



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

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. **10-019**, titled "Advantex Series RIM Panic Exit Hardware" sheets 1 through 8 of 8, dated 02/12/10, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

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 revises & renews # **04-0810.04** 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 10-0303.02
Expiration Date: April 07, 2015
Approval Date: May 26, 2010
Page 1

5/5/10

Detex Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS (Transferred from file # 04-0810.04)**
1. Manufacturer's die drawings and sections.
 2. Drawing No. **10-019**, titled "Advantex Series RIM Panic Exit Hardware" sheets 1 through 8 of 8, dated 02/12/10, prepared by Toltec, Inc., signed & sealed by Walter A. Tillie Jr., P.E.
- B. TESTS (Transferred from file # 04-0810.04)**
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 202-94
Along 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 02/12/10, 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 to FBC 2007 and no financial interest dated 02/11/10, signed and sealed by Walter A. Tillie, P.E.
 2. Statement letter
 3. Statement letter of Lab compliance, as part of above test reports.
- G. OTHER**
1. This NOA **revises & renews # 04-0810.04**, expiring 04/07/2015
 2. Detex Rim exit & Yale M100 removable mullion catalogs & brochures.
 3. Reference NOA# 09-0505.09, 05-0809.02 & 04-0611.04 (Ceco Door Product).

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 10-0303.02
Expiration Date: April 07, 2015
Approval Date: May 26, 2010

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.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE.

ADVANTEX RIM PANIC EXIT HARDWARE MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS.

THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER HURRICANE TEST LABORATORY REPORT # 0345-0203-04 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1612 OF THE FLORIDA BUILDING CODE.

2. DESIGN PRESSURE RATING SINGLE DOORS:

| | |
|----------|----------|
| POSITIVE | +70 PSF, |
| NEGATIVE | -70 PSF. |

3. ADVANTEX RIM PANIC EXIT HARDWARE SHALL COMPLY WITH SECTIONS 1008.1.2, 1008.1.8.1, 1008.1.8.2, 1008.1.9 AND 11-4.13.11 OF THE FLORIDA BUILDING CODE 2007 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) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

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

9. PANIC DEVICE'S MANUFACTURER LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL SHALL READ AS FOLLOWS:

DETEX CORPORATION or Detex company logo
 NEW BRAUNFELS, TEXAS 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-ADE 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 - UBC 7-2 (1997)
 ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE FOR INFORMATION ONLY.
 (NOT PART OF THE APPROVAL)

ELECTRIFIED ABBREVIATIONS MEANING:

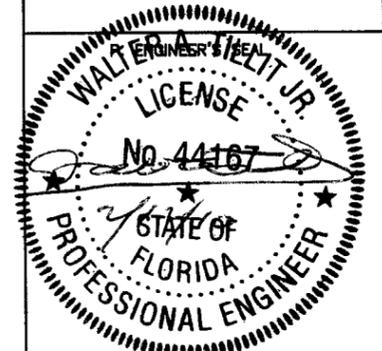
- EA = ELECTRONIC EXIT ALARM MODEL
- ED = ELECTRONIC DOGGING MODEL
- EE = DELAY EGRESS
- EI = ELECTRONIC INTEGRATION
- EM = DELAY EGRESS WITH MAGNETIC LOCKING
- ER = ELECTRONIC LOCK/UNLOCK
- ES = ELECTRONIC LATCH RETRACTION
- EX = ELECTRONIC SIGNAL SWITCH
- W = WEATHERIZED
- CD = CYLINDER DOGGING
- HD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



MIAMI-DADE COUNTY

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No 10-0303-02
 Expiration Date APR 07, 2015
 By Ishag I. Chande
 Miami Dade Product Control Division

© 2010 TILTECO INC.

TILTECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
 Phone : (305)871-1530 . Fax : (305)871-1531
 EB-0006719
 WALTER A. TILLIT Jr., P.E.
 FLORIDA Lic. 44167

DETEX CORPORATION
 302 DETEX DRIVE
 NEW BRAUNFELS, TX 78130

DATE: 02/10/10 DRAWN BY: M.C.V.

SHEET TITLE:
 ADVANTEX SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: REVISION: SHEET
 10-019 OLD DADE05 1 of 8

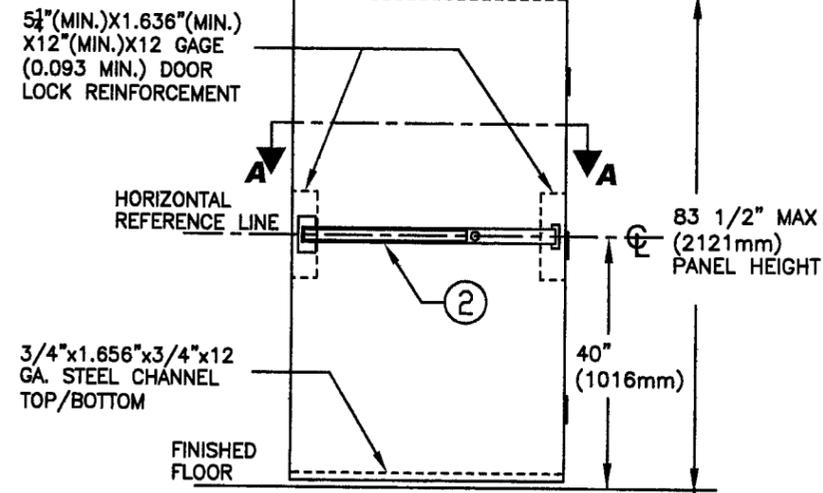
**ADVANTEK H10 & FH10* SERIES (WIDE) & ADVANTEK H40 & FH40* SERIES (NARROW) RIM DEVICE
INSTALLATION FOR HURRICANE CODE. SINGLE DOOR APPLICATION**

UNDERWRITER'S LABORATORIES - UL
ULC 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

