



NEMO|etc.

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ENGINEER

EVALUATE

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CONSULT

CERTIFY

EVALUATION REPORT

CertainTeed Corporation

20 Moores Road
Malvern, PA 19355
(610) 651-5847

Evaluation Report 3532.09.05-R14

FL5444-R13

Date of Issuance: 09/22/2005

Revision 14: 01/24/2018

SCOPE:

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the **6th Edition (2017) Florida Building Code** sections noted herein.

DESCRIPTION: CertainTeed Asphalt Roof Shingles.

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and **FBC 1507.2.7.1 / R905.2.6.1**

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

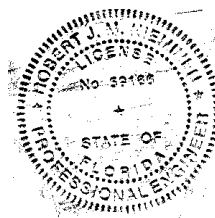
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 13.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 01/24/2018. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO|etc. does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO|etc. is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO|etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Asphalt Shingles

Compliance Statement: CertainTeed Asphalt Roof Shingles, as produced by CertainTeed Corporation, have demonstrated compliance with the following sections of the 6th Edition (2017) Florida Building Code and 6th Edition (2017) Florida Building Code, Residential Volume through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1507.2.5, R905.2.4	Physical Properties	ASTM D3462	2010
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161	2016
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158	2011

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
UL (TST 1740)	ASTM D3161	94NK9632	05/15/1998
UL (TST 1740)	ASTM D3161	99NK26506	11/23/1999
UL (TST 1740)	ASTM D3161	03CA12702	05/27/2003
UL (TST 1740)	ASTM D3161	03CA12702	06/16/2003
UL (TST 1740)	ASTM D3161	03NK29847	10/03/2003
UL (TST 1740)	ASTM D3161	04CA11329	05/24/2004
UL (TST 1740)	ASTM D3161	04CA32986	12/03/2004
UL (TST 1740)	ASTM D3161	05NK07049	04/15/2005
UL (TST 1740)	ASTM D3161	05NK16778	05/12/2005
UL (TST 1740)	ASTM D3161	05CA16778	05/12/2005
UL (TST 1740)	ASTM D3161	05NK14836	05/22/2005
UL (TST 1740)	ASTM D3161	05NK22800	06/22/2005
UL (TST 1740)	ASTM D3462	R684	09/21/2005
UL (TST 1740)	ASTM D7158	05NK08037	06/28/2006
UL (TST 1740)	ASTM D3161 & D3462	09CA28873	07/23/2009
UL (TST 1740)	ASTM D3462	10CA41303	10/07/2010
UL (TST 1740)	ASTM D3161	10CA41303	10/08/2010
UL (TST 1740)	ASTM D7158	10CA41303	10/27/2010
UL (TST 1740)	ASTM D3161 & D3462	10CA44960	11/11/2010
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	13CA32897	11/21/2013
UL LLC (TST 9628)	ASTM D3161, D3462	TFWZ.R684	04/22/2014
UL LLC (TST 9628)	ASTM D7158	TGAH.R684	04/22/2014
UL LLC (TST 9628)	ASTM D3161 & D3462	4786334434	09/16/2014
UL LLC (TST 9628)	ASTM D3161 & D3462	4786570826	02/12/2015
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4786570717	12/16/2015
UL LLC (TST 9628)	ASTM D3161 & D3462	4787195678	02/09/2016
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4787380356	10/26/2016
UL LLC (TST 9628)	ASTM D3462	4787380357	10/13/2016
UL LLC (TST 9628)	ASTM D7158	4787380357	11/08/2016
UL LLC (TST 9628)	ASTM D3161	4787380357	11/09/2016
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4787586427	01/25/2017
UL LLC (TST 9628)	ASTM D3161 & D3462	4788042412	11/15/2017
UL LLC (QUA 9625)	Quality Control	Service Confirmation	Exp. 03/09/2020

4. PRODUCT DESCRIPTION:

4.1 Asphalt Shingles:

- 4.1.1 **CT20™, XT™ 25, XT™ 30 and XT™ 30 IR** are fiberglass reinforced, 3-tab asphalt roof shingles.
- 4.1.2 **Arcadia™, Belmont®, Belmont® IR, Carriage House Shangle®, Grand Manor Shangle®, Landmark™, Landmark™ IR, Landmark™ Pro, Landmark™ Premium, Landmark™ TL, Landmark™ Solaris and Landmark™ Solaris IR** are fiberglass reinforced, laminated asphalt roof shingles.
- 4.1.3 **NorthGate™** is a fiberglass reinforced, laminated, SBS modified bitumen roof shingle.
- 4.1.4 **Presidential Shake™, Presidential Shake™ IR, Presidential Shake TL™ and Presidential Solaris™** are fiberglass reinforced, architectural asphalt roof shingles.
- 4.1.5 **Hatteras™, Highland Slate™ and Highland Slate™ IR** are fiberglass reinforced, 4-tab asphalt roof shingles.
- 4.1.6 **Patriot™** is a fiberglass reinforced asphalt roof strip-shingle (with no cut-outs) providing a laminated appearance through an intermittent shadow line with contrasting blend drops for color definition.

4.2 Hip & Ridge Shingles:

- 4.2.1 **Presidential Accessory, Accessory for Hatteras, Shangle Ridge™, Shadow Ridge™, Cedar Crest™, Cedar Crest™ IR, NorthGate Ridge and NorthGate Accessory** are fiberglass reinforced accessory shingles for hip and ridge installation.

4.3 Accessory Starter Strips:

- 4.3.1 **SwiftStart® Starter Shingle** is a starter strip for asphalt roof shingles. Its overall size of 15-1/4" x 38-3/4" yields two (2) 7-5/8" x 38-3/4" starter pieces per shingle.
- 4.4 Any of the above listed shingles may be produced in AR (algae resistant) versions.

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO|etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use within FBC HVHZ jurisdictions.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.4 Wind Classification:
- 5.4.1 All shingles noted herein are Classified in accordance with **FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F** and/or **ASTM D7158, Class H**, indicating the shingles are acceptable for use in all wind zones up to $V_{asd} = 150$ mph ($V_{ult} = 194$ mph). Refer to Section 6 for installation requirements to meet this wind rating.
- 5.4.2 **Presidential Accessory, Accessory for Hatteras, Shangle Ridge, Shadow Ridge, Cedar Crest, NorthGate Ridge and NorthGate Accessory hip & ridge shingles** have been evaluated in accordance with **ASTM D3161, Class F**. All except **NorthGate Ridge and NorthGate Accessory** require use of **BASF Sonolastic NP 1 adhesive** or **Henkel PL® Polyurethane Roof & Flashing Sealant**, applied as specified in manufacturer's application instructions, for use in wind zones up to $V_{asd} = 150$ mph ($V_{ult} = 194$ mph). Refer to Section 6 for installation requirements to meet this wind rating.
- 5.4.3 **SwiftStart® Starter Shingle** has been evaluated in accordance with **ASTM D3161, Class F**. Refer to Section 6 for installation requirements to meet this wind rating.
- 5.4.4 Classification by **ASTM D7158** applies to **exposure category B or C** and a **building height of 60 feet or less**. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.

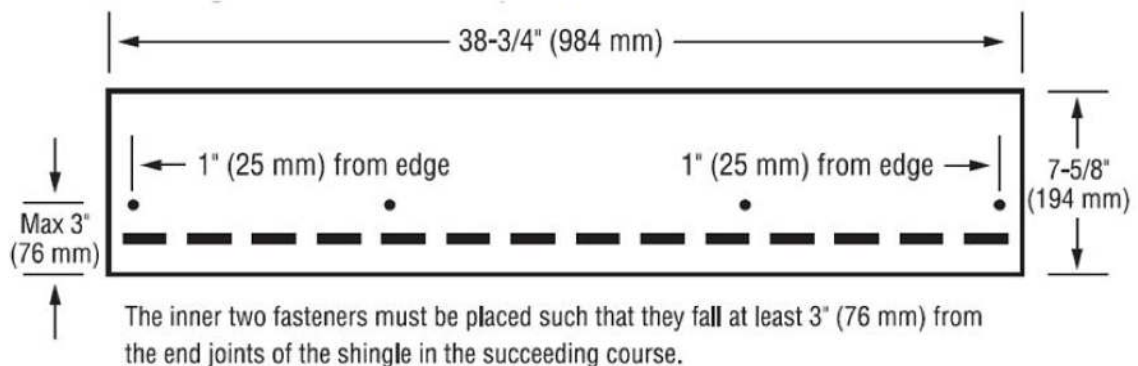
- 5.4.4.1 **Analysis in accordance with ASTM D7158** indicates the measured uplift resistance (R_T) for the CertainTeed asphalt Roof shingles listed in Section 4.1 through 4.6 (*except Presidential Solaris™*) exceeds the calculated uplift force (F_T) at a maximum design wind speed of $V_{asd} = 150$ mph ($V_{ult} = 194$ mph) for **residential buildings** located in **Exposure D conditions** with **no topographical variations (flat terrain)** having a **mean roof height less than or equal to 60 feet**. The shingles are permissible under Code for installation in these conditions using the installation procedures detailed in this Evaluation Report and CertainTeed minimum requirements, subject to minimum codified fastening requirements established within any local jurisdiction, which shall take precedence.
- 5.5 All products in the roof assembly shall have quality assurance audits in accordance with **FAC Rule 61G20-3**.

6. INSTALLATION:

- 6.1 Roof deck, slope, underlayment and fasteners shall comply with **FBC 1507.2 / R905.2** and the shingle manufacturer's minimum requirements.
- 6.1.1 Underlayment shall be acceptable to **CertainTeed Corporation** and shall hold current Florida Statewide Product Approval, or be Locally Approved per **Rule 61G20-3**, per **FBC Sections 1507.2.3, 1507.2.4 or R905.2.3**.
- 6.2 Installation of asphalt shingles shall comply with the **CertainTeed Corporation** current published instructions, using minimum four (4) nails per shingle in accordance with **FBC 1507.2.7 or Section R905.2.6** and the minimum requirements herein.
- 6.2.1 Fasteners shall be in accordance with manufacturer's published requirements, but not less than **FBC 1507.2.6 or R905.2.5**. Staples are not permitted.
- 6.2.2 Where the roof slope exceeds 21 units vertical in 12 units horizontal, use the "Steep Slope" directions.
- 6.3 CertainTeed asphalt shingles are acceptable for use in reroof (tear-off) or recover applications, subject to the limitations set forth in **FBC Section 1511 or R908** and CertainTeed published installation instructions.

6.4 SWIFTSTART® STARTER SHINGLE:

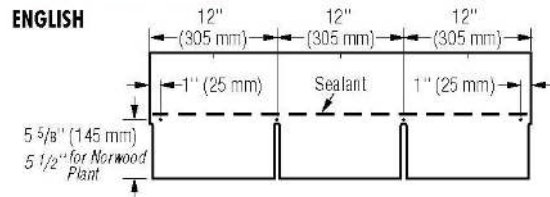
Fastening: Use four nails, located as shown below



6.5 CT20™, XT™ 25, XT™ 30, XT™ 30 IR:

LOW AND STANDARD SLOPE

ENGLISH



METRIC

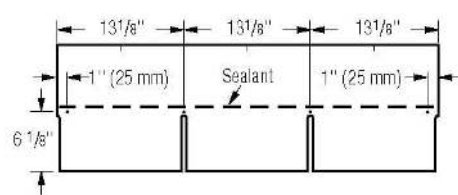
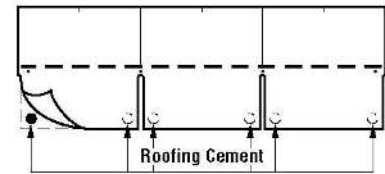


Figure 11-3: Use **four** nails for every full shingle.

STEEP SLOPE

Use **four** nails and six spots of asphalt roofing cement* for every full shingle (Figure 11-4). Asphalt roofing cement meeting ASTM D4586 Type II is suggested.



Apply 1" (25 mm) spots of asphalt roofing cement under each tab corner.

Figure 11-4: Use **four** nails and six spots of asphalt cement on steep slopes.

***CAUTION:** Excessive use of roofing cement can cause shingles to blister.

6.5.1 Hip & Ridge for CT20™, XT™ 25, XT™ 30, XT™ 30 IR: Cut Shingles

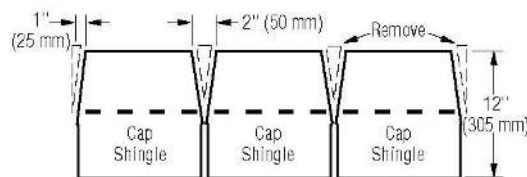


Figure 11-24: Cut tabs, then trim back to make cap shingles (English dimensions shown).

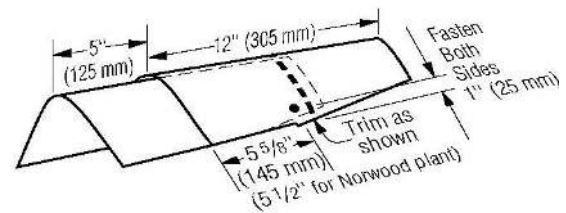


Figure 11-25: Installation of caps along the hips and ridges.

- 6.5.1.1 For **ASTM D3161, Class F** performance use BASF “**Sonolastic® NP1™**” adhesive or Henkel “**PL® Polyurethane Roof & Flashing Sealant**”, in accordance with CertainTeed requirements.

6.6 ARCADIA™:

LOW AND STANDARD SLOPE

Use **SIX** nails for every full shingle located as shown below.

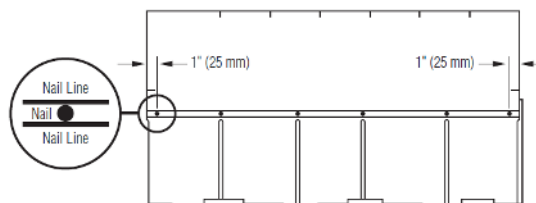


Figure 2: Use **six** nails for every full shingle.

