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dormakaba USA, Inc.

BEST SERIES HC2200, HC2300 & HC2800 VERTICAL ROD PANIC EXIT DEVICES AND HC2100 RIM EXIT DEVICE WITH HCK822 STEEL REMOVABLE MULLION (PANIC HARDWARE COMPONENT APPROVAL)

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC) INCLUDING PROVISIONS SET FORTH FOR HIGH-VELOCITY HURRICANE ZONES (HVHZ).
2. THE DOORS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

2.1. THE DOOR SHALL BE 1-3/4" MIN. OVERALL THICKNESS

2.2. DOOR PANEL SHALL BE REINFORCED WITH 22 GA. (0.029") "HAT-STIFFENERS" AT A MAXIMUM OF 6" O.C.

2.3. HINGE REINFORCEMENTS AT DOOR PANEL AND AT FRAME SHALL BE A MINIMUM OF 7 GA. (0.1875") THICK STEEL.

2.4. FULL-LENGTH 16 GA. (0.053" MIN.) STEEL TUBE (2 X C-NESTED CHANNELS) AT TOP & BOTTOM RAILS OF DOORS.

2.5. MIN. 12 GA. (0.101" MIN.) STEEL REINFORCEMENT AT HINGE & STRIKE PLATES WHERE APPLICABLE.

2.6. MIN. 14 GA. (0.067" MIN.) STEEL C-CHANNEL AT HINGE & LOCK STILES WHERE APPLICABLE.

2.7. FULL LENGTH 12 GA. (0.101" MIN.) STEEL TUBE (2 X C-NESTED CHANNELS) AT STILES WHERE APPLICABLE.

2.8. PLEASE REFER TO DOOR ELEVATIONS, SHEET 2, AND CORRESPONDING DETAILS FOR APPLICABILITY OF REINFORCEMENT REQUIREMENTS (SHEETS 3-7).
3. STRIKES, HINGES, AND ALL APPLICABLE REINFORCEMENTS AS REQUIRED ON DETAIL DRAWING IN THIS APPROVAL.
4. LOCKING HARDWARE SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. ALL FASTENERS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
6. STEEL COMPONENTS SHALL BE COATED OR COMPLY WITH CORROSION RESISTANCE PROTECTION IN CONFORMANCE WITH THE MATERIAL PROTECTION PROVISIONS OF THE CURRENT EDITION FBC, CHAPTER 22.
7. ALL TRIMS SHALL BE THRU BOLTED WITH #10-24 MACHINE SCREWS.
8. 1700 & 200 SERIES TRIMS AVAILABLE WITH A, B, & C STYLE PULLS.
9. 3900 & 4900 SERIES TRIMS AVAILABLE WITH A, B, C, & D LEVERS AND KNOBS.
- 10.OPTIONAL TRIMS MODELS INCLUDE: 1703, 2003, 4900.
- 11.CONFORMS TO UL10C AND UBC7-2, BHMA CERTIFIED FOR ANSI 156.3 GRADE 1.

LIMITATIONS OF USE:

1. PANIC EXIT HARDWARE DEVICES ARE APPROVED TO BE EQUAL ALTERNATIVES OF TESTED COMPONENTS TO BE USED IN 16 GA. STEEL FRAME AND 16 GA. (0.053" MIN.) STEEL SINGLE OR DOUBLE DOORS, HOLDING CURRENT NOA OR FPA. THE LOWEST DESIGN PRESSURE RATING OF DOOR OR THE COMPONENT APPROVAL HEREIN SHALL CONTROL.
2. DOOR PANELS MUST NOT BE WIDER THAN 48" AND HIGHER THAN 96".
3. ELECTRICAL/ELECTRONIC FUNCTION AND INSTALLATION OTHER THAN SELF CONTAINED ELECTRONIC DEVICES ARE NOT PART OF THIS APPROVAL AND MUST BE REVIEWED BY AUTHORITY HAVING JURISDICTION(AHJ) IN THE AREA.
4. COMPLIANCE WITH BUILDING EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

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SHEET	SHEET DESCRIPTION
1	GENERAL NOTES
2	DOOR ELEVATIONS
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4	HC2200 SURFACE VERTICAL ROD (SVR)
5	HC2800 CONCEALED VERTICAL ROD (CVR)
6	HC2800 CVR W/ HC2300 MORTISE LOCK EXIT DEVICE
7	BILL OF MATERIALS (BOM) & COMPONENTS



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TITLE:
BEST SERIES HC2200, HC2300,HC2800 SVR AND
HC2100 RIM W/ HCK822 REMOVABLE MULL

GENERAL NOTES

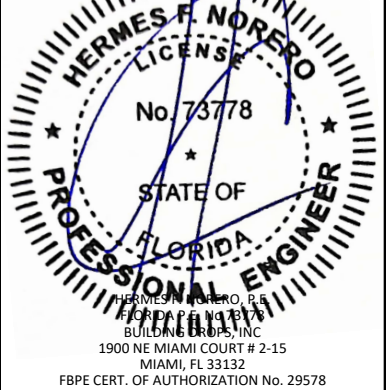
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REMARKS	BY	DATE
FBC 2020 UPDATE	LL	07/22
MULLION UPDATE	DI	04/24

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
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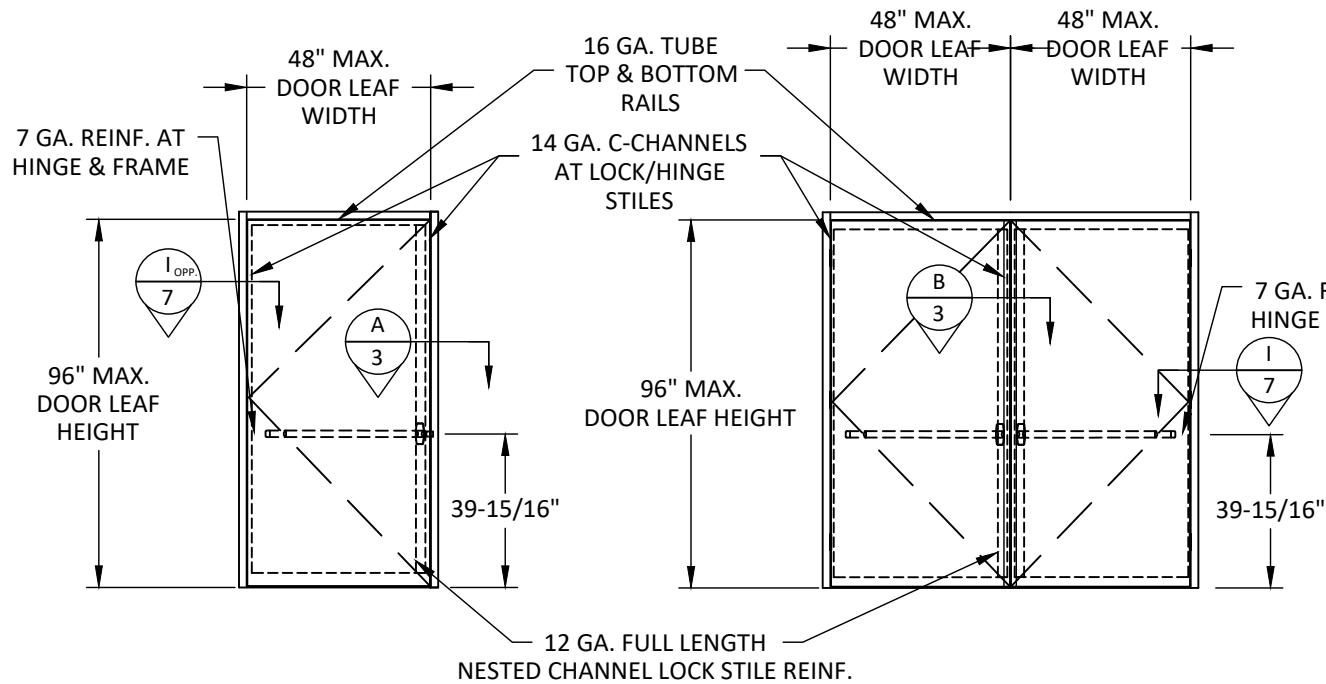
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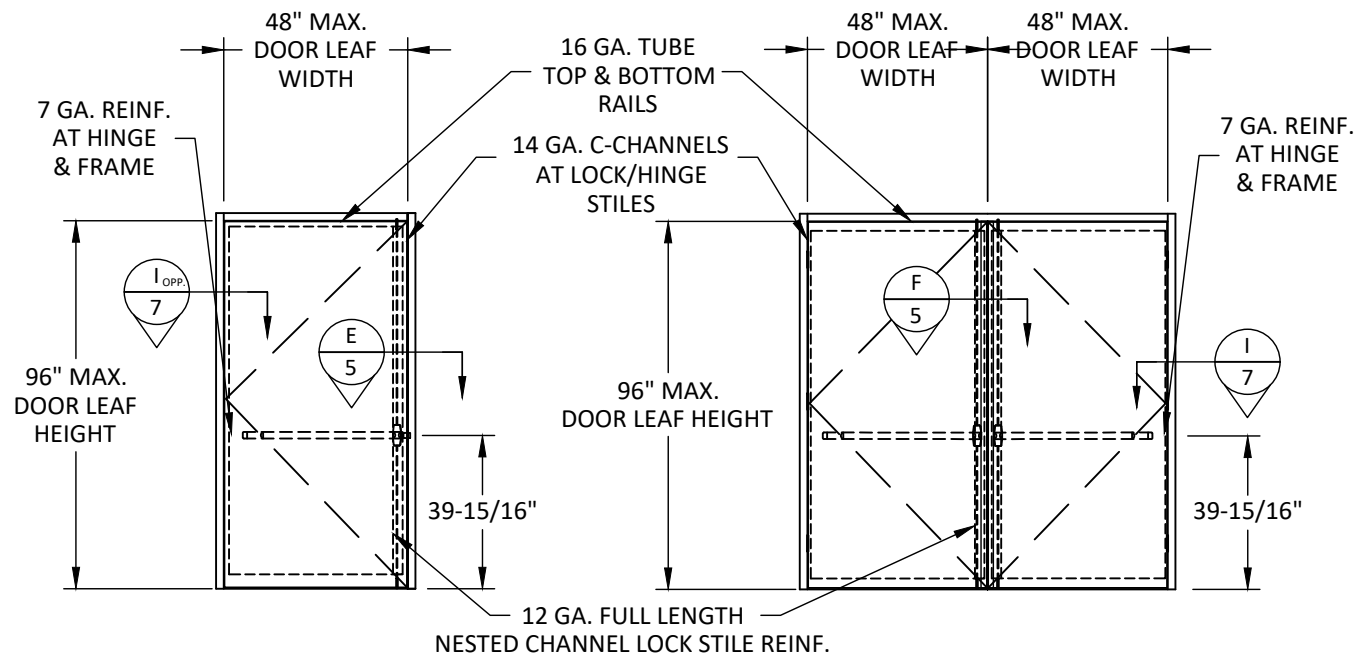
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OUTSWING SINGLE STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
HC2100 SERIES RIM DEVICE

