



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

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

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

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

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**Steelcraft Manufacturing Company**  
9017 Blue Ash Road  
Cincinnati, OH 45242

Your application for Notice of Acceptance (NOA) of:

**Series L, SL, CE & B 20 ga. Outswing Commercial Steel Door - 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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time 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 by 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.

Raul Rodriguez  
Chief Product Control Division

**ACCEPTANCE NO.: 01-0129.10**  
**EXPIRES: 11/09/2006**

**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 Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

**APPROVED: 05/24/2001**



**Steelcraft Manufacturing Co.**

ACCEPTANCE No.: 01-0129.10

APPROVED : MAY 24 2001

EXPIRES : November 09, 2006

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

1.1 This renews the Notice of Acceptance No. 98-0310.04 which was issued on December 10, 1998. It approves a commercial 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 L, SL, CE and B, 20 ga. Outswing Commercial Steel Door – Impact, and its components shall be constructed in strict compliance with the following documents: Drawing No. NCTL 201, Sheets 1 through 10 of 10, titled “Dade County, L-20 – 4 3070 Single,” prepared by manufacturer, dated 8/4//98, with revision B dated 11/10/98, 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 as shown in approved drawings

**4. INSTALLATION**

4.1 The outswing commercial steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 The installation of this product **will not** require a hurricane protection system.

**5. LABELING**

5.1 Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

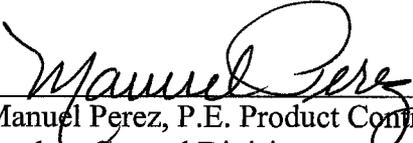
**6. BUILDING PERMIT REQUIREMENTS**

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

**Steelcraft Manufacturing Co.**

**ACCEPTANCE No.:** 01-0129.10

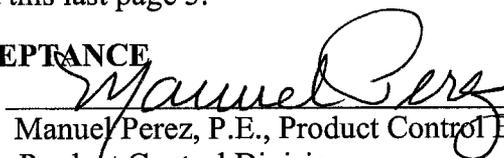
**APPROVED** : MAY 24 2001

**EXPIRES** : November 09, 2006

**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 purposes.
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 needs 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.

**END OF THIS ACCEPTANCE**

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

Steelcraft Manufacturing Co.

ACCEPTANCE No.: 01-0129.10

APPROVED : MAY 24 2001

EXPIRES : November 09, 2006

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

*(For File ONLY. Not part of NOA.)*

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **NCTL 201**, Sheets 1 thru 10 of 10, titled "Dade County, L-20 - 4 3070 Single", prepared by the manufacturer, dated 8/04/98, with revision B dated 11/10/98.  
(Reviewer's note: Dwg. No. **NCTL 201**, Sheets 1 of 10 and 4 of 10 has been revised for elevation anchor clarification due to incoming installation inquiries MP 5/3/01)

**B. TESTS**

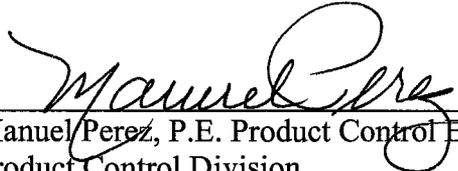
1. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94  
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94  
3) Water Resistance Test, per SFBC, PA 202-94  
4) Large Missile Impact Test per SFBC, PA 201-94  
5) Cyclic Wind Pressure Loading per SFBC, PA 203-94  
6) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94  
along with manufacturer's parts and section drawings marked by National Certified Testing Laboratories, prepared by National Certified Testing Laboratories, Test Report No. **NCTL 210-1703-1S**, dated 04/10/95, tested 02/06/95, signed and seal by Barry D. Portnoy.

**C. CALCULATIONS**

1. Anchor calculations prepared by Farrokh Rasekhi, P.E. Structural Design, Inc., dated 07/19/95, signed and sealed by Farrokh Rasekhi, P.E

**D. MATERIAL CERTIFICATIONS**

1. Test Report No. 96921 on Test for Ignition of Plastics, issued by United States Testing Co., to Huntsman Chemical Corp. for their expanded polystyrene foam grades 54 and 86, per ASTM D-1929, dated August 28, 1987.
2. National Evaluation Report No. NER-384, issued by National Evaluation Service, Inc. NES, dated May 1, 1994, listing results of testing performed by UL per ASTM E-84 on Huntsman Chemical Corp. expanded polystyrene foam grades 54 and 86.
3. Underwriters Laboratories, Inc. Listing R5653(N) issued to Dow Chemical Co. for their **Tymer 2000** brand rigid polyurethane foam insulation.

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

**Steelcraft Manufacturing Co.**

**ACCEPTANCE No.:** 01-0129.10

**APPROVED** : MAY 24 2001

**EXPIRES** : November 09, 2006

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

*(For File ONLY. Not part of NOA.)*

**E. STATEMENTS**

1. Letter from Steelcraft / Ingersoll-Rand Company, dated 01/19/2001, stating that the product has not changed since it was originally approved, signed by Al Urbaniak, Senior Product Manager; Rick Hulsmann, Manager, Product Engineering Dept.; and Yuriy Farber, Application Engineer, Product Engineering Dept.
2. Letter from James L. Holsonback, P.E. dated January 19, 1991, stating that he is still in the engineering business.

**F. OTHERS**

1. Notice of Acceptance 98-0310.04 issued to Steelcraft Manufacturing Co. for their Series L, SL, CE and B 20 gauge Outswing Commercial Steel Door – Impact, dated 12/10/98, expiring on 11/09/01.

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

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	10.12.98	
B	GENERAL REVISION	11/10/98	
C	REV'D NOTES, DIM'S	YMF 05/01/01	

**PRODUCT RENEWED**

ACCEPTANCE No. 01-0129.10

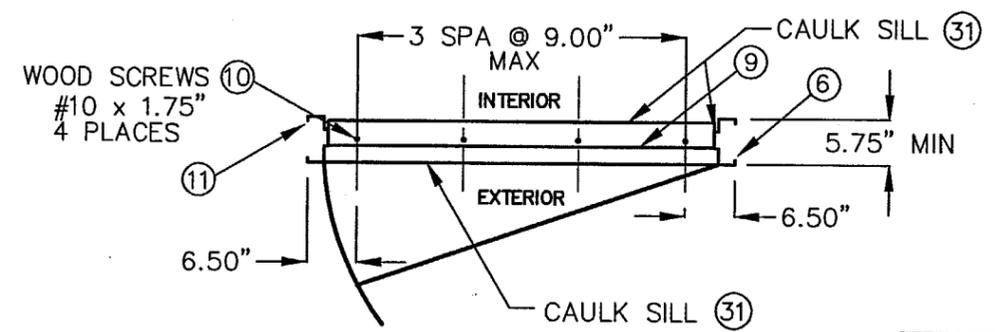
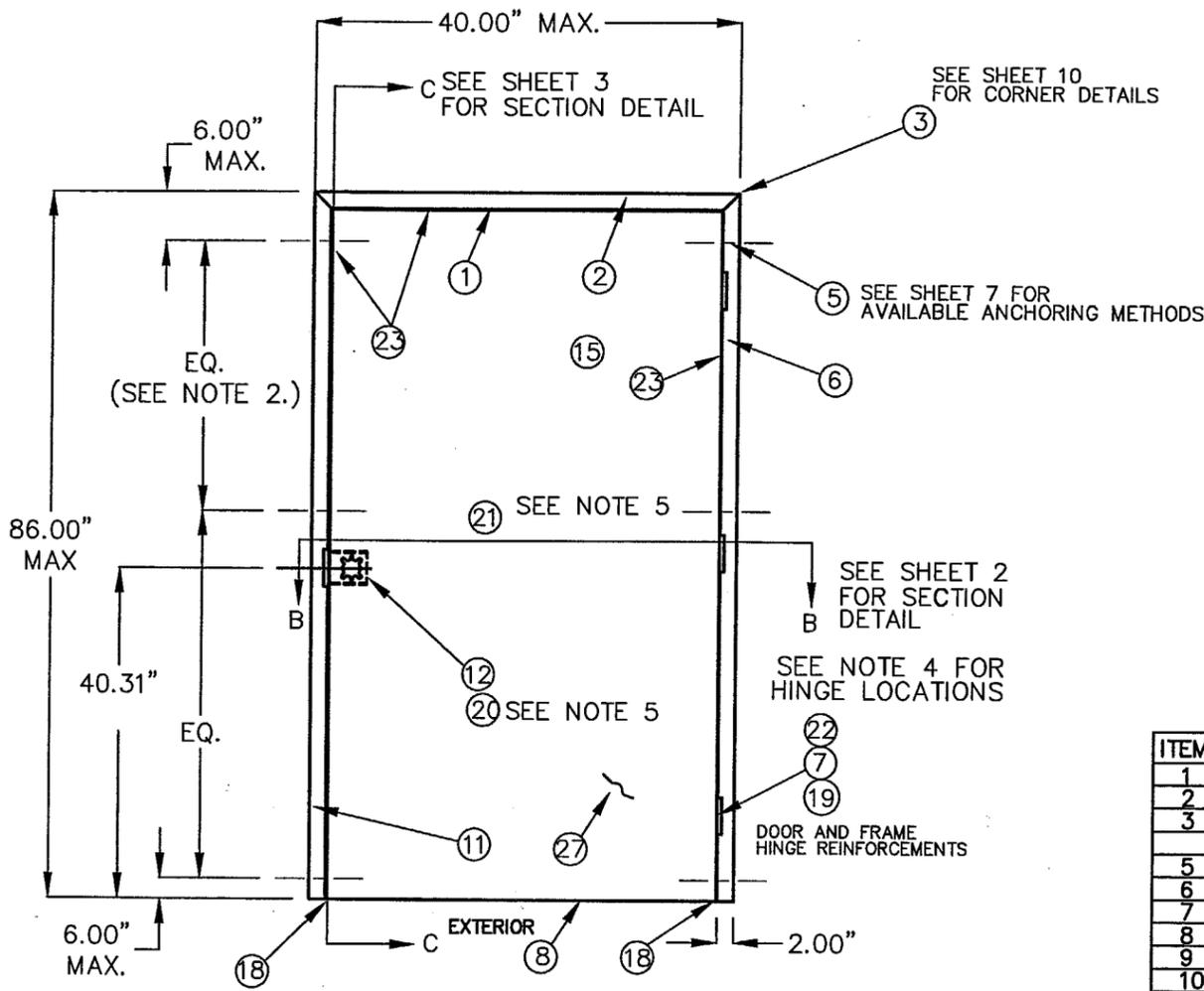
EXPIRATION DATE 11-9-06