STEEP SLOPE

Use **SIX** nails and **FOUR** spots of asphalt roofing cement for every full shingle as shown below. Apply asphalt roofing cement 1" (25 mm) from edge of shingle. Asphalt roofing cement meeting ASTM D 4586 Type II is suggested.

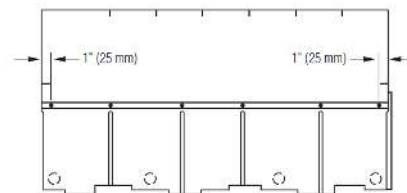
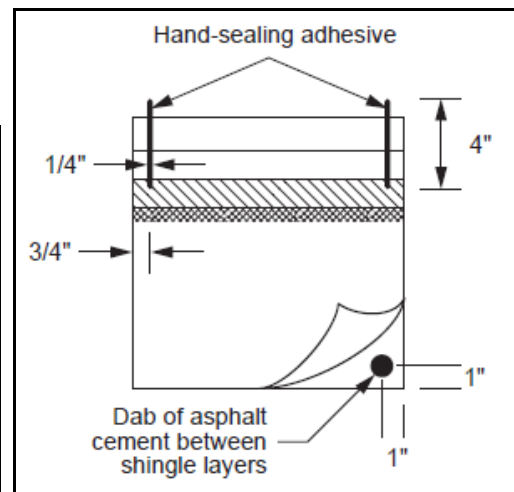
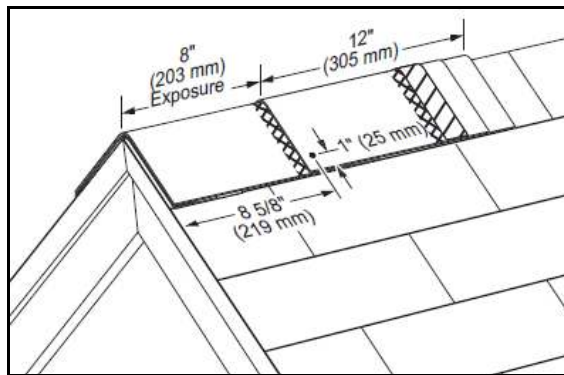


Figure 3: Use **six** nails and **four** spots of asphalt roofing cement on steep slopes.

6.6.1 **Hip & Ridge for Arcadia™: Cedar Crest™, Cedar Crest™ IR**

Use two (2), minimum 1¼-inch long fasteners per shingle. For the starter shingle, place fastener 1-inch from each side edge and about 2-inch up from the starter shingle's exposed butt edge, ensuring minimum ¾-inch embedment into the deck, or full penetration through the deck. For each full Cedar Crest shingle, place fasteners 8-5/8-inch up from its exposed butt edge and 1-inch from each side edge.

For **ASTM D3161, Class F** performance use BASF "Sonolastic® NP1™" adhesive or Henkel "PL® Polyurethane Roof & Flashing Sealant", in accordance with CertainTeed requirements, to **hand-seal Cedar Crest shingles**. Apply NP 1 or PL adhesive from the middle of the shingle's raised overlay on the top piece and extending approximately 4-inch along the sides of the headlap along a line ¾ to 1-inch from each side of the shingle's headlap. Immediately align and apply the overlying shingle, gently pressing tab sides into the adhesive, and install nails. To secure the other side, apply a 1-inch diameter spot of NP 1 or PL adhesive between the shingle layers.

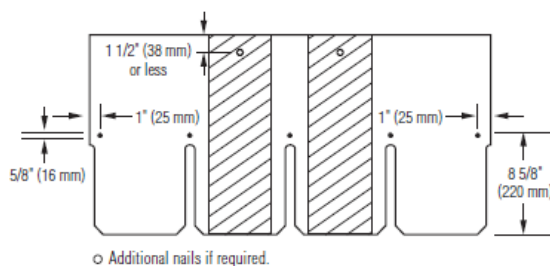


6.7 **BELMONT® OR BELMONT® IR:**

Low and Standard Slope

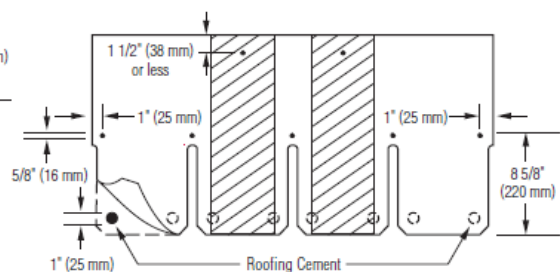
(2:12 to 21:12):

Use FIVE nails for every full Belmont shingle, located as shown below.



Steep Slope (greater than 21:12):

Use SEVEN nails and EIGHT spots of asphalt roofing cement** for every full Belmont shingle. Apply asphalt roofing cement 1" (25mm) from edge of shingle. See below. Asphalt roofing cement meeting ASTM D4586 Type II is suggested.



6.7.1 **Hip & Ridge for Belmont® or Belmont® IR:**

6.7.1.1 **Option 1:** For Belmont®, refer to instructions herein for **Cedar Crest™** or **Cedar Crest™ IR** hip and ridge shingles. For Belmont® IR, refer to instructions herein for **Cedar Crest™ IR** hip and ridge shingles.

6.7.1.2 **Option 2:** For Belmont®: **Shangle® Ridge**

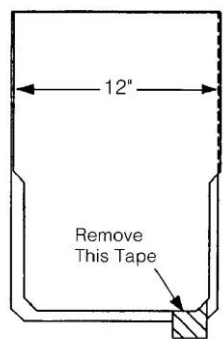


Figure 17-18: Shangle® Ridge.

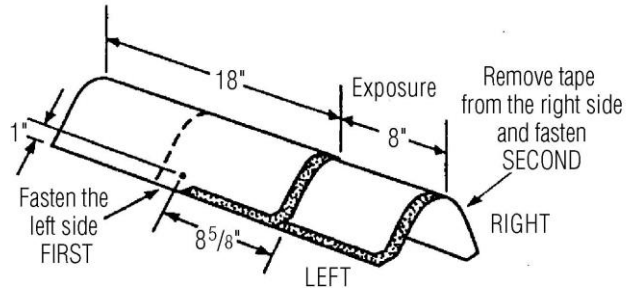


Figure 17-19: Installation of Shangle® Ridge shingles on hips and ridges.

6.7.1.3 For **ASTM D3161, Class F** performance use BASF “**Sonolastic® NP1™**” adhesive or Henkel “**PL® Polyurethane Roof & Flashing Sealant**”, in accordance with CertainTeed requirements.

6.8 **CARRIAGE HOUSE SHANGLE® AND GRAND MANOR SHANGLE®:**

LOW AND STANDARD SLOPE

Use **five** nails for every full Shangle.

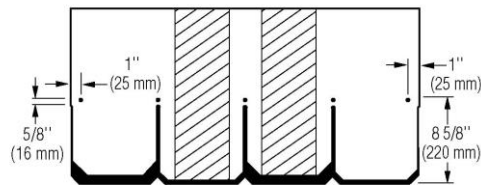


Figure 17-4: Use five nails for every full Grand Manor Shangle, Carriage House Shangle, or Centennial Slate.

STEEP SLOPE

Use **seven** nails and three spots of asphalt roofing cement for every full Grand Manor Shangle. Use **five** nails and three spots of asphalt roofing cement for every full Carriage House Shangle and Centennial Slate. Apply asphalt roofing cement 1" (25 mm) from edge of shingle (Figure 17-5). Asphalt roofing cement meeting ASTM D4586 Type II is suggested.

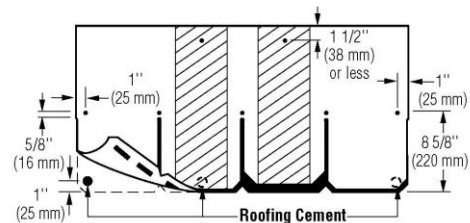


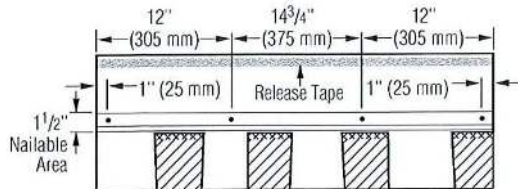
Figure 17-5: When installing Grand Manor Shangles on steep slopes, use **seven** nails and three spots of asphalt roofing cement.

6.8.1 **Hip & Ridge for Carriage House Shangle® and Grand Manor Shangle:** Refer to instructions herein for **Shangle® Ridge** hip and ridge shingles

6.9 LANDMARK™, LANDMARK™ IR, LANDMARK™ PRO, LANDMARK™ PREMIUM, LANDMARK™ TL, LANDMARK™ SOLARIS, LANDMARK™ SOLARIS IR, NORTHGATE:

LOW AND STANDARD SLOPE

METRIC DIMENSIONS



LANDMARK TL

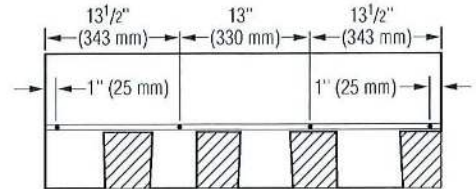
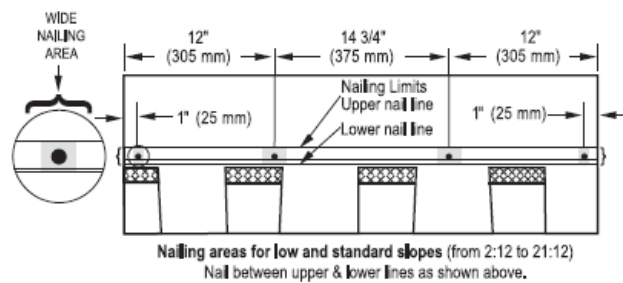


Figure 13-4: Use four nails for every full shingle.

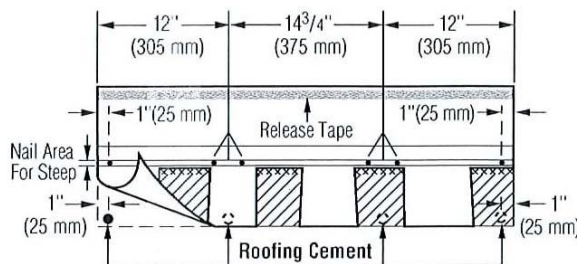
NorthGate:



STEEP SLOPE

Use six nails and four spots of asphalt roofing cement for every full laminated shingle. See below. Asphalt roofing cement should meet ASTM D4586 Type II. Apply 1" spots of asphalt roofing cement under each corner and at about 12" to 13" in from each edge.

METRIC DIMENSIONS



LANDMARK TL

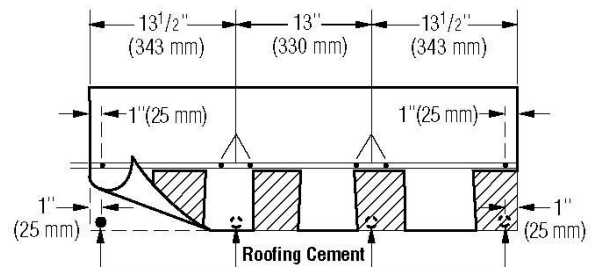
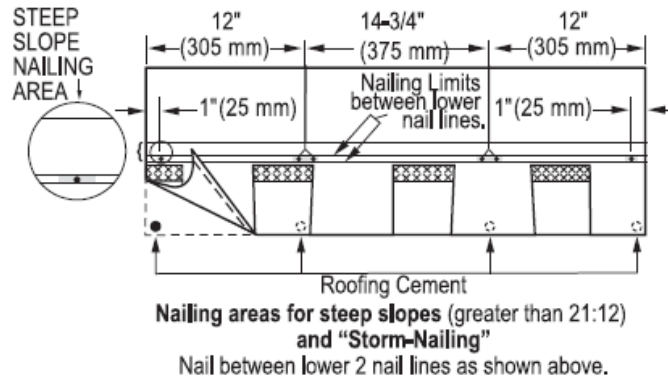


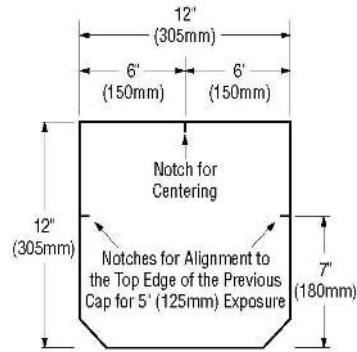
Figure 13-5: Use six nails and four spots of asphalt roofing cement on steep slopes.

NorthGate:

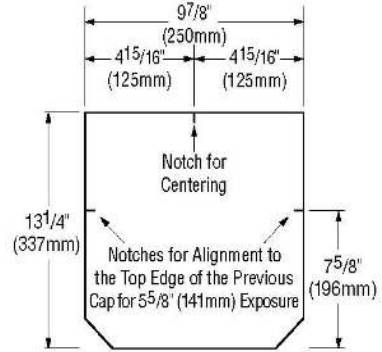


6.9.1 **Hip & Ridge for Landmark™, Landmark™ IR, Landmark™ Pro, Landmark™ Premium, Landmark™ TL, Landmark™ Solaris, Landmark™ Solaris IR, NorthGate:**

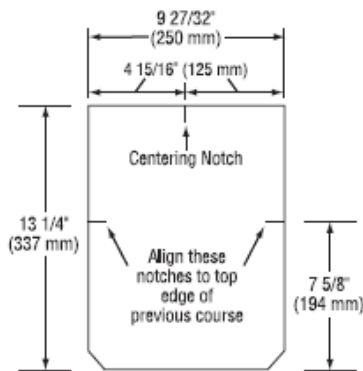
6.9.1.1 **Option 1: Shadow Ridge™ or NothGate Accessory**



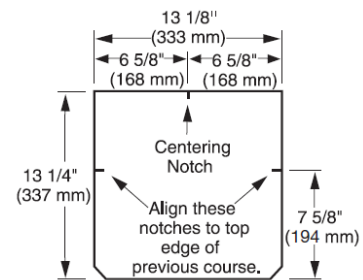
English Dimension
Shadow Ridge™



Metric Dimension
Shadow Ridge™



NorthGate Ridge



NorthGate Accessory

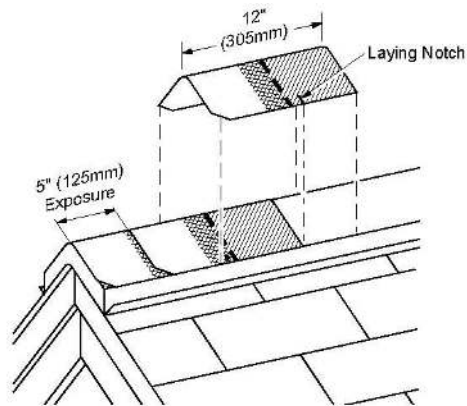


Figure 13-20: Use laying notches to center shingles on hips and ridges, and to locate the correct exposure.