OUTSWING SINGLE OR PAIR STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
TWO HC2100 SERIES RIM DEVICES
WITH HCKR822 MULLION

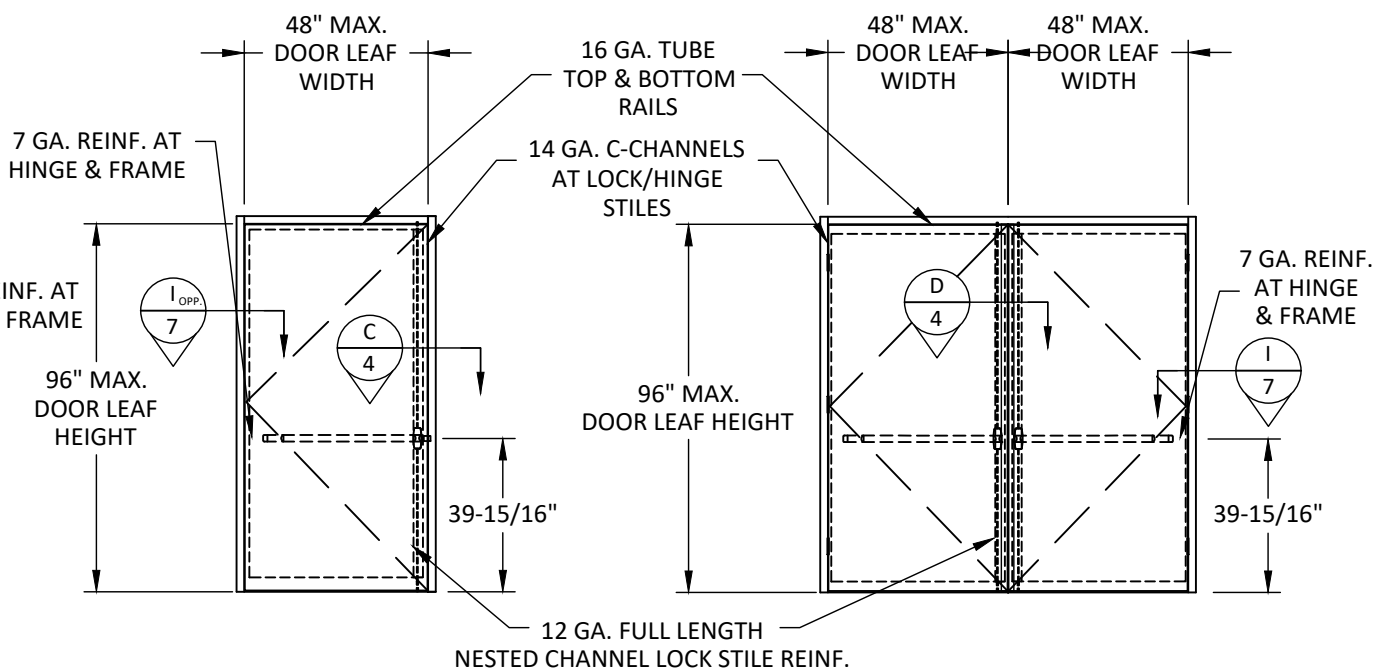
SERIES HC2100 RIM EXIT W/ HCK822 MULLION



OUTSWING SINGLE STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
HC2800 SERIES CONCEALED VERTICAL ROD

OUTSWING SINGLE OR PAIR STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
TWO HC2800 SERIES CONCEALED VERTICAL RODS

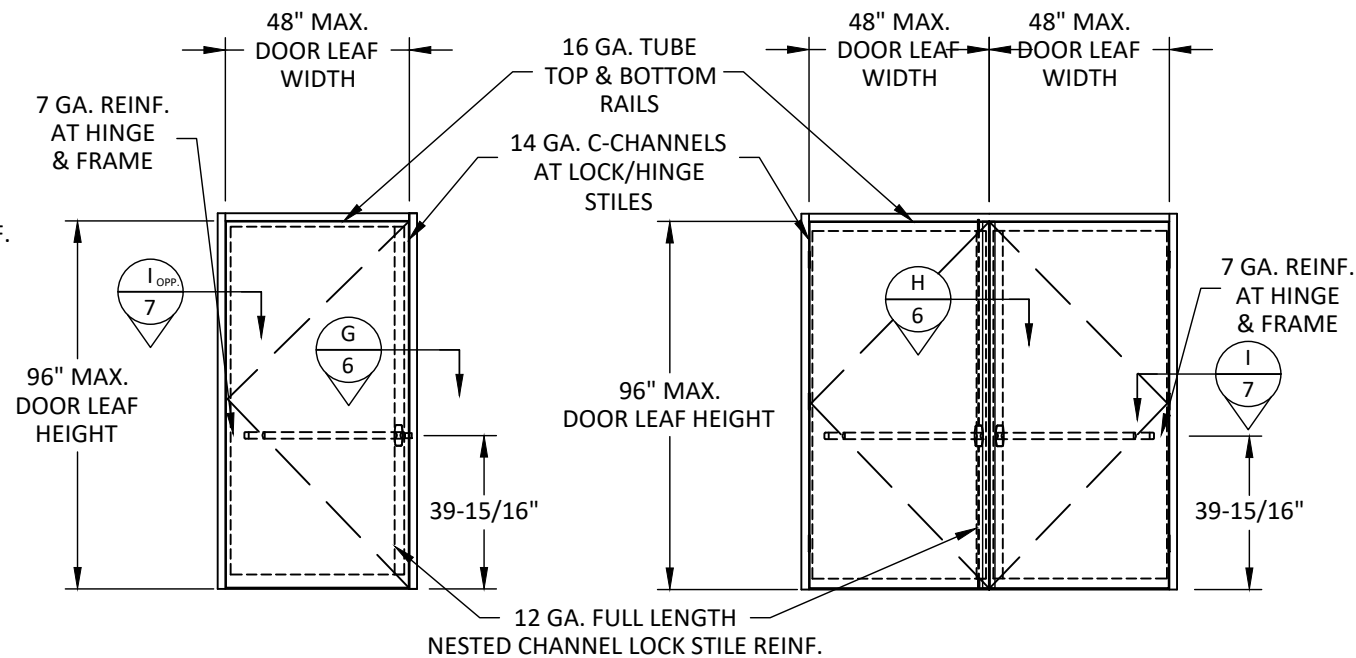
SERIES HC2800 CONCEALED VERTICAL ROD DEVICES (CVR)