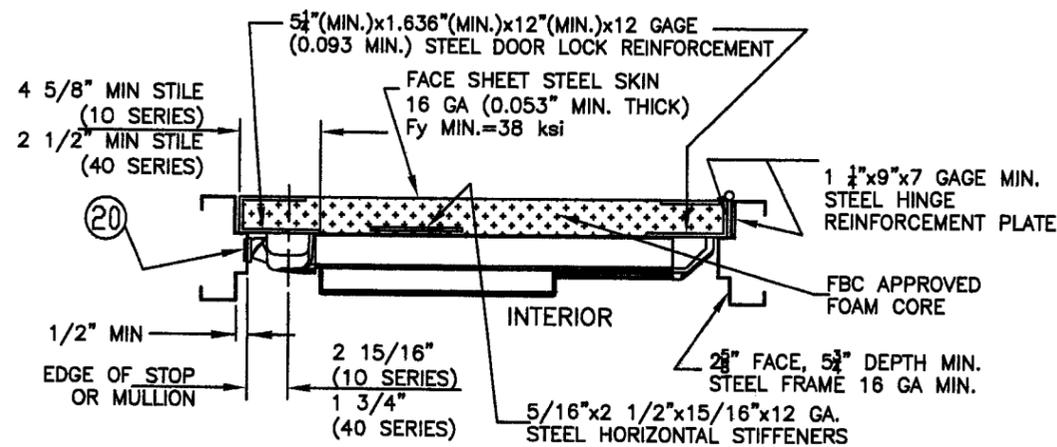
* (N) SUFFIX SIGNIFIES NARROW TRIM DEVICE
* (F) PREFIX SIGNIFIES FIRE RATE RIM PANIC DEVICES
FASTENERS ABBREVIATIONS MEANING:
P.H.P.M.S. = PAN HEAD PHILLIPS MACHINE SCREW
F.H.P.U.C.M.S. = FLAT HEAD PHILLIPS UNDERCUT MACHINE SCREW
F.H.P.M.S. = FLAT HEAD PHILLIPS MACHINE SCREW
S.H.C.S. = SOCKET HEAD CAP SCREW



INTERIOR ELEVATION
N.T.S.

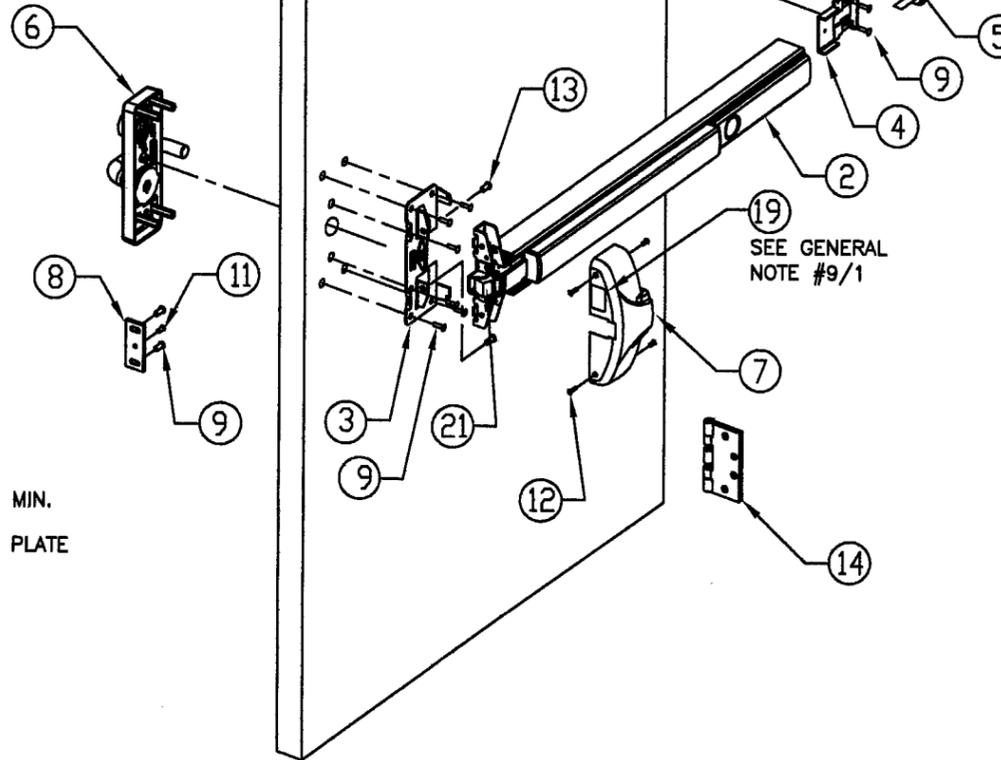
DESIGN PRESSURE RATING SINGLE DOORS:

| | |
|----------|----------|
| POSITIVE | +70 PSF, |
| NEGATIVE | -70 PSF. |

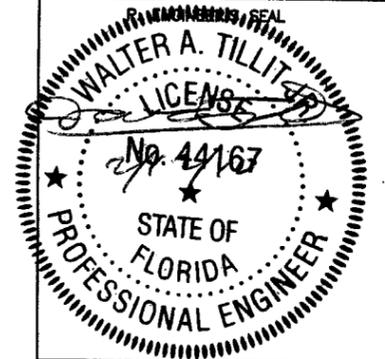
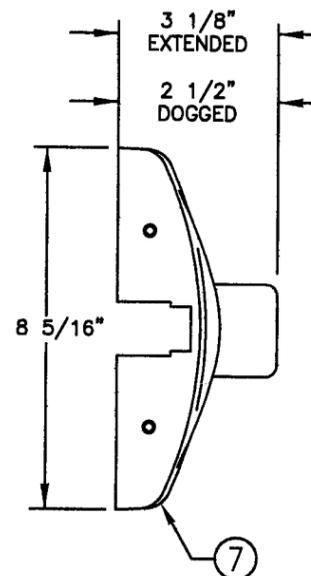


SECTION A-A
N.T.S.

SEE GENERAL NOTE 7



ASSEMBLY (ISOMETRIC)
N.T.S.
WIDE STILE 10 SERIES SHOWN



MIAMI-DADE COUNTY

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 10-0303.02
Expiration Date APR 07, 2015
By Ishag I. Ghandi
Miami Dade Product Control
Division

© 2010 TILTECO INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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Phone : (305)871-1530 . Fax : (305)871-1531
EB-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. 44167

DETEX CORPORATION
302 DETEX DRIVE
NEW BRAUNFELS, TX 78130
DATE: 02/10/10 DRAWN BY: M.C.V.
SHEET TITLE:
ADVANTEK SERIES RIM PANIC
EXIT HARDWARE
DRAWING NUMBER: 10-019 REVISION: OLD 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.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE.

ADVANTEX RIM PANIC EXIT HARDWARE MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS.

THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER HURRICANE TEST LABORATORY REPORT # 0345-0203-04 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1612 OF THE FLORIDA BUILDING CODE.

