MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Ingersoll Rand
6810 Hillsdale Court
Indianapolis, Indiana 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 the High Velocity Hurricane Zone.

DESCRIPTION: Series "H16-4" Full Glazed 8080 Outswing Steel Commercial Double Door-LM I

APPROVAL DOCUMENT: Drawing No **"882W"**, titled "H16-4 FG 8080 Double Doors (Outswing) Glazed Configurations", sheet 1 thru 7 of 7, prepared by manufacturer dated 08/08/02 and last revised on 04/29/08, 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

Limitations: 1. Water rating approved with threshold type **1** for single & double doors and threshold type **4** is limited to **single** doors only. Threshold types **2** & **3** are **not** rated for water infiltration.

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. **05-0325.02** and consists of this page 1 and evidences page E-1 &E-2, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY APPROVED

8
5/27/18

Ingersoll Rand

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts and sections drawings.
2. Drawing No **"882W"**, titled "H16-4 FG 8080 Double Doors (Outswing) Glazed Configurations", sheet 1 thru 7 of 7, prepared by manufacturer dated 08/08/02 and last revised on 04/29/08, signed and sealed by Gordon Thomas, P. E.

B. TESTS (transferred from file **# 05-0325.02**)

1. Test reports on 1) Water Resistant Test, per FBC, TAS 202-94 (double doors) along with marked-up drawings and installation diagram of outswing steel door, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3044-1,** dated 08/31/06, of a full glazed double steel commercial door, signed and sealed by Gerald J. Ferrara, P.E.
2. 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) Large Missile Impact Test per FBC, TAS 201-94
   4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   5) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94
   6) Water Resistant Test, per FBC, TAS 202-94 (single door)

   along with marked-up drawings and installation diagram of a full glazed double steel commercial door, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3232-1,** dated 02/24/06, signed and sealed by Gerald J. Ferrara, P.E.
3. 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) Large Missile Impact Test per FBC, TAS 201-94
   4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   5) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94

   along with marked-up drawings and installation diagram of a full glazed double steel commercial door, prepared by Certified Testing Laboratories, Test Report No. CTLA-**975W,** dated 01/23/03 and CTLA-**882W,** dated 08/29/02, both signed and sealed by Ramesh Patel, P.E.
4. Test report on (For reference only)
   1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Large Missile Impact Test per FBC, TAS 201-94
   4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   5) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94

   along with marked-up drawings and installation diagram of a full glazed double steel commercial door, prepared by Certified Testing Laboratories, Test Report No. CTLA-**776W-1,** dated 04/25/02, signed and sealed by Ramesh Patel, P.E

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 08-0508.07
Expiration Date: June 27, 2013
Approval Date: June 19, 2008

Ingersoll Rand

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS: (transferred from file **# 05-0325.02)**

1. Anchor Verification Calculations, complying w/ FBC-2004, dated 04/07/06, prepared, signed and sealed by Gordon Thomas, P. E.
2. Evaluation report for structural calculation for glazing and components dated 3/30/06 and 09/01/04 prepared, signed and sealed by Gordon Thomas, P. E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS (Transferred from file # 03-0317.02)

1. Tensile Test report No. CTLA-822W, dated 02/25/02, issued by Certified Testing lab, Inc, per ASTME-8, signed & sealed by Ramesh Patel, P.E.
2. Notice of Acceptance No. **03-1210.04** issued to G.E., for "Lexan sheet", expiring on 07/17/2008.
3. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont DeNemours, for "SentryGlasPlus", expiring on 01/14/2012.
4. Test report No. 03NK2370/R14508 dated 01/21/2003, issued by Underwriters laboratories Inc., for "surface burning characteristics of Building materials" per ASTME-84-00a and self ignition test per ASTMD 1996 for "Elfoam H200", issued to Elliot Co., Indianapolis Inc.
5. Test report No. 9691 dated 08/28/1994, issued by United Testing Co. to Huntsman Chemical Corporation for "Expanded Polystyrene EPS" for grade 86 &54 for "surface burning characteristics of Building materials" per ASTME-84-00a and self ignition test per ASTMD 1996.
6. Test report No. NER-384, re-issue dated 05/01/1994, issued by National Evaluation Service. to Huntsman Chemical Corporation for "Expanded Polystyrene EPS" for grade 86 &54 for "surface burning characteristics of Building materials" per ASTME-84-00a and self ignition test per ASTMD 1996.

F. STATEMENTS

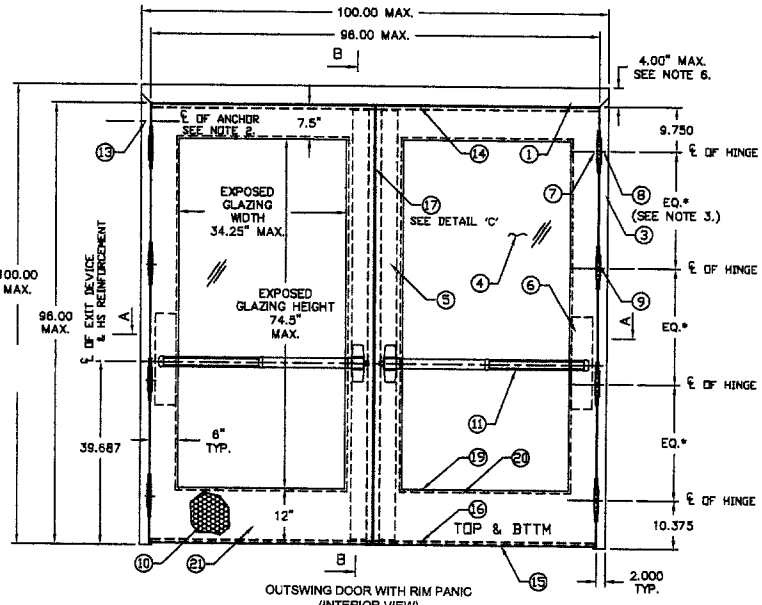
1. Letter of conformance & "No financial interest" dated April 30, 2008, signed and sealed by Gordon Thomas, P. E.
2. Laboratory Statement of compliance, part of the above referenced test reports.

G. OTHER

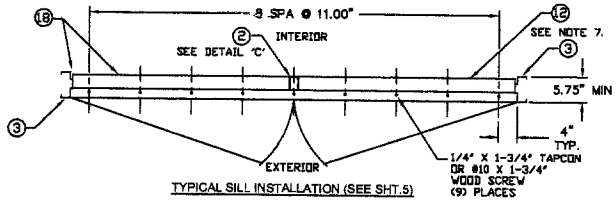
1. This NOA **renews** NOA # **05-0325.02**, expiring June 27, 2008.
2. Test proposal # 04-0177 approved by BCCO.
3. Reference Test proposal 01-0131, dated August 03, 2001 approved by BCCO.