By *Manuel Perez*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

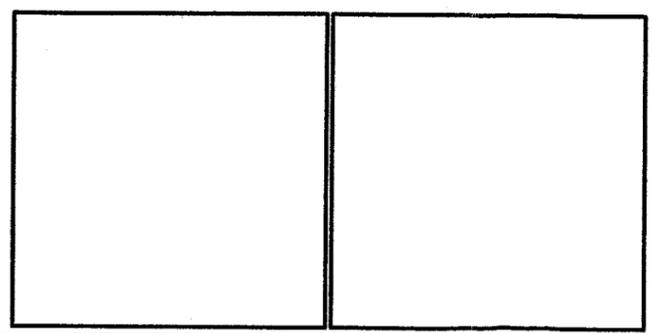
**NOTES:**

- 1 ROW OF PS074 WEATHERSTRIPPING ON HEAD AND JAMBS SEE SHT 2 & 3
- MIN. (3) ANCHORS PER JAMB REQUIRED, APPROX. EQUALLY SPACED IN HEIGHT (NOT TO EXCEED 45" O.C.)
- SEE SHEET 8 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS
- HINGE LOCATIONS ON FRAME: FROM RABBET IN HEAD TO TOP HINGE 9.75" FROM FLOOR TO BOTTOM HINGE 10.38". EQUALLY SPACED BETWEEN.
- HARDWARE INSTALLATION IS PER MANUFACTURER'S INSTRUCTIONS.
- RUST INHIBITOR PRIMER ON DOOR AND FRAME SURFACES

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	TOP CAP GALV. ASTM A924	.022" MIN GALV.	.50" X 1.719" X 35.66" MAX
2	1	HEAD SEE SHT 8 ASTM A366	.053" MIN. STL	MAX. 40"
3	2	CORNER PREP	SEE SHT 10	
5	6	JAMB ANCHOR ASTM A924 3/JAMB	.042 MIN. GALV.	1.92" X 5.688" MIN.
6	1	HINGE JAMB SEE SHT 8 ASTM A366	.053" MIN. STL	MAX. 86"
7	3	HINGE REINFORCING DOOR ASTM A621	.171" MIN. STL.	1.28" X 9.19" MAX. 35.66"
8	1	FAS-SEAL DOOR SWEEP	TPE	
9	1	DURABLE PRODUCTS LT206HV SILL W/ BUMPER GASKET	.100" ALUM. 6063 T5	1.00" X 5.50" X 36" MAX.
10	3	THRESHOLD FASTNERS SHEET METAL PHILLIPS	STEEL	#10 X 1.75"
11	1	STRIKE ASA / JAMB SEE SHT 8	.053" MIN. STL	MAX. 86"
12	1	CYLINDRICAL ASTM A366/A924 A60	.053" MIN CRS/GALV.	4.63" X 6.5"
15	1	CORE MATERIAL A) POLYSTYRENE B) POLYURETHANE C) HONEYCOMB D) STEEL STIFFENED	SEE SHT 9	35.66" X 81.5" MAX
18	2	CORNER SEAL	POLYPROPYLENE	.25 X 1.06" X 1.38"
19	3	HINGE REINFORCING FRAME ASTM A621	.171" MIN STL.	1.50" X 9.19"
20	1	YALE CYLINDRICAL LOCKSET MODEL 5407		
22	3	STANLEY F179/1900 OR HAGER 1279 HINGES	X .134	4.50" X 4.50
23	3	PS074 WEATHER STRIPPING	TPE	MAX 87.00"
27	1	DOOR SLAB	SEE SHEET 8	3070 MAX.
28	2	END CHANNEL ASTM A924	.067" MIN GALV.	.69" X 1.66" X 35.66" MAX
31	AS NEEDED	BUTYL RUBBER OR 100% SILICONE		



DESIGN PRESSURE RATING		
	TESTED FOR WATER PENETRATION	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+ 35 PSF	+ 80 PSF
NEGATIVE	- 53 PSF	- 53 PSF



BEND RADIUS

THIRD ANGLE PROJECTION

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

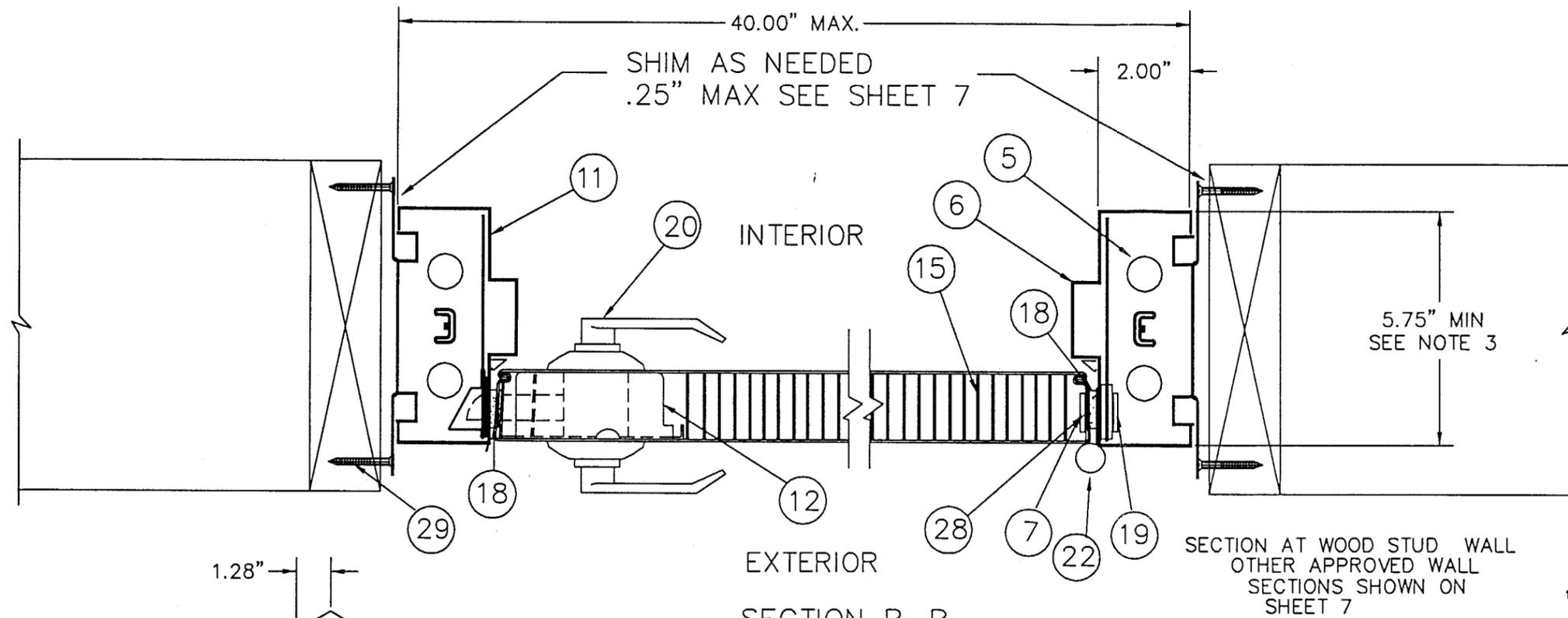
TITLE DADE COUNTY  
 DADE COUNTY  
 L20 - 4 3070 SINGLE  
 YALE HARDWARE

DRAWN JU DATE 8.04.98  
 CHECKED  
 APPROVED  
 ENG. APPVL

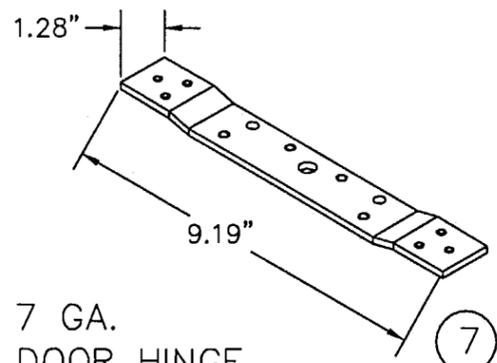
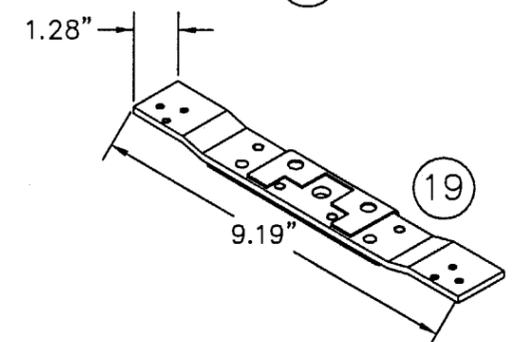
SIZE FLAT DWG NO. NCTL 201 SHEET 1 OF 10 REV C  
 SCALE: 22 AUTOCAD SHEET OF

REVISIONS

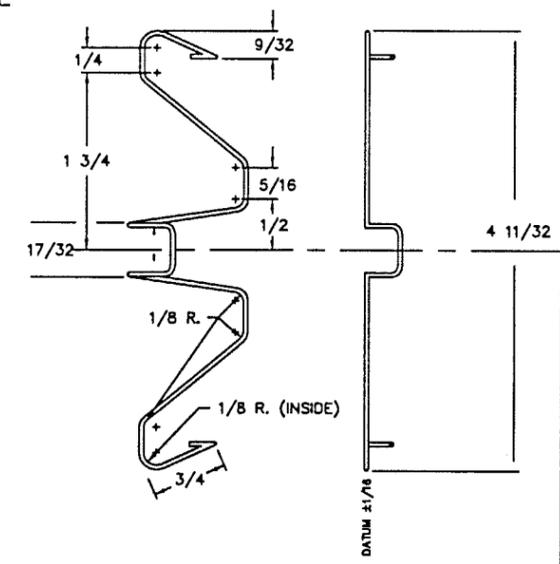
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	10.12.98	
B	REVISED BOM	11/03/98	



1. SEE SHT 1 FOR ELEVATION MATERIAL AND SIZE
2. KNOBS OR LEVER HANDLES MAY BE USED
3. SEE SHT 8 FOR OTHER JAMB DEPTH, & SPECIFICATIONS



SECTION AT WOOD STUD WALL  
OTHER APPROVED WALL  
SECTIONS SHOWN ON  
SHEET 7



**PRODUCT RENEWED**  
ACCEPTANCE No. 01-0129.10  
EXPIRATION DATE 11-9-06  
By Manuel Perez  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE December 19 1998  
BY Manuel Perez  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 98-1013-04

ITEM	QUANTITY	DESCRIPTION
5	6 TOTAL	JAMB ANCHOR
6	1	HINGE JAMB SIDE
7	3	HINGE REINFORCING DOOR
11	1	STRIKE ASA STRIKE / JAMB
12	1	CYLINDRICAL REINFORCING
15	1	CORE MATERIAL A) POLYSTYRENE      B) POLYURETHANE C) HONEYCOMB      D) STEEL STIFFENED
18	2	CORNER SEALS
19	3	HINGE REINFORCING FRAME
20	1	YALE CYLINDRICAL LOCKSET
22	3	STANFLY F179/1900 OR HAGER 1279 HINGES
23	2	PS074 WEATHER STRIPPING PER. JAMB
28	3	WIRE HINGE SPACER .045" STEEL
29	12	#8 X 1 1/2" SCREW STEEL

BEND RADIUS	
THIRD ANGLE PROJECTION	
DRAWN <b>JU</b>	DATE <b>8.04.98</b>
CHECKED	
APPROVED	
ENG. APPV.	

