



MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING

**BUILDING CODE COMPLIANCE OFFICE**  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**General Products, Co., Inc.**  
P.O. Box 7387  
Fredericksburg VA 22408

**CONTRACTOR LICENSING SECTION**  
(305) 375-2527 FAX (305) 375-2558

**CONTRACTOR ENFORCEMENT SECTION**  
(305) 375-2966 FAX (305) 375-2908

**PRODUCT CONTROL DIVISION**  
(305) 375-2902 FAX (305) 372-6339

Your application for Product Approval of:

***Benchmark Inswing Opaque Res. Insulated Steel Door w/Adjusta-Fit Steel Frame - Impact***

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing.

If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**Acceptance No.: 99-1028.10**

**Expires: 04/21/2003**

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS**

**BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director

Miami-Dade County  
Building Code Compliance Office

**Approved: 04/21/2000**



General Products Co., Inc.

ACCEPTANCE No.: 99-1028.10

APPROVED : APR 21 2000

EXPIRES : APR 21 2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

**1. SCOPE**

**1.1** This approves a residential insulated steel door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

**2. PRODUCT DESCRIPTION**

**2.1** The Series "**Benchmark**" Inswing Opaque Residential Insulated Steel Door w/Adjusta-Fit Steel Frame - Impact Resistant and its components shall be constructed in strict compliance with the following documents: Drawing No **S-2012**, titled "Benchmark Opaque Inswing Steel Door w/Adjusta-Fit Steel Frame" Sheets 1 through 5 of 5 dated 2/28/00, with revision 1 dated 3/28/00, 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. These documents shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS**

**3.1** This approval applies to single unit applications of pair of doors only, as shown in approved drawings.

**3.2** Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

**4. INSTALLATION**

**4.1** The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

**4.2** Hurricane protection system (shutters): the installation of this unit **will not require** a hurricane protection system.

**5. LABELING**

**5.1** 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".

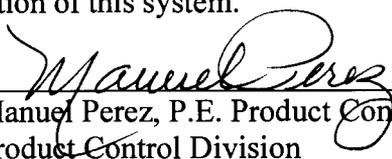
**6. BUILDING PERMIT REQUIREMENTS**

**6.1** Application for building permit shall be accompanied by copies of the following:

**6.1.1** This Notice of Acceptance

**6.1.2** Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

**6.1.3** Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

  
Manuel Perez, P.E. Product Control Examiner  
Product Control Division

**General Products Co., Inc.**

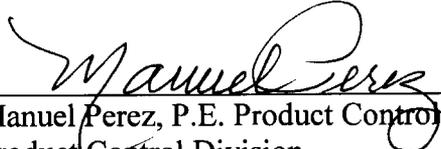
ACCEPTANCE No.: 99-1028.10

APPROVED : APR 21 2000

EXPIRES : APR 21 2003

**NOTICE OF ACCEPTANCE: STANDARD CONDITIONS**

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
  - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
  - b) The product is no longer the same product (identical) as the one originally approved;
  - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
  - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
  - a) Unsatisfactory performance of this product or process.
  - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

  
Manuel Perez, P.E. Product Control Examiner  
Product Control Division

**END OF THIS ACCEPTANCE**

# BENCHMARK

## IN SWING OPAQUE STEEL DOOR W/ADJUSTA-STEEL FRAME

### GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. IMPACT RESISTANT SHUTTERS NOT REQUIRED.
5. THIS SYSTEM WAS TESTED FOR 2.86 LBS. WATER PRESSURE AS PER ASTM-E331.
6. THIS SYSTEM DOES NOT MEET THE WATER REQUIREMENTS IN MIAMI-DADE COUNTY.

