



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

**NOTICE OF ACCEPTANCE (NOA)**

**Detex Corporation**  
302 Detex Drive  
New Branufels, TX 78130

**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 the BCCO and accepted by the Building Code and Product Review Committee (BCPRC) 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 BCCO (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. BCPRC reserves the right to revoke this acceptance, if it is determined by BCCO 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: Detex Series "H-10, H-40 & HV-40" Fire/Panic Exit Device-Impact (Component Approval)**

**APPROVAL DOCUMENT:** Drawing No. **DADE05**, titled "Advantex / Value Series RIM Panic Exit Hardware" sheets 1 through 8 of 8, dated 06/09/04 and last revised on 03-15-05, prepared by Tiltco, Inc., signed and sealed by Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

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

**Limitation: Fire rating is not part of this approval**

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

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

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

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

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

This NOA consists of this page 1 and evidence pages E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



**NOA No 04-0810.04**  
**Expiration Date: April 07, 2010**  
**Approval Date: April 07, 2005**  
**Page 1**

4/1/05

**Detex Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **DADE05**, titled "Advance / Value Series RIM Panic Exit Hardware" sheets 1 through 8 of 8, dated 06/09/04 and last revised on 03-15-05, prepared by Toltec, Inc., signed and sealed by Walter A. Tillie Jr., P.E.

**B. TESTS**

1. Test reports on
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94Along with installation diagrams of Panic exit devices, prepared by Hurricane Test Laboratory, LLC. Test Report No. **HTL-0345-0203-04**, dated 02-11 thru 21-2004, signed and sealed by Vine J. Abraham, P.E.

**C. CALCULATIONS:**

1. Mullion anchor verification calculation dated 01/28/05, prepared by Toltec, Inc, signed and sealed by Walter A. Tillie Jr., P.E.

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO)

**E. MATERIAL CERTIFICATIONS**

1. None

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest dated 05/12/04, signed and sealed by Walter A. Tillie, P.E.
2. Statement letter of Lab compliance, as part of above test reports.

**G. OTHER**

1. Reference NOA# 04-0611.04 (Ceco Door Product).

*Ishaq I. Chanda*

Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 04-0810.04

Expiration Date: April 07, 2010

Approval Date: April 07, 2005

**GENERAL NOTES FOR ADVANTEX H10 & FH10\* SERIES (WIDE) & ADVANTEX H40 & FH40\* SERIES (NARROW) RIM DEVICE SINGLE DOOR APPLICATION:**

1. ADVANTEX RIM PANIC EXIT HARDWARE, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) FOR A MIAMI-DADE COUNTY COMPONENT APPROVAL HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2001 EDITION OF THE FLORIDA BUILDING CODE. ADVANTEX RIM PANIC EXIT HARDWARE MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1619 OF THE ABOVE MENTIONED CODE.

THESE ADVANTEX RIM PANIC EXIT HARDWARE DEVICES' ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAVE BEEN VERIFIED IN ACCORDANCE WITH SECTION 1606.1.4 OF THE ABOVE MENTIONED CODE AS PER TAS-201, TAS-202, TAS-203, AS PER HTL LAB REPORT #0345-0203-04.

2. DESIGN PRESSURE RATING SINGLE DOORS:

POSITIVE	+70 PSF,
NEGATIVE	-70 PSF.

3. ADVANTEX RIM PANIC EXIT HARDWARE SHALL COMPLY W/ SECTIONS 1012.1.2, 1012.1.6, 1012.1.8, 1019.7, 1021.3 & 11-4.13.11 OF THE FLORIDA BUILDING CODE 2001 EDITION AND ALL OTHER RELEVANT APPLICABLE SECTIONS OF THE CODE.

4. ALL REINFORCEMENTS TO BE SPOT WELDED OR BETTER BY DOOR MANUFACTURER.

5. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS.

6. ADVANTEX PANIC EXIT DEVICE 10 AND 40 SERIES RIM CAN BE SUPPLIED WITH THE FOLLOWING ELECTRIFIED OPTIONS: (NOT PART OF THIS APPROVAL) EA, ED, EE, EI, EM, ER, ES, EX, W, CD, HD & LD. PERFORMANCE OF ELECTRIFIED OPTION NOT PART OF THIS APPROVAL, BUT SHALL BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY.

7. ADVANTEX PANIC EXIT DEVICE 10 AND 40 SERIES RIM CAN BE SUPPLIED WITH THE FOLLOWING TRIM DESIGNATIONS:

01PO, 02CH(N), 02DA(N), 02LS(N), 02TA(N), 03CH(N), 03PR(N), 03WG, 03WS(N), 08BR(N), 08DA(N), 08LS(N), 08MC(N), 08TA(N), 09BR(N), 09DA(N), 09LS(N), 09MC(N), 09TA(N), 14BR(N), 14DA(N), 14LS(N), 14TA(N)

(N) PROVIDED ONLY ON ADVANTEX 40 SERIES DEVICES.

8. (A) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(C) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(D) THIS P.A.D. SHALL BEAR THE ORIGINAL DATE AND SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

9. PANIC DEVICE'S MANUFACTURER LABEL SHALL BE PLACED ON A RAPIDLY VISIBLE LOCATION AND LABEL SHALL BE PLACED FOR EVERY SYSTEM. LABEL SHALL READ AS FOLLOWS:

DETEX CORPORATION or Detex company logo  
NEW BRAUNFELS, TX 78130  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

**BILL OF MATERIAL FOR ADVANTEX H10 & FH10\* SERIES (WIDE) & ADVANTEX H40 & FH40\* SERIES (NARROW) RIM DEVICE SINGLE DOOR APPLICATION**

ITEM	DESCRIPTION	COMMENTS	QTY PER DOOR	MATERIAL
1	MIAMI-DADE COUNTY APPROVED SINGLE DOOR & FRAME		1	
2	DETEX ADVANTEX H10 & FH10 SERIES	WIDE	1	302 & 304 S.S., 16 & 13 GAGE CRS METAL AND ALUM. 6063-T5 ALLOY AND TEMPER.
	DETEX ADVANTEX H40 & FH40 SERIES	NARROW		
3	MOUNTING PLATE, 10 SERIES	WIDE	1	13 GAGE CRS METAL
	MOUNTING PLATE, 40 SERIES	NARROW		
4	ENDCAP BRACKET		1	13 GAGE CRS METAL
5	ENDCAP		1	14 GAGE 304 OR 316 S.S.
6	OUTSIDE TRIM (SEE GENERAL NOTE 7)	OPTIONAL	A/R	DA(N)=BRASS FORMING LS(N)=BRASS FORMING TA(N)=BRASS FORMING WS(N)=BRASS FORMING CH(N)=13 GAGE 304 S.S. PO=13 GAGE 304 S.S. PR(N)=0.16" THICK 5052-H32 ALUM. AT(N)=16 GAGE CRS METAL WG=16 GAGE 304 S.S. BR(N)=ZINC DIE CASTING MC(N)=ZINC DIE CASTING LM(N)=ZINC DIE CASTING
7	CHASSIS COVER, 10 SERIES	WIDE	1	17 GA. 304 S.S.
	CHASSIS COVER, 40 SERIES	NARROW		
8	SURFACE STRIKE		1	S.S. 302 INVESTMENT CAST (FY=30KSI)
9	1/4-20 P.H.P.M.S.	WIDE	10	
	1/4-20 P.H.P.M.S.	NARROW	8	
10	10-32 F.H.P.U.C.M.S.		2	
11	10-24 F.H.P.U.C.M.S.		1	
12	6-32 F.H.P.U.C.M.S.		4	
13	1/4-20 P.H.P.M.S.		2	
14	HINGE		3	
19	DADE COUNTY N.O.A LABEL (GENERAL NOTE #9)		1	
20	1.75"x7" FRAME STRIKE REINFORCEMENT		1	12 GA. MIN. STEEL
21	3/4" MIN. THROW LATCHBOLT		1	S.S. 304 OR 316 POWDERED METAL (FY=47KSI)

**LIMITATIONS:**

1. THIS PANIC DEVICE IS APPROVED TO BE EQUAL ALTERNATIVE HARDWARE TO BE USED IN SINGLE STEEL COMMERCIAL DOORS MADE WITH 16 GA. STEEL FRAME AND 16 GA. (.053" MIN.) STEEL DOOR (MIN. Fy = 38 ksi), HOLDING CURRENT NOA. THE LOWEST DESIGN PRESSURE RATING OF THE DOORS OR THE COMPONENT SHALL GOVERN.

2. THE DOORS SHALL MEET FOLLOWING SPECIFICATIONS:

- 2.1 DOOR SLAB MUST NOT BE WIDER THAN 48" AND HIGHER THAN 83.5". THE DOOR SHALL BE 1 3/4" MIN. OVERALL THICKNESS, FILLED WITH FBC APPROVED FOAM CORE.
- 2.2 DOOR SLAB TO BE REINFORCED WITH MIN. TWO (2) 12 GA. STEEL HORIZONTAL "STIFFENERS".
- 2.3 7 GA. STEEL HINGE PLATE REINFORCEMENT AT HINGE STILE AND AT THE FRAME.
- 2.4 FULL-WIDTH 12 GA. STEEL C-CANNEL TOP & BOTTOM END OF THE DOORS.
- 2.5 MIN. 12 GA. STEEL REINFORCEMENT AT STRIKE PLATE.
- 2.6 MIN. 12 GA. STEEL "U" CHANNEL AT LOCK STILE.

3.0 ELECTRICAL INSTALLATION & FIRE RATINGS ARE NOT PART OF THIS APPROVAL AND SUCH INSTALLATION MUST BE REVIEWED BY APPLICABLE BUILDING AUTHORITY.