Ishaq I. Chanda

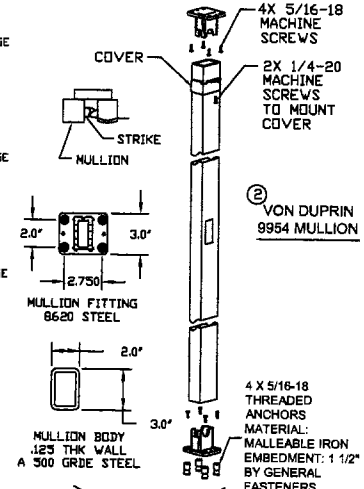
Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 08-0508.07
Expiration Date: June 27, 2013
Approval Date: June 19, 2008

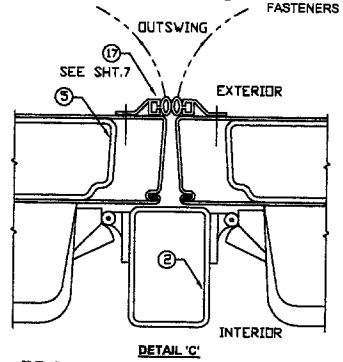


OUTSWING DOOR WITH RIM PANIC
(INTERIOR VIEW)
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE



TYPICAL SILL INSTALLATION (SEE SHT.5)





DETAIL 'C'

DESIGN PRESSURE RATING	
WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
APPROVED FOR WATER INFILTRATION WITH THRESHOLD TYPE 1 & 4* ONLY AND ADDITIONAL WEATHERSTRIPPING PER SHT.7	THRESHOLD TYPES 2 & 3 NOT APPROVED FOR WATER INFILTRATION
POSITIVE	+ 50 PSF
NEGATIVE	− 50 PSF
* − FOR SINGLE DOORS ONLY	

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWGS.	08/08/02	
G	REVISED PER MDBCCD YMF	06/09/06	

4/29/08
FL 46718

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD SEE SHT 6 ASTM A366	.053" MIN. STL	MAX. 100"
2	1	VON DUPRIN 9954 HDWE MULLION USED W/RIM HDWE	.125" A500 STL	MAX. 96"
3	2	HINGE JAMB SEE SHT 6 ASTM A366	.053" MIN. STL	MAX. 100"
4	2	LEXAN 9034 BY GE, HOLDING CURRENT NOA	.25" MIN.	35.406" X 75.656" MAX.
		LAMINATED GLASS WITH SENTRYGLAS PLUS (DuPont)	.562" MIN.	
		SUPERLITE II-XL BY SAFTI WITH SENTRYGLAS PLUS (DuPont)	1.0" MIN.	
5	2	LOCK SIDE REINFORCEMENT CHANNEL	.099" MIN. STL	3.5 X 93.44 MAX
6	2	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"
7	NOTE 3.	HINGE REINFORCEMENT DOOR ASTM A621	.171" MIN. STL.	1.28" X 9.19"
8	NOTE 3.	HINGE REINFORCEMENT FRAME ASTM A621	.171" MIN. STL.	1.3" X 8.187" MAX.
9	NOTE 3.	4.5" X 4.5" BUTT HINGES (SEE SHT.4)	.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE (SEE SHT.4)	.067" MIN. STL/.12 ALUM	MAX. 95"
10	2	CORE MATERIAL (SHEET 5): A) HONEYCOMB B) STEEL STIFFENED C) POLYSTYRENE D) POLYURETHANE E) MINERAL BOARD TEMPERATURE RISE CORE		
11	2	LOCKING HARDWARE – EXIT DEVICE		
		1) VON DUPRIN 98/99 RIM		
		2) VON DUPRIN 88 RIM		
		3) MONARCH DL-18-R RIM		
12	1	THRESHOLD SILL W/BUMPER GASKET	.100" ALUM. 6063 T5	5.50"X0.5"X96"MAX.-DOUBLE 5.50"X0.5"X48"MAX.-SINGLE
		1) ZERO 566A 2) PEMKO 2005		
		3) NAT'L GUARD 950A 4) PEMKO 2001 (SNGLE DOORS)		
13	NOTE 2.	JAMB ANCHOR ASTM A924	SEE SHEET 5	
14	6	PS074 WEATHER STRIPPING	TPE	MAX. 24'
15	2	FAS-SEAL DOOR SWEEP	TPE	MAX. 47.66"
16	4	END CHANNEL ASTM A924 (14 GA – INVERTED)		.69" X 1.66" X 47.66" MAX.
17	2	SPLIT ASTRAGAL	SEE SHEET 7	
18	AS NEEDED	BUTYL RUBBER OR 100% SILICONE		
19	2	GLAZING HOLDING TRIM		34.25" X 74.5" EXPOSED GLASS MAX.
		1) DEZIGNER TRIM	.035" MIN. STL	
		2) STEEL OVERLAPPING TRIM UP TO 3/4" GLASS		
		3) STEEL OVERLAPPING TRIM FOR OVER 3/4" GLASS		
		4) HIGH SECURITY VISION FRAME SG-10 BY ANEMOSTAT	.099" MIN. STL.	
		VLF-S10 BY AIR LOUVERS	.127" MIN. STL.	
20	NOTE 10.	CUTOUT REINFORCEMENT CHANNEL (18 GA)	.047" MIN. STL	0.5" X 1.5" X 64.063" MAX.
21	2	DOOR SLAB (16 OR 14 GA)	SEE SHEET 4	4' X 8' MAX.
22	1	BY ZERO INT'L – DOOR SEAL No.8144FS (SEE NOTE 15)	TPE	MAX. 24'
		BY PEMKO – DOOR SEAL No.S88		
23	4	BY ZERO INT'L – DOOR SWEEP No.539	TPE	MAX. 96"
		BY PEMKO – EDGE SEAL No.368		
24	2	BY ZERO INT'L – DOOR SWEEP No.139	SEE SHEET 7	MAX. 48"
		BY PEMKO – OMIT		
25	2	BY ZERO INT'L – ADJUSTABLE STOP No.475	TPE	MAX. 48"
		BY PEMKO – EDGE SEAL No. 29310		
26	2	BY ZERO INT'L – RAIN DRIP No.11	SEE SHEET 7	MAX. 48"
		BY PEMKO – DOOR BOTTOM CAP No. 346		
27	2	TOP CAP GALV. A60 ASTM A924 (NOTE 15)	.024" MIN. STL	0.5" X 1.719" X 47.66" MAX.

NOTES:
1. W[illegible] STRIPPING
- [illegible]ATER INFILTRATION IS NOT NEEDED INSTALL WEATHERSTRIPPING PER SHT.6.
T[illegible] [illegible]WS OF PS074 WEATHERSTRIPPING PER JAMB AND HEAD.
- WHEN WATER INFILTRATION IS REQUIRED - INSTALL PER SHT.7.
2. ANCHOR REQUIREMENTS: SEE SHEET 5 FOR APPROVED ANCHORS AND INSTALLATION
3. HINGE REQUIREMENTS:
FOR DOOR OPENING UP TO 7'6" HIGH - MIN (3) HINGES
FOR DOOR OPENING 7'7" - 8'0" HIGH - MIN (4) HINGES
LOCATIONS: 9.75" FROM RABBET IN HEAD TO CL OF TOP HINGE
10.38" FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED IN BETWEEN.
4. SEE SHEET 4 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
5. HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS, AS APPROVED PER THIS NOA.
6. 4" FACE HEAD IS AVAILABLE.
7. APPLY CAULK AS NEEDED.
8. SEE SHEET 2 FOR SECTION A-A, SEE SHEET 3 FOR SECTIONS B-B AND C-C.
9. DOOR-LITE AVAILABLE CONFIGURATIONS: FG, FG2, FG3, G, V, N, N3, N4, LNL (SEE SHEET 4.)
10. INSTALL REINFORCEMENT CHANNELS AROUND EACH LITE-CUTOUT.
11. PANIC HARDWARE OPTIONS:
FOR 98/99 SERIES - FUNCTIONS E, RX, LX, SS, EL, CX, F
TRIMS: 990EO, 990DT, 990NL, 990TP, 992L, 994L, 991K
FOR 88-F SERIES - FUNCTIION E
TRIMS: 880DT, 880NL, 880TP, 880K, 373L
12. PN MODEL OFFERED.
13. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
14. OPTIONAL "SIGNAL SWITCH" MAY BE USED AS ALLOWED BY CODE AND IT DOES NOT EFFECT THE MECHANICAL PROPERTIES OF EXIT DEVICE AND/OR INHIBIT EGRESS.
15. ITEMS 22 THROUGH 27 REQUIRED ONLY IF WATER INFILTRATION IS NEEDED.