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 WITH SECTIONS 1008.1.2, 1008.1.8.1, 1008.1.8.2, 1008.1.9 AND 11-4.13.11 OF THE FLORIDA BUILDING CODE 2007 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) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

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

9. PANIC DEVICE'S MANUFACTURER LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL SHALL READ AS FOLLOWS:

DETEX CORPORATION or Detex company logo
 NEW BRAUNFELS, TEXAS 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)=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 | |
| 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, SNAKE ANCHOR BY POWERS FASTENERS W/ 1 1/2" 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.

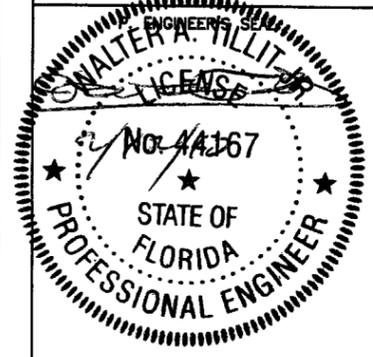
3.0 ELECTRICAL INSTALLATION & FIRE RATINGS ARE NOT PART OF THIS APPROVAL AND SUCH INSTALLATION MUST BE REVIEWED BY APPLICABLE BUILDING AUTHORITY.

UNDERWRITER'S LABORATORIES - 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
 F 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



MIAMI-DADE COUNTY

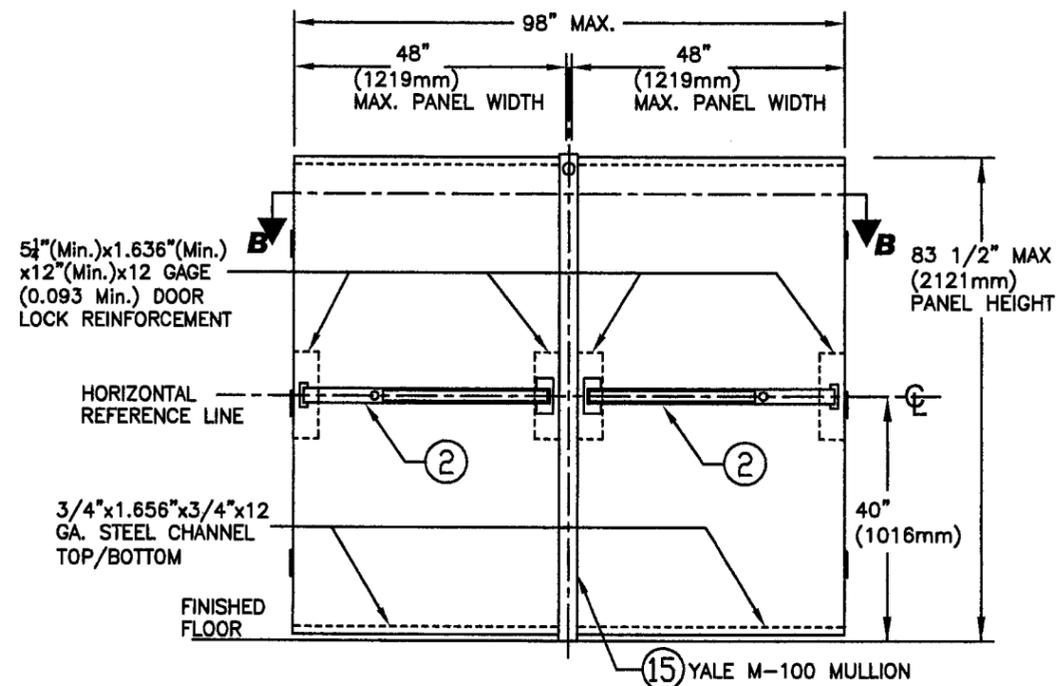
PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 10-0303-02
 Expiration Date: 02/10/15
 By: Ighag I. Chande
 Miami Dade Product Control Division

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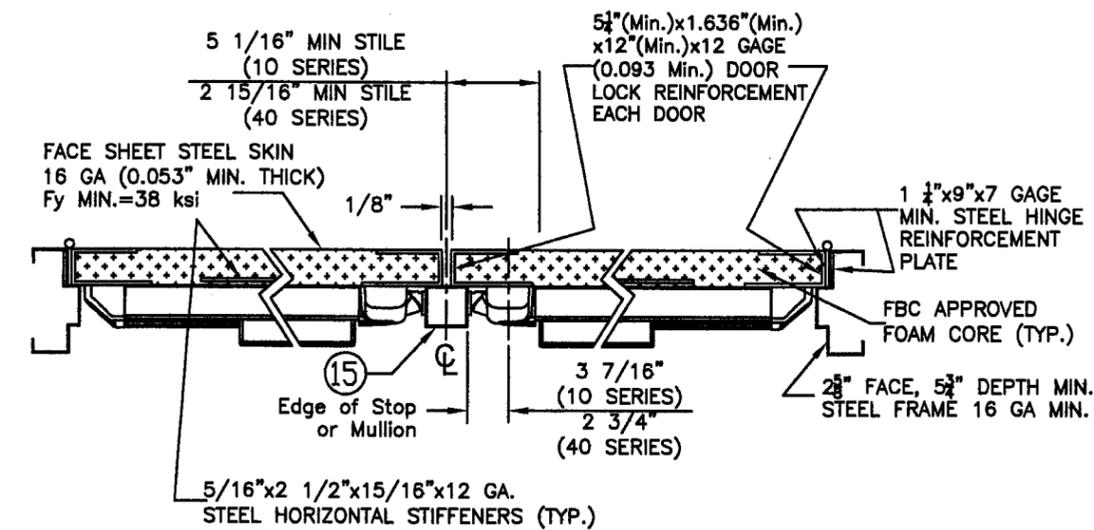
TILTECO inc.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
 Phone : (305)871-1530 . Fax : (305)871-1531
 EB-0006719
 WALTER A. TILLIT Jr., P.E.
 FLORIDA Lic. 44167

DETEX CORPORATION
 302 DETEX DRIVE
 NEW BRAUNFELS, TX 78130
 DATE: 02/10/10 DRAWN BY: M.C.V.
 SHEET TITLE: ADVANTEX SERIES RIM PANIC EXIT HARDWARE
 DRAWING NUMBER: 10-019 REVISION: OLD DADE05 SHEET: 3 of 8