6.9.1.2 For **ASTM D3161, Class F** performance use BASF “**Sonolastic® NP1™**” adhesive or Henkel “**PL® Polyurethane Roof & Flashing Sealant**”, in accordance with CertainTeed requirements.

6.9.1.3 **Option 2:** Refer to instructions herein for **Cedar Crest™, Cedar Crest™ IR** hip and ridge shingles.

6.10 PRESIDENTIAL SHAKE™, PRESIDENTIAL SHAKE™ IR, PRESIDENTIAL SHAKE TL™, PRESIDENTIAL SOLARIS™:

LOW AND STANDARD SLOPE:

For low and standard slopes, use five nails for each full Presidential shingle as shown below.

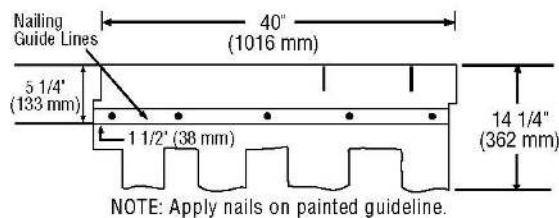


Figure 16-6: Fastening Presidential and Presidential TL Shake shingles on low and standard slopes.

STEEP SLOPE:

For steep slopes, use nine nails for each full Presidential shingle and apply 1" diameter spots of asphalt roofing cement under each shingle tab. After applying 5 nails in between the nailing guide lines, apply 4 nails 1" above tab cutouts making certain tabs of overlying shingle cover nails.

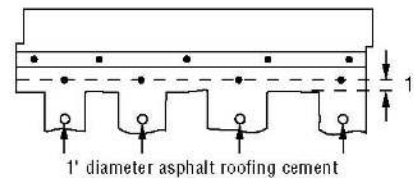


Figure 16-7: Fastening Presidential and Presidential TL Shake shingles on steep slopes.

6.10.1 **Hip & Ridge for Presidential Shake™, Presidential Shake™ IR, Presidential Shake TL™, Presidential Solaris™:**

6.10.1.1 **Option 1:** Presidential Accessory

PRESIDENTIAL ACCESSORY

Presidential accessory shingles can be used for covering hips and ridges. Apply shingles up to the ridge (expose no more than 7" from the bottom edge of the “tooth.” Fasten each accessory with two fasteners. The fasteners must be 1 3/4" long or longer, so they penetrate either 3/4" into the deck or completely through the deck. Presidential accessory comes in two different sizes: Accessory produced in Birmingham, AL is 12" x 12"; Portland, OR produces 9 7/8" x 13 1/4" accessory.

6.10.1.2 For **ASTM D3161, Class F** performance use BASF “**Sonolastic® NP1™**” adhesive or Henkel “**PL® Polyurethane Roof & Flashing Sealant**”, in accordance with CertainTeed requirements.

6.10.1.3 **Option 2:** Refer to instructions herein for **Cedar Crest™**, **Cedar Crest™ IR** hip and ridge shingles.

6.11 HATTERAS™:

LOW, STANDARD AND STEEP SLOPE:

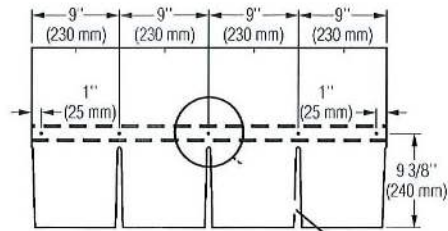


Figure 15-3: Fastening Hatteras Shingles on Low and Standard Slopes

For low and standard slopes, use five nails for each full Hatteras shingle as shown above.

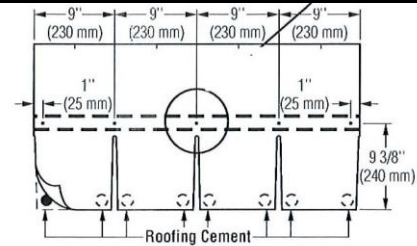


Figure 15-4: Fastening Hatteras Shingles on Steep Slopes

For steep slopes, use five nails and eight spots of asphalt roofing cement for each full Hatteras shingle as shown above. Apply 1" (25mm) diameter spots of roofing cement (ASTM D 4586 Type II suggested) under each tab corner. Press shingle into place; do not expose cement.

CAUTION: Too much roofing cement can cause shingles to blister.

6.11.1 Hip & Ridge for Hatteras™:

6.11.1.1 **Option 1:** Accessory for Hatteras

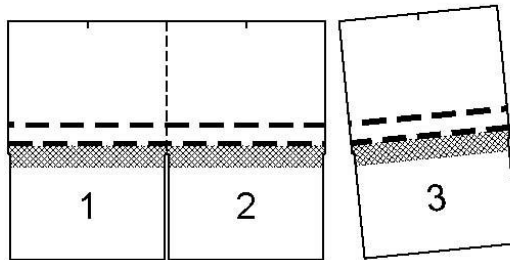
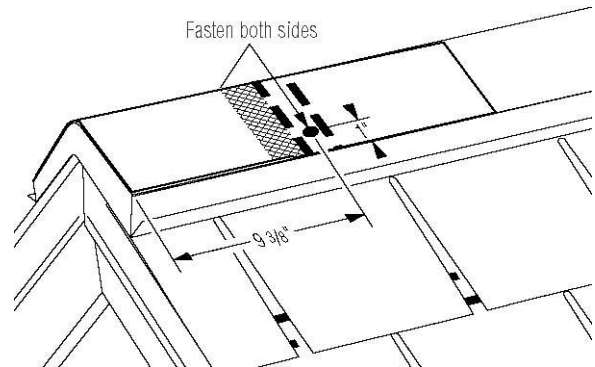


Figure 15-14: 18 three-piece units separate to make 54 Hatteras Accessory shingles.



6.11.1.2 **Option 2:** Cut Hatteras Shingles

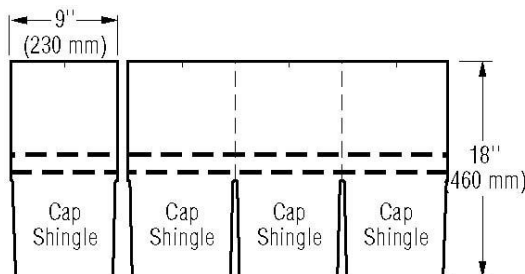


Figure 15-20: Cut Hatteras shingles to make cover cap.

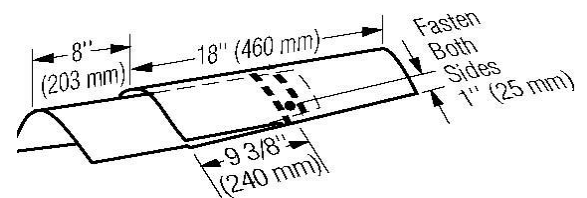


Figure 15-21: Installation of caps along hips and ridges.

6.11.1.3 For **ASTM D3161, Class F** performance use BASF "**Sonolastic® NP1™**" adhesive or Henkel "**PL® Polyurethane Roof & Flashing Sealant**", in accordance with CertainTeed requirements.

6.12 HIGHLAND SLATE™, HIGHLAND SLATE™ IR:

LOW AND STANDARD SLOPE:

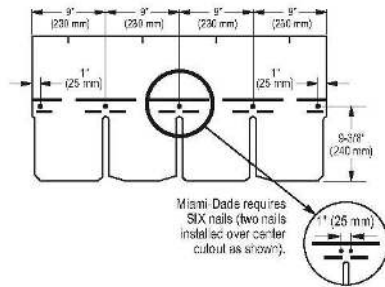


Figure 11-3: Use FIVE nails for every Highland Slate shingle.

STEEP SLOPE:

Use **FIVE** nails and **EIGHT** spots of asphalt roofing cement® for each full Highland Slate shingle. For Miami-Dade, **SIX** nails are required. Apply 1" diameter spots of asphalt roofing cement under each tab corner. Asphalt roofing cement meeting ASTM D4586 Type II is suggested.

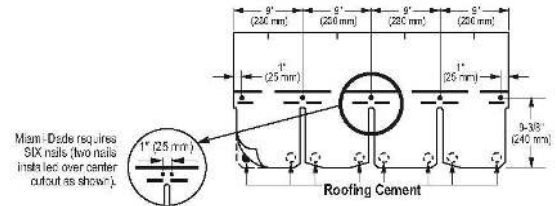


Figure 11-3A: Use FIVE nails and eight spots of asphalt roofing cement under each tab corner.

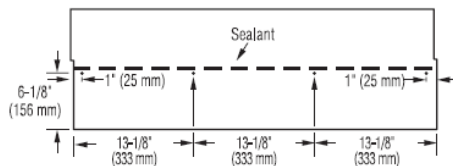
***CAUTION:** Excessive use of roofing cement can cause shingles to blister.

- 6.12.1 **Hip & Ridge for Highland Slate™, Highland Slate™ IR:** Refer to instructions herein for **Cedar Crest™**, **Cedar Crest™ IR** or **Shangle Ridge™** hip and ridge shingles.

6.13 PATRIOT™:

LOW AND STANDARD SLOPE

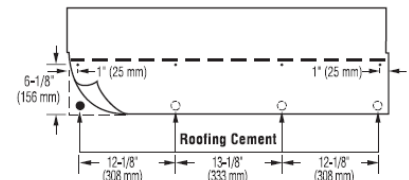
Use **FOUR** nails for every full shingle located as shown below.



STEEP SLOPE

Use **FOUR** nails and four spots of asphalt roofing cement for every full shingle as shown below. Asphalt roofing cement meeting ASTM D4586 Type II is suggested. Apply 1" (25 mm) spots of asphalt roofing cement as shown.

CAUTION: Excessive use of roofing cement can cause shingles to blister.



- 6.13.1 **Hip & Ridge for Patriot™:** Refer to instructions herein for **Cedar Crest™**, **Cedar Crest™ IR**, **Shadow Ridge™**, **NorthGate** or **Shangle Ridge™** hip and ridge shingles.

7. LABELING:

- 7.1 Each unit shall bear a permanent label with the manufacturer's name, logo, city, state and logo of the Accredited Quality Assurance Agency noted herein.
- 7.2 Asphalt shingle wrappers shall indicate compliance with one of the required classifications detailed in **FBC Table 1507.2.7.1 / R905.2.6.1**.

8. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

9. MANUFACTURING PLANTS:

Contact the named QA entity for information on which plants produce products covered by **Florida Rule 61G20-3** QA requirements.

10. QUALITY ASSURANCE ENTITY:

UL LLC – QUA9625; (414) 248-6409; karen.buchmann@us.ul.com

- END OF EVALUATION REPORT -

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Strong-Wall Shearwalls



Anchor Systems

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HGLBC	10866.9
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HGLST5-9	10667.17
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HGU7.00-SDS	11468.1
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HGUM5.25	11473.7
HGUM5.50	11473.7
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HGUS5.50/12	11468.11
HGUS5.50/14	11468.11
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HSS2-SDS1.5	10864.2
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HSUL414	10655.11
HSUL414	10531.5
HSUL46	10655.12
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HSUR46	10531.9
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HU314-2	10531.22
HU314TF	10856.5
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HU316	10531.23
HU316TF	10856.5
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HU36	10655.42
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HU38TF	10856.6
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HU410TF	10856.7
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HU412TF	10856.7

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HU416	10531.41
HU416TF	10856.7
HU44	10655.48
HU44TF	10856.8
HU46	10655.49
HU46TF	10856.8
HU48	10655.50
HU48TF	10856.8
HU610	10655.51
HU610	10531.42
HU610TF	10856.9
HU612	10655.52
HU612	10531.43
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HUC410	10655.78
HUC410	10531.56
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HUC412	10531.57
HUC414	10655.80
HUC414	10531.58
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HUC416	10531.59
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HUC46	10655.83
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HUC610	10531.60
HUC610	10655.85
HUC612	10531.61
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HUC614	10531.62
HUC614	10655.87
HUC616	10531.63
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HUCQ1.81/9-SDS	11468.16
HUCQ210-2-SDS	11468.16
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HUCQ310-SDS	11468.17
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HUCQ5.25/9-SDS	11468.17
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HUS26	10655.94
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HUS28-2TF	10856.10
HUS410	10531.64
HUS410	10655.98
HUS410TF	10856.10
HUS412	10531.65
HUS412	10655.99
HUS412TF	10856.10
HUS414TF	10856.10
HUS46	10655.100
HUS46	10531.66
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HWU2.75/9.5	10667.51
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HWU3.56/14	10667.52
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ITS2.06/9.5	10667.60
ITS2.37/11.88	10667.61
ITS2.37/14	10667.61
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ITS2.37/9.5	10667.61
ITS2.56/11.25	10667.62
ITS2.56/11.88	10667.62
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ITS2.56/9.37	10667.62
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ITS3.56/11.25	10667.63
ITS3.56/11.88	10667.63
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ITS3.56/9.37	10667.63
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ITT11.88	10667.64
ITT14	10667.64
ITT16	10667.64
ITT2.06/11.88	10667.65
ITT2.06/14	10667.65
ITT2.06/16	10667.65
ITT2.06/9.5	10667.65
ITT2.1/11.88	10667.66
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ITT2.1/9.5	10667.66
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IUT3510	10531.100
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IUT3514	10531.102
IUT410	10531.103
IUT412	10531.104
IUT414	10531.105
IUT9	10531.106
JB210	10856.13
JB212	10856.13
JB214	10856.13
JB26	10856.13
JB28	10856.13
L30	10446.11
L50	10446.12
L70	10446.13
L90	10446.14
LB210	10856.14
LB212	10856.14
LB214	10856.14
LB216	10856.14
LB26	10856.14
LB28	10856.14
LBV1.56/11.25	11166.22
LBV1.56/11.88	11166.22
LBV1.56/11.88L45	11166.22
LBV1.56/11.88R45	11166.22
LBV1.56/14	11166.22
LBV1.56/16	11166.22
LBV1.56/9.25	11166.22
LBV1.56/9.5	11166.22
LBV1.56/9.5L45	11166.22
LBV1.56/9.5R45	11166.22
LBV1.81/11.25	11166.23
LBV1.81/11.88	11166.23
LBV1.81/11.88L45	11166.23
LBV1.81/11.88R45	11166.23
LBV1.81/14	11166.23
LBV1.81/16	11166.23
LBV1.81/7.25	11166.23
LBV1.81/9.25	11166.23
LBV1.81/9.5	11166.23