OUTSWING SINGLE STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
HC2200 SERIES SURFACE VERTICAL RODS

OUTSWING SINGLE OR PAIR STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
TWO HC2200 SERIES SURFACE VERTICAL RODS

SERIES HC2200 SURFACE VERTICAL ROD (SVR)



OUTSWING SINGLE STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
HC2300 SERIES SINGLE MORTISE LOCK

OUTSWING SINGLE OR PAIR STEEL DOOR
DOORS UNDER SEPARATE APPROVAL
HC2800 CONCEALED VERTICAL ROD WITH
HC2300 SERIES MORTISE LOCK

SERIES HC2800 CVR/SERIES HC2300 MORTISE LOCK
OR SERIES HC2800 CVR SINGLE OR DOUBLE DOORS

NOTE: ALL ELEVATIONS SHOWN FROM EXTERIOR SIDE

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HC2100 RIM W/ HCK822 REMOVABLE MULL

DOOR ELEVATIONS

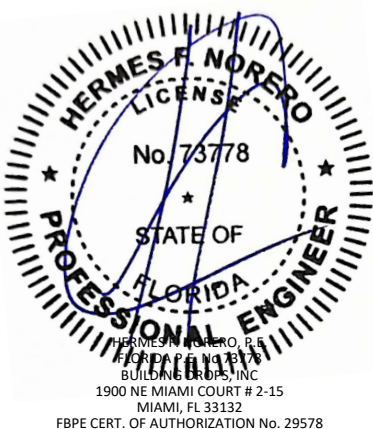
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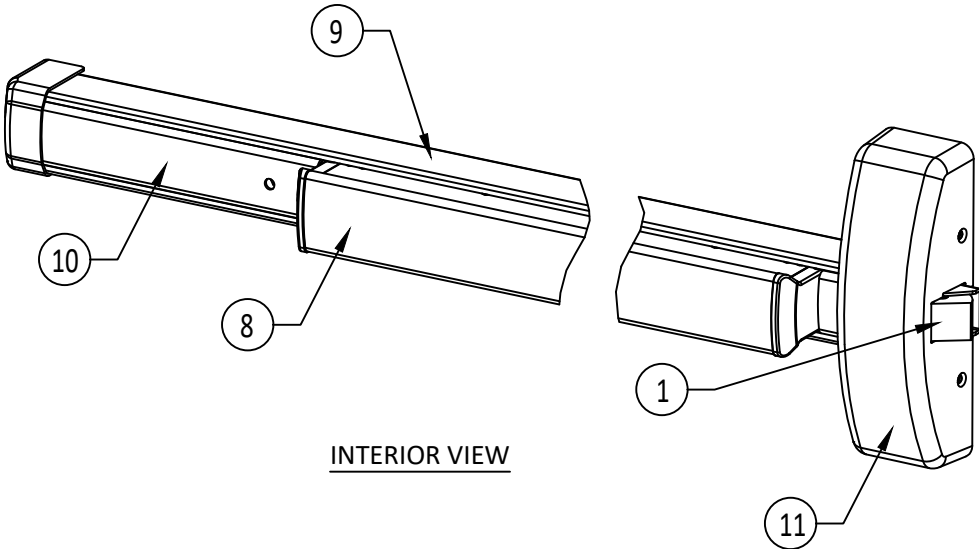
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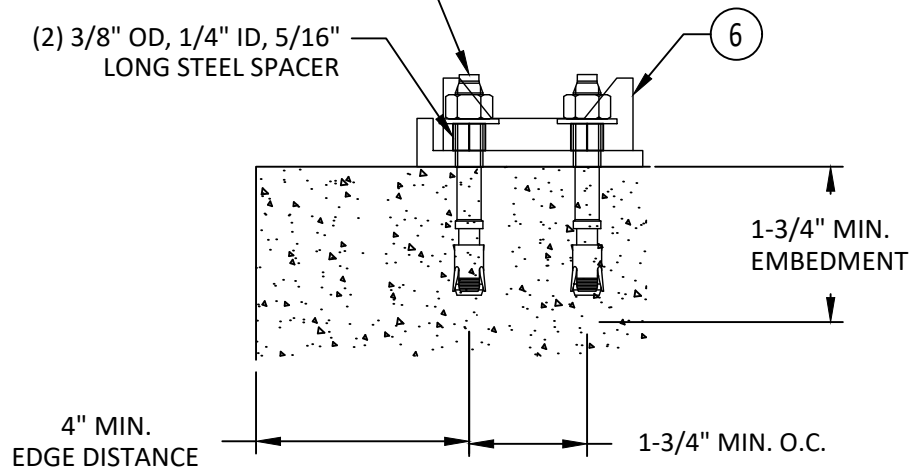
SERIES HC2100 RIM EXIT WITH HCK 822 MULLION EXIT DEVICE		
MAX. DESIGN PRESSURE	SINGLE DOOR W/ OUT MULLION	DOUBLE DOOR WITH MULLION
POSITIVE	70 PSF	65 PSF
NEGATIVE	70 PSF	65 PSF