### DOOR SYSTEM CONSTRUCTION:

#### DOOR PANEL

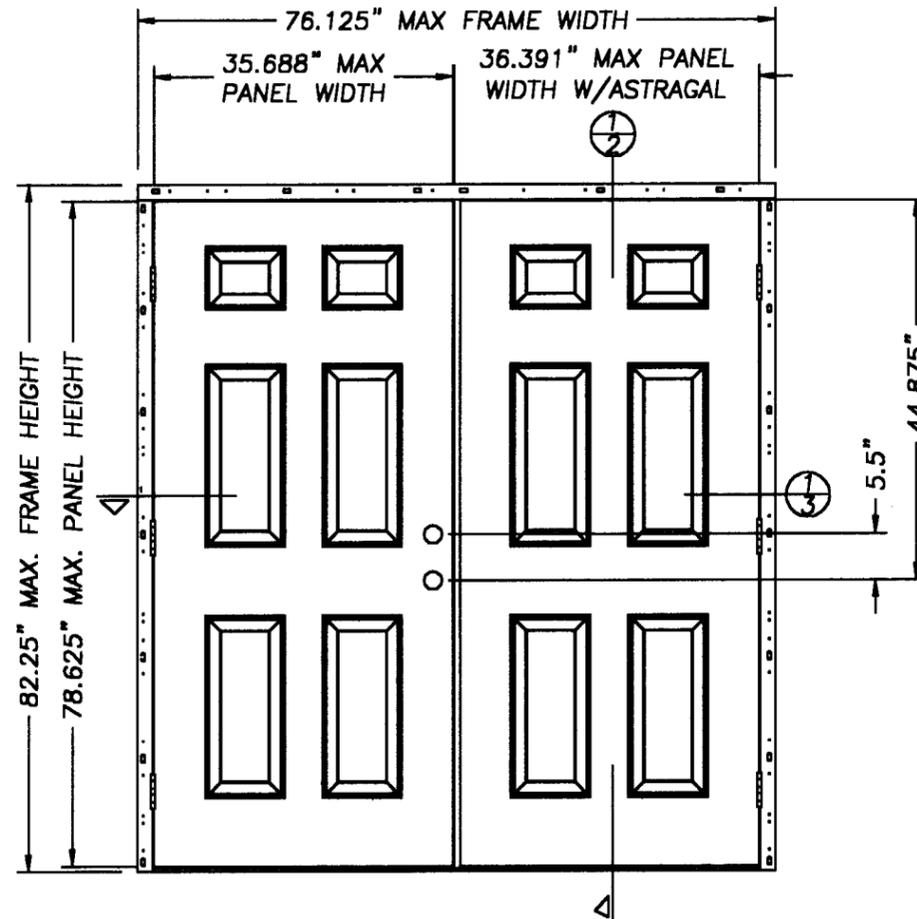
- A. FACE SHEETS: 24 GA. (.025") MINIMUM THICKNESS, GALVANIZED STEEL A-525 COMMERCIAL QUALITY - AKOQ PER ASTM 620 WITH YIELD STRENGTH FY (MIN.) = 27,000psi
- B. CORE DESIGN: POLYURETHANE FOAM (CARPENTER CHEMICAL WITH 2.15 LBS. DENSITY) CORE LAMINATED TO INSIDE FACES.
- C. CONSTRUCTION: THE VERTICAL STYLES ARE EXTENSIONS OF THE SKIN, ROLL FORMED TO A MECHANICAL INTERLOCK, HORIZONTAL EDGES ARE WELDED TOGETHER AT TWO PLACES EACH

#### STEEL FRAME

- A. BASE FRAME MATERIAL: 16GA. (.054" MIN. THK.)
- B. CLOSURE FRAME MATERIAL: 20GA. (.033" MIN. THK.)
- C. THE FRAMES ARE ROLL FORMED AND PRESS BROKE WITH TABS AND SLOTS ON THE HEADERS TO FORM A LOCK.

### TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	GENERAL NOTES AND ELEVATION
2	VERTICAL CROSS SECTIONS
3	HORIZONTAL CROSS SECTION & DOOR MODELS
4	ANCHOR LAYOUT
5	FRAME COMPONENTS & BILL OF MATERIAL



TYPICAL OPAQUE ELEVATION  
VIEWED FROM INTERIOR SIDE

### DESIGN PRESSURE RATING

	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+ 60.0 PSF
NEGATIVE	- 60.0 PSF

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE *April 21, 2000*  
BY *Manuel Ferraz*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *99-1028.10*