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LBV1.81/9.5L45	11166.23
LBV1.81/9.5R45	11166.23
LBV2.06/11.88	11166.24
LBV2.06/14	11166.24
LBV2.06/16	11166.24
LBV2.06/9.5	11166.24
LBV2.1/11.88	11166.24
LBV2.1/14	11166.24
LBV2.1/16	11166.24
LBV2.1/9.5	11166.24
LBV2.37/11.25	11166.25
LBV2.37/11.88	11166.25
LBV2.37/14	11166.25
LBV2.37/16	11166.25
LBV2.37/18	11166.25
LBV2.37/20	11166.25
LBV2.37/9.5	11166.25
LBV2.56/11.25	11166.26
LBV2.56/11.88	11166.26
LBV2.56/13	11166.26
LBV2.56/14	11166.26
LBV2.56/16	11166.26
LBV2.56/18	11166.26
LBV2.56/20	11166.26
LBV2.56/22	11166.26
LBV2.56/24	11166.26
LBV2.56/26	11166.26
LBV2.56/28	11166.26
LBV2.56/30	11166.26
LBV2.56/9.25	11166.26
LBV2.56/9.37	11166.26
LBV2.56/9.5	11166.26
LBV3.12/11.25	11166.27
LBV3.12/11.88	11166.27
LBV3.12/14	11166.27
LBV3.12/16	11166.27
LBV3.12/9.25	11166.27
LBV3.12/9.5	11166.27
LBV3.56/11.25	11166.28
LBV3.56/11.88	11166.28
LBV3.56/12	11166.28
LBV3.56/13	11166.28
LBV3.56/14	11166.28
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LBV3.56/7.25	11166.28
LBV3.56/9.25	11166.28
LBV3.56/9.37	11166.28
LBV3.56/9.5	11166.28
LBV4.12/11.88	11166.29
LBV4.12/14	11166.29
LBV4.12/16	11166.29
LBV4.12/9.5	11166.29
LBV4.28/11.25	11166.30
LBV4.28/11.88	11166.30
LBV4.28/14	11166.30
LBV4.28/16	11166.30
LBV4.28/9.25	11166.30
LBV4.28/9.5	11166.30
LBV4.75/11.25	11166.31
LBV4.75/11.88	11166.31
LBV4.75/14	11166.31
LBV4.75/16	11166.31
LBV4.75/18	11166.31
LBV4.75/20	11166.31
LBV4.75/9.25	11166.31
LBV4.75/9.5	11166.31
LBV5.12/11.25	11166.32
LBV5.12/11.88	11166.32
LBV5.12/12	11166.32
LBV5.12/14	11166.32
LBV5.12/16	11166.32
LBV5.12/18	11166.32
LBV5.12/20	11166.32
LBV5.12/22	11166.32
LBV5.12/24	11166.32
LBV5.12/9.25	11166.32
LBV5.12/9.5	11166.32
LCE4	11478.4
LEG3	10667.71
LEG5	10667.71
LEG7	10667.71
LFTA	10456.28
LGT2	11470.6
LGT3-SDS2.5	11470.6
LGT4-SDS3	11470.6
LGU3.25-SDS	11468.19
LGU3.63-SDS	11468.19

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LGU5.25-SDS	11468.19
LGUM210-2-SDS	11473.12
LGUM210-3-SDS	11473.13
LGUM210-4-SDS	11473.14
LGUM26-2-SDS	11473.12
LGUM26-3-SDS	11473.13
LGUM26-4-SDS	11473.14
LGUM28-2-SDS	11473.12
LGUM28-3-SDS	11473.13
LGUM28-4-SDS	11473.14
LGUM410-SDS	11473.15
LGUM46-SDS	11473.15
LGUM48-SDS	11473.15
LPC4Z	10860.15
LPC6Z	10860.15
LS30	10446.15
LS50	10446.16
LS70	10446.17
LS90	10446.18
LSSU210	10447.8
LSSU210-2	10447.9
LSSU28	10447.10
LSSU410	10447.11
LSSUI25	10447.12
LSSUI35	10447.13
LSTA12	10852.4
LSTA15	10852.4
LSTA18	10852.4
LSTA21	10852.4
LSTA24	10852.4
LSTA30	10852.4
LSTA36	10852.5
LSTI49	10852.6
LSTI73	10852.6
LSU26	10447.14
LTA1	11473.16
LTB20	10864.3
LTB40	10864.3
LTHJA26	10444.1
LTHJL	10444.2
LTHJR	10444.3
LTP4	10446.19
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LU24	10655.103
LU26	10655.104
LU28	10655.105
LUC210Z	11169.3
LUC26Z	11169.3
LUS210	10655.106
LUS210-2	10655.107
LUS214-2	10655.108
LUS24	10655.109
LUS24-2	10655.110
LUS26	10655.111
LUS26-2	10655.112
LUS28	10655.113
LUS28-2	10655.114
LUS310	11468.20
LUS36	11468.20
LUS410	10655.115
LUS414	10655.116
LUS44	10655.117
LUS46	10655.118
LUS48	10655.119
MASA	13326.1
MASAP	13326.1
MASAPZ	13326.1
MASAZ	13326.1
MBHA3.12/11.25	10866.11
MBHA3.12/9.25	10866.11
MBHA3.56/11.25	10866.12
MBHA3.56/11.88	10866.12
MBHA3.56/14	10866.12
MBHA3.56/16	10866.12
MBHA3.56/18	10866.12
MBHA3.56/9.25	10866.12
MBHA5.50/11.25	10866.13
MBHA5.50/11.88	10866.13
MBHA5.50/14	10866.13
MBHA5.50/16	10866.13
MBHA5.50/18	10866.13
MBHA5.50/9.25	10866.13
MEG5	10667.72
MEG7	10667.72
META12	11473.17
META14	11473.17

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META16	11473.17
META18	11473.17
META20	11473.18
META22	11473.18
META24	11473.18
META40	11473.18
MGT	11470.7
MGU3.63-SDS	11468.21
MGU5.25-SDS	11468.21
MGU5.50-SDS	11468.21
MGU7.00-SDS	11468.21
MIT1.81/14	10667.73
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MIT11.88	10667.73
MIT211.88	10667.74
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MIT29.5	10667.74
MIT29.5-2	10667.74
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MIT3.31/9.5	10667.75
MIT311.88	10667.75
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MIT314	10667.75
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MIT316	10667.75
MIT318	10667.75
MIT320	10667.76
MIT322	10667.77
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MIT3511.88	10667.76
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MIT3514	10667.76
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MIT359.5	10667.76
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MIT411.88	10667.79

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MIT416	10667.79
MIT418	10667.79
MIT420	10667.79
MIT49.5	10667.79
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MIT9.5	10667.77
MIU1.56/11	10854.1
MIU1.56/14	10854.1
MIU1.56/7	10854.2
MIU1.56/9	10854.1
MIU1.81/11	10854.1
MIU1.81/14	10854.1
MIU1.81/16	10854.1
MIU1.81/18	10854.1
MIU1.81/7	10854.3
MIU1.81/9	10854.1
MIU2.1/11	10854.4
MIU2.37/11	10854.4
MIU2.37/14	10854.4
MIU2.37/16	10854.4
MIU2.37/18	10854.4
MIU2.37/20	10854.4
MIU2.37/7	10854.5
MIU2.37/9	10854.4
MIU2.56/11	10854.6
MIU2.56/13	10854.6
MIU2.56/14	10854.6
MIU2.56/16	10854.6
MIU2.56/18	10854.6
MIU2.56/20	10854.6
MIU2.56/9	10854.6
MIU3.12/11	10854.7
MIU3.12/9	10854.7
MIU3.56/11	10854.8
MIU3.56/14	10854.8
MIU3.56/16	10854.8
MIU3.56/18	10854.8
MIU3.56/20	10854.8
MIU3.56/9	10854.8
MIU4.12/11	10854.9
MIU4.12/14	10854.9
MIU4.12/16	10854.9
MIU4.12/9	10854.9
MIU4.28/11	10854.10
MIU4.28/14	10854.10
MIU4.28/16	10854.10

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MIU4.28/9	10854.10
MIU4.75/11	10854.11
MIU4.75/14	10854.11
MIU4.75/16	10854.11
MIU4.75/18	10854.11
MIU4.75/20	10854.11
MIU4.75/9	10854.11
MIU5.12/11	10854.12
MIU5.12/14	10854.12
MIU5.12/16	10854.12
MIU5.12/18	10854.12
MIU5.12/20	10854.12
MIU5.12/7	10854.13
MIU5.12/9	10854.12
MSC1.81	10667.80
MSC2	10667.80
MSC4	10667.80
MSC5	10667.80
MSCPT2	11468.22
MSCPT2-2	11468.22
MSCPT2-2N	11468.22
MSCPT2N	11468.22
MST27	10852.7
MST27HDG	10852.7
MST37	10852.7
MST37HDG	10852.7
MST48	10852.7
MST48HDG	10852.7
MST60	10852.7
MST60HDG	10852.7
MST72	10852.7
MSTA12	10852.8
MSTA12Z	10852.8
MSTA15	10852.8
MSTA15Z	10852.8
MSTA18	10852.9
MSTA18Z	10852.9
MSTA21	10852.9
MSTA21Z	10852.9
MSTA24	10852.9
MSTA24Z	10852.9
MSTA30	10852.9
MSTA30Z	10852.9
MSTA36	10852.9
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MSTA9	10852.10
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MSTC28	10852.11
MSTC40	10852.11
MSTC48B3	11470.8
MSTC52	10852.11
MSTC66	10852.11
MSTC66B3	11470.8
MSTC78	10852.11
MSTCM40	11473.19
MSTCM60	11473.19
MSTI26	10852.12
MSTI36	10852.12
MSTI48	10852.12
MSTI60	10852.12
MSTI72	10852.12
MTS12	10456.33
MTS16	10456.34
MTS18	10456.35
MTS20	10456.36
MTS24C	11470.9
MTS28C	11470.9
MTS30	10456.37
MTS30C	11470.9
MTSM16	11473.2
MTSM20	11473.2
MUS26	10655.120
MUS28	10655.121
NC2x10-16	10864.4
NCA2x10-12	10864.4
NCA2x10-16	10864.4
NCA2x12-12	10864.4
NCA2x12-16	10864.4
NCA2x8-12	10864.4
NCA2x8-16	10864.4
PC44	10860.16
PC44-16	10860.16
PC44-16Z	10860.16
PC46	10860.16
PC46-16	10860.16
PC46-16Z	10860.16
PC48	10860.16
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PC86	10860.17
PC88	10860.17
PF24	10856.15
PF24A	10856.15
PF24Z	10856.15
PF26	10856.15
PF26A	10856.15
PF26Z	10856.15
PFD24	10856.15
PFD26	10856.15
PFDS26	10856.15
PHD2	10441.10
PHD5	10441.11
PHD6	10441.12
RBC	11478.6
RBCP	11478.6
RCWB10	10864.5
RCWB12	10864.5
RCWB14	10864.5
RPS18	10864.6
RPS18Z	10864.6
RPS22	10864.6
RPS22Z	10864.6
RPS28	10864.6
RPS28Z	10864.6
RR	10856.16
RSP4	10456.38
RST-1	10456.39
RST-2	10456.40
RTC24	10865.5
RTC24Z	10865.5
RTC42	10865.5
RTC42Z	10865.5
RTC44	10865.5
SDS 1/4 X 1-1/2	9589.1
SDS1/4 X 1-3/4	9589.2
SDS1/4 X 2	9589.3
SDS1/4 X 2-1/2	9589.4
SDS1/4 X 3	9589.5
SDS1/4 X 3-1/2	9589.6
SDS1/4 X 4-1/2	9589.7
SDS1/4 X 5	9589.8
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SDS25500	9589.8
SDS25600	9589.9
SDS25800	9589.10
SP1	10456.41
SP2	10456.42
SP4	10456.43
SP6	10456.44
SP8	10456.45
SPH4	10456.46
SPH6	10456.47
SS1.5	10864.7
SS2.5	10864.7
SS3	10864.7
SS4.5	10864.7
SSP	10456.48
ST12	10852.13
ST18	10852.13
ST2115	10852.14
ST2122	10852.13
ST22	10852.13
ST2215	10852.13
ST292	10852.13
ST6215	10852.13
ST6224	10852.13
ST6236	10852.13
ST9	10852.13
SUL210	10655.122
SUL210-2	10655.123
SUL214	10655.124
SUL24	10655.125
SUL26	10655.126
SUL26-2	10655.127
SUL310	10531.107
SUL314	10531.108
SUL410	10531.109
SUL414	10655.128
SUL414	10531.110
SULI2.06/9	10531.111
SULI3510/12	10531.112
SULI3514/20	10531.113
SUR210	10655.129
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SUR214	10655.131
SUR24	10655.132
SUR26	10655.133
SUR26-2	10655.134
SUR310	10531.114
SUR314	10531.115
SUR410	10531.116
SUR414	10655.135
SUR414	10531.117
SURI2.06/9	10531.118
SURI3510/12	10531.119
SURI3514/20	10531.120
TB20	10864.8
TB27	10864.8
TB36	10864.8
TBE4	10861.2
TBE4Z	10861.2
TBE6	10861.2
TBE6Z	10861.2
TC26	10861.3
TC28	10861.3
THA213	10447.15
THA218	10447.16
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THA222-2	10447.18
THA29	10447.19
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THA418	10447.21
THA422	10447.22
THA426	11468.23
THAC418	10447.23
THAI1.81/22	10447.24
THAI2.06/22	10447.25
THAI2.1/22	10447.26
THAI222	10447.27
THAI322	10447.28
THAI3522	10447.29
THAI422	10447.30
THAL422	10447.31
THAR422	10447.32
THGB2	11468.24
THGB3	11468.24
THGBH2	11468.24
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THGW3-3	11468.26
THGW3-4	11468.26
THGW4-3	11468.26
THGW4-4	11468.26
THJA26	10444.4
THJU26	11468.27
THJU26-W	11468.27
TJC37	11478.7
TSB2-24	10861.4
TSP	11470.10
TWB10	10864.9
TWB12	10864.9
TWB14	10864.9
U14	10531.121
U210	10655.136
U210-2	10655.137
U210-3	10655.138
U210R	10655.139
U214	10655.140
U24	10655.141
U24-2	10655.142
U24R	10655.143
U26	10655.144
U26-2	10655.145
U26R	10655.146
U310	10655.147
U310	10531.122
U314	10655.148
U314	10531.123
U34	10655.149
U3510/14	10531.125
U3510-2	10531.124
U3512-2	10531.126
U3516/20	10531.127
U36	10655.150
U410	10655.151
U410	10531.128
U410R	10655.152
U414	10655.153
U414	10531.129
U44	10655.154
U44R	10655.155
U46	10655.156
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U610	10655.158
U610	10531.130
U610R	10655.159
U66	10655.160
U66R	10655.161
UFP10-SDS3	10866.14
VGT	11470.7
VGTL	11470.7
VGTR	11470.7
VPA2	10447.33
VPA25	10447.34
VPA3	10447.35
VPA35	10447.36
VPA4	10447.37
VTC2	10861.5
W11	10667.81
W11-2	10667.81
W14	10667.81
W16	10667.81
W210	10856.17
W211.88	10667.82
W212	10856.17
W214	10856.17
W216	10856.17
W26	10856.17
W28	10856.17
W29.5	10667.82
W310	10856.17
W34	10856.17
W3511.88	10667.83
W3514	10667.83
W3516	10667.83
W3518	10667.83
W3520	10667.83
W36	10856.17
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W46	10856.17
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W9	10667.82
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WI326	10667.85
WI328	10667.85
WI330	10667.85
WI39.5	10667.85
WI411.25	10667.86
WI414	10667.86
WI416	10667.86
WI418	10667.86
WI420	10667.86
WI422	10667.86
WI424	10667.87
WI426	10667.87
WI428	10667.87
WI430	10667.87
WI49.5	10667.87
WNP2.6	10667.88
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WNP212-2	10856.18
WNP214-2	10856.18
WNP216-2	10856.18
WNP26-2	10856.18
WNP28-2	10856.18
WNP3.3	10667.88
WNP312	10856.18
WNP314	10856.18
WNP316	10856.18
WNP412	10856.18
WNP414	10856.18
WNP416	10856.18
WNP610	10856.18
WNP66	10856.18
WNP68	10856.18
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WNPU212-2	10856.19
WNPU214-2	10856.19
WNPU216-2	10856.19
WNPU3.3	10667.88
WNPU312	10856.19
WNPU314	10856.19
WNPU316	10856.19