PRODUCT RENEWED
as complying with the Florida
Buiding Code
Acceptance No 08-0508.07
Expiration Date JUNE 7, 2013
By [illegible]
Miami Dade Product Control
Division

BEND RADIUS

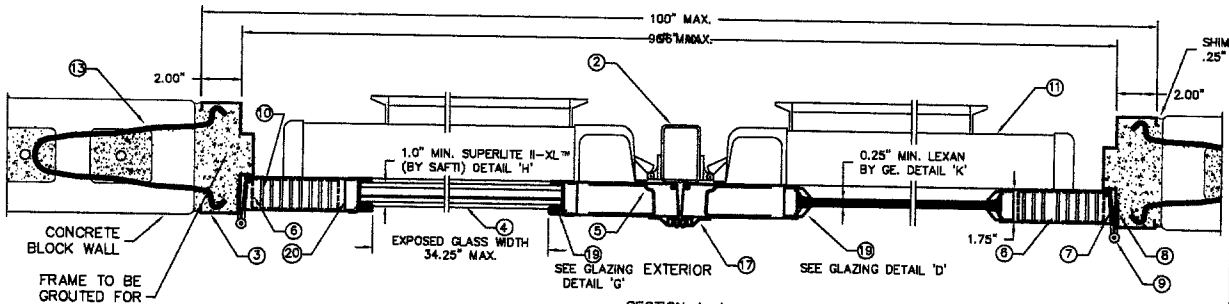
THIRD ANGLE PROJECTION

DRAWN YMF	DATE 08/08/02
CHECKED	
APPROVED	
ENG. APPVL	

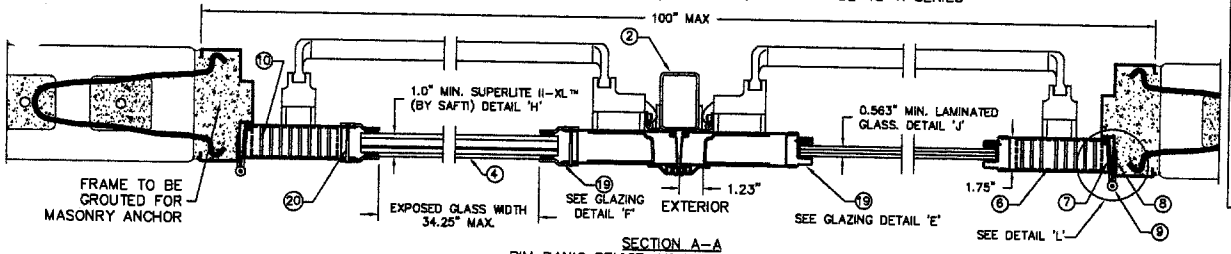
INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 BlueAsh Rd. Cincinnati Ohio 45242

TITLE DADE COUNTY
H16 - 4 FG 8080 DOUBLE DOORS (OUTSWING)
GLAZED CONFIGURATIONS
INCLUDING FIRE RATED GLAZING
IR EXIT HARDWARE

SIZE	FLAT	DWG NO. 882W	SHEET 1 OF 7	REV G
SCALE NTS	AUTOCAD		SHEET OF	



SECTION A-A
RIM PANIC DEVICE. VON DUPRIN 98/99 SERIES, MONARCH DL-18-R SERIES



SECTION A-A
RIM PANIC DEVICE. VON DUPRIN 88 SERIES

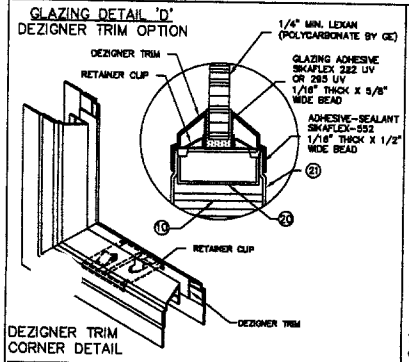
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWGS.	08.08.02	
G	REVISED PER DC BCCO YMF	06/09/06	

GLAZING OPTIONS AND METHODS

GLAZING MATERIAL	TRIM TYPE	ADHESIVE-SEALANT	GLAZING ADHESIVE
LEXAN BY GE 1/4" OR 1/2" DETAILS 'D' & 'E'	DEZIGNER 1/2" OR 1/4"	SIKAFLEX 552	SIKAFLEX 222UV OR 295UV 1/16" X 5/8" BEAD
	STEEL TRIM	NONE	
9/16" LAMINATED GLASS WITH SENTRYGLAS PLUS™ INTERLAYER (BY DUPONT) DETAILS 'J' & 'K'	DEZIGNER 1/2"	SIKAFLEX 552	SIKAFLEX 552 OR DOW CORNING 995/975 1/16" X 5/8" BEAD
	STEEL TRIM	NONE	
SUPERLITE II-XL™ BY SAFTI WITH SENTRYGLAS PLUS™ INTERLAYER (BY DUPONT) DETAILS 'F', 'G' & 'H'	1" STEEL TRIM (DETAIL 'G')	NONE	SIKAFLEX 552 OR DOW CORNING 995/975 1/16" X 5/8" BEAD
	SECURITY VISION FRAME SG-10 BY ANEMOSTAT OR VLF-S10 BY AIR LOUVERS (DETAIL 'F')	NONE	

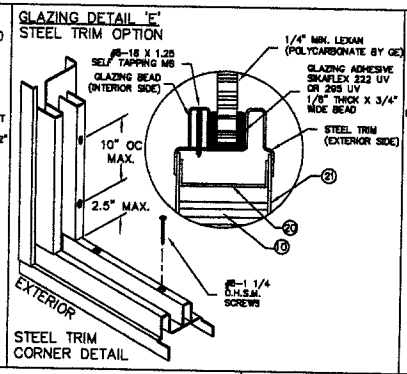
4/29/08
FL46718

GLAZING DETAIL 'D'
DEZIGNER TRIM OPTION



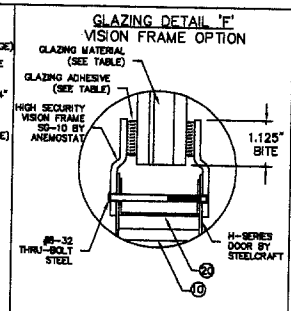
DEZIGNER TRIM CORNER DETAIL

GLAZING DETAIL 'E'
STEEL TRIM OPTION



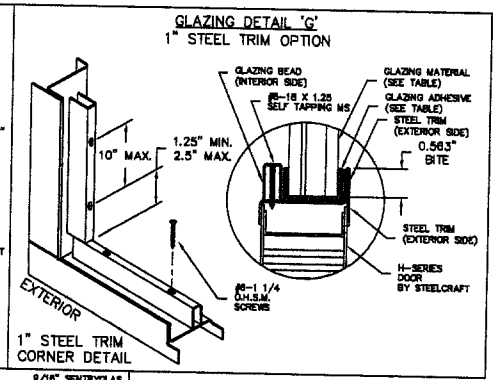
STEEL TRIM CORNER DETAIL

GLAZING DETAIL 'F'
VISION FRAME OPTION



SECURITY VISION FRAME SG-10 BY ANEMOSTAT ORVLF-S10 BY AIR LOUVERS

GLAZING DETAIL 'G'
1" STEEL TRIM OPTION

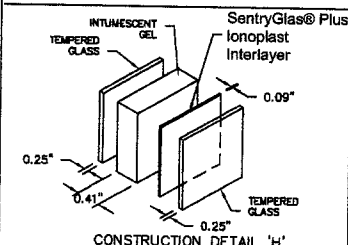


1" STEEL TRIM CORNER DETAIL

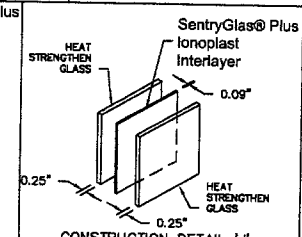
NOTES:

1. SEE SHT.1 FOR ELEVATION, MATERIAL AND SIZE
2. SEE SHT.1 NOTE 2. FOR ANCHOR REQUIREMENTS
3. SEE SHT. 5 FOR WALL CONSTRUCTION AND ANCHORING SYSTEM
4. SEE SHT. 4 FOR AVAILABLE OPENING SIZES, JAMB DEPTHS AND SPECIFICATIONS
5. APPROVED HARDWARE INSTALLATION IS PER MANUFACTURER'S INSTRUCTIONS

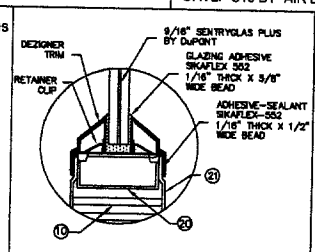
PRODUCT RENEWED
as complying with the Florida
Buiding Code
Acceptance No 08-0508.07
Expiration Date JUNE 27, 2013
By Shaq I. Chanda
Miami Dade Product Control
Division

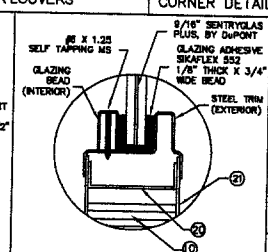


CONSTRUCTION DETAIL 'H'
SUPERLITE II-XL™ (BY SAFTI) WITH SENTRYGLAS PLUS™ INTERLAYER (BY DuPONT)



CONSTRUCTION DETAIL 'J'
LAMINATED GLASS WITH SENTRYGLAS PLUS™ INTERLAYER (BY DuPONT)





GLAZING DETAIL 'K'
LAMINATED GLASS

BEND RADIUS

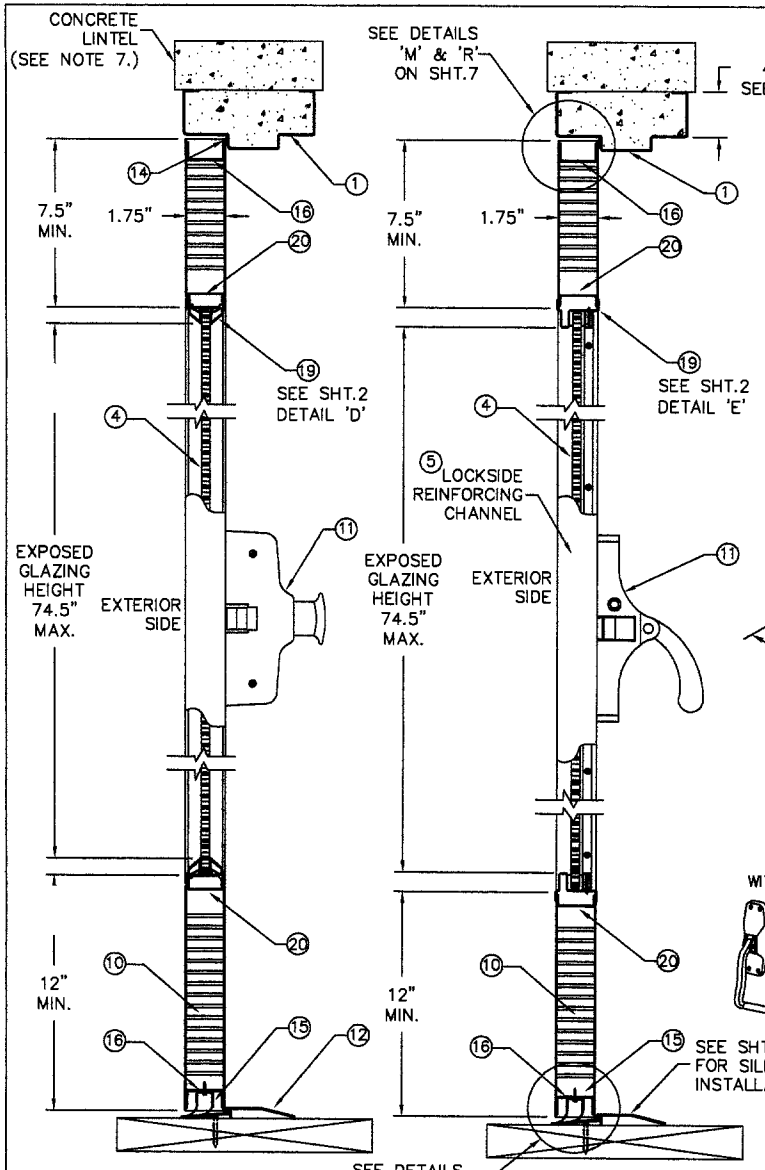
THIRD ANGLE PROJECTION

DRAWN	YMF	DATE 08.08.02
CHECKED		
APPROVED		
ENG. APPVL		

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 Blue Ash Rd. Cincinnati Ohio 45242

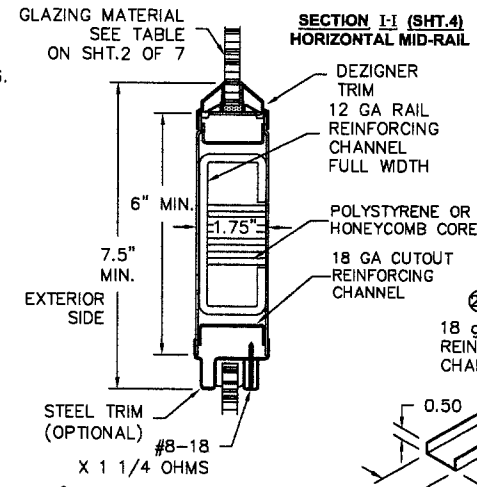
TITLE DADE COUNTY
CROSS SECTION OF DOOR AND FRAME
IR RIM EXIT HARDWARE
H-SERIES FG 8080 DOUBLE OPENING
FULL GLASS CONFIGURATION

SIZE	FLAT	DWG NO. 882W	SHEET 2 OF 7	REV G
SCALE: NTS	AUTOCAD			

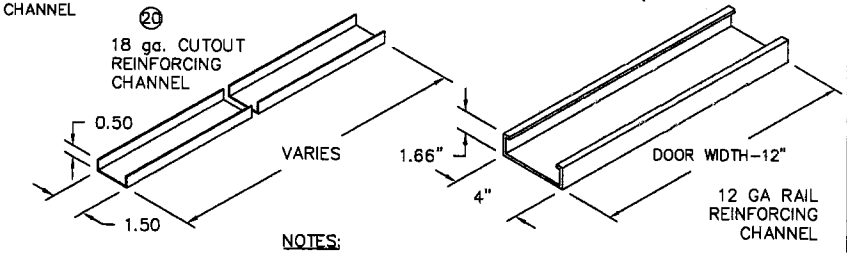


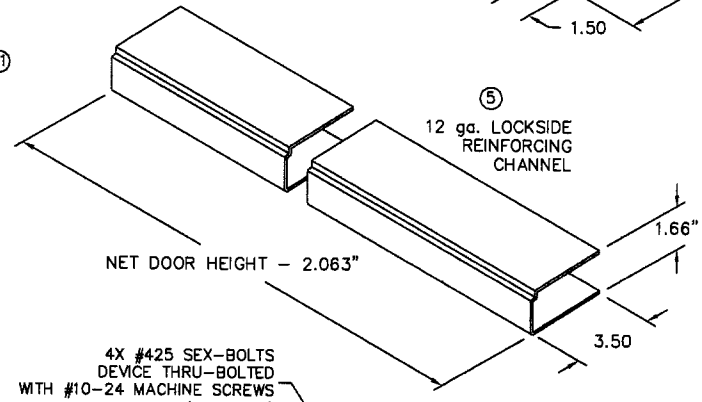
SECTION B–B
RIM PANIC DEVICE
VON DUPRIN 98/99
MONARCH DL–18–R

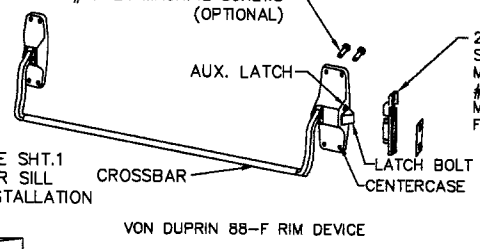
SECTION B–B
RIM PANIC DEVICE
VON DUPRIN 88 SERIES



SECTION I-I (SHT.4)
HORIZONTAL MID-RAIL







VON DUPRIN 88–F RIM DEVICE

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWGS.	08/08/02	
F	REVISION DWG YMF	03/02/06	

