



**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.buildingcodeonline.com**

NOTICE OF ACCEPTANCE (NOA)

**Dorma Architectural Hardware
1003 West Broadway
Steeleville, IL 62288**

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 Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: Dorma's Series "HC 9300 Panic Exit devices / w HC 1300 mullion " & "HC9400 / HC9400 Surface Vertical Rod panic exit devices-Component Approval

APPROVAL DOCUMENT: Drawing No. **9000-003 DADE**, titled "HC 9300/HC 9400 Series", sheets 1 through 6 of 6, dated 08/10/2004 and last revised on 18-12-2007, prepared, signed and sealed by Allen N. Reeves, 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 Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitation: Min thickness of HC-1300 Steel mullion is = 5/16"

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 & replaces** NOA(s) # **05-0104.03** & # **03-0911.04** consists of this page 1 and evidence page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

**NOA No.: 07-0312.06
Expiration Date: May 19, 2011
Approval Date: January 31, 2008
Page 1**



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Dorma Architectural Hardware

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts and sections drawings.
2. Drawing No. **9000-003 DADE**, titled "HC 9300/HC 9400 Series", sheets 1 through 6 of 6, dated 08/10/2004 and last revised on 18-12-2007, prepared, signed and sealed by Allen N. Reeves, P.E.

B. TESTS (transferred from file #(s) 05-0104.03 & # 03-0911.04)

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 (Not Performed)
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of Dorma's series 9000 panic devices in the Quality Engineered Product's hollow metal doors, prepared by Certified Testing Laboratories, Inc., Test Report No. **CTLA-1276W**, dated November 17, 2004, signed and sealed by Ramesh Patel, P.E. (Note: This test report has been revised by addendum letters dated April 11, 2005 & August 03, 2005, issued by Certified Testing Lab, Inc, signed & sealed by Ramesh Patel, P.E.)

2. 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 (Not Performed)
 - 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 3603.2 (b) and TAS 202-94

Along with marked-up drawings and installation diagram of Dorma's series 9000 panic devices in the Benchmark HMF's hollow metal doors, prepared by Certified Testing Laboratories, Inc., Test Report No. **CTLA-1089W**, dated April 21, 2003, signed and sealed by Ramesh Patel, P.E. (Note: This test report has been revised by addendum letter dated November 10, 2003, issued by Certified Testing Lab, Inc, signed & sealed by Ramesh Patel, P.E.) &

Along with marked-up drawings and installation diagram of Dorma's series 9000 panic devices in the Dorma's hollow metal doors, prepared by Architectural Testing Laboratory, Inc., Test Report No. **ATI-0137581.01, ATI-0137581.02 and ATI-0137581.04**, dated March 15 & March 16, 2001, signed and sealed by Allen N. Reeves, P.E. (Note: This test report has been revised by Addendum letter dated 08 October, 2001 for test reports **ATI-0137581.01, 02, 03 and 04**, issued by Architectural Testing Laboratory, signed and sealed by Allen N. Reeves, P.E.)

C. CALCULATIONS:

1. Anchor verification calculation dated 10-17-2007, prepared, signed & sealed by Allen N. Reeves, P. E.
2. Mullion anchor verification calculation (FBC-2004), prepared by R. W. Building Consultants Inc., dated 07/01/05 and last revised on 03-28-06, signed and sealed by Wendell W. Haney, P.E. (transferred from file # 05-0104.03) *Ishaq I. Chanda*

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 07-0312.06
Expiration Date: May 19, 2011
Approval Date: January 31, 2008

Dorma Architectural Hardware

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS (transferred from file #(s) 05-0104.03 & # 03-0911.04)

1. Letter of conformance & "No financial interest" dated June 05, 2007, signed and sealed by Allen N. Reeves, P. E.
2. Letter of authorization issued by Quality Engineered Products, dated Nov. 29, 2004, allowing Dorma Architectural Hardware Inc to use test report CTLA-1276W to obtain component approval, signed by Andrew Bernstein.
3. Letter of conformance & "No financial interest" dated July 15, 2005, signed and sealed by Wendell W. Haney, P. E.
4. Statement letters of Lab compliance, part of test report, issued by Certified Testing Laboratories, signed and sealed by Ramesh Patel, P.E
5. Addendum letters dated April 11, 2005 & August 03, 2005 for test reports **CTLA-1276W**, issued by Certified Testing Laboratories, signed and sealed by Ramesh Patel, P.E.
6. Letter of acknowledgement dated April 24, 2006, issued by DORMA to publish updated catalog of HCF panic devices.

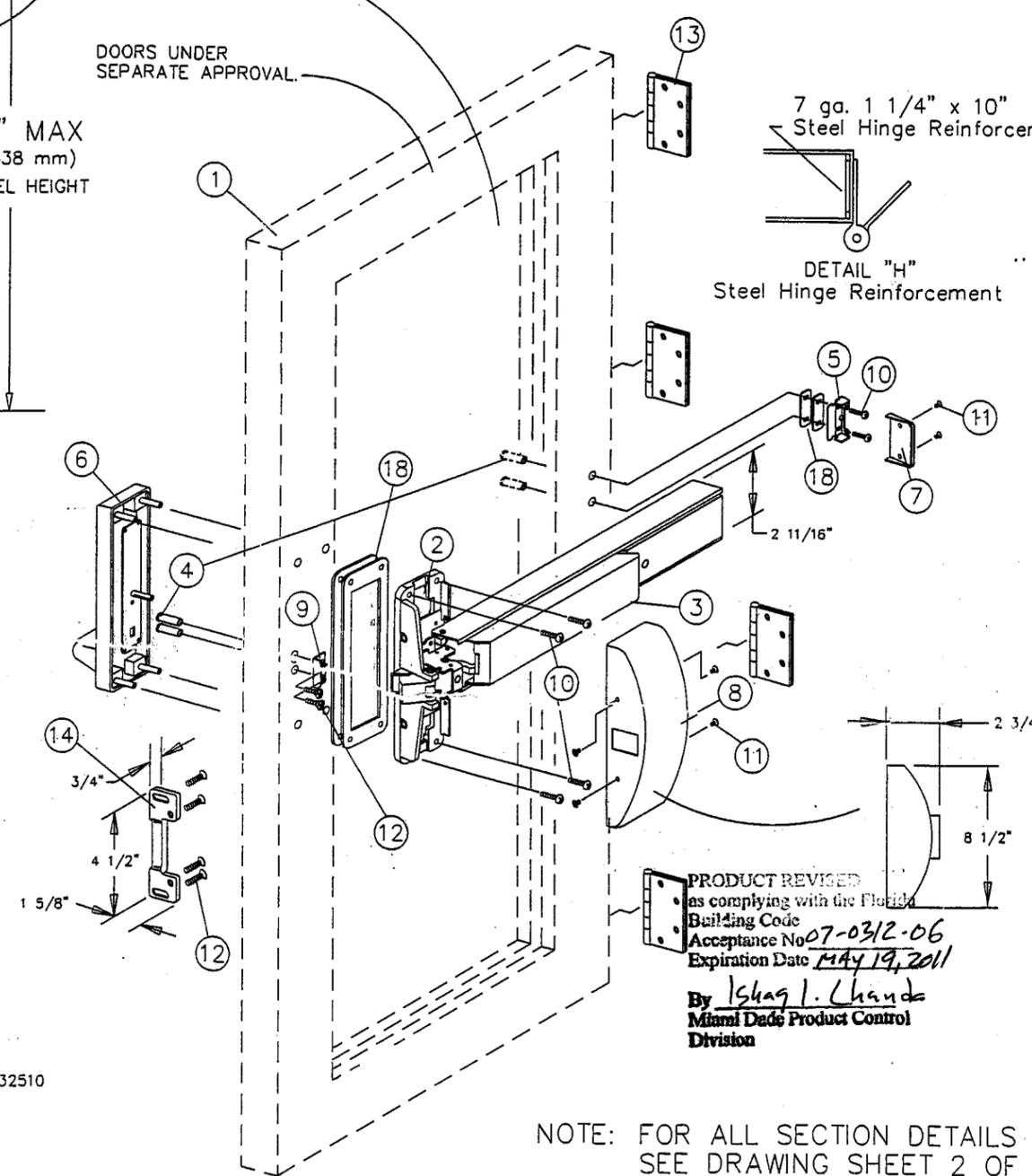
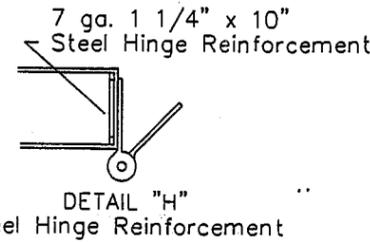
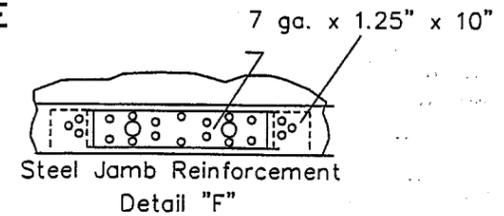
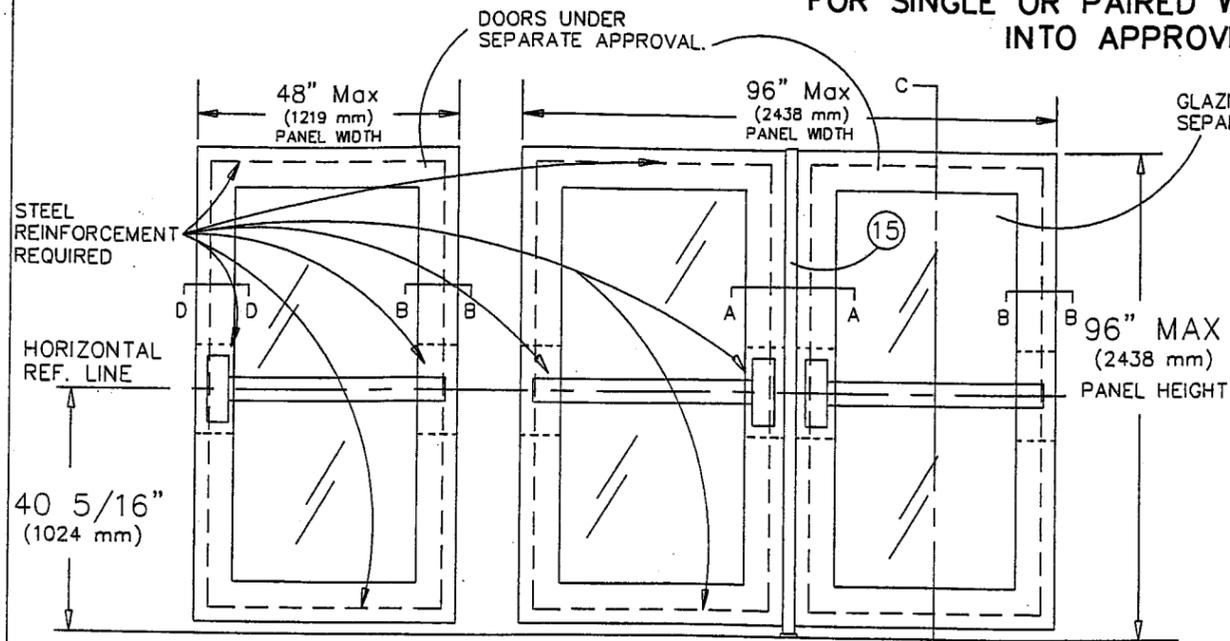
G. OTHER:

1. This NOA **revises & replaces** NOA(s) # **05-0104.03 & # 03-0911.04**, expiring May19, 2011.
2. Test report authorization by Quality Engineered Products Inc.
3. Letter of acknowledgement dated April 24, 2006 by DORMA for publication update.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 07-0312.06
Expiration Date: May 19, 2011
Approval Date: January 31, 2008

HC9300 SERIES RIM DEVICE INSTALLATION FOR HURRICANE CODE FOR SINGLE OR PAIRED WITH HC1300 MULLION APPLICATION INTO APPROVED GLAZED DOORS



Single HC9300 Rim Panic Device

Pair HC9300 Rim Panic Device With HC1300 Mullion

SERIES HC9300 RIM PANIC W/ HC1300 MULLION

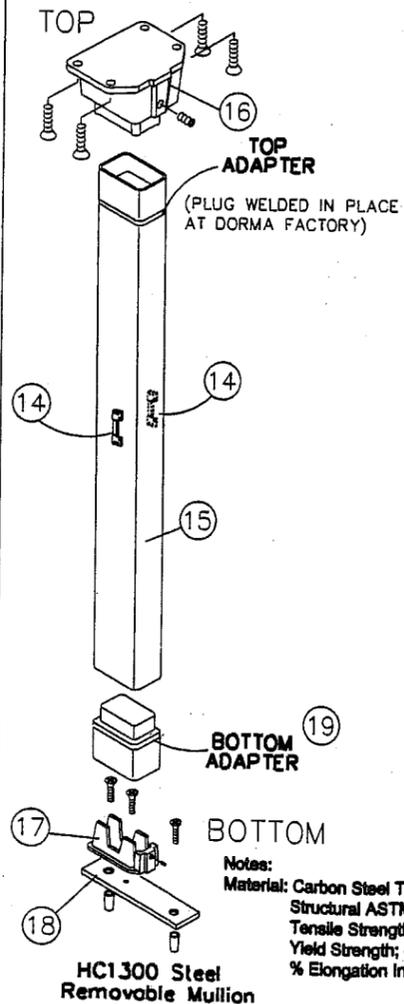
| BILL OF MATERIAL (Per Panel) | | | |
|------------------------------|-------------------------|--------------------|------|
| ITEM | DESCRIPTION | PART NUMBER | QTY. |
| 1 | APPROVED DOOR & FRAME | Under Separate NOA | 1 |
| 2 | HC9300 CHASSIS ASSY. | SEE NOTES | 1 |
| 3 | TOUCHBAR/RAIL ASSY. | | 1 |
| 4 | THRU BOLTS | | 4 |
| 5 | ENDCAP BRACKET | | 1 |
| 6 | OUTSIDE TRIM | | 1 |
| 7 | ENDCAP | | 1 |
| 8 | CHASSIS COVER | | 1 |
| 9 | STRIKE ANGLE | | 1 |
| 10 | 12-24 R.H.P.M.S. | | 8 |
| 11 | 8-32 F.H.P.M.S. | | 6 |
| 12 | 12-24 F.H.P.M.S. | | 6 |
| 13 | HINGE (STEEL) | Per NOA | 4 |
| 14 | #463 STRIKE | SEE NOTES | 1 |
| 15 | Removable Steel Mullion | HC1300 See Note | 1 |
| 16 | Mullion Top Fitting | | 1 |
| 17 | Mullion Bottom Fitting | | 1 |
| 18 | Mounting Plate | Steel | 1 |
| 19 | Bottom Adapter | Steel | 1 |

CHASSIS ASSEMBLY MATERIAL: INVESTMENT CAST 1020 STEEL,
BOLT 304 STAINLESS
STRIKE MATERIAL: 701 SANDCAST MALLEABLE IRON FERRATIC GRADE 32510

Series HC9300 Rim Panic Device for Single or Pairs When Used With HC1300 Mullion 96" x 96" Maximum Opening

| | |
|--|--------|
| Design Pressure Rating | |
| POSITIVE | 80 PSF |
| NEGATIVE | 80 PSF |
| IMPACT RATING | |
| LARGE AND SMALL MISSILE IMPACT RESISTANT | |

- Thru Bolt
- — R.H.P.M.S. — Round Head Phillips Machine Screw
- — F.H.P.M.S. — Flat Head Phillips Machine Screw
- — O.H.P.M.S. — Oval Head Phillips Machine Screw
- — F.H.P.U.C.M.S. — Flat Head Phillips Undercut Machine Screw
- — T.H.P.U.C.M.S. — Flat Head Phillips Undercut Machine Screw



Notes:
Material: Carbon Steel Tubing 2 x 3 x 5/16" Wall
Structural ASTM A500-Grade B
Tensile Strength; 58000 psi.
Yield Strength; 46000 psi.
% Elongation in 2 inches; 23

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 07-0312-06
Expiration Date MAY 19, 2011
By Ishag I. Chanda
Miami Dade Product Control Division

NOTE: FOR ALL SECTION DETAILS SEE DRAWING SHEET 2 OF 6 W/ HC1300 STEEL MULLION

DESCRIPTION: HC 9300 Rim Panic Device
16 GA. Full Glass Door(s)



DORMA DOOR CONTROLS INC
1003 W. BROADWAY
STEELEWILLE, ILLINOIS 62288

SCALE: NONE DRAWN BY: TA DATE: 8/10/04 CHKD BY: DATE:

GENERAL NOTES

LIMITATIONS:

- Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA. Lowest Design Pressure Rating shall apply.
 - Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
 - Steel reinforcement required as indicated on detail drawings.
 - Electrical devices are not part of this approval, and must be reviewed by the corresponding authority.
- Certification:
Underwriter's Laboratories - UL10C, UBC 7-2 (1997)
ANSI/BHMA A156.3 Grade 1 Exit Device
3/4" Minimum latchbolt throw
All reinforcements to be spot welded or better by door manufacturer.

Frame: Steel 16ga Min. (.060 min.)
Door: Steel 16ga Min. (.060 min.) Top & bottom rails- reinforced w/ full length 16 ga. (.060 min.) Steel Channel.

Lock Stile/ Hinge Stile reinforced with 12go steel box channel full length.
Strike/Hinge locations reinforced with 7ga steel plate.

All dimensions in accordance with manufacturer's standard installation instructions.
Exit device Model HC9300 Series Rim
Outside trim may be one of the following prefix designations:
NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims.
Thru bolts must be used on all installations as shown.
Interlocking strike angle must be installed on all installations as shown.
Quantities double for the opposite doors.

Allen N. Reeves, P.E.
Structural Engineer
Florida License No. 19354

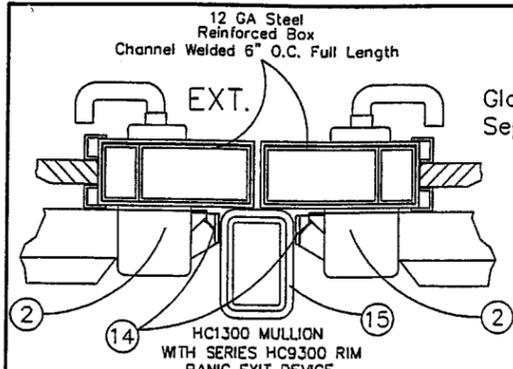
Allen N. Reeves
18 DECEMBER 2007

| | | | |
|------------|-----|----|----------|
| Rev. Print | 8 | TA | 12-03-07 |
| Rev. Print | 7 | TA | 7-26-07 |
| Rev. Print | 6 | TA | 7-6-07 |
| Rev. Print | 5 | TA | 6-11-07 |
| Rev. Print | 4 | EW | 3-27-06 |
| Rev. Print | 3 | EW | 2-2-06 |
| Rev. Print | 2 | TA | 7-6-05 |
| Rev. Print | 1 | TA | 5-6-05 |
| REVISIONS | NO. | BY | DATE |

