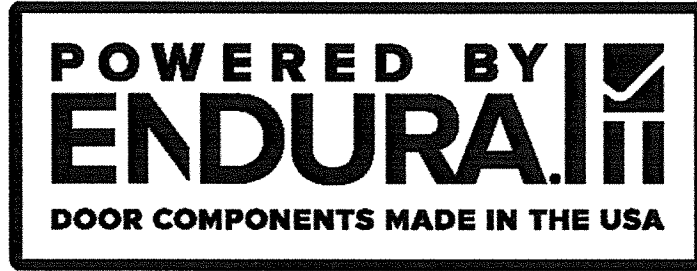


Z:\Clients\Endura PERMANENTB - Texas Dept of Ins\TDI - DR-XXXX (Sub ID...) OPAQUE X XX PANOLock - IMPACTC - Drawings\TX-5217.dwg



PanoLock Multi-Point Lock in a Single or Double Door IN SWING / OUT SWING "IMPACT"

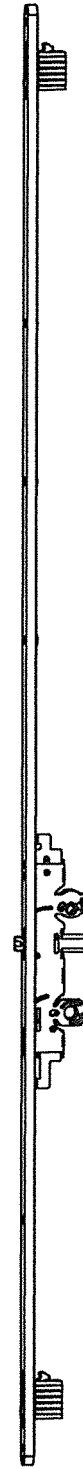
EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

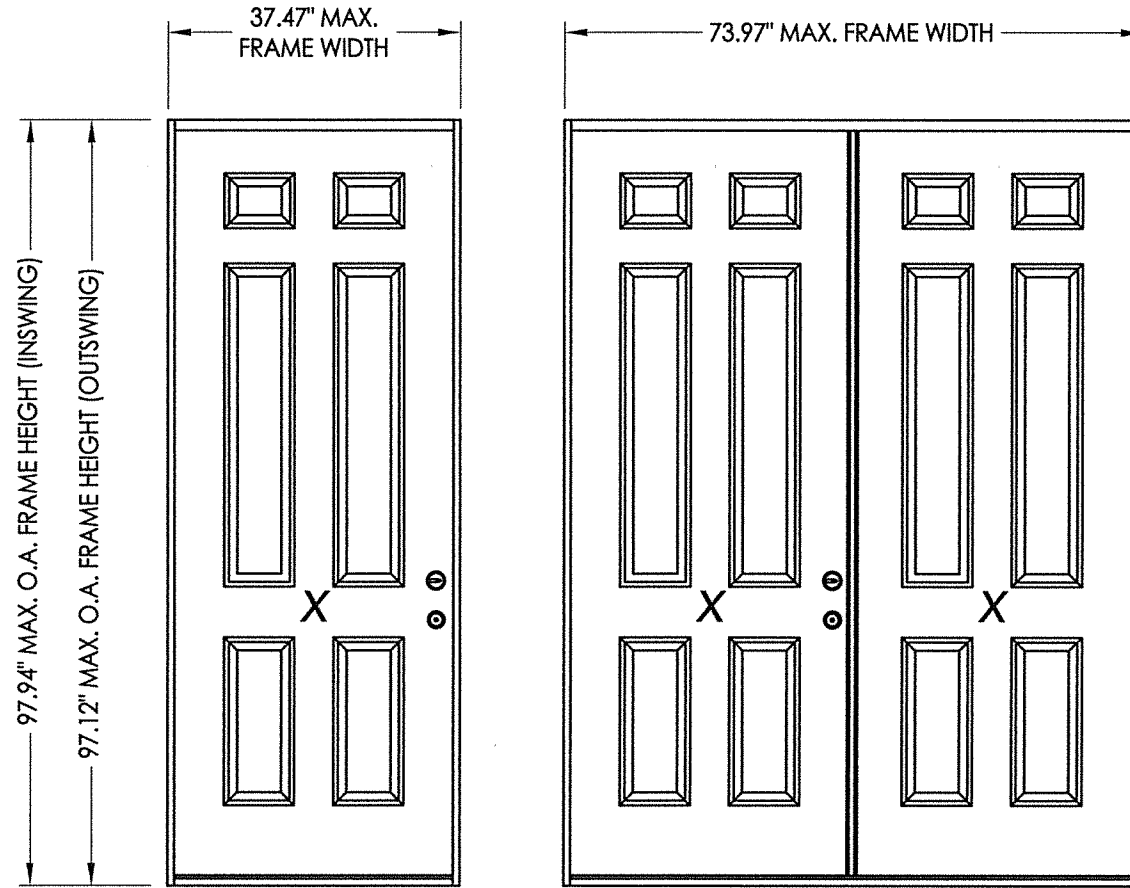
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. This system has been tested and evaluated as a large missile impact protective system for installation in areas that require wind borne debris protection. This product meets missile level "D" as defined in ASTM E 1996.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

TABLE OF CONTENTS

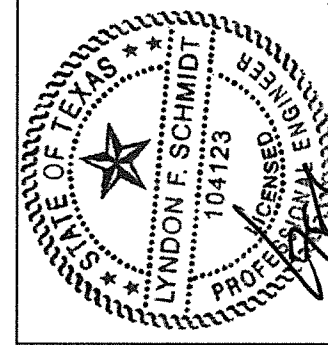
| SHEET # | DESCRIPTION |
|---------|--|
| 1 | Typical Sections, Design Pressures & General Notes |
| 2 | Door Panel Details |
| 3 | Elevations |
| 4 | Vertical Cross Sections |
| 5 | Horizontal Cross Sections |
| 6 | Frame Anchoring |
| 7 | Bill of Materials & Components |



