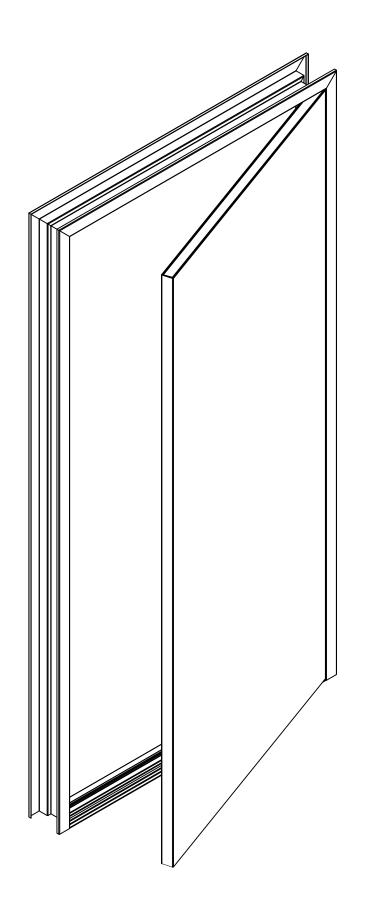
PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ). LARGE MISSILE IMPACT (LMI) - LEVEL "E"

### INSTRUCTIONS FOR USING THIS APPROVAL

- STEP 1: USE THE DOOR ELEVATIONS PROVIDED ON SHEET 2 TO DETERMINE THE APPLICABLE ASSEMBLY NUMBER
- STEP 2: MOVE TO THE CHART BELOW THE DOOR ELEVATIONS, ALSO ON SHEET 2, AND LOCATE YOUR ASSEMBLY NUMBER. BY SCANNING HORIZONTALLY THROUGH THE SAME ROW OF YOUR ASSEMBLY NUMBER, YOU WILL BE ABLE TO DETERMINE THE APPROVED DOOR SERIES, MIN. DOOR GAUGE, MAX. DESIGN PRESSURE, MAX DOOR OPENING, SWINGING OPTIONS, AND LATCHING HARDWARE FOR PANELS.
- STEP 3: USE SHEET 3 TO DETERMINE YOUR FRAMING PROFILE AND FRAMING CONSTRUCTION OPTIONS
- STEP 4: USE THE TABLE(S) ON SHEET 4 TO DETERMINE THE ANCHOR TYPE AND SPACING, BASED ON YOUR PRESSURE AND SUBSTRATE CRITERIA
- STEP 5: USE THE DETAILS PROVIDED ON SHEET 5 AND THE ADDITIONAL WEATHERSTRIPPING NOTES ON SHEET 6 TO DETERMINE YOUR WEATHERSTRIPPING OPTIONS

| SHEET INDEX |   |  |  |  |  |  |  |  |
|-------------|---|--|--|--|--|--|--|--|
| SHEET #     | DESCRIPTION   |  |  |  |  |  |  |  |
| 1           | COVER SHEET   |  |  |  |  |  |  |  |
| 2           | 2 ASSEMBLY OPTIONS  |  |  |  |  |  |  |  |
| 3           | DOOR FRAME OPTIONS  |  |  |  |  |  |  |  |
| 4           | DOOR FRAME ANCHORING INFORMATION                            |  |  |  |  |  |  |  |
| 5           | WATER INFILTRATION DOOR FRAME WEATHER STRIPPING INFORMATION |  |  |  |  |  |  |  |
| 6           | MANUFACTURERS' NOTES  |  |  |  |  |  |  |  |



**CHIDDIES** 

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COMMERCIAL STEEL EXTERIOR DOOR ASSEMBLIES FLUSH SINGLE DOORS FBC SIXTH EDITION (2017) FLORIDA PRODUCT APPROVAL #32087.2 Curries