DWG. 1 OF 6

DWG. NO. 9000-003 DADE

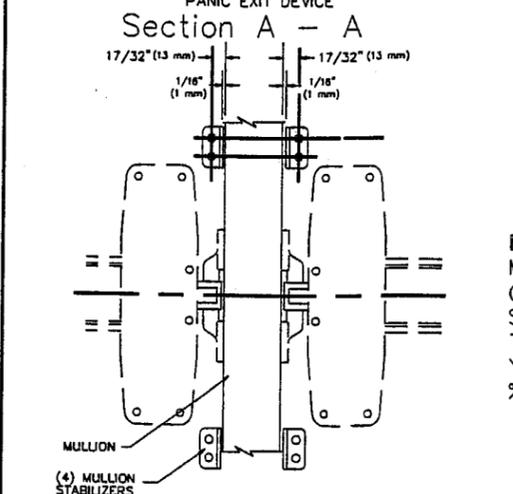
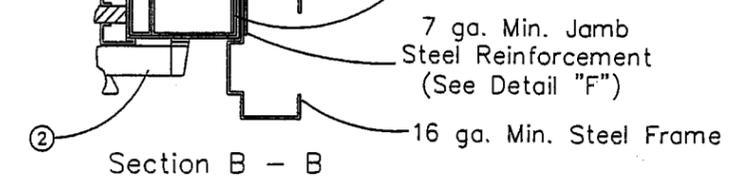
HC9300 SERIES RIM DEVICE INSTALLATION FOR HURRICANE CODE FOR SINGLE OR PAIRED WITH HC1300 MULLION APPLICATION INTO APPROVED GLAZED DOORS



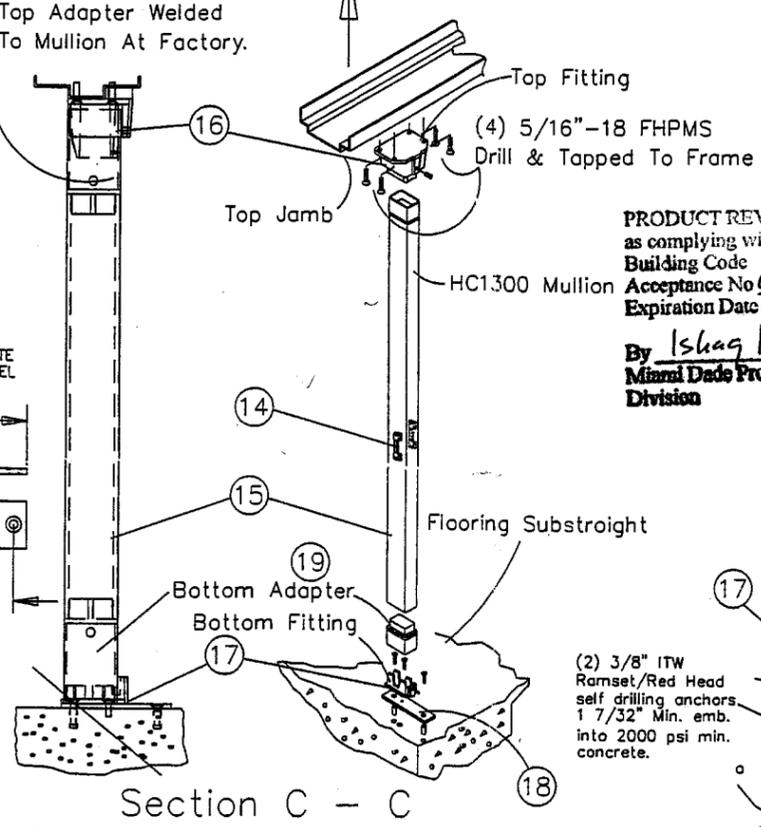
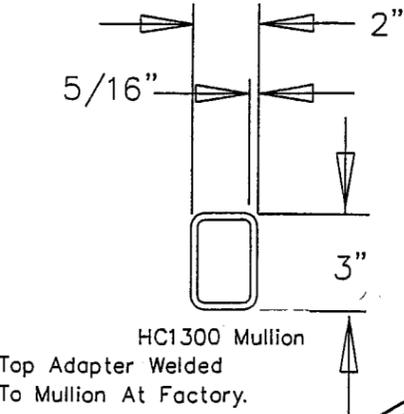
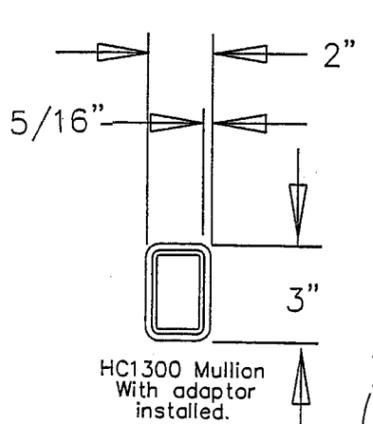
Glazed Doors Under Separate Approval

12 ga. Steel Box Channel Welded @ 6" o.c. Full Length. Doors Under Separate Approval

Door Skin 16 ga. Steel Min. EXT. 7 ga. Min. Hinge Reinforcement (See Detail "H")



Notes:
Material:
Carbon Steel Tubing 2 x 3 x 1/8 Wal
Structural ASTM A500-Grade B
Tensile Strength; 58000 psi.
Yield Strength; 46000 psi.
% Elongation In 2 inches; 23



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0312.06
Expiration Date MAY 19, 2011
By *Ishag I. Lhanch*
Miami Dade Product Control
Division

| | |
|--|--------|
| Series HC9300 Rim Panic Device for Single or Pairs When Used With HC1300 Mullion 96" x 96" Maximum Opening | |
| Design Pressure Rating | |
| POSITIVE | 80 PSF |
| NEGATIVE | 80 PSF |
| IMPACT RATING | |
| LARGE AND SMALL MISSILE IMPACT RESISTANT | |

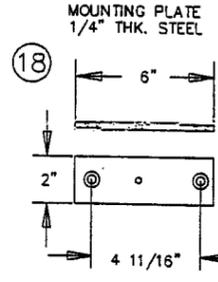
12 ga. Steel Box Channel Welded @ 6" o.c. Full Length.

Doors Under Separate Approval

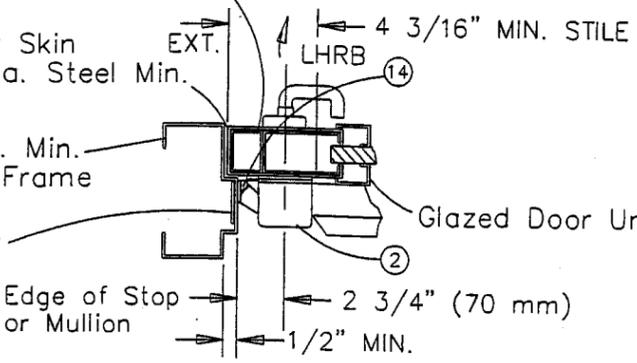
NOTE:
Frame and Jamb must be designed to withstand imposed load and reviewed by building official.

Door Skin 16 ga. Steel Min.

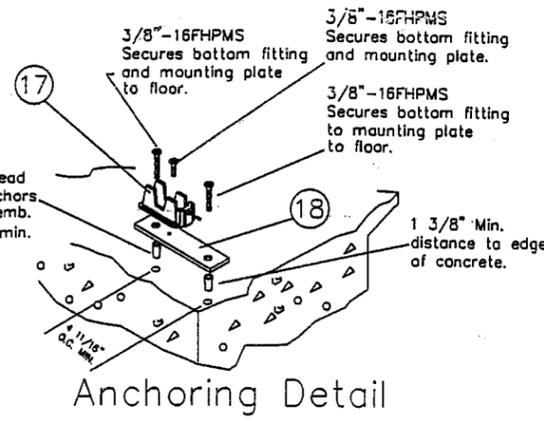
16 ga. Min. Steel Frame



1 1/2" x 9 7/8" 12 ga. Strike reinforcement



VERTICAL REF. LINE
Section D - D
SINGLE DOOR



GENERAL NOTES

- LIMITATIONS:**
- Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA. Lowest Design Pressure Rating shall apply.
 - Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
 - Steel reinforcement required as indicated on detail drawings.
 - Electrical devices are not part of this approval, and must be reviewed by the corresponding authority.

Certification:
Underwriter's Laboratories - UL10C, UBC 7-2 (1997)
ANSI/BHMA A156.3 Grade 1 Exit Device 3/4" Minimum latchbolt throw
All reinforcements to be spot welded or better by door manufacturer.
Frame: Steel 16ga Min. (.060 min.)
Door: Steel 16ga Min. (.060 min.) Top & bottom rails- reinforced w/ full length 16 ga. (.060 min.) Steel Channel.
Lock Stile/Hinge locations reinforced with 12ga steel box channel full length.
Strike/Hinge locations reinforced with 7ga Steel plate.

All dimensions in accordance with manufacturer's standard installation instructions.
Exit device Model HC9300 Series Rim Outside trim may be one of the following prefix designations:
NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims.
Thru bolts must be used on all installations as shown.
Interlocking strike angle must be installed on all installations as shown.
Quantities double for the opposite doors.