UNDERWRITER'S LABORATORIES - UL10C, UBC 7-2 (1997) ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE FOR INFORMATION ONLY. (NOT PART OF THE APPROVAL)

**ELECTRIFIED ABBREVIATIONS MEANING:**

EA = ELECTRONIC EXIT ALARM MODEL  
ED = ELECTRONIC DOGGING MODEL  
EE = DELAY EGRESS  
EI = ELECTRONIC INTEGRATION  
EM = DELAY EGRESS WITH MAGNETIC LOCKING  
ER = ELECTRONIC LOCK/UNLOCK  
ES = ELECTRONIC LATCH RETRACTION  
EX = ELECTRONIC SIGNAL SWITCH  
W = WEATHERIZED  
CD = CYLINDER DOGGING  
HD = HEX DOGGING  
LD = LESS DOGGING

**TYPE TRIM ABBREVIATIONS MEANING:**

DA = DAYTONA  
LS = LAGUNA SEGA  
TA = TALLADEGA  
WS = WILLOW SPRINGS  
CH = CHARLOTTE  
PO = POCOMO  
PR = PORTLAND  
AT = ATLANTA  
WG = WATKINS GLEN  
BR = BRISTOL  
MC = MONTE CARLO  
LM = LA MANA  
\*(N) SUFFIX SIGNIFIES NARROW TRIM DEVICE  
\*\* PREFIX SIGNIFIES FIRE RATE RIM PANIC DEVICES

**FASTENERS ABBREVIATIONS MEANING:**

P.H.P.M.S. = PAN HEAD PHILLIPS MACHINE SCREW  
F.H.P.U.C.M.S. = FLAT HEAD PHILLIPS UNDERCLUT MACHINE SCREW  
F.H.P.M.S. = FLAT HEAD PHILLIPS MACHINE SCREW  
S.H.C.S. = SOCKET HEAD CAP SCREW

P. ENGINEER'S SEAL

*David J. Chands*  
MAR 15 2005

**MIAMI-DADE COUNTY**

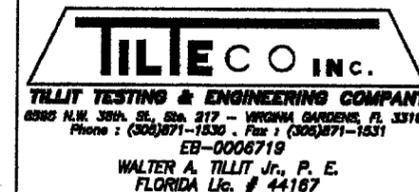
Approved as complying with the Florida Building Code  
Date: APRIL 07, 2005  
NOA# 04-0810-04  
Miami Dade Product Control Division  
By: *J. Chands*

**DETEX CORPORATION**  
302 DETEX DRIVE  
NEW BRAUNFELS, TX 78130

DATE: 6/9/04 DRAWN BY: DRS

SHEET TITLE: ADVANTEX SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: DADE05 SHEET 1 of 8



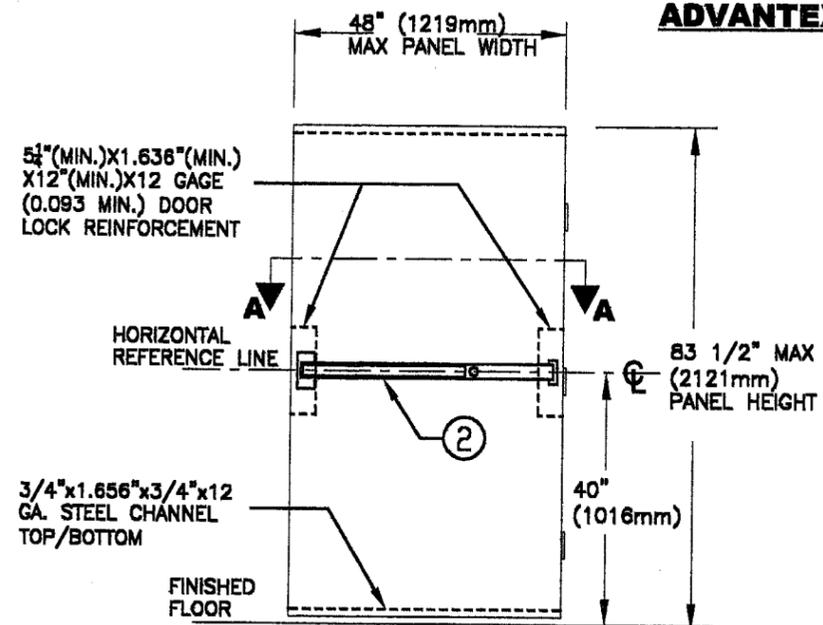
**ADVANTECH H10 & FH10\* SERIES (WIDE) & ADVANTECH H40 & FH40\* SERIES (NARROW) RIM DEVICE  
INSTALLATION FOR HURRICANE CODE. SINGLE DOOR APPLICATION**

UNDERWRITER'S LABORATORIES - UL10C,  
UBC 7-2 (1997)  
ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE  
FOR INFORMATION ONLY.  
(NOT PART OF THE APPROVAL)

**ELECTRIFIED ABBREVIATIONS MEANING:**  
EA = ELECTRONIC EXIT ALARM MODEL  
ED = ELECTRONIC DOGGING MODEL  
EE = DELAY EGRESS  
EI = ELECTRONIC INTEGRATION  
EM = DELAY EGRESS WITH MAGNETIC LOCKING  
ER = ELECTRONIC LOCK/UNLOCK  
ES = ELECTRONIC LATCH RETRACTION  
EX = ELECTRONIC SIGNAL SWITCH  
W = WEATHERIZED  
CD = CYLINDER DOGGING  
HD = HEX DOGGING  
LD = LESS DOGGING

**TYPE TRIM ABBREVIATIONS MEANING:**  
DA = DAYTONA  
LS = LAGUNA SEGA  
TA = TALLADEGA  
WS = WILLOW SPRINGS  
CH = CHARLOTTE  
PO = POCONO  
PR = PORTLAND  
AT = ATLANTA  
WG = WATKINS GLEN  
BR = BRISTOL  
MC = MONTE CARLO  
LM = LA MANS  
\*(N) SUFFIX SIGNIFIES NARROW TRIM DEVICE  
\*\* PREFIX SIGNIFIES FIRE RATE RIM PANIC DEVICES

**FASTENERS ABBREVIATIONS MEANING:**  
P.H.P.M.S. = PAN HEAD PHILLIPS MACHINE SCREW  
F.H.P.U.C.M.S. = FLAT HEAD PHILLIPS UNDERCUT MACHINE SCREW  
F.H.P.M.S. = FLAT HEAD PHILLIPS MACHINE SCREW  
S.H.C.S. = SOCKET HEAD CAP SCREW

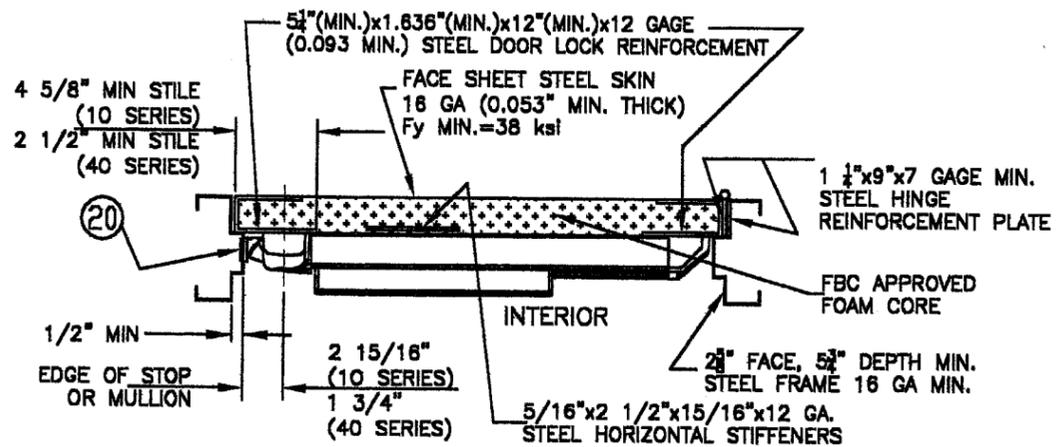


**INTERIOR ELEVATION**

N.T.S.

DESIGN PRESSURE RATING SINGLE DOORS:

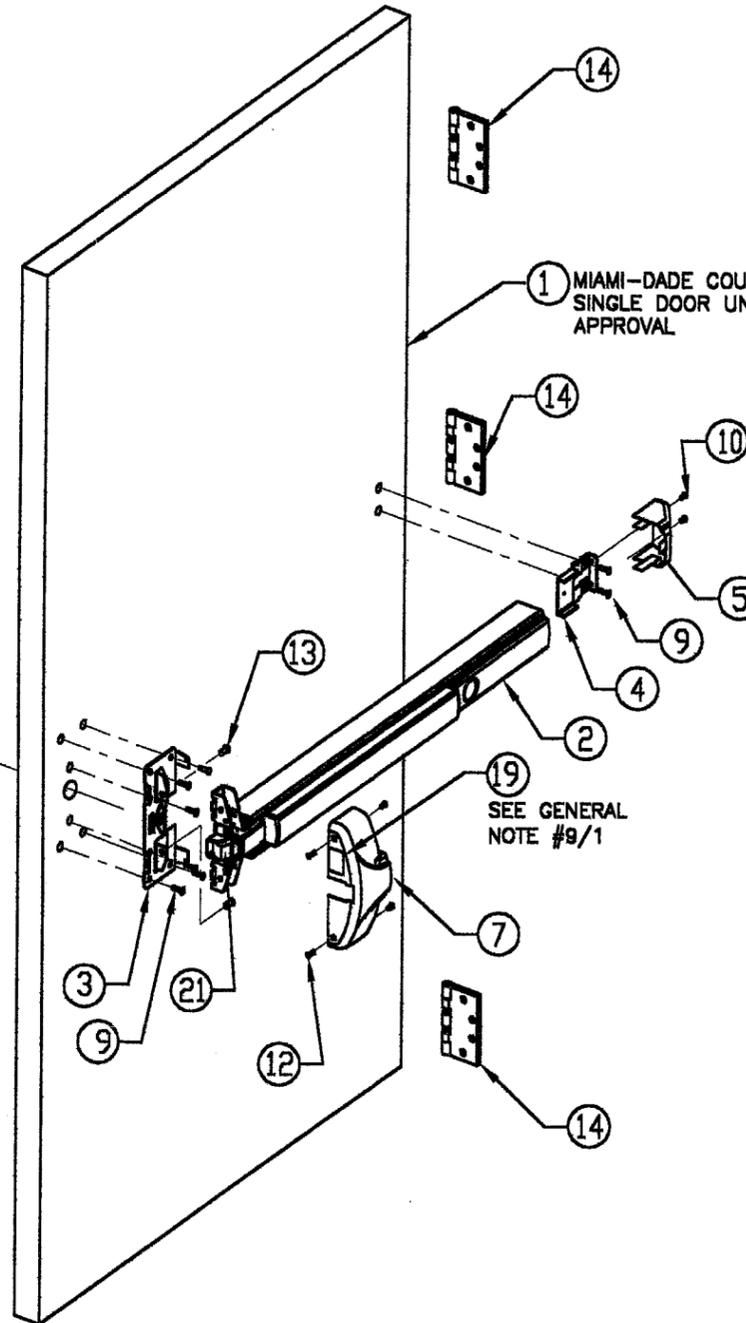
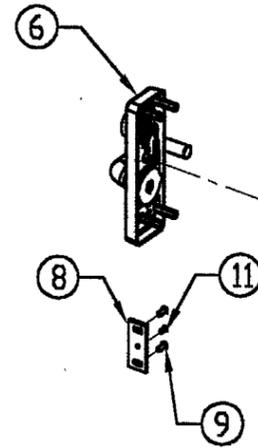
POSITIVE	+70 PSF.
NEGATIVE	-70 PSF.



