



**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

**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 and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (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. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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. 12-025 , titled "Advantex Series RIM Panic Exit Hardware" sheets 1 through 8 of 8, prepared by Tilteco, Inc., dated 01/26/12, signed and sealed by Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

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 series and following statement: "Miami-Dade County Product Control Approved", 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 NOA # 10-0303.02 and 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 12-0209.11
Expiration Date: April 07, 2015
Approval Date: May 03, 2012
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts drawings and sections (transferred from file # **10-0303.02**)
2. Drawing No. **12-025**, titled "Advantex Series RIM Panic Exit Hardware" sheets 1 through 8 of 8, prepared by Tilteco, Inc., dated 01/26/12, signed and sealed by Walter A. Tillit Jr., P.E.

Note: This revision consists of FBC 2010 notes only.

B. TESTS (transferred from file # **10-0303.02)**

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, 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 Tilteco, Inc, signed and sealed by Walter A. Tillie Jr., P.E. (transferred from file # **10-0303.02**)

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. None

F. STATEMENTS

1. Statement letter of conformance to FBC 2010, dated 02/01/12 issued by Tilteco Inc., signed and sealed by Walter A. Tillie, P.E.
2. Statement letter of conformance to FBC 2007 and no financial interest dated 02/11/10, signed and sealed by Walter A. Tillie, P.E. (submitted under file # **10-0303.02**)
3. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA **revises** NOA # **10-0303.02**, expiring on April 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 12-0209.11
Expiration Date: April 07, 2015
Approval Date: May 03, 2012

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 & 2010 EDITIONS 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 CODES, USING ASCE 7-05 STANDARD FOR INSTALLATIONS UNDER 2007 FBC & ASCE 7-10 FOR INSTALLATIONS UNDER 2010 FBC AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

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 SECTIONS 1612 & 1615 OF THE FLORIDA BUILDING CODE, 2007 & 2010 EDITIONS, RESPECTIVELY.

MAX. A.S.D. DESIGN PRESSURE RATING SINGLE DOORS:

POSITIVE	+70 PSF,
NEGATIVE	-70 PSF.

3. ADVANTEX RIM PANIC EXIT HARDWARE SHALL COMPLY WITH SECTIONS 1008.1.2, 1008.1.9.1, 1008.1.9.2, 1008.1.10 AND 1101 OF THE FLORIDA BUILDING CODE 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-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:

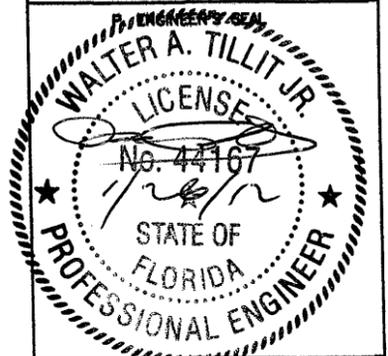
- EA = ELECTRONIC EXIT ALARM MODEL
- ED = ELECTRONIC DOGGING MODEL
- EE = DELAY EGRESS
- EI = ELECTRONIC INTEGRATION
- EM = DELAY EGRESS WITH MAGNETIC LOCKING
- ER = ELECTRONIC LOCK/UNLOCK
- ES = ELECTRONIC LATCH RETRACTION
- EX = ELECTRONIC SIGNAL SWITCH
- W = WEATHERIZED
- CD = CYLINDER DOGGING
- HD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

TYPE TRIM ABBREVIATIONS MEANING:

- DA = DAYTONA
- LS = LAGUNA SEGA
- TA = TALLADEGA
- WS = WILLOW SPRINGS
- CH = CHARLOTTE
- PO = POCONO
- PR = PORTLAND
- AT = ATLANTA
- WG = WATKINS GLEN
- BR = BRISTOL
- MC = MONTE CARLO
- LM = LA MANS
- "NO" SUFFIX SIGNIFIES NARROW TRIM DEVICE
- "F" PREFIX SIGNIFIES FIRE RATED 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 REVISED

in accordance with the Florida Building Code
 Acceptance No 12-0209-11
 Expiration Date APR 07, 2015
 By Ishag L. Chank
 Miami Dade Product Control

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TILLIT TESTING & ENGINEERING COMPANY
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 e-mail: tilteco@aol.com
 EB-0006719
 WALTER A. TILLIT Jr., P.E.
 FLORIDA Lic. 44167

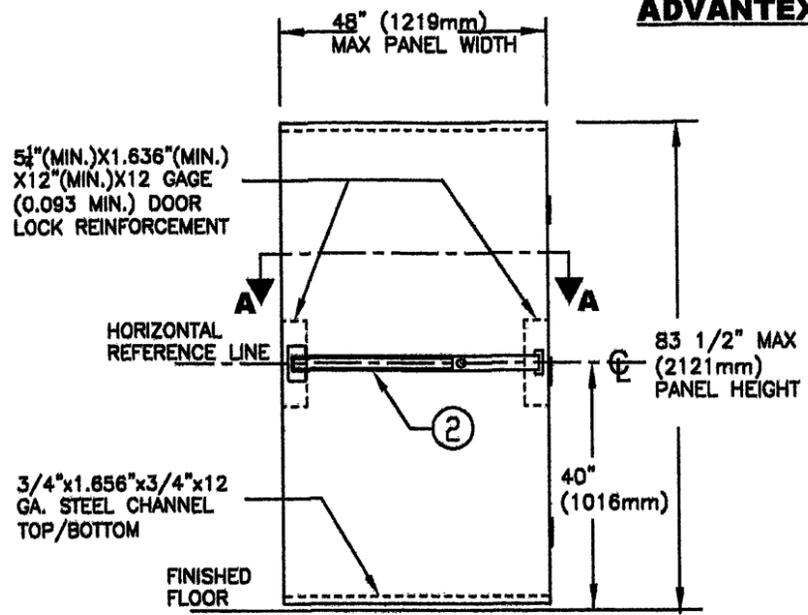
DETEX CORPORATION
 302 DETEX DRIVE
 NEW BRAUNFELS, TX 78130

DATE: 01/25/12 DRAWN BY: M.C.V./A.G.

