



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)

Precision Hardware, Inc.
38100 Jaykay Drive
Romulus, MI 48174-0040

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: Series HC2200, HC2300, HC2800 & HC2100 Vertical Rod Panic Exit Devices w/ HC822 Rim Exit Device w/ Steel reinforced bar Mullion-Component Approval-Impact

APPROVAL DOCUMENT: Drawing No. PHW3001, sheets 1 through 6 of 6, dated 01/20/06, prepared by Product Technology Corporation, signed and sealed by Eric S. Nielsen, 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

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 # 04-0512.01 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 05-1102.12
Expiration Date: September 30, 2009
Approval Date: February 16, 2006
Page 1

1/27/06

Precision Hardware, Inc.

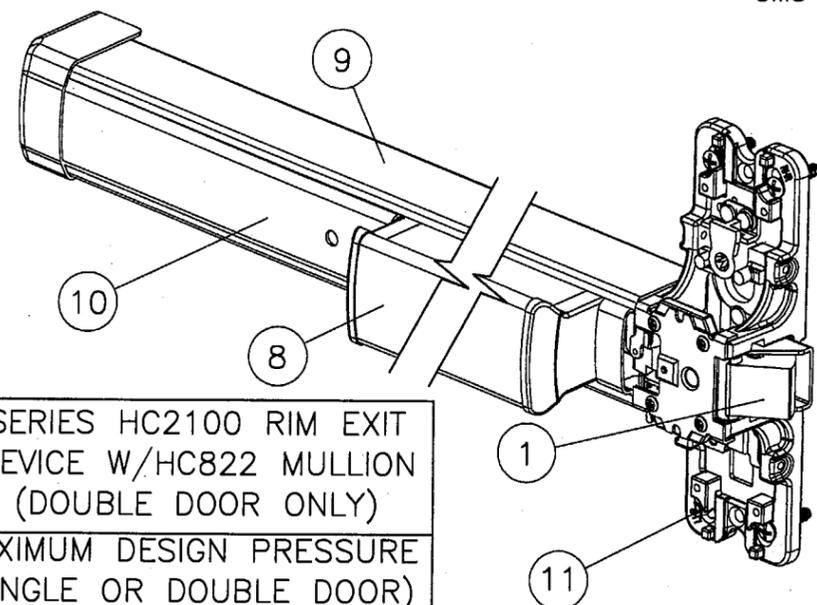
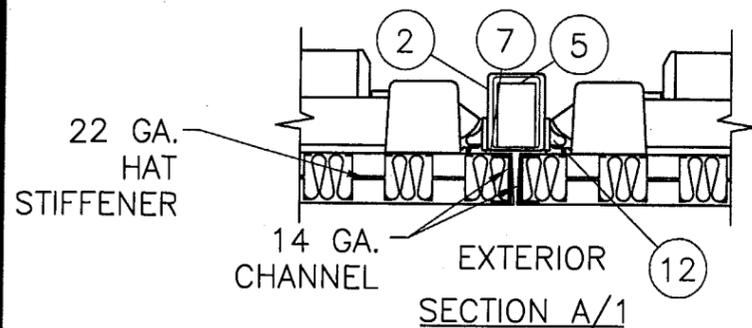
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS** (transferred from file # 04-0512.01)
1. Manufacturer's die drawings and sections.
 2. Drawing No. **PHW3001**, sheets 1 through 6 of 6, dated 01/20/06, prepared by Product Technology Corporation, signed and sealed by Eric S. Nielsen, P.E.
- B. TESTS** (transferred from file # 04-0512.01)
1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94
Along with installation diagrams of a Panic exit devices, prepared by Certified Testing Laboratories Architectural Division, Test Report No(s).**CTLA-1150W**, dated 02/28/04, **CTLA-1150W-1**, dated 03/18/04, **CTLA-1150W-2**, dated 03/18/04 and **CTLA-1150W-3** dated 03/19/04, signed and sealed by Ramesh Patel, P.E.
- C. CALCULATIONS:**
1. Stress verification calculations dated 10-17-05 and revised on 11-20-06, prepared, signed and sealed by Eric S. Nielsen, P.E.
 2. Anchor verification calculations dated 07-29-04 and revised on 08-30-04, prepared, signed and sealed by Eric S. Nielsen, P.E. (transferred from file # 04-0512.01)
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO)
- E. MATERIAL CERTIFICATIONS**
1. None
- F. STATEMENTS** (transferred from file # 04-0512.01)
1. Statement letter of conformance and no financial interest dated 05/10/04, signed and sealed by Eric S. Nielsen, P.E.
 2. Statement letter of Lab compliance, as part of above test reports.
- G. OTHER**
1. This NOA revises & replaces # **04-0512.01**, expiring **September 30, 2009**.
 2. Precision hardware's panic exit device technical publications and catalogs