4/29/08
FL 46718

NOTES:

1. SEE SHT.1 FOR ELEVATION, MATERIAL AND SIZE.
2. SEE SHT.1 NOTE 2. FOR ANCHOR LOCATIONS.
3. SEE SHT. 5 FOR WALL CONSTRUCTION AND ANCHORING REQUIREMENTS.
4. SEE SHT. 4 FOR AVAILABLE OPENING SIZES, JAMB DEPTHS AND SPECIFICATIONS.
5. APPROVED HARDWARE INSTALLATION IS PER MANUFACTURER'S INSTRUCTIONS
6. HEAD SECTION CAN HAVE 4" FACE DIMENSION.
7. WALL CONSTRUCTION STRUCTURAL MEMBERS MUST COMPLY WITH APPROVED DESIGN PRESSURE RATING.

PRODUCT RENEWED
as complying with the Florida Buiding Code
Acceptance No 08-0508.07
Expiration Date JUNE 27, 2013
By Shaq I. Chanda
Miami Dade Product Control Division

BEND RADIUS

THIRD ANGLE PROJECTION

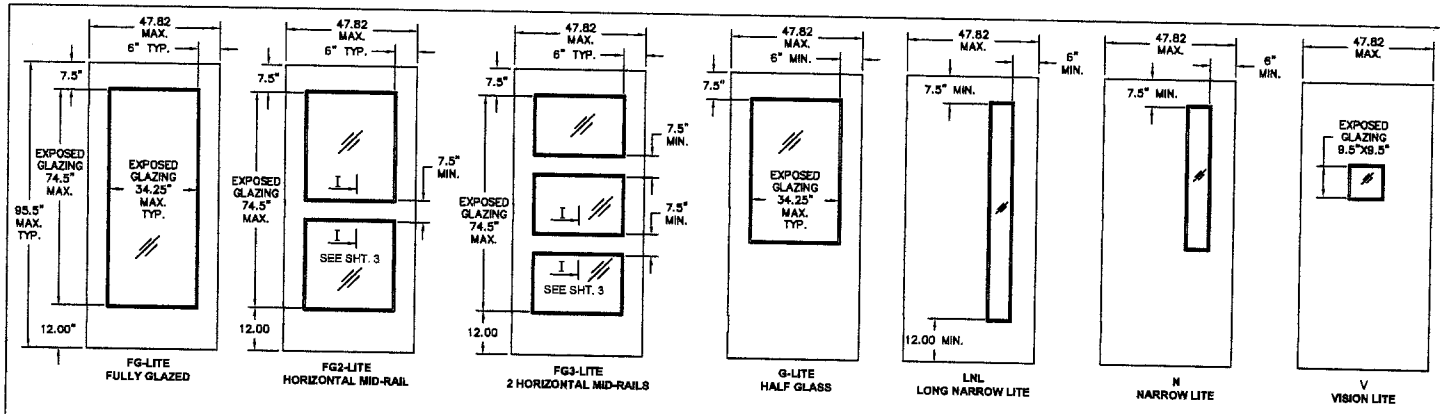
DRAWN	DATE
YMF	08/08/02
CHECKED	
APPROVED	
ENG. APPVL	

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 BlueAsh Rd. Cincinnati Ohio 45242

TITLE DADE COUNTY
CROSS SECTION OF DOOR AND FRAME
IR EXIT HARDWARE
H–SERIES FG 8080 DOUBLE DOORS

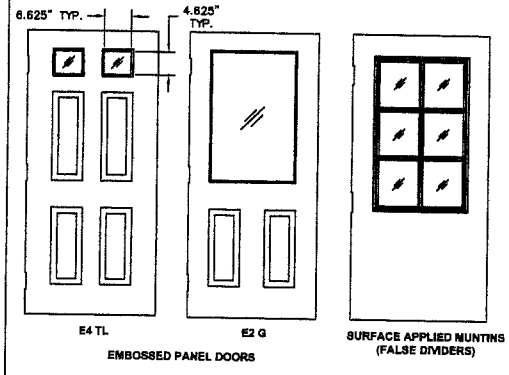
SIZE	FLAT	DWG NO.	SHEET	REV
		882W	3 OF 7	F

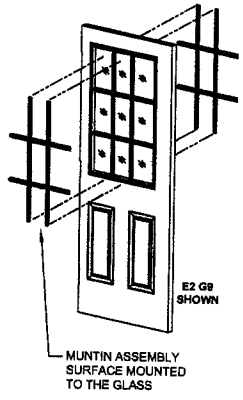
SCALE: NTS AUTOCAD

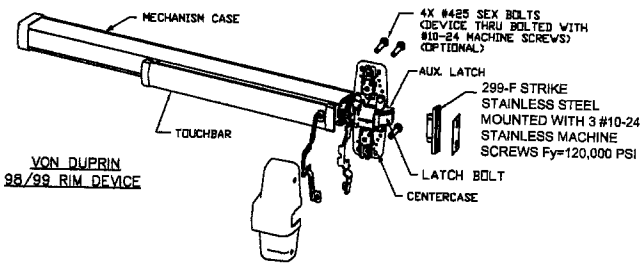


REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG		
B	REVISED PER DC BCCO EB	02/27/03	
C	REVISED PER DC BCCO YMF	05/08/03	
D	REVISED PER DC BCCO YMF	05/29/03	
E	REVISION DWG YMF	01/06/05	
F	REVISION DWG YMF	02/28/06	

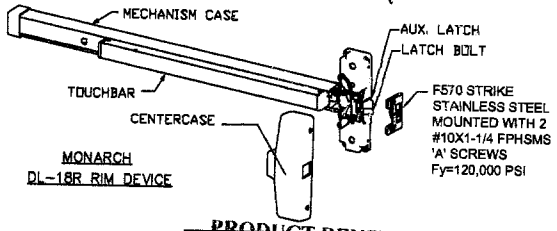
4/29/08
FL 46718







VON DUPRIN
98/99 RIM DEVICE



MONARCH
DL-18R RIM DEVICE

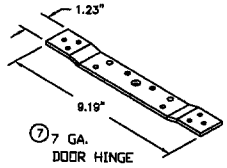
PRODUCT RENEWED
as complying with the Florida
Buiding Code
Acceptance No 08-0508.07
Expiration Date JUNE 27, 2013
By Ishaq I. Chande
Miami Dade Product Control
Division

AVAILABLE DOOR CONFIGURATIONS
(SEE NOTE 1.)

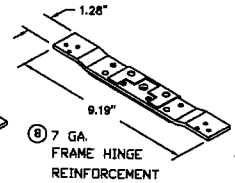
TABLE 1.