SHEET TITLE:
ADVANTEX SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: REVISION: SHEET
 12-025 OLD 10-019 1 of 8

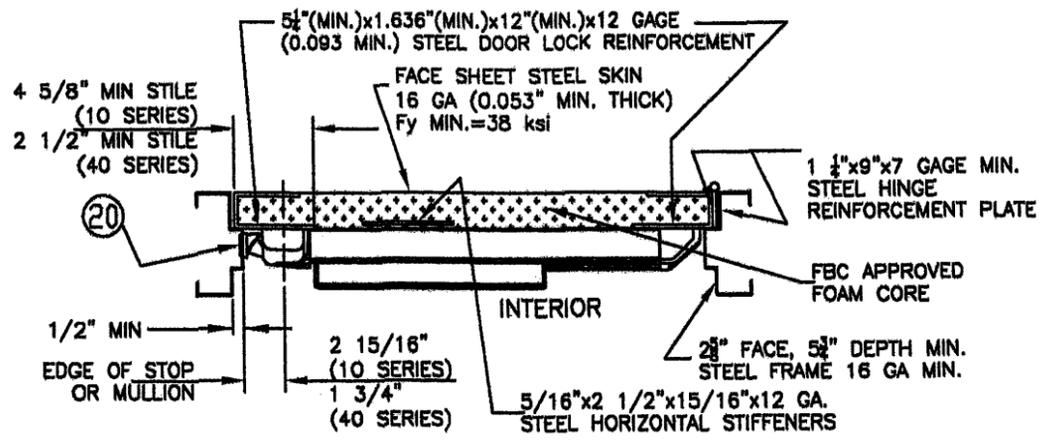
**ADVANTEK H10 & FH10* SERIES (WIDE) & ADVANTEK H40 & FH40* SERIES (NARROW) RIM DEVICE
INSTALLATION FOR HURRICANE CODE. SINGLE DOOR APPLICATION**



INTERIOR ELEVATION
N.T.S.

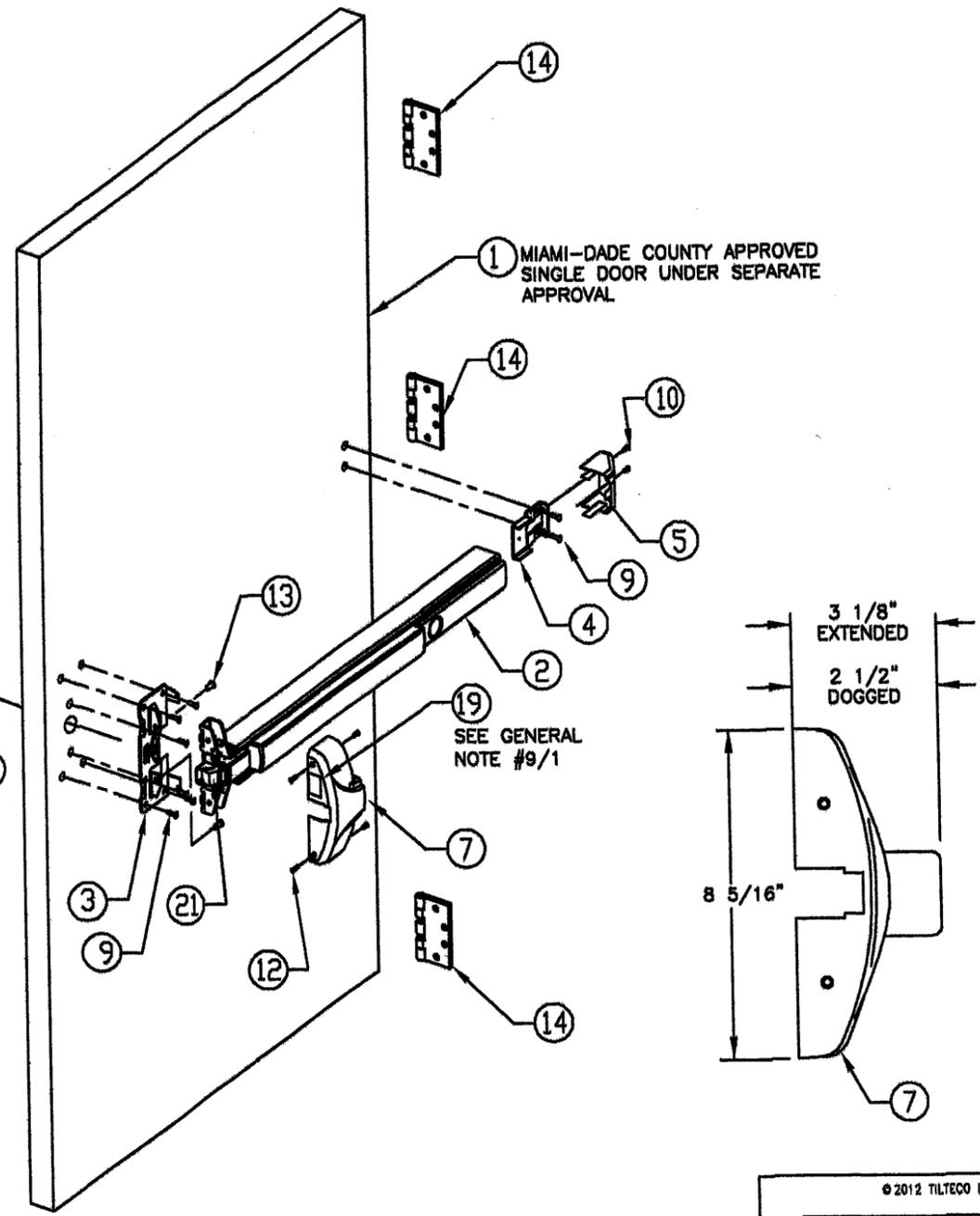
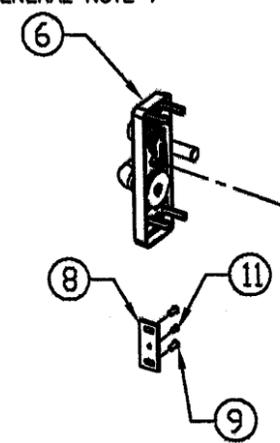
MAX. A.S.D. DESIGN PRESSURE RATING SINGLE DOORS:

POSITIVE	+70 PSF.
NEGATIVE	-70 PSF.

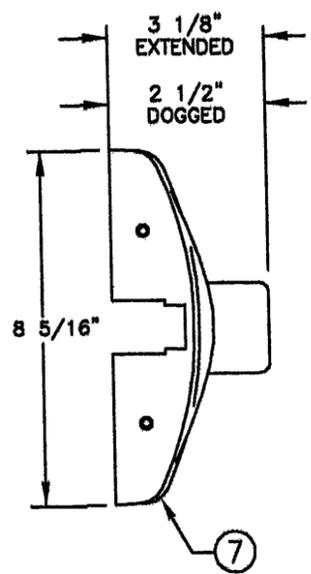


SECTION A-A
N.T.S.