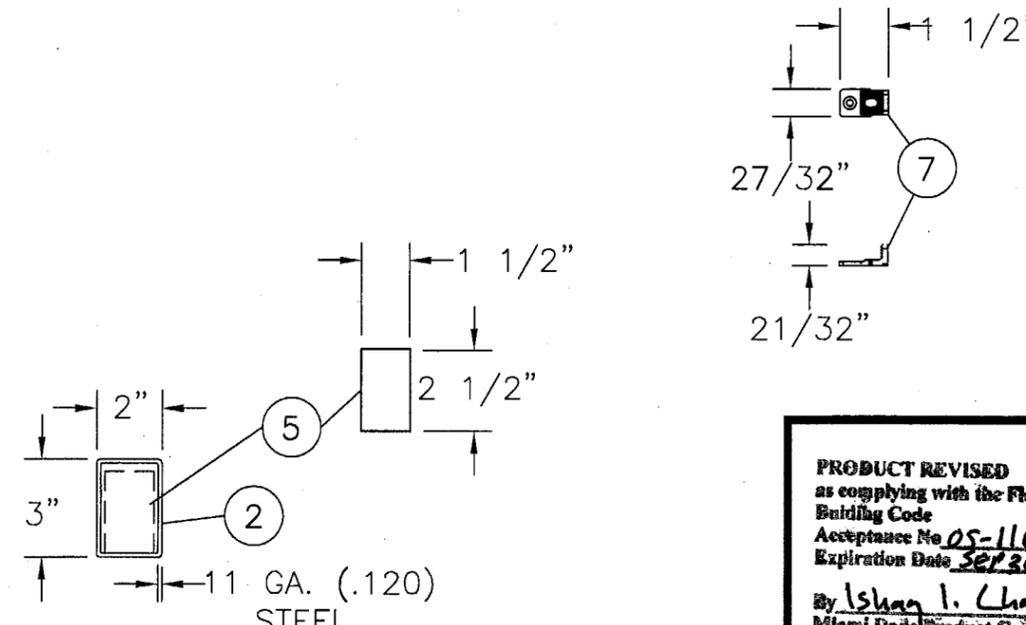
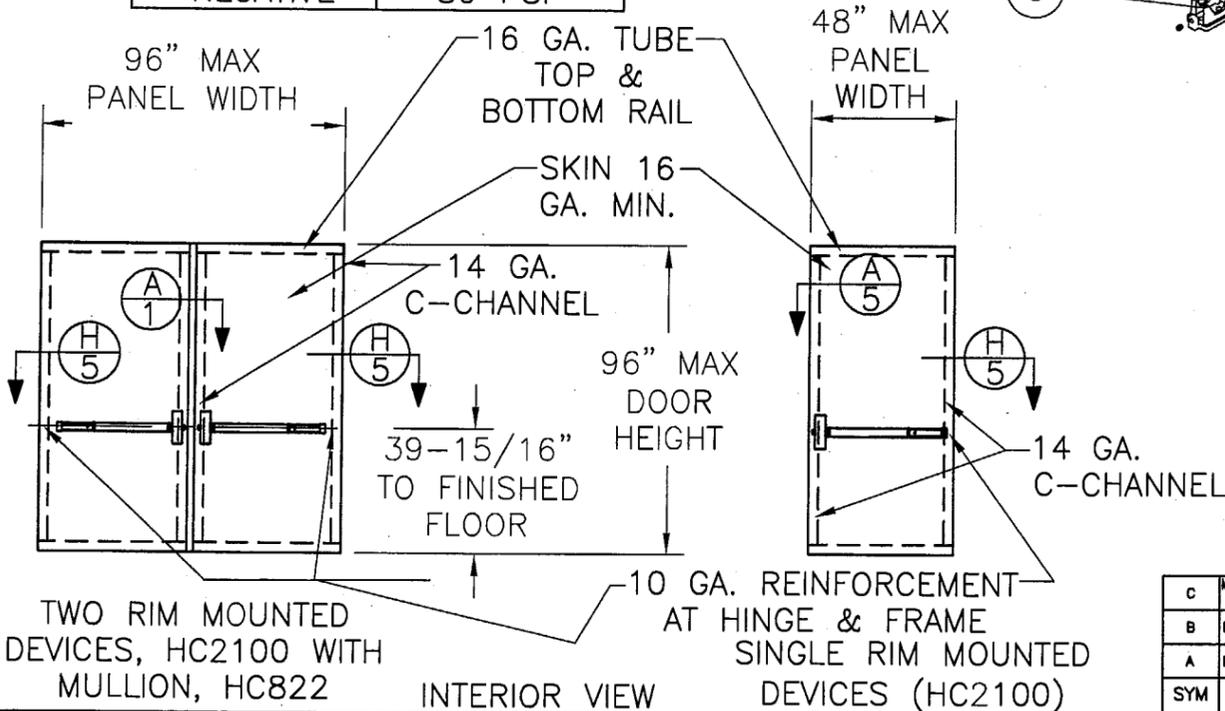
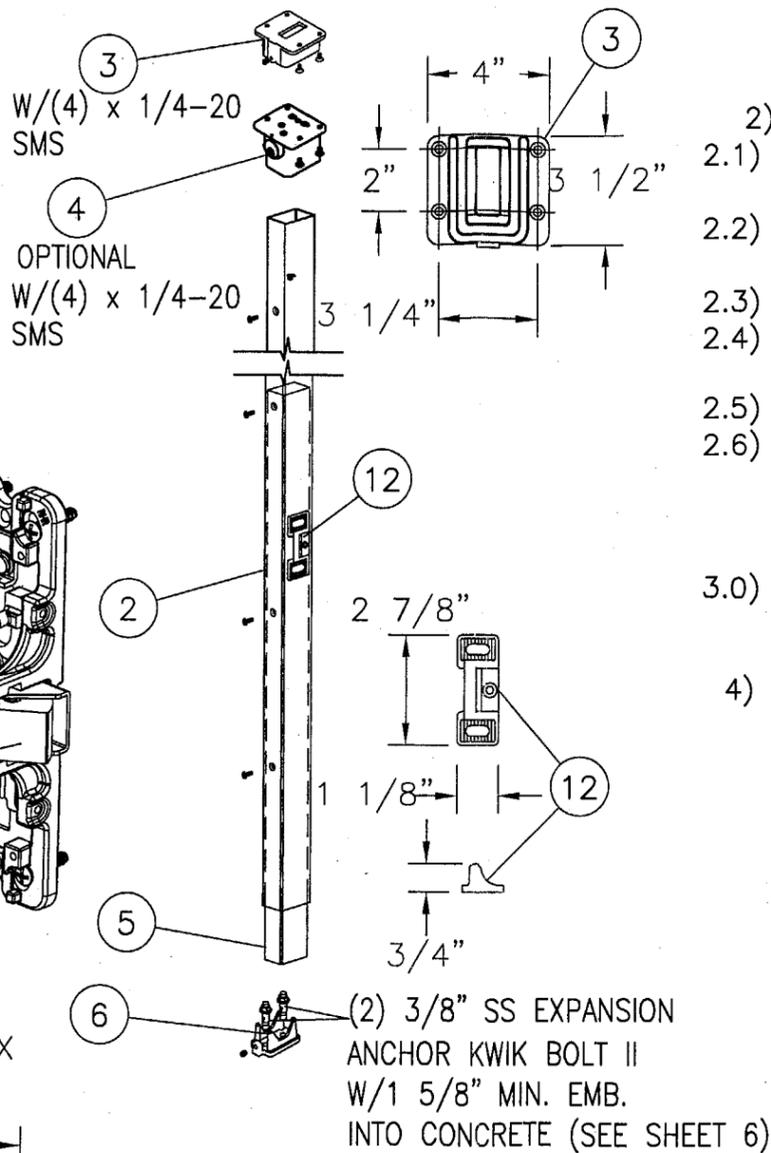
Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 05-1102.12
Expiration Date: September 30, 2009
Approval Date: February 16, 2006

**SERIES HC2100 RIM EXIT W/HC822
MULLION DOUBLE DOOR APPLICATION**



SERIES HC2100 RIM EXIT DEVICE W/HC822 MULLION (DOUBLE DOOR ONLY)	
MAXIMUM DESIGN PRESSURE (SINGLE OR DOUBLE DOOR)	
POSITIVE	80 PSF
NEGATIVE	80 PSF



LIMITATIONS:

- 1) THIS DEVICE IS APPROVED TO BE EQUAL ALTERNATIVE TO BE USED IN 16 GA. STEEL FRAME & 16 GA. (.053" MIN.) STEEL SINGLE OR DOUBLE COMMERCIAL DOORS, HOLDING CURRENT NOA, THE LOWEST DESIGN PRESSURE RATING OF THE DOORS OR THE COMPONENT SHALL APPLY.
- 2) THE DOORS SHALL MEET FOLLOWING REQUIREMENTS:
 - 2.1) DOOR SLAB MUST NOT BE WIDER THAN 48" & HIGHER THAN 96". THE DOOR SHALL BE 1-3/4" MIN. OVERALL THICKNESS.
 - 2.2) DOOR SLAB TO BE REINFORCED WITH MIN. SIX (6) 22 GA. STEEL "HAT-STIFFNERS".
 - 2.3) 10 GA. STEEL HINGE REINFORCEMENT AT HINGE STILE & AT THE FRAME.
 - 2.4) FULL-LENGTH 16 GA. STEEL TUBE (2 X "C" NESTED CHANNELS) AT TOP & BOTTOM RAIL OF THE DOORS.
 - 2.5) MIN. 12 GA. STEEL REINFORCEMENT AT STRIKE PLATE.
 - 2.6) MIN. 14 GA. STEEL "C" CHANNEL AT LOCK STILE/HINGE STILE AS APPLICABLE. MIN. 12 GA. STEEL STILES FULL LENGTH TUBE (2 X "C" NESTED CHANNELS) AS APPLICABLE, PLEASE SEE CORRESPONDING DOOR DETAILS.
- 3.0) ELECTRICAL INSTALLATION IS NOT PART OF THIS APPROVAL & SUCH INSTALLATION MUST BE REVIEWED BY CORRESPONDING BUILDING AUTHORITY.
- 4) INTERLOCKING ANGLE MUST BE INSTALLED ON ALL INSTALLATIONS AS SHOWN.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-1102.12
Expiration Date SEP 30 2009
By Ishag I. Chanda
Miami Dade Product Control
Division

Eric S. Nielsen
1/20/06
Eric S. Nielsen
Florida P. E. No. 41323
Product Technology Corporation
1150 Louisiana Ave., Suite 6
Winter Park, Florida 32789
FBPE Certificate of Authorization NO. 8681

PRECISION HARDWARE
ROMULUS, MICHIGAN

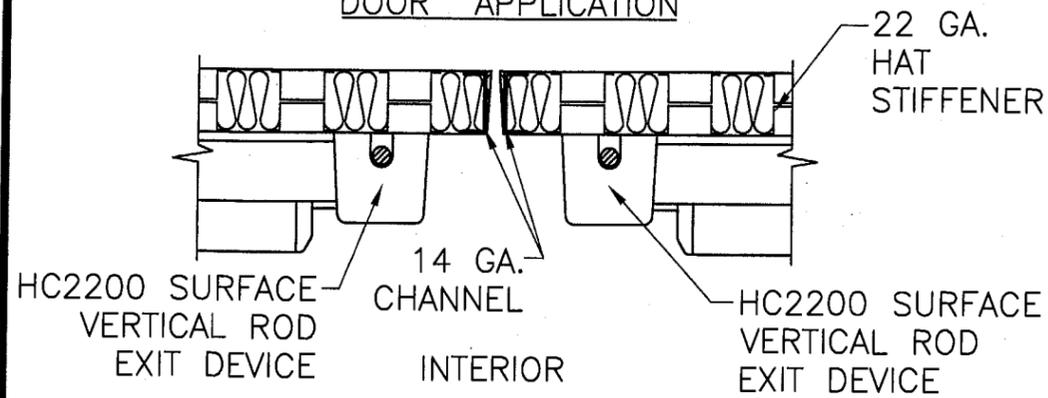
TITLE: HC2100 SERIES RIM DEVICES FOR SINGLE OR DOUBLE DOORS WITH HC822 HARDWARE

PREPARED BY: **PTC** Product Technology Corporation
Phone 407.622.6334 Fax 407.622.6335