Allen N. Reeves, P.E.
Structural Engineer
Florida License No. 19354

Allen N. Reeves
18 DECEMBER 2007

DESCRIPTION: HC 9300 Rim Panic Device
16 GA. Full Glass Door(s)



| Rev. | Print | NO. | BY | DATE |
|------|-------|----------|----|------|
| 8 | TA | 12-12-07 | | |
| 7 | TA | 7-26-07 | | |
| 6 | TA | 7-6-07 | | |
| 5 | TA | 6-11-07 | | |
| 4 | EW | 3-27-06 | | |
| 3 | EW | 2-2-06 | | |
| 2 | TA | 7-6-05 | | |
| 1 | TA | 5-6-05 | | |

SCALE: NONE DRAWN BY: TA DATE: 8/10/04

DWG. 2 OF 6
DWG. NO. 9000-003 DADE

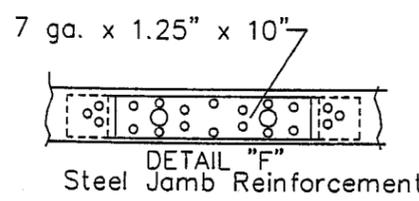
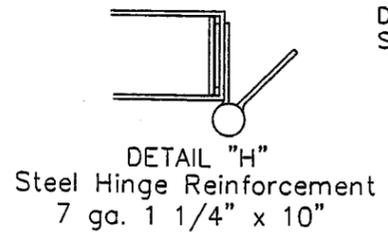
SERIES HC9400 SURFACE VERTICAL ROD PANIC DEVICE

BILL OF MATERIAL (Per Panel)

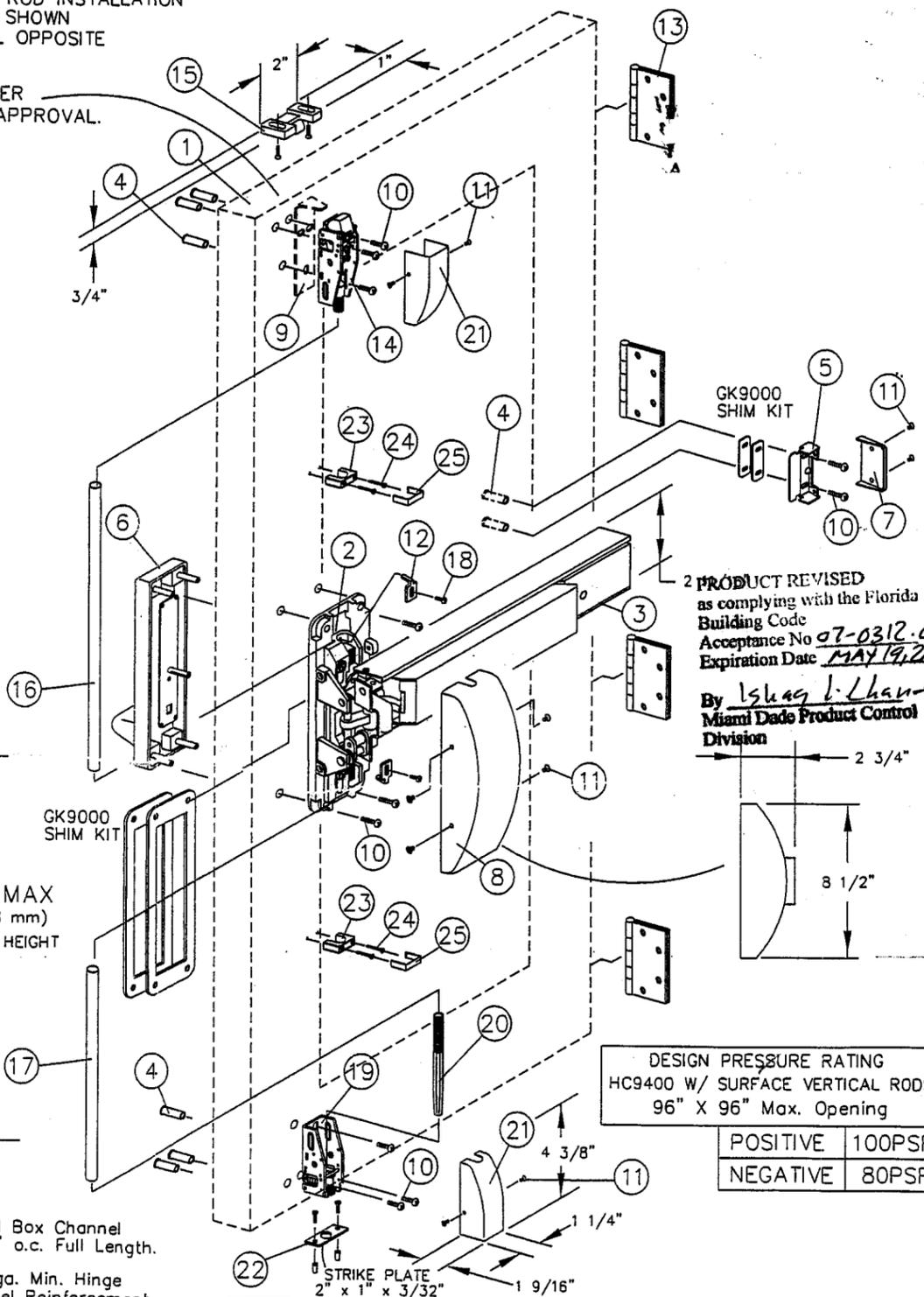
| ITEM | DESCRIPTION | PART NUMBER | QTY. |
|------|-------------------------|-----------------------------|------|
| 1 | APPROVED DOOR & FRAME | Under Separate NOA | 1 |
| 2 | HC9400 CHASSIS ASSY. | ALUMINUM | 1 |
| 3 | TOUCHBAR/RAIL ASSY. | | 1 |
| 4 | THRU BOLTS | | 8 |
| 5 | ENDCAP BRACKET | | 1 |
| 6 | OUTSIDE TRIM | | 1 |
| 7 | ENDCAP | | 1 |
| 8 | CHASSIS COVER | | 1 |
| 9 | STRIKE ANGLE | STAINLESS STEEL | 1 |
| 10 | 12-24 R.H.P.M.S. | | 12 |
| 11 | 8-32 F.H.P.M.S. | | 10 |
| 12 | ROD RETAINING PLATE | | 2 |
| 13 | HINGES | PER NOA | 4 |
| 14 | TOP LATCH ASSEMBLY | STEEL | 1 |
| 15 | #426 TOP STRIKE PACK | SANDCAST GRAY IRON CLASS 20 | 1 |
| 16 | TOP CONNECTING ROD | 1/2" O.D. STAINLESS TUBING | 1 |
| 17 | BOTTOM CONNECTING ROD | 1/2" O.D. STAINLESS TUBING | 1 |
| 18 | 8-32 x 3/4" R.H.P.M.S. | | 2 |
| 19 | BOTTOM LATCH BRACKET | | 1 |
| 20 | SLIDE BOLT ASSEMBLY | STEEL | 1 |
| 21 | LATCH COVER | | 2 |
| 22 | #340 BOTTOM STRIKE PACK | STEEL | 8 |
| 23 | ROD GUIDE | | 2 |
| 24 | #6 x 1 1/4" F.H.P.T.S. | | 4 |
| 25 | ROD GUIDE COVER | | 2 |

HC9400 OR HC9400/HC9400 SERIES SURFACE VERTICAL ROD APPLICATION FOR SINGLE OR PAIRS FOR HURRICANE CODE

TYPICAL SURFACE VERTICAL ROD INSTALLATION
LEFT HAND REVERSE BEVEL SHOWN
RIGHT HAND REVERSE BEVEL OPPOSITE



- Thru Bolt
- R.H.P.M.S. — Round Head Phillips Machine Screw
- F.H.P.M.S. — Flat Head Phillips Machine Screw
- O.H.P.M.S. — Oval Head Phillips Machine Screw
- F.H.P.U.C.M.S. — Flat Head Phillips Undercut Machine Screw
- T.H.P.U.C.M.S. — Flat Head Phillips Undercut Machine Screw

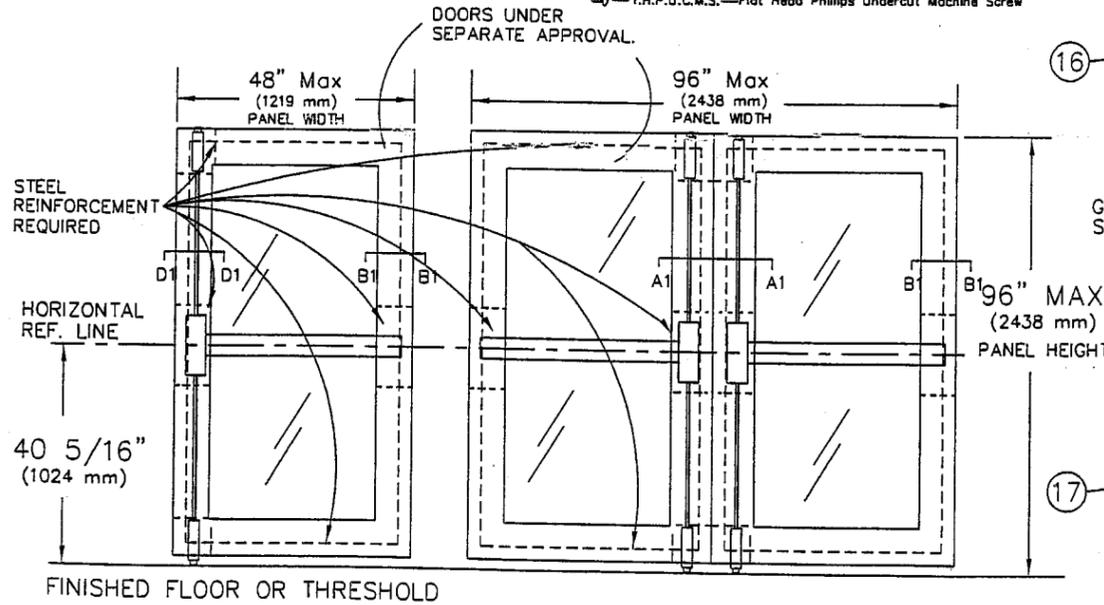


2 PRODUCT REVISED as complying with the Florida Building Code Acceptance No 07-0312-06 Expiration Date MAY 19, 2011 By Iskhag L. Lhanda Miami Dade Product Control Division

| | |
|---------------------------------|--------|
| DESIGN PRESSURE RATING | |
| HC9400 W/ SURFACE VERTICAL RODS | |
| 96" X 96" Max. Opening | |
| POSITIVE | 100PSF |
| NEGATIVE | 80PSF |

GENERAL NOTES

- LIMITATIONS:**
- Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA. Lowest Design Pressure Rating shall apply.
 - Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
 - Steel reinforcement required as indicated on detail drawings.
 - Electrical devices are not part of this approval, and must be reviewed by the corresponding authority. Certification: Underwriter's Laboratories - UL10C, UBC 7-2 (1997) ANSI/BHMA A156.3 Grade 1 Exit Device 3/4" Minimum latchbolt throw top & bottom. All reinforcements to be spot welded or better by door manufacturer. Frame: Steel 16ga Min. (.060 min.) Door: Steel 16ga Min. (.060 min.) Top & bottom rails- reinforced w/ full length 16 ga. (.060 min.) Steel Channel. Lock Stile/ Hinge Stile reinforced with 12ga steel box channel full length. Strike/Hinge locations reinforced with 7ga steel plate. All dimensions in accordance with manufacturer's standard installation instructions. Exit device Model HC9400 Series Surface Vertical Rod Exit Device. Outside trim may be one of the following prefix designations: NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims. Thru bolts must be used on all installations as shown. Interlocking strike angle must be installed on all installations as shown. Quantities double for the opposite doors.