SEE GENERAL NOTE 7



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

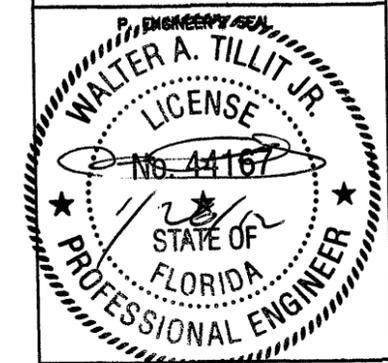


UNDERWRITER'S LABORATORIES - UL10C, UBC 7-2 (1997)
ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE FOR INFORMATION ONLY.
(NOT PART OF THE APPROVAL)

- ELECTRIFIED ABBREVIATIONS MEANING:**
- EA = ELECTRONIC EXIT ALARM MODEL
 - ED = ELECTRONIC DOGGING MODEL
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 - EI = ELECTRONIC INTEGRATION
 - EM = DELAY EGRESS WITH MAGNETIC LOCKING
 - ER = ELECTRONIC LOCK/UNLOCK
 - ES = ELECTRONIC LATCH RETRACTION
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 - W = WEATHERIZED
 - CD = CYLINDER DOGGING
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- TYPE TRIM ABBREVIATIONS MEANING:**
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 - PR = PORTLAND
 - AT = ATLANTA
 - WG = WATKINS GLEN
 - BR = BRISTOL
 - MC = MONTE CARLO
 - LM = LA MANS

- * (N) SUFFIX SIGNIFIES NARROW TRIM DEVICE
* (P) 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 REVISED
in compliance with the Florida Building Code
Amendment No 12-0209-11
Expiration Date 4/7/15
By: *Isang I. Chanda*
Miami Dade Product Control

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TILTECO inc.

TILLIT TESTING & ENGINEERING COMPANY
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EB-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. 44167

DETEX CORPORATION
302 DETEX DRIVE
NEW BRAUNFELS, TX 78130

DATE: 01/25/12 DRAWN BY: M.C.V./A.G.

SHEET TITLE:
ADVANTEK SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: REVISION: SHEET
12-025 OLD 10-019 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 & 2010 EDITIONS 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 CODES, USING ASCE 7-05 STANDARD FOR INSTALLATIONS UNDER 2007 FBC & ASCE 7-10 FOR INSTALLATIONS UNDER 2010 FBC AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

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 SECTIONS 1612 & 1615 OF THE FLORIDA BUILDING CODE, 2007 & 2010 EDITIONS, RESPECTIVELY.

MAX. A.S.D. 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, 1008.1.9.1, 1008.1.9.2, 1008.1.10 AND 1101 OF THE FLORIDA BUILDING CODE 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)=0.18" 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 - UL10C, UBC 7-2 (1997)
ANSI/BHMA A156.3 GRADE 1 EXIT DEVICE FOR INFORMATION ONLY.
(NOT PART OF THE APPROVAL)

ELECTRIFIED ABBREVIATIONS MEANING:

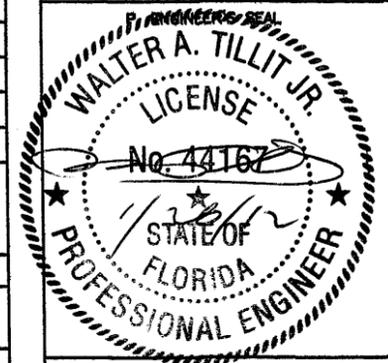
EA = ELECTRONIC EXIT ALARM MODEL
ED = ELECTRONIC DOGGING MODEL
EE = DELAY EGRESS
EI = ELECTRONIC INTEGRATION
EM = DELAY EGRESS WITH MAGNETIC LOCKING
ER = ELECTRONIC LOCK/UNLOCK
ES = ELECTRONIC LATCH RETRACTION
EX = ELECTRONIC SIGNAL SWITCH
W = WEATHERIZED
CD = CYLINDER DOGGING
HD = HEX DOGGING
LD = LESS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



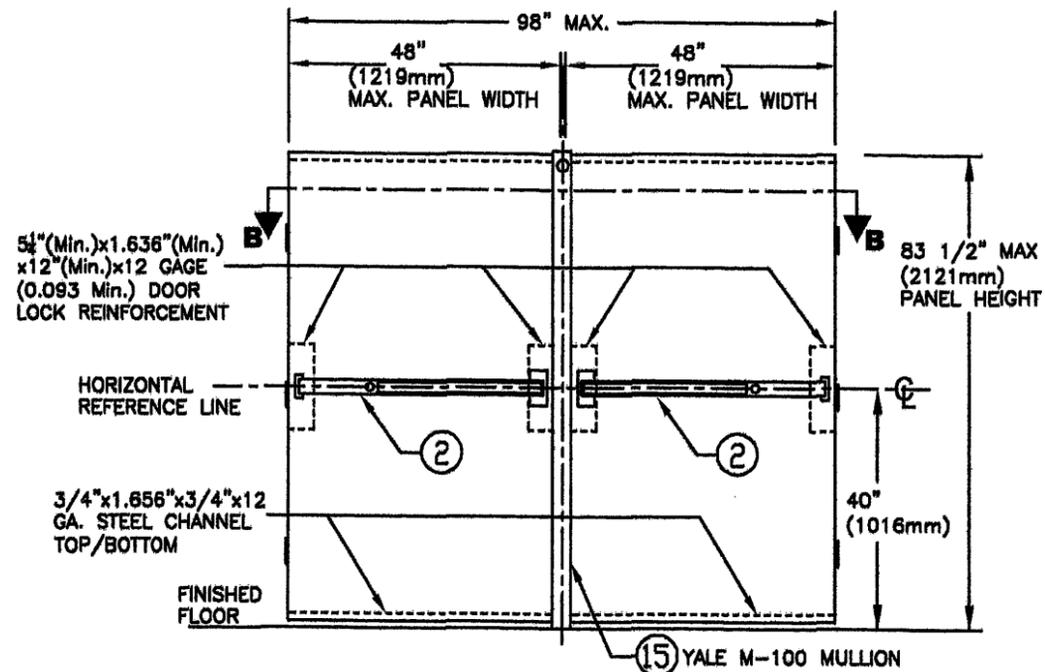
MIAMI-DADE COUNTY

PRODUCT REVISED
In compliance with the Florida Building Code
Acceptance No. 12-0209.11
Expiration Date 4/7/15
By: [Signature]
Miami Dade Product Control

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. 44167

DETEX CORPORATION
302 DETEX DRIVE
NEW BRAUNFELS, TX 78130
DATE: 01/25/12 DRAWN BY: M.C.V./A.G.
SHEET TITLE: ADVANTEX SERIES RIM PANIC EXIT HARDWARE
DRAWING NUMBER: 12-025 REVISION: OLD 10-019 SHEET 3 of 8

