



## AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report(s). This authorization also applies to the Multiple Listee model(s) identified on the correlation page of the Listing Report.

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**Evaluation Center:** Intertek (Middleton)

**Control/Client Number:** 242757

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**Intertek**



This document supersedes all previous Authorizations to Mark for the noted Report Number.

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|                             |   |
|-----------------------------|---|
| <b>Testing Standard(s):</b> | ASTM E330 (2002), ASTM E331 (2000), ASTM E1886 (2002), ASTM E1996 (2003), ANSI A250.13 (2003), TAS 203, TAS 201, TAS 202, ASTM E1886 (2005), ASTM E1996 (2008), ASTM E331 (2009), |
| <b>Product:</b>             | Ceco Volume IVA - Windstorm Frame Specs   |

**ATM for Report:** 3118505, 3126983, 3159480, 3159865, 3163505,  
 3190362MID-002, Letter Report 100407338, 100407338MID-003, Letter  
 Report 100545411, 100545411MID-003, Letter Report 100859994,  
 100859994MID-003, 101343015MID-001, 101274930MID-003,  
 101274930MID-004, 102050876MID-001

**ATM Issue Date:** 07/25/2017

|   |   |  |
|---|---|--|
| <p>AUTHORIZATION<br/>STAMP</p>  <p>Intertek</p> <p>2/12/14</p> |  <p><b>Ceco Door</b></p> <hr/> <p><b>ASSA ABLOY</b></p> <p>ALL LOCATIONS</p> | <p>VOLUME: 4</p> <p>SECTION: 11</p> <p>PAGE: 1</p> |
|---|---|--|

## WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE

### PRODUCT DESCRIPTION

**Product Covered:** Wind resistant building components tested to one or more of the following windstorm or severe weather performance standards:

1. Windstorm Resistant Frames as tested in accordance with ANSI A250.13
2. ASTM E330/E1886/E1996
3. TAS201, TAS202, TAS203

Frames may also be listed as fire door frames tested in accordance with UL10B or UL10C. Frames may be fire rated up to and including three hours. The construction details and hardware preparations for these frames shall comply with Procedure Sections "A thru H".

**Frame Sizes:** Listed sizes are defined in the illustrations that follow.

**Construction:** Each wind resistant building component shall be constructed as detailed in the illustrations that follow. For design features not covered in this section, see Sections "A thru H".

**Metal Gauges:** The frame metal gauges shall have the minimum thickness as shown in the Illustrations to follow.



**Painting:** See "Section General" for specifics on painting.

**Marking:** Each wind-resistant building component shall be marked in accordance with the details on Illustration 7. Fire rated components will be marked in accordance with the individual product sections of this procedure.

**Installation Instructions:** See ANSI A250.11 for installation instructions.

**Hardware:** For listed hardware, see Building Materials Directory Guide.

**Water Infiltration:** Single outswing and standard outswing pairs of 3 piece, sidelite, transom, or transom/sidelite frames in masonry, block, welded to building structure, or drywall. Tested to ASTM E331 in accordance with Florida TAS 202, single swing doors achieved  $\pm 50$  psf design pressure and pairs achieved  $\pm 60$  psf design pressure. Maximum door opening size 4'0" x 8'0" single and 8'0 x 8'0 pair. Rim exit required for pairs with hardware mullion. Any approved locking/exit hardware (for single doors) may be used in a pair with hollow metal mullion (10 gauge "I" beam reinforcement required in hollow metal mullion). See Illustrations # 6B and 6C for Weather Strip installation instructions for location and installation of seals, rain drip, and threshold. For transoms and sidelites, glass should be set from the interior. Glass and glazing stops should be set into a bedding of Dow 995 silicone. Panels should be set from the exterior and welded to the frame with welds located 3" from each end and 12" on center, and the top and bottom 3" from each end and at the midspan with  $\frac{1}{4}$ " x  $\frac{1}{2}$ " long welds. The perimeters of panels should be sealed on the interior and exterior with silicone.

|  |  |   |
|--|--|---|
| AUTHORIZATION<br>STAMP<br><br>Intertek<br><i>JA</i> 2/12/14 | <br><b>Ceco Door</b><br><hr/> <b>ASSA ABLOY</b> | VOLUME: 4<br><br>SECTION: 11<br><br>PAGE: 2 |
|  | ALL LOCATIONS  |   |

**WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE**

**INDEX OF ILLUSTRATIONS**

**WINDSTORM RESISTANT FRAMES**

| DESCRIPTION   | ILLUSTRATION NO. |
|---|------------------|
| Door Frame Elevation  | 1                |
| Door Frame Elevation – Ready Set Frames                         | 1A               |
| Three Piece Frame   | 1B               |
| Sidelite Frame Elevations                                       | 2                |
| Window Frame Elevations   | 3                |
| “I” Beam Construction Details                                   | 3A               |
| Alternate Frame Elevations                                      | 4                |
| KD Corner Frame Assembly  | 5                |
| Strike Reinforcement for Rim Exit Openings Larger Than 3’0”     | 5A               |
| Surface Vertical Rod Reinforcement for ±70 psf Pairs with Glass | 5B               |
| Stud Wall Frame Anchors   | 6                |
| Masonry Wall Frame Anchor                                       | 6A               |
| Water Infiltration Preparations – Single Swing                  | 6B               |
| Water Infiltration Preparations – Standard Swing Pair           | 6C               |

**MARKING**

| DESCRIPTION  | ILLUSTRATION NO. |
|--------------|------------------|
| Label Detail | 7                |

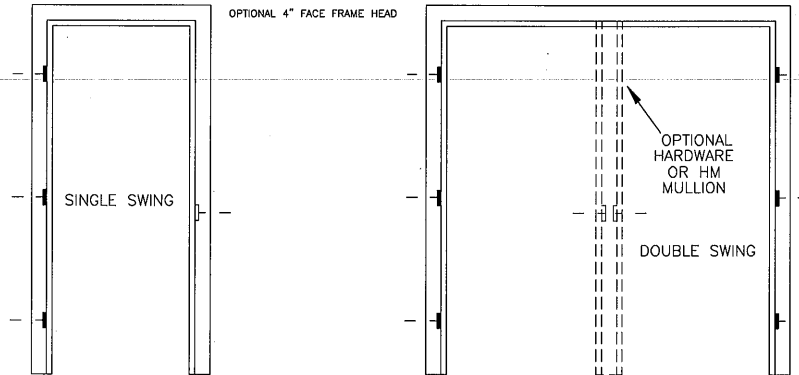
# WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE

**DRAWN BY: JRB**

**ALL LOCATIONS**

**PROJECT REF: TS13CL05**

F0260 R1



3070 ± 100 PSF MAX. DESIGN LOAD  
 4080 ± 70 PSF MAX. DESIGN LOAD  
 4" MIN./14" MAX. DEPTH  
 16 GA. MIN.  
 KD OR WELDED (12 GA. WELDED)  
 IMPACT RATING = 350 FT-LBF

