



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.buildingcodeonline.com](http://www.buildingcodeonline.com)

## NOTICE OF ACCEPTANCE (NOA)

Ingersoll-Rand  
2720 Tobey Drive  
Indianapolis, IN 46219

### 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: 16 Ga. Steel Storefront System

**APPROVAL DOCUMENT:** Drawing No. 1107W, titled "Miami- Dade County Approved F Frames Borrowed Lite Elevations" Sheets 1 through 5 of 5, dated 03/09/04, with revision "E", dated 6/2/05, prepared by manufacturer and signed and sealed by Gordon Dennis Thomas, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

### MISSILE IMPACT RATING: Large and Small Missile Impact

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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

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

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

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

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

The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



NOA No 04-0707.01  
Expiration Date: June 30, 2010  
Approval Date: June 30, 2005  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **1107W**, titled "Miami-Dade County Approved F Frames Borrowed Lite Elevations" Sheets 1 through 5 of 5, dated 03/09/04, prepared by manufacturer and signed and sealed by Gordon Dennis Thomas, P.E.

**B. TESTS**

1. Test reports on
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test, FBC, TAS 201-94
  - 5) Cyclic Loading Test, per FBC, TAS 203-94along with installation diagram of aluminum glazed framing system, marked-up by Certified Testing Laboratories Test Report No. **CTLA-1107W**, dated various, signed and sealed by Ramesh C. Patel, P.E.

**C. CALCULATIONS:**

1. Anchor Calculations, ASTM-E1300, and structural analysis, prepared, signed and sealed by Gordon Thomas, P.E., dated 03/22/04.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **01-1204.01** issued to E.I. DuPont DeNemours for "Sentry® Plus" approved on 01/17/02 and expiring 01/14/07.

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest, dated July 01, 2004, signed and sealed by Roger Vitt.
2. Statement letter of conformance and no financial interest, dated April 29, 2004, signed and sealed by Gordon Thomas, P.E.

**G. OTHER**

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (Code).

  
\_\_\_\_\_  
Herminio F. Gonzalez, P.E.  
Director, Building Code Compliance Office  
NOA No 04-0707.01  
Expiration Date: June 30, 2010  
Approval Date: June 30, 2005

**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.

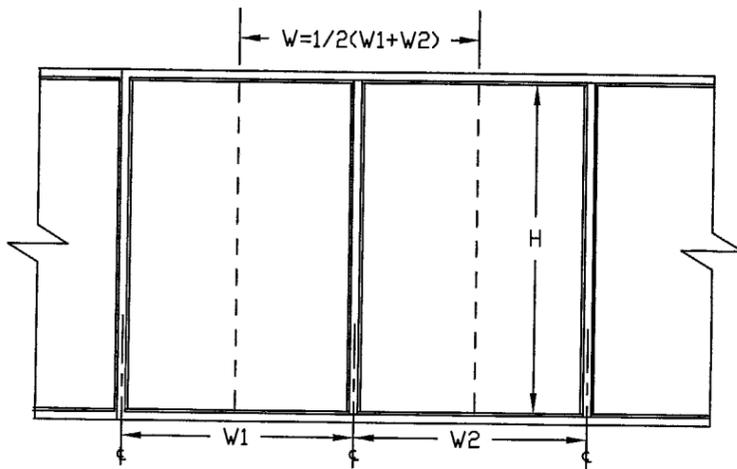
DESIGN PRESSURE RATING APPROVED FOR WATER INFILTRATION	
POSITIVE	+60 PSF
NEGATIVE	-60 PSF

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	

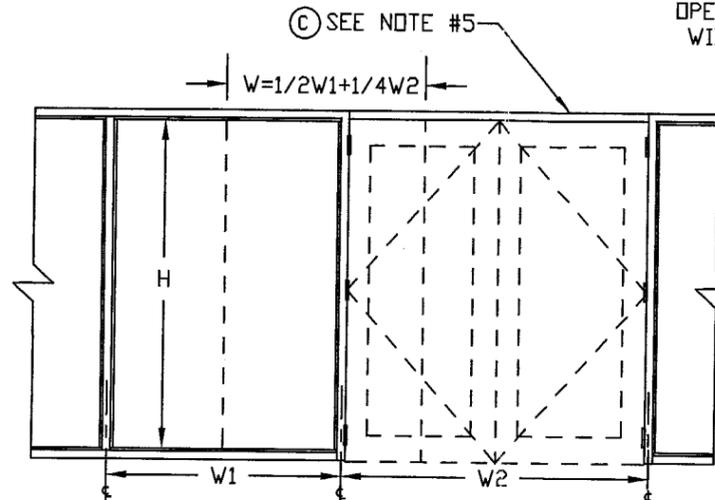
**FRAME SIZE AND MULLION CAPACITY LIMITATIONS**  
 GEOMETRICAL FRAME DIMENSIONS ARE LIMITED BY MULLION CAPACITY AND MUST SATISFY THE FOLLOWING CONDITIONS:  
 (H x W) 4600 SQ. IN.  
 W 58"  
 H 122"

(SEE CASE 1 THRU 5 ON THIS SHT.)