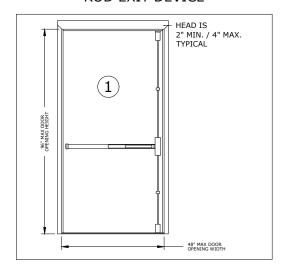
Division of ASSA ABLOY Door
1502 12th NE
Mason City, Iowa 50

| SCALE: N | SCALE: N     | DESCRIPTION ORIGINAL ISSUE Revise to reflect ASCE 7-15, Honds Building code (2020)  | DRWN CHKD Rattay Rattay Rattay Rattay | ORWN CHKD D/<br>Rattay Rattay 03/.7 | D/<br>11/2 |
|----------|--------------|---|---------------------------------------|-------------------------------------|------------|
| NTS (    |              |   |                                       |                                     |            |
| JNLES    |              |   |                                       |                                     |            |
| SN       | -            | 1   | ,                                     | ı                                   |            |
| IOI      | ,            | 1   | ,                                     | ,                                   |            |
| ED       | THE IN DIVIS | THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CL<br>DIVISION OF ASSA ABLOY OR GROUP, INC. ANY REPRODUCTION IN PART OR<br>WALCHE ASSA ABLOY OF THE WIND THE WIND THE ACTUAL OF THE WIND THE | S THE SOLE                            | TION IN PA                          | OF CU      |

RD1230 1 of 6

PRODUCTS ILLUSTRATED IN THIS DOCUMENT ARE QUALIFIED FOR LARGE AND SMALL MISSILE IMPACT. LARGE MISSILE IMPACT IS 9 LB 2 X 4 AT 80 FEET PER SECOND OR 895 FT-LBS. (MISSILE LEVEL E) PRODUCT MEETS REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE.

# SURFACE VERTICAL ROD EXIT DEVICE

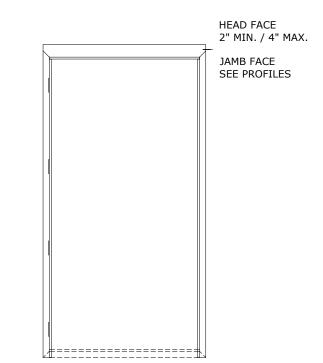


|  | ASSEMBLY 1  Design Pressure  Where Water  Where Water |             |  |  |  |  |  |  |
|--|---|-------------|--|--|--|--|--|--|
|  |   |             |  |  |  |  |  |  |
|  | Where Water   | Where Water |  |  |  |  |  |  |
| Infiltration is NOT   Infiltration is IS |   |             |  |  |  |  |  |  |
|  | Required  | Required    |  |  |  |  |  |  |
|  | ±150 PSF  | ±50 PSF     |  |  |  |  |  |  |

| Assembly | Door Series        | Minimum<br>Door Gauge  | Maximum Design<br>Pressure (psf) |                 | Maximum Door<br>Opening (inches) |       | Door Swing | Latching Hardware Description |      |       |       |  |
|----------|--------------------|--|----------------------------------|-----------------|----------------------------------|-------|------------|-------------------------------|------|-------|-------|--|
| _        |                    |  | Door Gauge                       | Positive        | Negative                         | Width | Height     |                               | Туре | Brand | Model |  |
| 1        | 707, 747, 847      | 707, 747, 847 14 150 150 48 96 Out-Swing Surface Vertical Rod Sargent HC4  |                                  | HC4-8700 Series |                                  |       |            |                               |      |       |       |  |
|          | Butt               | Minimum 4-1/2" x 4-1/2" x 0.134" minimum thick steel or stainless steel hinges; any FBC approved hinges; any SDI member hinge locations; Electrolynx or QC concealed plug connector is optional  |                                  |                 |                                  |       |            |                               |      |       |       |  |
| Hinges   | Continuous         | Markar FM300, FM3500 continuous stainless steel; Pemko FMSLFHD, FMSLIHD continuous aluminum; any FBC approved continuous hinge   |                                  |                 |                                  |       |            |                               |      |       |       |  |
|          | Pivot              | Any FBC approved pivot hinge   |                                  |                 |                                  |       |            |                               |      |       |       |  |
|          | Auxiliary Hardware | Door Position Switch (DPS): Securitron DPS-M or any FBC approved DPS having maximum 1" diameter preparation or fits in a cutout measuring a maximum 1.25" x 4.875 Electric Power Transfer (EPT): Securitron CEPT, EPTL, ICPT, SEPT or any FBC approved EPT; Magnetic Lock (maglock): any FBC approved magnetic lock (surface moushear) in addition to the hardware listed above; Viewers: any with 1" maximum hole preparation |                                  |                 |                                  |       |            |                               |      |       |       |  |