8080 MAX.  
 4" MIN./14" MAX. DEPTH  
 16 GA. MIN.  
 KD OR WELDED (12 GA. WELDED)  
 DESIGN LOAD = +/-70 PSF  
 IMPACT RATING = 350 FT-LBF

| ANCHORS & METHOD OF ATTACHMENT   |  |
|--|--|
| ANCHOR TYPE  | *LOCATION  |
| EO - PIPE & SLEEVE<br>(BUTTERFLY UP TO 3070 MAX.)<br>WOOD BUCK<br>3/8" X 6" LAG SCREW          | 12" MAX. FROM EACH<br>END & 19" O.C.                 |
| EO - PIPE & SLEEVE<br>(BUTTERFLY UP TO 3070 MAX.)<br>MASONRY BUCK<br>3/8" X 6" EXPANSION SHELL | 12" MAX. FROM EACH<br>END & 19" O.C.                 |
| MASONRY "T" - GROUTED<br>(Head: 3/8" x 6" Expansion Shell)                                     | 16" - 24" O.C.<br>@ GROUT JOINTS                     |
| WIRE MASONRY - GROUTED<br>(Head: 3/8" x 6" Expansion Shell)                                    | 16" - 24" O.C.<br>@ GROUT JOINTS                     |
| WOOD STUD<br>METAL STUD<br>(NO FLOOR ANCHORS)  | 6", 6" & EQUAL - 21" MAX.<br>FOR INTERMEDIATE SPACES |
| Poured In Place Wall   | NA   |

| Trio & Trio-E Opening<br>**Sizes Over 6070 Pairs  |    |
|---|----|
| LOCATION  |    |
| @ Jamb: 12" Max. From<br>Each End & 19" O.C.<br>@ Head: (4) Total Req'd,<br>9" Max. From Centerline of<br>Head, 9" Max. from Each Hinge Jamb                |    |
| @ Jamb: 12" Max. From<br>Each End & 19" O.C.<br>@ Head: (4) Total Req'd,<br>9" Max. From Centerline of<br>Head, 9" Max. from Each Hinge Jamb                |    |
| @ Jamb: 16"-24" O.C. @ Grout Joints<br>@ Head: (4) Total Req'd, 9" Max. from<br>Centerline of Head, 9" Max. From<br>Each Hinge Jamb.                        |    |
| @ Jamb: 16"-24" O.C. @ Grout Joints<br>@ Head: (4) Total Req'd, 9" Max. from<br>Centerline of Head, 9" Max. From<br>Each Hinge Jamb.                        |    |
| @ Jamb: 6", 6" & Equal - 21" Max<br>for Intermediate Spaces.<br>@ Head: (4) Total Req'd,<br>6" Max. From Centerline of Head,<br>6" Max from Each Hinge Jamb |    |
|   | NA |

\*FOR DOUBLE SWING FRAMES WITH 4" FACE FRAME HEADS, (2) EO ANCHORS REQUIRED WHEN INSTALLED IN MASONRY WALL OR (2) STUD ANCHORS REQUIRED WHEN INSTALLED IN STUD WALL. LOCATION OF ANCHORS TO BE 16" FROM CENTERLINE OF FRAME HEAD, OR CAN BE GROUTED FULL WITH 2000 PSI MIN. CONCRETE.

\*\*FOR SIZES 6070 OR LESS REFER TO TABLE ABOVE.

ISSUE



Intertek

2/11/14

**Ceco Door**

**ASSA ABLOY**

Windstorm Resistant  
Door Frame Elevations

**VOL: 4**

**SEC: 11**

**ILL: 1**

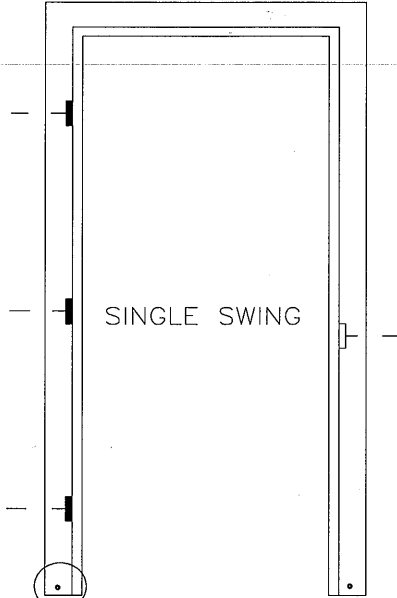
**WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE**

**DRAWN BY: BNR**

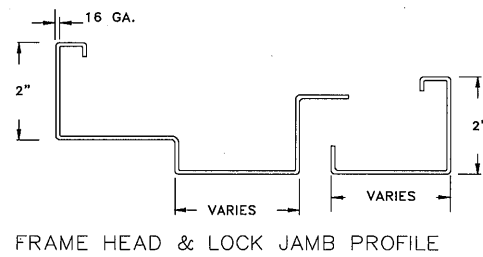
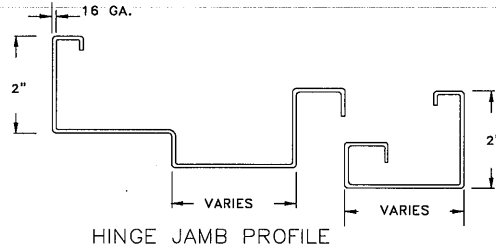
**ALL LOCATIONS**

**PROJECT REF: TS06CL04**

F0277



SEE SECTION 8, ILLUSTRATION 2 FOR FRAME DIMENSIONS



3070 MAX.

5 3/8" MIN./14" MAX. DEPTH

16 GA. WELDED ONLY

DESIGN LOAD = +/-60 PSF (WITHOUT DEADBOLT)

DESIGN LOAD = +/-70 PSF (WITH DEADBOLT)

IMPACT RATING = 350 FT-LBF

DIMPLED HOLES  
BOTH FACES

**ANCHORS & METHOD OF ATTACHMENT**

| ANCHOR TYPE  | LOCATION  |
|--|---|
| PLUMB ANCHOR<br>&<br>WOOD STUD SCREW<br>OR<br>METAL STUD SCREW | TOP PLUMB ANCHOR<br>@ STD LOCATION &<br>BTM PLUMB ANCHOR<br>@ 18" MAX. FROM<br>BTM OF FRAME |
|  | SEE SECTION 8, ILL. 2<br>FOR SCREW FASTENER KEY   |