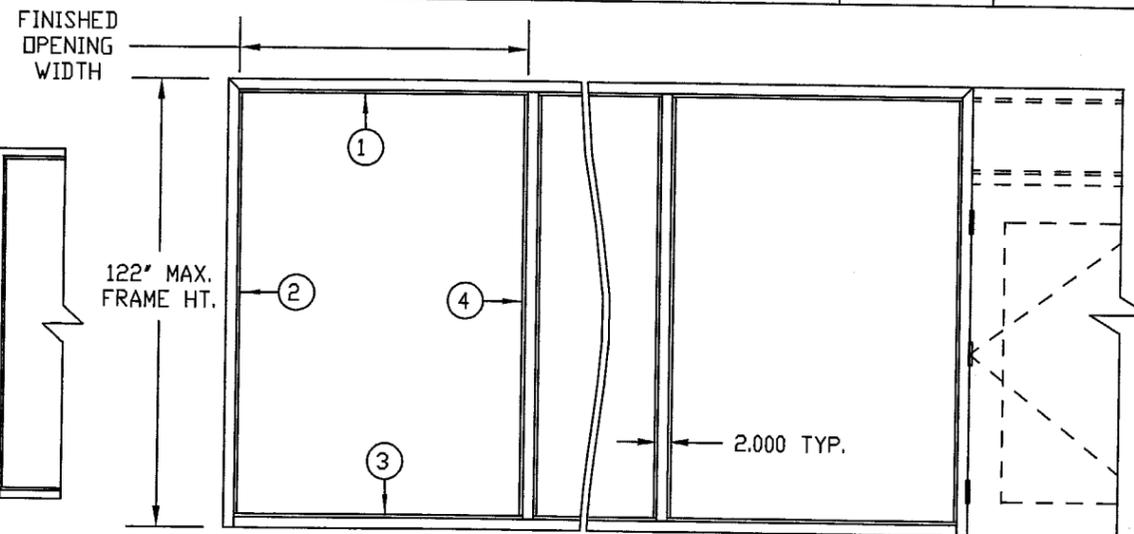
H= MULLION HT. W= LOAD AREA WIDTH, W1 & W2= SPACING BETWEEN MULLIONS



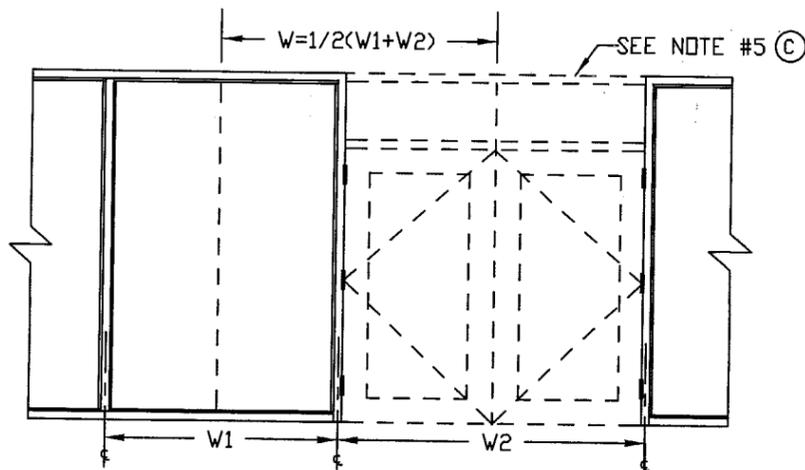
CASE 1:  $W=1/2(W1+W2)$



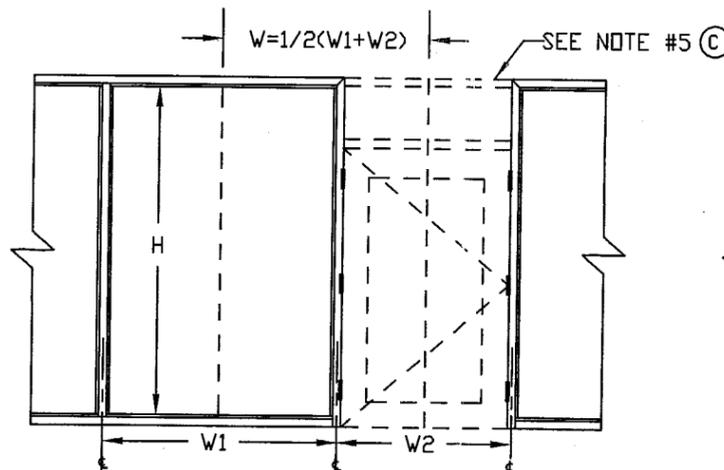
CASE 2:  $W=1/2W1+1/4W2$



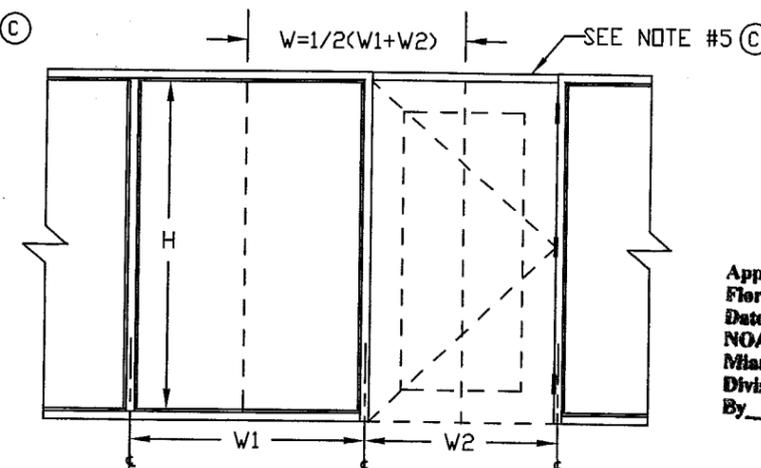