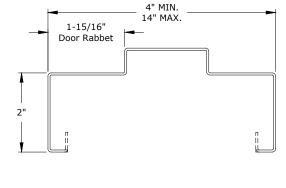
|                   |                  | C          |   | J            | F                      | \$                      | R     | }   | E                  | S  |
|-------------------|------------------|------------|---|--------------|------------------------|-------------------------|-------|---|--------------------|--|
| 1                 | 4                | S          | S                                       | Δ            | 1                      | A                       | В     | BL  | C                  | Y  |
|                   |                  |            |   |              |                        |                         |       |   |                    |  |
|                   |                  |            |   |              |                        |                         |       |   |                    |  |
|                   |                  |            |   |              |                        |                         |       |   |                    |  |
|                   |                  | pe<br>d    |   |              |                        |                         |       |   |                    | rld  |
| -                 | CHRIDO           |            | Division of ASSA ABLOY Door Group, Inc. | 1502 12th NF | Macop (1+1, Town FOA01 | Masoll City, 10Wa 30401 |       | COMMERCIAL STEEL EXTERIOR DOOR ASSEMBLIES | FLUSH SINGLE DOORS | FBC SIXTH EDITION (2   |
| DRWN CHKD DATE    | Rattay 03/20/20  | y 11/24/20 | 1                                       |              | 1                      |                         |       |   |                    | TY OF CURRIES,<br>PART OR AS A<br>HIBITED  |
| N CHK             |                  | Rattay     | '                                       |              | '                      | '                       | '     | '   | '                  | E PROPER<br>ICTION IN  |
| DRWI              | Rattay           | Rattay     | ,                                       |              | ,                      | ,                       | ,     | ,   |                    | IS THE SO<br>Y REPRODU   |
| S REV DESCRIPTION | - ORIGINAL ISSUE | A (2020)   | 1                                       | 1            | 1                      | 1                       | 1     | 1   | 1                  | THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CURRIES, DIVISION OF ASSA ABOY DOOR SROUP, INC. ANY REPRODICTION IN PART OR AS A WHO! F WITHOUT THE WRITTEN PERMISSION OF CHRRIES IS PROHIBITED. |
| SC                | AL               | E:<br>#:   | _                                       | NT           | s t                    | JNI<br>D                | ES 12 |   | 30                 | ΓED  |
| SH                | EE               | T:         |   |              |                        | 2                       | OF    | - (                                       | 5                  |  |

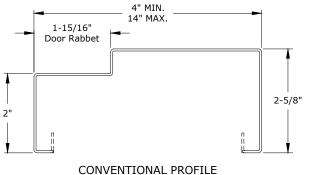
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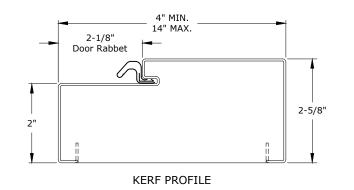
 $4080 \pm 150$  PSF MAX. DESIGN PRESSURE 4" MIN. / 14" MAX. DEPTH KD CORNER 16 GA. MIN. / 14 GA. MAX. WELDED CORNER 16 GA. MIN. / 12 GA. MAX. FOUR SIDED DOOR FRAME WITH WELDED CORNERS ALSO PERMITTED

