
6	AS REQ'D	GLAZING BEAD SCREW	8-18 x 1-1/4 PDHB	@ 5" FROM ENDS, 10" O.C.
7	AS REQ'D	SIKAFLEX 552 GLAZING COMPOUND	POLYURETHANE BASED	-

Approved as complying with the  
Florida Building Code  
Date 06/30/05  
NOA# 04-0707-01  
Miami Dade Product Control  
Division  
By M. Khair

*Handwritten signature*  
6/6/05  
FL 46718

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 10-0623-01  
Expiration Date 06/30/2011

By Shagun Chaudhary  
Miami Dade Product Control  
Division

BEND RADIUS N/A	
THIRD ANGLE PROJECTION	
DRAWN LWG	DATE 03/09/04
CHECKED YMF	
APPROVED M. COLLINS	
ENG. APPVL	

**INGERSOLL-RAND COMPANY**  
STEELCRAFT MFG.  
9017 BlueAsh Rd. Cincinnati Ohio 452 42

TITLE  
MIAMI-DADE COUNTY APPROVED F FRAMES

BORROWED LITE ELEVATIONS, PROFILE AND CONNECTION DETAILS.

SIZE B	FLAT	DWG NO. 1107W	OF TEST	REV D
SCALE: Pro/Engineer			SHEET 5 OF 5	