ISSUE



**Intertek**

*JH 2/12/14*

**Ceco Door**

**ASSA ABLOY**

**Windstorm Resistant**  
ReadySet Door Frame Elevations

**VOL: 4**

**SEC: 11**

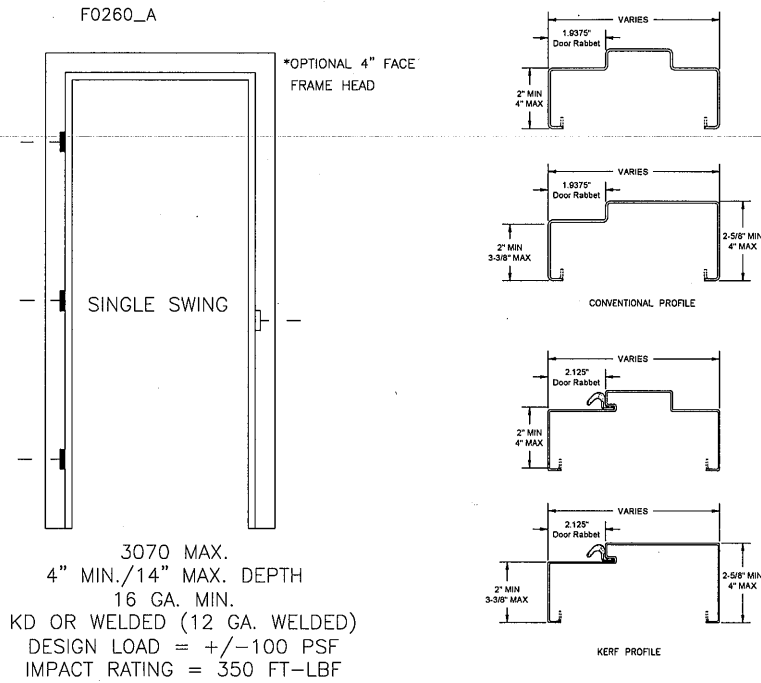
**ILL: 1A**

**WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE**

**DRAWN BY: JRB**

**ALL LOCATIONS**

**PROJECT REF: TS13CL05**



| *ANCHORS & METHOD OF ATTACHMENT  |  |
|--|--|
| ANCHOR TYPE  | *LOCATION  |
| EO - PIPE & SLEEVE<br>(BUTTERFLY UP TO 3070 MAX.)<br>WOOD BUCK<br>3/8" X 6" LAG SCREW          | 12" MAX. FROM EACH<br>END & 19" O.C.                 |
| EO - PIPE & SLEEVE<br>(BUTTERFLY UP TO 3070 MAX.)<br>MASONRY BUCK<br>3/8" X 6" EXPANSION SHELL | 12" MAX. FROM EACH<br>END & 19" O.C.                 |
| MASONRY "T" - GROUTED  | 16" - 24" O.C.<br>⊙ GROUT JOINTS                     |
| WIRE MASONRY - GROUTED   | 16" - 24" O.C.<br>⊙ GROUT JOINTS                     |
| WOOD STUD<br>METAL STUD<br>(NO FLOOR ANCHORS)  | 6", 6" & EQUAL - 21" MAX.<br>FOR INTERMEDIATE SPACES |
| Poured In Place Wall   | NA   |



*JA 2/12/14*



**Windstorm Resistant  
Three Piece Frame**

**VOL: 4**

**SEC: 11**

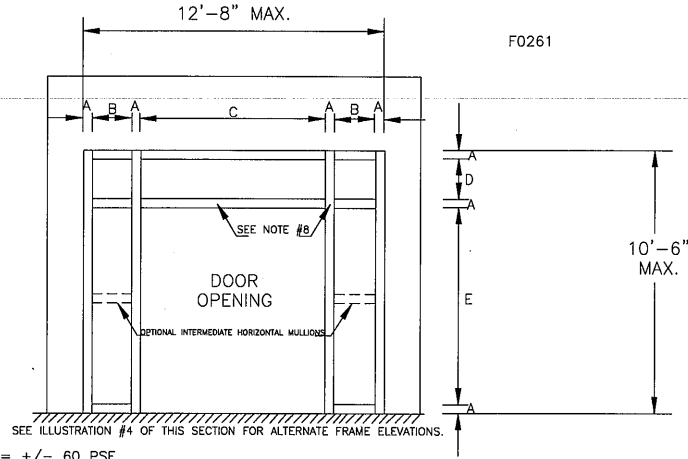
**ILL: 1B**

# WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE

**DRAWN BY: JRB**

**ALL LOCATIONS**

**PROJECT REF: TS13CL05**

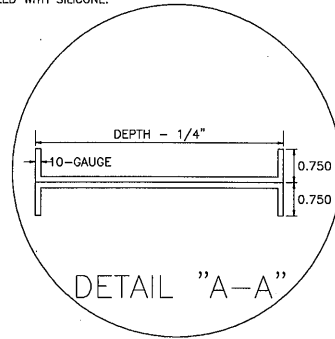


1. DESIGN PRESSURE = +/- 60 PSF  
IMPACT RATING = 350 FT-LBF
2. ALL FRAME PERIMETERS & HEADS OF FASTENERS SEALED WITH SILICONE.
3. CORNER CONSTRUCTION = WELDED ONLY
4. ANCHORS = SEE CHART BELOW
5. FRAME DEPTH = 4" MIN. / 14" MAX.  
16 GA. MIN.
6. DOOR OPENING = 3'-0" X 8'-0" SINGLE MAX.  
6'-0" X 8'-0" PAIRS MAX.
7. STOP HEIGHT = 5/8" MIN.
8. FULL HEIGHT VERTICAL & 6' HORIZONTAL MULLIONS MUST BE REINFORCED WITH (2) 10-GAUGE X 3/4" X FRAME DEPTH "C" CHANNELS INSTALLED BACK TO BACK TO FORM SIMULATED "I" BEAM.  
SEE DETAIL "A-A".

| GLAZING MATERIAL                        | DIM. "B" MAX. | DIM. "C" MAX. | DIM. "D" MAX. | DIM. "E" MAX. | FRAME FACES   |               |
|---|---------------|---------------|---------------|---------------|---------------|---------------|
|   |               |               |               |               | DIM. "A" MIN. | DIM. "A" MAX. |
| *GLASSLAM SAFETY PLUS 2 LAMINATED GLASS | 36"           | 72"           | 36"           | 94"           | 2"            | 4"            |

\*BEDDING IS CLOSED CELL FOAM TAPE 1/8" X 1/2" AND DOW CORNING 985 STRUCTURAL SILICONE. 1 3/4" STEEL STIFFENED, HONEYCOMB, POLYURETHANE, MINERAL CORE OR POLYSTYRENE CORE PANELS (18 Gc Min - 14 Gc Max) MAY BE USED IN LIEU OF GLASSLAM. PANELS ARE WELDED TO FRAME WITH WELDS LOCATED ON THE SIDES 3" MAX. FROM EACH END & 3" MAX. O.C. & ON THE TOP & BOTTOM 3" MAX. FROM EACH END & AT 12" MAX. O.C. THE WELDS ARE MIN. 1/4" WELDS X 1/2" LONG. PANELS TO BE INSTALLED IN EXTERIOR (OUTSIDE) RABBET. WELDS ARE LOCATED WHERE PANEL ABUTS FRAME SOFFIT. PANELS ARE SEALED WITH SILICONE.

| ANCHORS & METHOD OF ATTACHMENT   |        |  |
|--|--------|--|
| ANCHOR TYPE  |        | LOCATION                                       |
| EO - PIPE & SLEEVE OR BUTTERFLY WOOD BUCK<br>3/8" X 6" LAG SCREW                                     | ⊗ JAMB | 12" MAX. FROM SILL, 8" FROM HEAD & 20" O.C.    |
|  | ⊗ HEAD | **2" FROM EACH VERTICAL MEMBER & 14" O.C.      |
|  | ⊗ SILL | 2" FROM EACH VERTICAL MEMBER & ⊗ MIDSPAN       |
| EO - PIPE & SLEEVE OR BUTTERFLY MASONRY BUCK<br>3/8" X 6" EXPANSION SHELLS                           | ⊗ JAMB | 12" MAX. FROM SILL, 8" FROM HEAD & 20" O.C.    |
|  | ⊗ HEAD | **2" FROM EACH VERTICAL MEMBER & 14" O.C.      |
|  | ⊗ SILL | 2" FROM EACH VERTICAL MEMBER & ⊗ MIDSPAN       |
| WIRE MASONRY OR MASONRY "T" - GROUDED, WELDED TO STEEL HEADER, EO P&S OR BUTTERFLY - 3/8" X 6" BOLTS | ⊗ JAMB | 8" MAX. FROM EACH END & 16" O.C.               |
|  | ⊗ HEAD | ***WELDED TO STEEL CHANNEL HEADER              |
|  | ⊗ SILL | 2" FROM EACH VERTICAL MEMBER & ⊗ MIDSPAN       |
| WELDED TO STEEL BUCK   | ⊗ JAMB | ***5" MAX. FROM SILL & 27.5" MAX. O.C.         |
|  | ⊗ HEAD | ***WELDED TO STEEL CHANNEL HEADER              |
|  | ⊗ SILL | 2" FROM EACH VERTICAL MEMBER & ⊗ MIDSPAN       |
| WOOD STUD METAL STUD (NO FLOOR ANCHORS)  | ⊗ JAMB | 5" MAX. FROM SILL & 27.5" MAX. O.C.            |
|  | ⊗ HEAD | **2" MAX. FROM EACH VERTICAL MEMBER & 14" O.C. |
|  | ⊗ SILL | 2" FROM EACH VERTICAL MEMBER & ⊗ MIDSPAN       |

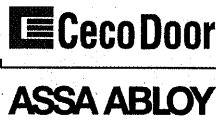


\*\*FOR 6' & UP HEAD MEMBERS, FOR HEADS LESS THAN 6', LOCATE ANCHORS 2" MAX. FROM EACH VERTICAL MEMBER & ⊗ MIDPOINT OF SPAN.