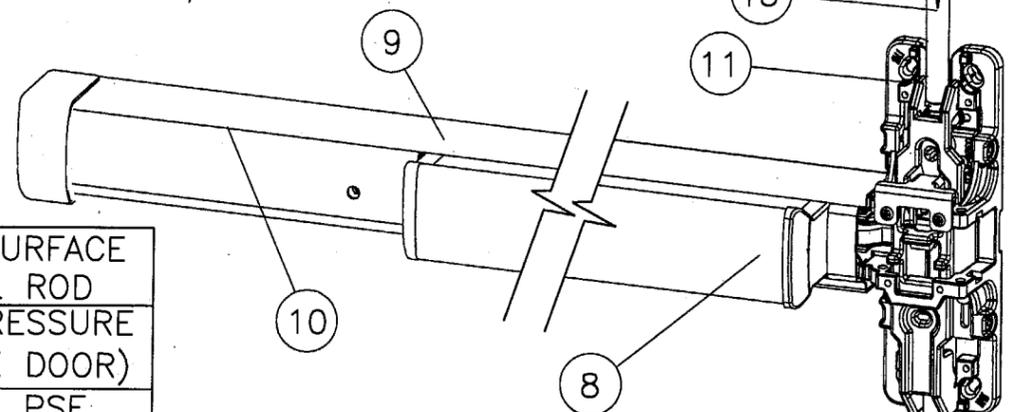
DRN: DRL DATE: 01/16/06
SCALE: N.T.S. DWG. NO: PHW3001
REV: C SHEET: 1 OF 6

SYM	REVISION	DATE	BY
C	MULLION REINFORCEMENT CHANGE	1/16/06	HFN
B	Per Dade letter dated 09/16/05	10/12/05	DRL
A	Per Dade letter 06/15/04	06/28/04	DRL

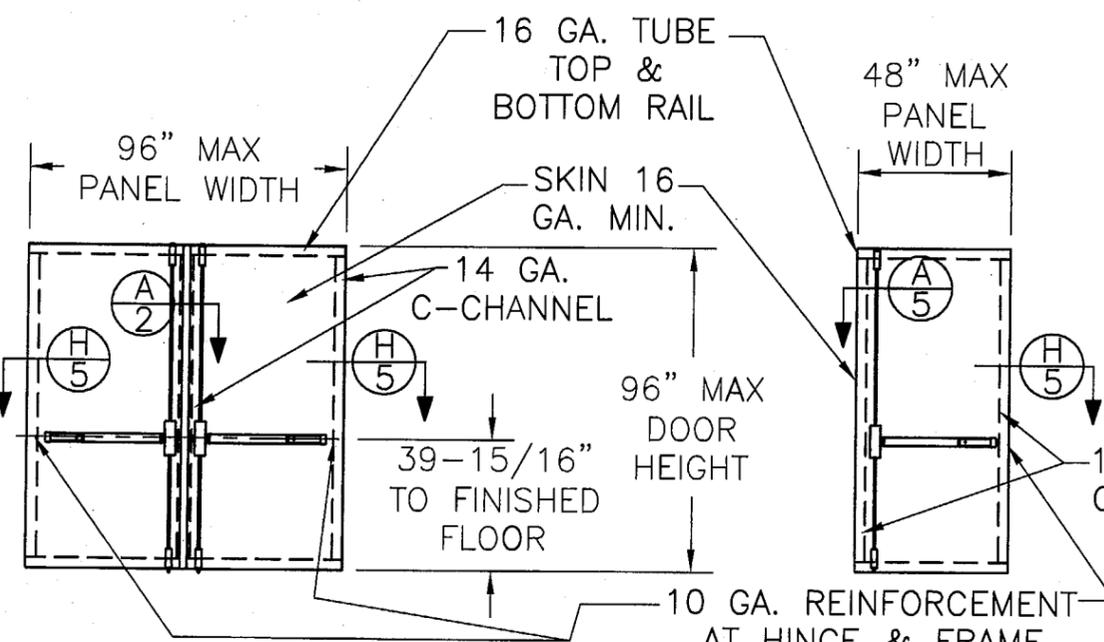
SERIES HC2200 DOUBLE DOOR APPLICATION



SECTION A/2



SERIES HC2200 SURFACE MOUNT VERTICAL ROD	
MAXIMUM DESIGN PRESSURE (SINGLE OR DOUBLE DOOR)	
POSITIVE	80 PSF
NEGATIVE	80 PSF



TWO SVR (HC2200) MOUNTED DEVICES

SINGLE SVR (HC2200) MOUNTED DEVICES

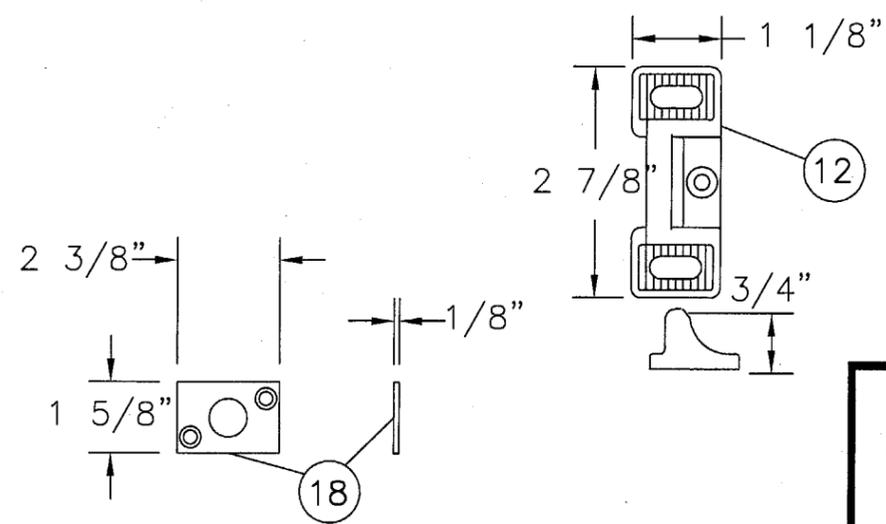
SYM	REVISION	DATE	BY
C	MULLION REINFORCEMENT CHANGE	1/16/06	HFN
B	Per Dade letter dated 09/16/05	10/12/05	DRL
A	Per Dade letter 06/15/04	06/28/04	DRL

12 INSTALLED W/2 1/4-20 SMS

LIMITATIONS:

- 1) THIS DEVICE IS APPROVED TO BE EQUAL ALTERNATIVE TO BE USED IN 16 GA. STEEL FRAME & 16 GA. (.053" MIN.) STEEL SINGLE OR DOUBLE COMMERCIAL DOORS, HOLDING CURRENT NOA, THE LOWEST DESIGN PRESSURE RATING OF THE DOORS OR THE COMPONENT SHALL APPLY.
- 2) THE DOORS SHALL MEET FOLLOWING REQUIREMENTS:
 - 2.1) DOOR SLAB MUST NOT BE WIDER THAN 48" & HIGHER THAN 96". THE DOOR SHALL BE 1-3/4" MIN. OVERALL THICKNESS.
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 - 2.3) 10 GA. STEEL HINGE REINFORCEMENT AT HINGE STILE & AT THE FRAME.
 - 2.4) FULL-LENGTH 16 GA. STEEL TUBE (2 X "C" NESTED CHANNELS) AT TOP & BOTTOM RAIL OF THE DOORS.
 - 2.5) MIN. 12 GA. STEEL REINFORCEMENT AT STRIKE PLATE.
 - 2.6) MIN. 14 GA. STEEL "C" CHANNEL AT LOCK STILE/HINGE STILE AS APPLICABLE. MIN. 12 GA. STEEL STILES FULL LENGTH TUBE (2 X "C" NESTED CHANNELS) AS APPLICABLE, PLEASE SEE CORRESPONDING DOOR DETAILS.
- 3.0) ELECTRICAL INSTALLATION IS NOT PART OF THIS APPROVAL & SUCH INSTALLATION MUST BE REVIEWED BY CORRESPONDING BUILDING AUTHORITY.