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



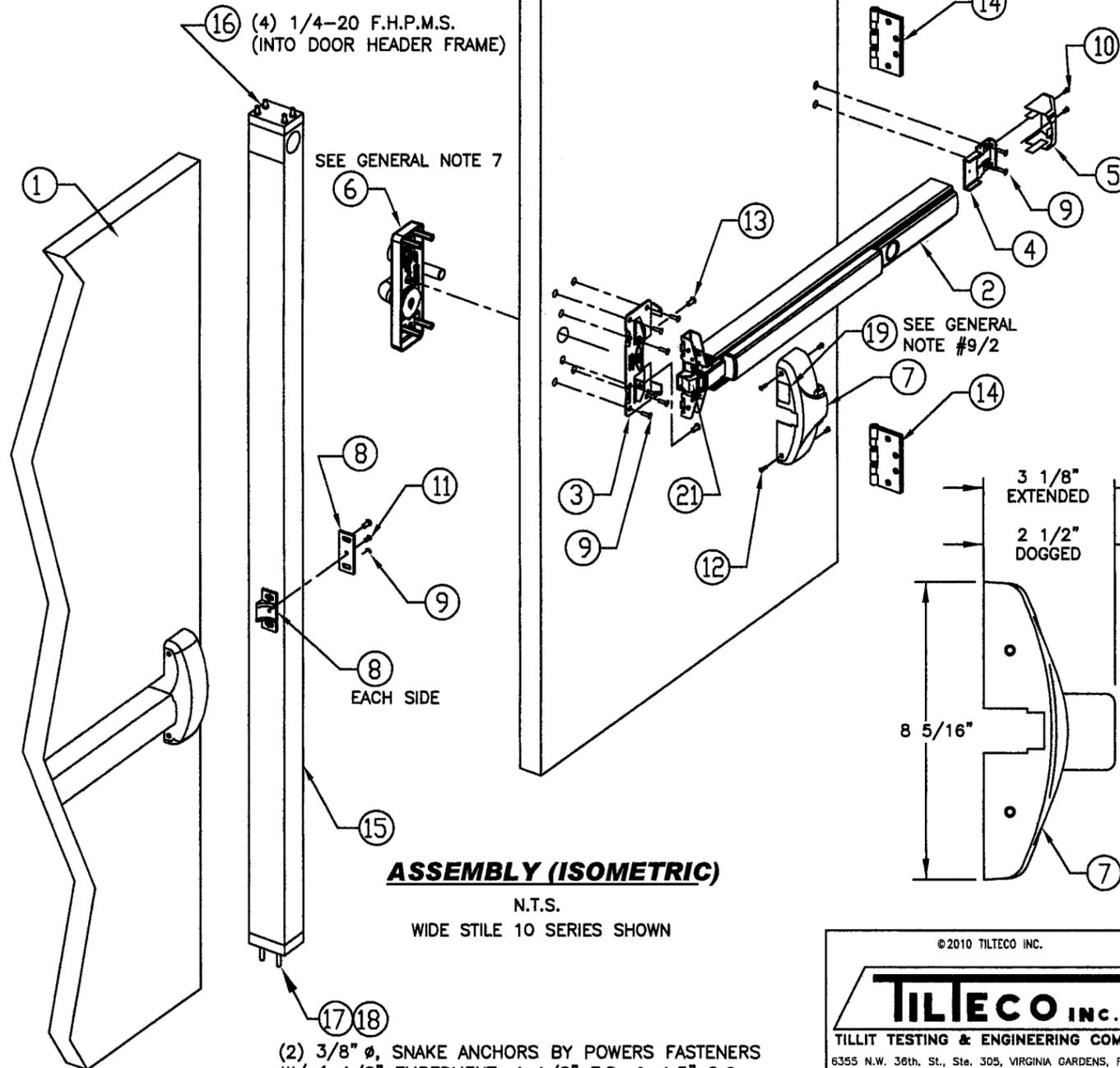
INTERIOR ELEVATION
N.T.S.



SECTION B-B
N.T.S.

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

| | |
|----------|----------|
| POSITIVE | +70 PSF, |
| NEGATIVE | -70 PSF. |



ASSEMBLY (ISOMETRIC)

N.T.S.
WIDE STILE 10 SERIES SHOWN

(2) 3/8" ϕ , SNAKE ANCHORS BY POWERS FASTENERS
W/ 1 1/2" EMBEDMENT, 4 1/2" E.D. & 1.5" O.C.

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:

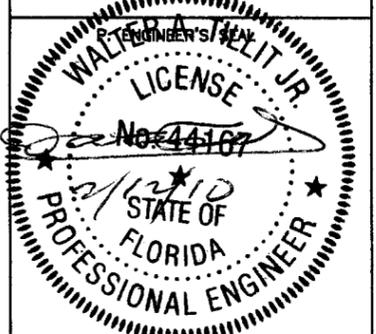
- EA = ELECTRONIC EXIT ALARM MODEL
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- EI = ELECTRONIC INTEGRATION
- EM = DELAY EGRESS WITH MAGNETIC LOCKING
- ER = ELECTRONIC LOCK/UNLOCK
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 - PO = POCONO
 - PR = PORTLAND
 - AT = ATLANTA
 - WG = WATKINS GLEN
 - BR = BRISTOL
 - MC = MONTE CARLO
 - LM = LA MANS
- * (N) SUFFIX SIGNIFIES NARROW TRIM DEVICES
* (F) 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



MIAMI-DADE COUNTY

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 10-0303-02
Expiration Date APR 07, 2015
By Ishag I. Chaudhry
Miami-Dade Product Control
Division

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TILTECO inc.

TILLIT TESTING & ENGINEERING COMPANY
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WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. 44167

DETEX CORPORATION
302 DETEX DRIVE
NEW BRAUNFELS, TX 78130

DATE: 02/10/10 DRAWN BY: M.C.V.

SHEET TITLE:
ADVANTEX SERIES RIM PANIC
EXIT HARDWARE

DRAWING NUMBER: REVISION: SHEET
10-019 OLD DADE05 4 of 8

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

- VALUE SERIES RIM PANIC EXIT HARDWARE, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE.

VALUE SERIES RIM PANIC EXIT HARDWARE MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS.

THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER HURRICANE TEST LABORATORY REPORT # 0345-0203-04 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1612 OF THE FLORIDA BUILDING CODE.
- DESIGN PRESSURE RATING SINGLE DOORS:**

| | |
|----------|----------|
| POSITIVE | +70 PSF, |
| NEGATIVE | -70 PSF. |
- VALUE RIM PANIC EXIT HARDWARE SHALL COMPLY WITH SECTIONS 1008.1.2, 1008.1.8.1, 1008.1.8.2, 1008.1.9 AND 11-4.13.11 OF THE FLORIDA BUILDING CODE 2007 EDITION AND ALL OTHER RELEVANT APPLICABLE SECTIONS OF THE CODE.
- ALL REINFORCEMENTS TO BE SPOT WELDED OR BETTER BY DOOR MANUFACTURER.
- ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS.
- 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.
- VALUE SERIES RIM PANIC EXIT DEVICE CAN BE SUPPLIED WITH THE FOLLOWING TRIM DESIGNATIONS: 02CHN, 02DAN, 02LSN, 02AN, 03CHN, 03PR(N), 03WS(N), 08BRN, 08DAN, 8LSN, 08MCN, 08TAN, 09BRN, 09DAN, 09LSN, 09MCN, 09TAN, 14BRN, 14DAN, 14LSN, 14TAN
- (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) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
- PANIC DEVICE'S MANUFACTURER LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL SHALL READ AS FOLLOWS:

DETEK CORPORATION or Detek company logo
NEW BRAUNFELS, TEXAS 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 | DETEK 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 | |
| 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) |

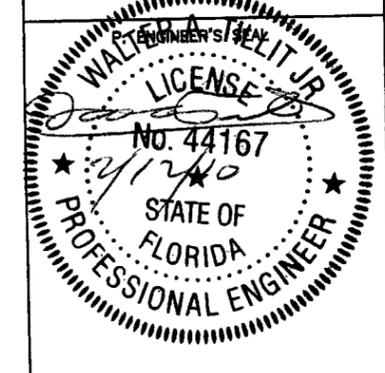
LIMITATIONS:

- 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.
- THE DOORS SHALL MEET FOLLOWING SPECIFICATIONS:
 - 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.
 - DOOR SLAB TO BE REINFORCED WITH MIN. TWO (2) 12 GA. STEEL HORIZONTAL "STIFFENERS".
 - 7 GA. STEEL HINGE PLATE REINFORCEMENT AT HINGE STILE AND AT THE FRAME.
 - FULL-WIDTH 12 GA. STEEL C-CANNEL TOP & BOTTOM END OF THE DOORS.
 - MIN. 12 GA. STEEL REINFORCEMENT AT STRIKE PLATE.
 - MIN. 12 GA. STEEL "U" CHANNEL AT LOCK STILE.
- 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
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CD = CYLINDER DOGGING
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TYPE TRIM ABBREVIATIONS MEANING:
DAN = DAYTONA NARROW
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WS = WILLOW SPRINGS
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CHN = CHARLOTTE NARROW
PR = PORTLAND
PRN = PORTLAND NARROW
AT = ATLANTA
ATN = ATLANTA NARROW
BRN = BRISTOL NARROW
MCN = MONTE CARLO NARROW
LMN = LA MANA 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



MIAMI-DADE COUNTY

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 10-0303-02
Expiration Date APR 07, 2015
By: *Isaac L. Ganga*
Miami Dade Product Control Division

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TILTECO inc.

TILLIT TESTING & ENGINEERING COMPANY

6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
EB-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. 44167

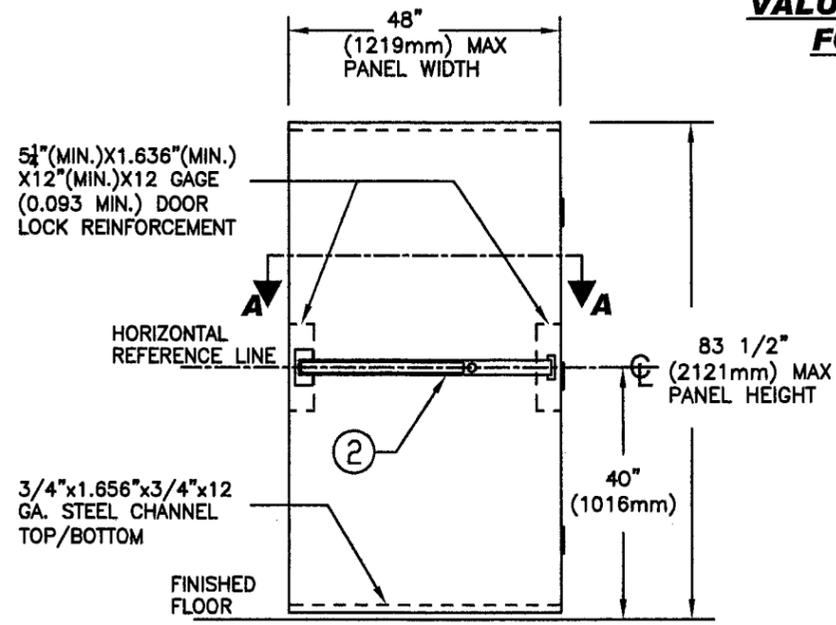
DETEK CORPORATION
302 DETEK DRIVE
NEW BRAUNFELS, TX 78130

DATE: 02/10/10 DRAWN BY: M.C.V.

SHEET TITLE: VALUE SERIES SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: 10-019 REVISION: OLD DADE05 SHEET: 5 of 8

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

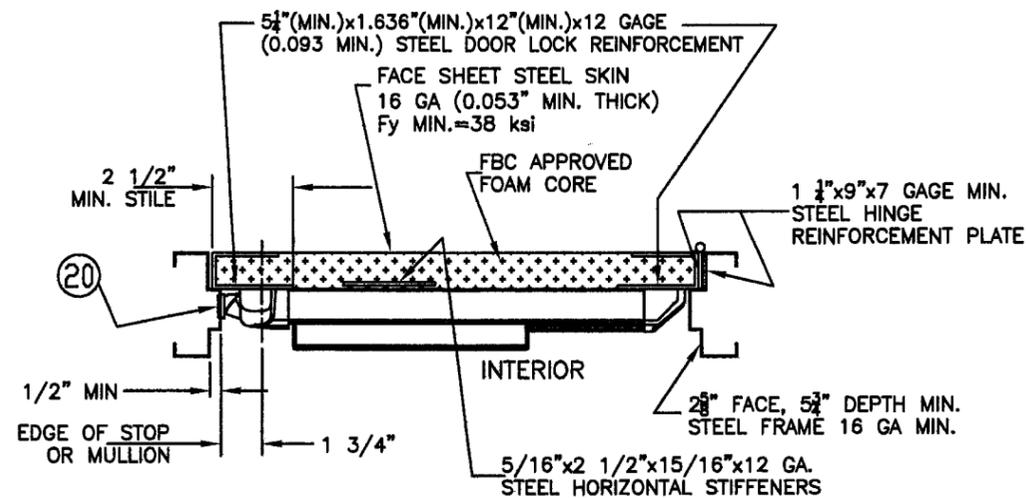


INTERIOR ELEVATION

N.T.S.