DATE: 2/28/00  
SCALE: N.T.S.  
DWG. BY: TJH  
CHK. BY: RW  
DRAWING NO.: S-2012  
SHEET 1 of 5

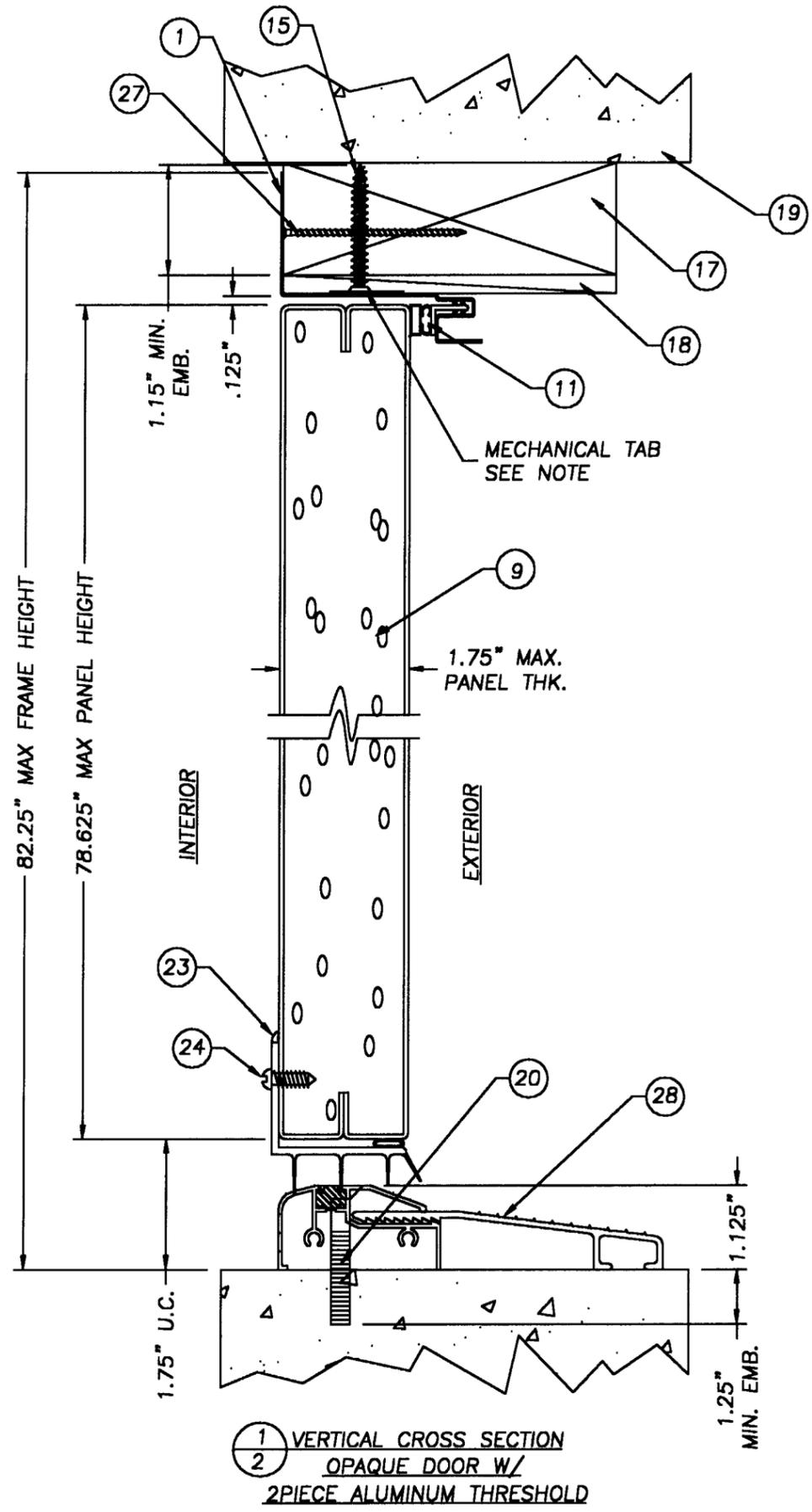
GENERAL PRODUCTS CO. INC.  
P.O. BOX 7387  
FREDERICKSBURG, VA 22404  
PH. (540) 898-5700



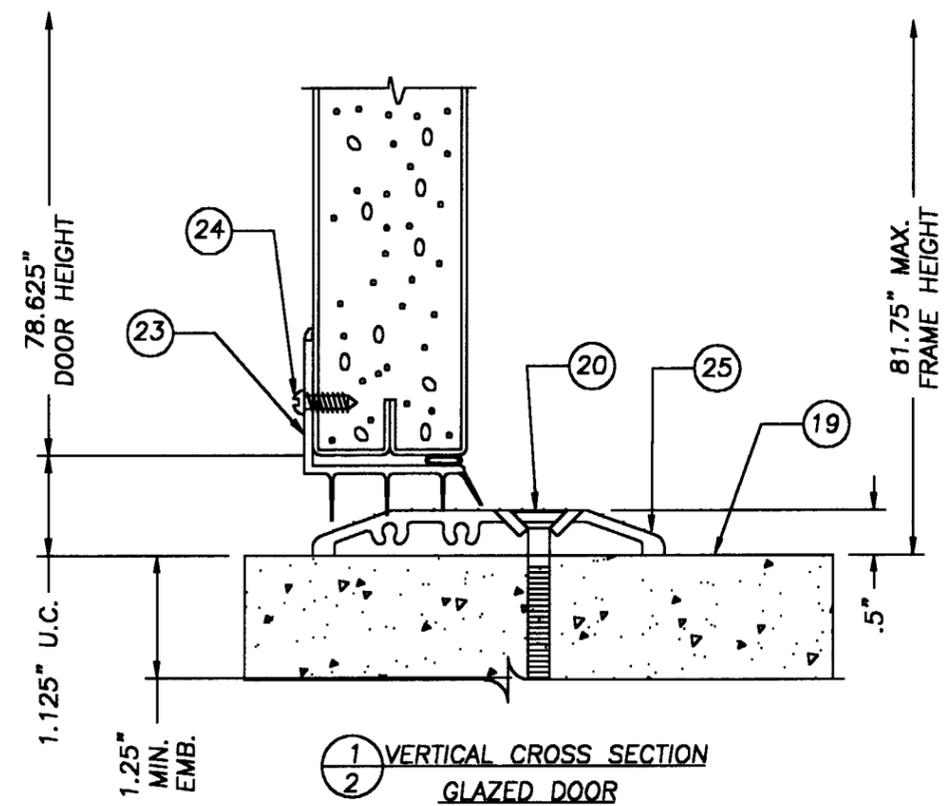
PRODUCT:  
BENCHMARK OPAQUE  
IN SWING STEEL DOOR W/  
ADJUSTA-STEEL FRAME  
PART OR ASSEMBLY:  
ELEVATION &  
GENERAL NOTES