SCALE 0.032



CASE 3:  $W=1/2(W1+W2)$



CASE 4:  $W=1/2(W1+W2)$

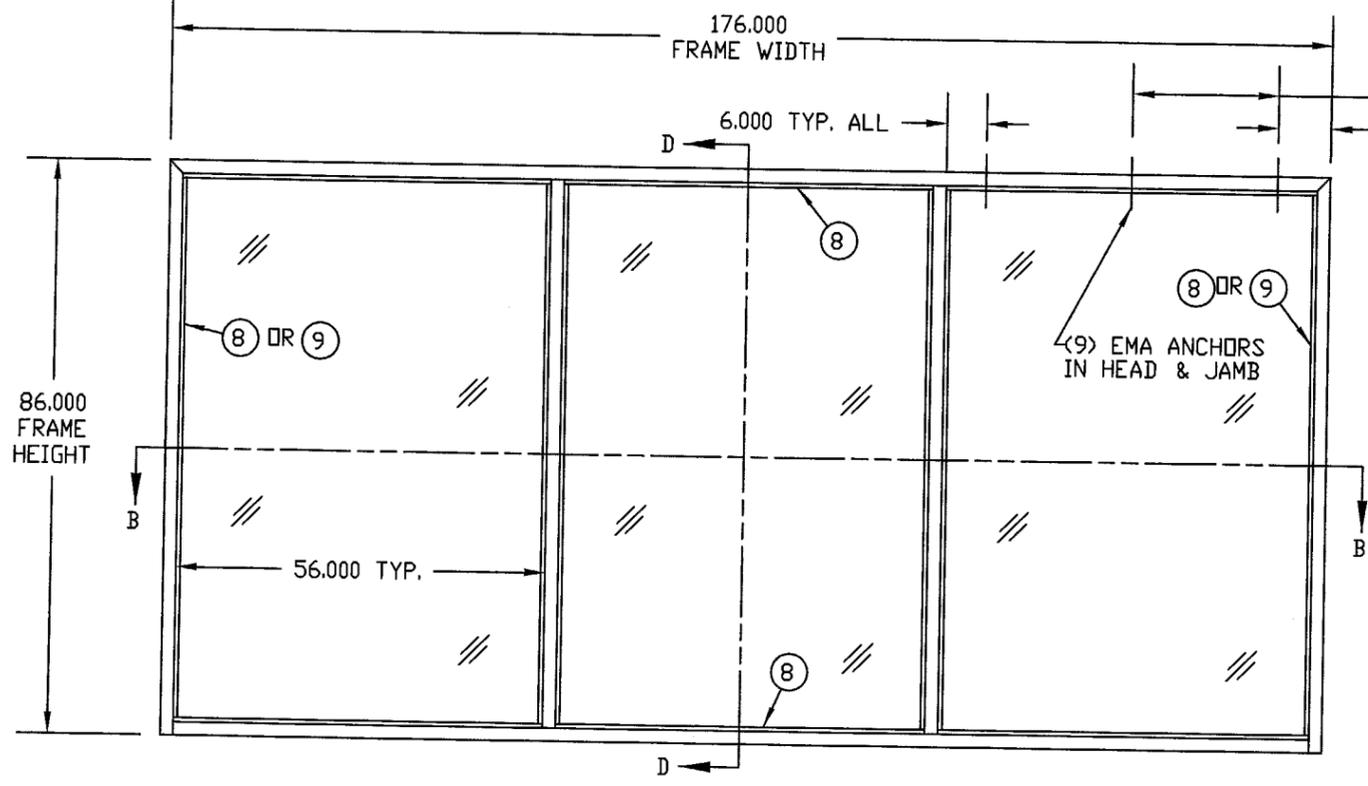


CASE 5:  $W=1/2(W1+W2)$

Approved as complying with the  
 Florida Building Code  
 Date 06/30/05  
 NOAH 04-0407-01  
 Miami Dade Product Control  
 Division  
 By [Signature]