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WNPU414	10856.19
WNPU416	10856.19
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2/10/2010

Products listed in Alphabetical Order

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WPI411.88	10667.103
WPI411.88-2	10667.103
WPI414	10667.104
WPI414-2	10667.104
WPI416	10667.104
WPI416-2	10667.104
WPI418	10667.105
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WPI420	10667.105
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WPI422	10667.106
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WPI424	10667.106
WPI424-2	10667.106
WPI426	10667.107
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WPI428	10667.107
WPI430	10667.107
WPI432	10667.107
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WPI49.5	10667.108
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WPU1.81/11.88	10667.109
WPU1.81/14	10667.109
WPU1.81/7.25	10667.110
WPU1.81/9.25	10667.110
WPU1.81/9.5	10667.110
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WPU3514	10667.120
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WPU3516	10667.120
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Z6	10446.22

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Products listed in Alphabetical Order

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S/SSW12x7	5113.2
S/SSW12x8	5113.3
S/SSW12x8X	5113.3
S/SSW12x9	5113.4
S/SSW12x9X	5113.4
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S/SSW15x10X	5113.5
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S/SSW15x8X	5113.9
S/SSW15x9	5113.10
S/SSW15x9X	5113.10
S/SSW18x10	5113.11
S/SSW18x10X	5113.11
S/SSW18x7	5113.15
S/SSW18x8	5113.16
S/SSW18x8X	5113.16

Product	Florida #
S/SSW18x9	5113.17
S/SSW18x9X	5113.17
S/SSW21x10	5113.18
S/SSW21x10X	5113.18
S/SSW21x7	5113.22
S/SSW21x8	5113.23
S/SSW21x8X	5113.23
S/SSW21x9	5113.24
S/SSW21x9X	5113.24
S/SSW24x10	5113.25
S/SSW24x10X	5113.25
S/SSW24x7	5113.29
S/SSW24x8	5113.30
S/SSW24x8X	5113.30
S/SSW24x9	5113.31
S/SSW24x9X	5113.31
SSW12x10	5113.1

Simpson Strong-Tie Florida Statewide Product Approval Index

2/10/2010

Products listed in Alphabetical Order

Product	Florida #
ATUD5	10007.1
CTUD55	10007.2
CTUD75	10007.2
CTUD77	10007.2

Product	Florida #
CTUD97	10007.2
CTUD99	10007.2
TUD10	10007.3
TUD9	10007.3

Simpson Strong-Tie Florida Statewide Product Approval Index

2/10/2010

Products listed in Alphabetical Order

Product	Florida #
S/SSW12x7	5113.2
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S/SSW12x8X	5113.3
S/SSW12x9	5113.4
S/SSW12x9X	5113.4
S/SSW15x10	5113.5
S/SSW15x10X	5113.5
S/SSW15x7	5113.8
S/SSW15x8	5113.9
S/SSW15x8X	5113.9
S/SSW15x9	5113.10
S/SSW15x9X	5113.10
S/SSW18x10	5113.11
S/SSW18x10X	5113.11
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S/SSW18x8X	5113.16
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S/SSW21x10	5113.18
S/SSW21x10X	5113.18
S/SSW21x7	5113.22
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S/SSW21x8X	5113.23
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S/SSW21x9X	5113.24
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SSW12x7.4	5113.2
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SSW12x9	5113.4
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SSW15x11	5113.6
SSW15x11-STK	5113.6
SSW15x12	5113.7
SSW15x12-STK	5113.7
SSW15x7	5113.8
SSW15x7.4	5113.8
SSW15x8	5113.9

Product	Florida #
SSW15x8-STK	5113.9
SSW15x9	5113.10
SSW15x9-STK	5113.10
SSW18x10	5113.11
SSW18x10-STK	5113.11
SSW18x11	5113.12
SSW18x11-STK	5113.12
SSW18x12	5113.13
SSW18x12-STK	5113.13
SSW18x13	5113.14
SSW18x13-STK	5113.14
SSW18x7	5113.15
SSW18x7.4	5113.15
SSW18x8	5113.16
SSW18x8-STK	5113.16
SSW18x9	5113.17
SSW18x9-STK	5113.17
SSW21x10	5113.18
SSW21x10-STK	5113.18
SSW21x11	5113.19
SSW21x11-STK	5113.19
SSW21x12	5113.20
SSW21x12-STK	5113.20
SSW21x13	5113.21
SSW21x13-STK	5113.21
SSW21x7	5113.22
SSW21x7.4	5113.22
SSW21x8	5113.23
SSW21x8-STK	5113.23
SSW21x9	5113.24
SSW21x9-STK	5113.24
SSW24x10	5113.25
SSW24x10-STK	5113.25
SSW24x11	5113.26
SSW24x11-STK	5113.26
SSW24x12	5113.27
SSW24x12-STK	5113.27
SSW24x13	5113.28
SSW24x13-STK	5113.28
SSW24x7	5113.29
SSW24x7.4	5113.29
SSW24x8	5113.30
SSW24x8-STK	5113.30
SSW24x9	5113.31
SSW24x9-STK	5113.31
SW16x7x4	11177.1
SW16x7x6	11177.1

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SW16x8x6	11177.2
SW18X8	11177.2
SW18x8-RF	11177.3
SW18x9	11177.4
SW18x9-RF	11177.5
SW22x7x4	11177.1
SW22x7x6	11177.1
SW22x8x4	11177.2
SW22x8x6	11177.2
SW24x10	11177.6
SW24x10-RF	11177.7
SW24x12x6	11177.8
SW24X8	11177.2
SW24x8-RF	11177.3
SW24x9	11177.4

Product	Florida #
SW24x9-RF	11177.5
SW32x10	11177.6
SW32x10-RF	11177.7
SW32x12x6	11177.8
SW32x8	11177.2
SW32x8-RF	11177.3
SW32x9	11177.4
SW32x9-RF	11177.5
SW48x10	11177.6
SW48x10-RF	11177.7
SW48x12x6	11177.8
SW48x8	11177.2
SW48x8-RF	11177.3
SW48x9	11177.4
SW48x9-RF	11177.5

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2/10/2010

Products listed in Alphabetical Order

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GDP	11506.2
PCLDP	11506.3
PDP	11506.3
PDPH	11506.3
PDPT	11506.3
PDPW	11506.3
PDPWL	11506.3
PDPWLS	11506.3
PECLDP	11506.3
PHN	11506.3
PHNT	11506.3

Product	Florida #
PHNW	11506.3
PSLV3	11506.3
PSLV4	11506.3
PTRH3	11506.3
PTRH4	11506.3
SET	11506.4
SET-XP	11506.5
STB	11506.6
THD	11506.7
TTN	2355.1
WA	11506.8

THERMA-TRU[®] DOORS

Fiber-Classic[®] & Smooth-Star[®]

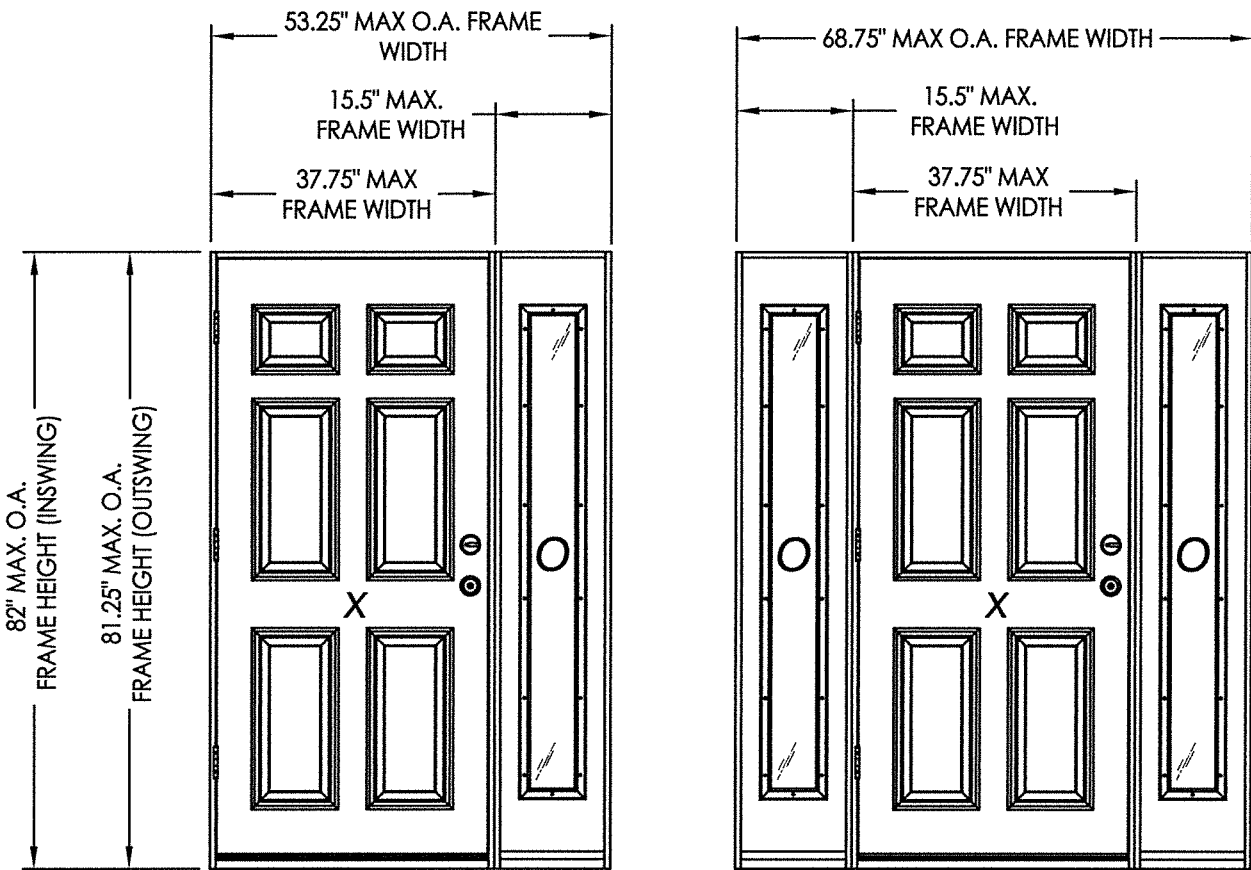
COMPOSITE EDGE OPAQUE FIBERGLASS SINGLE DOOR w/ SIDELITE(S) INSWING/OUTSWING "NON-IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 6th Edition (2017) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2 as follows: Wind Zones 1, 2 & 3: Glazed Sidelites only; Wind Zone 4: Entire System.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. Fiber-Classic & Smooth-Star Door and Sidelite panels require the use of "J" part numbers and must be stained or painted within six months of installation.