CORE MATERIAL PER SHT.7	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	GA./MIN. THK
K COMB P 'RENE POL .ETHANE	8'0"	8'0"	CRS GALV	16/.053" 14/.067"
HONEYCOMB POLYSTYRENE POLYURETHANE	8'0"	8'0"	STAINLESS STEEL	16/.053"

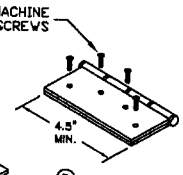
MINIMUM YIELD STRENGTH = 30,100 PSI
MINIMUM TENSILE STRENGTH = 44,700 PSI



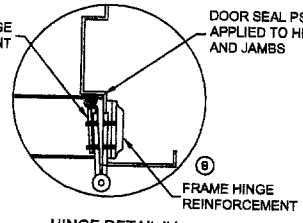
⑦ 7 GA.
DOOR HINGE
REINFORCEMENT



⑧ 7 GA.
FRAME HINGE
REINFORCEMENT



⑨ BUTT HINGE
4.5" X 4.5" STD. WT. (.134" MIN.)
IVES 5BB1/3CB1
HAGER 1279
STANLEY F179/1900



HINGE DETAIL 'L'

NOTES:
1. DOOR CONSTRUCTION
1.1. MINIMUM DOOR THICKNESS – 1 3/4"
1.2. MAXIMUM GLAZING HEIGHT AND WIDTH AS PER SHEET 1.
1.3. MAXIMUM GLAZING OPENING SIZE WILL CHANGE IN PROPORTION WITH DOOR SIZE.
1.4. MAXIMUM DOOR SIZE MAY VARY, SUBJECTED TO COMPLIANCE WITH FLORIDA BUILDING CODE AND PRODUCT AVAILABILITY FROM MANUFACTURER.
2. FRAME CONSTRUCTION
1.1. MINIMUM JAMB DEPTH – 5 3/4", STOP HEIGHT – 5/8"
2.2. FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULT-USE (MU-SERIES) (SEE TABLE.2)
3. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 3.

AVAILABLE FRAME CONFIGURATIONS
(SEE NOTE 2.)

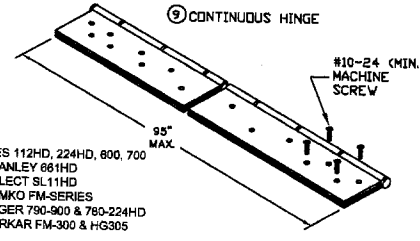
TABLE 2.

FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
				STAINLESS STEEL	16/.053"
MU	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067"

MINIMUM YIELD STRENGTH = 26,500 PSI
MINIMUM TENSILE STRENGTH = 46,000 PSI

TABLE 3.

CRS ASTM A1008
HRS ASTM A1011
GALV: A60 ASTM A924
STL: 304,306 ASTM A240



IVES 112HD, 224HD, 600, 700
STANLEY 661HD
SELECT SL11HD
PEMKO FM-SERIES
HAGER 790-900 & 780-224HD
MARKAR FM-300 & HG305

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN YMF	DATE 08/08/02
CHECKED	
APPROVED	
ENG. APPVL	

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 BlueAsh Rd. Cincinnati Ohio 45242

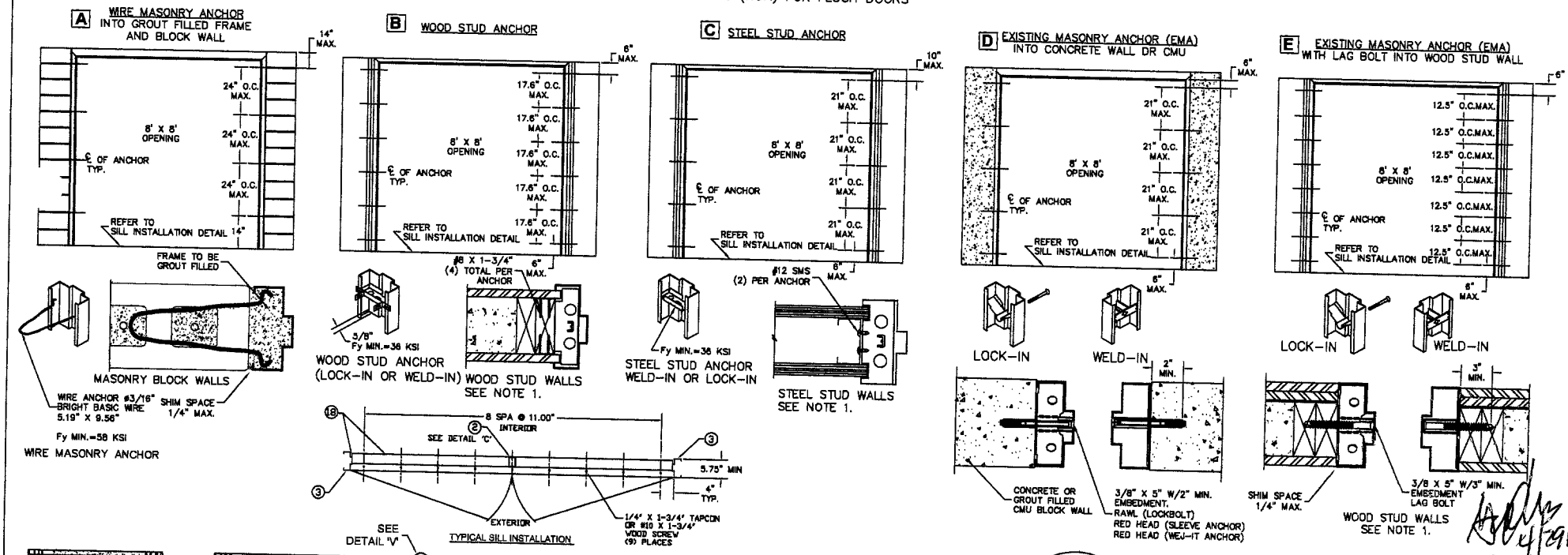
TITLE DADE COUNTY
DOOR AND FRAME
CONFIGURATIONS
AND MATERIAL SPECS.

SIZE	FLAT	DWG NO. 882W	SHEET 4 OF 7	REV F
SCALE: NTS	AUTOCAD			

NOTES:

1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 210 #/ft. LOAD, AND SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. CORE MATERIAL SHOWN WITHOUT DOOR CUTOUTS AND REINFORCEMENTS.
4. APPLY CAULK AS NEEDED.
5. ALL DOOR CORE OPTIONS ARE APPROVED UNDER SEPARATE MIAMI-DADE COUNTY APPROVALS (NOA) FOR FLUSH DOORS

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
G	REVISED PER DC BCCO YMF	07/21/06	



(A) POLYSTYRENE
EXPANDED POLYSTYRENE FOAM GRADES 54 AND 86
DENSITY: 1.0 LB/CUFT

(B) POLYURETHANE
ELFOAM H200
DENSITY: 2.0 LBS/CUFT

(C) STEEL STIFFENED
HAT SHAPED SECTIONS 20 GA. MIN. WELDED 6" O.C. TO INSIDE OF FACE SHEETS. HAT SHAPED STIFFENERS TO BE WELDED TOGETHER AT TOP AND BOTTOM (DETAIL 'V')

(D) HONEYCOMB
KRAFT PAPER. 1.2" CELL SIZE

(E) TEMPERATURE RISE CORE
MINERAL AND FIBER BOARD
DENSITY: 17 ± 1.5 LBS/CUFT

PRODUCT RENEWED
as complying with the Florida Buiding Code
Acceptance No 06-0508.07
Expiration Date JUNE 27, 2013
By Ishaq I. Chanda
Miami Dade Product Control Division

4/29/08
FL 6710

BEND RADIUS
THIRD ANGLE PROJECTION

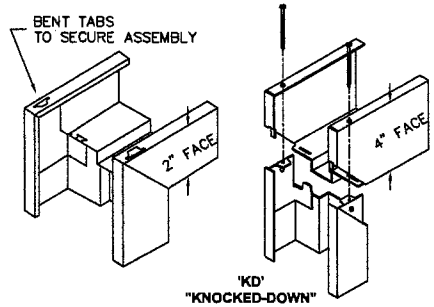
DRAWN YMF	DATE 01/10/02
CHECKED	
APPROVED	
ENG. APPVL	

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 BlueAsh Rd. Cincinnati Ohio 45242