\*\*\*1/4" THICK MAX. SHIM PLATES (2" WIDE X 7" LONG OR TO SUIT JAMB DEPTH) WELDED TO STEEL CHANNEL, & FRAMES WELDED TO SHIM PLATES. SHIM PLATES TO BE 1-1/4" GREATER THAN JAMB DEPTH. HEADER WELDS LOCATED 3" FROM EACH JAMB & 3" FROM EACH SIDE OF VERTICAL MULLIONS & ⊗ MIDPOINT OF SPAN OF HEAD ABOVE DOORS. WELDS ARE MIN. 3/16" X 1" LONG. SHIM PLATES ARE PROVIDED BY OTHERS. AFTER WELDING FRAME TO SHIMS, CAULK GAPS BETWEEN FRAME AND STRUCTURAL STEEL CHANNEL WHERE SHIM PLATES ARE VOID.



*JRB* 2/12/14



**Windstorm Resistant**  
Sidelite, Transom or Transom/Sidelite Frame Elevations

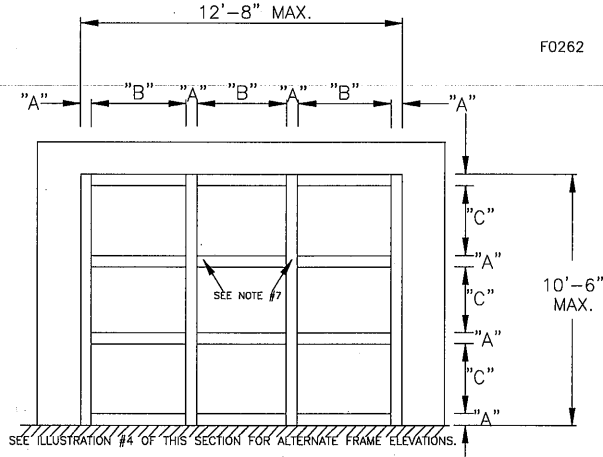
**VOL:** 4  
**SEC:** 11  
**ILL:** 2

# WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE

**DRAWN BY: JRB**

**ALL LOCATIONS**

**PROJECT REF: TS13CL05**

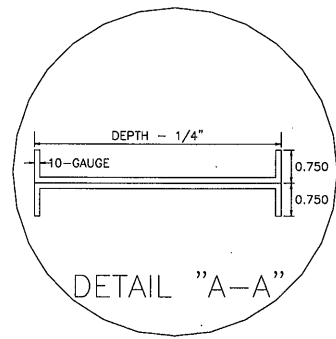


1. DESIGN PRESSURE = +/- 60 PSF  
IMPACT RATING = 350 FT-LBF
2. ALL FRAME PERIMETERS & HEADS OF FASTENERS SEALED WITH SILICONE.
3. CORNER CONSTRUCTION = WELDED ONLY
4. ANCHORS = SEE CHART BELOW
5. FRAME DEPTH = 4" MIN. / 14" MAX.  
16 GA. MIN.
6. STOP HEIGHT = 5/8" MIN.
7. FULL HEIGHT VERTICAL & 6' HORIZONTAL MULLIONS MUST BE REINFORCED WITH (2) 10-GAUGE X 3/4" X FRAME DEPTH "C" CHANNELS INSTALLED BACK TO BACK TO FORM SIMULATED 1" BEAM. SEE DETAIL "A-A".

| GLAZING MATERIAL                        | FRAME FACES DIM. "A" |      | DIM. "B" MAX. | DIM. "C" MAX. | MAX. EXPOSED GLAZED AREA (in <sup>2</sup> ) |
|---|----------------------|------|---------------|---------------|---|
|   | MIN.                 | MAX. |               |               |   |
| *GLASSLAM SAFETY PLUS 2 LAMINATED GLASS | 2"                   | 4"   | 72"           | 94"           | 3384  |

\*BEDDING IS CLOSED CELL FOAM TAPE 1/8" X 1/2" AND DOW CORNING 995 STRUCTURAL SILICONE. 1 3/4" STEEL STIFFENED, HONEYCOMB, POLYURETHANE, MINERAL CORE OR POLYSTYRENE CORE PANELS (18 Gd Min - 14 Gd Max) MAY BE USED IN LIEU OF GLASSLAM. PANELS ARE WELDED TO FRAME WITH WELDS LOCATED ON THE SIDES 3" MAX. FROM EACH END & 3" MAX. O.C. & ON THE TOP & BOTTOM 3" MAX. FROM EACH END & AT 12" MAX. O.C. THE WELDS ARE MIN. 1/4" WELDS X 1/2" LONG. PANELS ARE SEALED WITH SILICONE.

| ANCHORS & METHOD OF ATTACHMENT   |        |  |
|--|--------|--|
| ANCHOR TYPE  |        | LOCATION                                       |
| EO - PIPE & SLEEVE OR BUTTERFLY WOOD BUCK<br>3/8" X 6" LAG SCREW                                     | ⊙ JAMB | 12" MAX. FROM SILL, 8" FROM HEAD & 20" O.C.    |
|  | ⊙ HEAD | **2" FROM EACH VERTICAL MEMBER & 14" O.C.      |
|  | ⊙ SILL | 2" FROM EACH VERTICAL MEMBER & ⊙ MIDSPAN       |
| EO - PIPE & SLEEVE OR BUTTERFLY MASONRY BUCK<br>3/8" X 6" EXPANSION SHELLS                           | ⊙ JAMB | 12" MAX. FROM SILL, 8" FROM HEAD & 20" O.C.    |
|  | ⊙ HEAD | **2" FROM EACH VERTICAL MEMBER & 14" O.C.      |
|  | ⊙ SILL | 2" FROM EACH VERTICAL MEMBER & ⊙ MIDSPAN       |
| WIRE MASONRY OR MASONRY "T" - GROUTED, WELDED TO STEEL HEADER, EO P&S OR BUTTERFLY - 3/8" X 6" BOLTS | ⊙ JAMB | 8" MAX. FROM EACH END & 16" O.C.               |
|  | ⊙ HEAD | ***WELDED TO STEEL CHANNEL HEADER              |
|  | ⊙ SILL | 2" FROM EACH VERTICAL MEMBER & ⊙ MIDSPAN       |
| WELDED TO STEEL BUCK   | ⊙ JAMB | ***5" MAX. FROM SILL & 27.5" MAX. O.C.         |
|  | ⊙ HEAD | ***WELDED TO STEEL CHANNEL HEADER              |
|  | ⊙ SILL | 2" FROM EACH VERTICAL MEMBER & ⊙ MIDSPAN       |
| WOOD STUD METAL STUD (NO FLOOR ANCHORS)  | ⊙ JAMB | 5" MAX. FROM SILL & 27.5" MAX. O.C.            |
|  | ⊙ HEAD | **2" MAX. FROM EACH VERTICAL MEMBER & 14" O.C. |
|  | ⊙ SILL | 2" FROM EACH VERTICAL MEMBER & ⊙ MIDSPAN       |