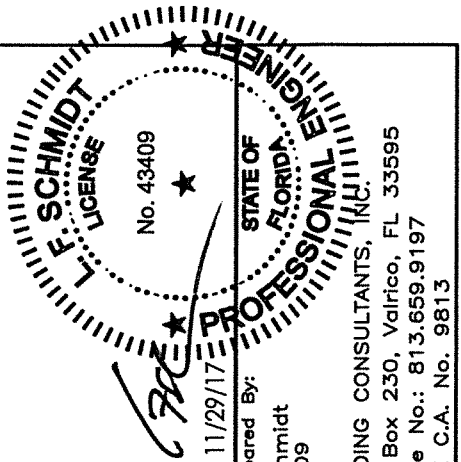
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2	Door Panel Details
3	Sidelite Panel Details
4	Elevations
5	Horizontal & Vertical Cross Sections (2X Buck)
6	Horizontal & Vertical Cross Sections (1X Buck)
7	Horizontal & Vertical Cross Sections (Direct to Masonry)
8	Vertical Cross Sections (Thresholds)
9	Buck Anchoring
10	Frame Anchoring
11	Hardware Details
12	Glazing Details
13	Components
14	Bill of Materials



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+45.0	-50.0	+45.0	-45.0

See Sheet 4 for Hardware Specifications



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
2	11/15/17	RECESSED PANEL NOTATION
1	7/7/17	UPDATE TO 6th ED (2017) FBC

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

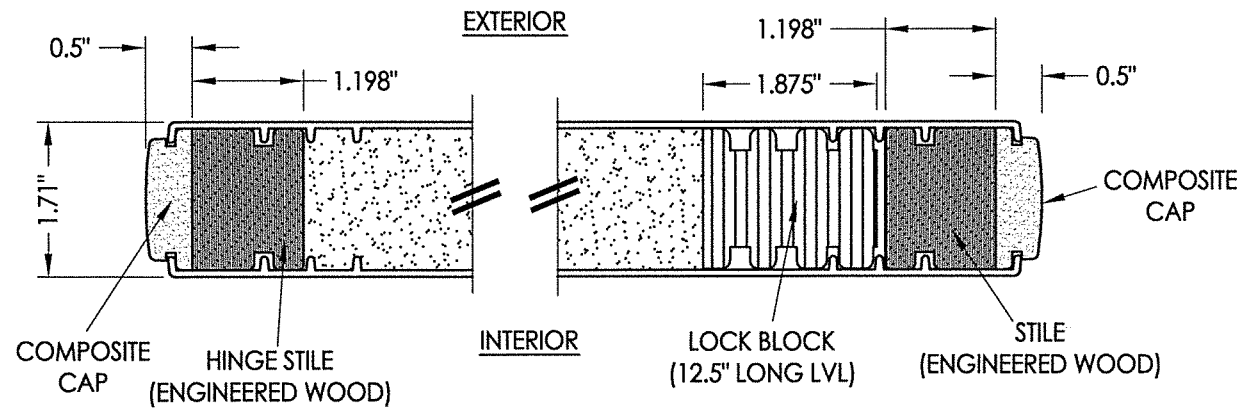
DRAWING NO.:

FL-20461.2

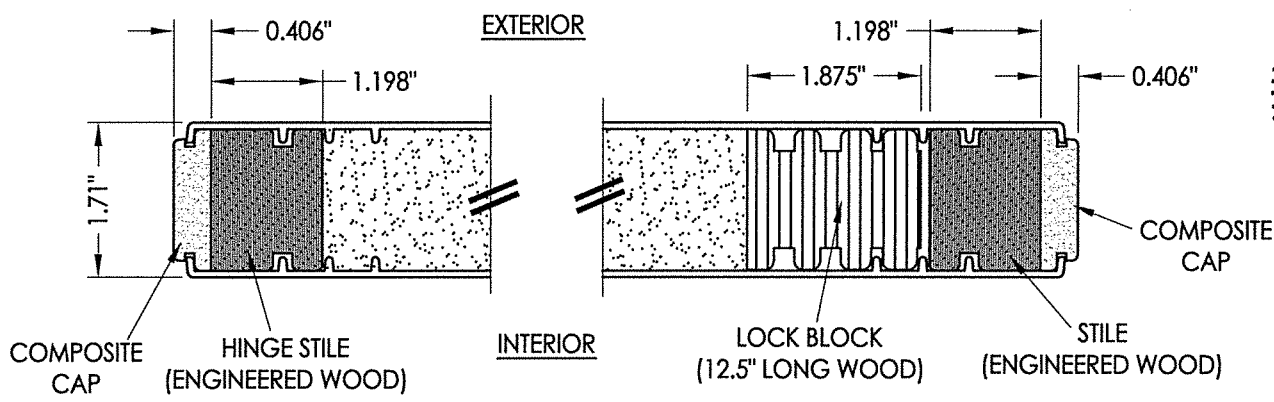
SHEET 1 OF 14

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

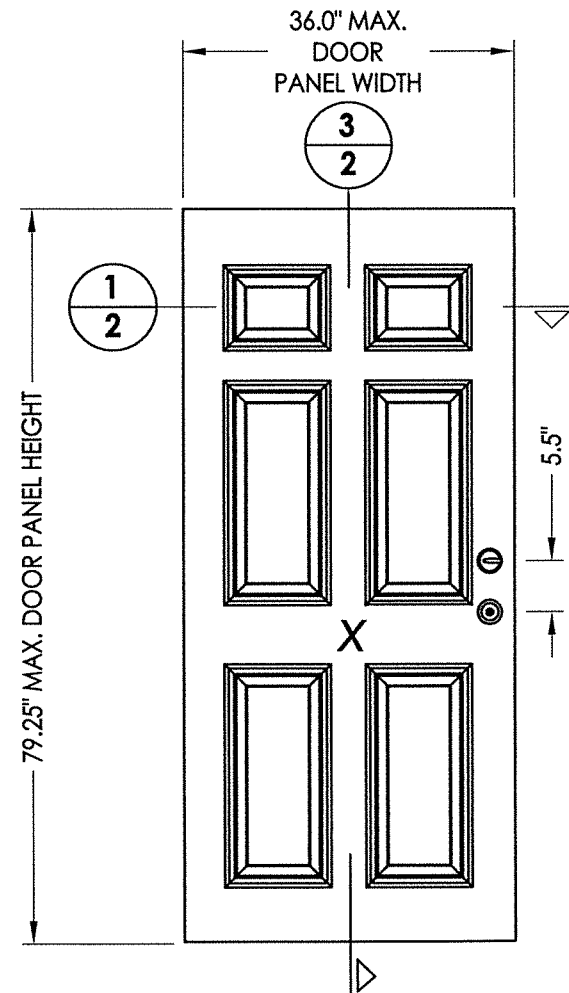
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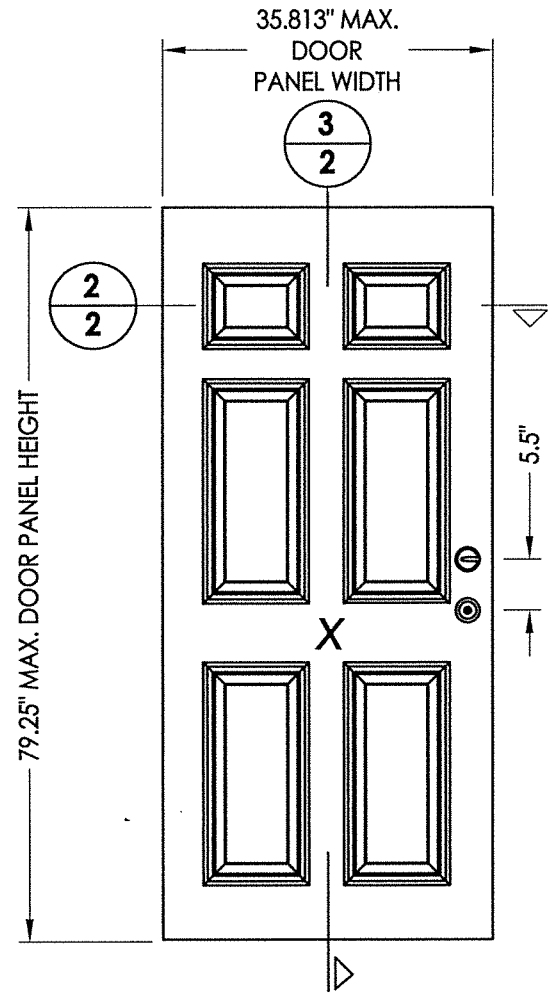
1
2 HORIZONTAL CROSS SECTION



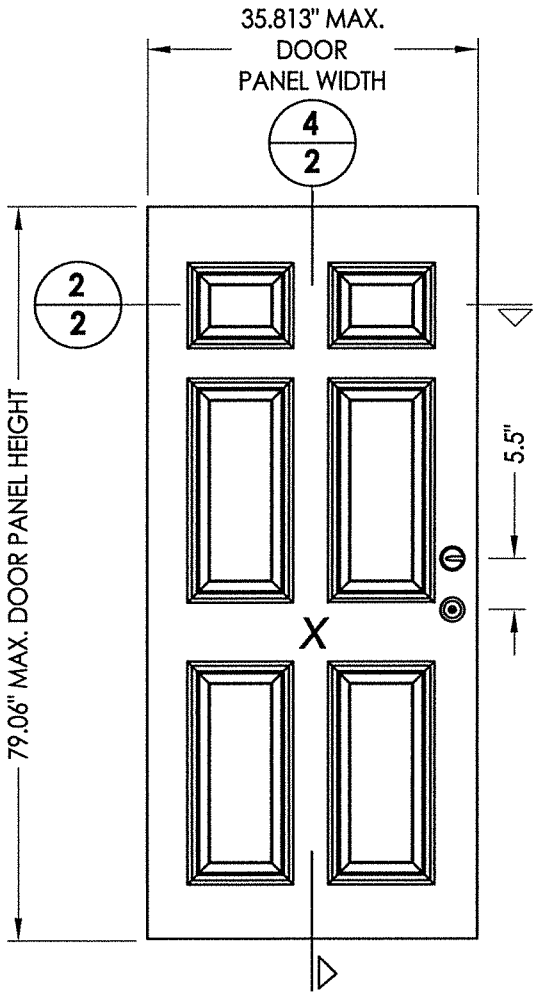
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2 HORIZONTAL CROSS SECTION



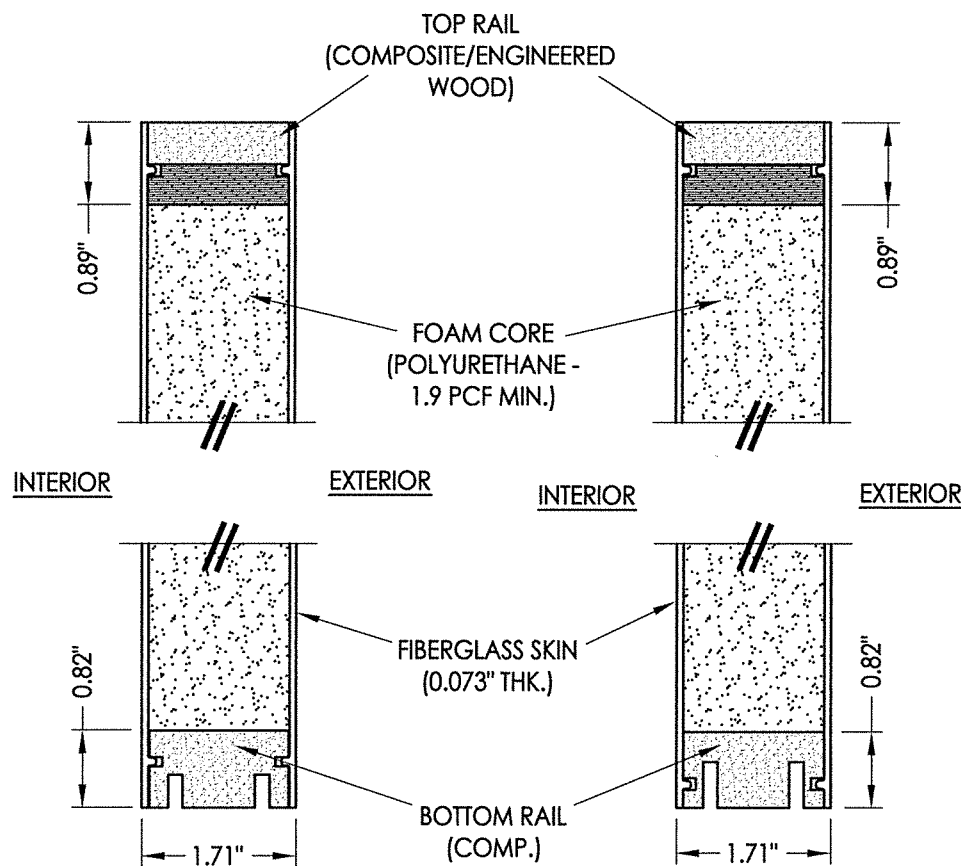
40 DOOR PANEL BOOK



41 DOOR PANEL Hybrid Door

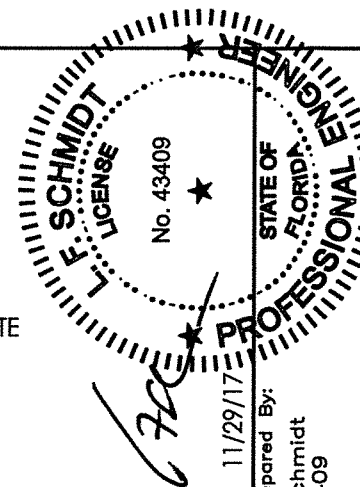


42 DOOR PANEL U1 Door



3
2 VERTICAL CROSS SECTION

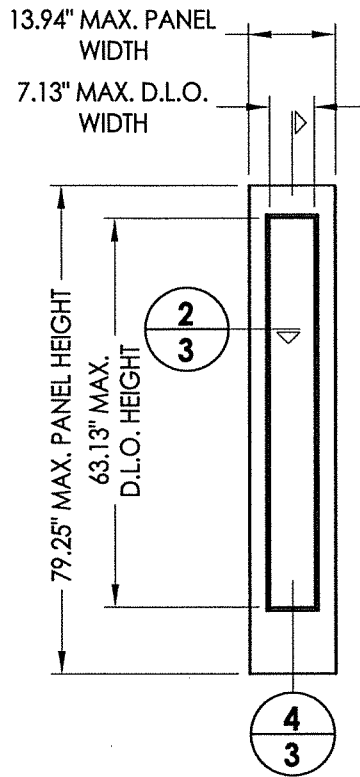
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2 VERTICAL CROSS SECTION