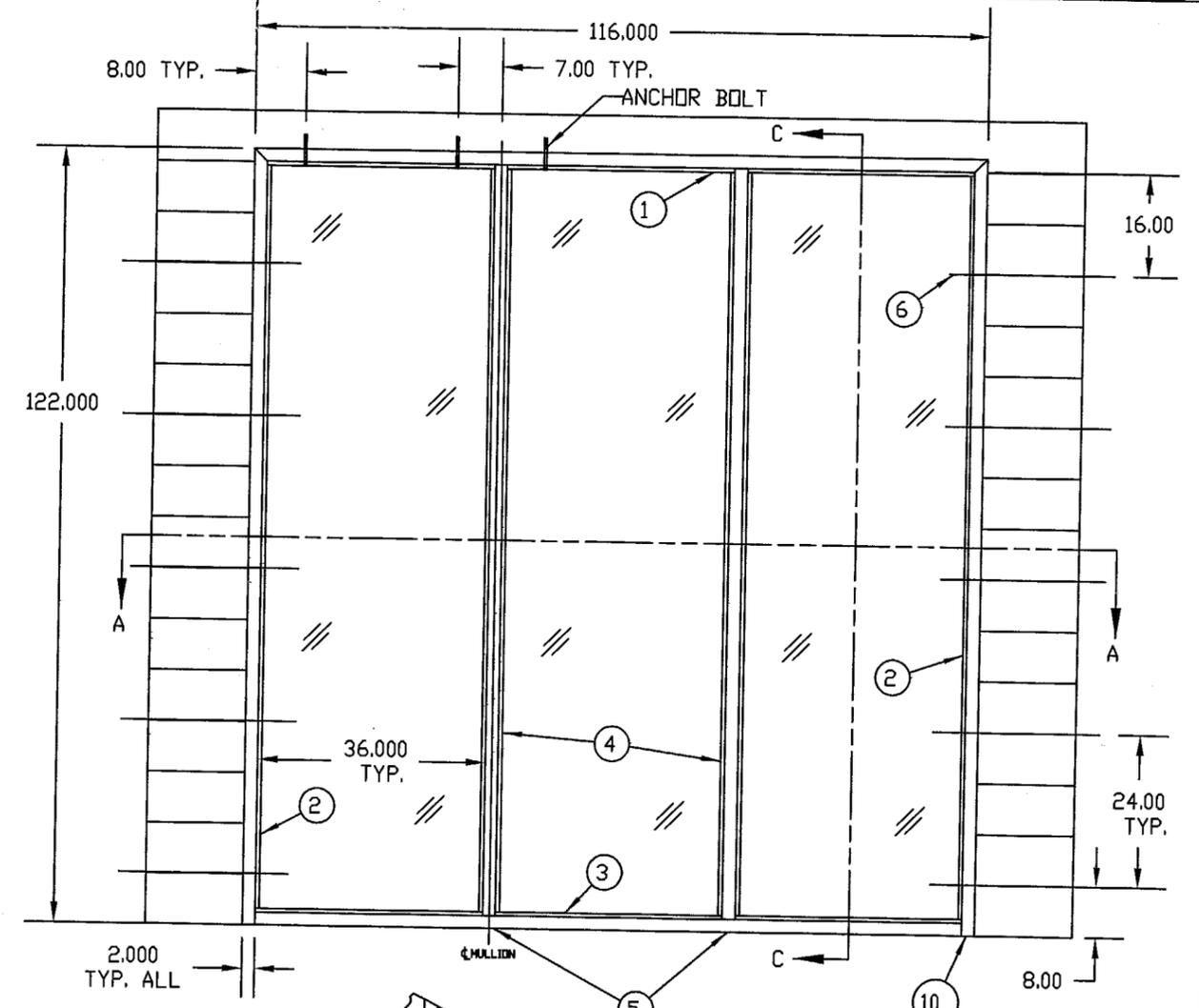
*[Handwritten signature]*  
 6/6/05  
 FC 46718

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		
DRAWN LWG	DATE 03/09/04	SIZE B	FLAT N/A
CHECKED YMF	APPROVED M. COLLINS	DWG NO. 1107W	REV E
ENG. APPVL	SCALE: 0.025	Pro/Engineer	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	

*Added 6/20/05  
R. 46718*

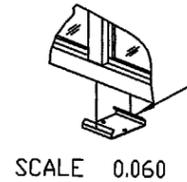


DESIGN PRESSURE RATING APPROVED FOR WATER INFILTRATION	
POSITIVE	+60 PSF
NEGATIVE	-60 PSF

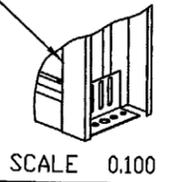
MATERIAL LIST			
ITEM	DESCRIPTION	MATERIAL & SIZE	REMARKS
1	HEAD SECTION	.053" MIN. STL. 5.75" JAMB DEPTH	ASTM A366
2	SIDE JAMB	.053" MIN. STL. 5.75" JAMB DEPTH	ASTM A366
3	SILL SECTION	.053" MIN. STL. 5.75" JAMB DEPTH	ASTM A366
4	CLOSED SECTION VERT. MULLION	.053" MIN. STL. 5.75" JAMB DEPTH	ASTM A366
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 SHIT FOR SPACING AND FASTENER TYPES