\*\*FOR 6' & UP HEAD MEMBERS. FOR HEADS LESS THAN 6', LOCATE ANCHORS 2" MAX. FROM EACH VERTICAL MEMBER & ⊙ MIDPOINT OF SPAN.  
\*\*\*1/4" THICK MAX. SHIM PLATES (2" WIDE X 7" LONG OR TO SUIT JAMB DEPTH) WELDED TO STEEL CHANNEL & FRAMES WELDED TO SHIM PLATES. SHIM PLATES TO BE 1-1/4" GREATER THAN JAMB DEPTH. HEADER WELDS LOCATED 3" FROM EACH JAMB & 3" FROM EACH SIDE OF VERTICAL MULLIONS & ⊙ MIDPOINT OF SPAN OF HEAD ABOVE DOORS. WELDS ARE MIN. 3/16" X 1" LONG. SHIM PLATES ARE PROVIDED BY OTHERS. AFTER WELDING FRAME TO SHIMS, CAULK GAPS BETWEEN FRAME AND STRUCTURAL STEEL CHANNEL WHERE SHIM PLATES ARE VOID.

ISSUE



Intertek

**Ceco Door**  
**ASSA ABLOY**

Windstorm Resistant  
Window Frame Elevations

**VOL: 4**

**SEC: 11**

**ILL: 3**

JA 2/12/14



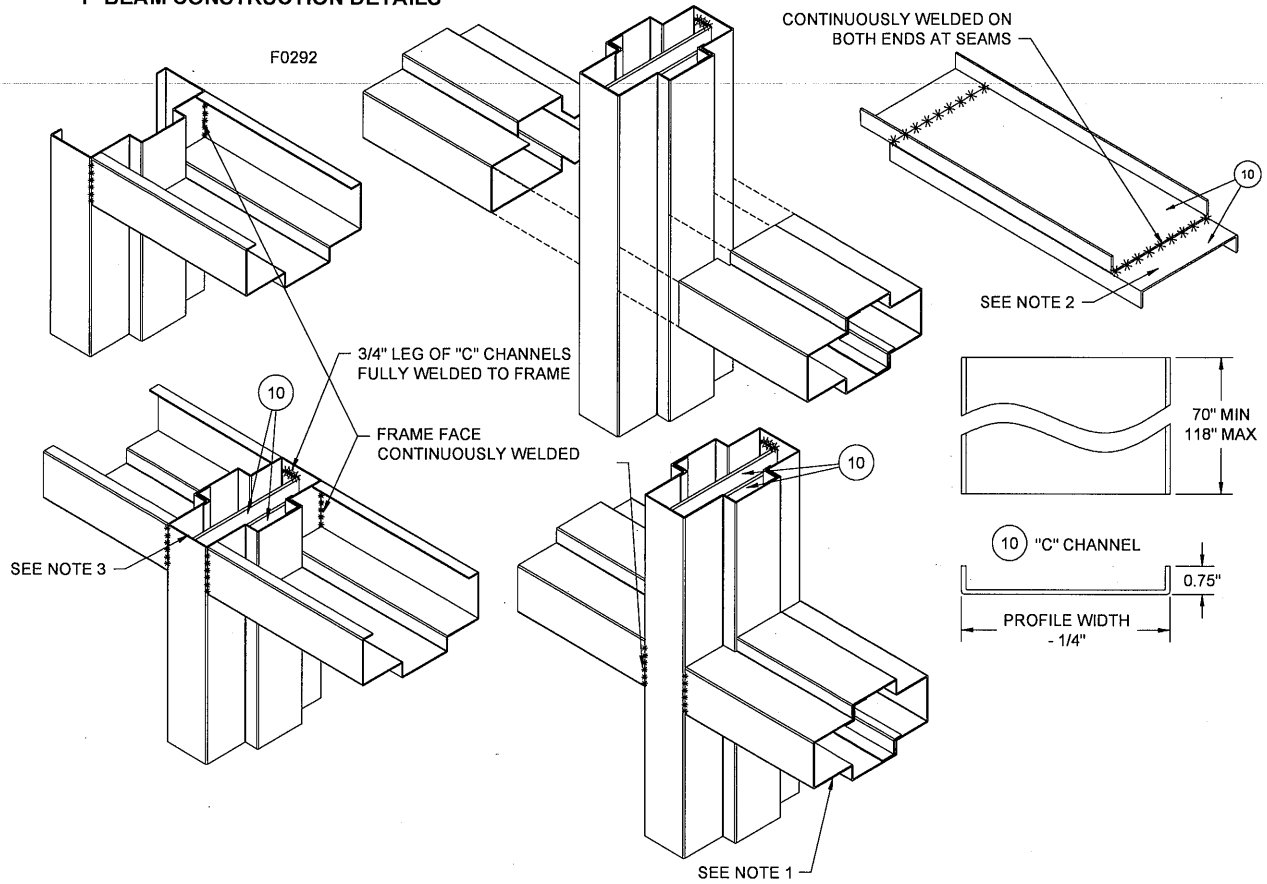
**WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE**

**DRAWN BY: BNR**

**ALL LOCATIONS**

**PROJECT REF: TS03CL61**

**"I" BEAM CONSTRUCTION DETAILS**



**NOTE:**

1. MULLIONS MUST RUN THROUGH HEADS, SILLS, OR JAMBS AND BE REINFORCED WITH 10 GAUGE "C" CHANNELS (ITEM 10) IF EQUAL TO OR GREATER THAN 6' IN LENGTH.
2. 10 GA. "C" CHANNELS MUST BE INSTALLED BEFORE WELDING TOGETHER. OFFSET 3/4" ON EACH END.
3. EQUALLY SPACED AT EACH END OF MULLION.



*JA 2/12/14*



**Windstorm Resistant  
"I" Beam Construction Details**

**VOL: 4**  
**SEC: 11**  
**ILL: 3A**

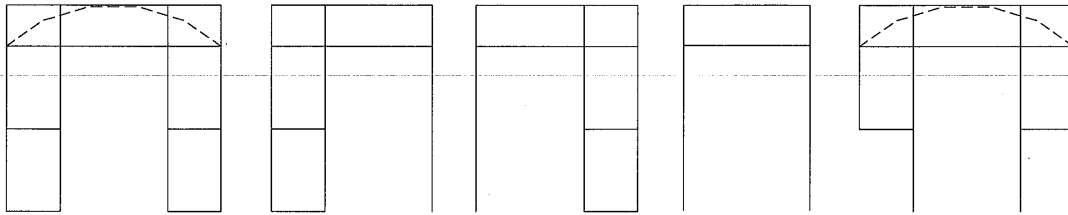
**WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE**