NO.	DATE	GENERAL	TJH	BY
1	3/28/00	GENERAL	TJH	BY

**RW** BUILDING  
CONSULTANTS, INC.  
813.684.3831



1 VERTICAL CROSS SECTION  
2 OPAQUE DOOR W/  
2PIECE ALUMINUM THRESHOLD



1 VERTICAL CROSS SECTION  
2 GLAZED DOOR  
1PIECE BARRIER FREE THRESHOLD  
(SEE GENERAL NOTES NO. 5 & 6 SHEET 1)

NOTE:  
TAB FROM BASE JAMB IS INSERTED INTO THE  
SLOT OF THE BASE HEADER AND BENT OVER TO  
FORM A MECHANICAL LOCK.

GENERAL PRODUCTS CO. INC.  
P.O. BOX 7387  
FREDERICKSBURG, VA 22404  
PH. (540) 898-5700



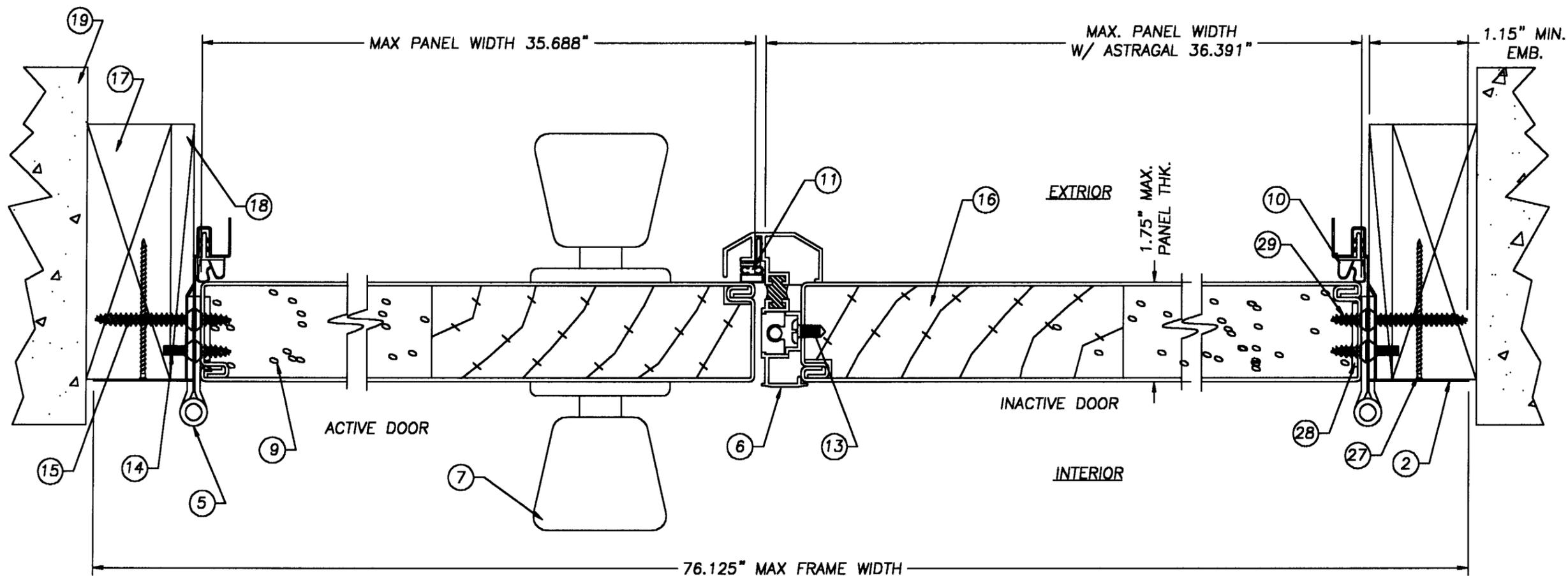
PRODUCT:  
BENCHMARK OPAQUE  
INSWING STEEL DOOR W/  
ADJUSTA-STEEL FRAME  
PART OR ASSEMBLY:  
VERTICAL CROSS SECTIONS