FRAME PROFILES

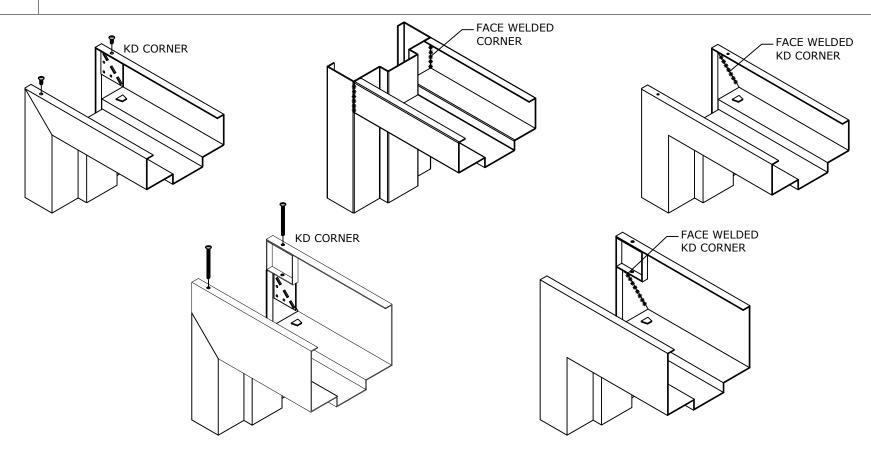




4" MIN. 14" MAX. 2-1/8" Door Rabbet



FRAME CONSTRUCTION OPTIONS



## **CURRIES**

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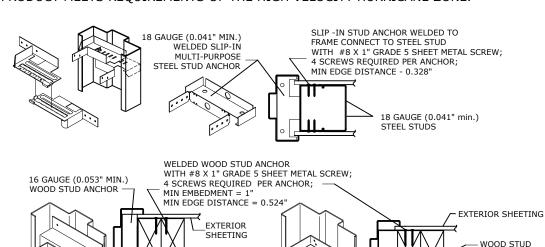
COMMERCIAL STEEL EXTERIOR DOOR ASSEMBLIES FLUSH SINGLE DOORS FBC SIXTH EDITION (2017) FLORIDA PRODUCT APPROVAL #32087.2 Curries n of ASSA ABLOY Door Group, Inc. 1502 12th NE Mason City, Iowa 50401 Division of

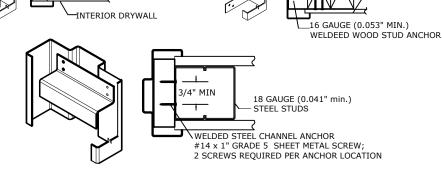
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SHEET: 3 of 6

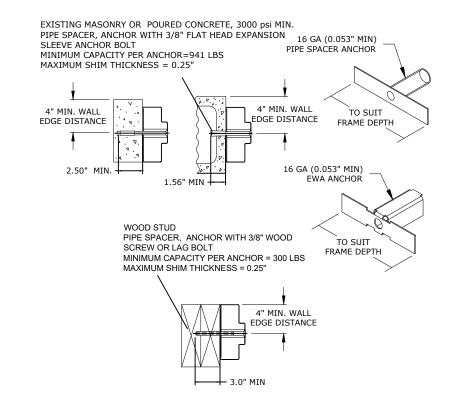
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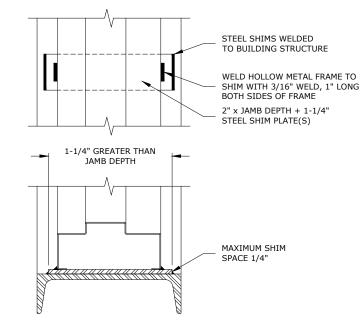