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

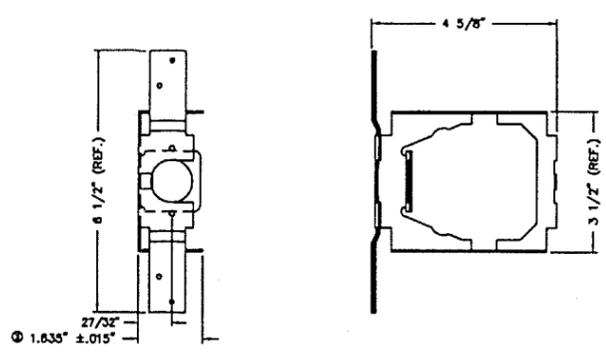
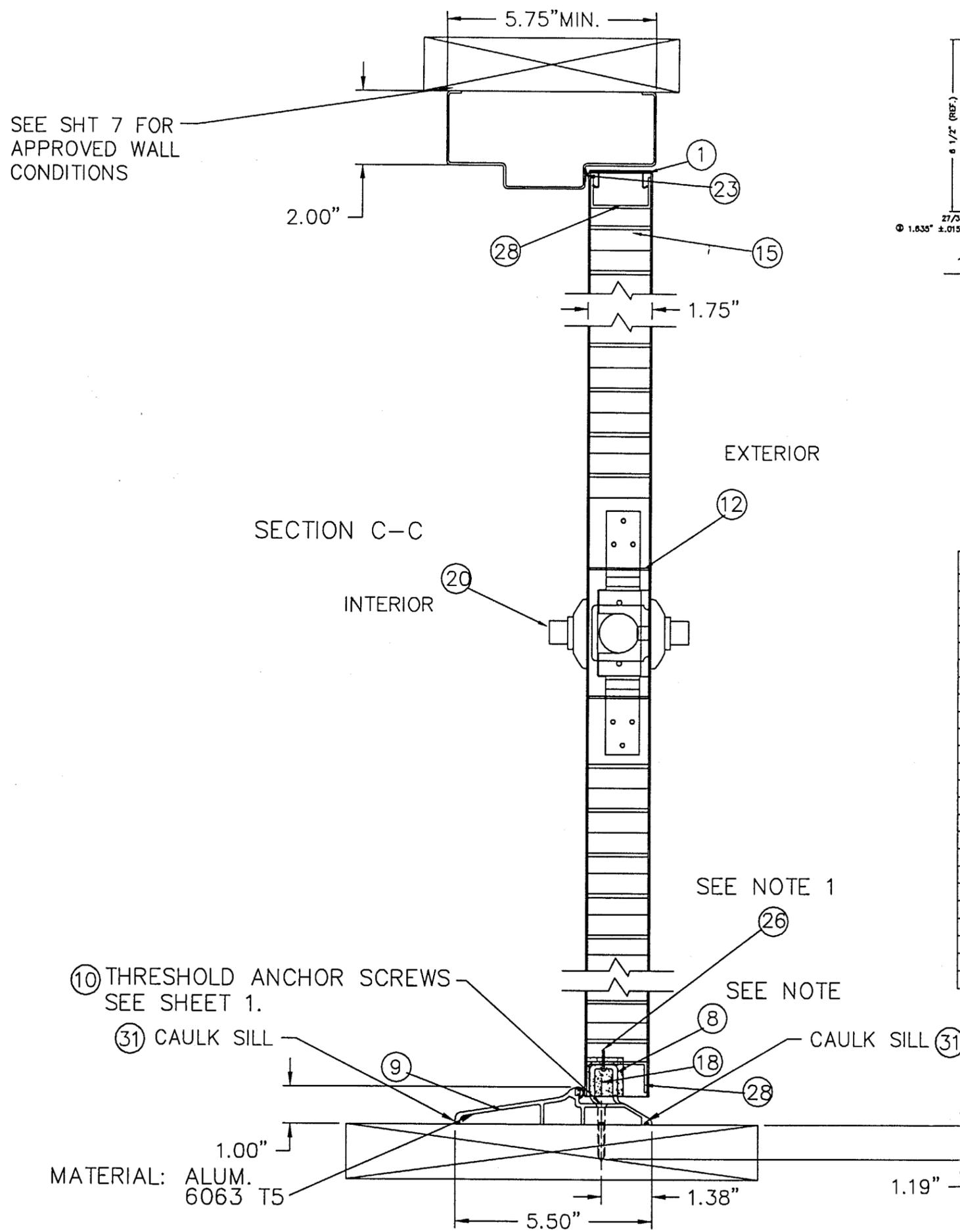
TITLE: **DADE COUNTY**  
**CROSS SECTION OF DOOR AND FRAME**  
**WITH CYLINDRICAL LOCK REINFORCING**

SIZE: **FLAT**      DWG NO. **NCTL 201 SHEET 2 OF 10**      REV **B**

SCALE: **2.8**      **AUTOCAD**      SHEET **OF**

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	10.12.98	
B	GENERAL REVISION	11/03/98	



16 GA. CYL. REINF.

- NOTE:
- FOR 30 DOOR AND UNDER  
3 SCREWS 3.88" FROM ENDS  
WITH A MAX SPACING OF 13.56"  
BETWEEN SCREWS
  - SEE SHEET 1 FOR ELEVATION LOCK SETS
  - SEE SHEET 8 FOR SINGLE AVAILABLE,  
STANDARD OPENING SIZE & SPECIFICATIONS

ITEM	QUANTITY	DESCRIPTION
1	1	TOP CAP
2	1	HEAD
8	1	FAS-SEAL DOOR SWEEP
9	1	DURABLE PRODUCTS SILL WITH BUMPER GASKET
10	4	THRESHOLD FASTNERS SHEET METAL PHILLIPS
12	1	CYLINDRICAL LOCK REINFORCING
15	1	CORE MATERIAL A) POLYSTYRENE    B) POLYURETHANE C) HONEYCOMB    D) STEEL STIFFENED
18	2	CORNER SEALS
20	1	YALE CYLINDRICAL LOCKSET
23	3 TOTAL	PS074 WEATHER STRIPPING
26	3	#10 X .75" PHSM STEEL SCREWS
28	2	TOP AND BOTTOM CHANNEL
31	AS NEEDED	BUTYL RUBBER OR 100% SILICONE CAULK

**PRODUCT RENEWED**  
 ACCEPTANCE No. 01-0129.10  
 EXPIRATION DATE 11-9-06  
 By Manuel Perez  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE December 10 1998  
 BY Manuel Perez  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 98-0310.04

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN: JU    DATE: 8.04.98

CHECKED:

APPROVED:

ENG. APPVL:

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

TITLE: PROFILE OF STEELCRAFT DOOR WITH CYLINDRICAL REINFORCING

SIZE: FLAT    DWG NO.: NCTL 201 SHEET 3 OF 10    REV: A

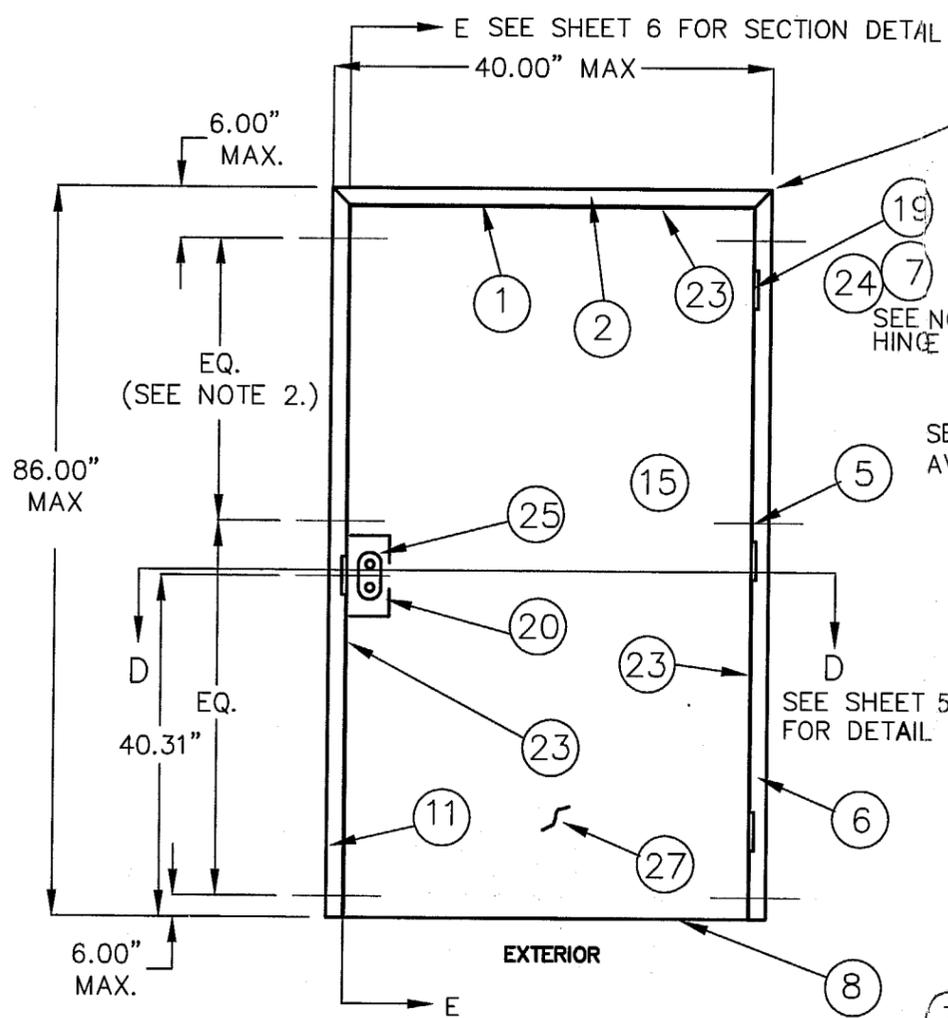
SCALE: 3.37    AUTOCAD    SHEET OF

⑩ THRESHOLD ANCHOR SCREWS  
SEE SHEET 1.