**DRAWN BY: BNR**

**ALL LOCATIONS**

**PROJECT REF: TS06CL04**

F0263



TF2SL

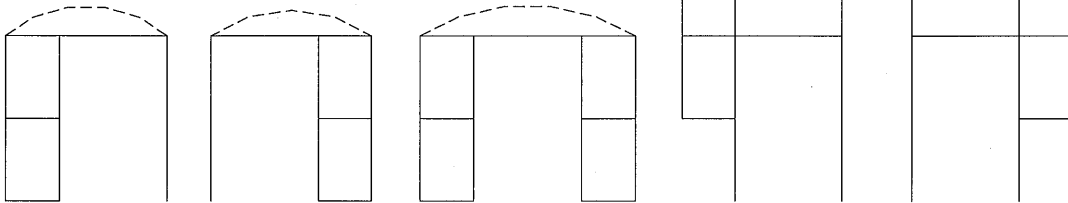
TFLSL

TFRSL

TF

TF2PSL

\* OPTION: ARCHED UNITS



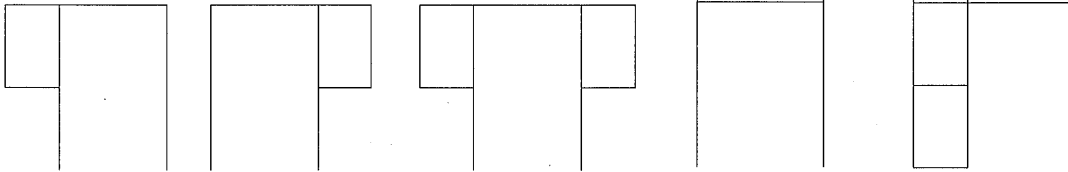
LSL

RSL

2SL

TFLPSL

TFRPSL



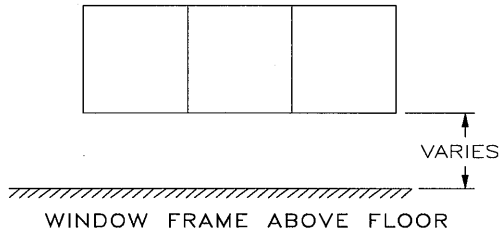
LPSL

RPSL

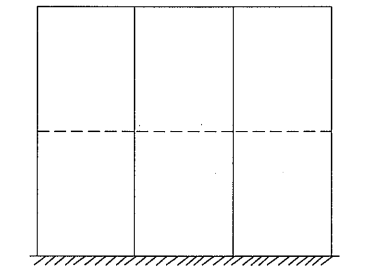
P2SL

ARCHED FRAMES

SLOPED FRAMES



WINDOW FRAME ABOVE FLOOR



WINDOW FRAME ON FLOOR

ISSUE



Intertek



**ASSA ABLOY**

Windstorm Resistant  
Alternate Frame Elevations

|             |           |
|-------------|-----------|
| <b>VOL:</b> | <b>4</b>  |
| <b>SEC:</b> | <b>11</b> |
| <b>ILL:</b> | <b>4</b>  |

AA 2/12/14

# WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE

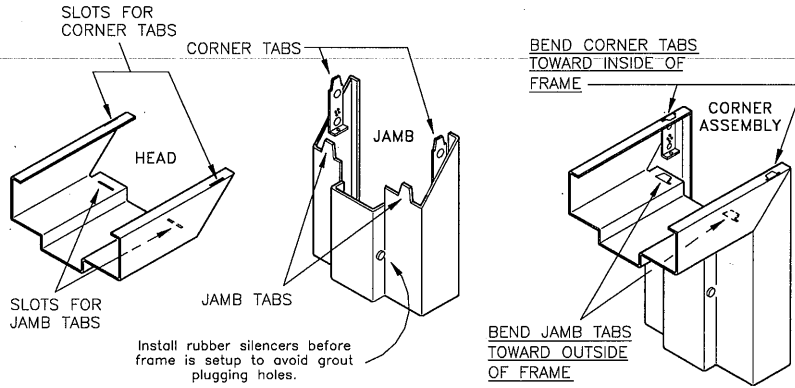
**DRAWN BY: JRB**

**ALL LOCATIONS**

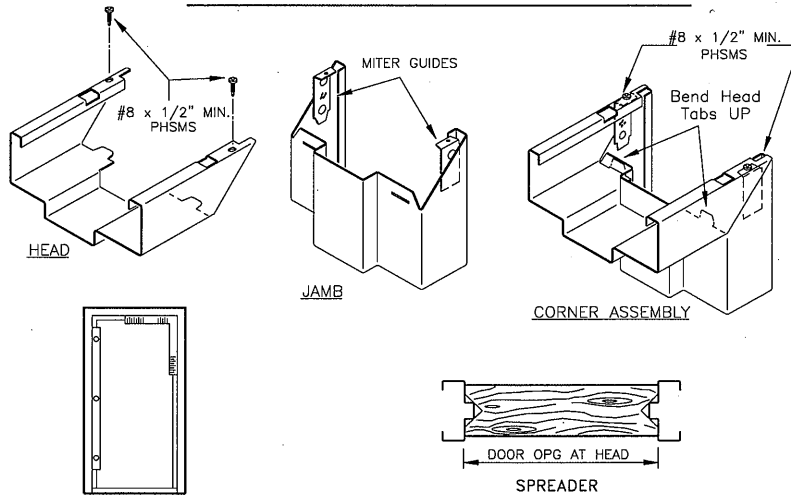
**PROJECT REF: TS11CL05**

F0282

## CONVENTIONAL FRAME CORNER ASSEMBLY



## DRYWALL FRAME CORNER ASSEMBLY



**SQUARING THE FRAME**

The installer should use wood spreaders, a carpenters level and a carpenters square. Set the frame in the desired location. Level head and plumb jambs. Shim under jambs if necessary.

Typical wood spreader must be square and made from lumber at least 1" thick. Length of spreader equals door opening width at the head. Cut clearance notches for frame stops as shown. Spreader must be nearly as wide as frame depth for proper installation.

ISSUE



**Intertek**

*JA* 2/12/14

**Ceco Door**

**ASSA ABLOY**

**Windstorm Resistant  
K/D Corner Frame Assembly**

**VOL: 4**

**SEC: 11**

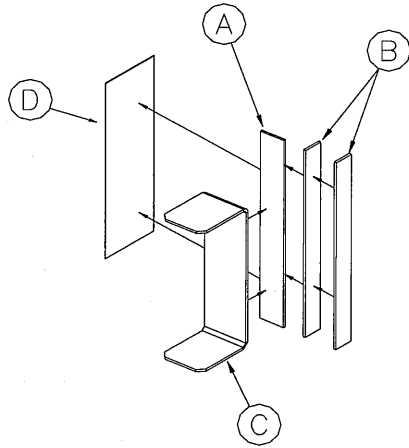
**ILL: 5**

**WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE**

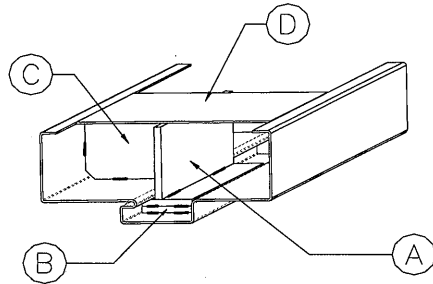
**DRAWN BY: JRB**

**ALL LOCATIONS**

**PROJECT REF: TS11CL05**

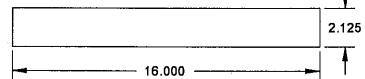


**Strike Reinforcement Assembly**



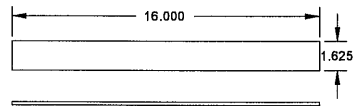
**Strike Reinforcement "A"**

Matl: 7 ga Mild Steel



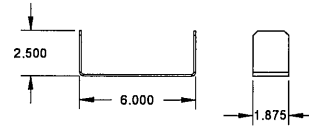
**Strike Reinforcement "B"**

(2) Required  
Matl: 7 ga Mild Steel



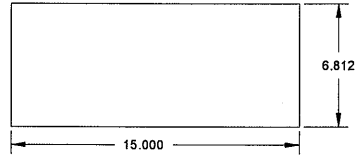
**Strike Reinforcement "C"**

Matl: 12 ga Mild Steel



**Strike Reinforcement "D"**

Matl: 16 ga Mild Steel



Strike Reinforcement Required for Trio and Trio-E Doors Over 3'0" Wide with Rim Exit Devices