18 INSTALLED W/2 1/4-20 MS



PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 05-1102-12
 Expiration Date SEP 30 2009
 By: Ishag J. Chandra
 Miami Dade Product Control Division

ESN
 1/20/06
 Eric S. Nielsen
 Florida P. E. No. 41323
 Product Technology Corporation
 1150 Louisiana Ave., Suite 6
 Winter Park, Florida 32789
 FBPE Certificate of Authorization NO. 8681

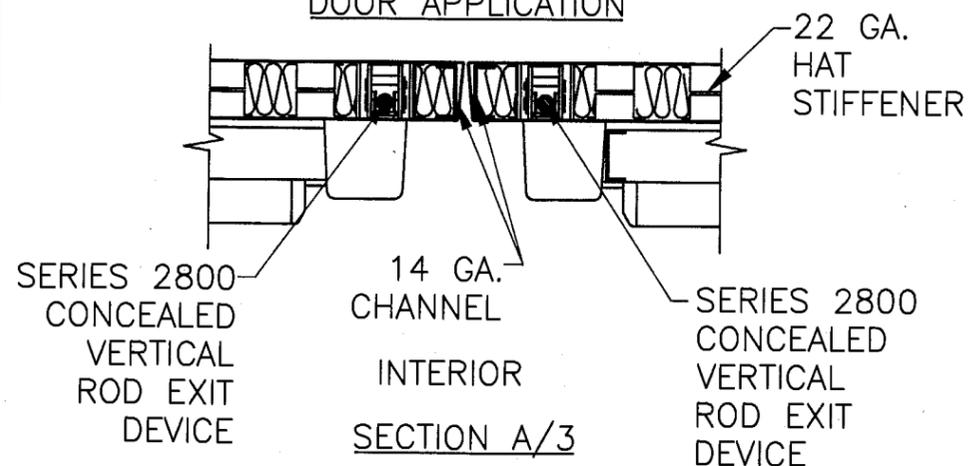
PRECISION HARDWARE
 ROMULUS, MICHIGAN

TITLE: HC2200 SERIES SURFACE VERTICAL ROD DEVICES FOR SINGLE OR DOUBLE DOORS

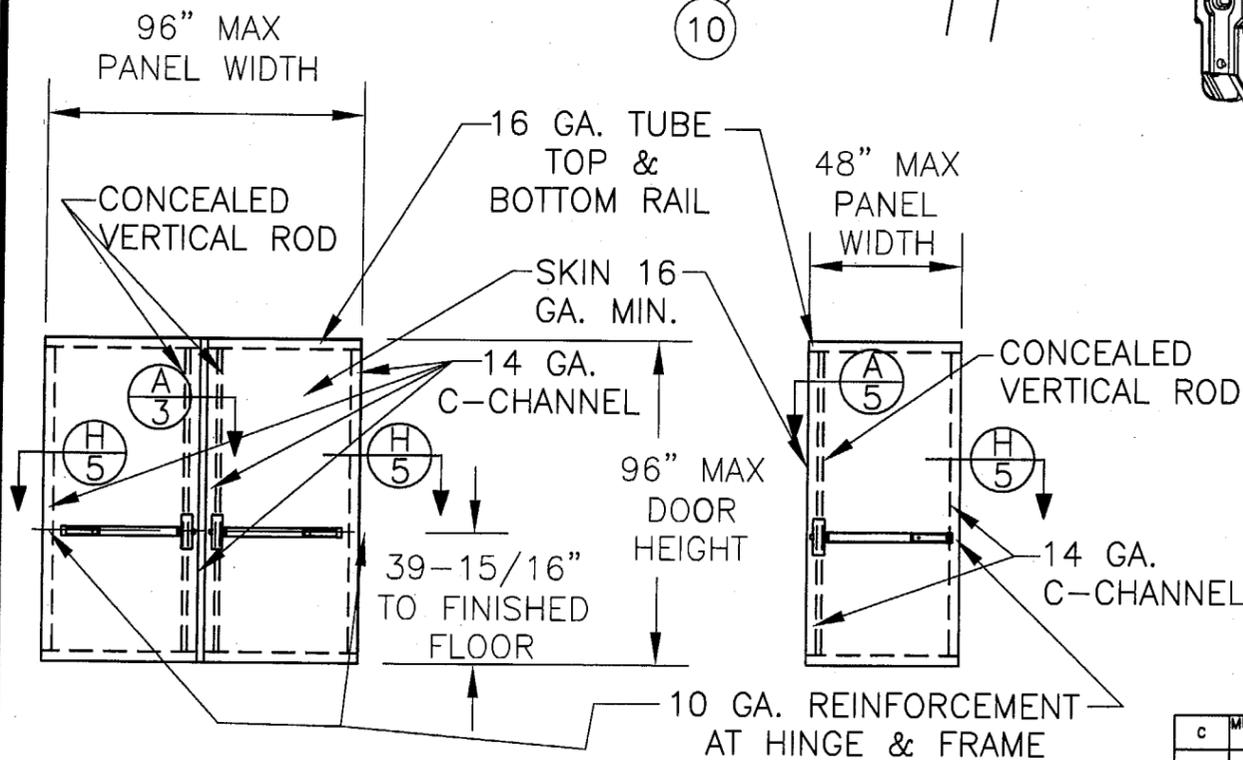
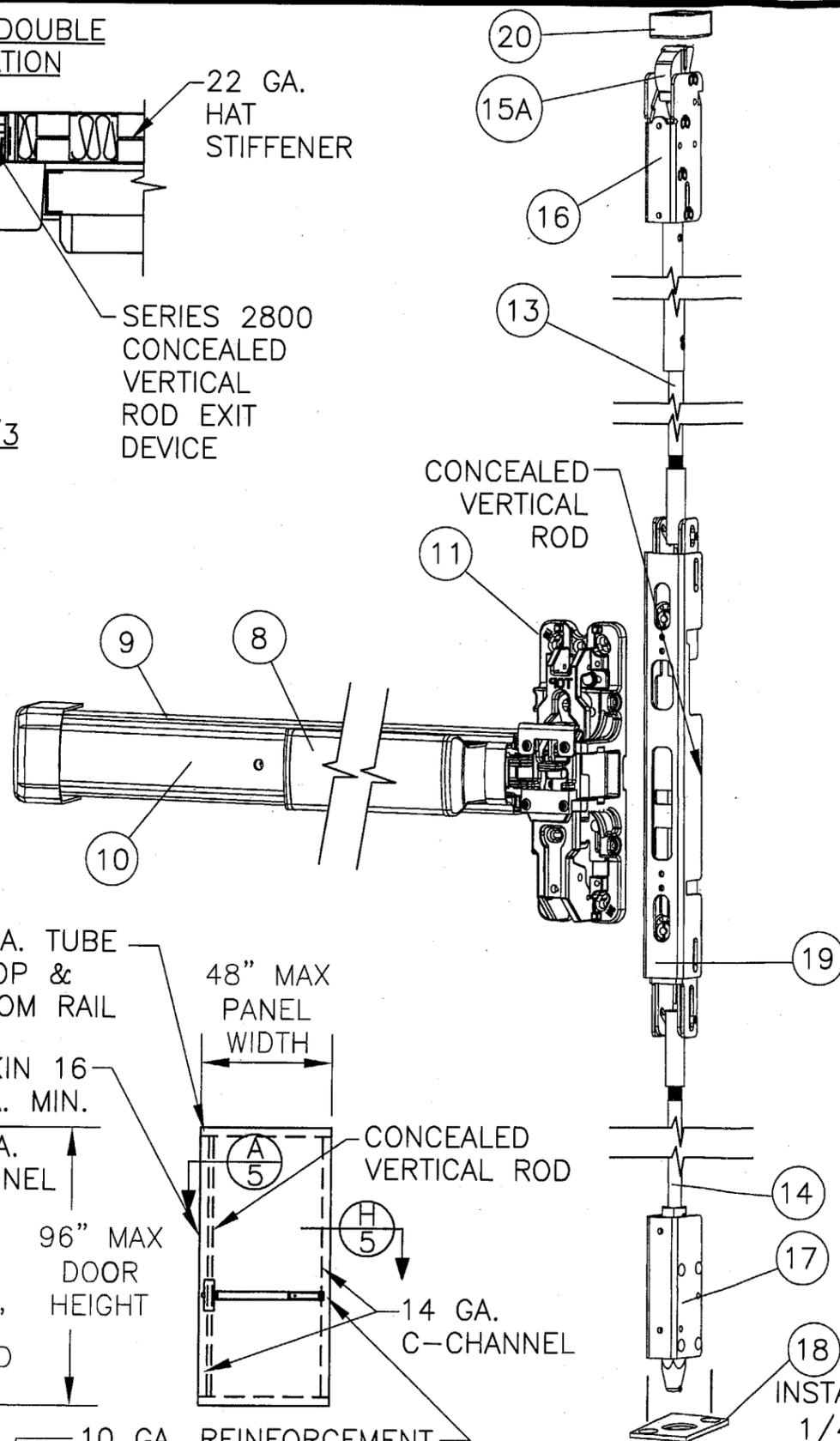
PREPARED BY: **PTC** Product Technology Corporation
 Phone 407.622.6334 Fax 407.622.6335