NO.	DATE	GENERAL	TJH	BY
1	3/28/00	GENERAL	TJH	BY

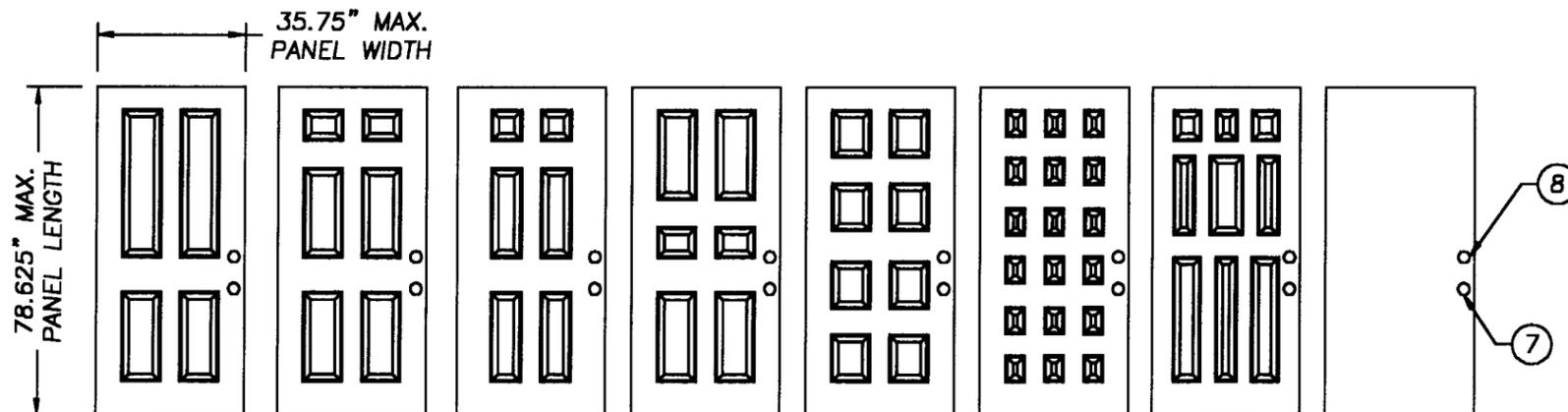
**RW** BUILDING  
CONSULTANTS, INC.  
813.684.3831

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE *April 21, 2000*  
BY *Manuel Perez*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *99-1028.10*

DATE: 2/28/00  
SCALE: N.T.S.  
DWG. BY: TJH  
CHK. BY: RW  
DRAWING NO.: S-2012  
SHEET 2 OF 5



1 HORIZONTAL CROSS SECTION  
3 OPAQUE DOOR



OPAQUE DOOR MODELS

GENERAL PRODUCTS CO. INC.  
P.O. BOX 7387  
FREDERICKSBURG, VA 22404  
PH. (540) 898-5700



PRODUCT: BENCHMARK OPAQUE  
INSWING STEEL DOOR W/  
ADJUSTA-STEEL FRAME  
PART OR ASSEMBLY:  
HORIZONTAL CROSS  
SECTIONS & DOOR MODELS

NO.	DATE	GENERAL	TJH	BY
1	3/28/00	GENERAL	TJH	BY

RW BUILDING  
CONSULTANTS, INC.  
813.684.3831

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE *April 21, 2000*  
BY *Manuel*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *79-1028-10*

DATE: 2/25/00  
SCALE: N.T.S.  
DWG. BY: TJH  
CHK. BY: RW  
DRAWING NO.: S-2012  
SHEET 3 OF 5

GENERAL PRODUCTS CO. INC.  
 P.O. BOX 7387  
 FREDERICKSBURG, VA 22404  
 PH. (540) 898-5700

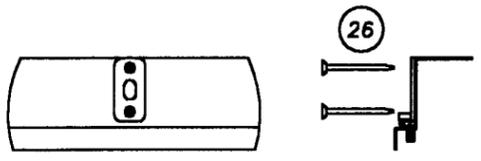
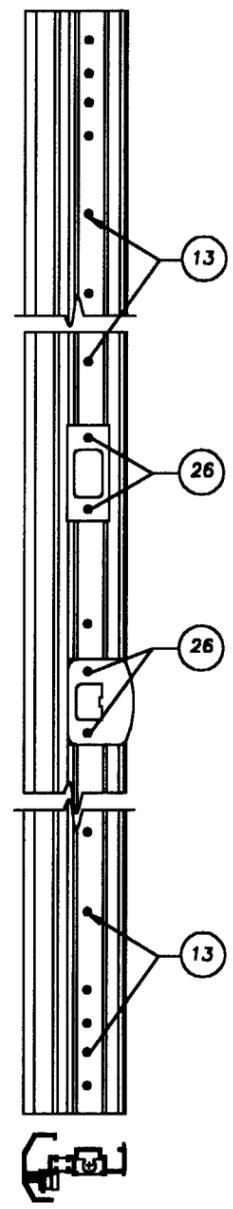