③① CAULK SILL

CAULK SILL ③①

MATERIAL: ALUM.  
6063 T5



E SEE SHEET 6 FOR SECTION DETAIL  
40.00" MAX

6.00" MAX.

SEE SHEET 10 FOR CORNER DETAILS

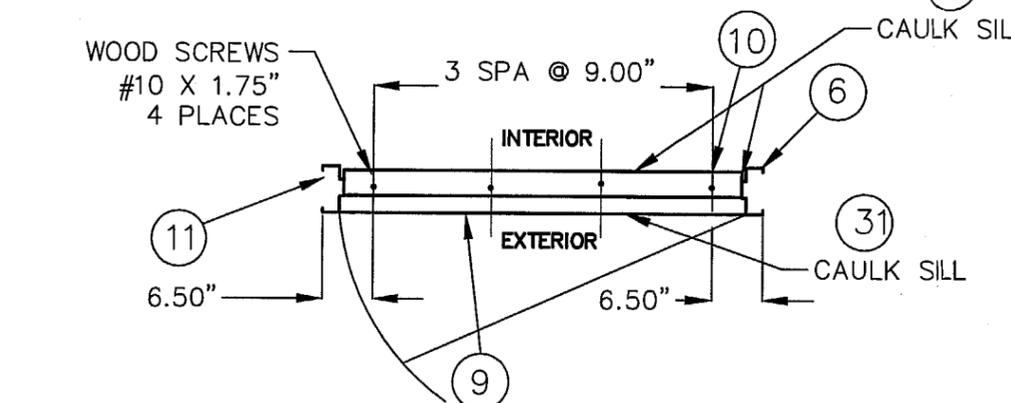
DOOR AND FRAME HINGE REINFORCEMENT

SEE NOTE 4 FOR HINGE LOCATIONS

SEE SHEET 7 FOR AVAILABLE ANCHORING METHODS

SEE SHEET 5 FOR DETAIL

EXTERIOR



**NOTES:**

1. 1 ROW OF PS074 WEATHERSTRIPPING ON HEAD & JAMBS SEE SHT 5 & 6
2. MIN. (3) ANCHORS PER JAMB REQUIRED, APPROX. EQUALLY SPACED IN HEIGHT (NOT TO EXCEED 45" O.C.)
3. SEE SHEET 8 FOR AVAILABLE STANDARD OPENING SIZES & SPECIFICATIONS
4. HINGE LOCATIONS ON FRAME: FROM RABBET IN HEAD TO TOP HINGE 9.75" FROM FLOOR TO BOTTOM HINGE 10.38". EQUALLY SPACED BETWEEN.
5. HARDWARE INSTALLATION IS PER MANUFACTURER'S INSTRUCTIONS.
6. RUST INHIBITOR PRIMER ON DOOR AND FRAME.

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	10.12.98	
B	GENERAL REVISION	11/09/98	
C	REV'D NOTES, DIM'S	YMF 05/01/01	

ITEM	QTY	DESCRIPTION	MATERIAL	SIZE
1	1	TOP CAP GALV. ASTM A924	.022" MIN GALV.	.50" X 1.719 X 35.66"
2	1	HEAD SEE SHT 8 ASTM A366	.053" MIN. STL	MAX. 40"
3	2	CORNER PREP	SEE SHT 10	
5	6	JAMB ANCHOR ASTM A924 SEE SHT 7	.042" MIN. GALV.	1.92" X 5.688" MIN
6	1	HINGE JAMB SIDE SEE SHT 8 ASTM A366	.053" MIN. STL	MAX. 86"
7	3	HINGE REINFORCING DOOR ASTM A621	.171" MIN. STL.	1.28" X 9.19"
8	1	FAS-SEAL DOORSWEEP	TPE	MAX. 47.66"
9	1	DURABLE PRODUCTS SILL WITH BUMPER GASKET	.100" ALUM. 6063 T5	1.00" X 5.50" X 36" MAX.
10	4	THRESHOLD FASTNERS SHEET METAL PHILLIPS	STEEL	#10 X 1.75"
11	1	STRIKW WITH ASA / JAMB SEE SHT 8 ASTM A366	.053" MIN. STL	MAX. 86"
15	1	CORE MATERIAL A) POLYSTYRENE B) POLYURETHANE C) HONEYCOMB D) STEEL STIFFENED	SEE SHT 9	35.66" X 81.5" MAX
18	2	CORNER SEAL	POLYPROPYLENE	.25 X 1.06" X 1.38"
19	3	HINGE REINFORCING FRAME ASTM A621	.171" MIN. STL. MIN	1.50" X 9.19"
20	1	YALE MORTISE LOCKSET MODEL 8747	SEE YALE	
23	3	PS074 WEATHER	TPE	MAX 87.00"
24	3	STANLEY F179/1900 OR HAGER 1279 HINGES	X.134	4.50" X 4.50"
25	1	GOVERNMENT 86 LOCK REINFORCING ASTM A621	.053" MIN. STL.	4.80" X 10.88"
27	1	DOOR SLAB	SEE SHEET 8	3070 MAX.
31	AS NEEDED	BUTYL RUBBER OR 100% SILICONE		

DESIGN PRESSURE RATING		
	TESTED FOR WATER PENETRATION	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+35 PSF	+80 PSF
NEGATIVE	- 53 PSF	- 53 PSF

**PRODUCT RENEWED**

ACCEPTANCE No. 01-0129.10

EXPIRATION DATE 11-9-06

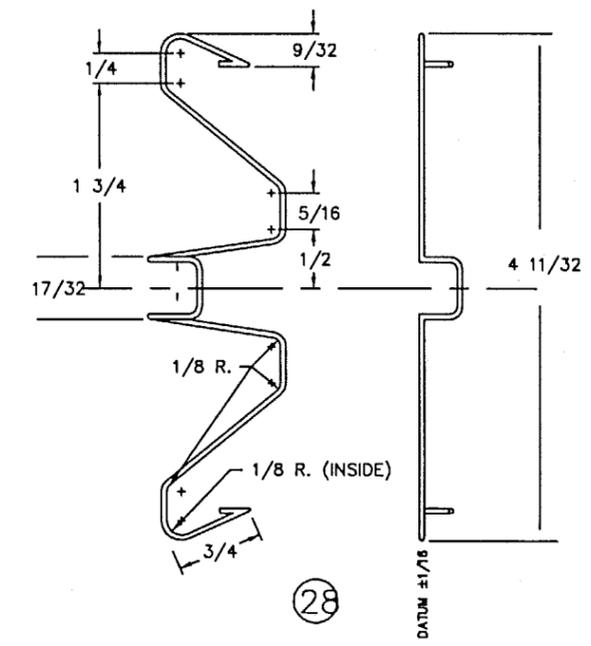
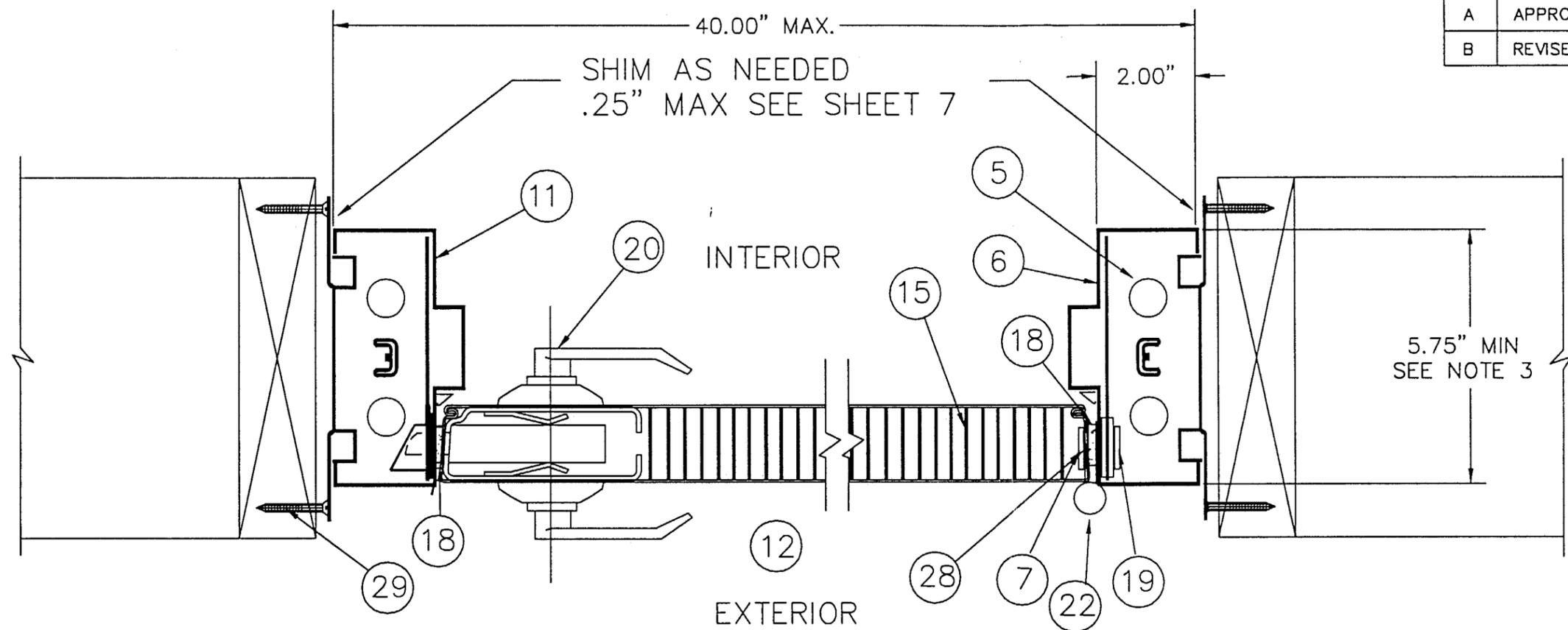
By *Mauro Perez*

PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

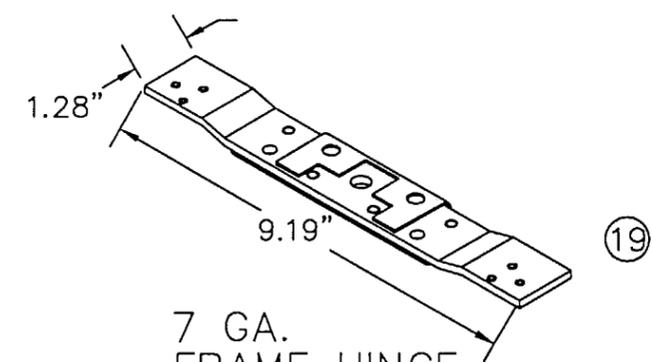
BEND RADIUS	<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 45242	
THIRD ANGLE PROJECTION	TITLE DADE COUNTY DADE COUNTY TEST UNIT L20 - 4 3070 SINGLE WITH MORTISE	
DRAWN <b>JU</b>	DATE 8.04.98	SIZE FLAT
CHECKED	APPROVED	DWG NO. NCTL 201 SHEET 4 OF 10
ENG. APPVL	SCALE: 21.5	AUTOCAD
		SHEET OF