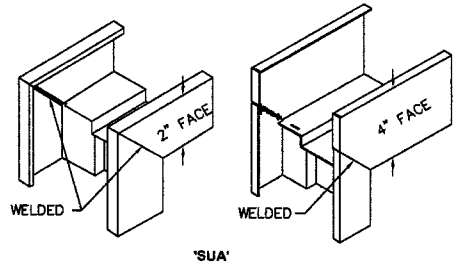
TITLE DADE COUNTY
ANCHOR DETAILS / MOUNTING CONDITIONS
CORE OPTIONS

SIZE FLAT | DWG NO. 882W | SHEET 5 OF 7 | REV G
SCALE: NTS | AUTOCAD

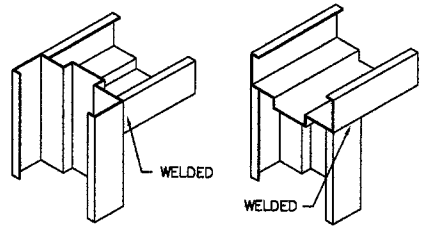
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	RELEASE TO SHOP		
F	REVISED PER DC BCCO YMF	06/09/06	



'KD'
"KNOCKED-DOWN"
ASSEMBLY

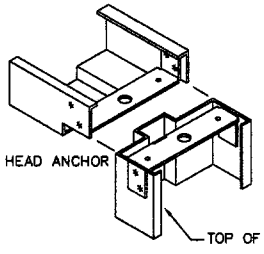


'SUA'
SET-UP AND ARC-WELDED
ASSEMBLY

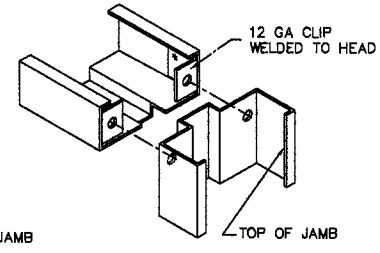


HEAD NOTCHED
AND BUTTED BETWEEN JAMBS

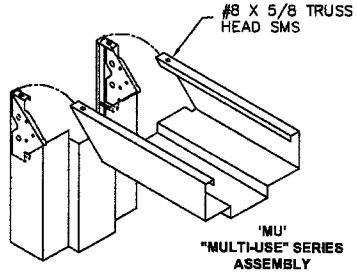
HEAD SITS ON TOP
OF NOTCHED JAMBS



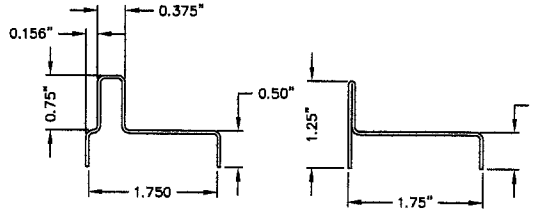
HEAD NOTCHED
AND BOLTED ON TOP OF JAMBS



HEAD NOTCHED
AND BOLTED BETWEEN JAMBS

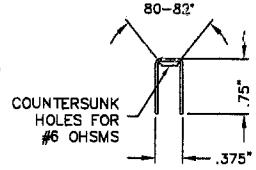


'MU'
"MULTI-USE" SERIES
ASSEMBLY

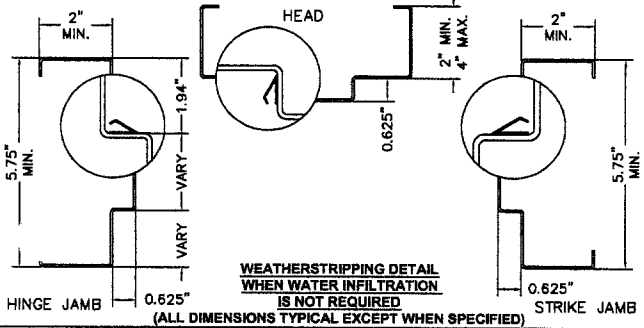


STEEL TRIM
MATERIAL: 20GA A40 STEEL

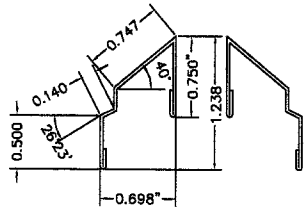
1" STEEL TRIM
MATERIAL: 20 GAGE A40 STEEL



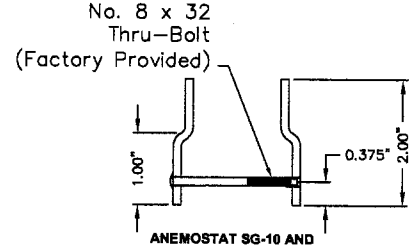
GLAZING BEAD FOR
STEEL OVERLAPPING
TRIMS
20 GAGE A40 STL



WEATHERSTRIPPING DETAIL
WHEN WATER INFILTRATION
IS NOT REQUIRED
(ALL DIMENSIONS TYPICAL EXCEPT WHEN SPECIFIED)



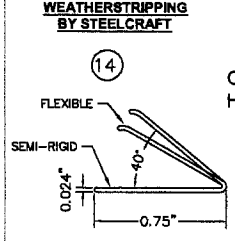
DEZIGNER TRIM
PROFILE
MATERIAL: 24 GA A40 STEEL



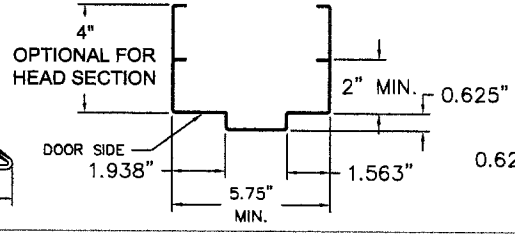
ANEMOSTAT SG-10 AND
AIR LOUVERS VLF-S10
HIGH SECURITY
METAL VISION FRAME
MATERIAL: 12 GAGE OR 10 GAGE

PRODUCT RENEWED
as complying with the Florida
Buiding Code
Acceptance No 08-0508.07
Expiration Date JUNE 27, 2013
By Ishaq I. Chanda
Miami Dade Product Control
Division

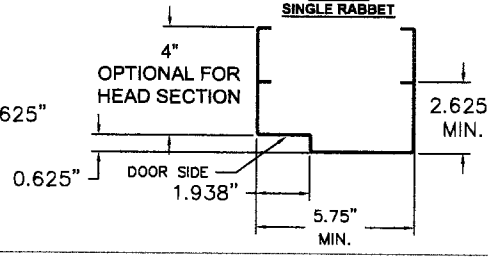
PS-074
SELF-ADHESIVE
WEATHERSTRIPPING
BY STEELCRAFT



TYPICAL FRAME
PROFILE
DOUBLE RABBET



OPTIONAL FRAME
PROFILE
SINGLE RABBET



BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN	YMF	DATE 08/08/03
CHECKED		
APPROVED		
ENG. APPVL		

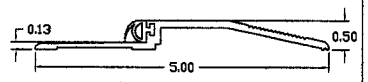
INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 BlueAsh Rd. Cincinnati Ohio 45242

TITLE: DADE COUNTY
CORNER DETAILS
AND WEATHERSTRIPPING ATTACHMENT
FOR FLUSH AND MU FRAMES
GLAZING TRIM PROFILE

SIZE	FLAT	DWG NO. 882W	SHEET 6 OF 7	REV F
SCALE: NTS	AUTOCAD			

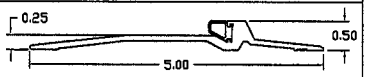
THRESHOLD OPTIONS

TYPE 1



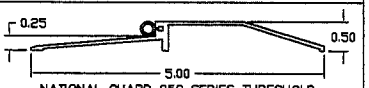
ZERO INT'L 566 SERIES THRESHOLD APPROVED FOR WATER INFILTRATION REQUIREMENT, SINGLE OR DOUBLE DOORS