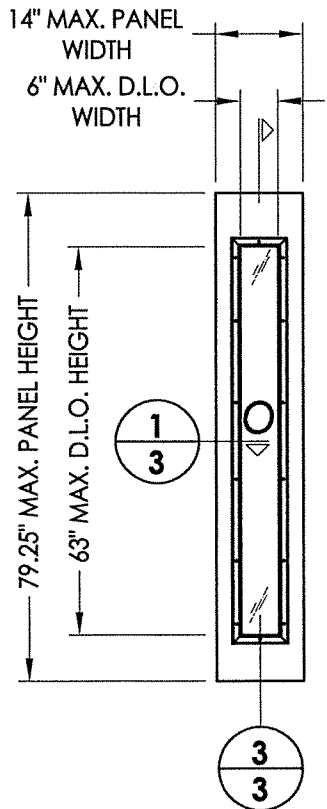
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

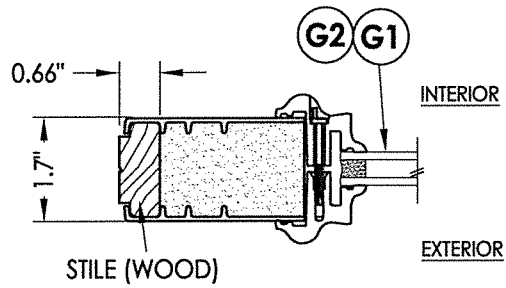
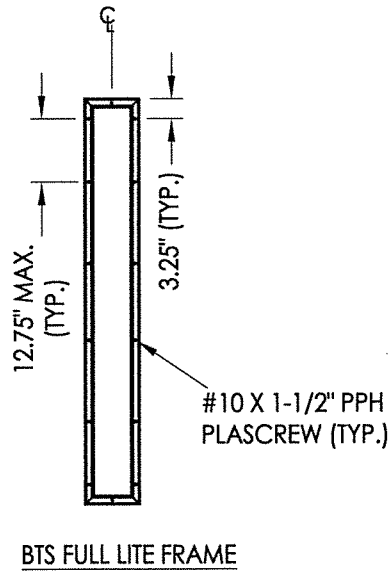
PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
NO.	DATE	REVISIONS	JK
			BY
2	11/15/17	RECESSED PANEL NOTATION	JK
1	7/7/17	UPDATE TO 6th ED (2017) FBC	JK
DATE: 8/10/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20461.2			
SHEET 2 OF 14			



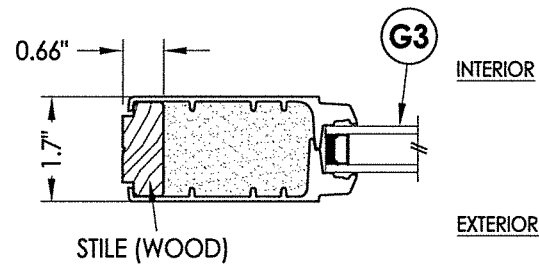
60 SIDELITE PANEL
Full Lite
Flush Glazed



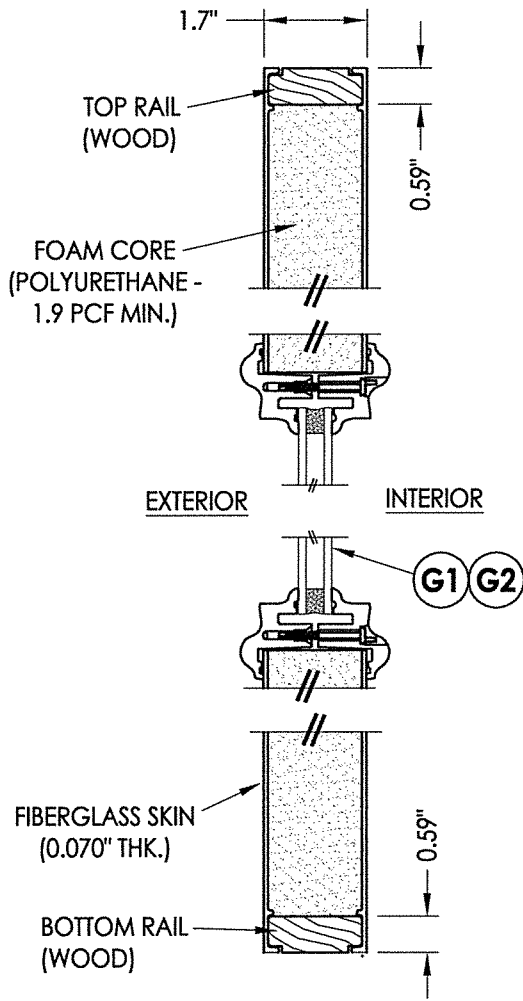
50 SIDELITE PANEL
Full Lite
Lip Lite



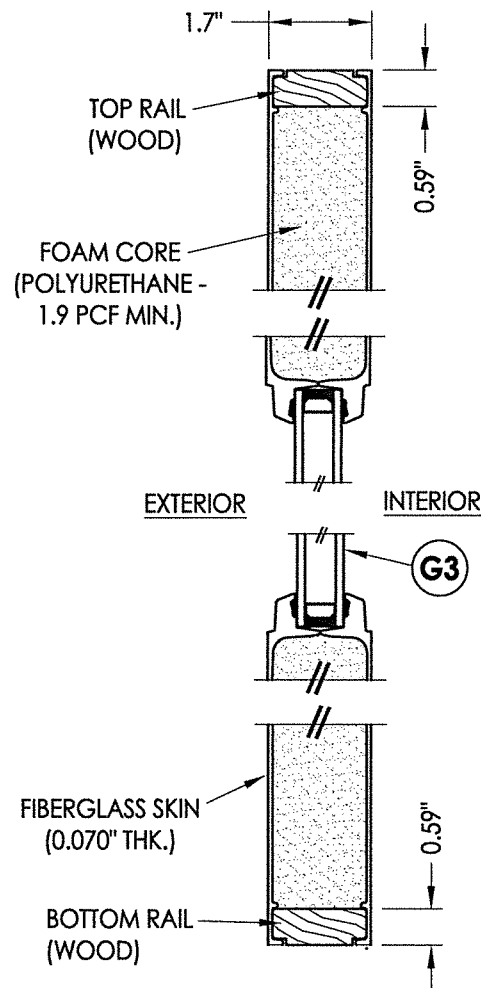
1 HORIZONTAL CROSS SECTION
Lip Lite Glazing



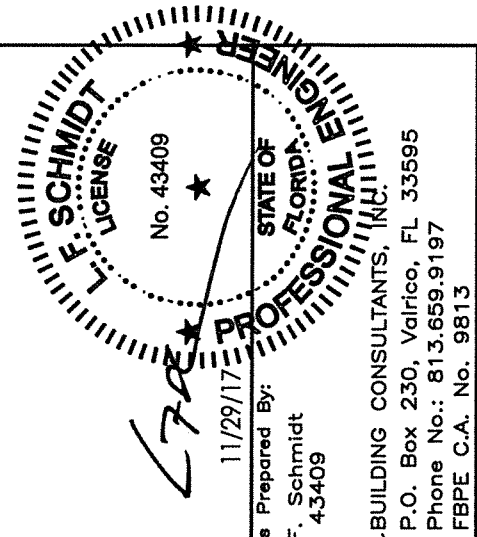
2 HORIZONTAL CROSS SECTION
Flush Glazing



3 VERTICAL CROSS SECTION
Lip Lite Glazing Shown



4 VERTICAL CROSS SECTION
Flush Glazing Shown

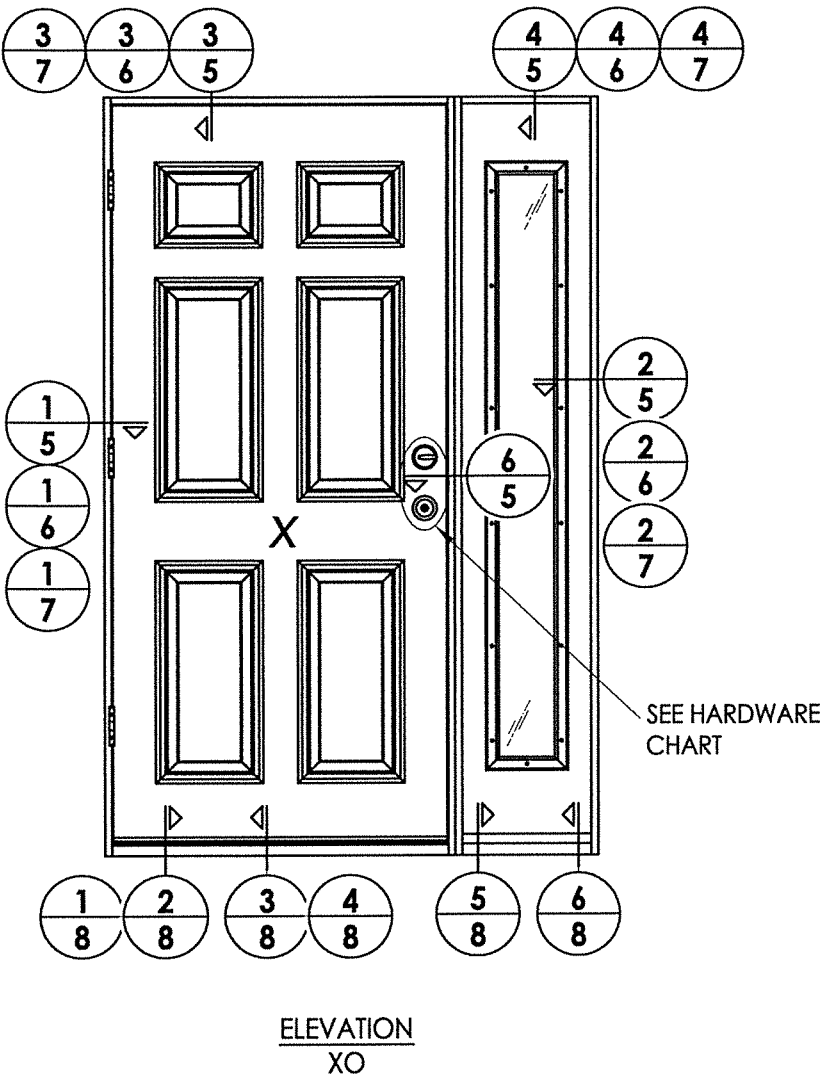


Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

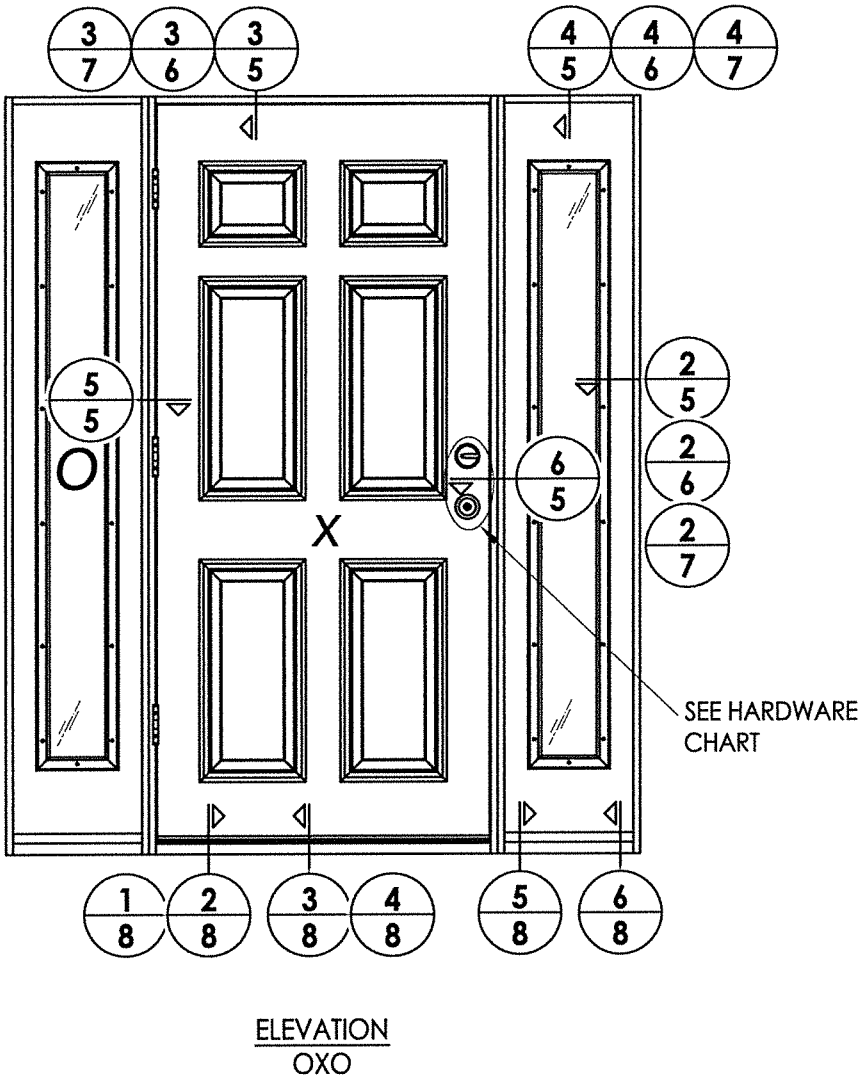
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:		THERMA TRU FIBERGLASS DOOR		
PART OR ASSEMBLY:		SIDELITE PANEL DETAILS		
2		11/15/17	RECESSED PANEL NOTATION	JK
1		7/7/17	UPDATE TO 6th ED (2017) FBC	JK
NO.		DATE		BY
		REVISIONS		
DATE:		8/10/16		
SCALE:		N.T.S.		
DWG. BY:		JK		
CHK. BY:		LFS		
DRAWING NO.:		FL-20461.2		
SHEET		3	OF	14