DRN:	DRL	DATE:	01/16/06
SCALE:	N.T.S.	DWG. NO.:	PHW3001
REV:	C	SHEET:	2 OF 6

SERIES HC2800 DOUBLE DOOR APPLICATION



SERIES HC2800 CONCEALED VERTICAL ROD EXIT DEVICE	
MAXIMUM DESIGN PRESSURE (SINGLE OR DOUBLE DOOR)	
POSITIVE	80 PSF
NEGATIVE	80 PSF

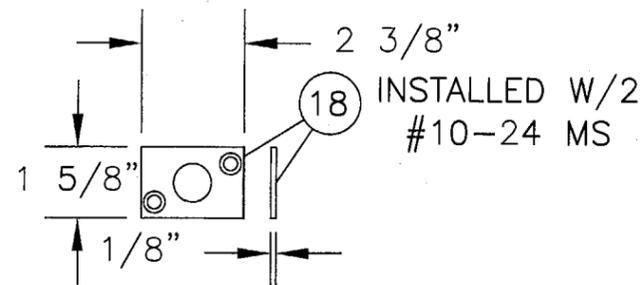
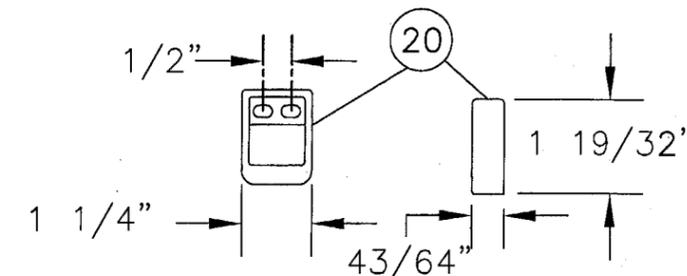


SERIES HC2800 TWO CVR MOUNTED DEVICES

SERIES HC2800 SINGLE CVR MOUNTED DEVICES

LIMITATIONS:

- 1) THIS DEVICE IS APPROVED TO BE EQUAL ALTERNATIVE TO BE USED IN 16 GA. STEEL & 16 GA. (.053" MIN.) STEEL SINGLE OR DOUBLE COMMERCIAL DOORS, HOLDING CURRENT NOA, THE LOWEST DESIGN PRESSURE RATING OF THE DOORS OR THE COMPONENT SHALL APPLY.
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- 3.0) ELECTRICAL INSTALLATION IS NOT PART OF THIS APPROVAL & SUCH INSTALLATION MUST BE REVIEWED BY CORRESPONDING BUILDING AUTHORITY.



PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 05-1102.12
 Expiration Date SEP 30, 2009
 By Ishag I. Lhanda
 Miami Dade Product Control Division

SYM	REVISION	DATE	BY
C	MULLION REINFORCEMENT CHANGE	1/16/06	HFN
B	Per Dade letter dated 09/16/05	10/12/05	DRL
A	Per Dade letter 08/15/04	06/28/04	DRL

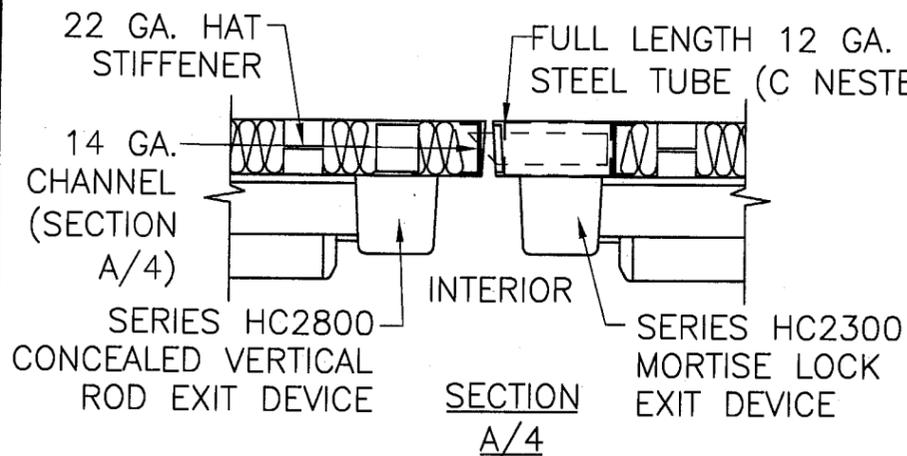
ESN
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PRECISION HARDWARE
 ROMULUS, MICHIGAN

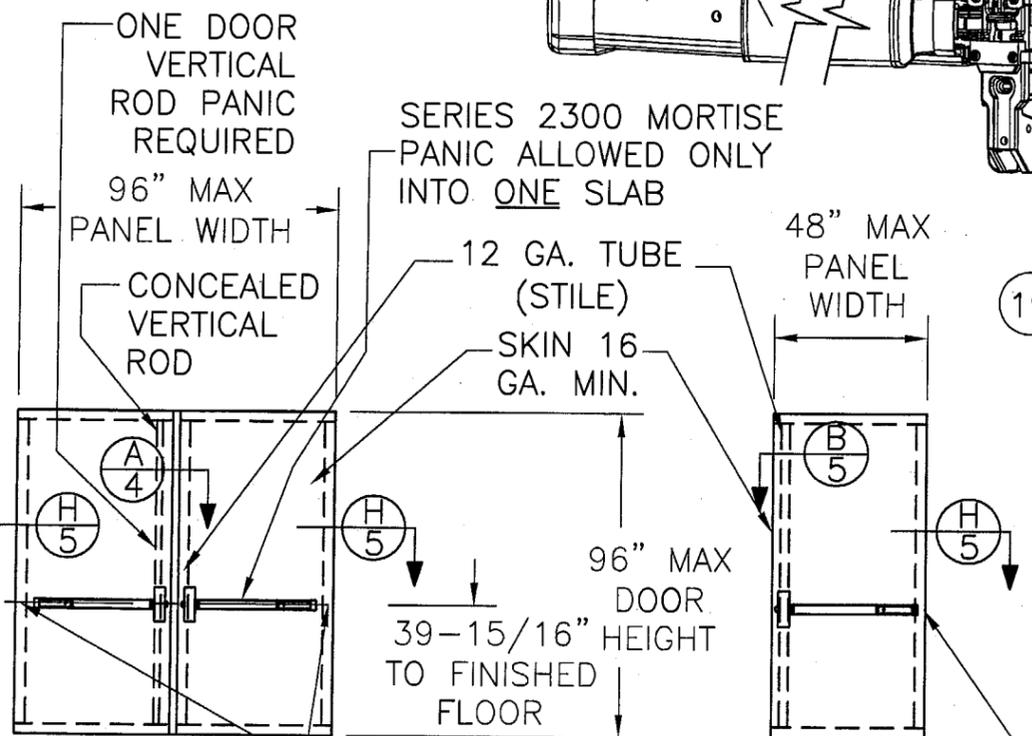
TITLE: HC2800 SERIES CONCEALED VERTICAL ROD DEVICES FOR SINGLE OR DOUBLE DOORS

PREPARED BY: **PTC** Product Technology Corporation
 DRN: DRL DATE: 01/16/06
 SCALE: N.T.S. DWG. NO: PHW3001
 REV: C SHEET: 3 OF 6
 Phone 407.622.6334 Fax 407.622.6335