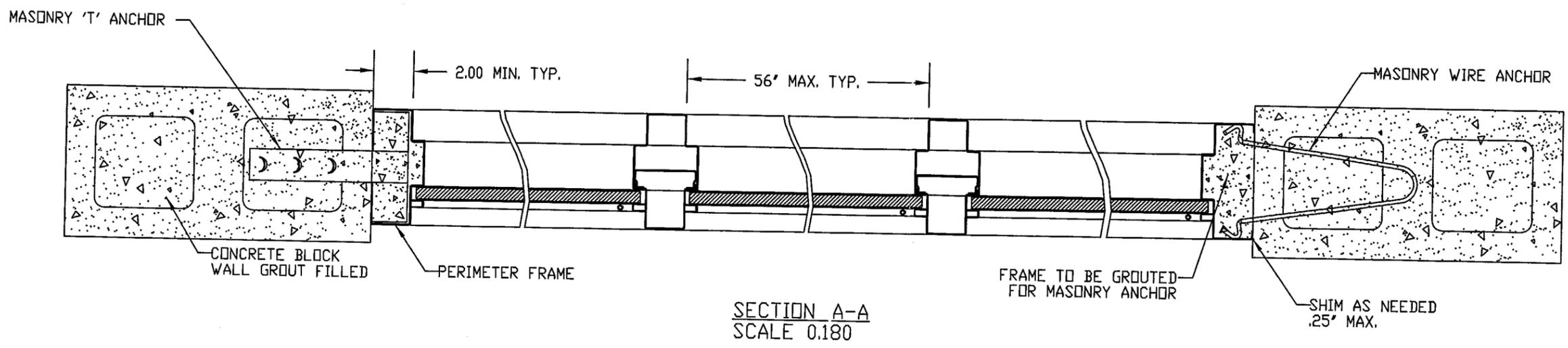
Approved as complying with the Florida Building Code  
Date: 06/20/05  
NOA# 04-07-01  
Miami Dade Product Control  
Division  
By: *M. Shuck*



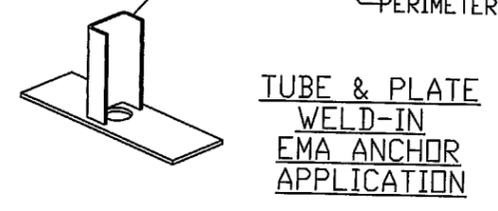
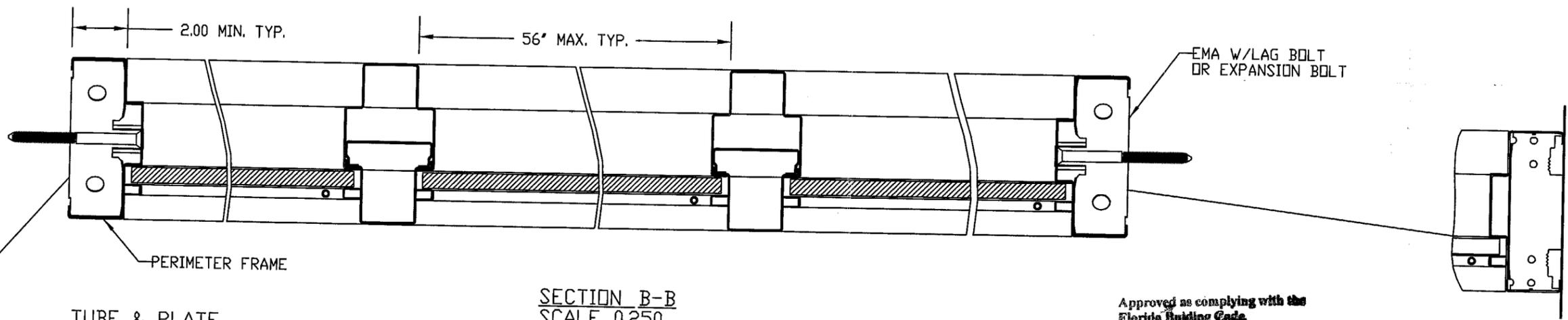
BEND RADIUS N/A	<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 452 42		
THIRD ANGLE PROJECTION DRAWN LWG DATE 03/09/04	TITLE MIAMI-DADE COUNTY APPROVED F FRAMES		
CHECKED YMF	BORROWED LITE ELEVATIONS		
APPROVED M. COLLINS	SIZE B	FLAT N/A	DWG NO. 1107W
ENG. APPVL	SCALE: 0.04	Pro/Engineer	REV D
			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 BCCD	06/02/05	



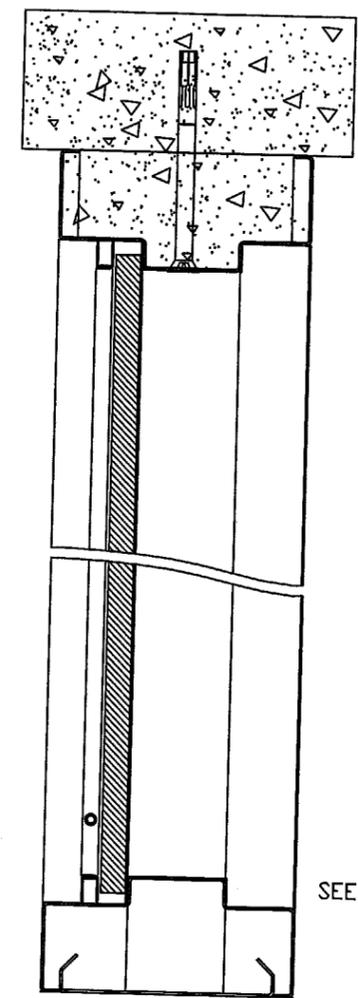
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6/26/05  
FL 46718