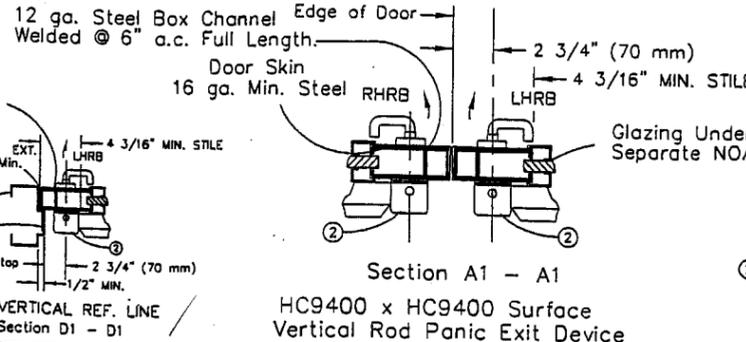


NOTE: Frame and Jamba must be designed to withstand imposed load and reviewed by building official.

12 ga. Steel Box Channel Welded @ 6" o.c. Full Length.

16 ga. Min. Steel Frame

1 1/2" x 9 7/8" 12 ga. Strike reinforcement



Door Skin Steel 16 ga. Min.
12 ga. Steel Box Channel Welded @ 6" o.c. Full Length.
7 ga. Min. Hinge Steel Reinforcement (See Detail "H")
7 ga. Min. Jamb Steel Reinforcement (See Detail "F")
16 ga. Min. Steel Frame

DESCRIPTION: HC9400 Surface Vertical Rod Panic Device
16 GA. Full Glass Door(s)



DORMA DOOR CONTROLS INC
1003 W. BROADWAY
STEELEVILLE, ILLINOIS 62288

SCALE: NONE DRAWN BY: TA DATE: 8/10/04 CHKD BY: DATE:

Allen N. Reeves, P.E.
Structural Engineer
Florida License No. 19354

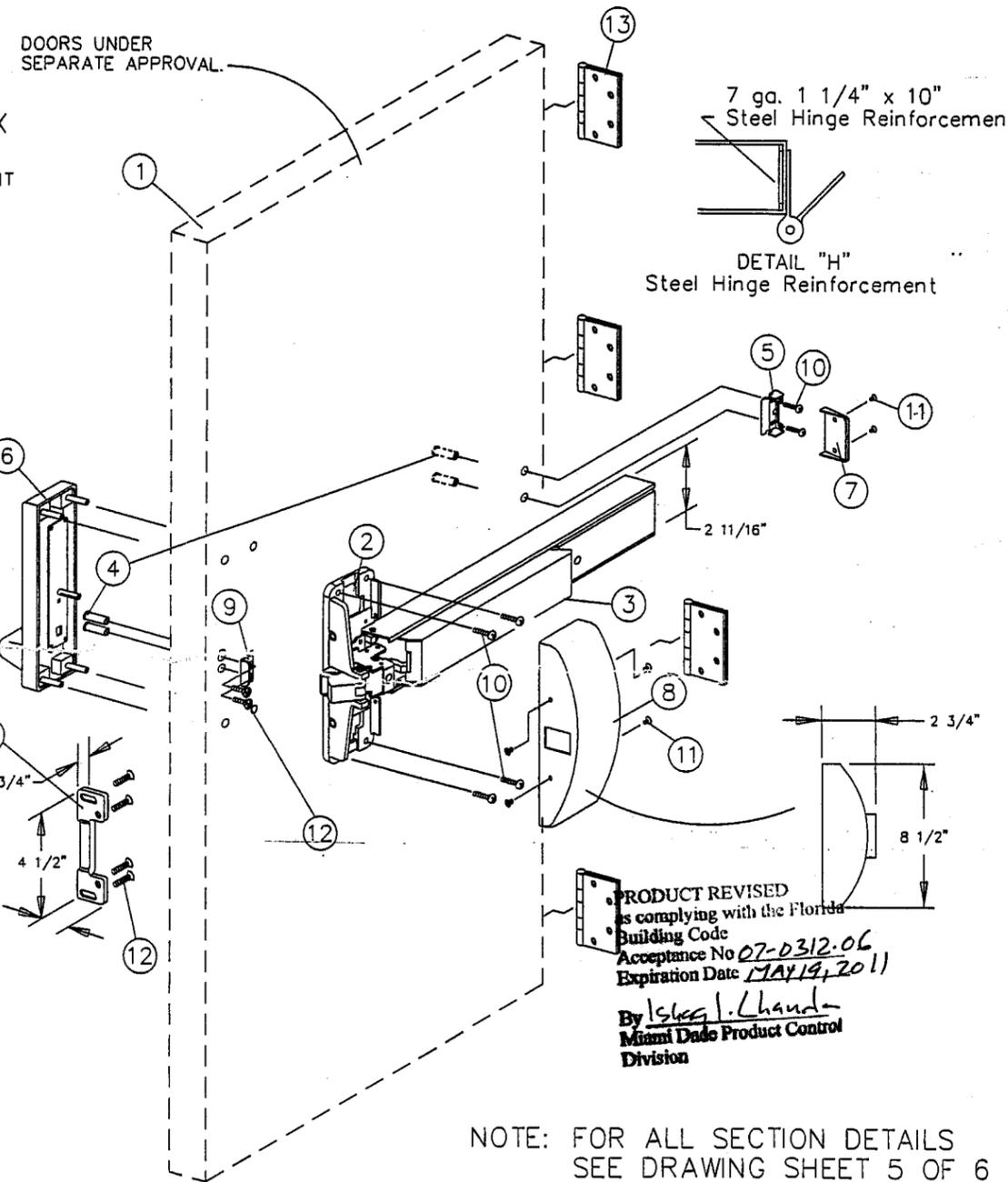
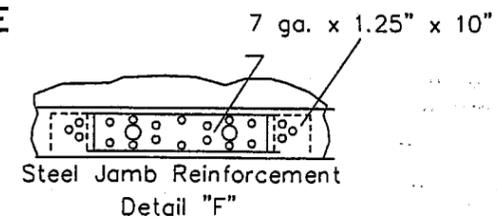
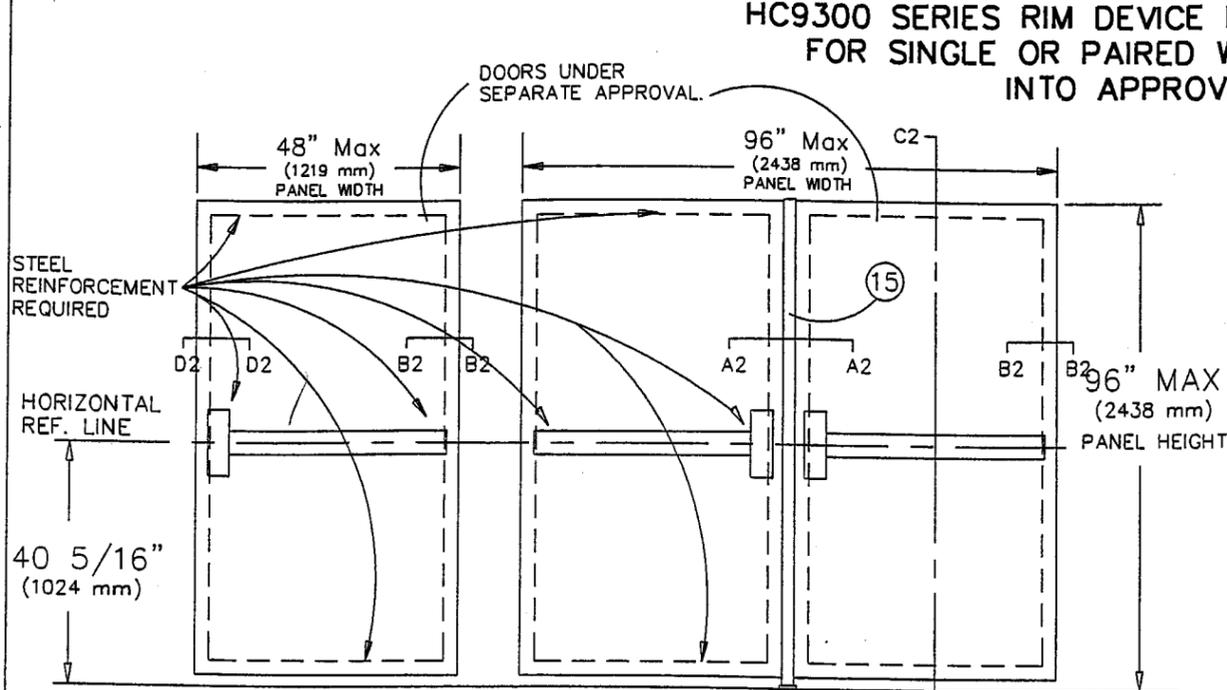
Allen N. Reeves
18 DECEMBER 2007

| Rev. Print | NO. | BY | DATE |
|------------|-----|----|----------|
| 8 | TA | | 12-12-07 |
| 7 | TA | | 7-26-07 |
| 6 | TA | | 7-6-07 |
| 5 | TA | | 6-11-07 |
| 4 | EW | | 3-27-06 |
| 3 | EW | | 2-2-06 |
| 2 | TA | | 7-6-05 |
| 1 | TA | | 5-6-05 |

DWG. 3 OF 6

DWG. NO. 9000-003 DADE

HC9300 SERIES RIM DEVICE INSTALLATION FOR HURRICANE CODE FOR SINGLE OR PAIRED WITH HC1300 MULLION APPLICATION INTO APPROVED FLUSH DOORS



GENERAL NOTES

LIMITATIONS:

- Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA. Lowest Design Pressure Rating shall apply.
- Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
- Steel reinforcement required as indicated on detail drawings.
- Electrical devices are not part of this approval, and must be reviewed by the corresponding authority.