PanoLock Multi-Point Lock



| CONFIGURATION | MAX FRAME DIMENSION | DESIGN PRESSURE (PSF) | | | |
|---------------|---------------------|-----------------------|----------|-----------|----------|
| | | IN SWING | | OUT SWING | |
| | | POSITIVE | NEGATIVE | POSITIVE | NEGATIVE |
| X | 37.47" x 97.94" | +65.0 | -65.0 | +65.0 | -65.0 |
| XX | 73.97" x 97.94" | +50.0 | -50.0 | +50.0 | -50.0 |



Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

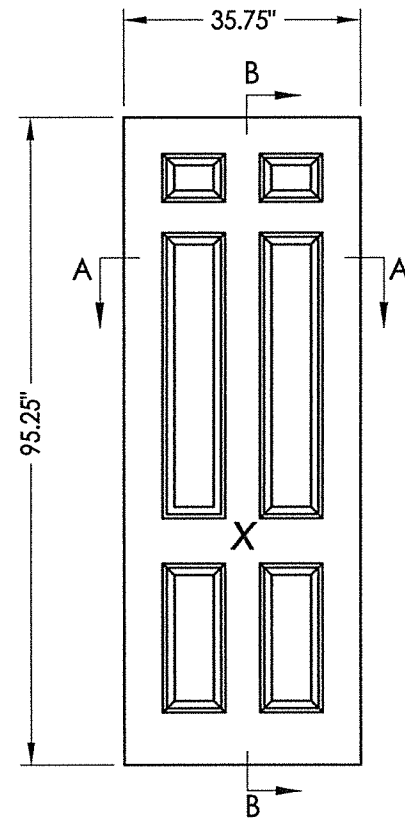
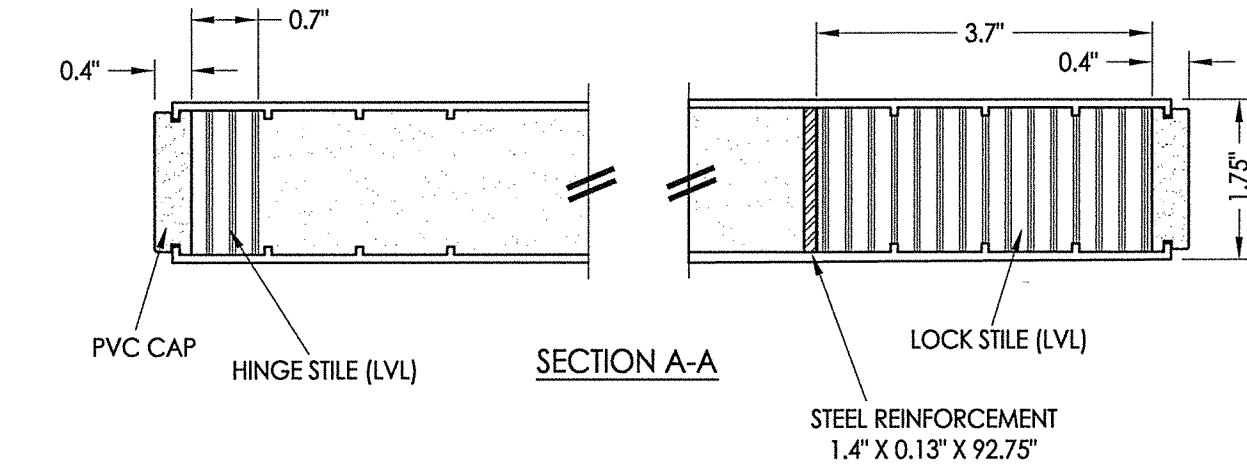
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL. 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

PART OR ASSEMBLY:
TYPICAL SECTIONS, DESIGN PRESSURES & GENERAL NOTES

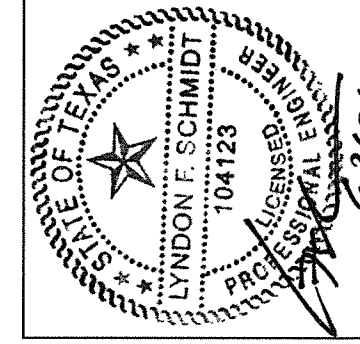
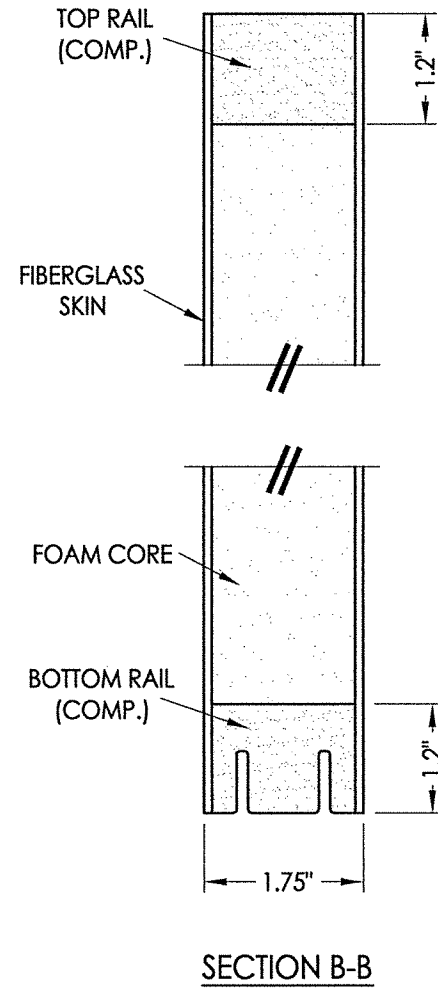
| NO. | DATE | BY | REVISIONS |
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DATE: 6/17/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5217
SHEET 1 OF 7