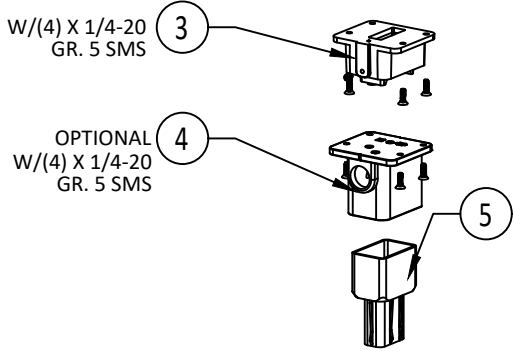
INTERIOR VIEW

(2) 1/4" HILTI TZ2 EXPANSION CONCRETE ANCHORS; 1-3/4" MIN EMBEDMENT INTO MIN. 3000 PSI CONCRETE

(2) 3/8" OD, 1/4" ID, 5/16" LONG STEEL SPACER

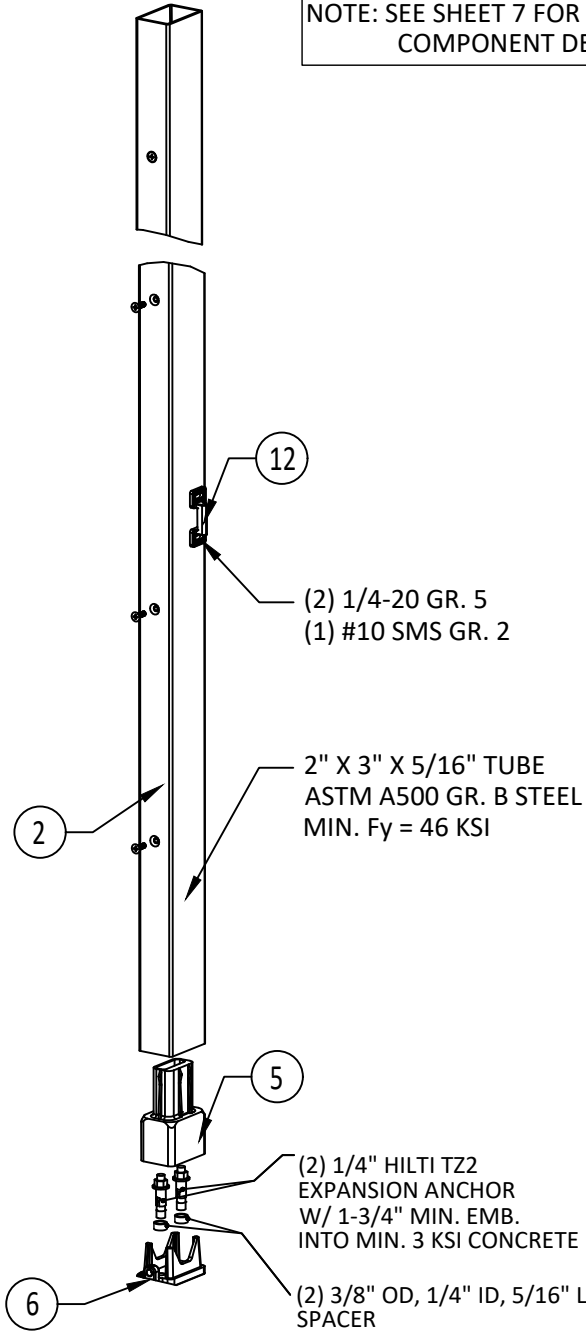


MULLION SILL BASE

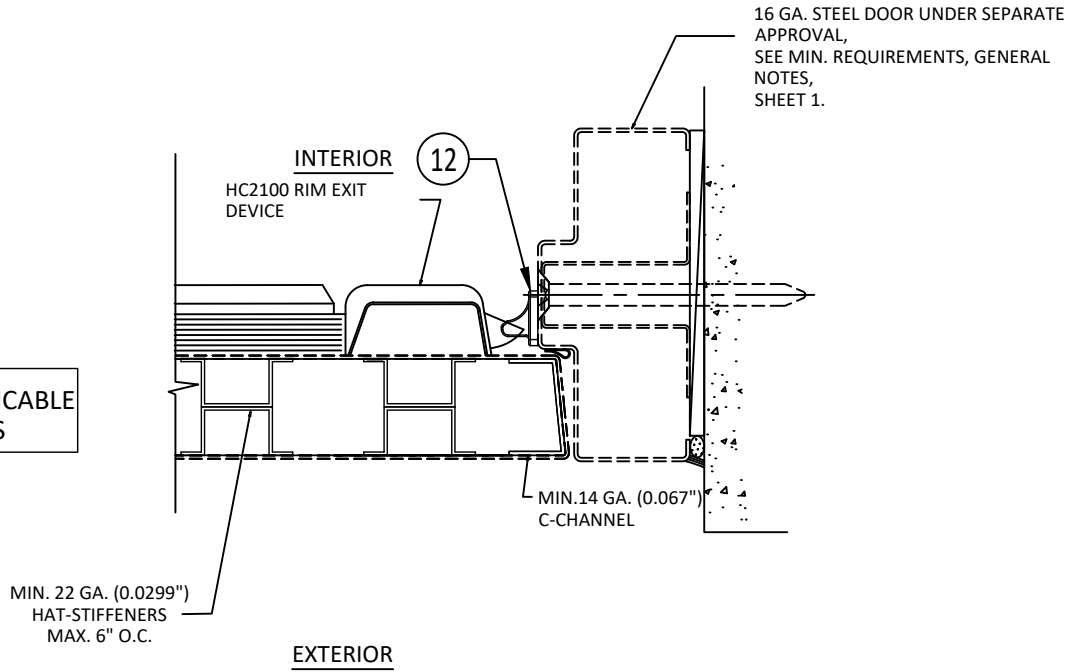


W/(4) X 1/4-20 GR. 5 SMS
OPTIONAL
W/(4) X 1/4-20 GR. 5 SMS

NOTE: SEE SHEET 7 FOR APPLICABLE COMPONENT DETAILS

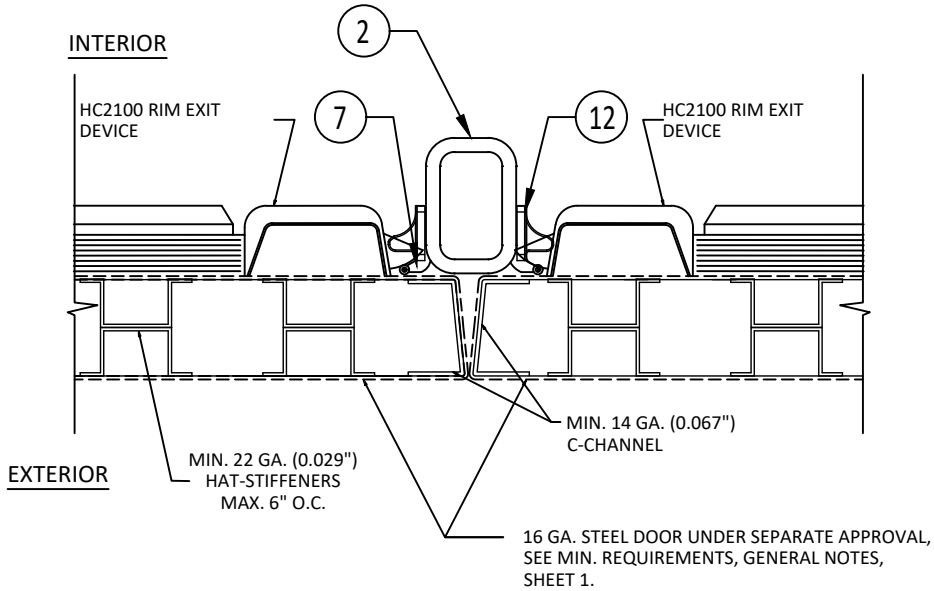


HCK 822 MULLION



EXTERIOR

A HORIZONTAL SECTION 3 HC2100 RIM EXIT SINGLE DOOR APPLICATION



16 GA. STEEL DOOR UNDER SEPARATE APPROVAL, SEE MIN. REQUIREMENTS, GENERAL NOTES, SHEET 1.

B HORIZONTAL SECTION 3 HC2100 RIM EXIT W/ HCK822 MULLION DOUBLE DOOR APPLICATION



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TITLE:
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HC2100 RIM W/ HCK822 REMOVABLE MULL