DOUBLE DOOR APPLICATION

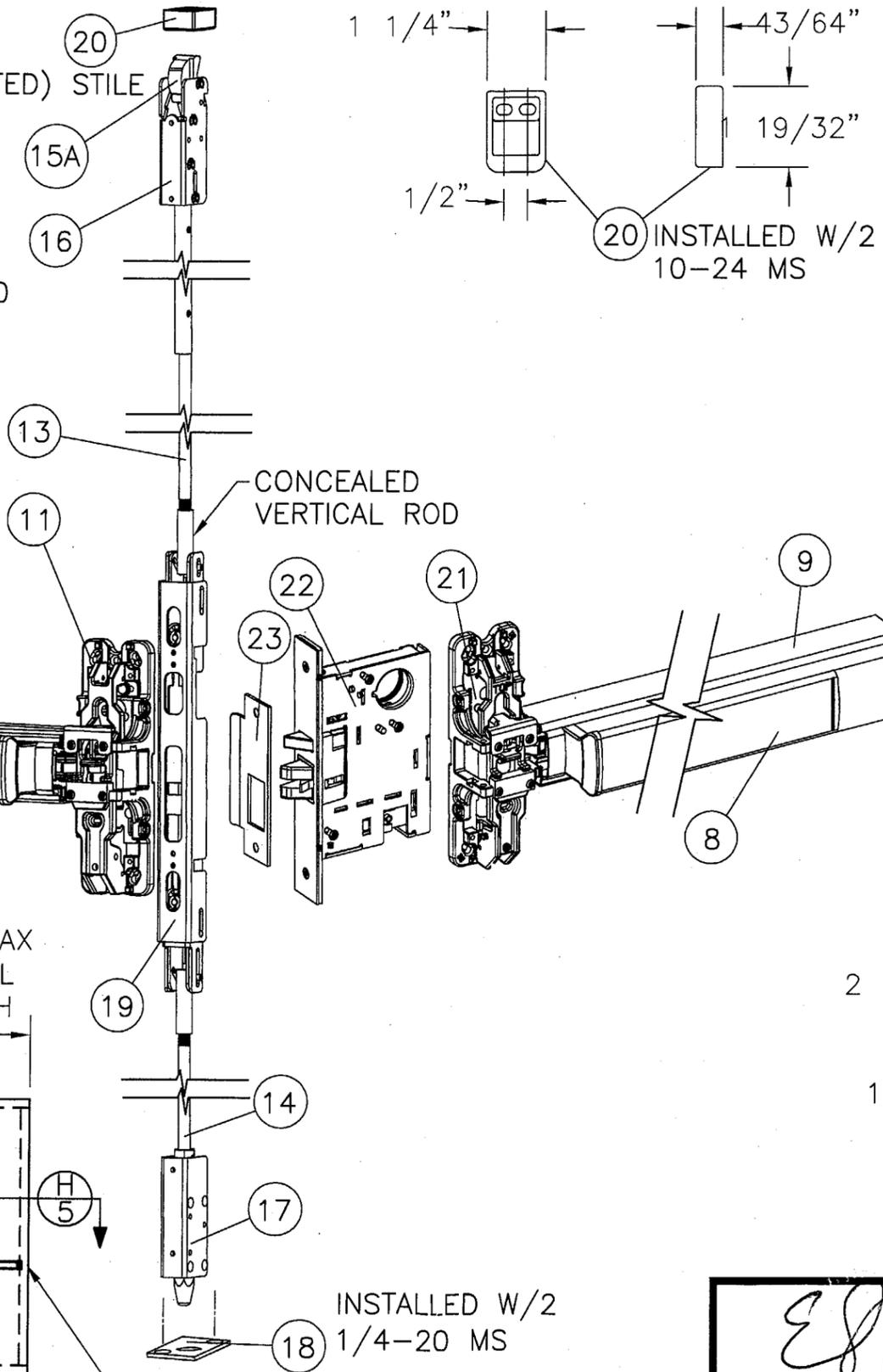


SERIES HC2800 W/HC2300 MORTISE EXIT DEVICE	
MAXIMUM DESIGN PRESSURE	
POSITIVE	60 PSF
NEGATIVE	60 PSF



SERIES 2800 CONCEALED VERTICAL ROD W/MORTISE HC2300 DEVICE

SERIES HC2300 SINGLE MORTISE DEVICE



LIMITATIONS:

- 1) THIS DEVICE IS APPROVED TO BE EQUAL ALTERNATIVE TO BE USED IN 16 GA. STEEL FRAME & 16 GA. (.053" MIN.) STEEL SINGLE OR DOUBLE COMMERCIAL DOORS, HOLDING CURRENT NOA, THE LOWEST DESIGN PRESSURE RATING OF THE DOORS OR THE COMPONENT SHALL APPLY.
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 - 2.6) MIN. 14 GA. STEEL "C" CHANNEL AT LOCK STILE/HINGE STILE AS APPLICABLE. MIN. 12 GA. STEEL STILES FULL LENGTH TUBE (2 X "C" NESTED CHANNELS) AS APPLICABLE, PLEASE SEE CORRESPONDING DOOR DETAILS.
- 3.0) ELECTRICAL INSTALLATION IS NOT PART OF THIS APPROVAL & SUCH INSTALLATION MUST BE REVIEWED BY CORRESPONDING BUILDING AUTHORITY.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 1102-12 Expiration Date SEP 30, 2009
 By Ishag J. Claude
 Miami Dade Product Control Division

SYM	REVISION	DATE	BY
C	MULLION REINFORCEMENT CHANGE	1/18/08	HPN
B	Per Dade letter dated 09/18/05	10/12/05	DRL
A	Per Dade letter 06/18/04	06/28/04	DRL

ESN
 1/20/08
 Eric S. Nielsen
 Florida P. E. No. 41323
 Product Technology Corporation
 1150 Louisiana Ave., Suite 6
 Winter Park, Florida 32789
 FBPE Certificate of Authorization NO. 8681

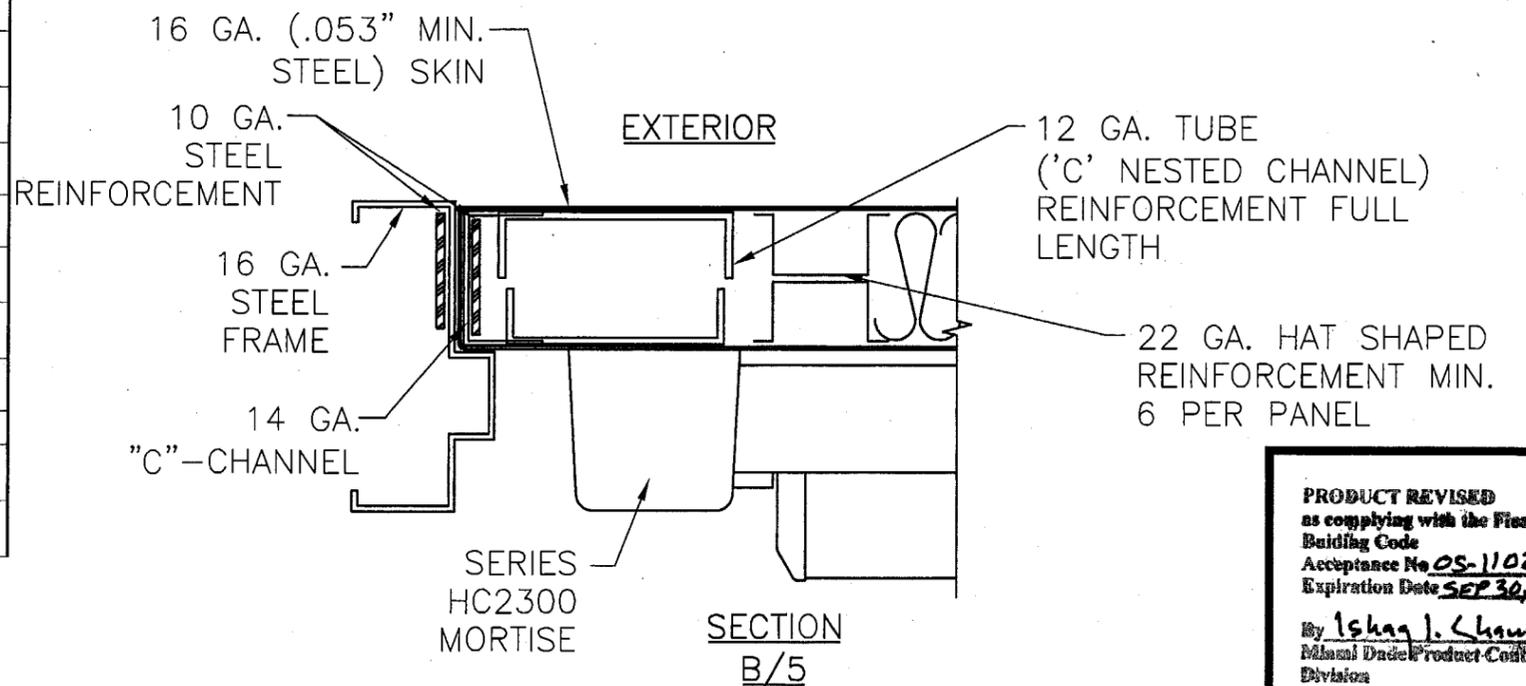
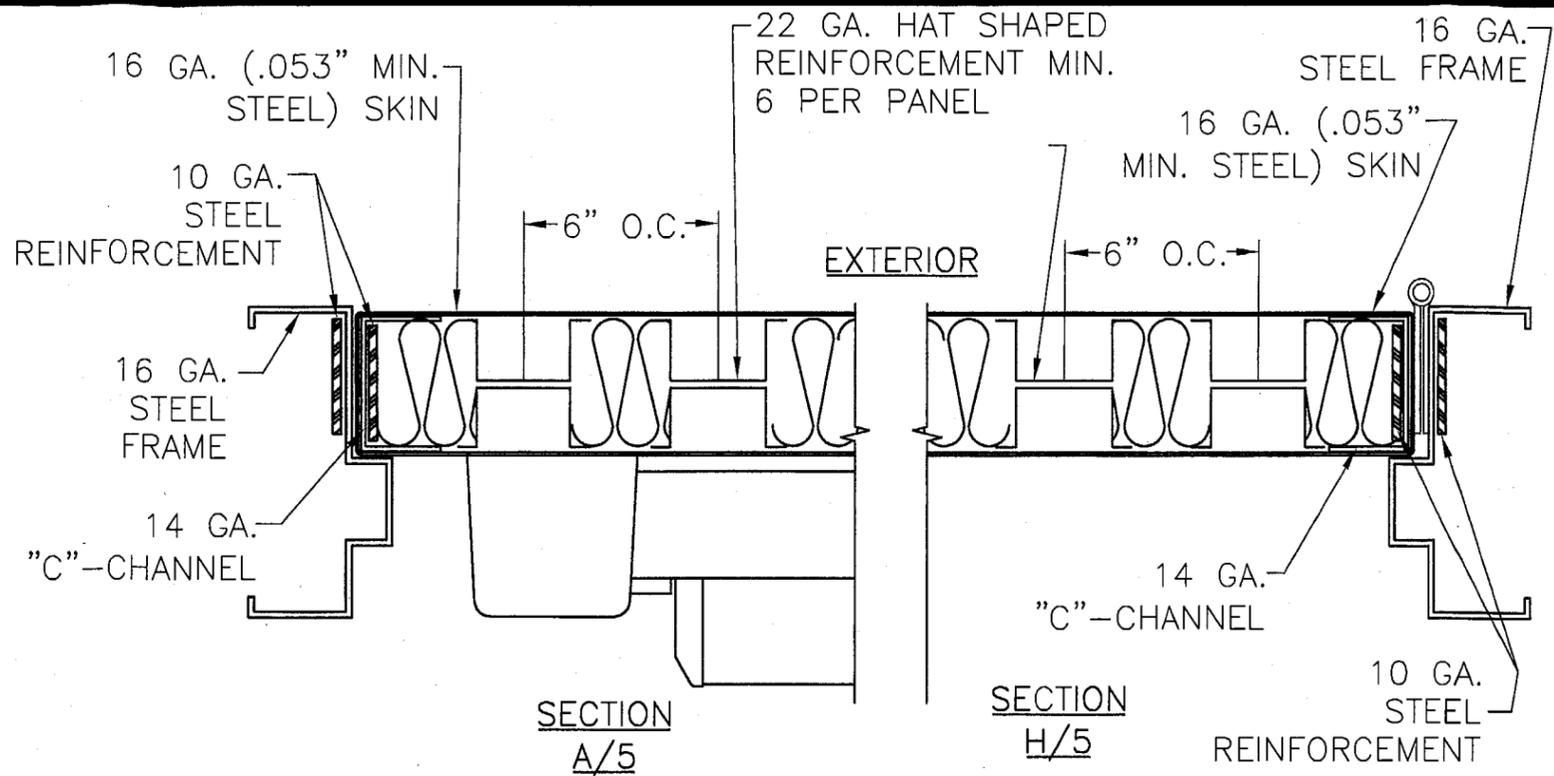
PRECISION HARDWARE
 ROMULUS, MICHIGAN