FIBERGLASS DOOR PANEL
Plastpro 8'-0"
Opaque

FIBERGLASS SKIN: 0.075" MIN. THK.
FOAM CORE: POLYURETHANE



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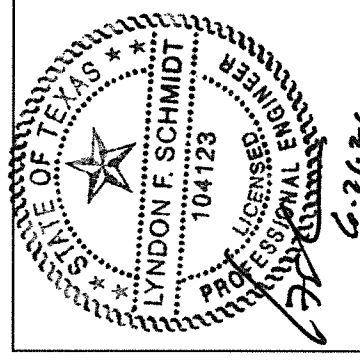
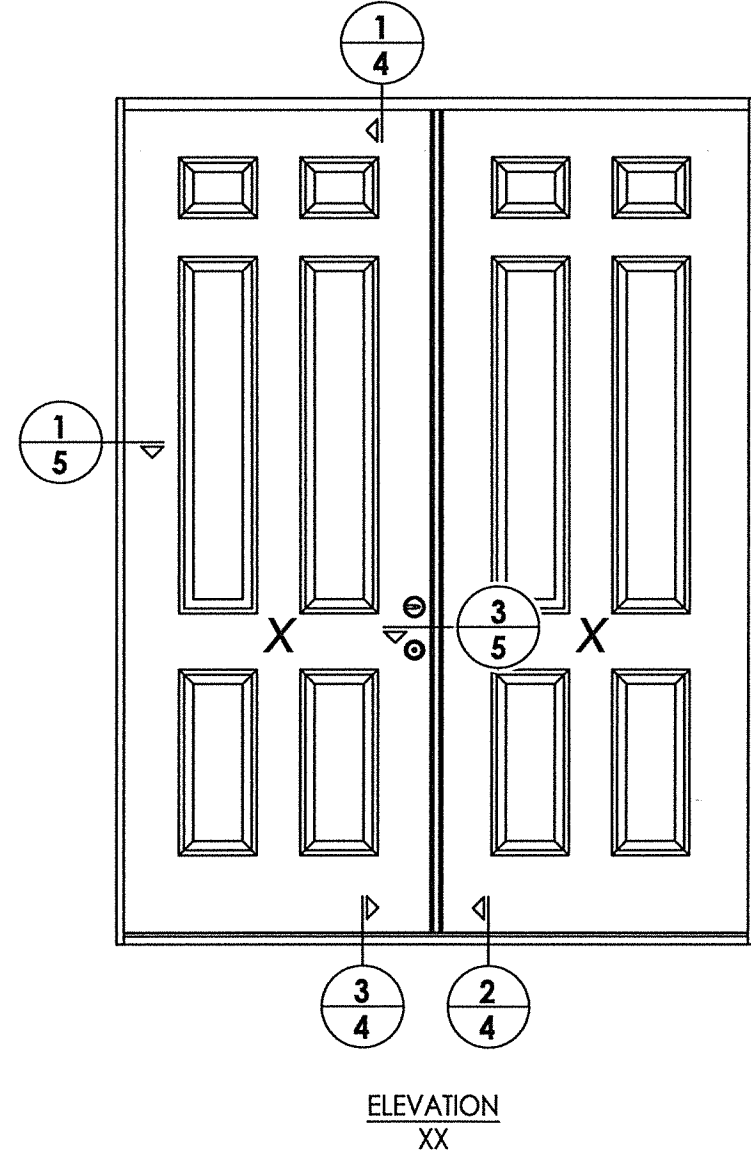
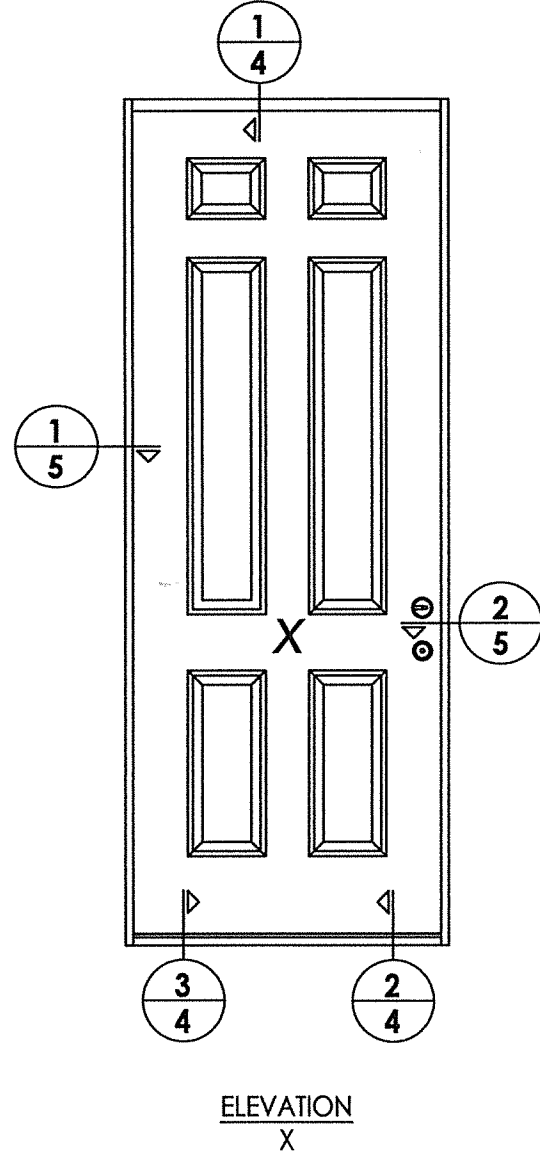
RW
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Phone No.: 813.659.9197

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| | |
|-------------------|--------------------|
| PRODUCT: | ENDURA |
| PART OR ASSEMBLY: | DOOR PANEL DETAILS |

| NO. | DATE | BY |
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|--------------|---------|
| DATE: | 6/17/21 |
| SCALE: | N.T.S. |
| DWG. BY: | RW |
| CHK. BY: | LFS |
| DRAWING NO.: | TX-5217 |
| SHEET | 2 OF 7 |