**SECTION A-A**

N.T.S.

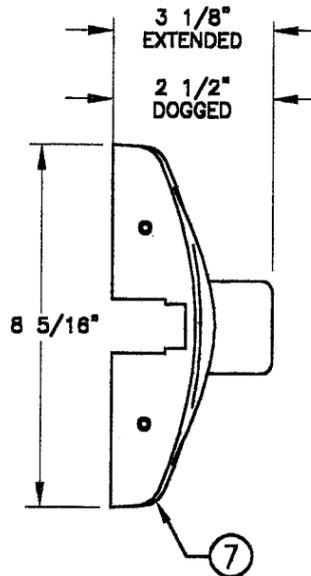
SEE GENERAL NOTE 7



**ASSEMBLY (ISOMETRIC)**

N.T.S.

WIDE STILE 10 SERIES SHOWN



P. ENGINEER'S SEAL

MAR 15 2005

MIAMI-DADE COUNTY

Approved as complying with the Florida Building Code  
Date April 07, 2005  
NOA# 04-0810-04  
Miami Dade Product Control Division  
By: *Isaac L. Chanda*

**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6992 N.W. 36th St., Ste. 217 - VIRGINIA GARDENS, FL 33189  
Phone: (305)871-1530 Fax: (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P. E.  
FLORIDA Lic. # 44187

**DETECH CORPORATION**  
302 DETEX DRIVE  
NEW BRAUNFELS, TX 78130

DATE: 6/9/04 DRAWN BY: DRS

SHEET TITLE: ADVANTECH SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: DADE05 SHEET 2 of 8

**GENERAL NOTES FOR ADVANTEX H10 & FH10\* SERIES (WIDE) AND ADVANTEX H40 & FH40\* SERIES (NARROW) RIM DEVICE W/ YALE MULLION. DOUBLE DOOR APPLICATION:**

1. ADVANTEX RIM PANIC EXIT HARDWARE, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) FOR A MIAMI-DADE COUNTY COMPONENT APPROVAL HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2001 EDITION OF THE FLORIDA BUILDING CODE. ADVANTEX RIM PANIC EXIT HARDWARE MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1619 OF THE ABOVE MENTIONED CODE.

THESE ADVANTEX RIM PANIC EXIT HARDWARE DEVICES' ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAVE BEEN VERIFIED IN ACCORDANCE WITH SECTION 1606.1.4 OF THE ABOVE MENTIONED CODE AS PER TAS-201, TAS-202, TAS-203, AS PER HTL LAB REPORT #0345-0203-04.

2. DESIGN PRESSURE RATING DUBLE DOORS W/ YALE SERIES M-100 MULLION:

POSITIVE	+70 PSF,
NEGATIVE	-70 PSF.

3. ADVANTEX RIM PANIC EXIT HARDWARE SHALL COMPLY W/ SECTIONS 1012.1.2, 1012.1.6, 1012.1.8, 1019.7, 1021.3 & 11-4.13.11 OF THE FLORIDA BUILDING CODE 2001 EDITION AND ALL OTHER RELEVANT APPLICABLE SECTIONS OF THE CODE.

4. ALL REINFORCEMENTS TO BE SPOT WELDED OR BETTER BY DOOR MANUFACTURER.

5. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS.

6. ADVANTEX PANIC EXIT DEVICE 10 AND 40 SERIES RIM CAN BE SUPPLIED WITH THE FOLLOWING ELECTRIFIED OPTIONS: (NOT PART OF THIS APPROVAL) EA, ED, EE, EI, EM, ER, ES, EX, W, CD, HD & LD. PERFORMANCE OF ELECTRIFIED OPTION NOT PART OF THIS APPROVAL, BUT SHALL BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY.

7. ADVANTEX PANIC EXIT DEVICE 10 AND 40 SERIES RIM CAN BE SUPPLIED WITH THE FOLLOWING TRIM DESIGNATIONS: 01PO, 02CH(N), 02DA(N), 02LS(N), 02TA(N), 03CH(N), 03PR(N), 03WG, 03WS(N), 08BR(N), 08DA(N) 08LS(N), 08MC(N), 08TA(N), 09BR(N), 09DA(N), 09LS(N), 09MC(N), 09TA(N), 14BR(N), 14DA(N), 14LS(N), 14TA(N)

(N) PROVIDED ONLY ON ADVANTEX 40 SERIES DEVICES.

8. (A) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(C) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(D) THIS P.A.D. SHALL BEAR THE ORIGINAL DATE AND SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

9. PANIC DEVICE'S MANUFACTURER LABEL SHALL BE PLACED ON A RAPIDLY VISIBLE LOCATION AND LABEL SHALL BE PLACED FOR EVERY SYSTEM. LABEL SHALL READ AS FOLLOWS: DETEX CORPORATION or Detex company logo  
NEW BRAUNFELS, TX 78130  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

**BILL OF MATERIAL FOR ADVANTEX H10 & FH10\* SERIES (WIDE) AND ADVANTEX H40 & FH40\* SERIES (NARROW) RIM DEVICE W/ YALE MULLION. DOUBLE DOOR APPLICATION**

ITEM	DESCRIPTION	COMMENTS	QTY PER DOOR	MATERIAL
1	MIAMI-DADE COUNTY APPROVED DOUBLE DOOR & FRAME			
2	DETEX ADVANTEX H10 & FH10 SERIES	WIDE	1	302 & 304 S.S., 16 & 13 GAGE CRS METAL AND ALUM. 6063-T5 ALLOY AND TEMPER.
	DETEX ADVANTEX H40 & FH40 SERIES	NARROW		
3	MOUNTING PLATE, 10 SERIES	WIDE	1	13 GAGE CRS METAL
	MOUNTING PLATE, 40 SERIES	NARROW		
4	ENDCAP BRACKET		1	13 GAGE CRS METAL
5	ENDCAP		1	14 GAGE 304 OR 316 S.S.
6	OUTSIDE TRIM (SEE GENERAL NOTE 7)	OPTIONAL	A/R	DA(N)=BRASS FORMING LS(N)=BRASS FORMING TA(N)=BRASS FORMING WS(N)=BRASS FORMING CH(N)=13 GAGE 304 S.S. PO=13 GAGE 304 S.S. PR(N)=0.16" THICK 5052-H32 ALUM. AT(N)=18 GAGE CRS METAL WG=16 GAGE 304 S.S. BR(N)=ZINC DIE CASTING MC(N)=ZINC DIE CASTING LM(N)=ZINC DIE CASTING
7	CHASSIS COVER, 10 SERIES	WIDE	1	17 GA. 304 S.S.
	CHASSIS COVER, 40 SERIES	NARROW		
8	SURFACE STRIKE		1	S.S. 302 INVESTMENT CAST (FY=30KSI)
9	1/4-20 P.H.P.M.S.	WIDE	10	
	1/4-20 P.H.P.M.S.	NARROW	8	
10	10-32 F.H.P.U.C.M.S.		2	
11	10-24 F.H.P.U.C.M.S.		1	
12	6-32 F.H.P.U.C.M.S.		4	
13	1/4-20 P.H.P.M.S.		2	
14	HINGE		3	
15	1 1/2"(MIN.)x3"(MIN.)x3/16"(MIN.) THICKx7'-0" LONG STEEL YALE MULLION SERIES M-100		1	ASTM A-500 GRADE B, W/ FY(MIN.)=46 KSI & FU(MIN.)=58 KSI
16	1/4-20 F.H.P.M.S. (INTO DOOR HEADER FRAME)		4	STEEL
17	3/8"Ø, STEEL DROP-IN BY POWERS FASTENERS W/ 1 9/16" EMBEDMENT, 4 1/2" E.D. & 1.5" O.C.		2	ANCHORED TO 2000 psi CONCRETE
18	3/8"-18 S.H.C.S.		2	STEEL
19	DADE COUNTY N.O.A LABEL (GENERAL NOTE #9)		1	
21	3/4" MIN. THROW LATCHBOLT		1	S.S. 304 OR 316 POWDERED METAL (FY=47KSI)

**LIMITATIONS:**

1. THIS PANIC DEVICE IS APPROVED TO BE EQUAL ALTERNATIVE HARDWARE TO BE USED WITH DOUBLE (W/YALE M100 MULLION) STEEL COMMERCIAL DOOR MADE WITH 16 GA. STEEL FRAME AND 18 GA. (.053" MIN.) STEEL DOOR (MIN. Fy = 38 ksi), HOLDING CURRENT NOA. THE LOWEST DESIGN PRESSURE RATING OF THE DOORS OR THE COMPONENT SHALL GOVERN.

2. THE DOORS SHALL MEET FOLLOWING SPECIFICATIONS:

- 2.1 DOOR SLAB MUST NOT BE WIDER THAN 48" AND HIGHER THAN 83.5". THE DOOR SHALL BE 1 3/4" MIN. OVERALL THICKNESS, FILLED WITH FBC APPROVED FOAM CORE.
- 2.2 DOOR SLAB TO BE REINFORCED WITH MIN. TWO (2) 12 GA. STEEL HORIZONTAL "STIFFENERS".
- 2.3 7 GA. STEEL HINGE PLATE REINFORCEMENT AT HINGE STILE AND AT THE FRAME.
- 2.4 FULL-WIDTH 12 GA. STEEL C-CANNEL TOP & BOTTOM END OF THE DOORS.
- 2.5 MIN. 12 GA. STEEL REINFORCEMENT AT STRIKE PLATE.
- 2.6 MIN. 12 GA. STEEL "U" CHANNEL AT LOCK STILE.

3.0 ELECTRICAL INSTALLATION & FIRE RATINGS ARE NOT PART OF THIS APPROVAL AND SUCH INSTALLATION MUST BE REVIEWED BY APPLICABLE BUILDING AUTHORITY.