REVISIONS

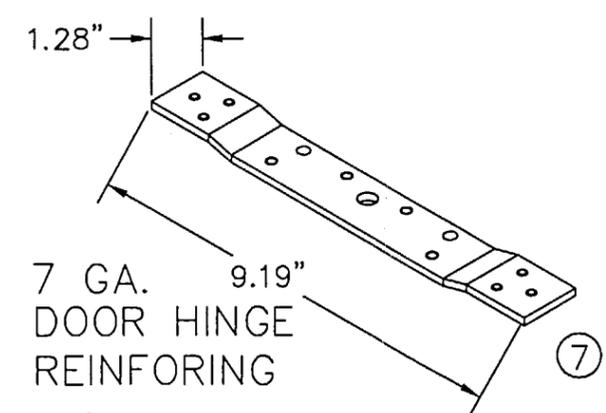
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG.	10.12.98	
B	REVISED BOM	11/03/98	



28  
.045 WIRE HINGE SPACER



19  
7 GA. FRAME HINGE REINFORCING



7  
7 GA. DOOR HINGE REINFORCING

1. SEE SHEET 4 FOR ELEVATION
2. SEE YALE FOR LOCK SETS  
KNOBS OR LEVER HANDLES  
MAY BE USED.
3. SEE SHT 8 FOR OTHER,  
JAMB DEPTHS AND SPECIFICATIONS

ITEM	QUANTITY	DESCRIPTION
5	6	JAMB ANCHOR SEE SHT 7
6	1	HINGE JAMB SIDE
7	3	HINGE REINFORCING DOOR
11	1	STRIKE JAMB WITH ASA STRIKE
15	1	CORE MATERIAL A) POLYSTYRENE B) POLYURETHANE C) HONEYCOMB D) STEEL STIFFENED
18	2	CORNER SEALS
19	3	HINGE REINFORCING FRAME
20	1	YALE 8747 SERIES MORTISE LOCKSET
22	3	STANLEY F179/1900 OR HAGER 1279 HINGES
23	2	PS074 WEATHER STRIPPING PER. JAMB
25	1	GOVERNMENT 86 LOCK REINFORCING
28	3	WIRE HINGE SPACER .045\"/>
29	12	#8 X 1 1/2\"/>

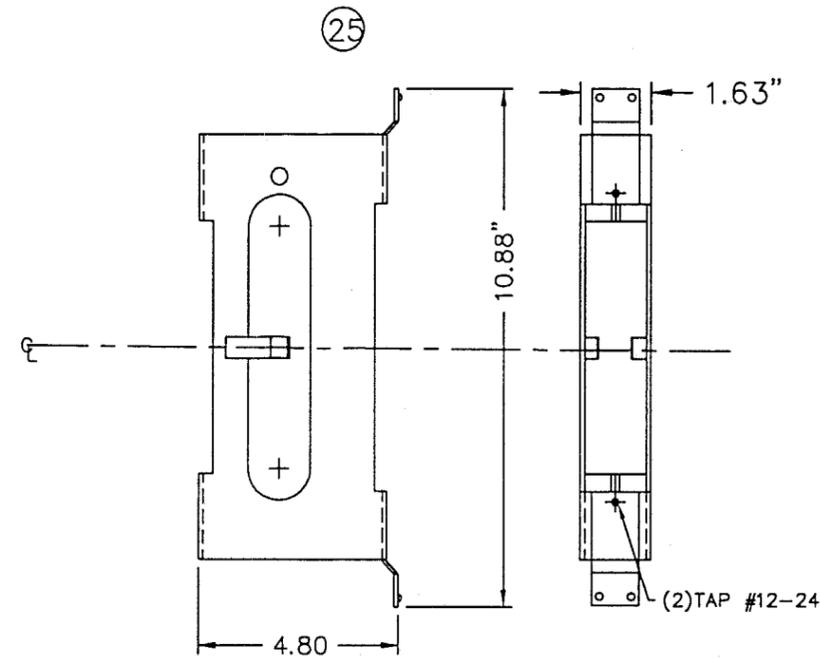
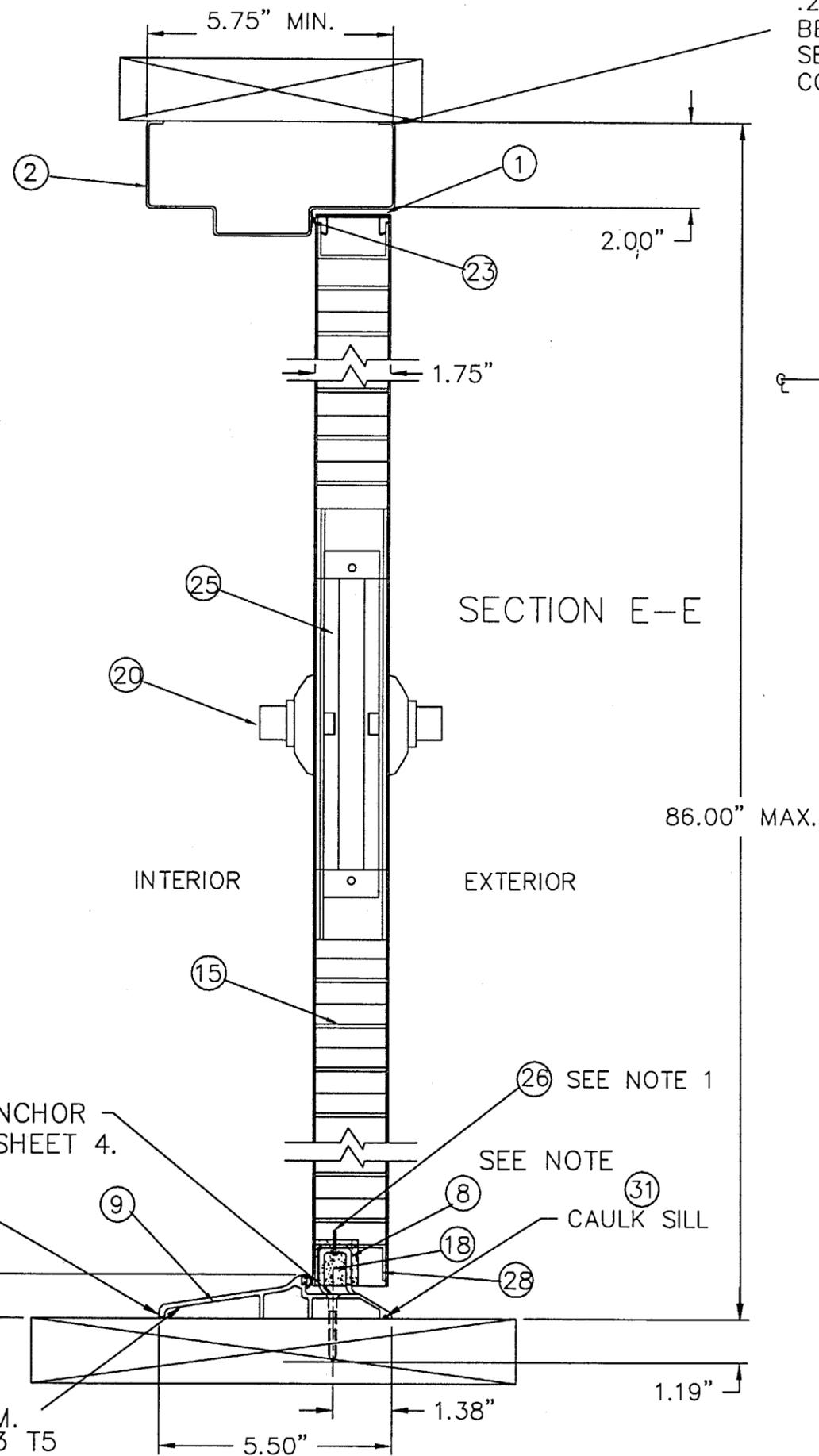
**PRODUCT RENEWED**  
 ACCEPTANCE No. 01-0129.10 DATE December 10, 1998  
 EXPIRATION DATE 11-9-06 BY Mmanuel Pura  
 By Mmanuel Pura PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 98-0310-04

BEND RADIUS		<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 45242	
THIRD ANGLE PROJECTION			
DRAWN <b>JU</b>	DATE 8.04.98	TITLE DADE COUNTY CROSS SECTION OF DOOR AND FRAME WITH MORTISE LOCK REINFORCING	
CHECKED		SIZE FLAT	DWG NO. NCTL 201 SHEET 5 OF 10
APPROVED		SCALE: 2.5	AUTOCAD
ENG. APPVL		SHEET OF	

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG.	10.12.98	
B	GENERAL REVISION	11/03/98	

.25" SHIM MAX.  
BETWEEN FRAME & OPENING  
SEE SHT 7 FOR WALL  
CONDITIONS



16 GA. GOVERNMENT  
86 LOCK REINFORCING

- NOTE:
- FOR 30 DOOR AND UNDER  
3 SCREWS 3.88" FROM ENDS  
WITH A MAX SPACING OF 13.56  
BETWEEN SCREWS
  - SEE SHEET 4 FOR ELEVATION
  - SEE YALE FOR LOCKSETS  
KNOBS, OR LEVER HANDLES  
MAY BE USED.
  - SEE SHEET 8 SINGLE AVAILABLE,  
STANDARD OPENING SIZE & SPECIFICATIONS

ITEM	QUANTITY	DESCRIPTION
1	1	TOP CAP
2	1	HEAD
4		
5	6 TOTAL	JAMB ANCHORS SEE SHEET 7
8	1	FAS-SEAL DOOR SWEEP
9	1	DURABLE PRODUCTS SILL WITH BUMPER GASKET
10	4	THRESHOLD FASTNERS SHEET METAL PHILLIPS
12		
15	1	CORE MATERIAL A) POLYSTYRENE B) POLYURETHANE C) HONEYCOMB D) STEEL STIFFENED
18	2	CORNER SEALS
20	1	YALE MORTISE LOCKSET
21		
23	3 TOTAL	PS074 WEATHER STRIPPING
25	1	MORTISE LOCK REINFORCING
26	3	#10 X .75 PHSM STEEL SCREWS
28	2	TOP AND BOTTOM CHANNEL
31	AS NEEDED	BUTYL RUBBER OR 100% SILICONE