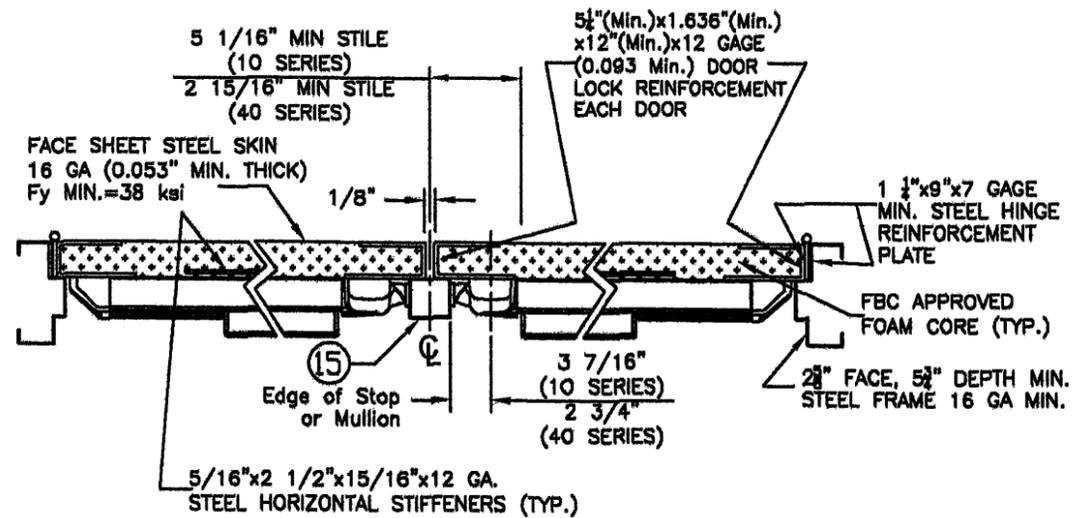
**ADVANTECH H10 & FH10* SERIES (WIDE) AND ADVANTECH H40 & FH40* SERIES (NARROW) RIM
DEVICE INSTALLATION FOR HURRICANE CODE. DOUBLE DOOR APPLICATION W/ YALE MULLION**



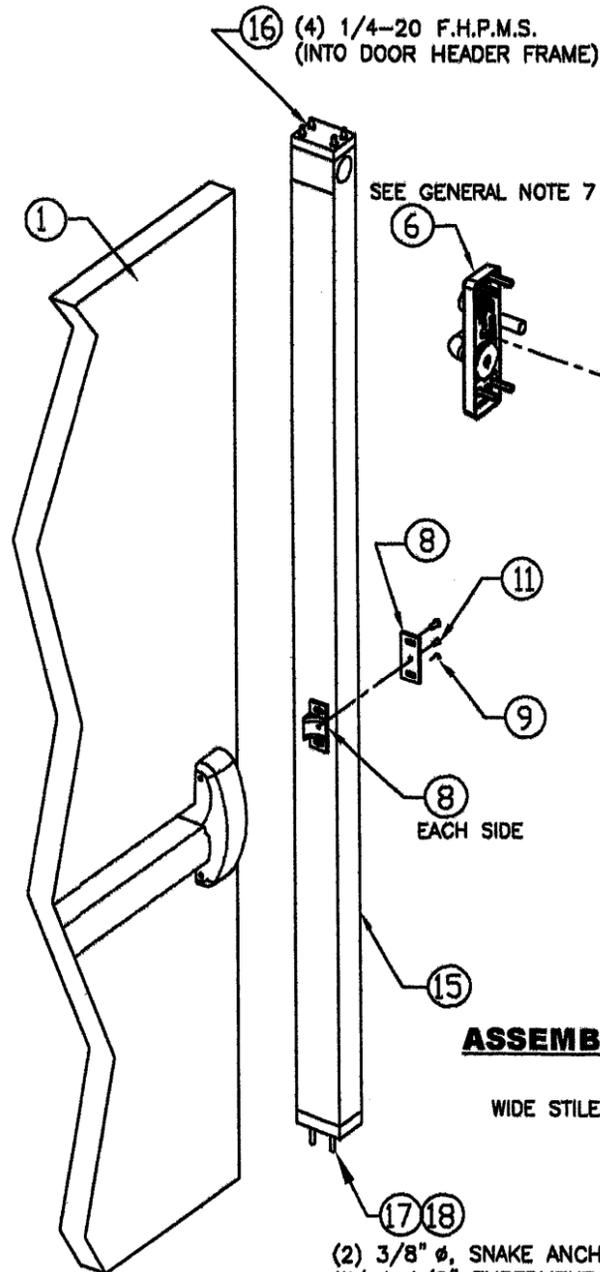
INTERIOR ELEVATION
N.T.S.

MAX. A.S.D. DESIGN PRESSURE RATING DOUBLE DOORS
W/ YALE SERIES M-100 MULLION:

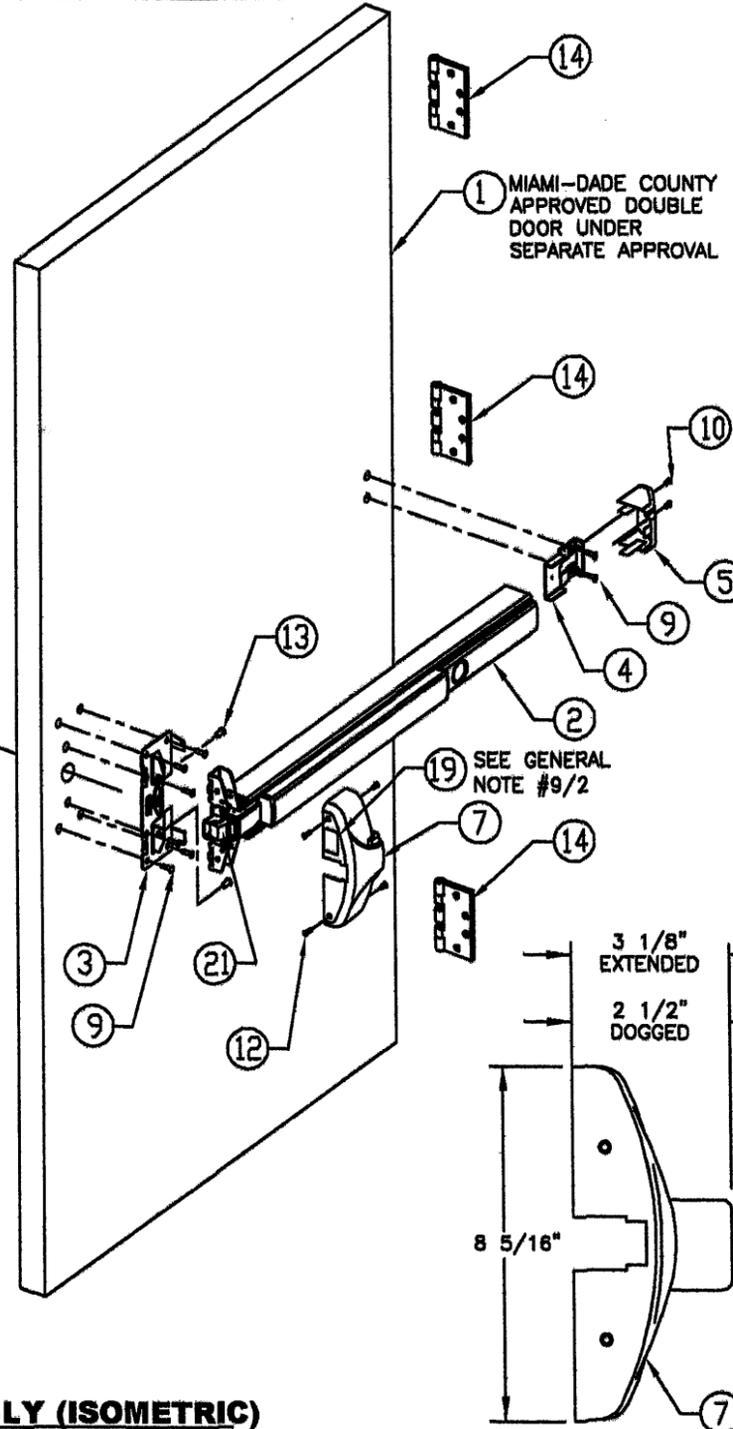
POSITIVE	+70 PSF,
NEGATIVE	-70 PSF.