**F0299**

ISSUE



**Intertek**

*JA 2/12/14*

**CecoDoor**

**ASSA ABLOY**

**Rim Exit Strike Reinforcement  
For Openings Over 3'0" Wide**

**VOL: 4**

**SEC: 11**

**ILL: 5A**

**WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE**

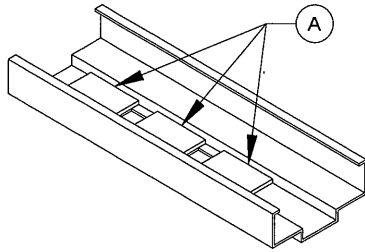
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**ALL LOCATIONS**

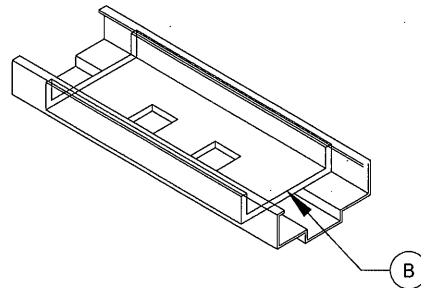
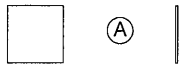
**PROJECT REF: TS13CL05**

F0311

**SURFACE VERTICAL ROD HEAD REINFORCEMENT  
REQUIRED FOR ±70PSF TRIO/TRIO-E PAIRS OF DOORS WITH GLASS**



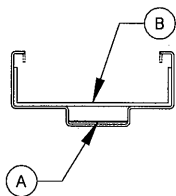
**FRAME HEAD PLATE REINFORCEMENT  
14 GA. (0.067" MIN)**



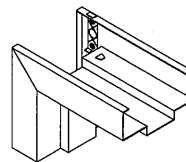
**14 GA. (0.067" MIN) FRAME HEAD CHANNEL  
REINFORCEMENT**



(LENGTH VARIES BY HARDWARE)



**2" FACE HEAD MIN  
4" FACE HEAD MAX**



**KD OR WELDED**

ISSUE



**Intertek**

**Ceco Door**

**ASSA ABLOY**

Surface Vertical Rod Reinforcement  
For ±70 PSF Pairs With Glass

**VOL: 4**

**SEC: 11**

**ILL: 5B**

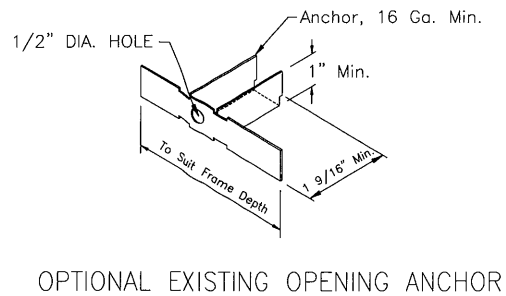
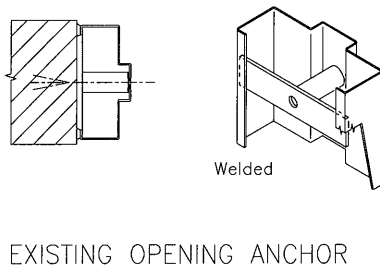
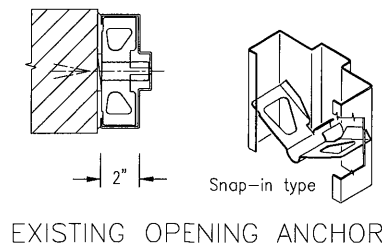
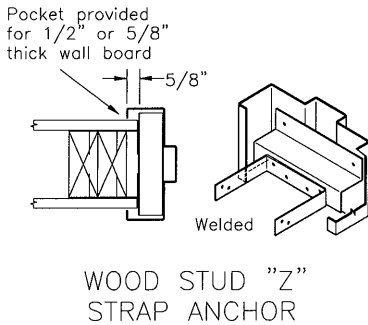
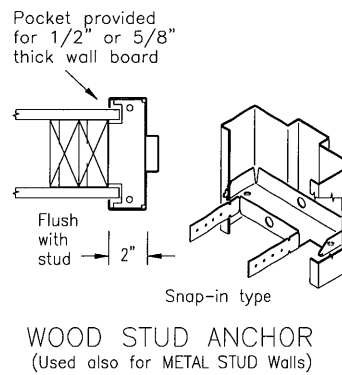
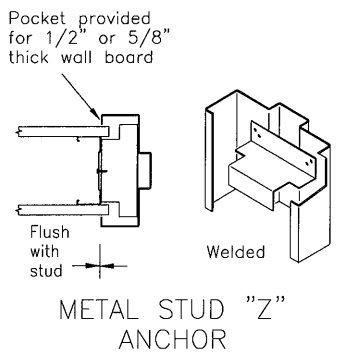
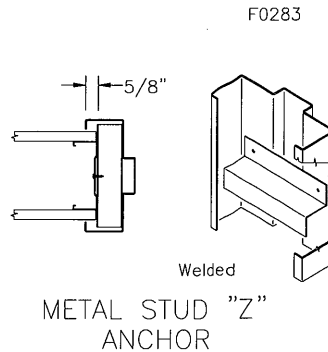
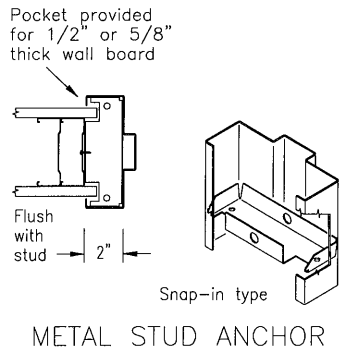
*JA 2/12/14*

**WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE**

**DRAWN BY: JB**

**ALL LOCATIONS**

**PROJECT REF: TS15CL05**



**ISSUE**  
  
 Intertek  
*RW*  
 3-27-15

**Ceco Door**  


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**ASSA ABLOY**  


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**Windstorm Resistant**  
**Stud Wall Frame Anchors**

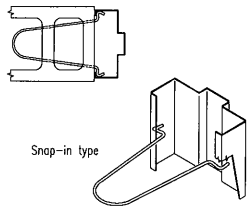
**VOL:** 4  
**SEC:** 11  
**ILL:** 6

# WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE

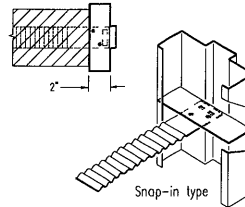
**DRAWN BY: JB**

**ALL LOCATIONS**

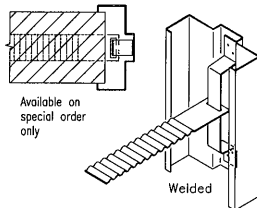
**PROJECT REF: TS15CL05**



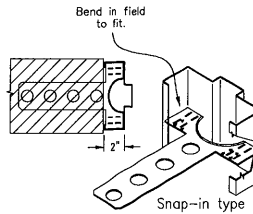
WIRE MASONRY ANCHOR



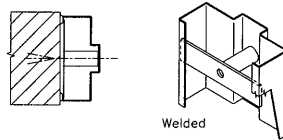
MASONRY "T" ANCHOR



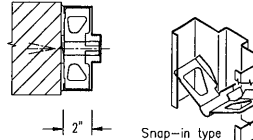
YOKE AND STRAP MASONRY ANCHOR



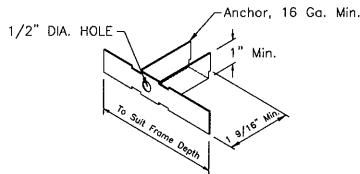
MASONRY "T" ANCHOR (ADJUSTABLE)