UNDERWRITER'S LABORATORIES - UL10C, UBC 7-2 (1997)  
ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE FOR INFORMATION ONLY.  
(NOT PART OF THE APPROVAL)

**ELECTRIFIED ABBREVIATIONS MEANING:**

EA = ELECTRONIC EXIT ALARM MODEL  
ED = ELECTRONIC DOGGING MODEL  
EE = DELAY EGRESS  
EI = ELECTRONIC INTEGRATION  
EM = DELAY EGRESS WITH MAGNETIC LOCKING  
ER = ELECTRONIC LOCK/UNLOCK  
ES = ELECTRONIC LATCH RETRACTION  
EX = ELECTRONIC SIGNAL SWITCH  
W = WEATHERIZED  
CD = CYLINDER DOGGING  
HD = HEX DOGGING  
LD = LESS DOGGING

**TYPE TRIM ABBREVIATIONS MEANING:**

DA = DAYTONA  
LS = LAGUNA SEGA  
TA = TALLADEGA  
WS = WILLOW SPRINGS  
CH = CHARLOTTE  
PO = POCOMO  
PR = PORTLAND  
AT = ATLANTA  
WG = WATKINS GLEN  
BR = BRISTOL  
MC = MONTE CARLO  
LM = LA MANA  
\*(N) SUFFIX SIGNIFIES NARROW TRIM DEVICE  
\*\* PREFIX SIGNIFIES FIRE RATE RIM PANIC DEVICES

**FASTENERS ABBREVIATIONS MEANING:**

P.H.P.M.S. = PAN HEAD PHILLIPS MACHINE SCREW  
F.H.P.U.C.M.S. = FLAT HEAD PHILLIPS UNDERCUT MACHINE SCREW  
F.H.P.M.S. = FLAT HEAD PHILLIPS MACHINE SCREW  
S.H.C.S. = SOCKET HEAD CAP SCREW

P. ENGINEER'S SEAL

*[Signature]*  
MAR 15 2005

**MIAMI-DADE COUNTY**

Approved as complying with the Florida Building Code  
Date: April 07, 2005  
NOA# 04-0810-04  
Miami Dade Product Control Division  
By: Bluag l./hands

**DETEX CORPORATION**  
302 DETEX DRIVE  
NEW BRAUNFELS, TX 78130

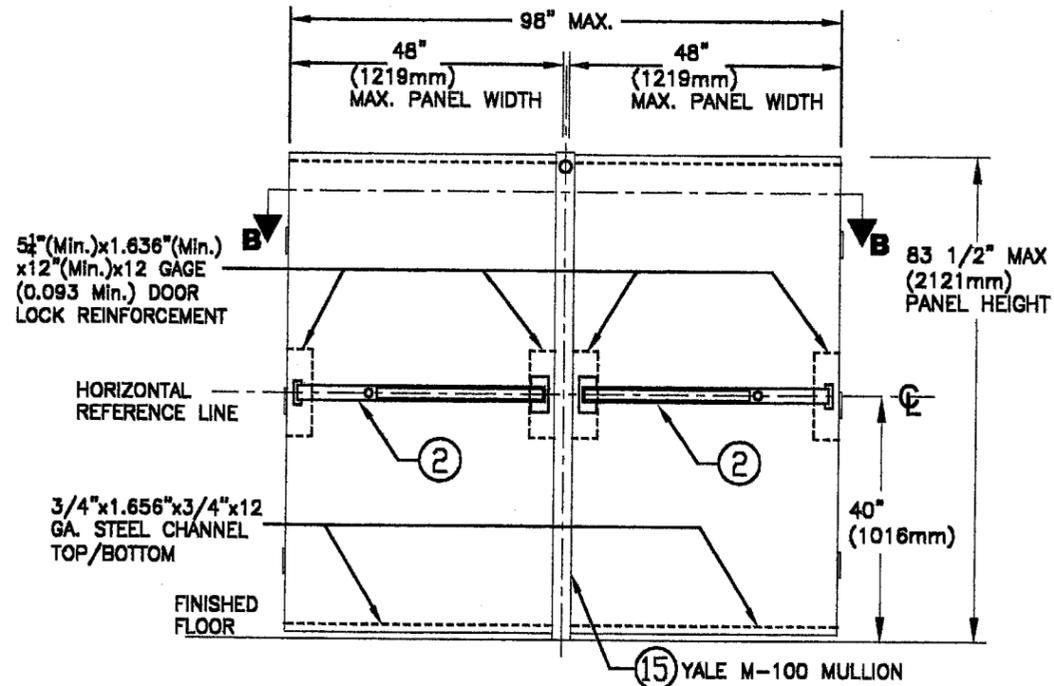
DATE: 6/9/04 DRAWN BY: DRS

SHEET TITLE:  
ADVANTEX SERIES RIM PANIC EXIT HARDWARE

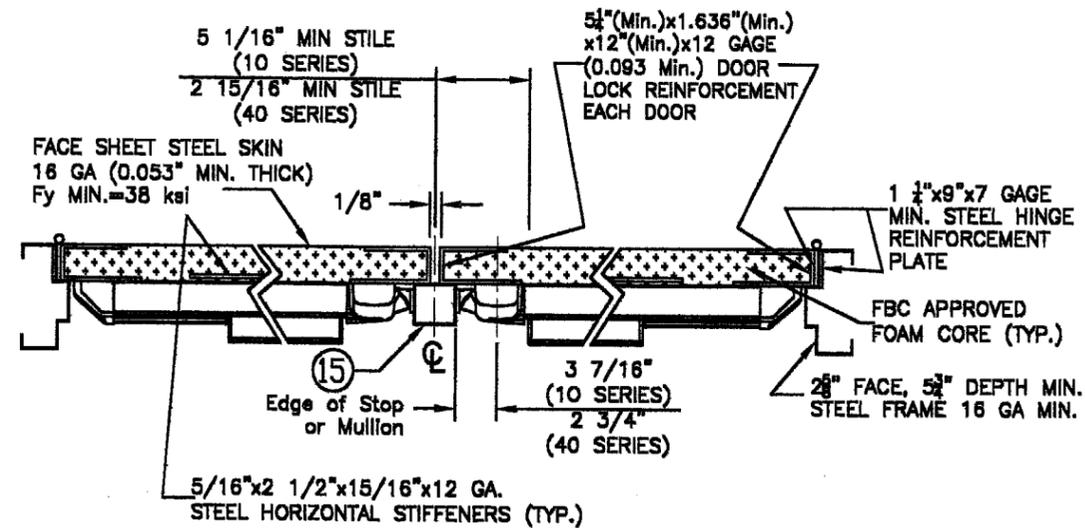
DRAWING NUMBER: DADE05 SHEET 3 of 8

**TILECO INC.**  
TILIT TESTING & ENGINEERING COMPANY  
8585 N.W. 38th St., Ste. 217 - VIRGINIA GARDENS, FL 33168  
Phone: (305)871-1530 Fax: (305)871-1531  
EB-0006719  
WALTER A. TILIT Jr., P. E.  
FLORIDA Lic. # 44167

**ADVANTEK H10 & FH10\* SERIES (WIDE) AND ADVANTEK H40 & FH40\* SERIES (NARROW) RIM  
DEVICE INSTALLATION FOR HURRICANE CODE. DOUBLE DOOR APPLICATION W/ YALE MULLION**



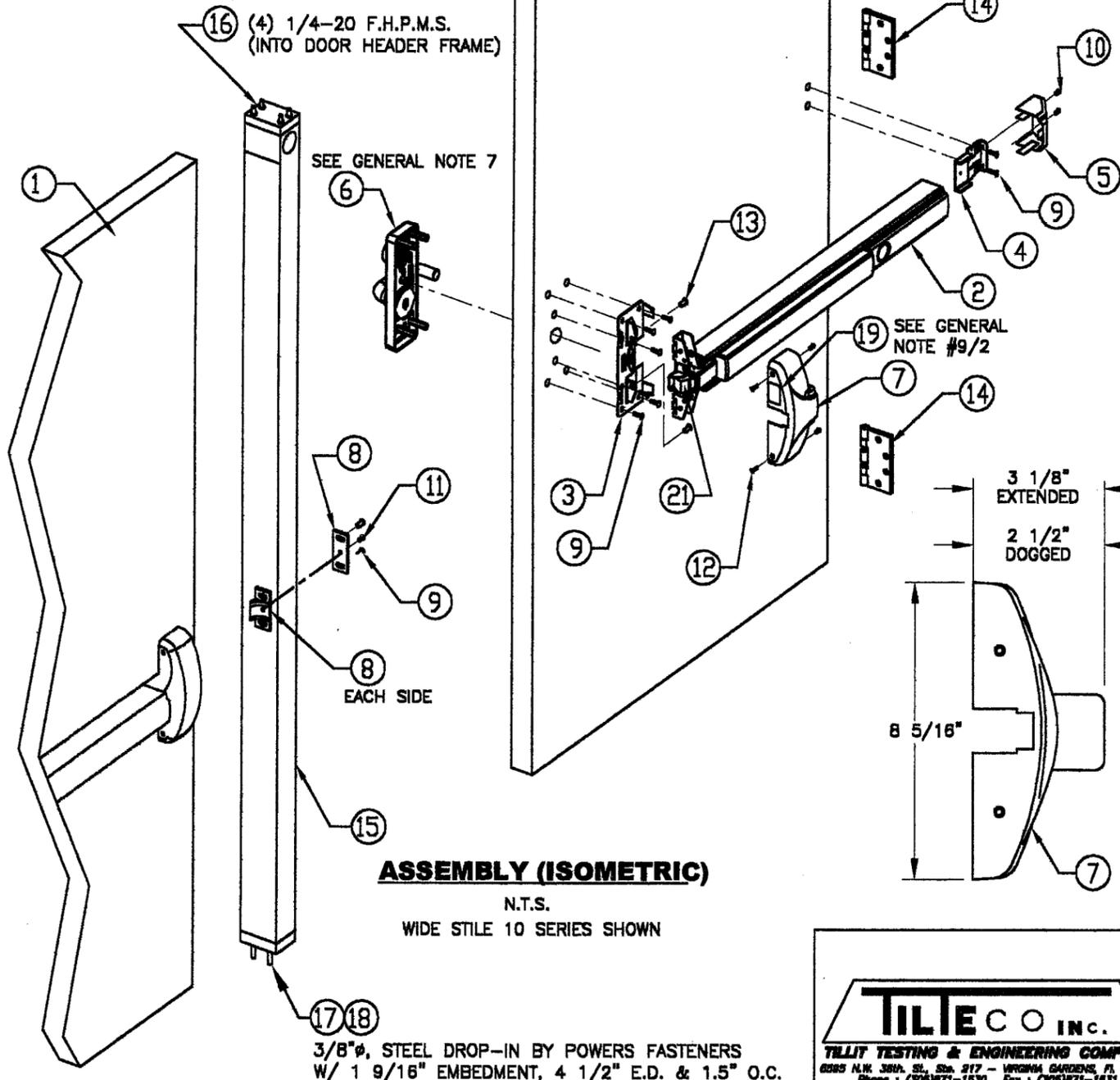
**INTERIOR ELEVATION**  
N.T.S.