PRODUCT: BENCHMARK OPAQUE  
 INSWING STEEL DOOR W/  
 ADJUSTA-STEEL FRAME  
 PART OR ASSEMBLY:  
 ANCHORING LAYOUT

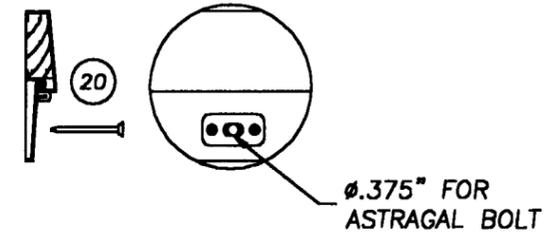
NO.	DATE	GENERAL	TJH	BY
1	3/28/00	GENERAL	TJH	BY

**RW** BUILDING  
 CONSULTANTS, INC.  
 813.684.3831

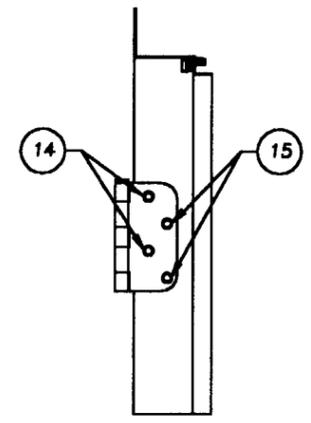
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 SCALE: N.T.S.  
 DWG. BY: TJH  
 CHK. BY: RW  
 DRAWING NO.: S-2012  
 SHEET 4 OF 5



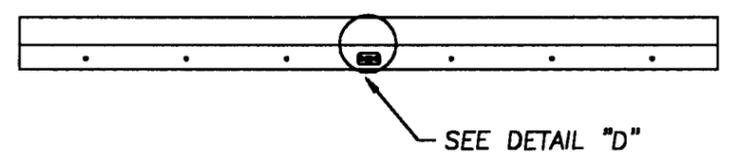
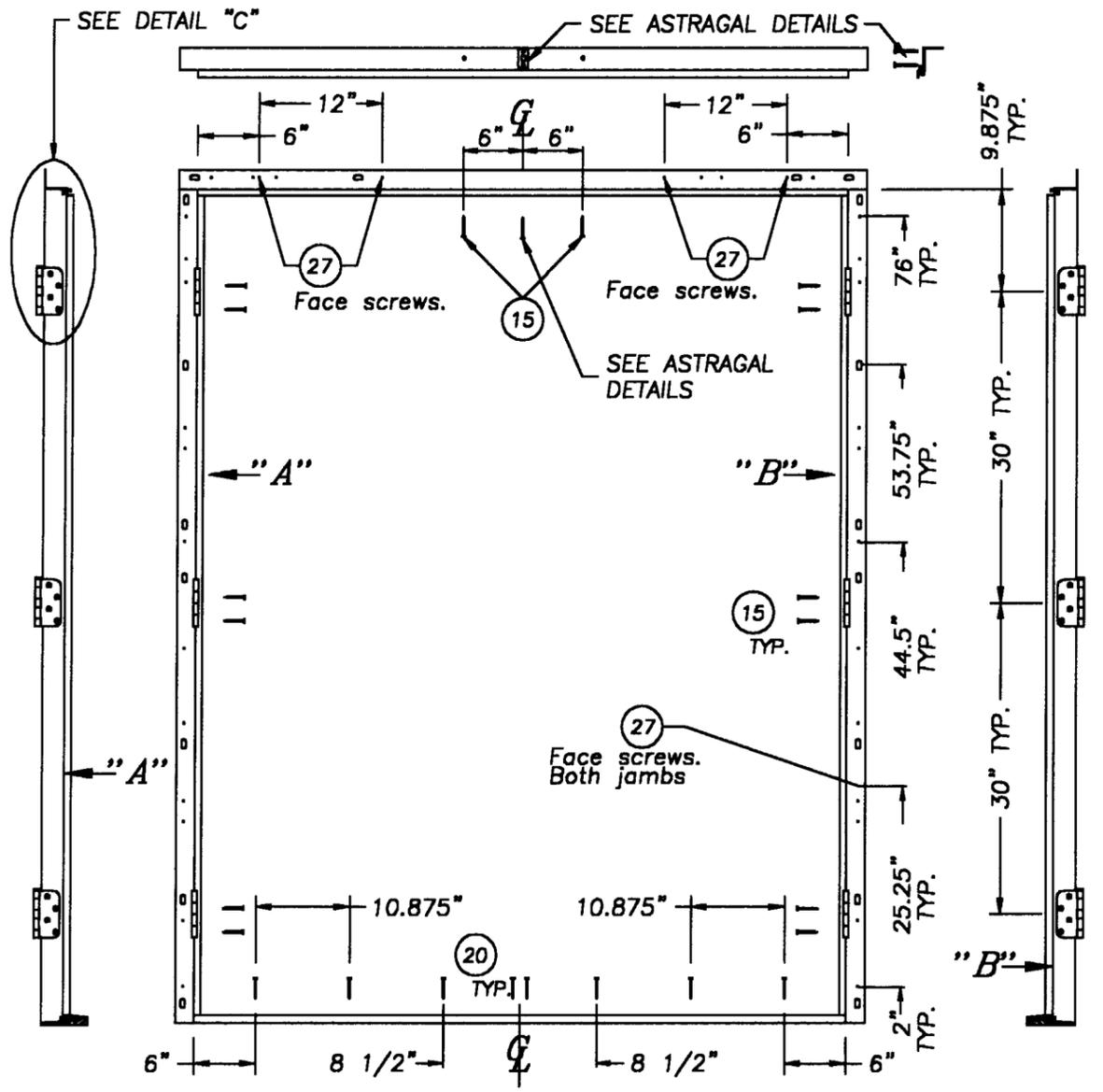
**ASTRAGAL DETAILS**  
 ATTACH ASTRAGAL THROW BOLT  
 STRIKE PLATE TO FRAME  
 AS SHOWN.