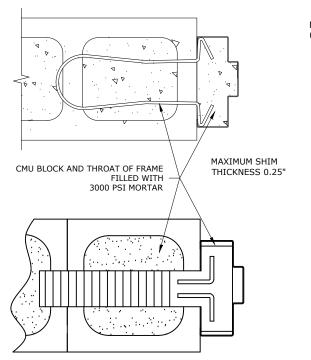
#### **Jamb Anchor Requirements**

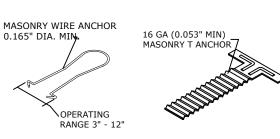
| Anchor Type                             | Opening<br>Width            | Opening<br>Height          | Anchor Quantity | Maximum<br>Spacing |
|---|-----------------------------|----------------------------|-----------------|--------------------|
|   | 4'0" maximum                | 7'0" maximum               | 6               | 12"                |
| Steel Stud or Wood Stud<br>Wall Anchors | 3'6" maximum                | 7'6" maximum               | 7               | 12"                |
| wall Alichors                           | Over 3'6"';<br>4'0" maximum | over 7'6";<br>8'0" maximum | 8               | 12"                |
| Masonry Anchors with $\frac{3}{8}$ "    | 4'0" maximum                | 7'6" maximum               | 4               | 24"                |
| Expansion Shell Anchor Bolt             | 4'0" maximum                | over 7'6"'<br>8'0" maximum | 5               | 24"                |
| Masonry "T" or Wire Anchors             | 4'0" maximum                | 8'0" maximum               | 5               | 24"                |
| Welded to Building Structure            | 4'0" maximum                | 8'0" maximum               | 4               | 24"                |

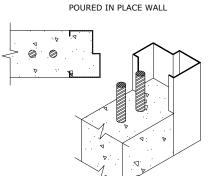




16 GA. MIN. - 1/4" MAX. THICK A-36 STEEL SHIMS CENTERED UNDER FRAME. WELD SHIMS TO STRUCTURAL BUILDING MEMBER WITH FILLET WELDS MEASURING 2" LONG USING E6018 ELECTRODES. FILLET WELD SIZE SAME AS SHIM THICKNESS FOR 0.053" TO 0.125" SHIM THICKNESS. FILLET WELD SIZE 1/8" FOR >0.125" TO 1/4" SHIM THICKNESS.







# **CURRIES**

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> COMMERCIAL STEEL EXTERIOR DOOR ASSEMBLIES FLUSH SINGLE DOORS FBC SIXTH EDITION (2017) FLORIDA PRODUCT APPROVAL #32087.2 Inc. Group, of ASSA ABLOY Do 1502 12th NE Mason City, Iowa Division

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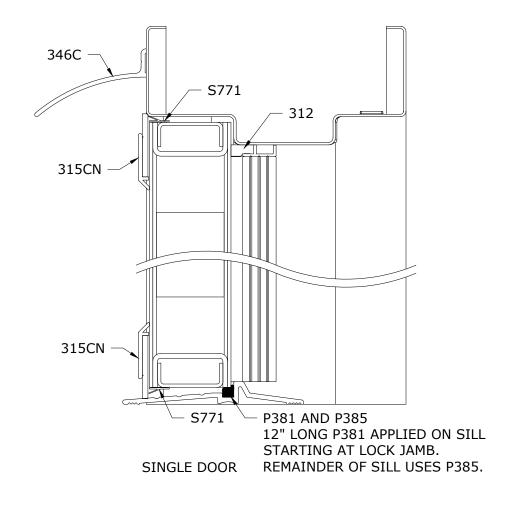
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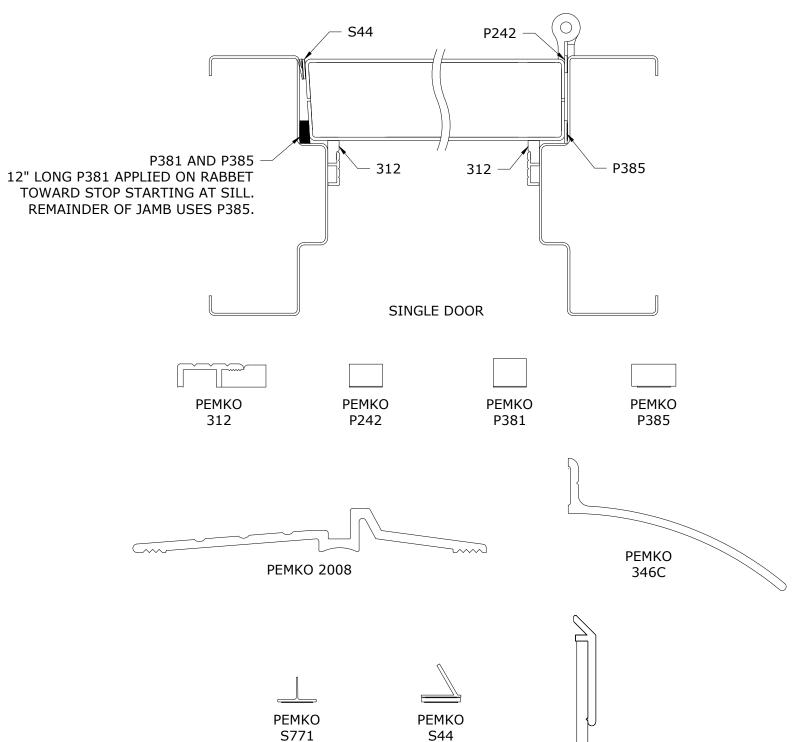
DWG #: SHEET:

4 of 6

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PEMKO WEATHERSTRIP USED ON CECO DOORS AND FRAMES WHERE WATER INFILTRATION IS REQUIRED.





PEMKO 315CN **CURRIES** 

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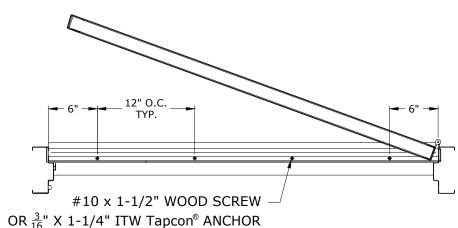
Division of ASSA ABL 1502 13 Mason City, I

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RD1230
5 OF 6

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COMMERCIAL STEEL EXTERIOR DOOR ASSEMBLIES FLUSH SINGLE DOORS FBC SIXTH EDITION (2017) FLORIDA PRODUCT APPROVAL #32087.2



TYPICAL THRESHOLD MOUNTING DETAIL

#### **GENERAL NOTES**

- 1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SIXTH EDITION (2020), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS. LARGE MISSILE IMPACT IS QUALIFIED FOR MISSILE LEVEL E.
- 2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
- 3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. DESIGN PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-16 AND OF THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
- 4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- 5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- 6. THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS IS OUTSIDE THE SCOPE OF THIS CERTIFICATION AND SHALL BE VERIFIED BY OTHERS. OPTIONAL WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- 7. ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS OTHERWISE NOTED.
- 8. ALL COLD ROLLED STEEL SHALL BE A568/A568M AND ALL STAINLESS STEEL SHALL BE ASTM A480/A480M, UNLESS OTHERWISE NOTED.
- 9. HARDWARE SHALL BE INSTALLED PER MANUFACTURERS' INSTRUCTIONS.
- 10. ALL BOLTS AND WASHERS (EXCLUDING INSTALLATION ANCHORS) SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI, U.O.N.
- 11. PLASTIC COMPONENTS USED WITHIN THE HVHZ MUST MEET ALL APPLICABLE FIRE/SMOKE/UV PERFORMANCE REQUIREMENTS AS SET FORTH IN THE ABOVE-NOTED BUILDING CODE AND SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AS REQUIRED.
- 12. ALL DISSIMILAR MATERIALS SHALL BE PAINTED, PLATED, OR OTHERWISE PROTECTED FROM CORROSION. ALL WOOD SHALL BE PROTECTED FROM EXPOSURE AND FROM CONTACT WITH DISSIMLAR MATERIALS.
- 13. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATION ARE INTENDED.
- 14. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- 15. PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING ONE OF THE FOLLOWING:

#### DOOR:

UL CLASSIFIED LOGO

UL ASSIGNED FILE NUMBER (R38809)

COMPLIMENTARY CLASSIFICATION (EXTERIOR SWINGING DOOR)