**SECTION B-B**  
N.T.S.

DESIGN PRESSURE RATING DUBLE DOORS  
W/ YALE SERIES M-100 MULLION:

POSITIVE	+70 PSF,
NEGATIVE	-70 PSF.



**ASSEMBLY (ISOMETRIC)**

N.T.S.  
WIDE STILE 10 SERIES SHOWN

UNDERWRITER'S LABORATORIES - UL10C,  
UBC 7-2 (1997)  
ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE  
FOR INFORMATION ONLY.  
(NOT PART OF THE APPROVAL)

**ELECTRIFIED ABBREVIATIONS MEANING:**

- EA = ELECTRONIC EXIT ALARM MODEL
- ED = ELECTRONIC DOGGING MODEL
- EE = DELAY EGRESS
- EI = ELECTRONIC INTEGRATION
- EM = DELAY EGRESS WITH MAGNETIC LOCKING
- ER = ELECTRONIC LOCK/UNLOCK
- ES = ELECTRONIC LATCH RETRACTION
- EX = ELECTRONIC SIGNAL SWITCH
- W = WEATHERIZED
- CD = CYLINDER DOGGING
- HD = HEX DOGGING
- LD = LESS DOGGING

**TYPE TRIM ABBREVIATIONS MEANING:**

- DA = DAYTONA
- LS = LAGUNA SEGA
- TA = TALLADEGA
- WS = WILLOW SPRINGS
- CH = CHARLOTTE
- PO = POCOMO
- PR = PORTLAND
- AT = ATLANTA
- WG = WATKINS GLEN
- BR = BRISTOL
- MC = MONTE CARLO
- LM = LA MANS
- \* (N) SUFFIX SIGNIFIES NARROW TRIM DEVICES
- T\* PREFIX SIGNIFIES FIRE RATE RIM PANIC DEVICES

**FASTENERS ABBREVIATIONS MEANING:**

- P.H.P.M.S. = PAN HEAD PHILLIPS MACHINE SCREW
- F.H.P.U.C.M.S. = FLAT HEAD PHILLIPS MACHINE SCREW
- F.H.P.M.S. = FLAT HEAD PHILLIPS MACHINE SCREW
- S.H.C.S. = SOCKET HEAD CAP SCREW

P. ENGINEER'S SEAL

*David [Signature]*  
MAR 15 2005

**MIAMI-DADE COUNTY**

Approved as complying with the  
Florida Building Code  
Date APRIL 07, 2005  
NOA# 04-0810-04  
Miami Dade Product Control  
Division  
By Isaac I. Chanda

**TILECO INC.**  
TILIT TESTING & ENGINEERING COMPANY  
6085 N.W. 38th St., Ste. 217 - WIRGINIA GARDENS, FL 33165  
Phone: (305)871-1530 Fax: (305)871-1531  
EB-0008719  
WALTER A. TILIT Jr., P. E.  
FLORIDA Lic. # 44187

**DETEK CORPORATION**  
302 DETEK DRIVE  
NEW BRAUNFELS, TX 78130

DATE: 6/9/04 DRAWN BY: DRS

SHEET TITLE: ADVANTEK SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: DADE05 SHEET 4 of 8

**GENERAL NOTES FOR VALUE SERIES HV40 & FHV40\* RIM DEVICE. SINGLE DOOR APPLICATION:**

1. VALUE SERIES RIM PANIC EXIT HARDWARE, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) FOR A MIAMI-DADE COUNTY COMPONENT APPROVAL HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2001 EDITION OF THE FLORIDA BUILDING CODE. VALUE SERIES RIM PANIC EXIT HARDWARE MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1619 OF THE ABOVE MENTIONED CODE.

THESE VALUE SERIES RIM PANIC EXIT HARDWARE DEVICES' ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAVE BEEN VERIFIED IN ACCORDANCE WITH SECTION 1606.1.4 OF THE ABOVE MENTIONED CODE AS PER TAS-201, TAS-202, TAS-203, AS PER HTL LAB REPORT #0345-0203-04.

2. DESIGN PRESSURE RATING SINGLE DOORS:

POSITIVE	+70 PSF.
NEGATIVE	-70 PSF.

3. VALUE SERIES RIM PANIC EXIT HARDWARE SHALL COMPLY W/ SECTIONS 1012.1.2, 1012.1.6, 1012.1.8, 1019.7, 1021.3 & 11-4.13.11 OF THE FLORIDA BUILDING CODE 2001 EDITION.

4. ALL REINFORCEMENTS TO BE SPOT WELDED OR BETTER BY DOOR MANUFACTURER.

5. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS.

6. VALUE SERIES RIM PANIC EXIT CAN BE SUPPLIED WITH THE FOLLOWING ELECTRIFIED OPTIONS: (NOT PART OF THIS APPROVAL)  
EB, ED, EE, EH, EI, EM, ER, ES, EX  
PERFORMANCE OF ELECTRIFIED OPTION NOT PART OF THIS APPROVAL, BUT SHALL BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY.

7. VALUE SERIES RIM PANIC EXIT DEVICE CAN BE SUPPLIED WITH THE FOLLOWING TRIM DESIGNATIONS:

O2CHN, O2DAN, O2LSN, O2AN, O3CHN, O3PR(N), O3WS(N), O8BRN, O8DAN, 8LSN, O8MCN, O8TAN, O9BRN, O9DAN, O9LSN, O9MCN, O9TAN, 14BRN, 14DAN, 14LSN, 14TAN

8. (A) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(C) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(D) THIS P.A.D. SHALL BEAR THE ORIGINAL DATE AND SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

9. PANIC DEVICE'S MANUFACTURER LABEL SHALL BE PLACED ON A RAPIDLY VISIBLE LOCATION AND LABEL SHALL BE PLACED FOR EVERY SYSTEM. LABEL SHALL READ AS FOLLOWS:  
DETEX CORPORATION or Detex company logo  
NEW BRAUNFELS, TX 78130  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

**BILL OF MATERIAL FOR VALUE SERIES HV40 & FHV40\* RIM DEVICE. SINGLE DOOR APPLICATION**

ITEM	DESCRIPTION	COMMENTS	QTY PER DOOR	MATERIAL
1	MIAMI DADE COUNTY APPROVED SINGLE DOOR & FRAME		1	
2	DETEX HV40 & FHV40 VALUE SERIES		1	302 & 304 S.S., 16 & 13 GAGE CRS METAL AND ALUM. 6063-T5 ALLOY AND TEMPER.
3	MOUNTING PLATE (NARROW)		1	13 GAGE CRS METAL
4	ENDCAP BRACKET		1	13 GAGE CRS METAL
5	ENDCAP		1	ABS PLASTIC
6	OUTSIDE TRIM (SEE GENERAL NOTE 7)	OPTIONAL	A/R	DAN=BRASS FORMING LSN=BRASS FORMING TAN=BRASS FORMING WS=BRASS FORMING WSN=BRASS FORMING CHN=13 GAGE 304 S.S. PR=0.16" THICK 5052-H32 ALUM. PRN=0.16" THICK 5052-H32 ALUM. AT=16 GAGE CRS METAL ATN=16 GAGE CRS METAL MCN=ZINC DIE CASTING LMN=ZINC DIE CASTING
7	CHASSIS COVER		1	ABS PLASTIC
8	SURFACE STRIKE		1	S.S. 302 INVESTMENT CAST (FY=30KSI)
9	1/4-20 P.H.P.M.S.		9	
11	10-24 F.H.P.U.C.M.S.		2	
12	6-32 F.H.P.U.C.M.S.		6	
13	1/4-20 P.H.P.M.S.		2	
14	HINGE		3	
19	DADE COUNTY N.O.A LABEL (GENERAL NOTE #9)		1	
20	1.75"x7" FRAME STRIKE REINFORCEMENT			12 GA. MIN. STEEL
21	3/4" MIN. THROW LATCHBOLT		1	S.S. 304 OR 316 POWDERED METAL (FY=47KSI)

**LIMITATIONS:**

1. THIS PANIC DEVICE IS APPROVED TO BE EQUAL ALTERNATIVE HARDWARE TO BE USED WITH SINGLE STEEL COMMERCIAL DOOR MADE WITH 16 GA. STEEL FRAME AND 16 GA. (.053" MIN.) STEEL DOOR (MIN. Fy = 38 ksi), HOLDING CURRENT NOA. THE LOWEST DESIGN PRESSURE RATING OF THE DOORS OR THE COMPONENT SHALL GOVERN.

2. THE DOORS SHALL MEET FOLLOWING SPECIFICATIONS:

- 2.1 DOOR SLAB MUST NOT BE WIDER THAN 48" AND HIGHER THAN 83.5". THE DOOR SHALL BE 1 3/4" MIN. OVERALL THICKNESS, FILLED WITH FBC APPROVED FOAM CORE.
- 2.2 DOOR SLAB TO BE REINFORCED WITH MIN. TWO (2) 12 GA. STEEL HORIZONTAL "STIFFENERS".
- 2.3 7 GA. STEEL HINGE PLATE REINFORCEMENT AT HINGE STILE AND AT THE FRAME.
- 2.4 FULL-WIDTH 12 GA. STEEL C-CANNEL TOP & BOTTOM END OF THE DOORS.
- 2.5 MIN. 12 GA. STEEL REINFORCEMENT AT STRIKE PLATE.
- 2.6 MIN. 12 GA. STEEL "U" CHANNEL AT LOCK STILE.

3.0 ELECTRICAL INSTALLATION & FIRE RATINGS ARE NOT PART OF THIS APPROVAL AND SUCH INSTALLATION MUST BE REVIEWED BY APPLICABLE BUILDING AUTHORITY.