TITLE: HC2300 & HC2800 SERIES CONCEALED VERT. DEVICES MORTISE SINGLE OR DOUBLE DOORS

PREPARED BY: **PTC** Product Technology Corporation
 Phone 407.622.6334 Fax 407.622.6335

DRN: DRL DATE: 01/16/06
 SCALE: N.T.S. DWG. NO: PHW3001
 REV: C SHEET: 4 OF 6

SERIES HC2100, HC2200, HC2300 & HC2800 DEVICES					
ITEM NO.	QTY.	DESCRIPTION	PART NO.	SERIES	DRAWING NO.
1	1	3/4 THROW DEADLOCKING LATCHBOLT		HC2100	1
2	1	HC822 STEEL MULLIONS (ASTM-A500 STEEL GRADE B OR HIGHER STRENGTH MATERIAL) W/(4) 1/4-20 SS FLAT HEAD SCREWS		HC2100	1
3	1	822 MULLION CAP W/(1) 1/4-20 SET SCREW & (4) 1/4-20 MACHINE SCREWS		HC2100	1
4	1	HCKR822 MULLION CAP W/(4) 1/4-20 MACHINE SCREWS		HC2100	1
5	1	STEEL MULLION REINFORCEMENT (1018 COLD DRAWN - 2 1/2" X 1 1/2" BAR STOCK)		HC822	1
6	1	MULLION SILL BASE W/(2) 3/8 X 2 1/4" HILTI KWIK BOLT II EXPANSION ANCHORS W/1 5/8" EMB. INTO CONCRETE & (1) 1/4-20 SET SCREW		HC822	1
7	1	INTERLOCKING ANGLE W/(1) 1/4-20 & (1) #10-24 MACHINE SCREWS	S216	HC2100	1
8	1	TOUCHBAR ASSEMBLY		HC2100, HC2200 HC2300, HC2800	1, 2 3 & 4
9	1	DEVICE CHANNEL		HC2100, HC2200 HC2300, HC2800	1, 2 3 & 4
10	1	HINGE FILLER		HC2100, HC2200 HC2300, HC2800	1, 2 3 & 4
11	1	ACTIVE CASE W/(4) #10-24 MACHINE SCREWS		HC2100, HC2200 HC2300, HC2800	1, 2 3 & 4
12	1	STRIKE W/(2) 1/4-20 & (1) 10-24 MACHINE SCREW	S300	HC2100, HC2200	1 & 2
13	1	TOP ROD		HC2200 & HC2800	2, 3 & 4
14	1	BOTTOM ROD		HC2200 & HC2800	2, 3 & 4
15	1	DEADLOCKING LATCHBOLT W/(2) 1/4-20 MACHINE SCREWS & SEX BOLTS		HC2200	2 & 4
15A	1	DEADLOCKING LATCHBOLT W/(2) 10-24 MACHINE SCREWS		HC2800	3
16	1	TOP LATCH ASSEMBLY		HC2200 & HC2800	2, 3 & 4
17	1	BOTTOM BOLT ASSEMBLY		HC2200 & HC2800	2, 3 & 4
18	1	BOTTOM STRIKE W/(2) 3/8 X 2 1/4" STUD ANCHORS	S460	HC2200 & HC2800	2, 3 & 4
19	1	CENTER CHASSIS		HC2800	3 & 4
20	1	TOP STRIKE W/(2) #10-24 MACHINE SCREWS	S519	HC2800	3 & 4
21	1	MORTISE ACTIVE CASE W/(4) #10-24 MACHINE SCREWS (SINGLE DOOR ONLY)		HC2300	4



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-1102.12
Expiration Date SEP 30, 2009
By Ishag J. Chaudhry
Miami Dade Product Control
Division

SYM	REVISION	DATE	BY
C	MULLION REINFORCEMENT CHANGE	1/18/06	HFN
B	Per Dade letter dated 09/16/05	10/12/05	DRL
A	Per Dade letter 08/15/04	08/28/04	DRL