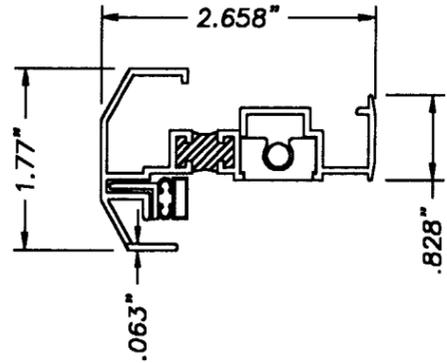
**DETAIL "D"**  
 ATTACH ASTRAGAL THROW BOLT  
 STRIKE PLATE TO THRESHOLD  
 AS SHOWN.



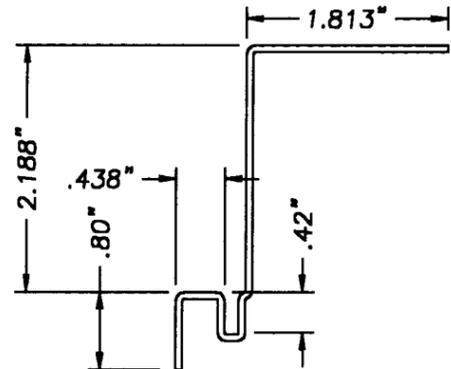
**DETAIL "C"**  
 TYP. HINGE DETAIL



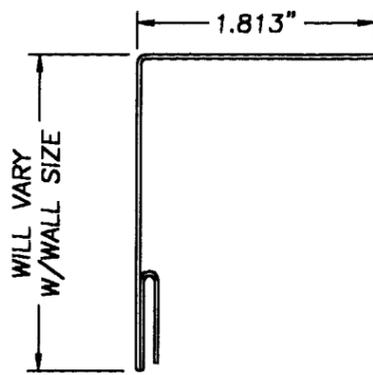
APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE: April 21, 2000  
 BY: *M. J. [Signature]*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 99-1028.10



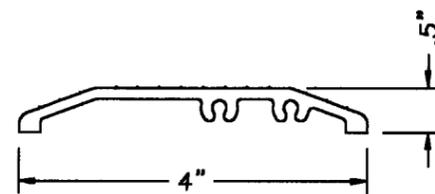
TEE ASTRAGAL



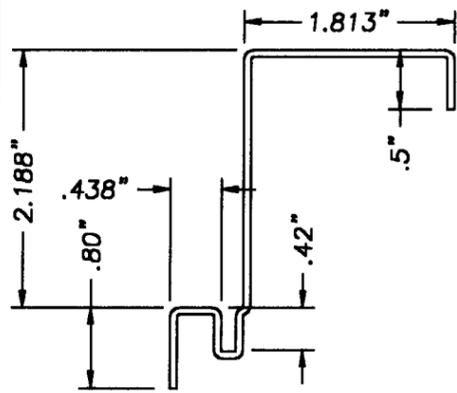
ADJUSTA-STEEL BASE FRAME  
W/FLAT FACE  
16GA. (.054\"/>