PRODUCT RENEWED

ACCEPTANCE No. 01-0129.10

EXPIRATION DATE 11-9-06

By *Manuel Perez*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE *December 10* 19 *98*  
BY *Manuel Perez*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *98-0310-04*

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN  
*JU*

CHECKED

DATE  
8.04.98

APPROVED

ENG. APPVL

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

TITLE: PROFILE OF STEELCRAFT DOOR WITH  
MORTISE LOCK REINFORCING

SIZE: FLAT

DWG NO. NCTL 201 SHEET 6 OF 10

SCALE: 3.45 AUTOCAD

REV B

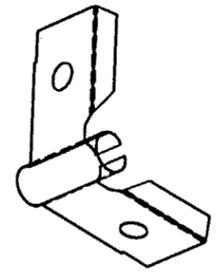
SHEET OF

MATERIAL: ALUM.  
6063 T5

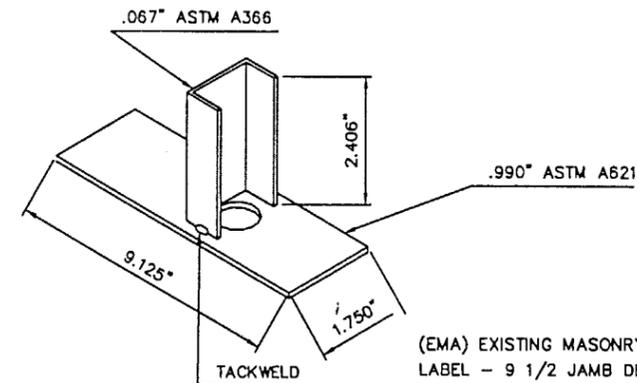
# REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
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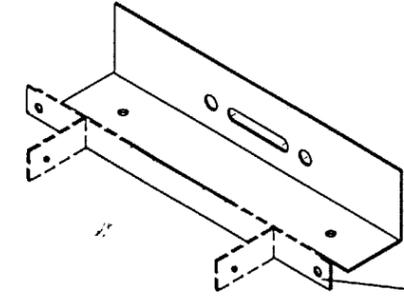
18 GA. (.042" MIN.)  
2.56" X 6.94"



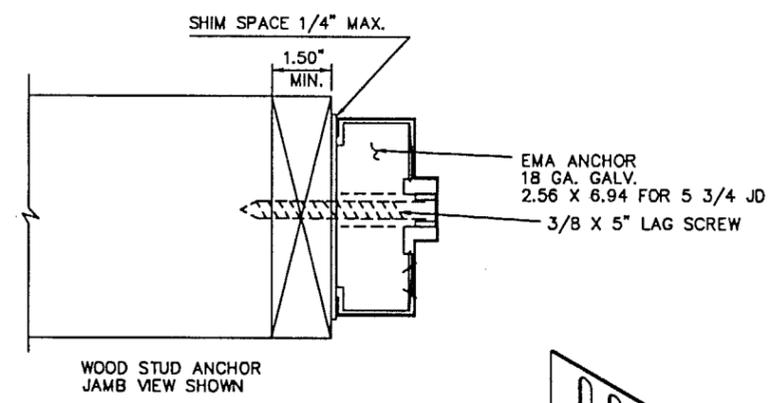
(EMA) EXISTING MASONRY ANCHOR



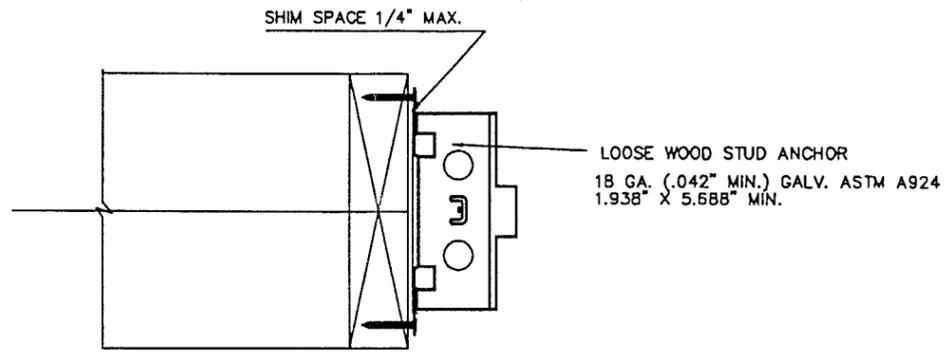
(EMA) EXISTING MASONRY ANCHOR  
LABEL - 9 1/2 JAMB DEPTH MAX.



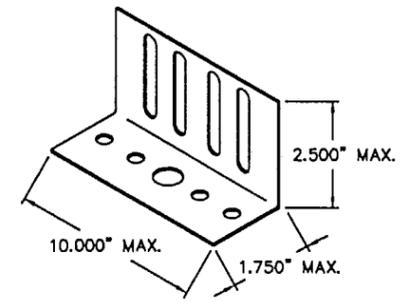
LOOSE WOOD STUD BASE ANCHOR  
18 GA. (.042" MIN.) GALV. ASTM A924  
1.938" X 1.938" X 5.250" MIN.



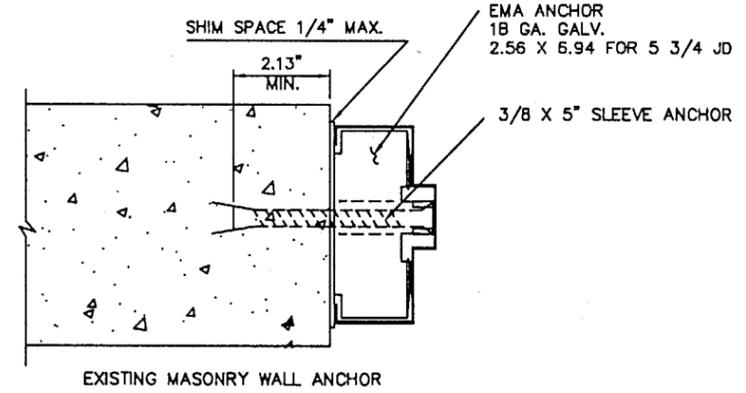
WOOD STUD ANCHOR  
JAMB VIEW SHOWN



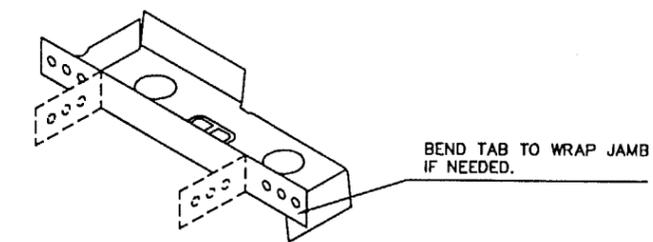
WOOD STUD ANCHOR  
JAMB VIEW SHOWN



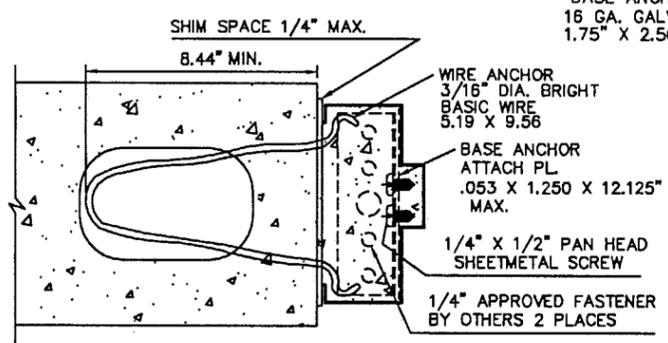
BASE ANCHOR  
18 GA. GALV. ASTM A924  
1.75" X 2.500" X 10.00"



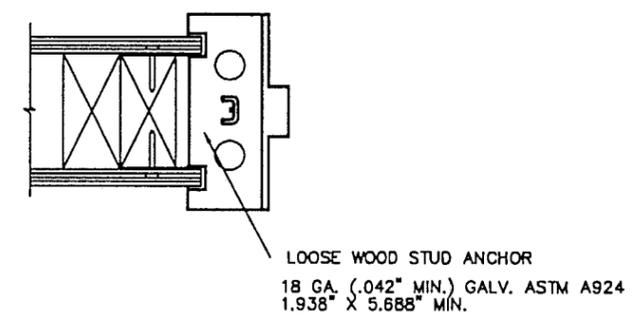
EXISTING MASONRY WALL ANCHOR



LOOSE WOOD STUD ANCHOR  
18 GA. (.042" MIN.) GALV. ASTM A924  
1.938" X 5.688" MIN.



WIRE MASONRY ANCHOR



LOOSE WOOD STUD ANCHOR  
18 GA. (.042" MIN.) GALV. ASTM A924  
1.938" X 5.688" MIN.

## PRODUCT RENEWED

ACCEPTANCE No. 01-0129.10  
EXPIRATION DATE 11-9-06  
By Mmanuel Pires  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE December 10 1998  
BY Mmanuel Pires  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE No. 98031004

BEND RADIUS				<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 45242		
THIRD ANGLE PROJECTION				TITLE DADE COUNTY ANCHOR DETAILS / MOUNTING CONDITIONS		
DRAWN <b>JU</b>	DATE 8.06.97			SIZE	FLAT	DWG NO. NCTL 201 SHEET 7 OF 10
CHECKED						REV A
APPROVED				SCALE: 1	AUTOCAD	
ENG. APPVL						

OPENING SIZE SINGLES AS STANDARD SIZES  
SLAB OPTIONS

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	10.12.98	

L, B & SL DOORS

WIDTH	HEIGHT	**	MAT'L
2'-0"	6'-8"	20	CRS
2'-4"		18	GALV.
2'-6"		16	(STA. STL.)
2'-8"		14	
2'-10"		SEE TABLE 1	SEE TABLE 2
3'-0"	7'-0"		

CE DOORS

WIDTH	HEIGHT	**	MAT'L
2'-8"	6'-8"	20	GALV.
2'-10"	6'-10"	18	
3'-0"	7'-0"	16	
		SEE TABLE 1	
		SEE TABLE 2	

F FRAMES  
FRAME OPTIONS

WIDTH SINGLE	HEIGHT	JAMB DEPTH	GA.	MAT'L
2'-0"	6'-8"	5-3/4"	16	CRS
2'-4"		6-3/4"		GALV.
2'-6"		7-3/4"		*(STA. STL.)
2'-8"		8-3/4"		12
2'-10"		10-3/4"		SEE TABLE 1
3'-0"	7'-0"	12-3/4"	SEE TABLE 1	SEE TABLE 2
		SEE NOTES		

NOTE:  
OTHER SIZE OPENINGS & JAMB DEPTHS AVAILABLE AS SPECIALS.  
ALL HEIGHTS AND WIDTHS CORRELATE  
FRAMES:  
JAMB DEPTHS AVAILABLE IN 1/8" INCREMENTS  
\* STA STL AVAILABLE IN 16 GA. ONLY  
\*\* MIN. DOOR SKIN THICKNESS

B-DOORS 18 GA MIN.  
SL-DOORS 18 GA. MAX.