SECTION B-B
N.T.S.



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



UNDERWRITER'S LABORATORIES - UL10C, UBC 7-2 (1997)
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(NOT PART OF THE APPROVAL)

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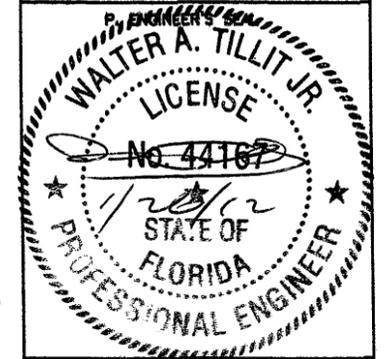
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 - AT = ATLANTA
 - WG = WATKINS GLEN
 - BR = BRISTOL
 - MC = MONTE CARLO
 - LM = LA MANS
- *"N" SUFFIX SIGNIFIES NARROW TRIM DEVICES
**"P" PREFIX SIGNIFIES FIRE RATE RIM FINISH DEVICES

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 REVISED
to comply with the Florida Building Code
Acceptance No. 12-0209.11
Expiration Date 4/7/15
By: [Signature]
Miami Dade Product Control

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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: 01/25/12	DRAWN BY: M.C.V./A.G.
SHEET TITLE: ADVANTECH SERIES RIM PANIC EXIT HARDWARE	
DRAWING NUMBER: 12-025	REVISION: OLD 10-019
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.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 & 2010 EDITIONS 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 CODES, USING ASCE 7-05 STANDARD FOR INSTALLATIONS UNDER 2007 FBC & ASCE 7-10 FOR INSTALLATIONS UNDER 2010 FBC AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

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 SECTIONS 1612 & 1615 OF THE FLORIDA BUILDING CODE, 2007 & 2010 EDITIONS, RESPECTIVELY.

MAX. A.S.D. DESIGN PRESSURE RATING SINGLE DOORS:

POSITIVE	+70 PSF,
NEGATIVE	-70 PSF.

3. VALUE RIM PANIC EXIT HARDWARE SHALL COMPLY WITH SECTIONS 1008.1.2, 1008.1.9.1, 1008.1.9.2, 1008.1.10 AND 1101 OF THE FLORIDA BUILDING CODE 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 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: 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:

DETEX CORPORATION or **Detex 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	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	
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.
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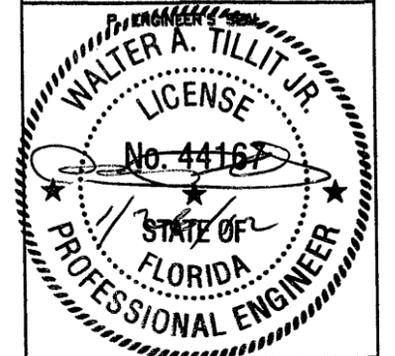
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TYPE TRIM ABBREVIATIONS MEANING:

DAN = DAYTONA NARROW
LSN = LAGUNA SEGA NARROW
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PRN = PORTLAND NARROW
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ATN = ATLANTA NARROW
BRN = BRISTOL NARROW
MCN = MONTE CARLO NARROW
LMN = LA MAN'S NARROW
* PREFIX INDICATES FIRE RATING 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



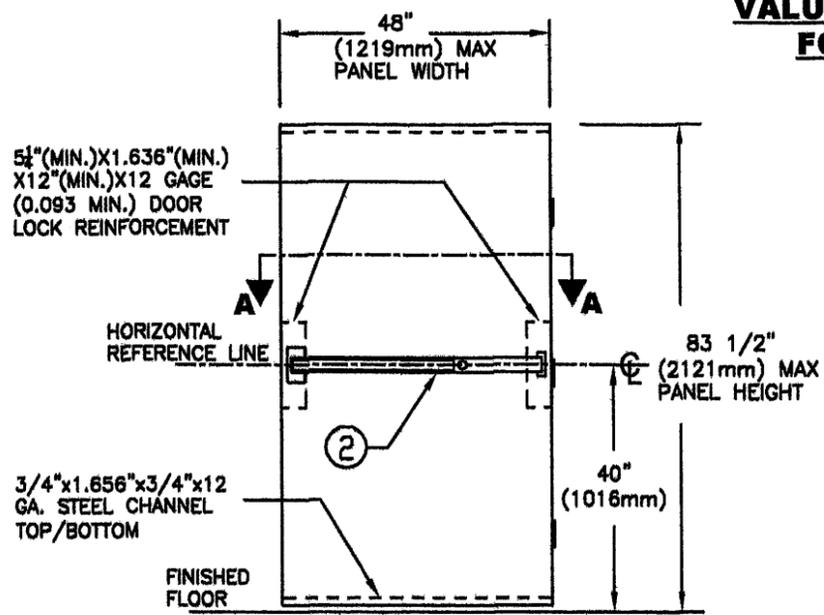
MIAMI-DADE COUNTY

PRODUCT REVIEWED
In compliance with the Florida Building Code
Acceptance No. 12-0209-11
Expiration Date 4/7/15
By: Ishing I. Chavira
Miami Dade Product Control

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

DETEX CORPORATION
302 DETEX DRIVE
NEW BRAUNFELS, TX 78130
DATE: 01/25/12 DRAWN BY: M.C.V./A.G.
SHEET TITLE:
VALUE SERIES SERIES RIM PANIC EXIT HARDWARE
DRAWING NUMBER: 12-025 REVISION: OLD 10-019 SHEET 5 of 8