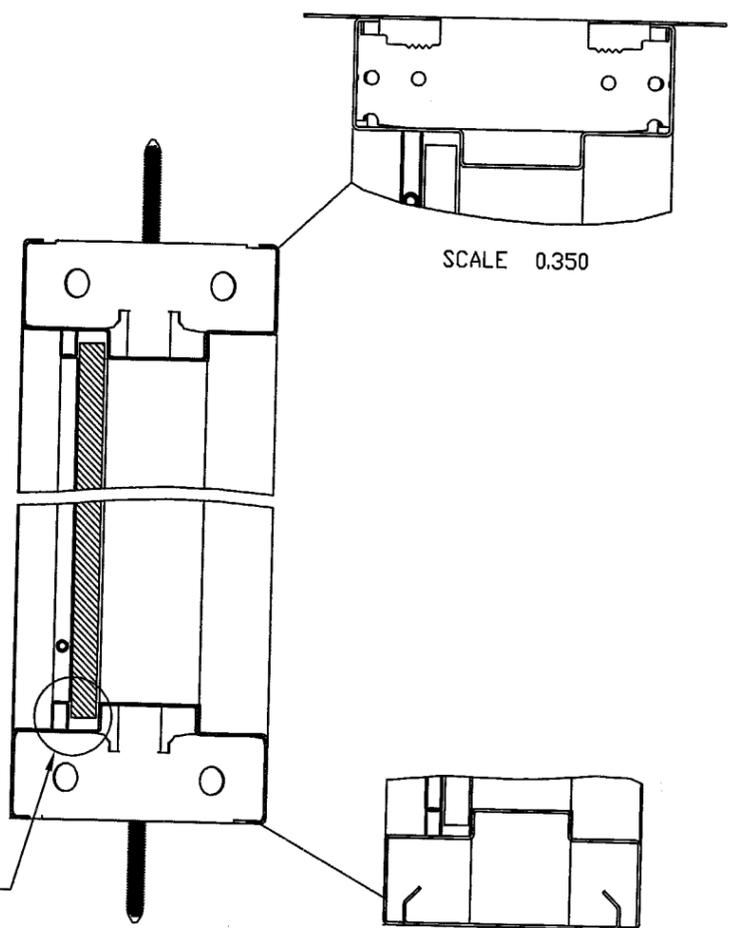
Approved as complying with the  
Florida Building Code  
Date 06/28/05  
NOA# 04-0302-01  
Miami Dade Product Control  
Division  
By M. Khakh

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			
CHECKED YMF		BORROWED LITE ELEVATIONS, HORIZONTAL CROSS-SECTION			
APPROVED M. COLLINS		SIZE B	FLAT N/A	DWG NO. 1107W	REV D
ENG. APPVL		SCALE SEE VIEWS Pro/Engineer			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

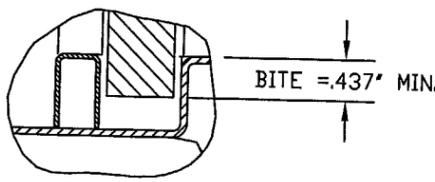


SECTION D-D  
WOOD STUD WALL  
SCALE 0.350

SCALE 0.350

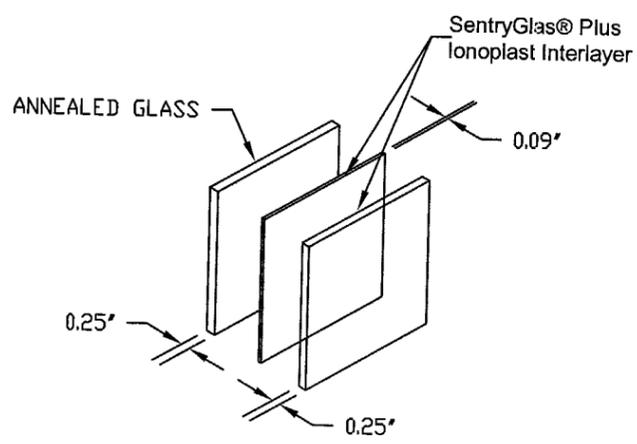
SCALE 0.350

SEE DETAIL "A"