HC2100 RIM W/ HCK822 MULL

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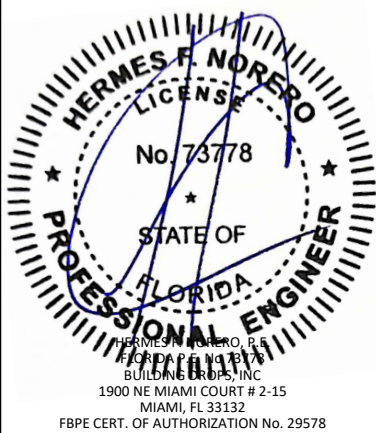
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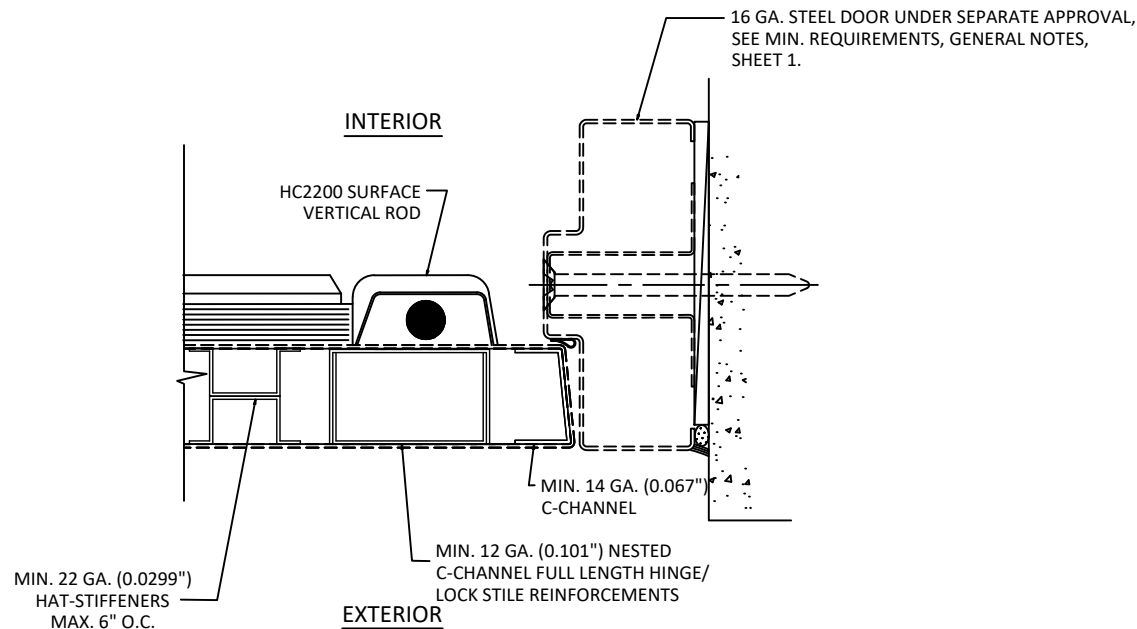
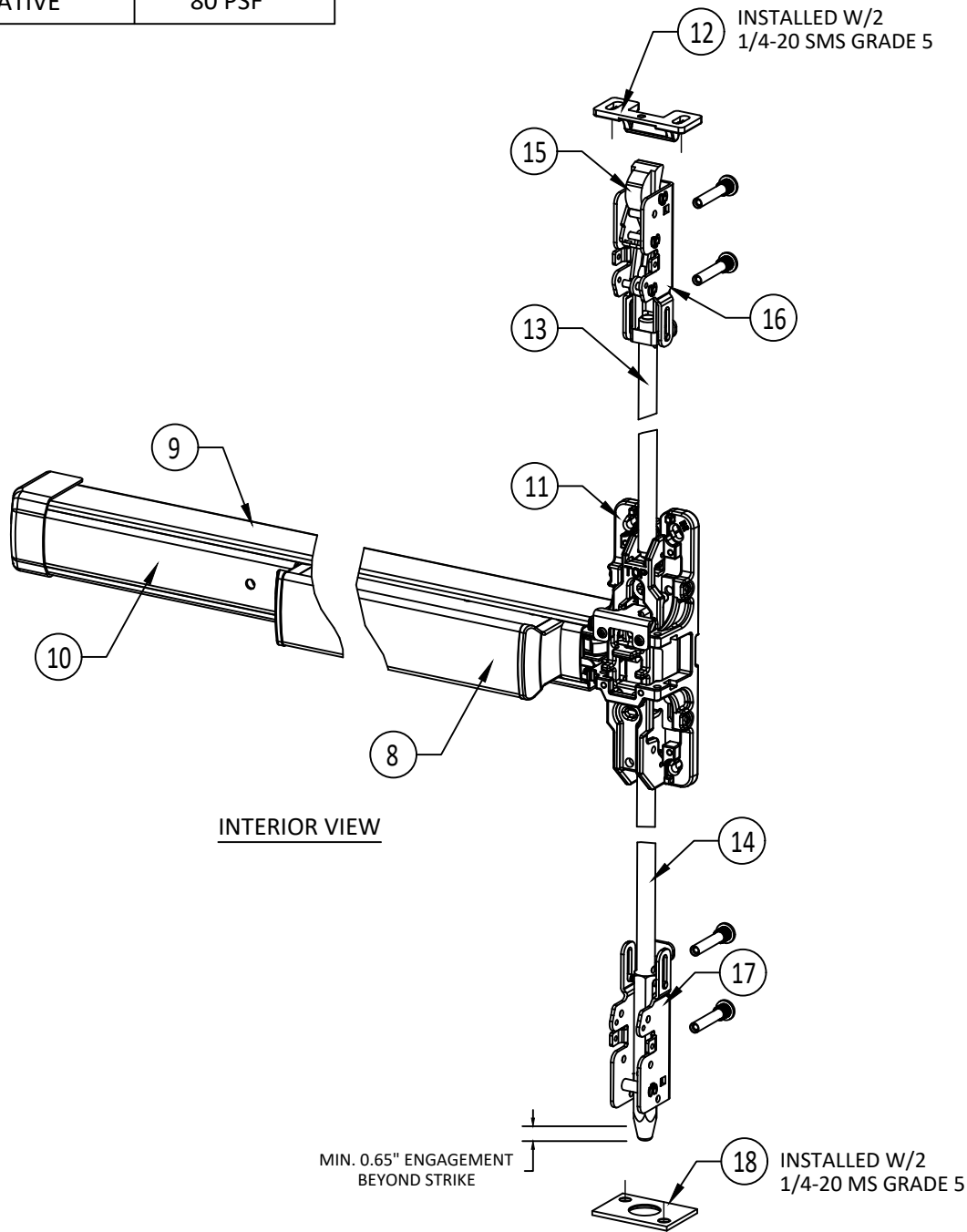


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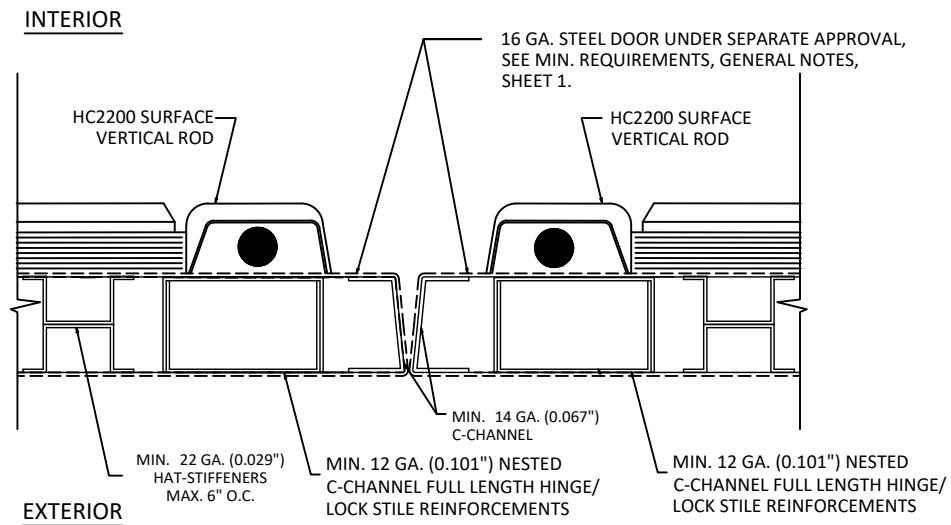
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SHEET:	3

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SERIES HC2200 SURFACE MOUNT VERTICAL ROD EXIT DEVICE (SVR)	
MAX. DESIGN PRESSURE (SINGLE OR DOUBLE DOORS)	
POSITIVE	80 PSF
NEGATIVE	80 PSF



C
4 **HORIZONTAL SECTION**
HC2200 SVR
SINGLE DOOR APPLICATION



D
4 **HORIZONTAL SECTION**
HC2200 SVR
DOUBLE DOOR APPLICATION



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TITLE:
BEST SERIES HC2200, HC2300, H2800 SVR AND
HC2100 RIM W/ HC822 REMOVABLE MULL

HC2200 SURFACE VERTICAL ROD (SVR)