UNDERWRITER'S LABORATORIES - UL10C, UBC 7-2 (1997)  
ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE FOR INFORMATION ONLY.  
(NOT PART OF THE APPROVAL)  
ELECTRIFIED ABBREVIATIONS MEANING:

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EX = ELECTRONIC SIGNAL SWITCH  
W = WEATHERIZED  
CD = CYLINDER DOGGING  
HD = HEX DOGGING  
LD = LESS DOGGING

**TYPE TRIM ABBREVIATIONS MEANING:**

DAN = DAYTONA NARROW  
LSN = LAGUNA SEGA NARROW  
TAN = TALLADEGA NARROW  
WS = WILLOW SPRINGS  
WSN = WILLOW SPRINGS NARROW  
CHN = CHARLOTTE NARROW  
PR = PORTLAND  
PRN = PORTLAND NARROW  
AT = ATLANTA  
ATN = ATLANTA NARROW  
BRN = BRISTOL NARROW  
MCN = MONTE CARLO NARROW  
LMN = LA MANE NARROW  
\* = PREFIX SIGNIFIES FIRE RATE RIM PANIC DEVICES

**FASTENERS ABBREVIATIONS MEANING:**

P.H.P.M.S. = PAN HEAD PHILLIPS MACHINE SCREW  
F.H.P.U.C.M.S. = FLAT HEAD PHILLIPS UNDERCUT MACHINE SCREW  
F.H.P.M.S. = FLAT HEAD PHILLIPS MACHINE SCREW  
S.H.C.S. = SOCKET HEAD CAP SCREW

P. ENGINEER'S SEAL

*David J. Chanda*  
MAR 15 2005

**MIAMI-DADE COUNTY**

Approved as complying with the Florida Building Code  
Date: APR 10 7, 2005  
NOA# 04-0810-04  
Miami Dade Product Control Division  
By: *Isaac V. Chanda*



**TILTE CO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6585 N.W. 36th St., Ste. 217 - VIRGINIA GARDENS, FL 33188  
Phone: (305)871-1530 Fax: (305)871-1531  
EB-0008719  
WALTER A. TILLIT Jr., P. E.  
FLORIDA Lic. # 44167

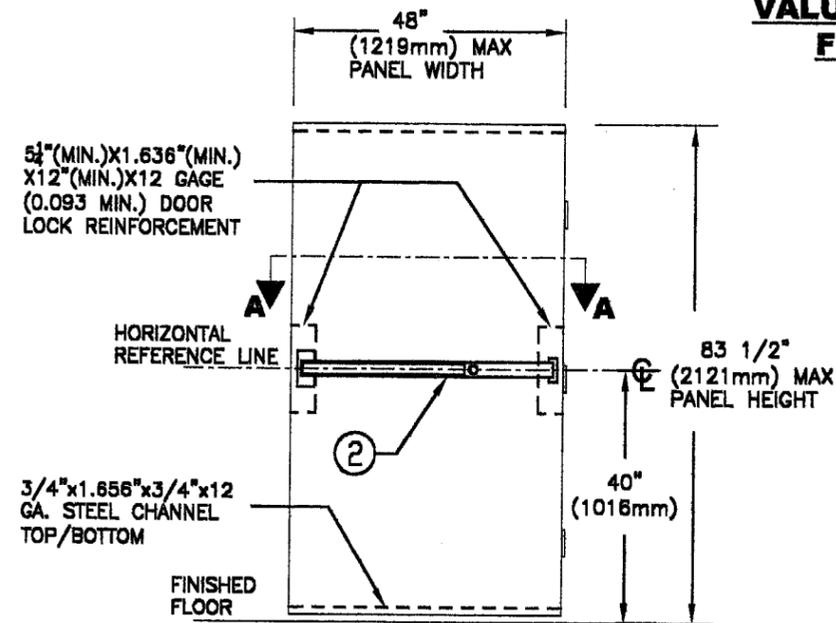
**DETEX CORPORATION**  
302 DETEX DRIVE  
NEW BRAUNFELS, TX 78130

DATE: 6/9/04 DRAWN BY: DRS

SHEET TITLE: VALUE SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: DADE05 SHEET: 5 of 8

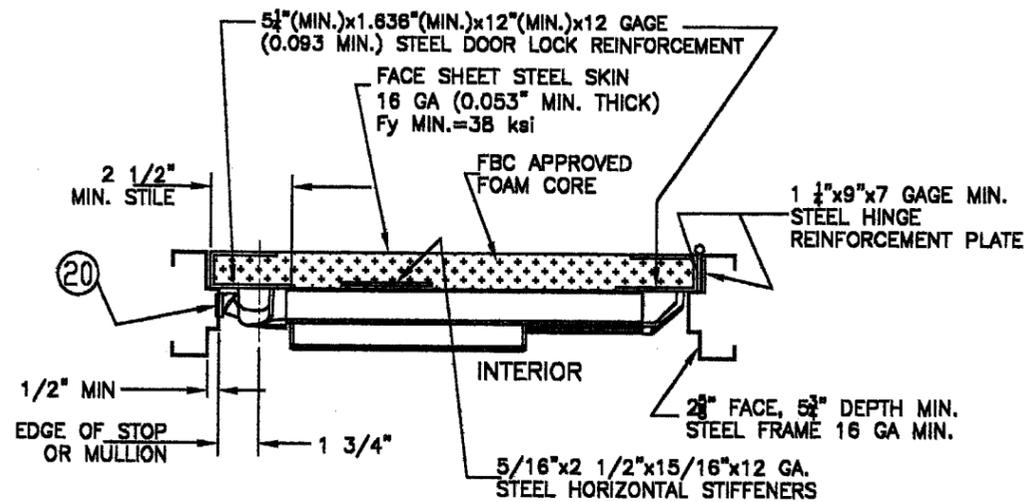
**VALUE SERIES HV40 & FHV40\* RIM DEVICE INSTALLATION  
FOR HURRICANE CODE. SINGLE DOOR APPLICATION**



**INTERIOR ELEVATION**  
N.T.S.

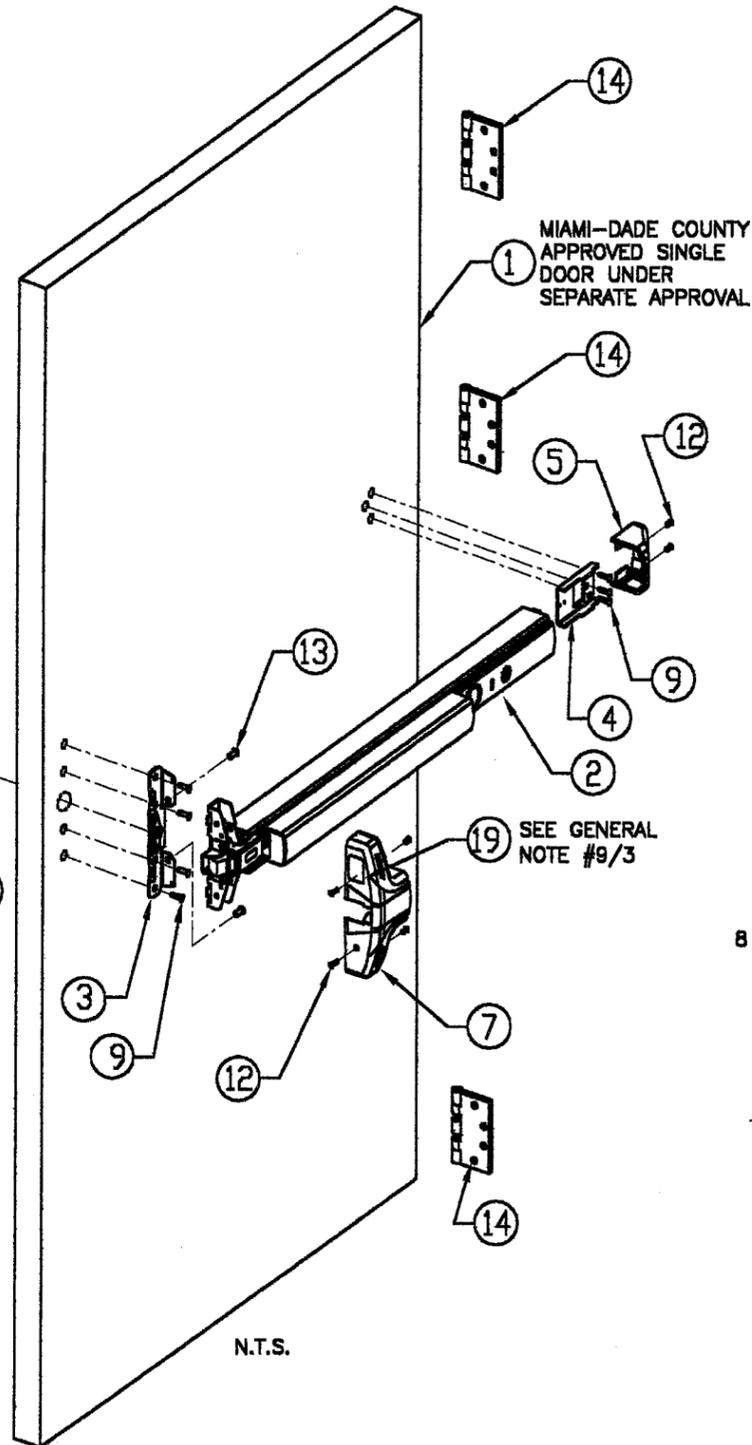
DESIGN PRESSURE RATING SINGLE DOORS:

POSITIVE	+70 PSF.
NEGATIVE	-70 PSF.

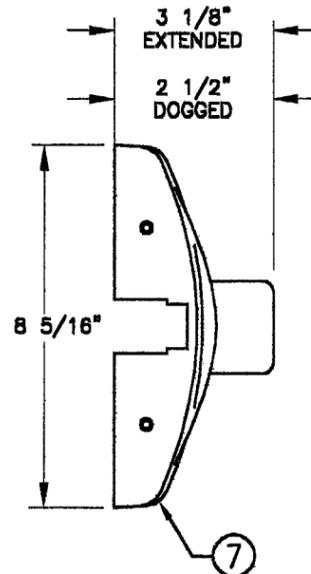


**SECTION A-A**  
N.T.S.

SEE GENERAL NOTE 7



N.T.S.