Certification:
Underwriter's Laboratories - UL10C, UBC 7-2 (1997)
ANSI/BHMA A156.3 Grade 1 Exit Device
3/4" Minimum latchbolt throw
All reinforcements to be spot welded or better by door manufacturer.

Frame: Steel 16ga Min. (.060 min.)
Door: Steel 16ga Min. (.060 min.) Top & bottom rails- reinforced w/ full length 16 ga. (.060 min.) Steel Channel.
Lock Stile/Hinge locations reinforced with 12ga steel box channel full length.
Strike/Hinge locations reinforced with 7ga Steel plate.

All dimensions in accordance with manufacturer's standard installation instructions.
Exit device Model HC9300 Series Rim
Outside trim may be one of the following prefix designations:
NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims.
Thru bolts must be used on all installations as shown.
Interlocking strike angle must be installed on all installations as shown.
Quantities double for the opposite doors.

Single HC9300 Rim Panic Device

Pair HC9300 Rim Panic Device With HC1300 Mullion

SERIES HC9300 RIM PANIC W/ HC1300 MULLION

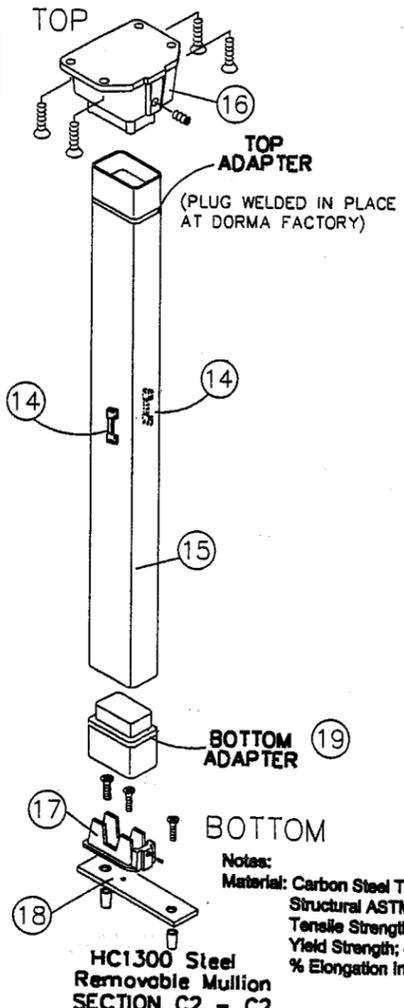
| BILL OF MATERIAL (Per Panel) | | | |
|------------------------------|-------------------------|--------------------|------|
| ITEM | DESCRIPTION | PART NUMBER | QTY. |
| 1 | APPROVED DOOR & FRAME | Under Separate NOA | 1 |
| 2 | HC9300 CHASSIS ASSY. | SEE NOTES | 1 |
| 3 | TOUCHBAR/RAIL ASSY. | | 1 |
| 4 | THRU BOLTS | | 4 |
| 5 | ENDCAP BRACKET | | 1 |
| 6 | OUTSIDE TRIM | | 1 |
| 7 | ENDCAP | | 1 |
| 8 | CHASSIS COVER | | 1 |
| 9 | STRIKE ANGLE | | 1 |
| 10 | 12-24 R.H.P.M.S. | | 8 |
| 11 | 8-32 F.H.P.M.S. | | 6 |
| 12 | 12-24 F.H.P.M.S. | | 6 |
| 13 | HINGE (STEEL) | Per NOA | 4 |
| 14 | #463 STRIKE | SEE NOTES | 1 |
| 15 | Removable Steel Mullion | HC1300 See Note | 1 |
| 16 | Mullion Top Fitting | | 1 |
| 17 | Mullion Bottom Fitting | | 1 |
| 18 | Mounting Plate | Steel | 1 |
| 19 | Bottom Adaptor | Steel | 1 |

CHASSIS ASSEMBLY MATERIAL: INVESTMENT CAST 1020 STEEL,
BOLT 304 STAINLESS
STRIKE MATERIAL: 701 SANDCAST MALLEABLE IRON FERRATIC GRADE 32510

Series HC9300 Rim Panic Device for Single or Pairs When Used With HC1300 Mullion 96" x 96" Maximum Opening

| | |
|--|--------|
| Design Pressure Rating | |
| POSITIVE | 80 PSF |
| NEGATIVE | 80 PSF |
| IMPACT RATING | |
| LARGE AND SMALL MISSILE IMPACT RESISTANT | |

- Thru Bolt
- R.H.P.M.S. — Round Head Phillips Machine Screw
- F.H.P.M.S. — Flat Head Phillips Machine Screw
- O.H.P.M.S. — Oval Head Phillips Machine Screw
- F.H.P.U.C.M.S. — Flat Head Phillips Undercut Machine Screw
- T.H.P.U.C.M.S. — Flat Head Phillips Undercut Machine Screw



PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 07-0312-06
Expiration Date MAY 19, 2011
By Isabel L. Landa
Miami Dade Product Control Division

NOTE: FOR ALL SECTION DETAILS SEE DRAWING SHEET 5 OF 6 W/ HC1300 STEEL MULLION

DESCRIPTION: HC9300 Rim Panic Device
16 ga. Frame and 16 ga. Door



SCALE: NONE DRAWN BY: TA DATE: 12-15-06

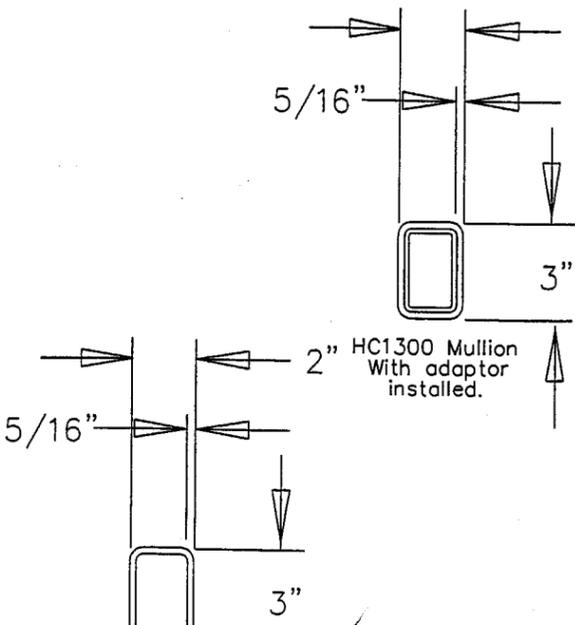
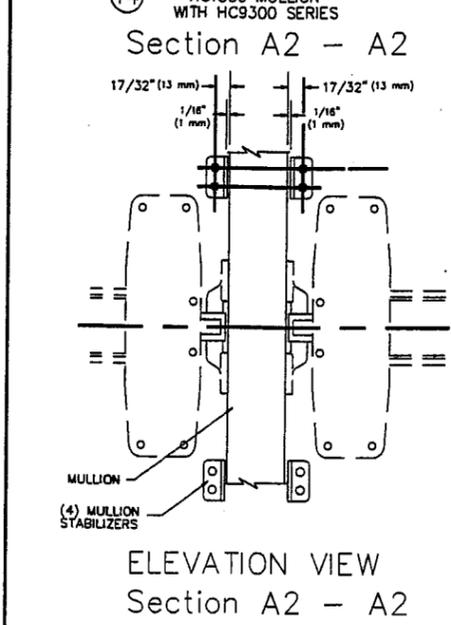
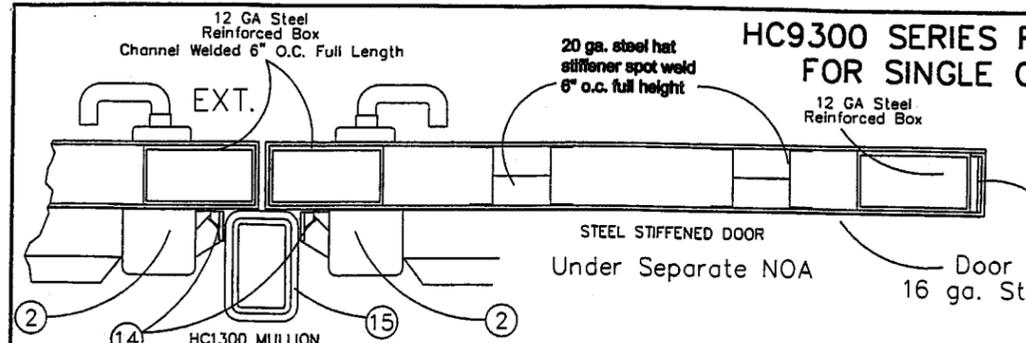
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|---------------|-----|----|----------|
| Rev. Print | 5 | TA | 12-12-07 |
| Rev. Print | 4 | TA | 7-27-07 |
| Rev. Print | 3 | TA | 7-5-07 |
| Rev. Print | 2 | TA | 6-11-07 |
| Correct Print | 1 | TA | 6-3-07 |
| REVISIONS | NO. | BY | DATE |