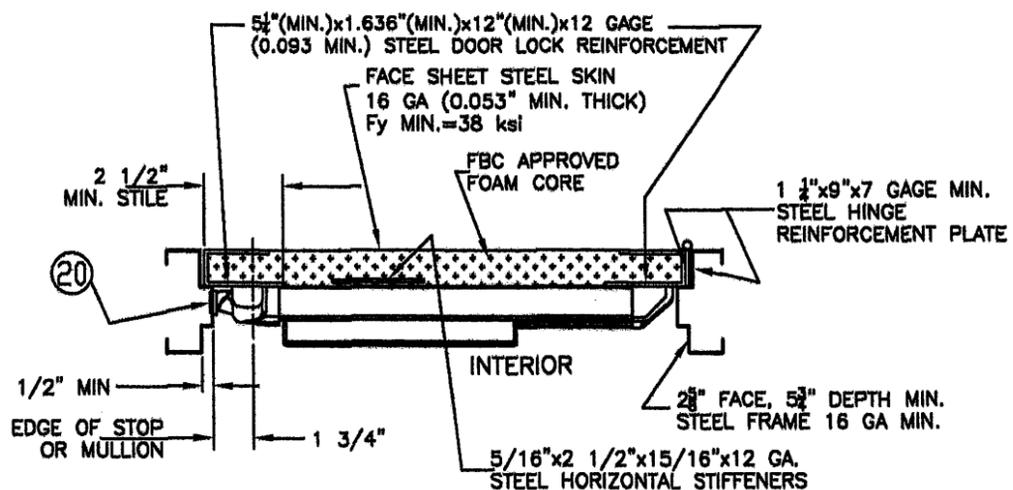
**VALUE SERIES HV40 & FHV40* RIM DEVICE INSTALLATION
FOR HURRICANE CODE. SINGLE DOOR APPLICATION**



INTERIOR ELEVATION
N.T.S.

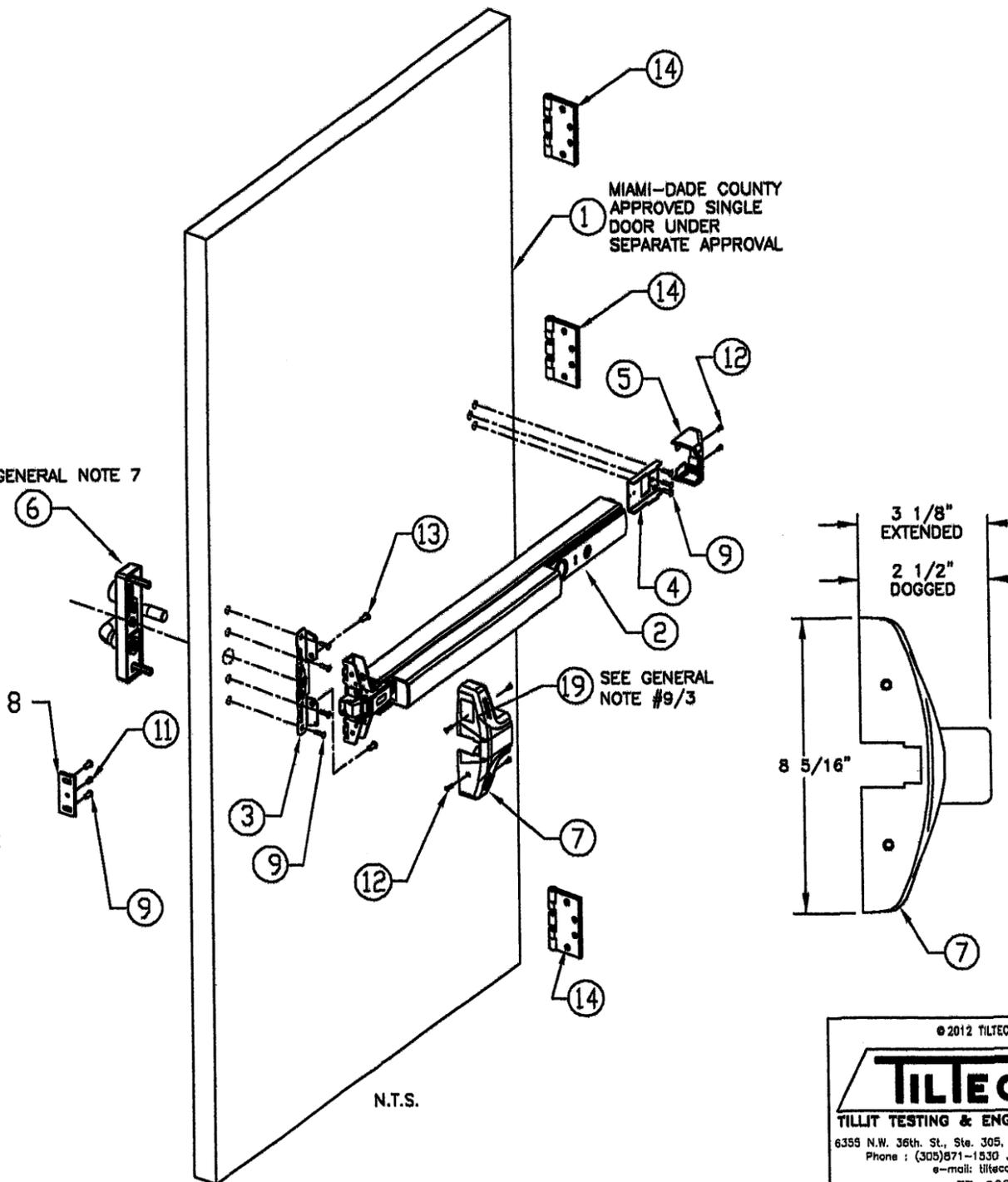
MAX. A.S.D. DESIGN PRESSURE RATING SINGLE DOORS:

POSITIVE	+70 PSF,
NEGATIVE	-70 PSF.



SECTION A-A
N.T.S.

SEE GENERAL NOTE 7



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

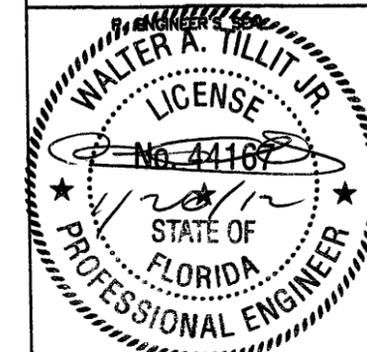
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S.H.C.S. = SOCKET HEAD CAP SCREW



MIAMI-DADE COUNTY

PRODUCT REVISED
in compliance with the Florida Building Code
Approval No. 12-0209-11
Expiration Date 4/7/15
By Isang L. Chang
Miami Dade Precept Control

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY

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302 DETEX DRIVE
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DATE: 01/25/12 DRAWN BY: M.C.V./A.G.

SHEET TITLE:
VALUE SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: 12-025 REVISION: OLD 10-019 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 & 2010 EDITIONS 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 CODES, USING ASCE 7-05 STANDARD FOR INSTALLATIONS UNDER 2007 FBC & ASCE 7-10 FOR INSTALLATIONS UNDER 2010 FBC AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

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 SECTIONS 1612 & 1615 OF THE FLORIDA BUILDING CODE, 2007 & 2010 EDITIONS, RESPECTIVELY.