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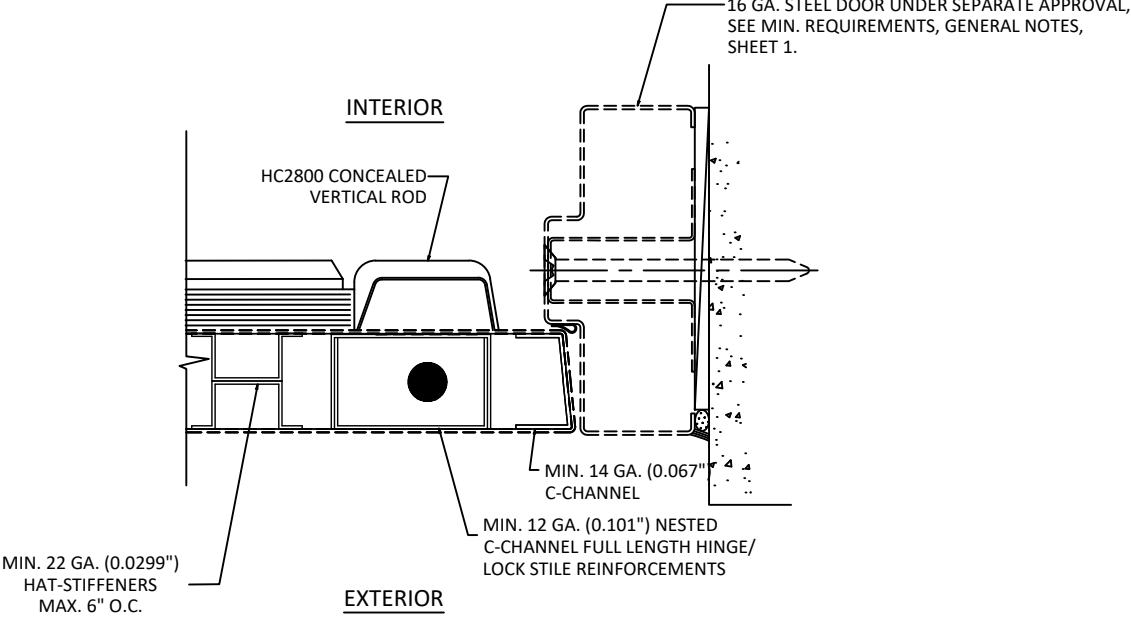
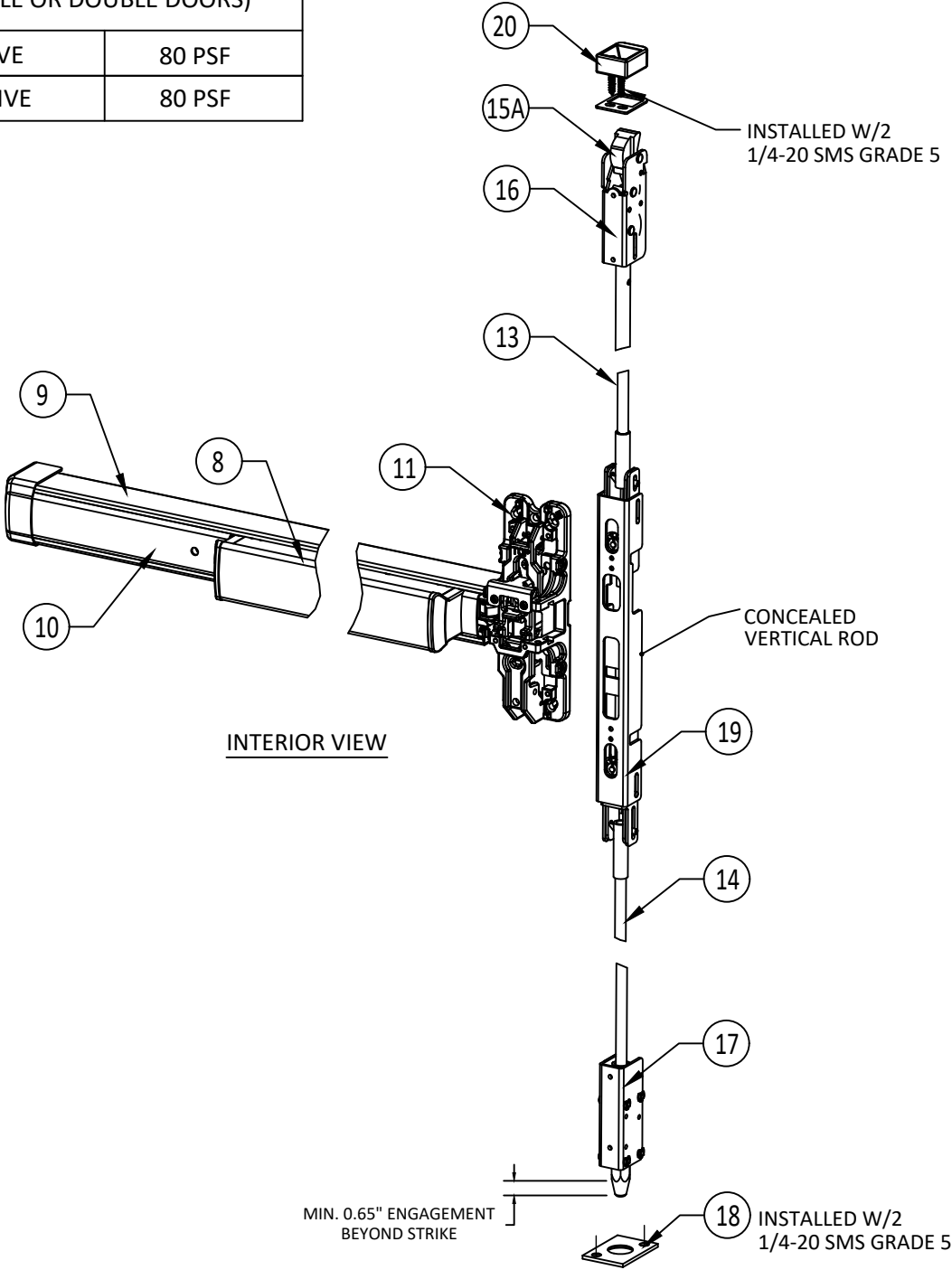
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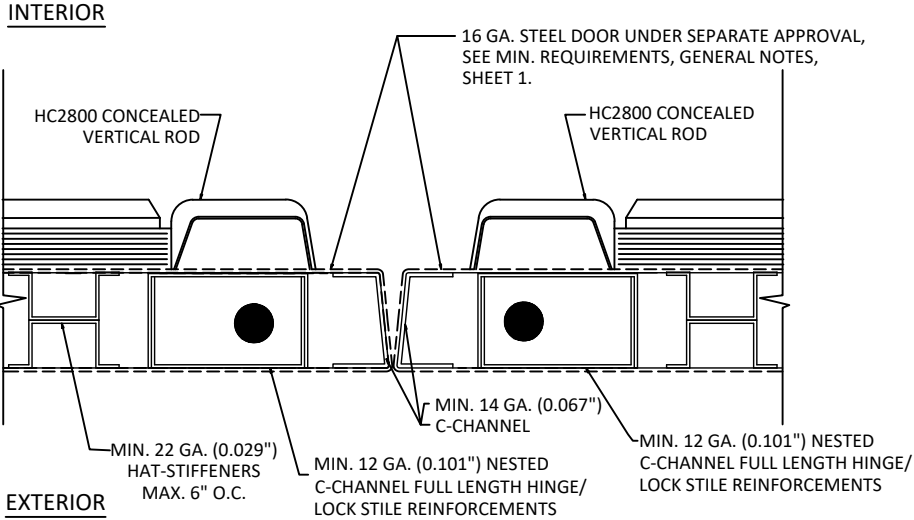
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OF 7

SERIES HC2800 CONCEALED VERTICAL ROD EXIT DEVICE (CVR)	
MAX. DESIGN PRESSURE (SINGLE OR DOUBLE DOORS)	
POSITIVE	80 PSF
NEGATIVE	80 PSF



E
5 **HORIZONTAL SECTION**
HC2800 CVR
SINGLE DOOR APPLICATION



F
5 **HORIZONTAL SECTION**
HC2800 CVR
DOUBLE DOOR APPLICATION

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TITLE:
BEST SERIES HC2200, HC2300, H2800 SVR AND
HC2100 RIM W/ HC822 REMOVABLE MULL

**HC2800 CONCEALED VERTICAL
ROD (CVR)**

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BUILDING DROPS, INC.
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FBPE CERT. OF AUTHORIZATION No. 29578