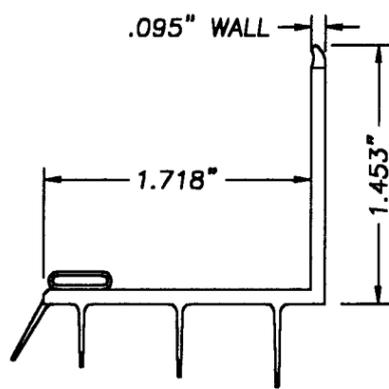
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W/FLAT FACE  
20GA. (.033\"/>



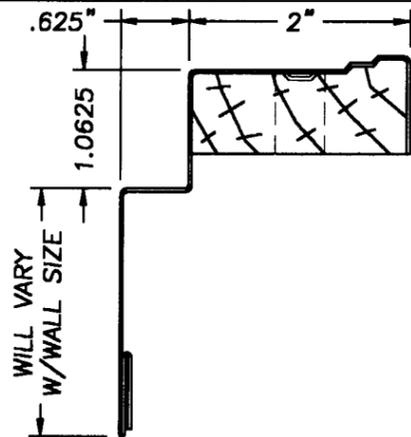
BARRIER FREE THRESHOLD



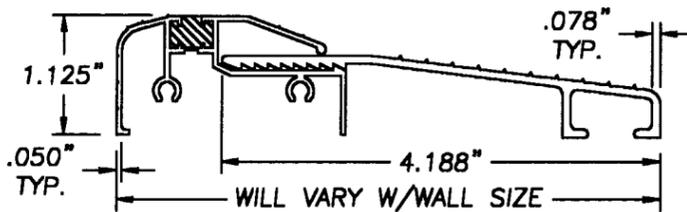
ADJUSTA-STEEL BASE FRAME  
W/1/2\"/>



VINYL ADJUSTABLE SWEEP



ADJUSTA-STEEL CLOSURE FRAME  
W/FORMED BRICK MOLD  
20GA. (.033\"/>



2PIECE INSWING ALL  
ALUMINUM THRESHOLD

ITEM	DESCRIPTION	MATERIAL
1	STEEL BASE HEADER (16GA. .054\"/>	
2	STEEL HINGE JAMB (16GA. .054\"/>	
3	STEEL CLOSURE HEADER (20GA. .033\"/>	
4	STEEL CLOSURE JAMB (20GA. .033\"/>	
5	BENCHMARK 4\"/>	
6	T-ASTRAGAL (.063\"/>	
7	KWIKSET 200 DL PASSAGE	-
8	KWIKSET 660 DEADBOLT	-
9	POLYURETHANE FOAM CARPENTER CHEM. 2.15 lbs DENSITY	-
10	COMPRESSION WEATHER STRIPPING	FOAM
11	MAGNETIC WEATHER STRIPPING	VINYL
12	COMPRESSION WEATHER STRIPPING Q-LON QDS 650	FOAM
13	#12 x 1/2\"/>	
14	10-24 x 3/8\"/>	
15	#10 x 1 3/4\"/>	
16	LATCH & DEADBOLT WOOD BLOCK	WOOD
17	2X WOOD (BUCK)	WOOD
18	1/4\"/>	
19	MASONRY WALL	-
20	3/16\"/>	
21	STEEL HINGE REINFORCEMENT .050\"/>	
22	#10 x 5/8\"/>	
23	ADJUSTABLE SWEEP	VINYL
24	#8 x 1/2\"/>	
25	1PIECE BARRIER FREE THRESHOLD	ALUMINUM
26	#8 x 2 1/2\"/>	
27	#6 x 2 1/2\"/>	
28	2PIECE ALL ALUMINUM INSWING THRESHOLD	ALUMINUM

GENERAL PRODUCTS CO. INC.  
P.O. BOX 7387  
FREDERICKSBURG, VA. 22404  
PH. (540) 898-5700

PRODUCT: BENCHMARK OPAQUE  
INSWING STEEL DOOR W/  
ADJUSTA-STEEL FRAME  
PART OR ASSEMBLY:  
FRAME COMPONENTS

NO.	DATE	GENERAL	TJH	BY
1	3/28/00	GENERAL	TJH	BY

**RW** BUILDING  
CONSULTANTS, INC.  
813.684.3831

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE: *April 21, 2000*  
BY: *Manuel Serrano*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *99-1028.10*

DATE: 2/28/00  
SCALE: N.T.S.  
DWG. BY: TJH  
CHK. BY: RW  
DRAWING NO.: S-2012  
SHEET 5 OF 5