UNDERWRITER'S LABORATORIES - UL10C, UBC 7-2 (1997)  
ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE FOR INFORMATION ONLY.  
(NOT PART OF THE APPROVAL)  
ELECTRIFIED ABBREVIATIONS MEANING:

EB = ELECTRONIC EXIT ALARM MODEL  
ED = ELECTRONIC DOGGING MODEL  
EE = DELAY EGRESS  
EI = ELECTRONIC INTEGRATION  
EM = DELAY EGRESS WITH MAGNETIC LOCKING  
EL = ELECTRONIC LOCK/UNLOCK  
ES = ELECTRONIC LATCH RETRACTION  
EX = ELECTRONIC SIGNAL SWITCH  
W = WEATHERIZED  
CD = CYLINDER DOGGING  
HD = HEX DOGGING  
LD = LESS DOGGING

TYPE TRIM ABBREVIATIONS MEANING:

DAN = DAYTONA NARROW  
LSN = LAGUNA SEGA NARROW  
TAN = TALLADEGA NARROW  
WS = WILLOW SPRINGS  
WSN = WILLOW SPRINGS NARROW  
CHN = CHARLOTTE  
PR = PORTLAND  
PRN = PORTLAND NARROW  
AT = ATLANTA  
ATN = ATLANTA NARROW  
BRN = BRISTOL NARROW  
MCN = MONTE CARLO NARROW  
LMN = LA MANS NARROW  
\* = PREFIX SHIFTER FIRE RATE, RM, PANIC DEVICES

FASTENERS ABBREVIATIONS MEANING:

P.H.P.M.S. = PAN HEAD PHILLIPS MACHINE SCREW  
F.H.P.U.C.M.S. = FLAT HEAD PHILLIPS UNDERCUT MACHINE SCREW  
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P. ENGINEER'S SEAL

*[Signature]*  
MAR 15 2005

**MIAMI-DADE COUNTY**

Approved as complying with the Florida Building Code  
Date *APRIL 07, 2005*  
NOA# *04-0810-01*  
Miami Dade Product Control Division  
By *J. Shag I. Chaudh*

**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6868 N.W. 36th St., Ste. 217 - VIRGINIA GARDENS, FL 33166  
Phone: (305)871-1530, Fax: (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P. E.  
FLORIDA Lic. # 44167

**DETECH CORPORATION**  
302 DETEX DRIVE  
NEW BRAUNFELS, TX 78130

DATE: 6/9/04 DRAWN BY: DRS

SHEET TITLE: VALUE SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: DADE05 SHEET 6 of 8

**GENERAL NOTES FOR VALUE SERIES HV40 & FHV40\* RIM DEVICE, DOUBLE DOOR APPLICATION W/ YALE MULLION:**

1. VALUE SERIES RIM PANIC EXIT HARDWARE, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) FOR A MIAMI-DADE COUNTY COMPONENT APPROVAL HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2001 EDITION OF THE FLORIDA BUILDING CODE. VALUE SERIES RIM PANIC EXIT HARDWARE MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1619 OF THE ABOVE MENTIONED CODE. THESE VALUE SERIES RIM PANIC EXIT HARDWARE DEVICES' ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAVE BEEN VERIFIED IN ACCORDANCE WITH SECTION 1606.1.4 OF THE ABOVE MENTIONED CODE AS PER TAS-201, TAS-202, TAS-203, AS PER HTL LAB REPORT #0345-0203-04.

2. DESIGN PRESSURE RATING DOUBLE DOORS:

POSITIVE	+70 PSF,
NEGATIVE	-70 PSF.

3. VALUE SERIES RIM PANIC EXIT HARDWARE SHALL COMPLY W/ SECTIONS 1012.1.2, 1012.1.6, 1012.1.8, 1019.7, 1021.3 & 11-4.13.11 OF THE FLORIDA BUILDING CODE 2001 EDITION.

4. ALL REINFORCEMENTS TO BE SPOT WELDED OR BETTER BY DOOR MANUFACTURER.

5. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS.

6. VALUE SERIES RIM PANIC EXIT CAN BE SUPPLIED WITH THE FOLLOWING ELECTRIFIED OPTIONS: (NOT PART OF THIS APPROVAL) EB, ED, EE, EH, EI, EM, ER, ES, EX PERFORMANCE OF ELECTRIFIED OPTION NOT PART OF THIS APPROVAL, BUT SHALL BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY.

7. VALUE SERIES RIM PANIC EXIT DEVICE CAN BE SUPPLIED WITH THE FOLLOWING TRIM DESIGNATIONS: O2CHN, O2DAN, O2LSN, O2AN, O3CHN, O3PR(N), O3WS(N), O8BRN, O8DAN, 8LSN, O8MCN, O8TAN, O9BRN, O9DAN, O9LSN, O9MCN, O9TAN, 14BRN, 14DAN, 14LSN, 14TAN

8. (A) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(C) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(D) THIS P.A.D. SHALL BEAR THE ORIGINAL DATE AND SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

9. PANIC DEVICE'S MANUFACTURER LABEL SHALL BE PLACED ON A RAPIDLY VISIBLE LOCATION AND LABEL SHALL BE PLACED FOR EVERY SYSTEM. LABEL SHALL READ AS FOLLOWS: DETEX CORPORATION or Detex company logo NEW BRAUNFELS, TX 78130 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

**BILL OF MATERIAL FOR VALUE SERIES HV40 & FHV40\* RIM DEVICE, DOUBLE DOOR APPLICATION W/ YALE MULLION**

ITEM	DESCRIPTION	COMMENTS	QTY PER DOOR	MATERIAL
1	MIAMI DADE COUNTY APPROVED DOUBLE DOOR & FRAME		1	
2	DETEX HV40 & FHV40 VALUE SERIES		1	302 & 304 S.S., 16 & 13 GAGE CRS METAL AND ALUM. 6063-T5 ALLOY AND TEMPER.
3	MOUNTING PLATE (NARROW)		1	13 GAGE CRS METAL
4	ENDCAP BRACKET		1	13 GAGE CRS METAL
5	ENDCAP		1	ABS PLASTIC
6	OUTSIDE TRIM (SEE GENERAL NOTE 7)	OPTIONAL	A/R	DAN=BRASS FORMING LSN=BRASS FORMING TAN=BRASS FORMING WS=BRASS FORMING WSN=BRASS FORMING CHN=13 GAGE 304 S.S. PR=0.16" THICK 5052-H32 ALUM. PRN=0.16" THICK 5052-H32 ALUM. AT=16 GAGE CRS METAL ATN=16 GAGE CRS METAL BRN=ZINC DIE CASTING MCN=ZINC DIE CASTING LMN=ZINC DIE CASTING
7	CHASSIS COVER		1	ABS PLASTIC
8	SURFACE STRIKE		1	S.S. 302 INVESTMENT CAST (FY=30KSI)
9	1/4-20 P.H.P.M.S.		9	
11	10-24 F.H.P.U.C.M.S.		2	
12	6-32 F.H.P.U.C.M.S.		6	
13	1/4-20 P.H.P.M.S.		2	
14	HINGE		3	
15	1 1/2"(MIN.)x3"(MIN.)x3/16"(MIN.) THICKx7'-0" LONG STEEL YALE MULLION SERIES M-100		1	ASTM A-500 GRADE B, W/ FY(MIN.)=46 KSI & FU(MIN.)=58 KSI
16	1/4-20 F.H.P.M.S. (INTO DOOR HEADER FRAME)		4	STEEL
17	3/8"Ø, STEEL DROP-IN BY POWERS FASTENERS W/ 1 9/16" EMBEDMENT, 4 1/2" E.D. & 1.5" O.C.		2	ANCHORED TO 2000 psi CONCRETE
18	3/8"-16 S.H.C.S.		2	STEEL
19	DADE COUNTY N.O.A LABEL (GENERAL NOTE #9)		1	
21	3/4" MIN. THROW LATCHBOLT		1	S.S. 304 OR 316 POWDERED METAL (FY=47KSI)

**LIMITATIONS:**

1. THIS PANIC DEVICE IS APPROVED TO BE EQUAL ALTERNATIVE HARDWARE TO BE USED WITH DOUBLE (W/YALE M100 MULLION) STEEL COMMERCIAL DOOR MADE WITH 16 GA. STEEL FRAME AND 16 GA. (.053" MIN.) STEEL DOOR (MIN. Fy = 38 ksi), HOLDING CURRENT NOA. THE LOWEST DESIGN PRESSURE RATING OF THE DOORS OR THE COMPONENT SHALL GOVERN.

2. THE DOORS SHALL MEET FOLLOWING SPECIFICATIONS:

- 2.1 DOOR SLAB MUST NOT BE WIDER THAN 48" AND HIGHER THAN 83.5". THE DOOR SHALL BE 1 3/4" MIN. OVERALL THICKNESS, FILLED WITH FBC APPROVED FOAM CORE.
- 2.2 DOOR SLAB TO BE REINFORCED WITH MIN. TWO (2) 12 GA. STEEL HORIZONTAL "STIFFENERS".
- 2.3 7 GA. STEEL HINGE PLATE REINFORCEMENT AT HINGE STILE AND AT THE FRAME.
- 2.4 FULL-WIDTH 12 GA. STEEL C-CANNEL TOP & BOTTOM END OF THE DOORS.
- 2.5 MIN. 12 GA. STEEL REINFORCEMENT AT STRIKE PLATE.
- 2.6 MIN. 12 GA. STEEL "U" CHANNEL AT LOCK STILE.

3.0 ELECTRICAL INSTALLATION & FIRE RATINGS ARE NOT PART OF THIS APPROVAL AND SUCH INSTALLATION MUST BE REVIEWED BY APPLICABLE BUILDING AUTHORITY.

UNDERWRITER'S LABORATORIES - UL10C, UBC 7-2 (1997) ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE FOR INFORMATION ONLY. (NOT PART OF THE APPROVAL) ELECTRIFIED ABBREVIATIONS MEANING:

EB = ELECTRONIC EXIT ALARM MODEL  
ED = ELECTRONIC DOGGING MODEL  
EE = DELAY EGRESS  
EI = ELECTRONIC INTEGRATION  
EM = DELAY EGRESS WITH MAGNETIC LOCKING  
ER = ELECTRONIC LOCK/UNLOCK  
ES = ELECTRONIC LATCH RETRACTION  
EX = ELECTRONIC SIGNAL SWITCH  
W = WEATHERIZED  
CD = CYLINDER DOGGING  
HD = HEX DOGGING  
LD = LESS DOGGING

**TYPE TRIM ABBREVIATIONS MEANING:**

DAN = DAYTONA NARROW  
LSN = LAGUNA SEGA NARROW  
TAN = TALADEGA NARROW  
WS = WILLOW SPRINGS  
WSN = WILLOW SPRINGS NARROW  
CHN = CHARLOTTE NARROW  
PR = PORTLAND  
PRN = PORTLAND NARROW  
AT = ATLANTA  
ATN = ATLANTA NARROW  
BRN = BRISTOL NARROW  
MCN = MONTE CARLO NARROW  
LMN = LA MANIS NARROW  
\* = PREFIX SIGNIFIER FIRE RATE RIM PANIC DEVICES

**FASTENERS ABBREVIATIONS MEANING:**

F.H.P.M.S. = PAN HEAD PHILLIPS MACHINE SCREW  
F.H.P.U.C.M.S. = FLAT HEAD PHILLIPS UNDERCUT MACHINE SCREW  
F.H.P.M.S. = FLAT HEAD PHILLIPS MACHINE SCREW  
S.H.C.S. = SOCKET HEAD CAP SCREW