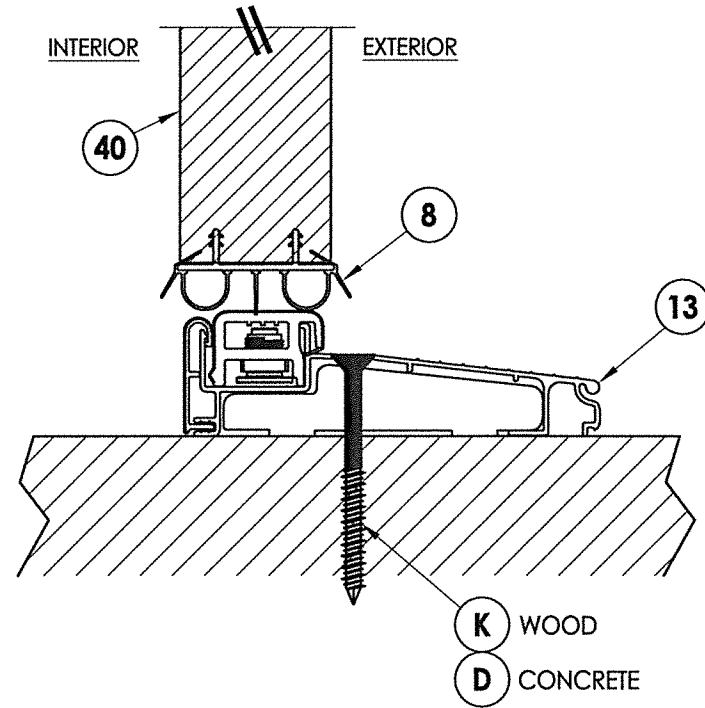
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA
PART OR ASSEMBLY: ELEVATIONS

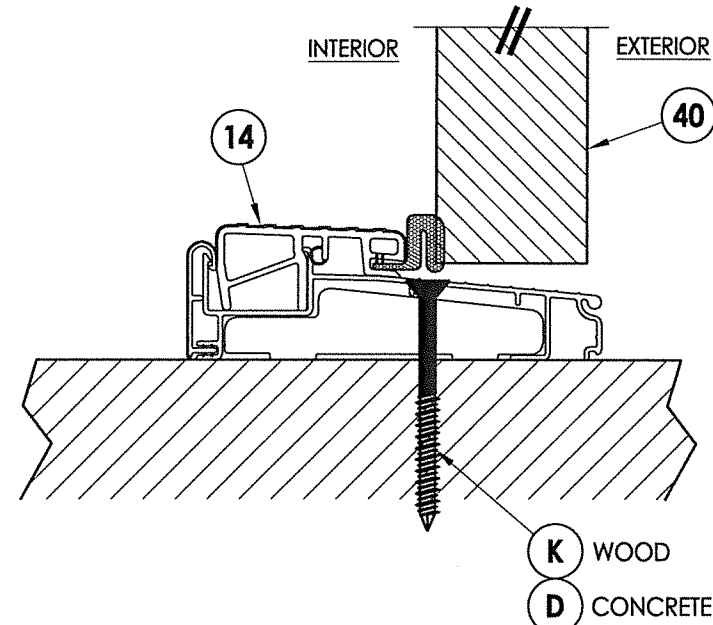
| NO. | DATE | BY |
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DATE: 6/17/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5217
SHEET 3 OF 7