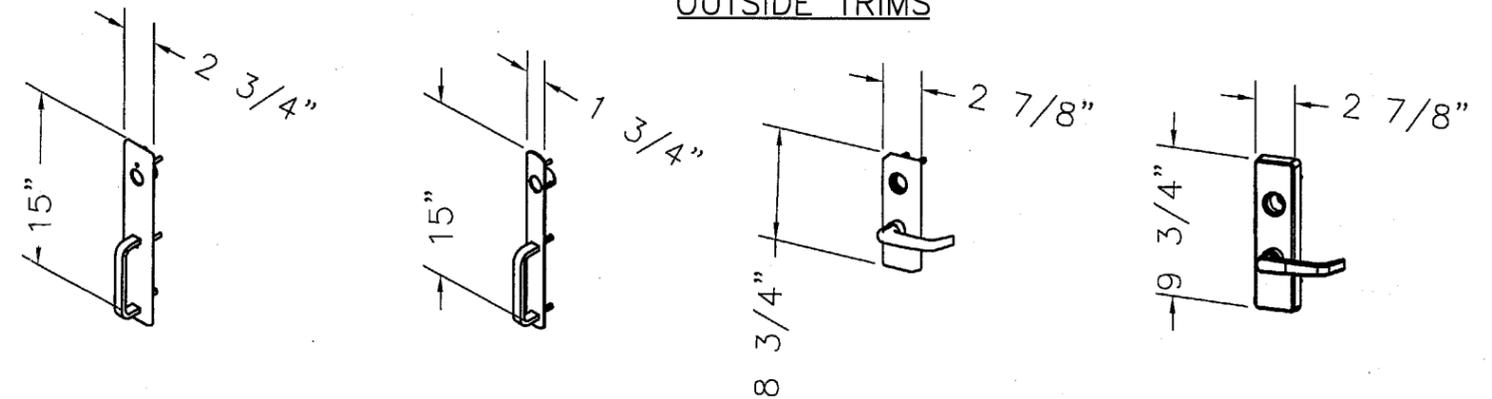
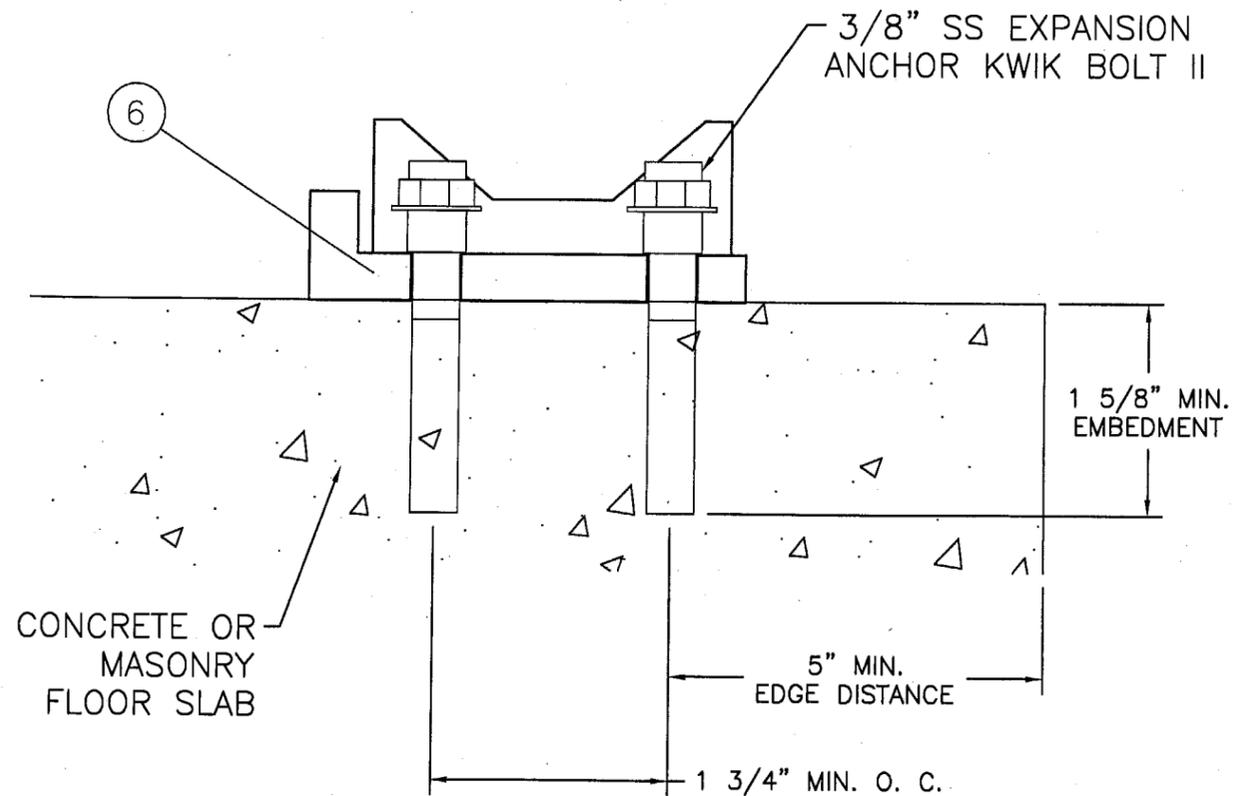
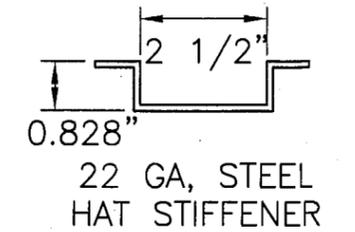
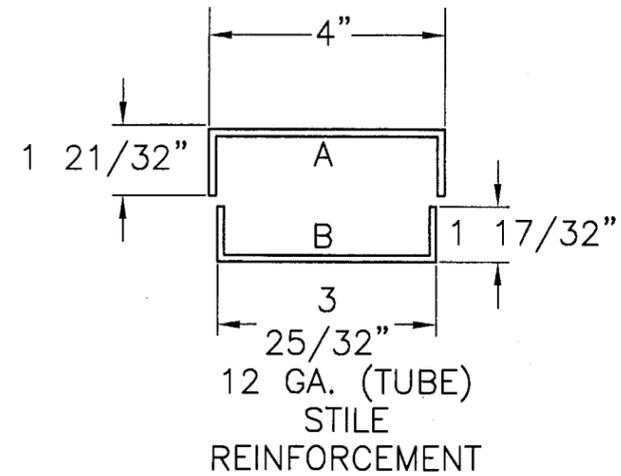
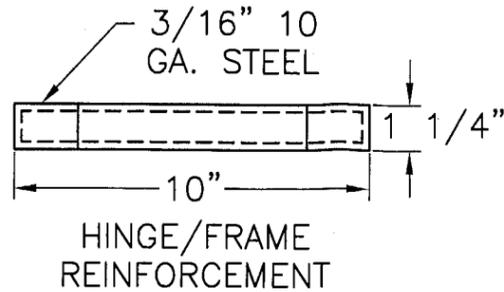
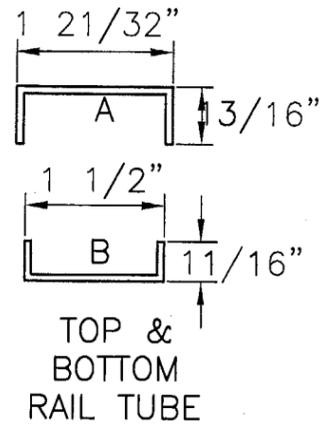
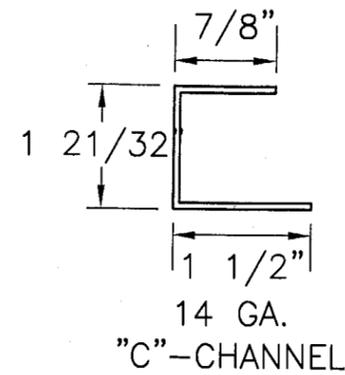
ESM
1/20/06
Eric S. Nielsen
Florida P. E. No. 41323
Product Technology Corporation
1150 Louisiana Ave., Suite 6
Winter Park, Florida 32789
FBPE Certificate of Authorization NO. 8681

PRECISION HARDWARE
ROMULUS, MICHIGAN

TITLE: BILL OF MATERIALS
AND SECTION DETAILS

PREPARED BY: **PTC** Product Technology Corporation
Phone 407.622.6334 Fax 407.622.6335

DRN: DRL DATE: 01/16/06
SCALE: N.T.S. DWG. NO: PHW3001
REV: C SHEET: 5 OF 6



OPTIONAL OUTSIDE TRIMS (SEE CATALOG FOR FINISHES,
PART NUMBERS AND DESCRIPTIONS)

- 1) ALL TRIMS THRU BOLT WITH #10-24 MACHINE SCREWS.
- 2) 1700 & 2000 SERIES TRIMS AVAILABLE WITH A, B & C STYLE PULLS.
- 3) 3900 & 4900 SERIES TRIMS AVAILABLE WITH A, B, C, & D LEVERS AND KNOBS.
- 4) CONFORMS TO UL10C AND UBC7-2, BHMA CERTIFIED FOR ANSI 156.3 GRADE 1.

SYM	REVISION	DATE	BY
C	MULLION REINFORCEMENT CHANGE	1/16/06	HFN
B	Per Dade letter dated 08/18/05	10/12/05	DRL
A	Per Dade letter 8/15/04	08/28/05	DRL

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1/20/06
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Winter Park, Florida 32789
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PRECISION HARDWARE
ROMULUS, MICHIGAN

TITLE: COMPONENTS CROSS SECTION
AND TRIM OPTIONS

PREPARED BY: **PTC** Product Technology Corporation
DRN: DRL DATE: 01/16/05
SCALE: N.T.S. DWG. NO: PHW3001
REV: C SHEET: 6 OF 6
Phone 407.622.6334 Fax 407.622.6335

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-1102.12
Expiration Date SEP 30, 2009
By *Isaac J. Glauco*
Miami Dade Product Control
Division