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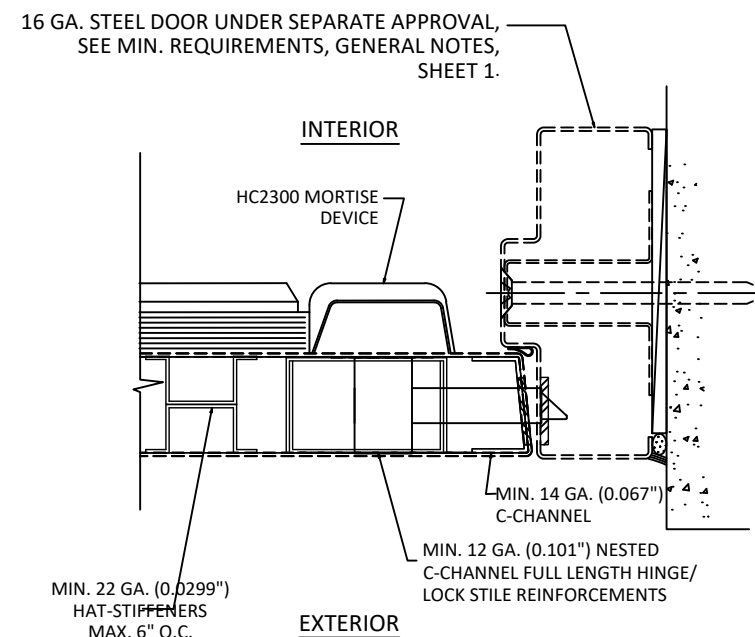
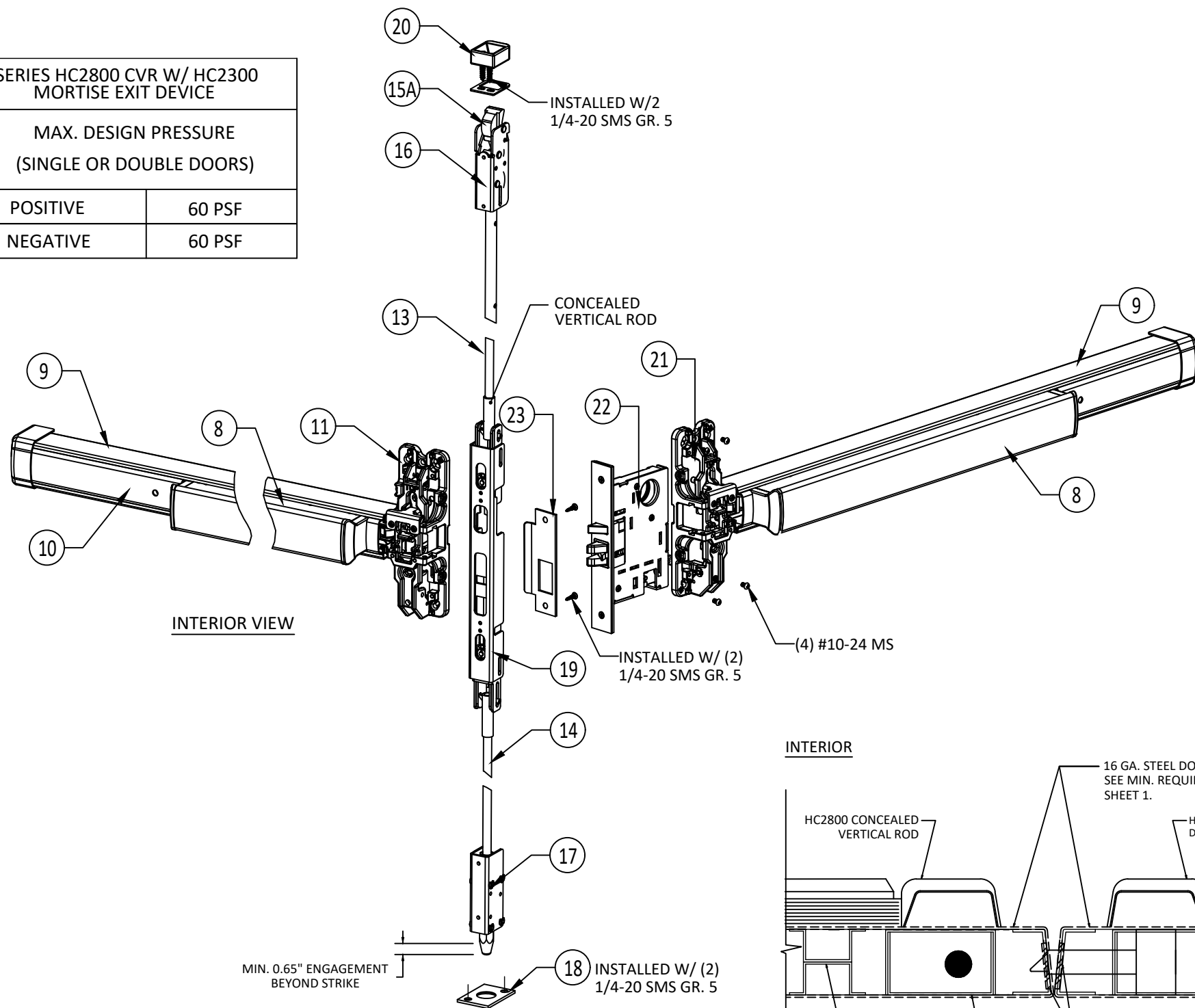
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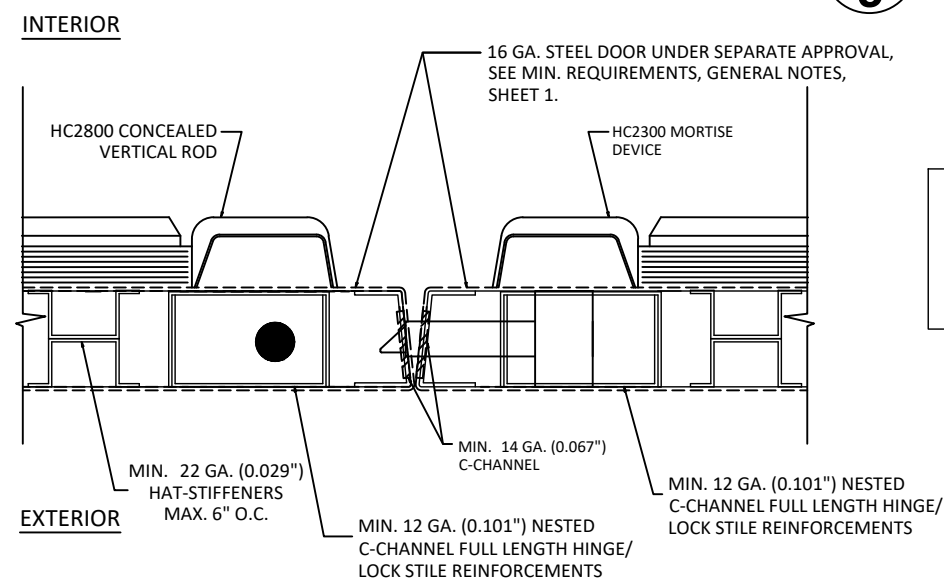
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OF 7