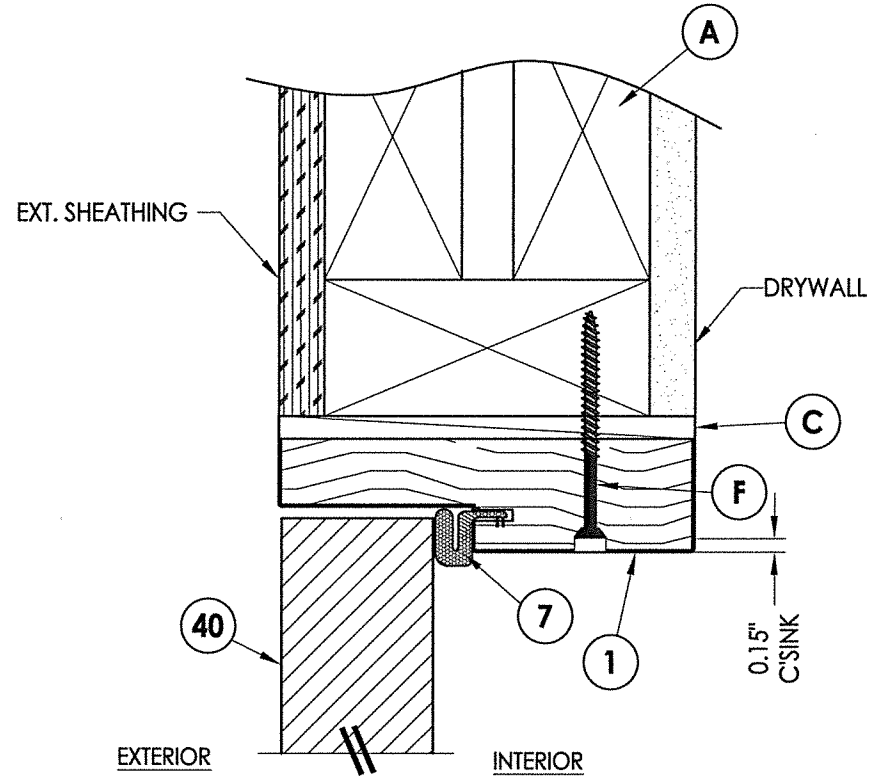
2 VERTICAL CROSS SECTION
4 Inswing sill

(K) WOOD
(D) CONCRETE

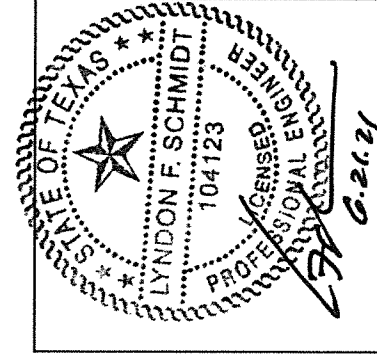


3 VERTICAL CROSS SECTION
4 Outswing sill

(K) WOOD
(D) CONCRETE



1 VERTICAL CROSS SECTION
4 Outswing shown (inswing similar)



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 TEXAS P.E. #104123

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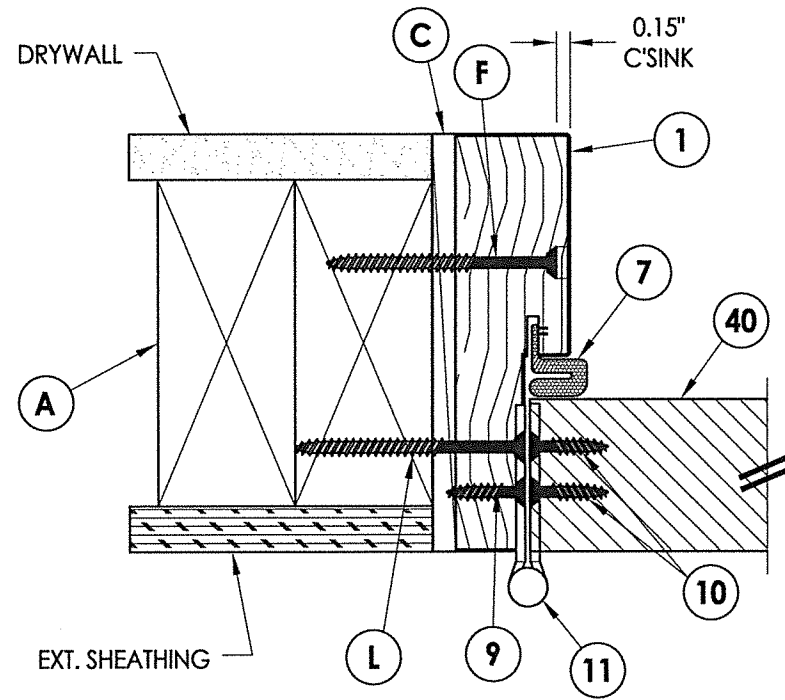
PRODUCT: ENDURA

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

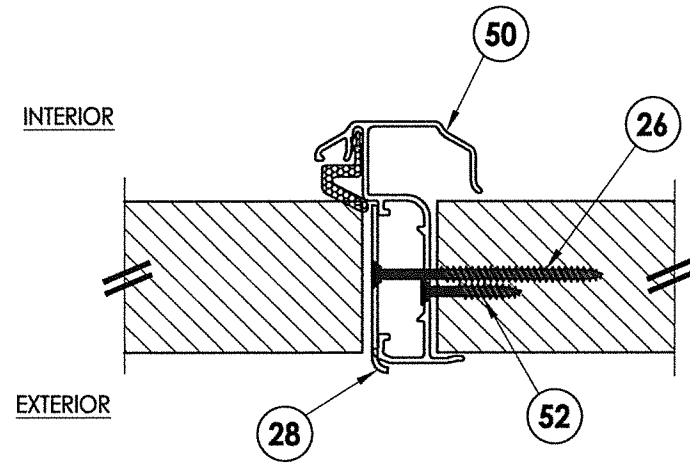
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DATE: 6/17/21
 SCALE: N.T.S.
 DWG. BY: RW
 CHK. BY: LFS
 DRAWING NO.: TX-5217
 SHEET 4 OF 7

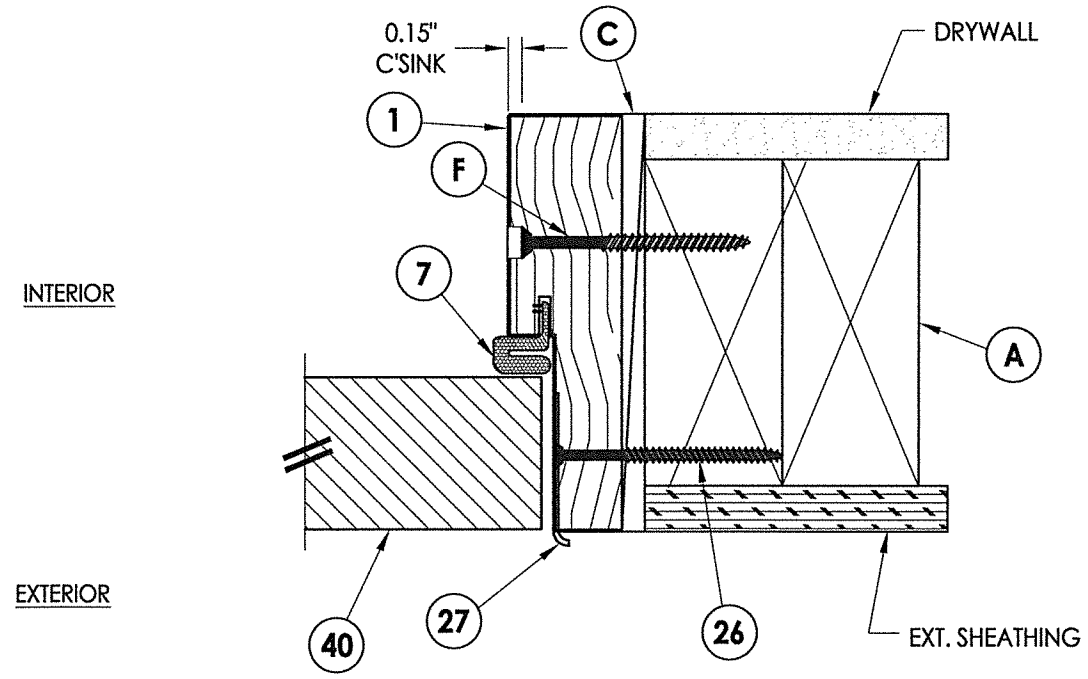
NOTE:
 1. SILL ANCHORS ARE NOT REQUIRED FOR SINGLE DOOR CONFIGURATIONS.