SEE FACTORY FOR AVAILABILITY OF ALL PRODUCTS

MU FRAMES

WIDTH SINGLE	HEIGHT	JAMB DEPTH	GA.	MAT'L
2'-0"	6'-8"	5-3/4"	16	CRS
2'-4"		5-7/8"		GALV.
2'-6"		6-1/4"		
2'-8"		7-1/8"		
2'-10"		12-3/4"		SEE TABLE 1
3'-0"	7'-0"	SEE NOTES	SEE TABLE 2	

TABLE 2

CRS: 1008 ASTM A366
GALV: A60 ASTM A924
STL: 304,306 ASTM A240

TABLE 1

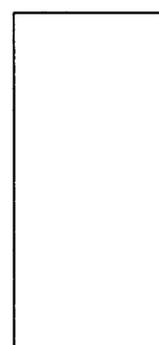
GUAGE	MIN. THK.
20	.032"
18	.042"
16	.053"
14	.067"
12	.099"

MIN. YIELD STRESS  
44,600 psi

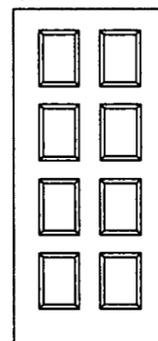
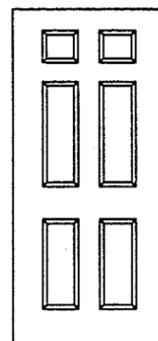
**PRODUCT RENEWED**  
ACCEPTANCE No. 01-0129.10  
EXPIRATION DATE 11-9-06  
By Manuel Perez  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE December 10, 1998  
BY Manuel Perez  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 98-0310-04

FLUSH DOORS MODELS  
L  
B  
SL



EMBOSSSED DOOR MODELS  
CE  
6 & 8  
PANEL  
ONLY



BEND RADIUS

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

THIRD ANGLE PROJECTION

DRAWN JU DATE 8.04.98

CHECKED

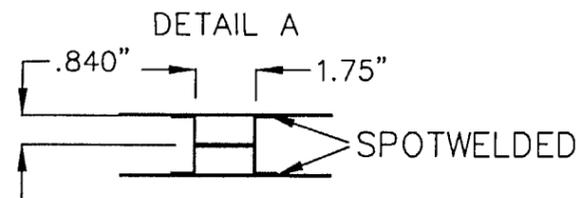
APPROVED

ENG. APPVL

TITLE DADE COUNTY  
OPENING SIZE, DOOR SPECS. & SLAB OPTIONS

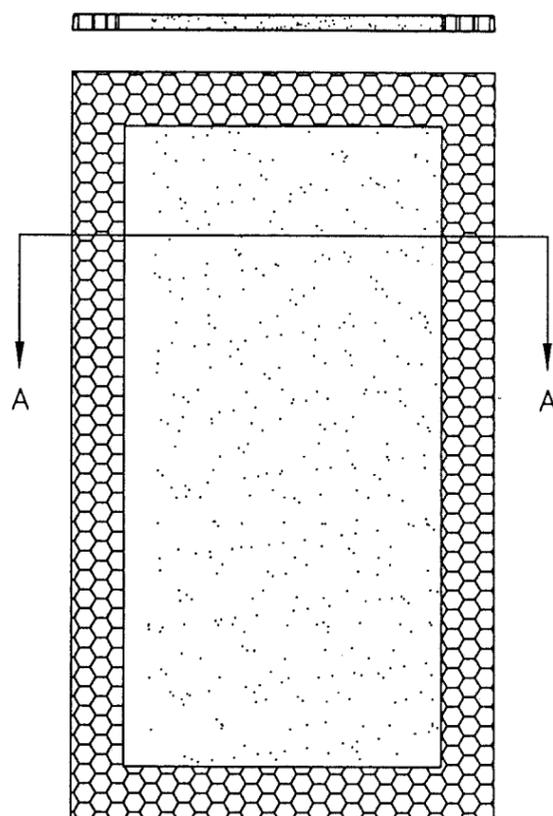
SIZE FLAT DWG NO. NCTL 201SHEET 8 OF 10 REV A

SCALE: 1 AUTOCAD



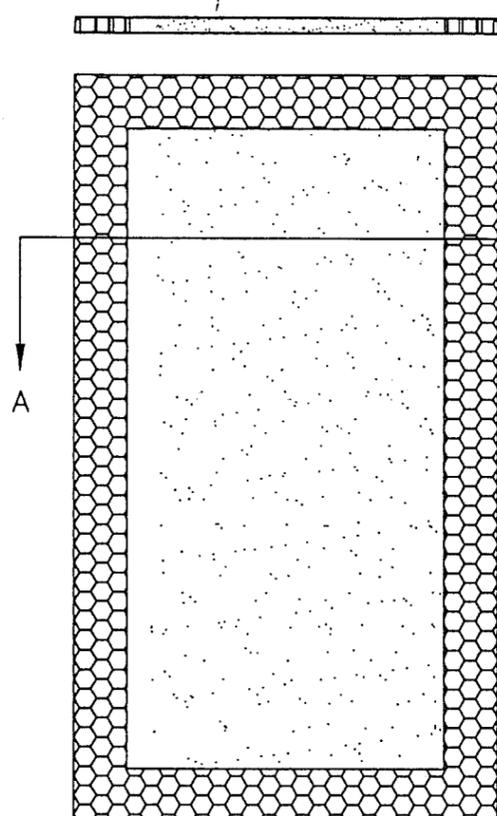
SECTION A-A

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	10.12.98	



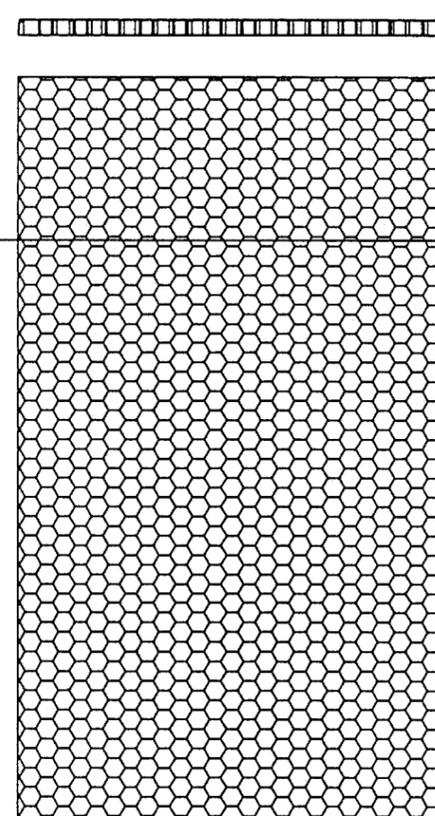
(A) POLYSTYRENE

HUNTSMAN CHEMICAL CORP.  
EXPANDED POLYSTYRENE FOAM  
GRADES 54 & 86  
DENSITY - 1.0 LBS/CUFT  
OR  
THERMOSAFE EXPANDED  
POLYSTYRENE BR4X- 4L19  
DENSITY- 1.0 lb CUFT



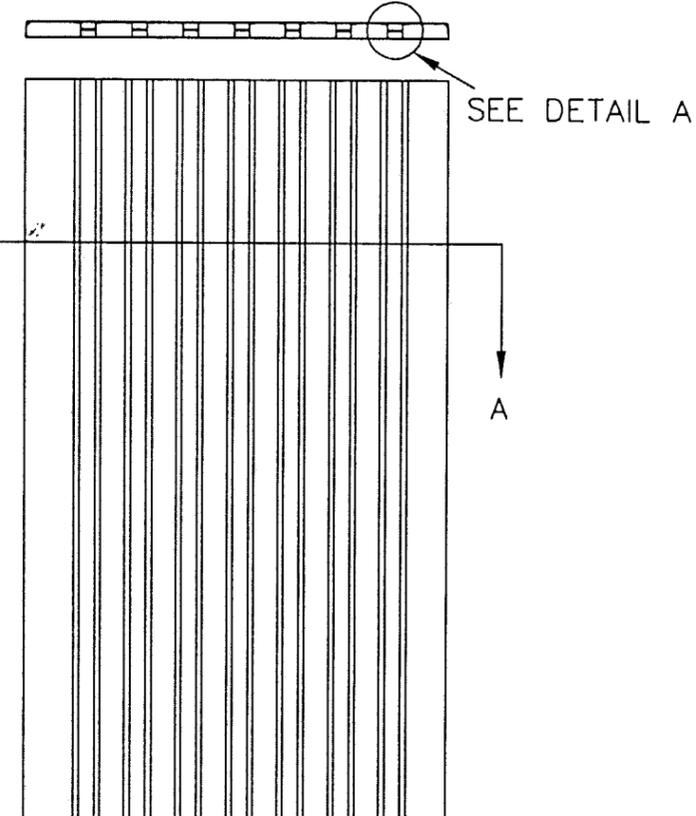
(B) POLYURETHANE

DOW CHEMICAL TRYMER 2000  
DENSITY-1.8 LBS/CUFT MIN.