P. ENGINEER'S SEAL

*[Signature]*  
MAR 10 2005

**MIAMI-DADE COUNTY**

Approved as complying with the Florida Building Code  
Date: APRIL 07, 2005  
NOA# 04-0810-04  
Miami Dade Product Control Division  
By: Israg I. Chandra

**TILTECO INC.**  
TILIT TESTING & ENGINEERING COMPANY  
6800 N.W. 36th St., Ste. 217 - VIRGINIA GARDENS, FL 33148  
Phone: (305)871-1830, Fax: (305)871-1831  
EB-0008719  
WALTER A. TILLIT Jr., P. E.  
FLORIDA Lic. # 44167

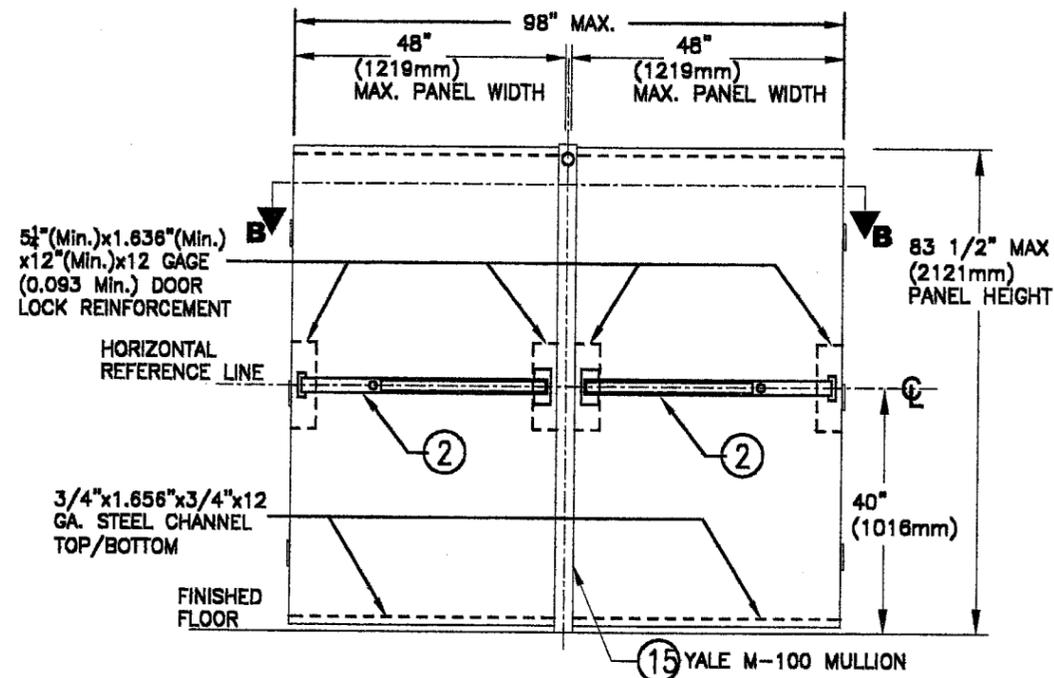
**DETEX CORPORATION**  
302 DETEX DRIVE  
NEW BRAUNFELS, TX 78130

DATE: 6/9/04 DRAWN BY: DRS

SHEET TITLE: VALUE SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: DADE05 SHEET 7 of 8

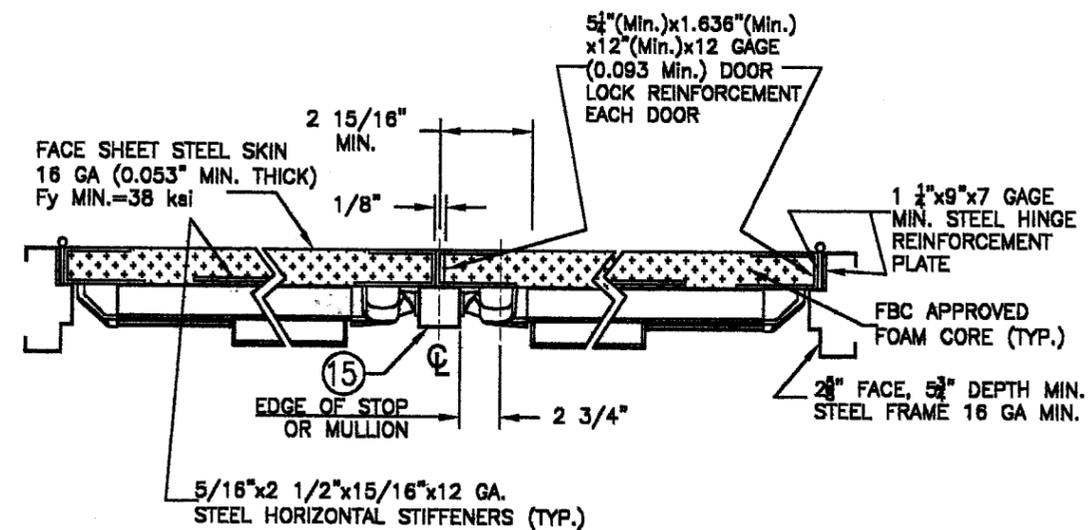
**VALUE SERIES HV40 & FHV40\* RIM DEVICE INSTALLATION FOR  
HURRICANE CODE. DOUBLE DOOR APPLICATION W/ YALE MULLION**



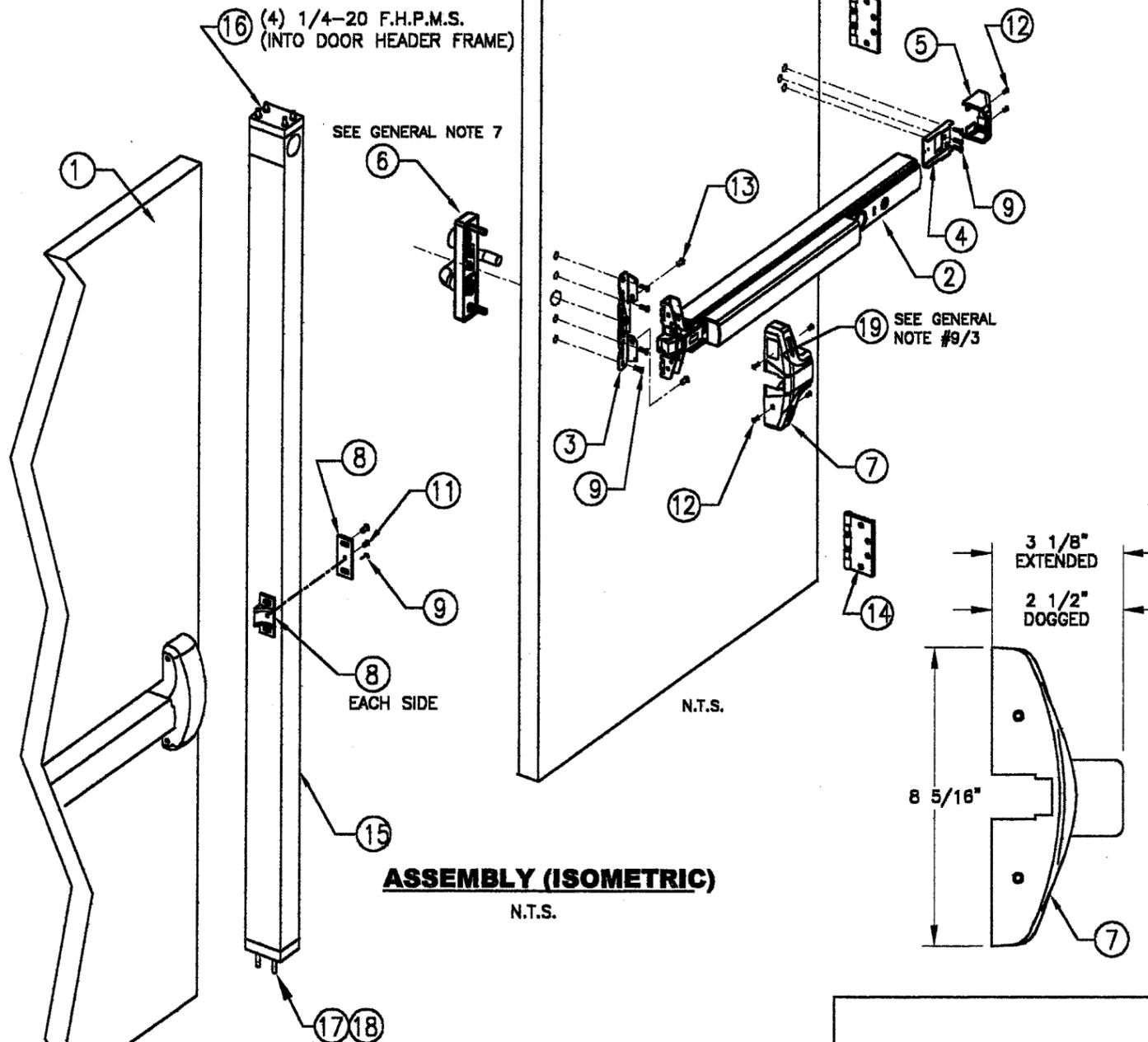
**INTERIOR ELEVATION**  
N.T.S.

DESIGN PRESSURE RATING DOUBLE DOORS:

POSITIVE	+70 PSF.
NEGATIVE	-70 PSF.



**SECTION B-B**  
N.T.S.



**ASSEMBLY (ISOMETRIC)**  
N.T.S.

UNDERWRITER'S LABORATORIES - UL10C, UBC 7-2 (1987)  
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(NOT PART OF THE APPROVAL)  
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ATN = ATLANTA NARROW  
BRN = BRISTOL NARROW  
MCN = MONTE CARLO NARROW  
LMN = LA MAN'S NARROW  
\* = CHECK SCHEDULES FIRE RATE RIM PANIC DEVICES

FASTENERS ABBREVIATIONS MEANING:

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P. ENGINEER'S SEAL

*[Signature]*  
MAR 15 2005

**MIAMI-DADE COUNTY**

Approved as complying with the Florida Building Code  
Date APRIL 07, 2005  
NO# 04-0510-04  
Miami Dade Product Control  
Division  
By T. Shag J. Grande

**TILECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
8825 N.W. 38th St., Ste. 217 - VIRGINIA GARDENS, FL 33189  
Phone: (305)871-1830, Fax: (305)871-1831  
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