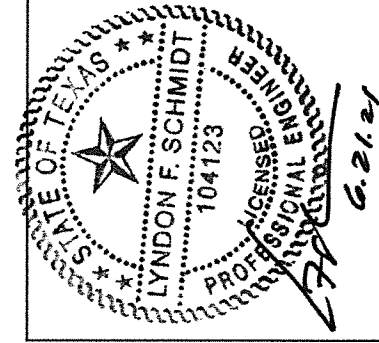
1
5 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)



3
5 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)



2
5 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)



Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

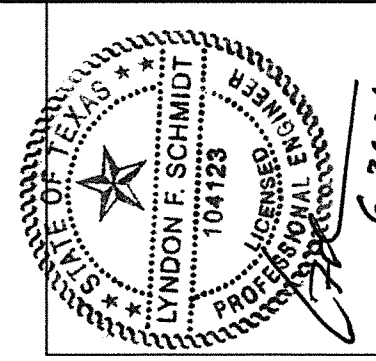
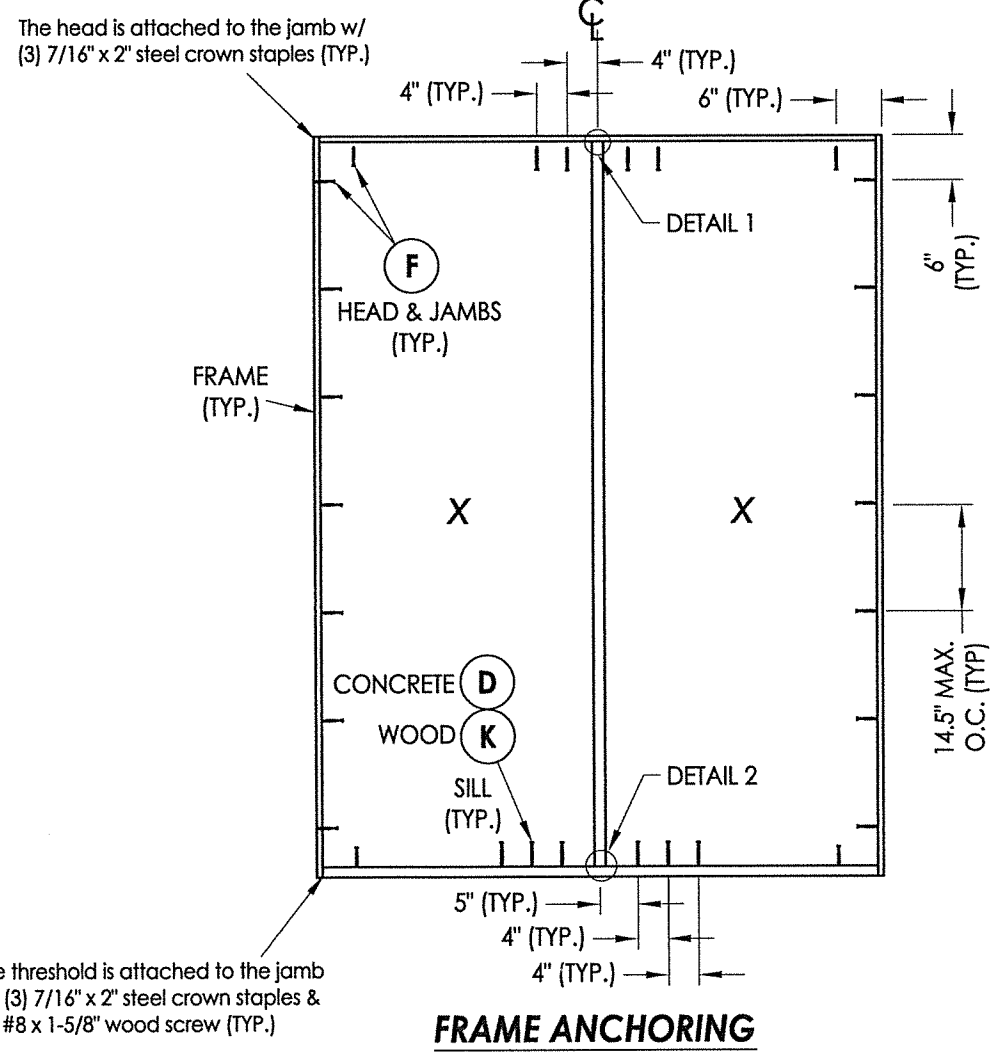
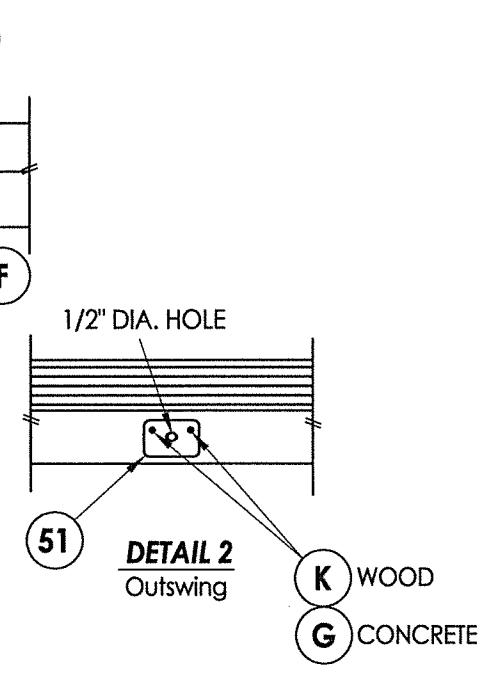