TYPE 2



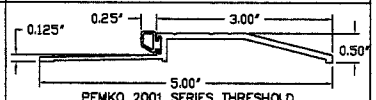
PEMKO 2005 SERIES THRESHOLD WITH SILICONE, VINYL OR PILE SEAL

TYPE 3



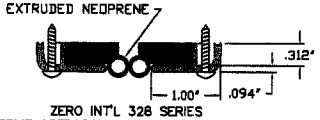
NATIONAL GUARD 950 SERIES THRESHOLD WITH SILICONE, VINYL OR NEOPRENE BUMPER

TYPE 4

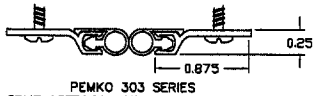


PEMKO 2001 SERIES THRESHOLD APPROVED FOR WATER INFILTRATION REQUIREMENT FOR SINGLE DOORS

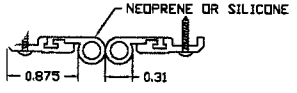
SPLIT ASTRAGAL OPTIONS



ZERO INT'L 328 SERIES SPLIT ASTRAGAL WITH NEOPRENE SEAL

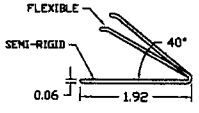


PEMKO 303 SERIES SPLIT ASTRAGAL WITH SILICONE, VINYL OR PEMKOPRENE SEAL

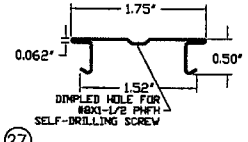


NATIONAL GUARD 137 SERIES SPLIT ASTRAGAL WITH NEOPRENE OR SILICONE SEAL

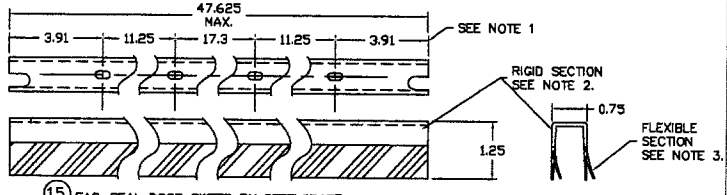
MATERIAL BY STEELCRAFT



PS-074 SELF-ADHESIVE WEATHERSTRIPPING BY STEELCRAFT (14)

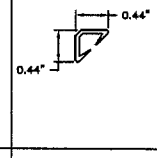
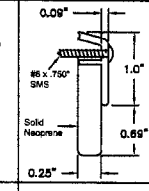
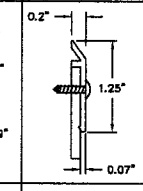
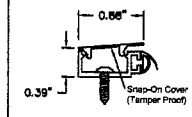
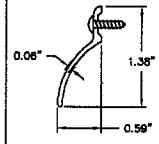
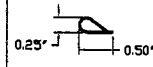
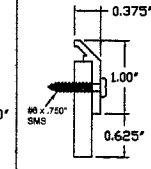
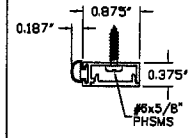
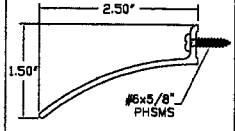


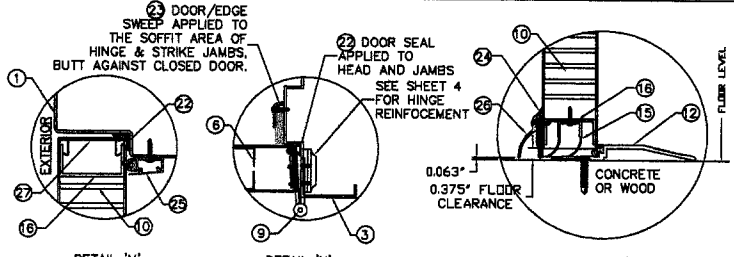
(27) 24 GA TOP CAP BY STEELCRAFT



(15) FAS-SEAL DOOR SWEEP BY STEELCRAFT

ADDITIONAL WEATHERSTRIPPING HARDWARE REQUIRED ONLY WHEN WATER INFILTRATION IS NEEDED

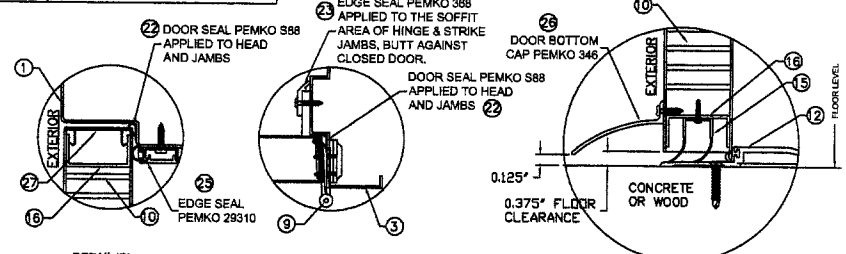
ITEM NUMBER (SHEET 1)		(22)	(23)	(24)	(25)	(26)
MATERIAL BY ZERO INT'L THRESHOLD TYPE 1 BY ZERO INT'L	PART NUMBER & DESCRIPTION	8144FS DOOR SEAL	539 DOOR SWEEP	139 DOOR SWEEP	475 ADJUSTABLE STOP	11 RAIN DRIP CAP
	PART DETAIL					
	INSTALLATION DETAIL	DETAIL 'M' & 'N'	DETAIL 'N'	DETAIL 'P'	DETAIL 'M'	DETAIL 'P'
MATERIAL BY PEMKO THRESHOLD TYPE 4 BY PEMKO	PART NUMBER & DESCRIPTION	S88 DOOR SEAL	368 EDGE SEAL	OMIT	29310 EDGE SEAL	346 DOOR BOTTOM CAP
	PART DETAIL			OMIT		
	INSTALLATION DETAIL	DETAIL 'R' & 'S'	DETAIL 'S'	OMIT	DETAIL 'R'	DETAIL 'T'



DETAIL 'M' TOP OF DOOR/HEAD WEATHERSTRIPPING BY ZERO INT'L

DETAIL 'N' HINGE JAMB SWEEP INSTALLATION OF ZERO PRODUCT

DETAIL 'P' BOTTOM OF DOOR WEATHERSTRIPPING AND SILL INSTALLATION OF ZERO PRODUCT



DETAIL 'R' TOP OF DOOR/HEAD WEATHERSTRIPPING BY PEMKO

DETAIL 'S' HINGE & STRIKE JAMBS SEAL BY PEMKO

DETAIL 'T' BOTTOM OF DOOR WEATHERSTRIPPING AND SILL BY PEMKO

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
F	REVISED PER MDBCCO YMF	06/09/06	

1/29/08
FL 46718

NOTES:

1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-189 POLYPROPYLENE HOMOPOLYMER
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73 73 DUROMETER - SHORE A SCALE
4. WEATHERSTRIPPING MATERIAL BY ZERO INT'L IS APPROVED FOR WATER INFILTRATION FOR SINGLE AND DOUBLE DOORS (DETAILS M,N,P). MATERIAL BY PEMKO IS APPROVED FOR WATER INFILTRATION FOR SINGLE DOORS ONLY (DETAILS R,S,T)

PRODUCT RENEWED
as complying with the Florida Buiding Code
Acceptance No 08-0508.07
Expiration Date JUNE 27, 2013
By Ishaq I. Chanda
Miami Dade Product Control Division

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN YMF	DATE 06/02/06
CHECKED	
APPROVED	
ENG. APPVL	

INGERSOLL-RAND COMPANY
STEELCRAFT MFG.
9017 BlueAsh Rd. Cincinnati Ohio 45242

TITLE DADE COUNTY
DOUBLE DOORS ACCESSORIES
BOTTOM SWEEP
THRESHOLDS, SPLIT ASTRAGALS
AND WEATHERSTRIPPING

SIZE	FLAT	DWG NO. 882W	SHEET 7 OF 7	REV F
SCALE: NTS	AUTOCAD			