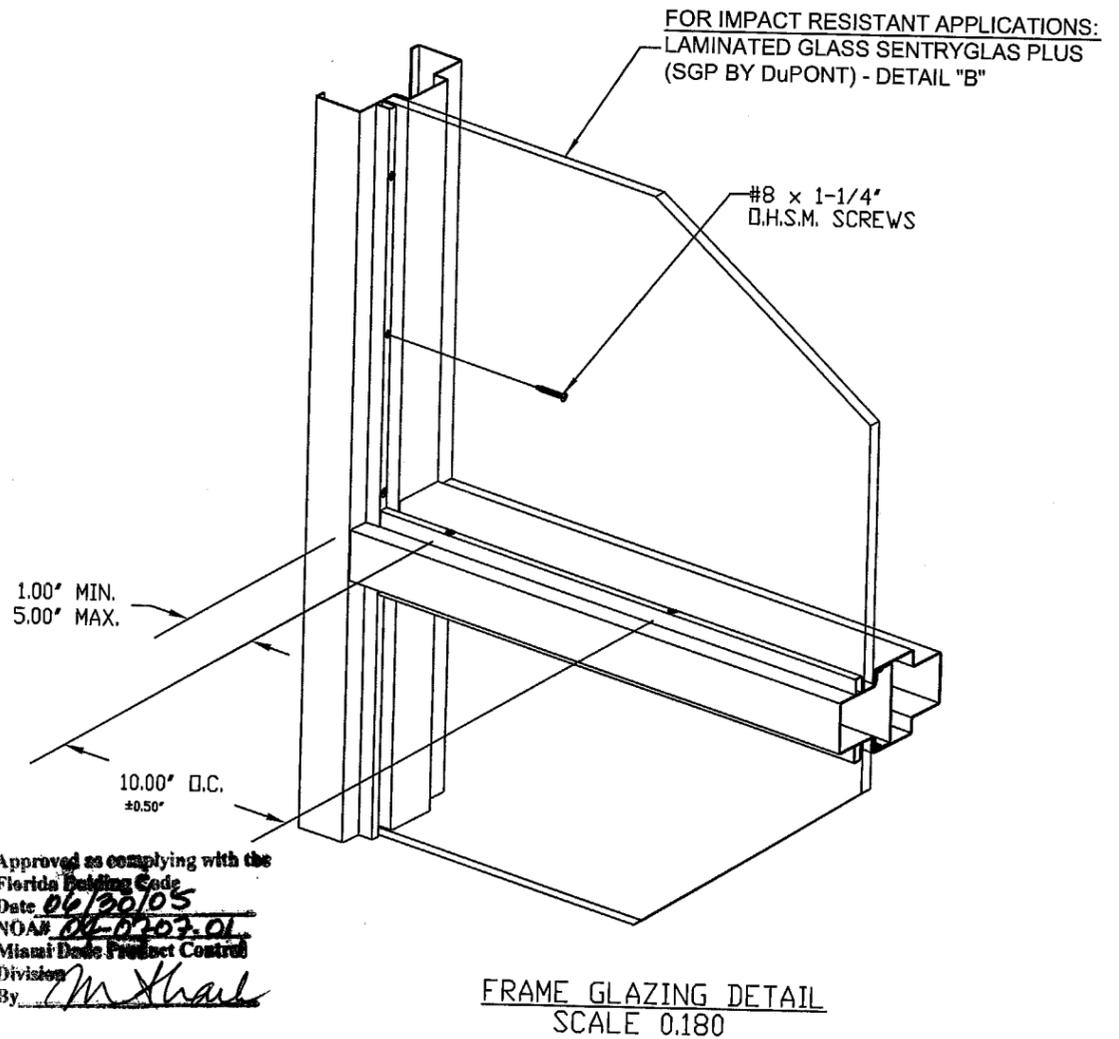


DETAIL A  
SCALE 0.750

*Handwritten signature and date:*  
M. Collins  
06/30/05  
FL 46718



DETAIL "B"  
LAMINATED GLASS CONSTRUCTION  
WITH SENTRYGLAS PLUS



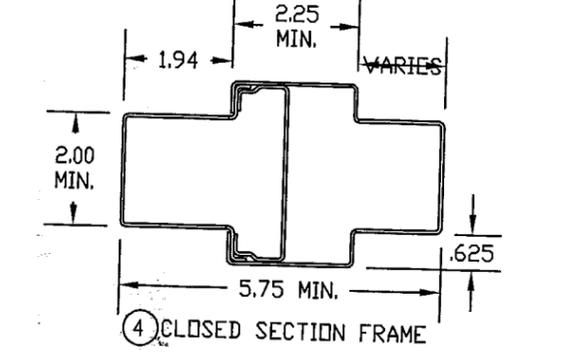
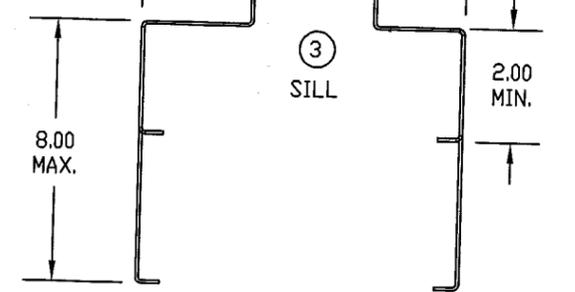
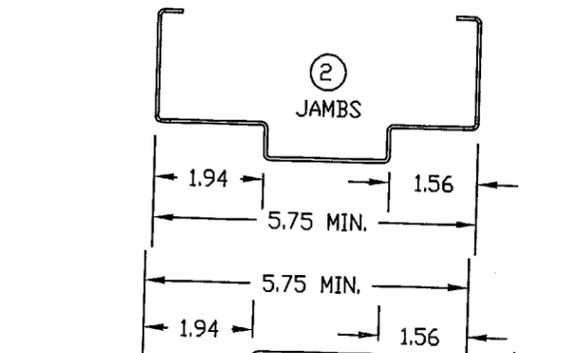
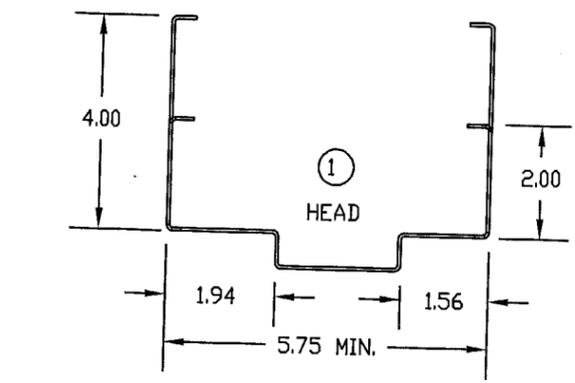
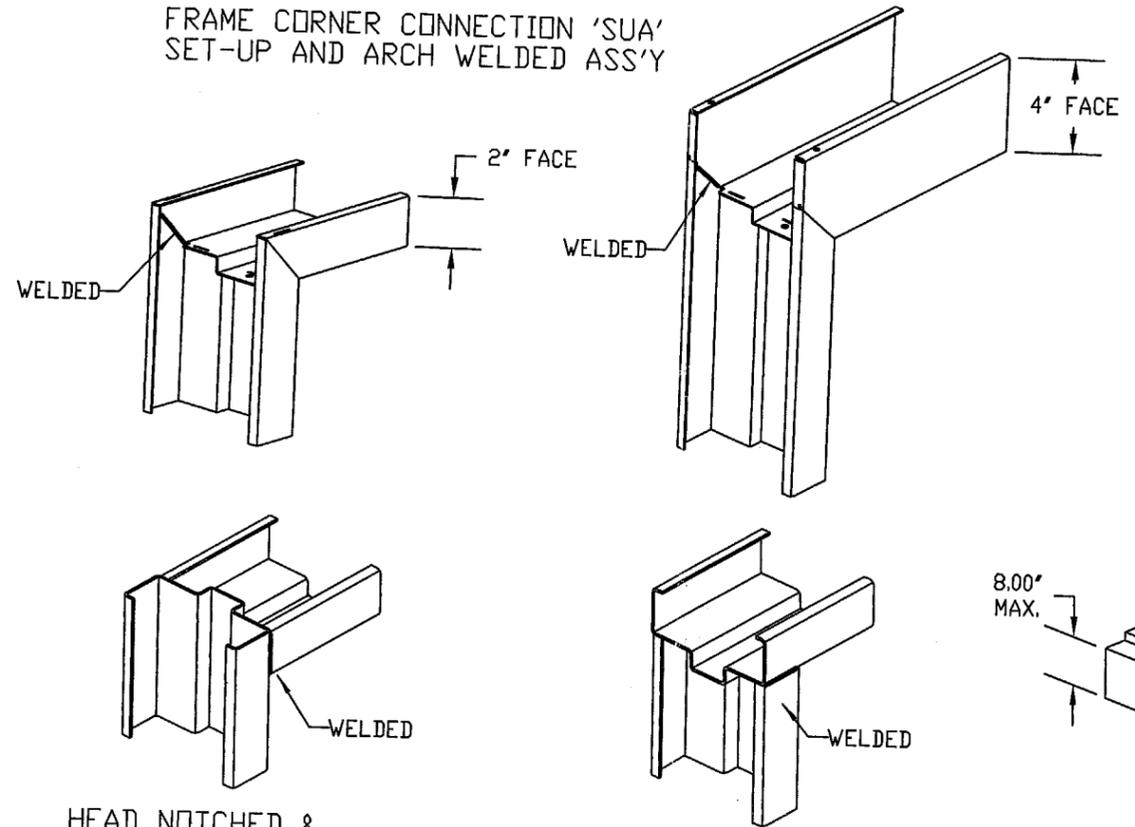
Approved as complying with the  
Florida Building Code  
Date 06/30/05  
NOA# 06-0203-01  
Miami Dade Product Control  
Division  
By M. Khalil

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
CHECKED YMF	DWG NO. 1107W	OF OF	TEST
APPROVED M. COLLINS	SCALE: Pro/Engineer	REV F	SHEET 4 OF 5
ENG. APPVL			

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



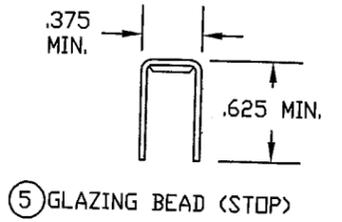
HEAD NOTCHED & BUTTED BETWEEN JAMBS

HEAD ON TOP OF NOTCHED JAMBS

FRAME SILL AND MULLION DETAIL

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

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



(5) GLAZING BEAD (STOP)

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# 04-0302.01  
 Miami Dade Product Control  
 Division  
 By: M. Khair

*[Signature]*  
 6/16/05  
 FL 46718

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

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		