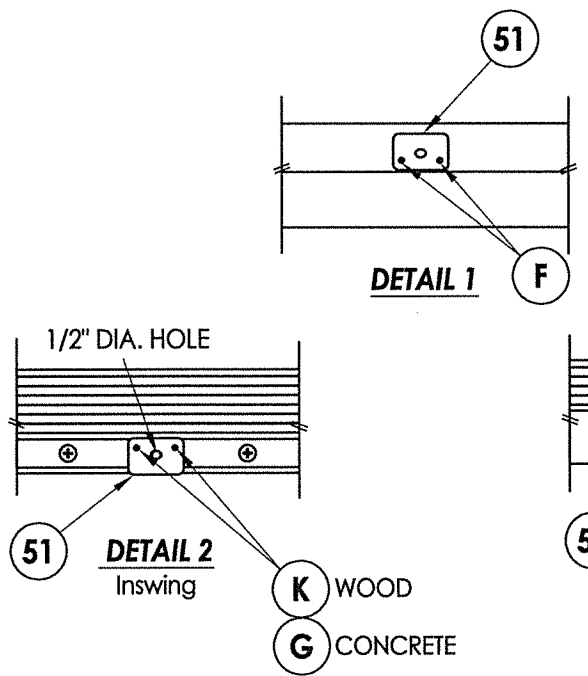
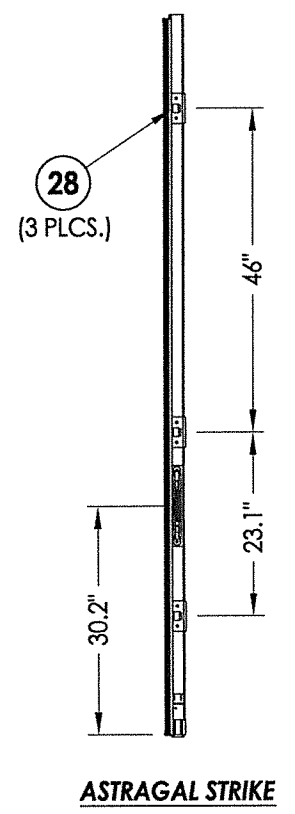
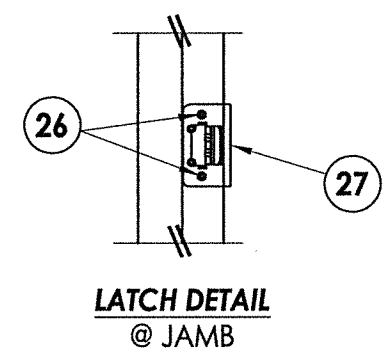
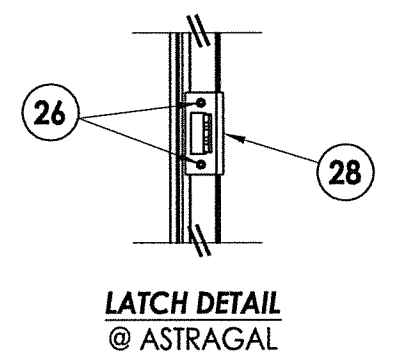
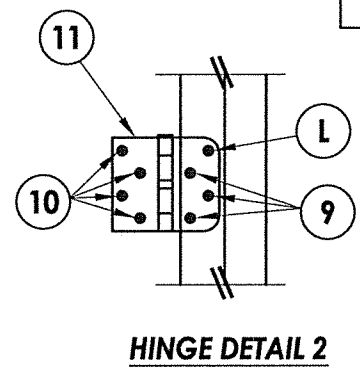
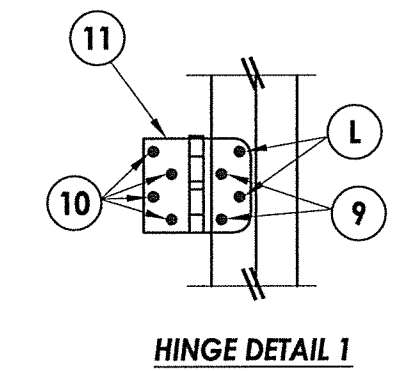
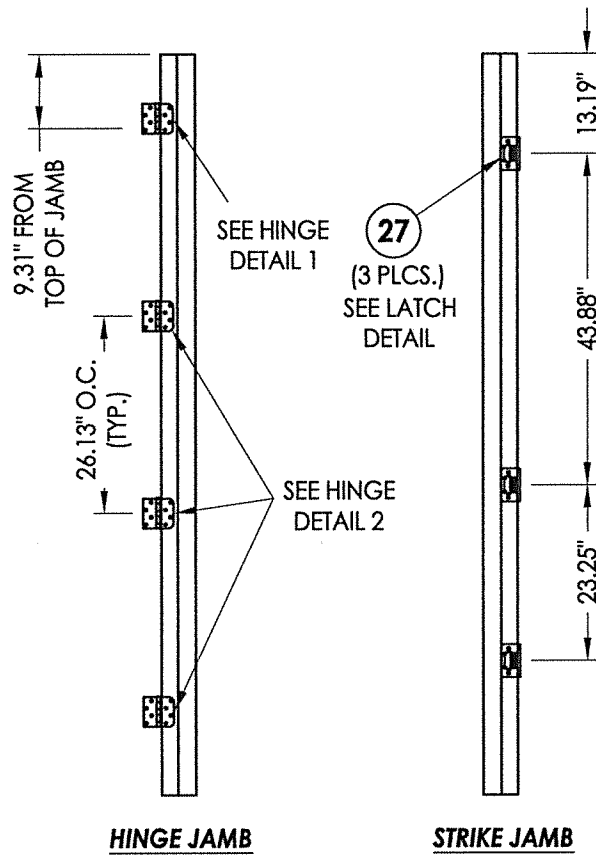
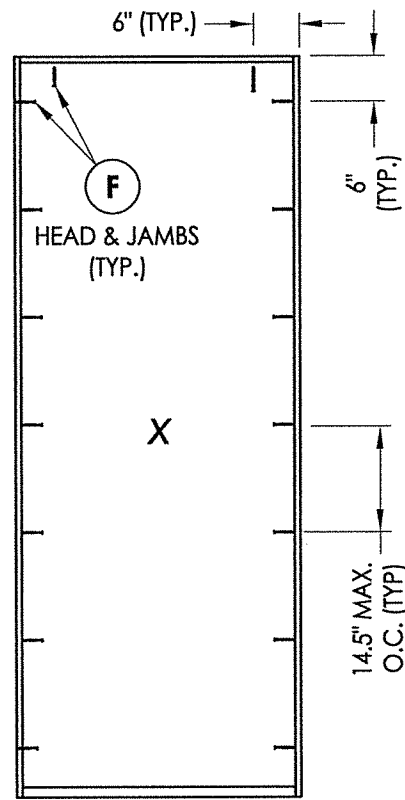
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