DESIGN PRESSURE RATING SINGLE DOORS:

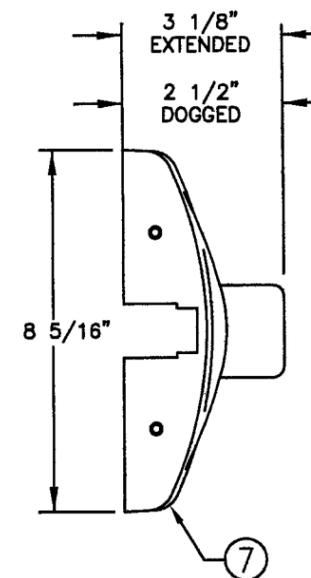
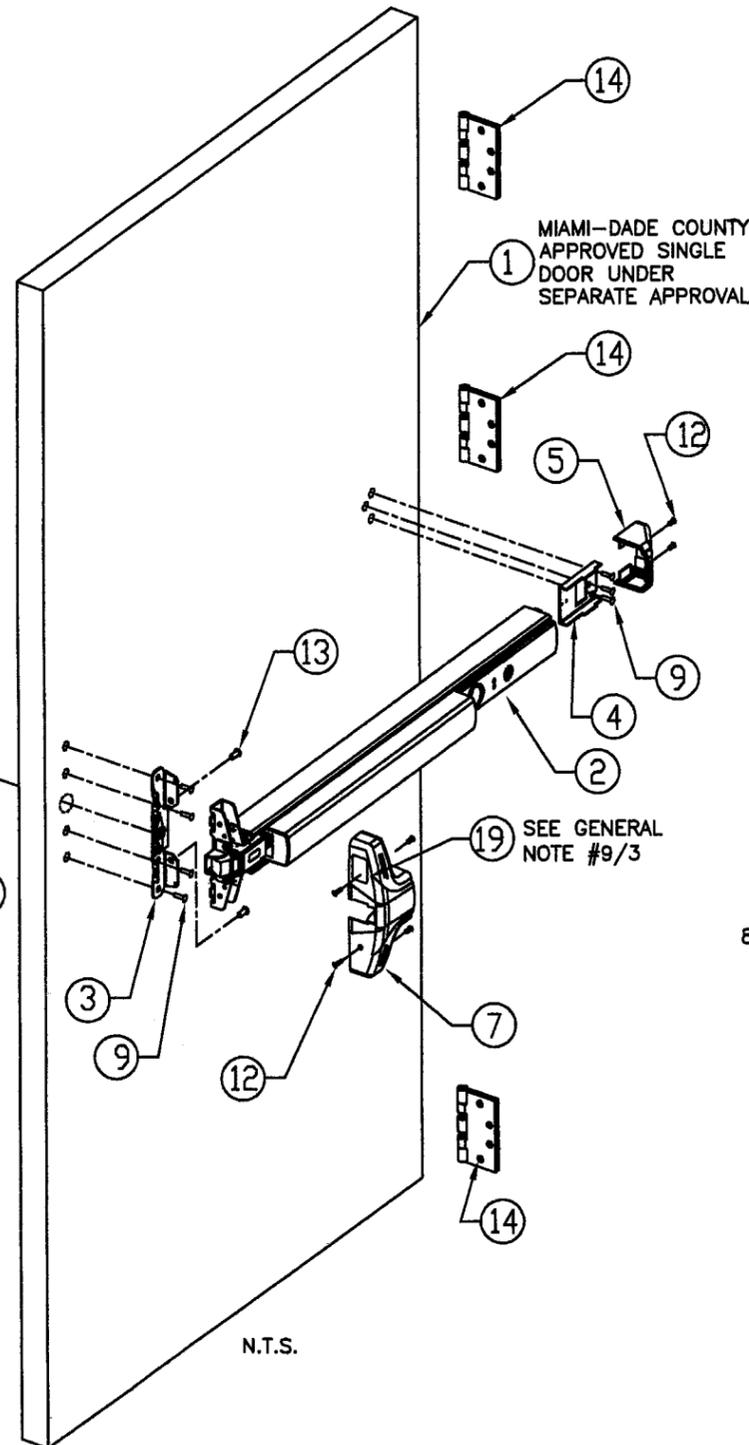
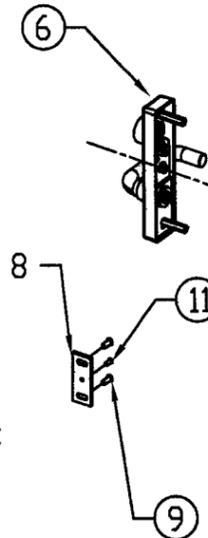
| | |
|----------|----------|
| POSITIVE | +70 PSF, |
| NEGATIVE | -70 PSF. |



SECTION A-A

N.T.S.

SEE GENERAL NOTE 7



UNDERWRITER'S LABORATORIES - UL10C, UBC 7-2 (1997)
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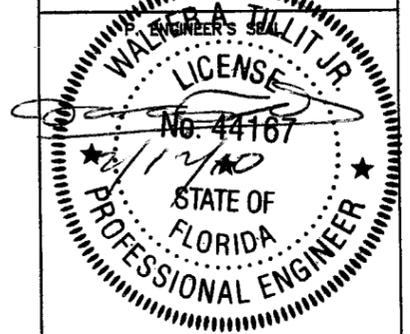
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LMN = LA MAN'S NARROW
** PREFIX SIGNIFIES FIRE RATE RIM PANIC DEVICES

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MIAMI-DADE COUNTY

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 16-0303-02
Expiration Date APR 07, 2015
By: *Shag J. Chande*
Miami Dade Product Control Division

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TILTECO inc.

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FLORIDA Lic. 44167

DETEX CORPORATION
302 DETEX DRIVE
NEW BRAUNFELS, TX 78130

DATE: 02/10/10 DRAWN BY: M.C.V.