(C) HONEYCOMB

PHENOLIC RESIN IMPREGNATED  
KRAFT PAPER 1" CELL SIZE



(D) STEEL STIFFENED

HAT SHAPED SECTIONS 20 GA.  
MIN. WELDED 6" O.C. TO INSIDE  
FACE SHEETS, HAT SHAPE  
STIFFENERS TO BE WELDED  
TOGETHER AT TOP & BOTTOM

DOOR WIDTH	STIFFENERS
2'2", 2'0"	3
2'4", 2'6"	4
2'10", 3'0"	5

NOTE:  
CORE MATERIAL SHOWN  
WITHOUT HARDWARE REINFORCMENTS

**PRODUCT RENEWED**

ACCEPTANCE No. 01-0129.10

EXPIRATION DATE 11-9-06

By Manuel Perry

PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE

DATE December 10, 1998

BY Manuel Perry

PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

ACCEPTANCE NO. 98-0310.04

BEND RADIUS	
THIRD ANGLE PROJECTION	
DRAWN	DATE
JU	8.04.98
CHECKED	
APPROVED	
ENG. APPVL	

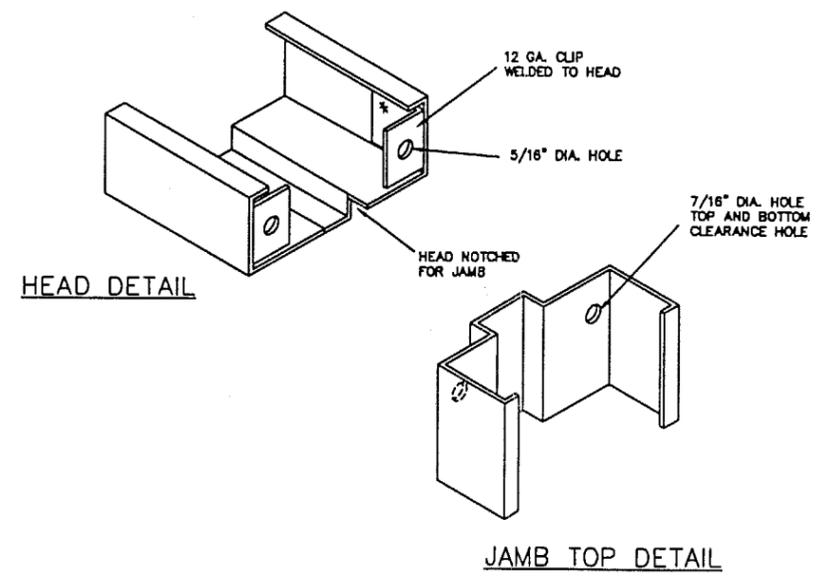
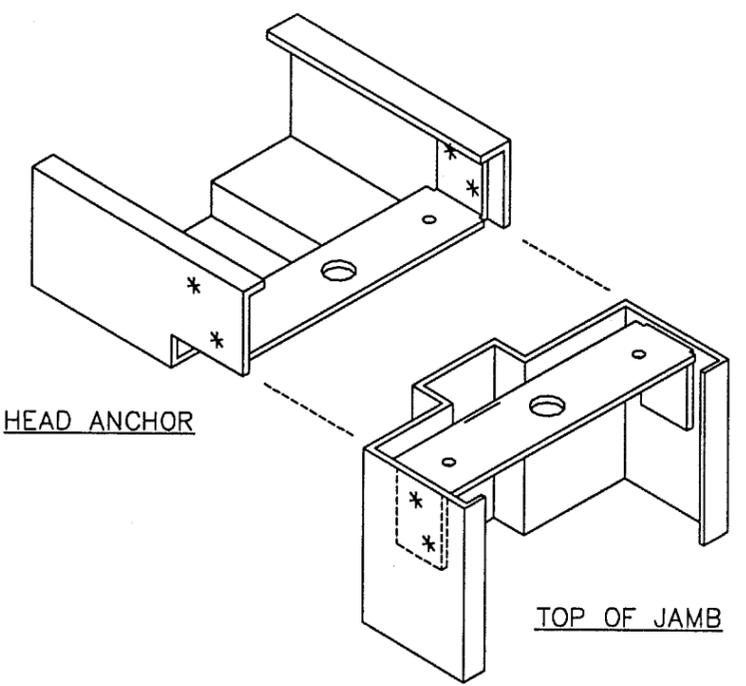
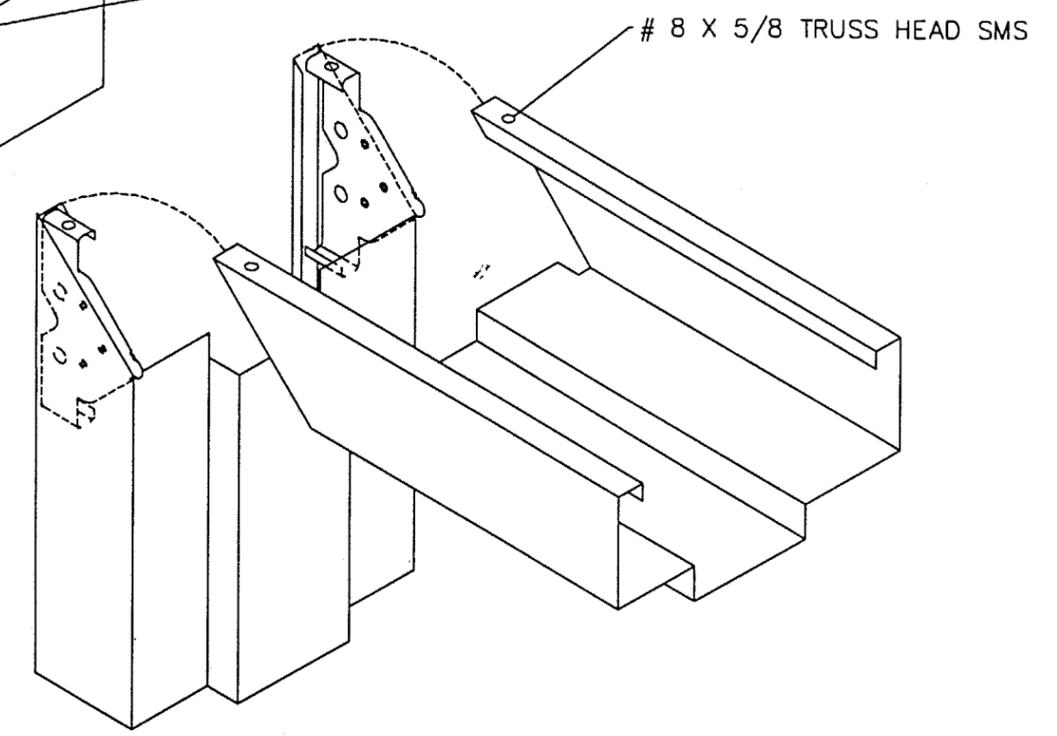
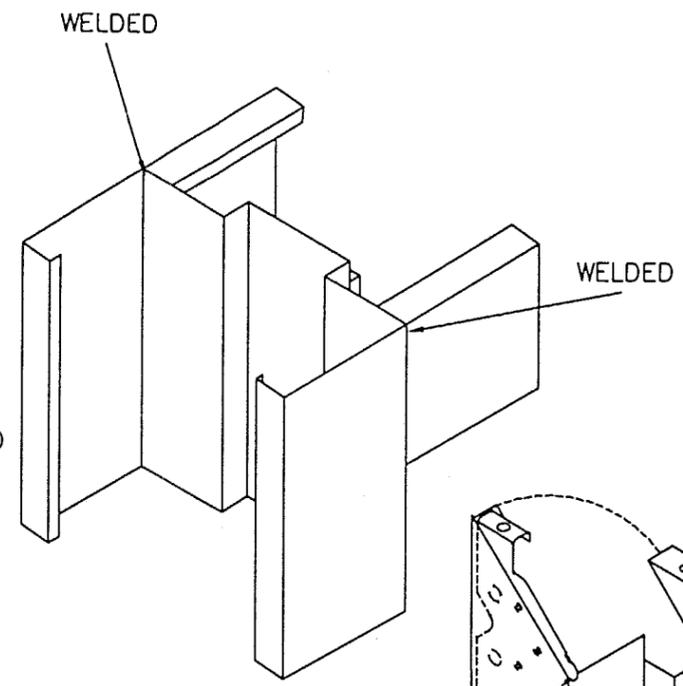
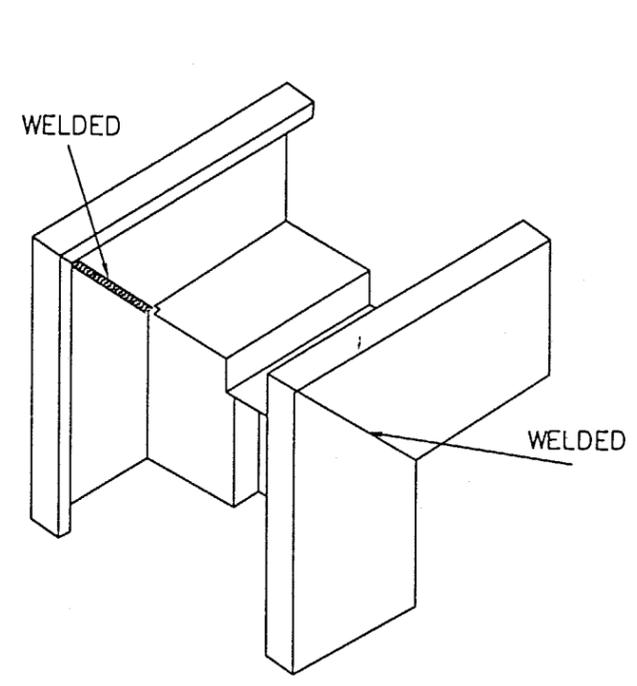
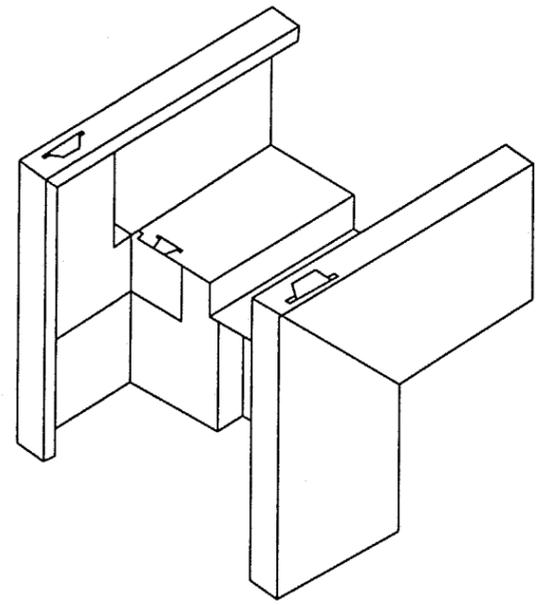
**INGERSOLL-RAND COMPANY**  
STEELCRAFT MFG.  
9017 BlueAsh Rd. Cincinnati Ohio 45242

TITLE DADE COUNTY  
DADE COUNTY TEST UNIT  
CORE MATERIALS  
OPTIONS

SIZE	FLAT	DWG NO.	REV
		NCTL 201 SHEET 9 OF 10	A
SCALE:	21	AUTOCAD	

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	10.12.98	



**PRODUCT RENEWED**

ACCEPTANCE No. 01-0129.10  
 EXPIRATION DATE 11-9-06  
 BY Manuel Perez  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE December 10 19 98  
 BY Manuel Perez  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 98-0310-04

BEND RADIUS	
THIRD ANGLE PROJECTION	
DRAWN	DATE
JU	8.04.98
CHECKED	
APPROVED	
ENG. APPVL.	

<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 45242			
TITLE DADE COUNTY CORNER DETAILS FOR FLUSH FRAME AND MU FRAMES			
SIZE	FLAT	DWG NO.	REV
		NCTL 201 SHEET 10 OF 10	A
SCALE:	2	AUTOCAD	