| NO. | DATE | BY | REVISIONS |
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DATE: 6/17/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5217
SHEET 5 OF 7

Z:\Clients\Endura PERMANENT\B - Texas Dept of Ins\TDI - DR-XXXX (Sub ID ...) OPAQUE X XX PANOLOCK - IMPACT\TX-5217.dwg



Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA
PART OR ASSEMBLY: FRAME ANCHORING

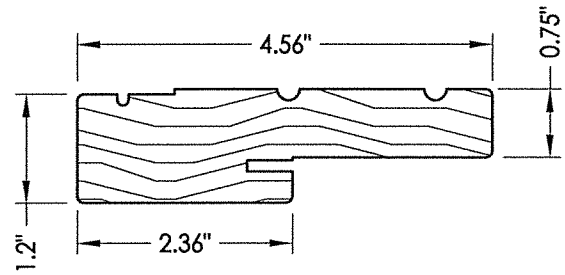
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DATE: 6/17/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5217
SHEET 6 OF 7

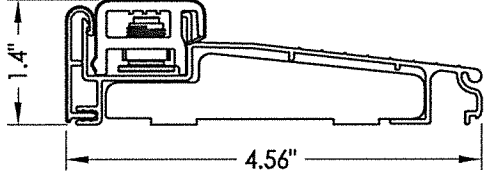
Z:\Clients\Endura PERMANENT\B - Texas Dept of Ins\TDI - DR-XXXX (Sub ID) OPAQUE X XX PANOLOCK - IMPACTC - Drawings\TX-5217.dwg

BILL OF MATERIALS

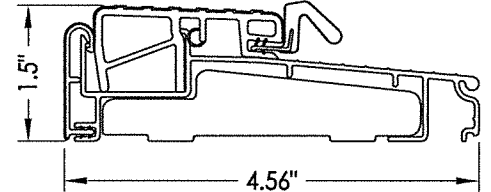
| ITEM # | DESCRIPTION | MATERIAL |
|--------|---|-----------|
| B | 2X FRAMING (SG >= 0.42) | WOOD |
| C | 1/4" MAX. SHIM SPACE | - |
| D | 1/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT) | STEEL |
| F | #10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT) | STEEL |
| G | 3/16" PFH ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT) | STEEL |
| K | #10 FH WOOD SCREW (1-3/4" MIN. EMBEDMENT) | STEEL |
| 1 | FINGER JOINTED PINE JAMB | WOOD |
| 7 | WEATHERSTRIP | FOAM |
| 8 | SWEEP | PVC |
| 9 | #9 X 3/4" PFH WOOD SCREW | STEEL |
| 10 | #9 X 1" PFH WOOD SCREW | STEEL |
| 11 | 4" X 4" BUTT HINGE | STEEL |
| 13 | INSWING THRESHOLD | ALUM/COMP |
| 14 | OUTSWING THRESHOLD | ALUM/COMP |
| 26 | #8 X 2-1/2" PFH WOOD SCREW | STEEL |
| 27 | LATCH STRIKE PLATE (JAMB) | STEEL |
| 28 | LATCH STRIKE PLATE (ASTRAGAL) | STEEL |
| 40 | DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS | - |
| 50 | ENDURA ULTIMATE PANOLOCK ASTRAGAL | ALUM |
| 51 | ASTRAGAL BOLT STRIKE PLATE | STEEL |
| 52 | #10 X 1-1/2" FH WOOD SCREW | STEEL |



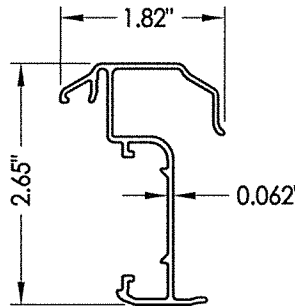
1 WOOD JAMB



13 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



14 OUTSWING THRESHOLD
ZOBL4565



50 ENDURA ULTIMATE PANOLOCK ASTRAGAL

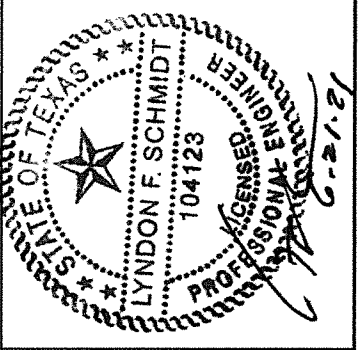
CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

| ANCHOR TYPE | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|----------------------|-------------|----------------|--------------------------------|-----------------------------------|
| ITW BUILDDEX TAPCON® | 3/16" | 1-3/4" | 3" | 1-1/2" |
| | 1/4" | 1-3/4" | 2" | 4" |
| DeWALT ULTRACON® | 1/4" | 1-3/4" | 1" | 4" |

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



Documents Prepared By: Lyndon F. Schmidt, P.E.
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RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

| NO. | DATE | BY | REVISIONS |
|-----|------|----|-----------|
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| | | | |
| | | | |

DATE: 6/17/21

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: TX-5217

SHEET 7 OF 7