DWG. 4 OF 6
DWG. NO. 9000-003 DADE

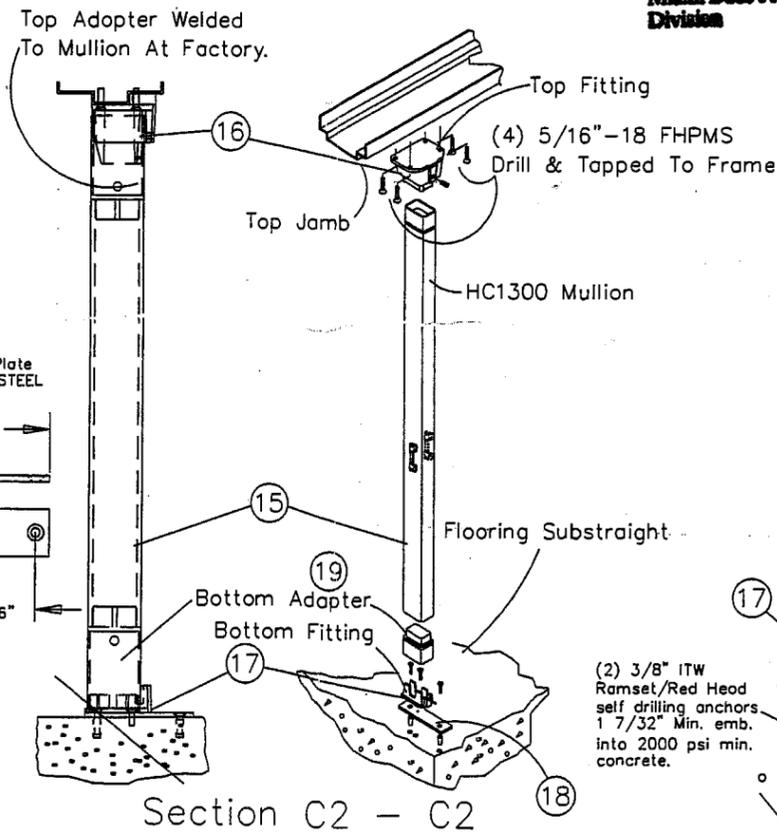
Allen N. Reeves, P.E.
Structural Engineer
Florida License No. 19364

Allen N. Reeves
18 DECEMBER 2007

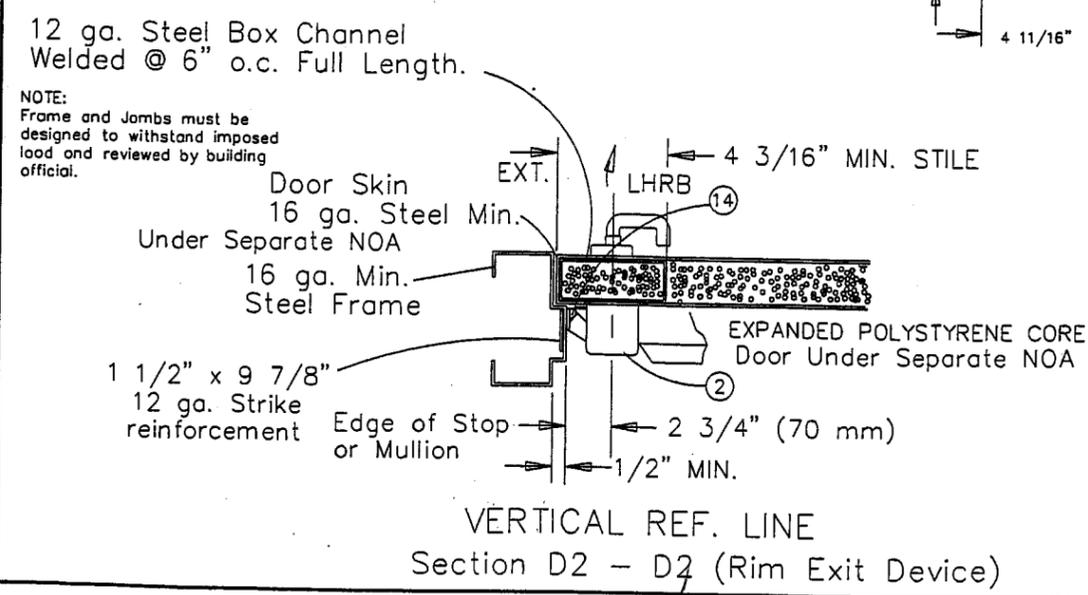
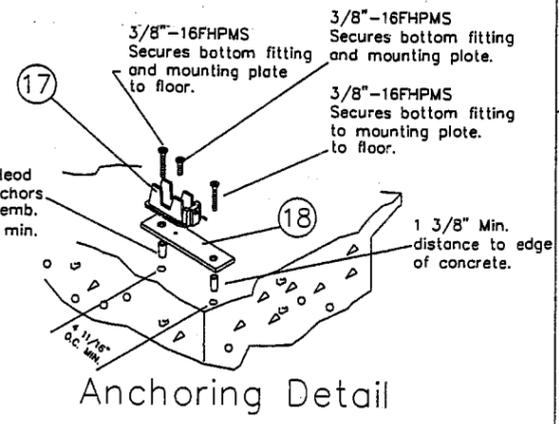
HC9300 SERIES RIM DEVICE INSTALLATION FOR HURRICANE CODE FOR SINGLE OR PAIRED WITH HC1300 MULLION APPLICATION INTO APPROVED FLUSH DOORS



Notes:
Material: Carbon Steel Tubing 2 x 3 x 1/4 Wall Structural ASTM A500-Grade B
Tensile Strength; 58000 psi.
Yield Strength; 46000 psi.
% Elongation In 2 Inches; 23



| | |
|--|--------|
| Series HC9300 Rim Panic Device for Single or Pairs When Used With HC1300 Mullion 96" x 96" Maximum Opening | |
| Design Pressure Rating | |
| POSITIVE | 80 PSF |
| NEGATIVE | 80 PSF |
| IMPACT RATING | |
| LARGE AND SMALL MISSILE IMPACT RESISTANT | |



NOTE:
 Frame and Jombs must be designed to withstand imposed load and reviewed by building official.

| | |
|---------------------------------------|-----------------------------|
| DESCRIPTION: HC 9300 Rim Panic Device | 16 ga. steel door and frame |
| SCALE: NONE | DRAWN BY: TA |
| DATE: 12/15/06 | CHKD BY: |
| DATE: | |



GENERAL NOTES

LIMITATIONS:

- Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA. Lowest Design Pressure Rating shall apply.
- Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
- Steel reinforcement required as indicated on detail drawings.
- Electrical devices are not part of this approval, and must be reviewed by the corresponding authority.

Certification:
 Underwriter's Laboratories - UL10C, UBC 7-2 (1997)
 ANSI/BHMA A156.3 Grade 1 Exit Device
 3/4" Minimum latchbolt throw
 All reinforcements to be spot welded or better by door manufacturer.

Frame: Steel 16ga Min. (.060 min.)
Door: Steel 16ga Min. (.060 min.) Top & bottom rails- reinforced w/ full length 16 ga. (.060 min.) Steel Channel.
Lock Stile/Hinge locations reinforced with 12go steel box channel full length.
Strike/Hinge locations reinforced with 7go Steel plate.

All dimensions in accordance with manufacturer's standard installation instructions.
 Exit device Model HC9300 Series Rim Outside trim may be one of the following prefix designations:
 NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims.
 Thru bolts must be used on all installations as shown.
 Interlocking strike angle must be installed on all installations as shown.
 Quantities double for the opposite doors.

Allen N. Reeves, P.E.
 Structural Engineer
 Florida License No. 19354

Allen N. Reeves
 18 DECEMBER 2007

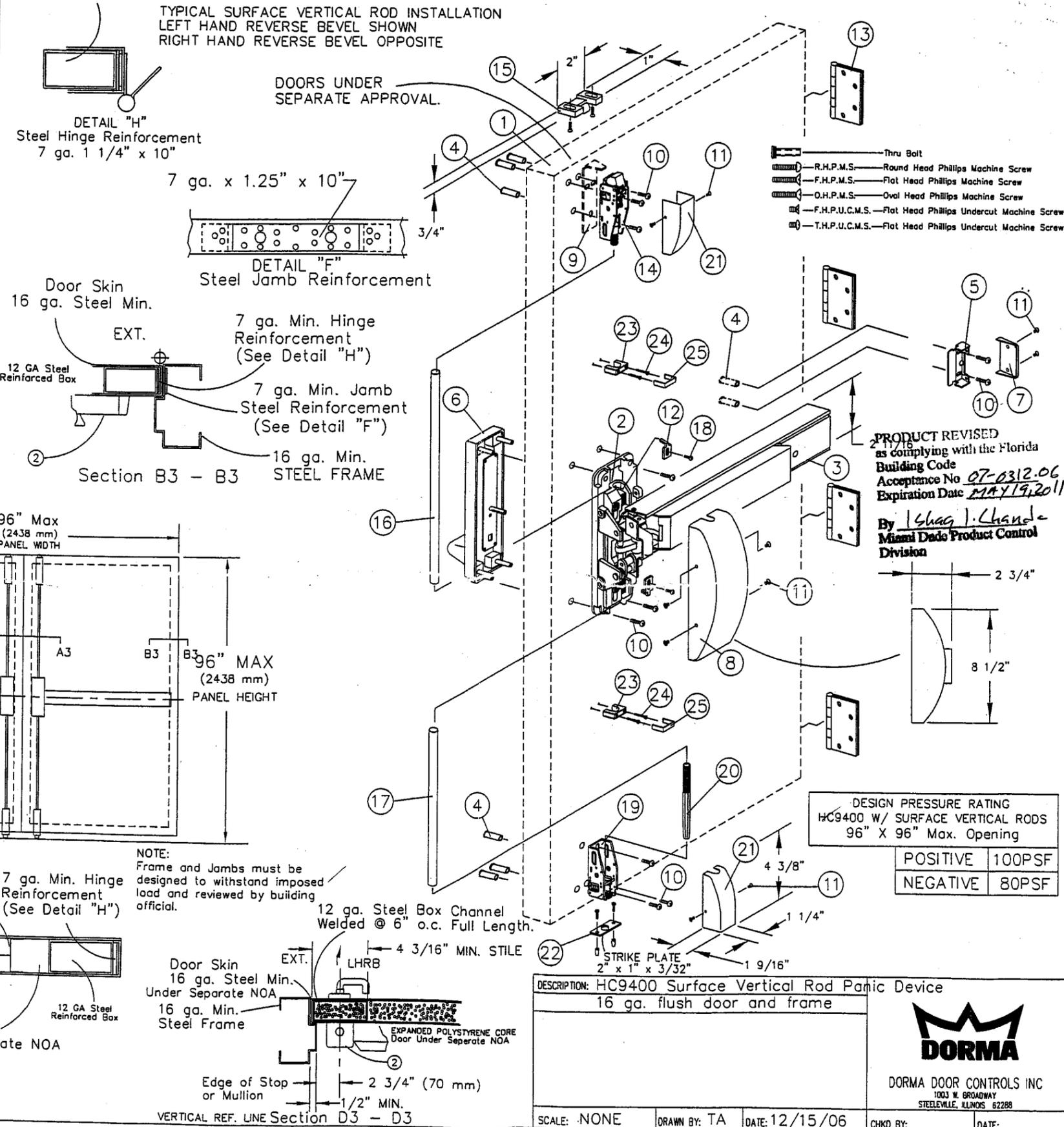
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|--------------|---------------|----|----------|
| Update Print | 4 | TA | 12/12/07 |
| Update Print | 3 | TA | 7/26/07 |
| Update Print | 2 | TA | 7/5/07 |
| Update Print | 1 | TA | 6-11-07 |
| REVISIONS | NO. | BY | DATE |
| DWG. 5 OF 6 | | | |
| DWG. NO. | 9000-003 DADE | | |