SHEET TITLE:
VALUE SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: 10-019 REVISION: OLD 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.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE.

VALUE SERIES RIM PANIC EXIT HARDWARE MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS.

THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER HURRICANE TEST LABORATORY REPORT # 0345-0203-04 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1612 OF THE FLORIDA BUILDING CODE.

2. **DESIGN PRESSURE RATING DOUBLE DOORS:**

| | |
|----------|----------|
| POSITIVE | +70 PSF, |
| NEGATIVE | -70 PSF. |

3. VALUE RIM PANIC EXIT HARDWARE SHALL COMPLY WITH SECTIONS 1008.1.2, 1008.1.8.1, 1008.1.8.2, 1008.1.9 AND 11-4.13.11 OF THE FLORIDA BUILDING CODE 2007 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. VALUE SERIES PANIC EXIT DEVICE 10 AND 40 SERIES RIM 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 PANIC EXIT DEVICE 10 AND 40 SERIES RIM CAN BE SUPPLIED WITH THE FOLLOWING TRIM DESIGNATIONS:
02CHN, 02DAN, 02LSN, 02AN, 03CHN, 03PR(N), 03WS(N), 08BRN, 08DAN, 8LSN, 08MCN, 08TAN, 09BRN, 09DAN, 09LSN, 09MCN, 09TAN, 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) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

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

9. PANIC DEVICE'S MANUFACTURER LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL SHALL READ AS FOLLOWS:

DETEK CORPORATION or Detek company logo
NEW BRAUNFELS, TEXAS 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 | DETEK 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, SNAKE ANCHORS BY POWERS FASTENERS W/ 1 1/2" 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.

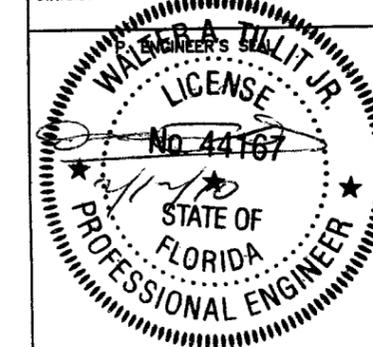
UNDERWRITER'S LABORATORIES - UL10C, UBC 7-2 (1997)
ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE FOR INFORMATION ONLY.
(NOT PART OF THE APPROVAL)
ELECTRIFIED ABBREVIATIONS MEANING:
EB = ELECTRONIC EXIT ALARM MODEL
ED = ELECTRONIC DOGGING MODEL
EE = DELAY EGRESS
EI = ELECTRONIC INTEGRATION
EM = DELAY EGRESS WITH 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 = 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 MANS 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



MIAMI-DADE COUNTY

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 10-0303-02
Expiration Date APR 07, 2015
By: *Ishag I. Chaudhry*
Miami-Dade Product Control Division

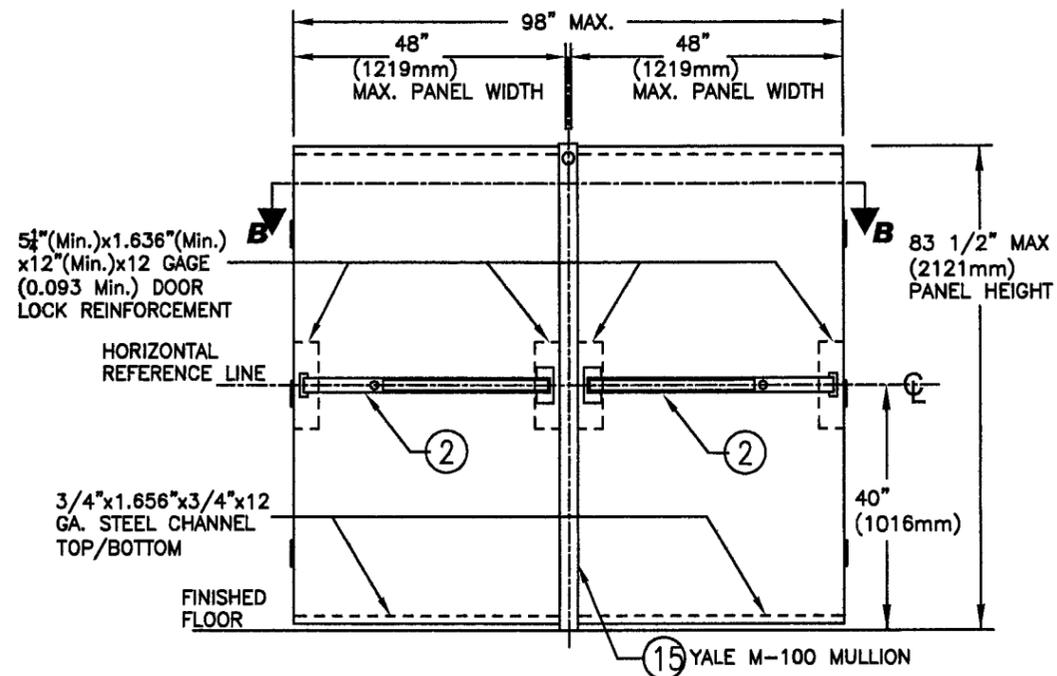
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TILTECO inc.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. 44167

DETEK CORPORATION
302 DETEK DRIVE
NEW BRAUNFELS, TX 78130
DATE: 02/10/10 DRAWN BY: M.C.V.
SHEET TITLE:
VALUE SERIES SERIES RIM PANIC EXIT HARDWARE
DRAWING NUMBER: REVISION: SHEET
10-019 OLD DADE05 7 of 8