2. MAX. A.S.D. DESIGN PRESSURE RATING DOUBLE DOORS:

POSITIVE	+70 PSF,
NEGATIVE	-70 PSF.

3. VALUE RIM PANIC EXIT HARDWARE SHALL COMPLY WITH SECTIONS 1008.1.2, 1008.1.9.1, 1008.1.9.2, 1008.1.10 AND 1101 OF THE FLORIDA BUILDING CODE 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:

DETEX CORPORATION or *Detex 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	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, 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:

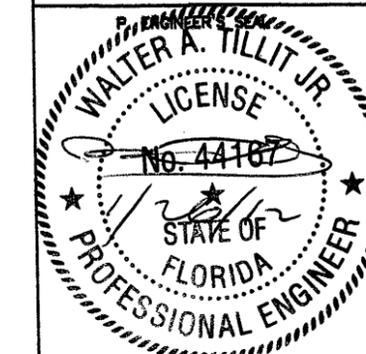
EB = ELECTRONIC EXIT ALARM MODEL
ED = ELECTRONIC DOGGING MODEL
EE = DELAY EGRESS
EI = ELECTRONIC INTEGRATION
EM = DELAY EGRESS WITH MAGNETIC LOCKING
ER = ELECTRONIC LOCK/UNLOCK
ES = ELECTRONIC LATCH RETRACTION
EX = ELECTRONIC SIGNAL SWITCH
W = WEATHERIZED
CD = CYLINDER DOGGING
HD = HEX DOGGING
LD = LESS 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 MANA NARROW
7" PREP. SCHEDULE PRE. 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 REVIEWED
In compliance with the Florida Building Code
Acceptance No. 12-0209-11
Expiration Date 4/7/16
By: *Shag I. Chand*
Miami Dade Product Control

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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
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. 44167

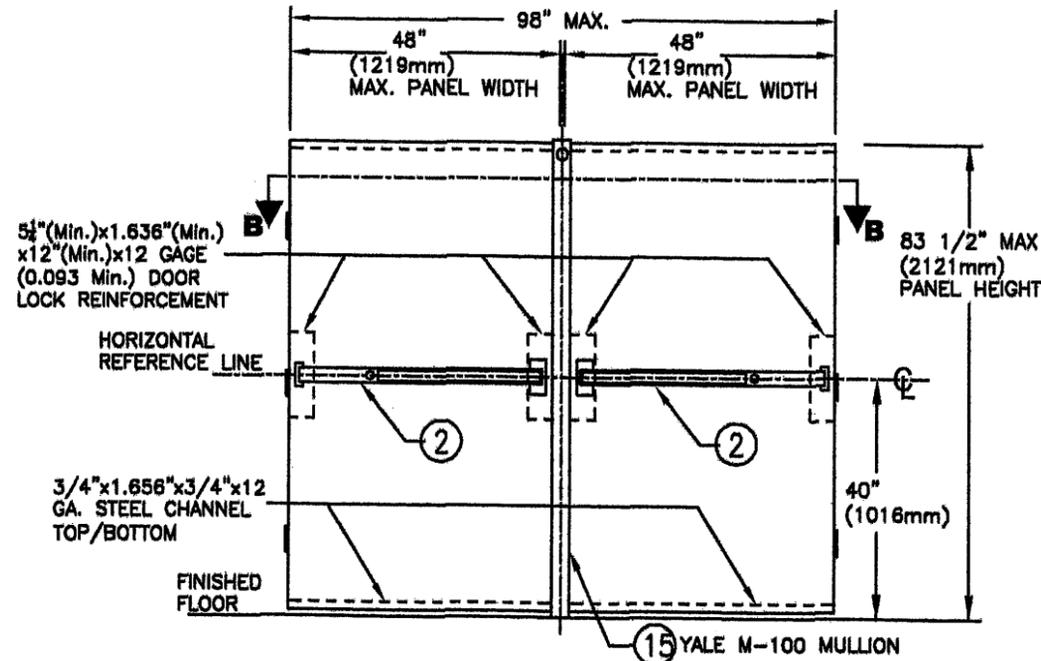
DETEX CORPORATION
302 DETEX DRIVE
NEW BRAUNFELS, TX 78130

DATE: 01/25/12 DRAWN BY: M.C.V./A.G.

SHEET TITLE:
VALUE SERIES SERIES RIM PANIC EXIT HARDWARE

DRAWING NUMBER: REVISION: SHEET
12-025 OLD 10-019 7 of 8

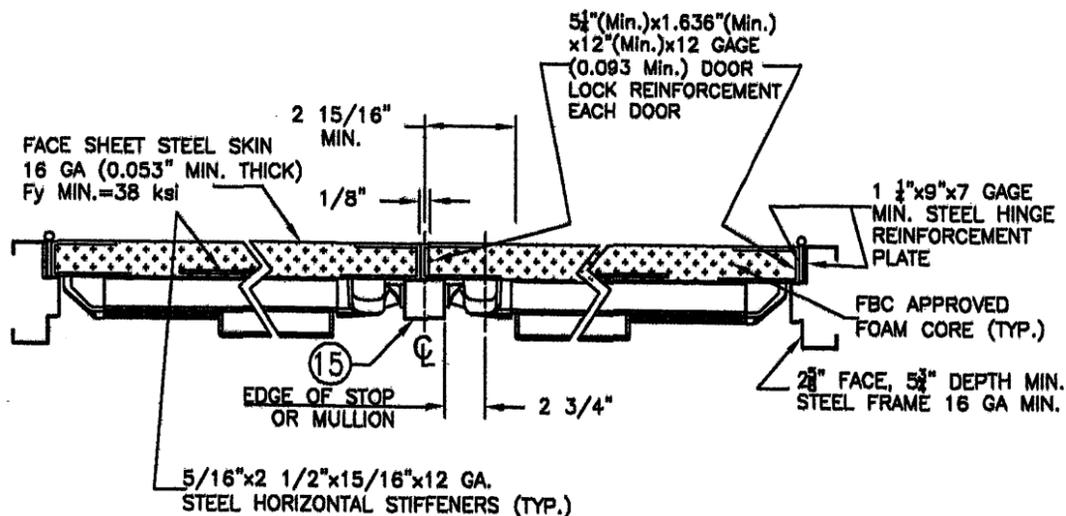
VALUE SERIES HV40 & FHV40* RIM DEVICE INSTALLATION FOR HURRICANE CODE. DOUBLE DOOR APPLICATION W/ YALE MULLION