**IMPACT RATING** 

**DESIGN LOAD RATING** 

CLASSIFIED IN ACCORDANCE WITH ASTM E330/E330M, ASTM E1886, ASTM E1996, TAS-201, TAS-202, TAS-203

#### FRAME:

UL CLASSIFIED LOGO

UL ASSIGNED FILE NUMBER (R38809)

COMPLIMENTARY CLASSIFICATION (DOOR FRAME)

**IMPACT RATING** 

**DESIGN LOAD RATING** 

CLASSIFIED IN ACCORDANCE WITH ASTM E330/E330M, ASTM E1886, ASTM E1996, TAS-201, TAS-202, TAS-203

### ADDITIONAL FRAME INFORMATION

- 1. BUILDING WALLS MUST BE DESIGNED TO SUPPORT AND SUSTAIN LOADS DEVELOPED BY THE DOOR AND FRAME ASSEMBLY AND TRANSFER LOADS TO THE BUILDING STRUCTURE.
- 2. ROUGH OPENING MATERIAL, BY OTHERS, MUST BE INSTALLED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- 4. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 5. WOOD DENSITY, G = 0.55.
- 6. ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN IN THE TABLE FOR EACH GROUP OF PRODUCTS.
- 7. SUBSTITUTION OF COMPONENTS MUST BE IN COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODE.
- 8. IT IS RECOMMENDED THAT THE GAUGE OF THE FRAME BE EQUAL TO OR GREATER THAN THAT OF THE DOOR.

#### ADDITIONAL WEATHERSTRIPPING INFORMATION

WHERE WATER INFILTRATION IS NOT REQUIRED, THE FOLLOWING PEMKO WEATHERSTRIP MAY BE USED.

PERIMETER SEALS: (SCREW APPLIED SEALS TO BE MOUNTED TO THREAT SIDE OF ASSEMBLY ONLY)

18041NB, 18061NB, 18062NB, 18100NB, 18137NB, 18175NB, 18250NB, 18400NB, 18950NB, 283200NB, 285PK, 285R, 2891PK, 2891S, 2891V, 2892V, 2893V, 2902V, 2903V, 290PK, 290S, 290V, 293100NB, 29310NB, 29310PK, 29310PK, 29310S, 29310V, 29313PK, 29324NB, 29326NB, 29344NB, 29346NB, 29366NB, 294V, 296PK, 296R, 296S, 297PK, 297S, 297V, 303PK, 303S, 303V, 305R, 305S, 306Q, 306V, 309P, 312R, 315BR, 315CN, 315SSR, 316PK, 316S, 316V, 319N, 319R, 319S, 321N, 322N, 322PK, 322SN, 322SPK, 329N, 330ES, 330V, 332R, 332S, 332SSR, 3452NB, 345NB, 35041NB, 35061NB, 350PK, 350R, 350SPK, 350SR, 368N, 375R, 379PK, 379R, 379S, 45041NB, 45061NB, 45062NB, 45100NB, 45137NB, 45175NB, 45250NB, 45400NB, 5041NB, 5061NB, 90062NB, 90100NB, 90137NB, AM44, AM88, P242, P261, P266, P381, P385 PF114, PK33, PK52, PK55, Q102, Q103, Q106, Q107, Q108, S104, S105, S109, S44, S442, S52, S77, S771x6, S773, S776, S88, S99

#### THRESHOLDS:

2005, 2008, 2705\_T, 2715, 2716, P255



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CUFFICES

y Rattay 03/20/20
y Rattay 11/24/20
Division of ASSA ABLOY Door Group, Inc. 1502 12th NE 1502 12th NE Mason City, Iowa 50401

COMMERCIAL STEEL EXTERIOR DOOR ASSEMBLIES FLUSH SINGLE DOORS
FLUSH SINGLE DOORS
FROMERCIAL STEEL EXTERIOR DOOR ASSEMBLIES FLUSH SINGLE DOORS
FROM FROM STORY APPROVAL #32087.2

SCRIPTION

SCALE:

RD1230 6 OF 6