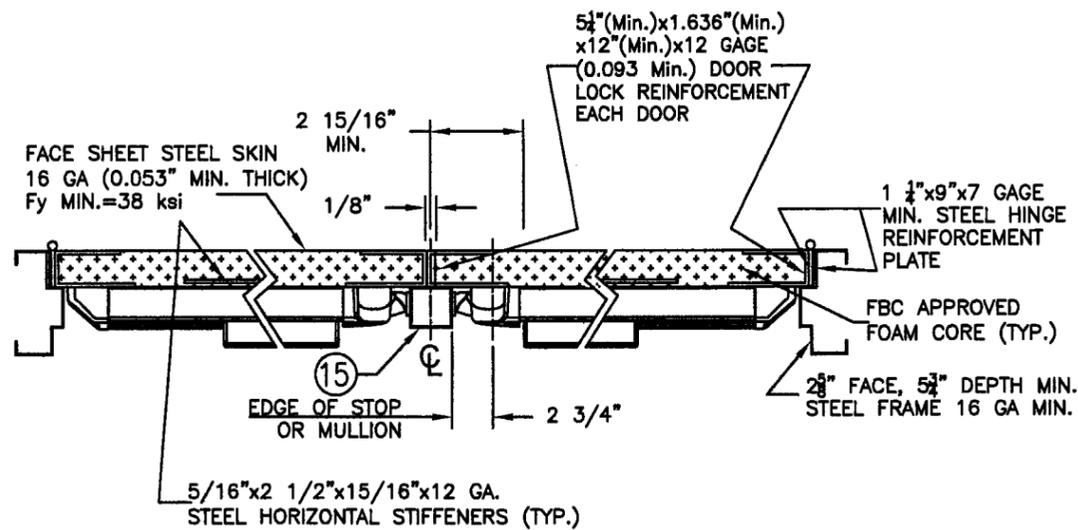
VALUE SERIES HV40 & FHV40* RIM DEVICE INSTALLATION FOR HURRICANE CODE. DOUBLE DOOR APPLICATION W/ YALE MULLION

DESIGN PRESSURE RATING DOUBLE DOORS:

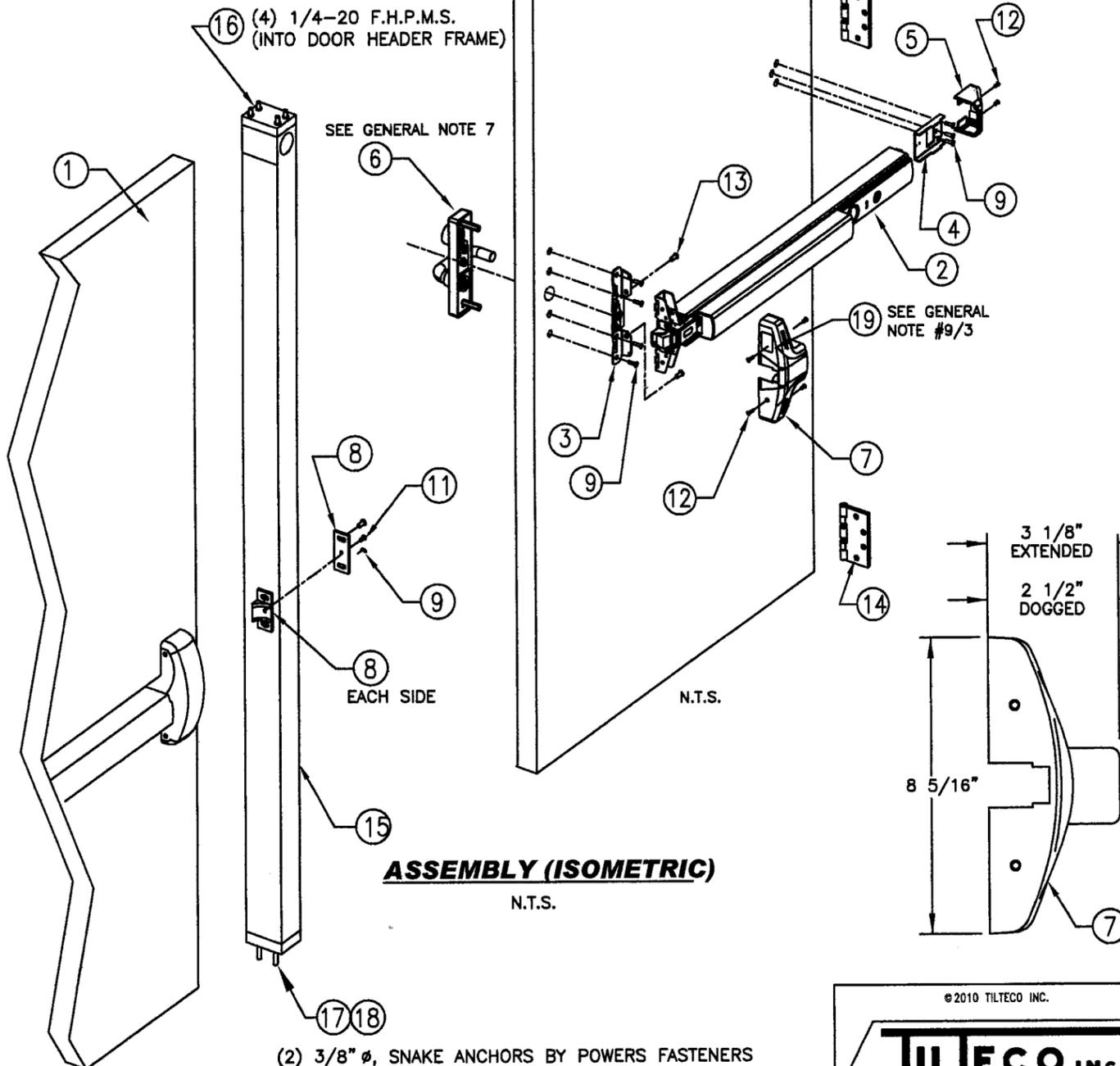
| | |
|----------|----------|
| POSITIVE | +70 PSF, |
| NEGATIVE | -70 PSF. |



INTERIOR ELEVATION
N.T.S.



SECTION B-B
N.T.S.



ASSEMBLY (ISOMETRIC)
N.T.S.

(2) 3/8" ϕ , SNAKE ANCHORS BY POWERS FASTENERS W/ 1 1/2" EMBEDMENT, 4 1/2" E.D. & 1.5" O.C.

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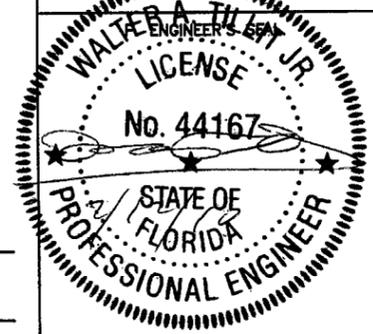
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MIAMI-DADE COUNTY

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No 10-0303-02
Expiration Date APR 07, 2015
By Ishag I. Khan - Miami Dade Product Control Division

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DETEX CORPORATION
302 DETEX DRIVE
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DATE: 02/10/10 DRAWN BY: M.C.V.
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DRAWING NUMBER: 10-019 REVISION: OLD DADE05 SHEET: 8 of 8