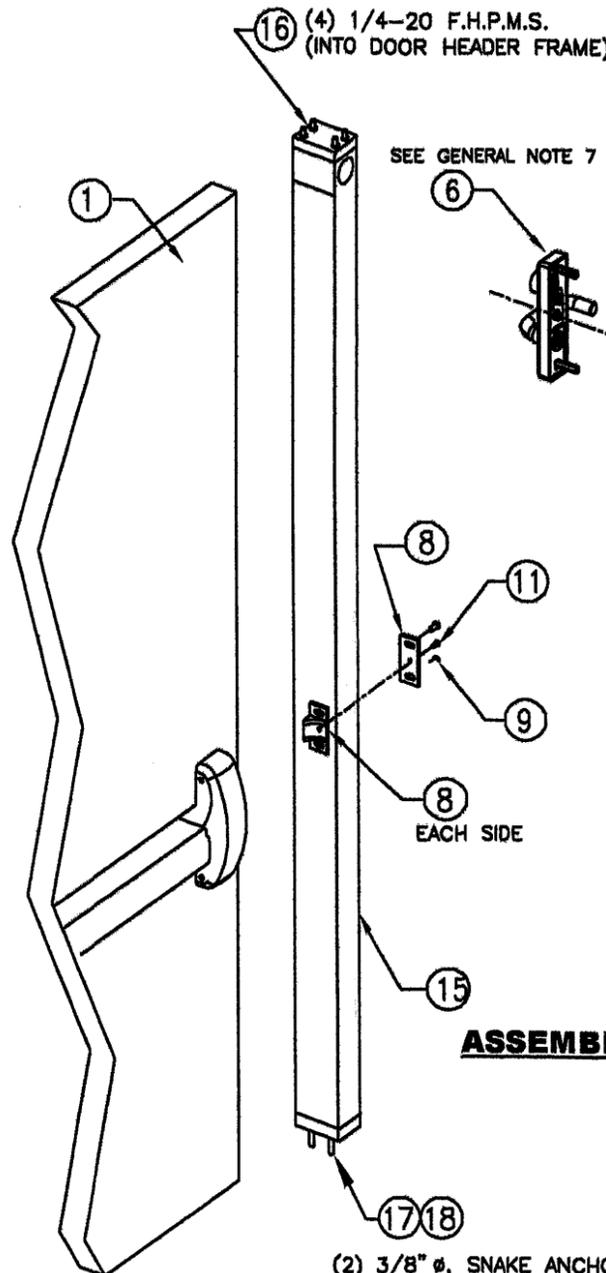
INTERIOR ELEVATION
N.T.S.

MAX. A.S.D. DESIGN PRESSURE RATING DOUBLE DOORS:

POSITIVE	+70 PSF.
NEGATIVE	-70 PSF.

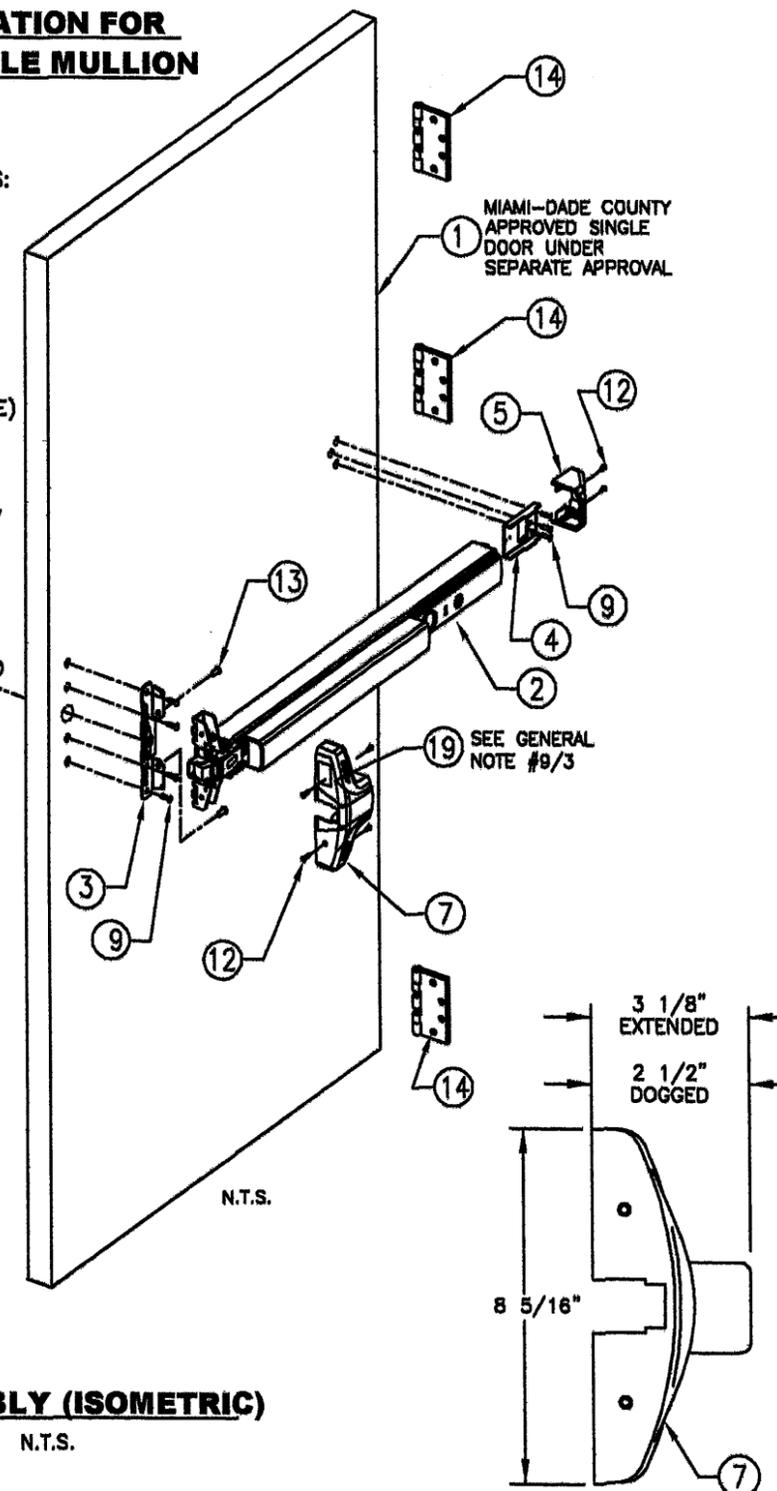


SECTION B-B
N.T.S.



ASSEMBLY (ISOMETRIC)
N.T.S.

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



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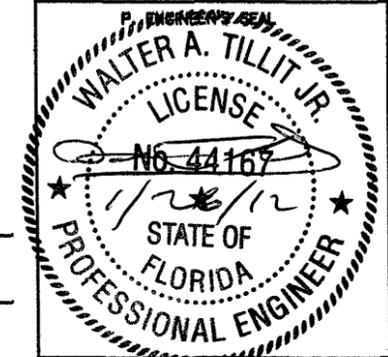
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MIAMI-DADE COUNTY

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Approval No. 12-0209.11
Expiration Date APR 07, 2015
By Isbag I. Chanda
Miami Dade Product Control

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