G6 HORIZONTAL SECTION

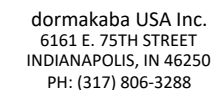
HC2300 MORTISE DEVICE SINGLE DOOR APPLICATION

**NOTE: HC2300 MORTISE PANIC EXIT
MUST BE USED IN
COMBINATIONS WITH HC2800
CVR WHEN USED IN DOUBLE
DOOR APPLICATIONS.**



H **6** **HORIZONTAL SECTION**

HC2800 CVR W/ HC2300 MORTISE DEVICE
DOUBLE DOOR APPLICATION
OR HC2800 CVR ON SINGLE OR BOTH DOOR PANEL



TITLE:
BEST SERIES HC2200, HC2300, H2800 SVR AND
HC2100 RIM W/ HCK822 REMOVABLE MULL

HC2800 CVR W/ HC2300 MORTISE

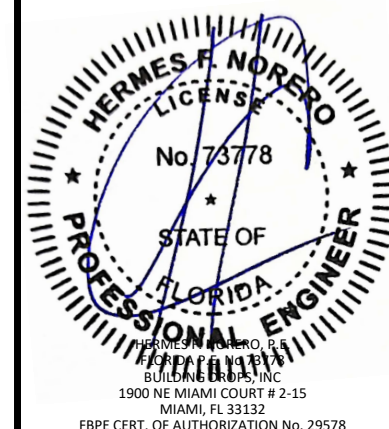
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B.D.
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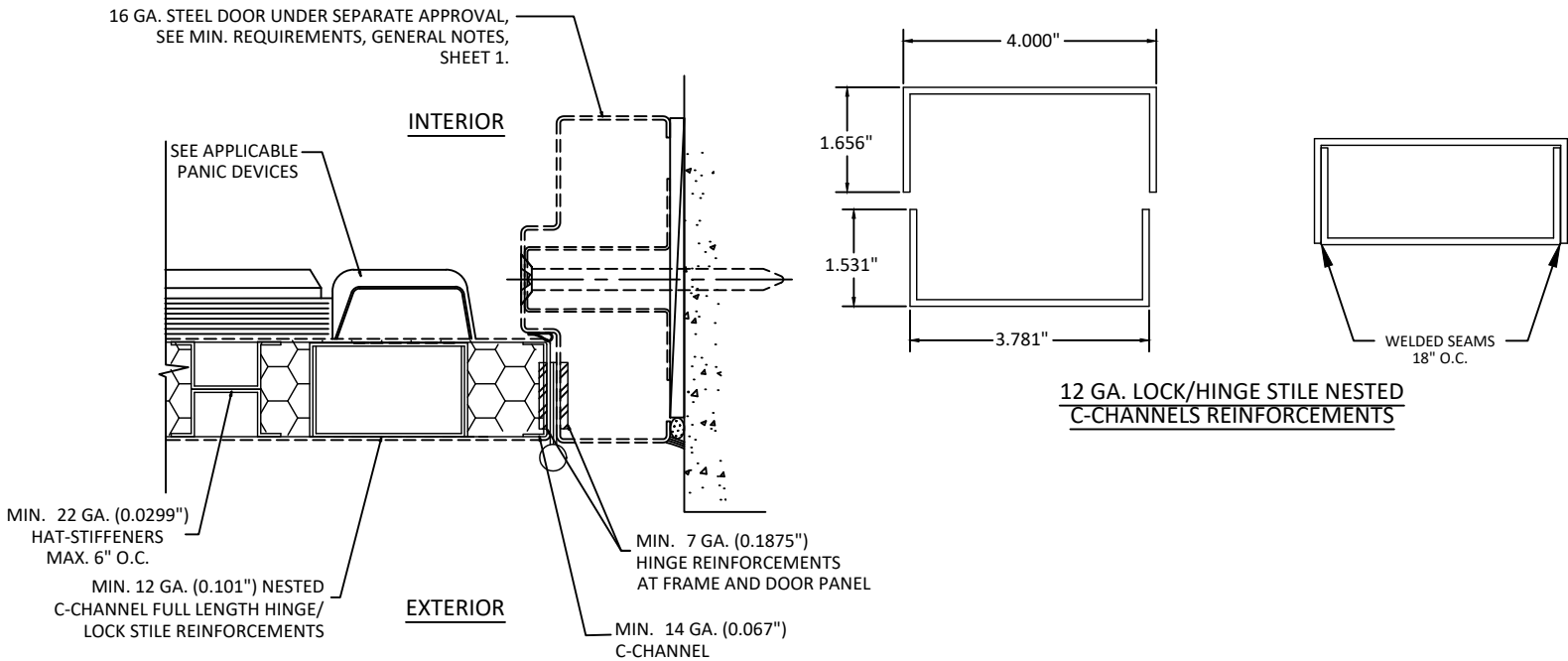
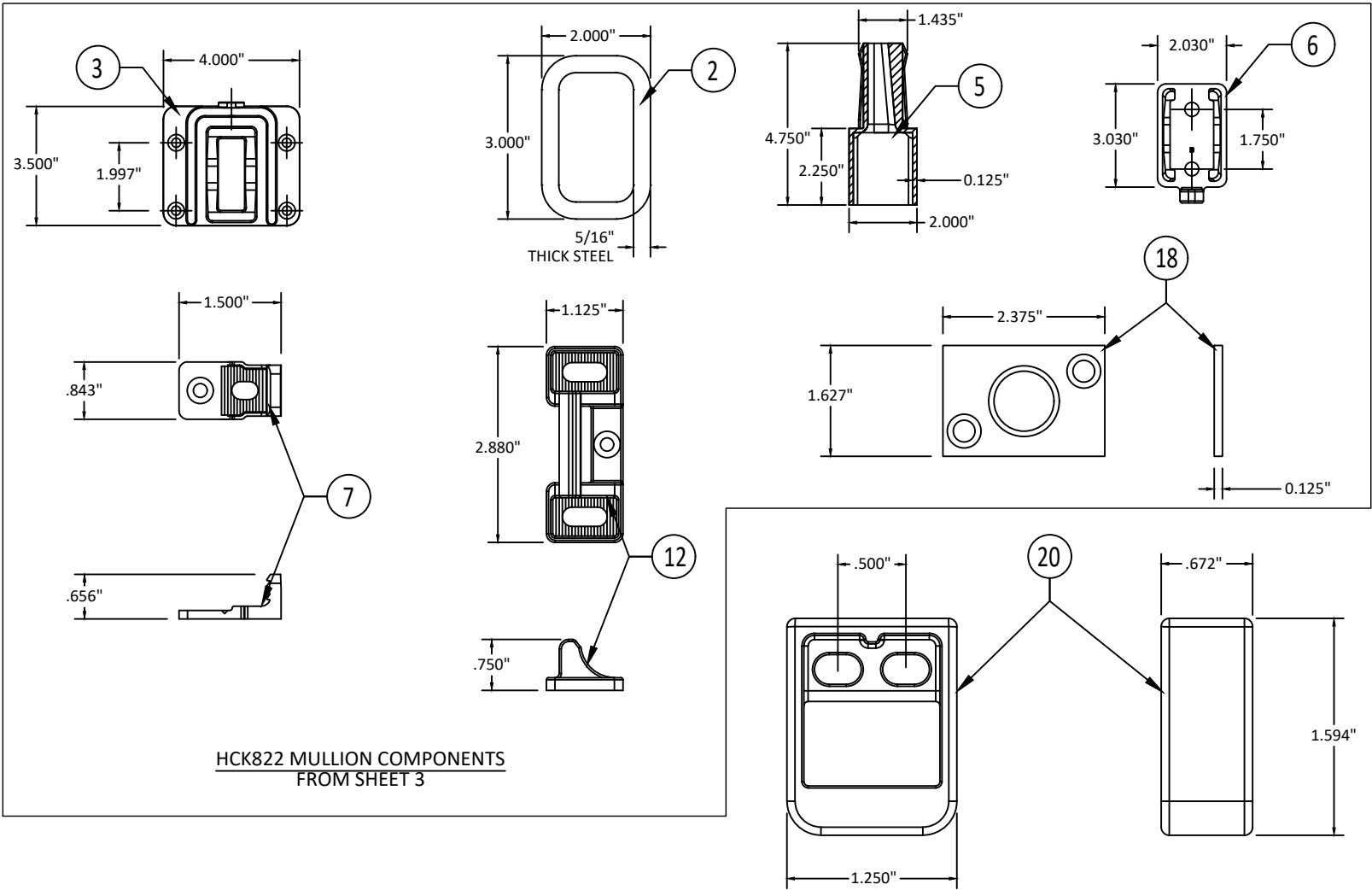
DWG. #: DOR002

SHEET:

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OF 7

Item No.	QTY.	Description	Part No.	Series
1	1	3/4 THROW DEADLOCKING LATCHBOLT		HC2100
2	1	HC822 STEEL MULLIONS (ASTM-A500 STEEL GRADE B OR HIGHER STRENGTH MATERIAL) W/(4) 1/4-20 SS FLAT HEAD SCREWS		HC2100
3	1	HCK822 MULLION CAP W/(1) 1/4-20 SET SCREW & (4) 1/4-20 GR. 5 MACHINE SCREWS		HC2100
4		HCKR822 MULLION ALTERNATE CAP W(4) 1/4-20 GR. 5 MACHINE SCREWS		HC2100
5	2	MULLION FITTING ADAPTER TOP/BOTTOM		HC2100
6	1	MULLION SILL BASE W/ (2) 1/4" HILTI TZ2 EXPANSION ANCHORS W/ 1-3/4" EMB. INTO CONCRETE W/ 3/8" OD, 1/4" ID, 5/16" LONG SPACER & (1) 1/4-20 SET SCREW		HC822
7	1	INTERLOCKING ANGLE W/(1) 1/4-20 & (1) #10-24 MACHINE SCREWS S216	S216	HC2100
8	1	TOUCHBAR ASSEMBLY		HC2100, HC2200, HC2300, HC2800
9	1	DEVICE CHANNEL		HC2100, HC2200, HC2300, HC2800
10	1	HINGE FILLER		HC2100, HC2200, HC2300, HC2800
11	1	ACTIVE CASE W/(4) #10-24 MACHINE SCREWS		HC2100, HC2200, HC2300, HC2800
12	1	STRIKE W/(2) 1/4-20 & (1) 10-24 MACHINE SCREW	S300	HC2100, HC2200
13	1	TOP TOD		HC2200, HC2800
14	1	BOTTOM ROD		HC2200, HC2800
15	1	DEADLOCKING LATCHBOLT W(2) 1/4-20 MACHINE SCREWS & SEX BOLTS		HC2200
15A	1	DEADLOCKING LATCHBOLT W(2) 10-24 MACHINE SCREWS		
16	1	TOP LATCH ASSEMBLY		HC2800
17	1	BOTTOM BOLT ASSEMBLY		HC2200, HC2800
18	1	BOTTOM STRIKE W/(2) 3/8 X 2 1/4" STUD ANCHORS	S460	HC2200, HC2800
19	1	CENTER CHASSIS		HC2800
20	1	TOP STRIKE W(2) #10-24 MACHINE SCREWS	S519	HC2800
21	1	MORTISE ACTIVE CASE W(4) #10-24, (2) 1/4-20 GR. 5 MACHINE SCREWS (SINGLE DOOR ONLY)		HC2300
22	1	MORTISE CASE		HC2300
23	1	STRIKE - MORTISE CURVED LIP W/ (2) 1/4-20 SMS GR. 5		HC2300



1 HORIZONTAL SECTION

7 TYPICAL HINGE STYLE CONSTRUCTION

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BOM & COMPONENTS

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PH: (954) 399-8478

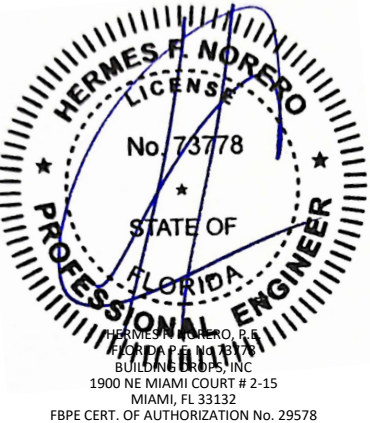
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
FBC 2020 UPDATE	LL	07/22
MULLION UPDATE	DI	04/24

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL16202

DATE: 12.11.18

DWG. BY: SM

CHK. BY: HFN

SCALE: NTS

DWG. #: DOR002

SHEET:

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