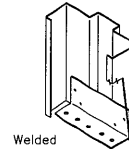
EXISTING OPENING ANCHOR



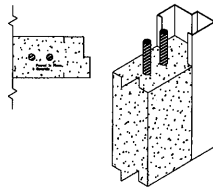
EXISTING OPENING ANCHOR



OPTIONAL EXISTING OPENING ANCHOR



STANDARD FLOOR ANCHOR



POURED IN PLACE WALL

F0284 A

ISSUE



*RW*  
Intertek  
3-27-15

**Ceco Door**

**ASSA ABLOY**

Windstorm Resistant  
Masonry Wall Frame Anchors

VOL: 4

SEC: 11

ILL: 6A

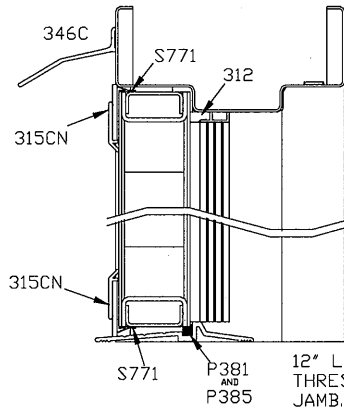
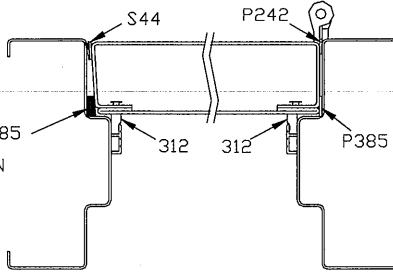
**WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE**

**DRAWN BY: JRB**

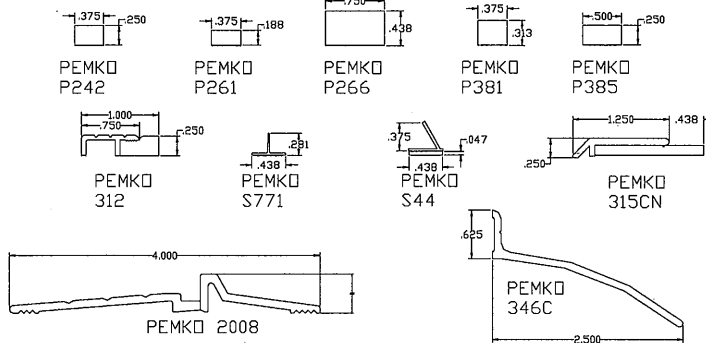
**ALL LOCATIONS**

**PROJECT REF: TS13CL06**

12" LONG PIECE OF P381 APPLIED ON  
LOCK JAMB DOOR RABBET  
STARTING AT SILL.  
REMAINDER OF JAMB IS P385.



12" LENGTH OF P381 APPLIED ON  
THRESHOLD STARTING AT THE LOCK  
JAMB. REMAINDER OF THRESHOLD  
WEATHERSTRIP IS P385.



WEATHER STRIP FOR WATER INFILTRATION SINGLE DOORS PER  
TAS DESIGN PRESSURE 50 PSF

F0305



Water Infiltration Preparations  
Single Swing

**VOL:** 4  
**SEC:** 11  
**ILL:** 6B

*AA* 2/12/14

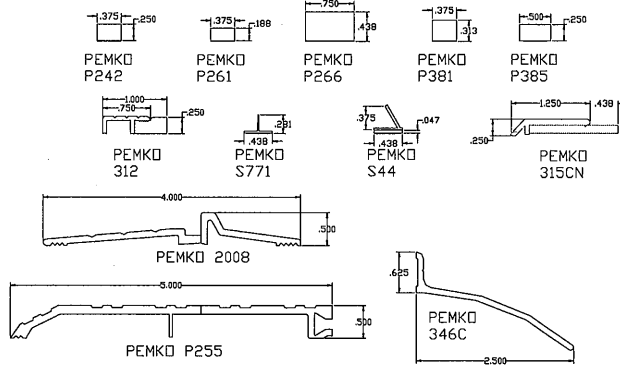
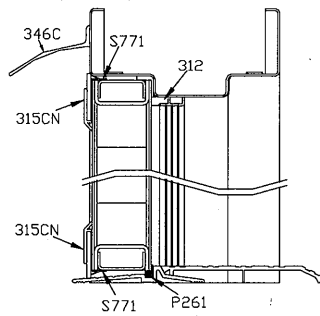
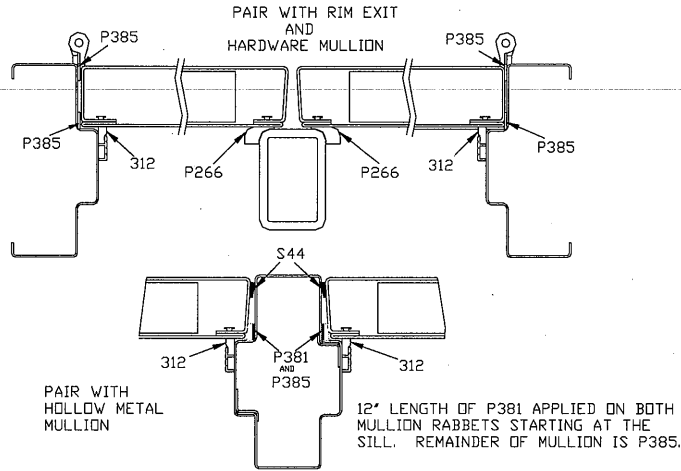


# WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE

**DRAWN BY: JRB**

**ALL LOCATIONS**

**PROJECT REF: TS13CL06**



**WEATHER STRIP FOR WATER INFILTRATION  
PAIRS OF DOORS PER TAS 202 DESIGN PRESSURE 60 PSF**

F0306

ISSUE



Intertek

*JRB 2/12/14*

**Ceco Door**

**ASSA ABLOY**

Water Infiltration Preparations  
Standard Swing Pair

**VOL: 4**

**SEC: 11**

**ILL: 6C**

**WARNOCK HERSEY FOLLOW-UP SERVICE PROCEDURE**

**DRAWN BY: JRB**

**ALL LOCATIONS**

**PROJECT REF: TS13CL05**




**Label for Windstorm Resistant Frames**



The label design has the following information:

1. WH classified logo
2. Ceco Door/ASSA ABLOY Logo
3. WH assigned W/N Number (20824)
4. Complimentary classification (Windstorm Resistant Frame)
5. Design Load Rating & Impact Rating
6. ANSI/ASTM/TAS Test Number References
7. Ceco part number (7000747)

Labels will be metal with holes for fastener attachment.

|  |   |                                     |
|--|---|-------------------------------------|
| <br>Intertek<br><i>JK 2/12/14</i> | <br><b>Ceco Door</b><br><br><b>ASSA ABLOY</b> | <b>VOL:</b> 4                       |
|  | Windstorm Label Detail (Frames)   | <b>SEC:</b> 11<br><br><b>ILL:</b> 7 |