SERIES HC9400 SURFACE VERTICAL ROD PANIC DEVICE

BILL OF MATERIAL (Per Panel)

| ITEM | DESCRIPTION | PART NUMBER | QTY. |
|------|-------------------------|-----------------------------|------|
| 1 | APPROVED DOOR & FRAME | Under Separate NOA | 1 |
| 2 | HC9400 CHASSIS ASSY. | ALUMINUM | 1 |
| 3 | TOUCHBAR/RAIL ASSY. | | 1 |
| 4 | THRU BOLTS | | 8 |
| 5 | ENDCAP BRACKET | | 1 |
| 6 | OUTSIDE TRIM | | 1 |
| 7 | ENDCAP | | 1 |
| 8 | CHASSIS COVER | | 1 |
| 9 | STRIKE ANGLE | STAINLESS STEEL | 1 |
| 10 | 12-24 R.H.P.M.S. | | 12 |
| 11 | 8-32 F.H.P.M.S. | | 10 |
| 12 | ROD RETAINING PLATE | | 2 |
| 13 | HINGES | PER NOA | 4 |
| 14 | TOP LATCH ASSEMBLY | STEEL | 1 |
| 15 | #426 TOP STRIKE PACK | SANDCAST GRAY IRON CLASS 20 | 1 |
| 16 | TOP CONNECTING ROD | 1/2" O.D. STAINLESS TUBING | 1 |
| 17 | BOTTOM CONNECTING ROD | 1/2" O.D. STAINLESS TUBING | 1 |
| 18 | 8-32 x 3/4" R.H.P.M.S. | | 2 |
| 19 | BOTTOM LATCH BRACKET | | 1 |
| 20 | SLIDE BOLT ASSEMBLY | STEEL | 1 |
| 21 | LATCH COVER | | 2 |
| 22 | #340 BOTTOM STRIKE PACK | STEEL | 8 |
| 23 | ROD GUIDE | | 2 |
| 24 | #6 x 1 1/4" F.H.P.T.S. | | 4 |
| 25 | ROD GUIDE COVER | | 2 |

HC9400 OR HC9400/HC9400 SERIES SURFACE VERTICAL ROD APPLICATION FOR SINGLE OR PAIRS FOR HURRICANE CODE



GENERAL NOTES

LIMITATIONS:

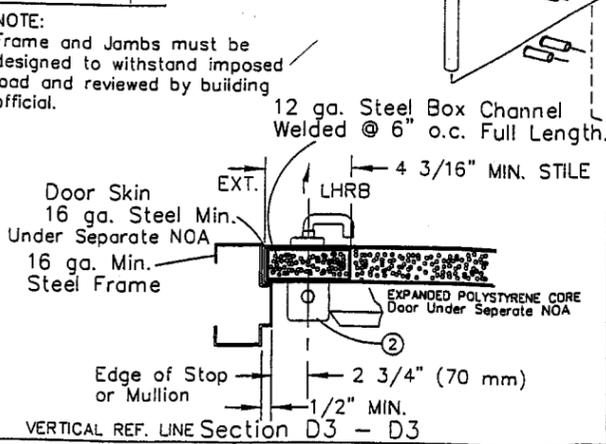
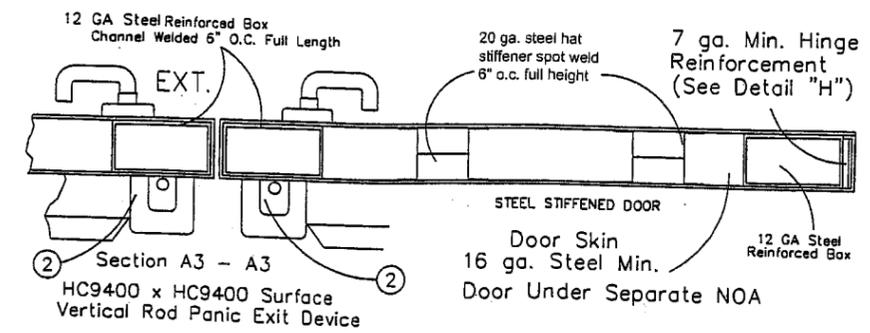
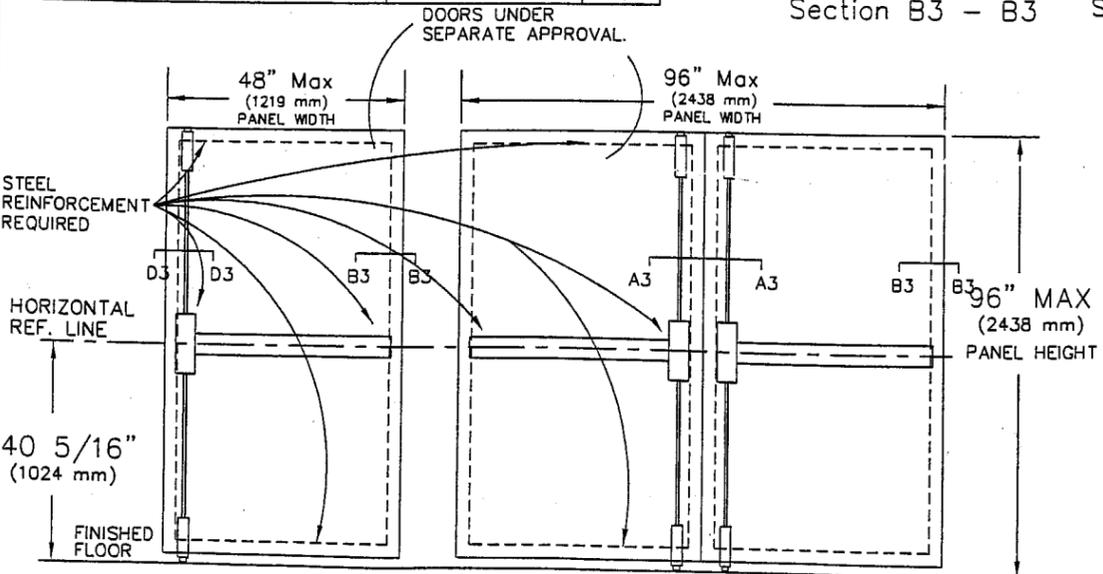
- Each device is approved to be used as equal alternate to corresponding lock approved to be used in applicable 16 ga. (.060 min.) frame & outswing 16 ga. (.060 min.) commercial steel door holding current NOA. Lowest Design Pressure Rating shall apply.
- Device shall be installed on a 16 ga. commercial steel door no larger than approved drawings as shown.
- Steel reinforcement required as indicated on detail drawings.
- Electrical devices are not part of this approval, and must be reviewed by the corresponding authority.

Certification:
 Underwriter's Laboratories - UL10C, UBC 7-2 (1997)
 ANSI/BHMA A156.3 Grade 1 Exit Device
 3/4" Minimum latchbolt throw top & bottom.
 All reinforcements to be spot welded or better by door manufacturer.
 Frame: Steel 16ga Min. (.060 min.)
 Door: Steel 16ga Min. (.060 min.) Top & bottom rails- reinforced w/ full length 16 ga. (.060 min.) Steel Channel.
 Lock Stile/Hinge locations reinforced with 12ga steel box channel full length.
 Strike/Hinge locations reinforced with 7ga Steel plate.
 All dimensions in accordance with manufacturer's standard installation instructions.
 Exit device Model HC9400 Surface Vertical Rod Exit Device.
 Outside trim may be one of the following prefix designations:
 NPT series, HRT series, HTT series, PRT series, PTT series, V series or Y series trims.
 Thru bolts must be used on all installations as shown.
 Interlocking strike angle must be installed on all installations as shown.
 Quantities double for the opposite doors.

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 07-0312.06
 Expiration Date MAY 19, 2011
 By *Shag J. Chande*
 Miami Dade Product Control Division

Allen N. Reeves, P.E.
 Structural Engineer
 Florida License No. 19354

Allen N. Reeves
 18 DECEMBER 2007



DESCRIPTION: HC9400 Surface Vertical Rod Panic Device
 16 ga. flush door and frame



DORMA DOOR CONTROLS INC
 1003 W. BROADWAY
 STEELVILLE, ILLINOIS 62288

SCALE: NONE DRAWN BY: TA DATE: 12/15/06 CHKD BY: DATE:

| REV. PRINT | NO. | BY | DATE |
|------------|-----|----|----------|
| Rev. Print | 4 | TA | 12-12-07 |
| Rev. Print | 3 | TA | 7-26-07 |
| Rev. Print | 2 | TA | 7-5-07 |
| Rev. Print | 1 | TA | 6-11-07 |

DWG. 6 OF 6
 DWG. NO. 9000-003 DADE