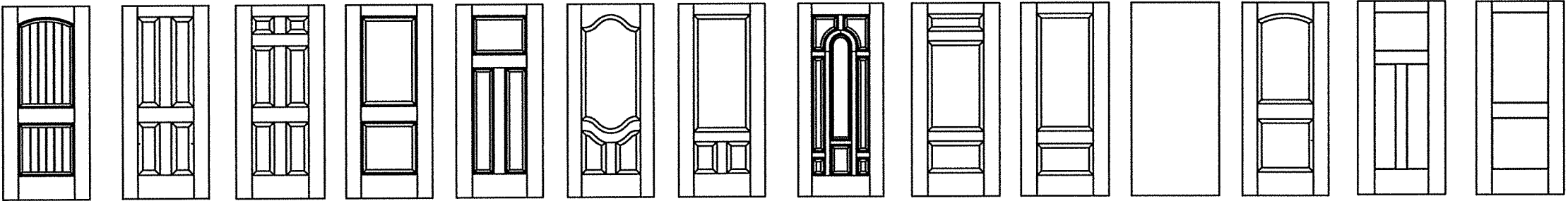
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ELEVATION
XO



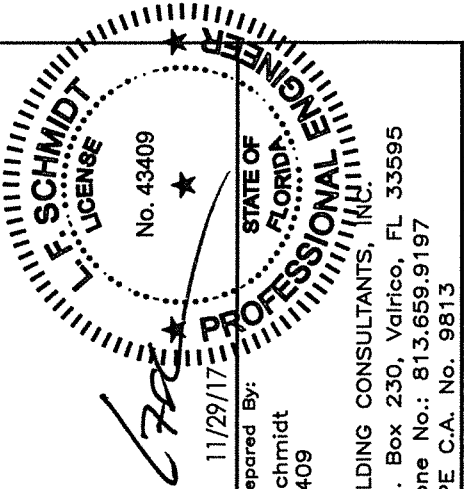
ELEVATION
OXO



Fiber-Classic/Smooth-Star Door Panel Options

Products approved include all embossed panel doors and 2 panel recessed panel doors.
Similar opaque panel configurations are allowed.
Panels shown are for illustration and are representative only.

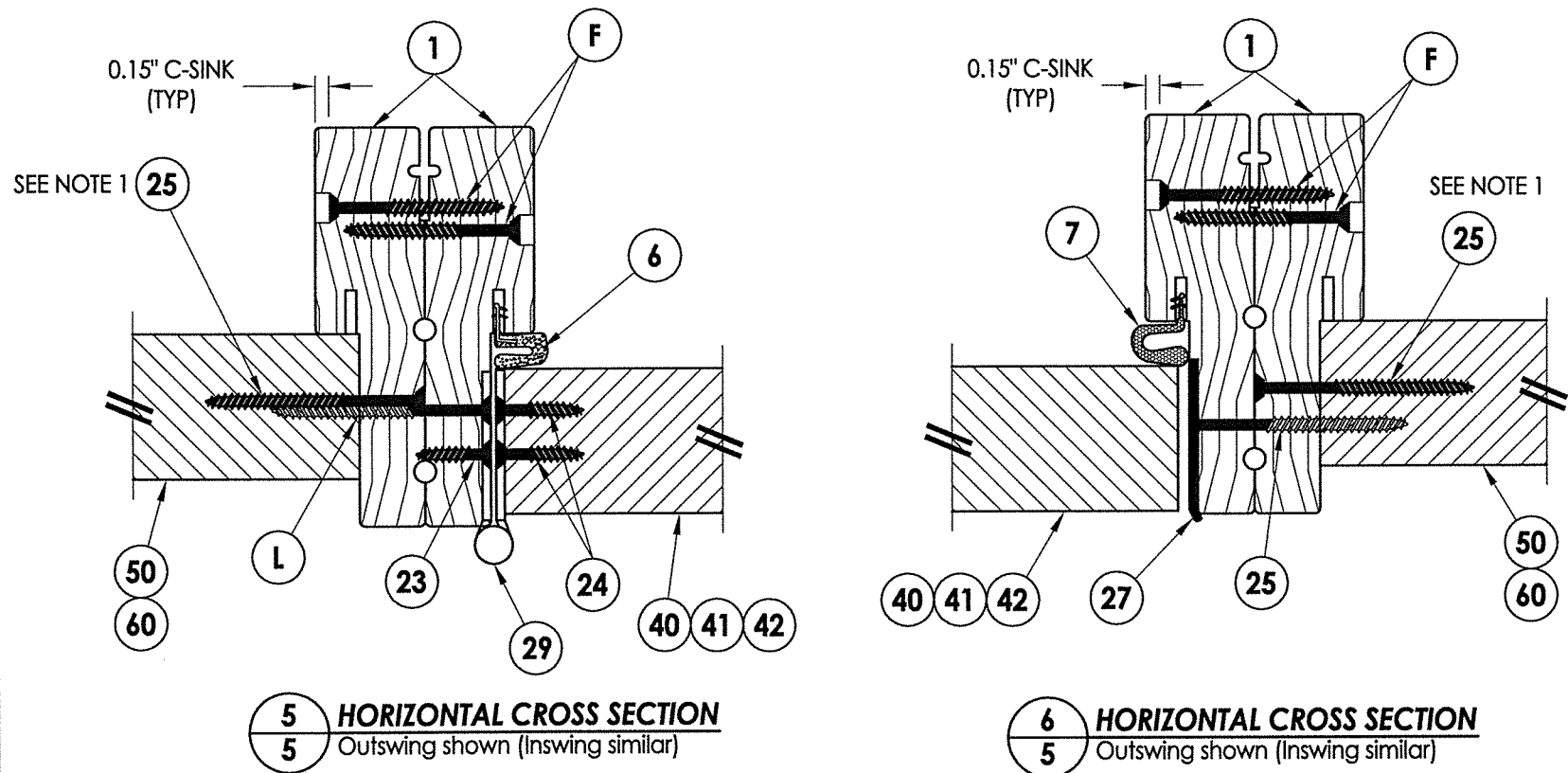
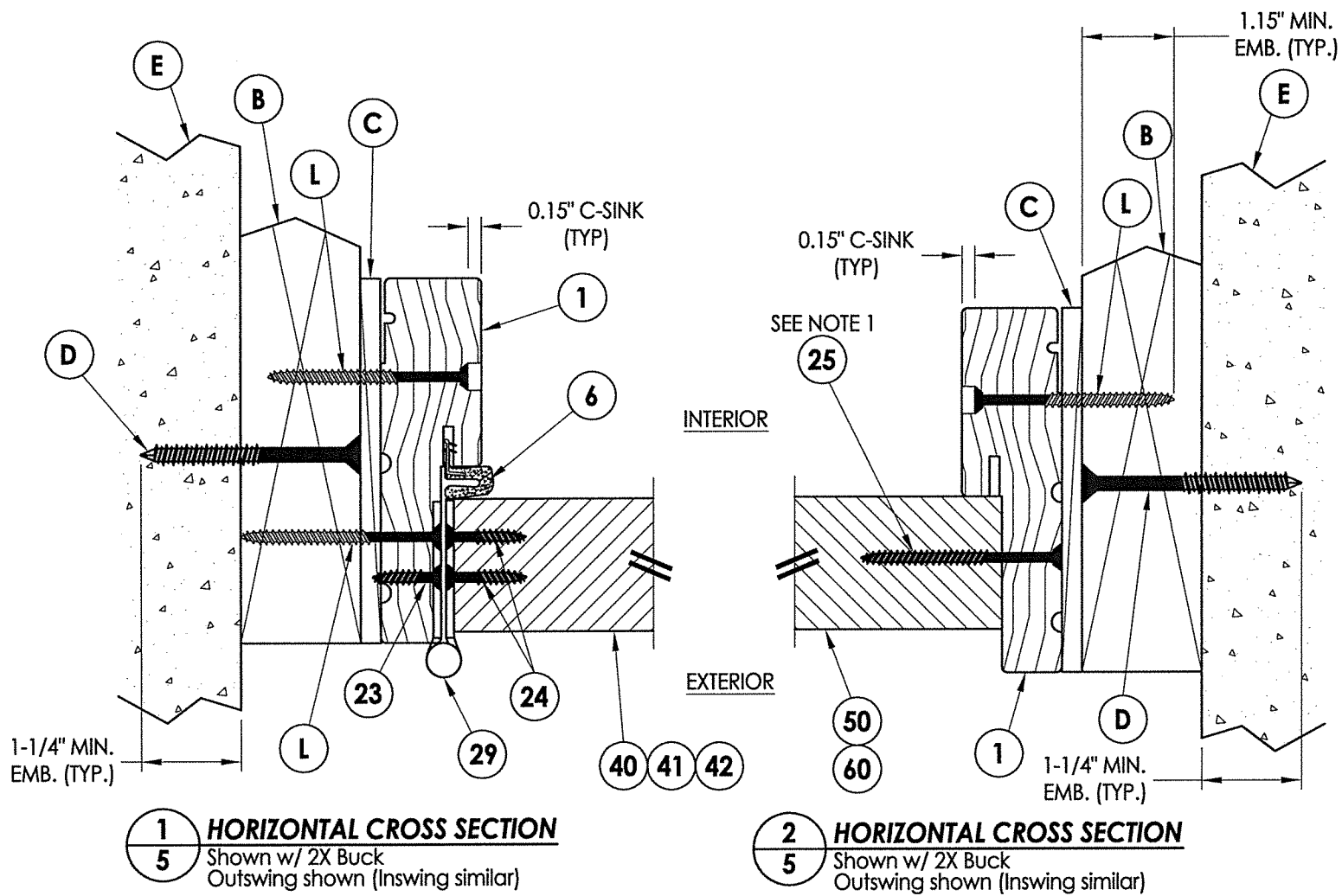
HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	Knob:	F51
	Deadbolt:	B60
KWIKSET	Knob:	SIGNATURE SERIES
	Deadbolt:	SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)	



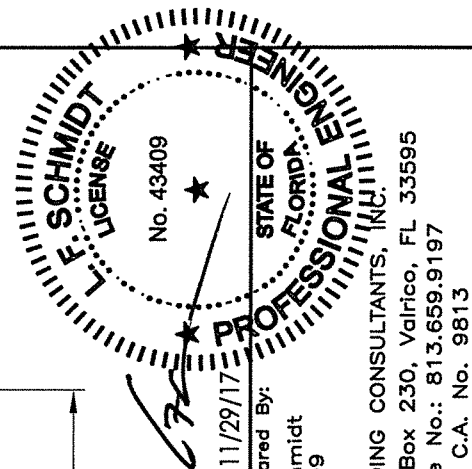
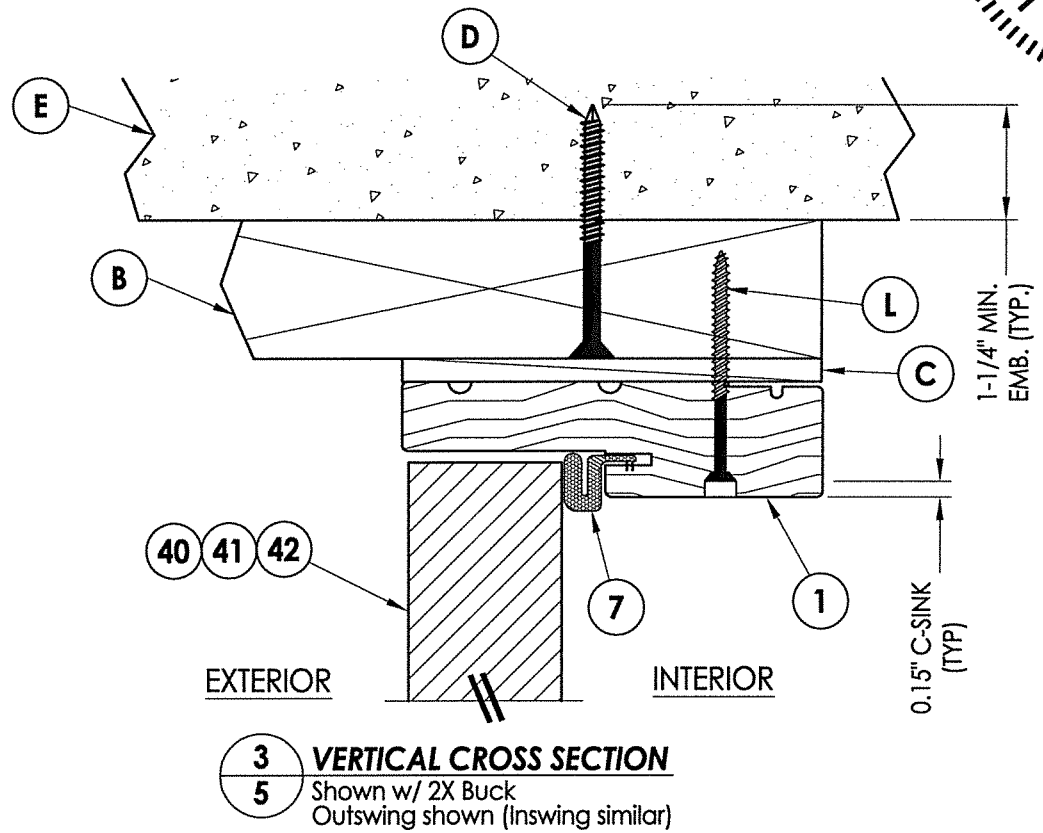
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		ELEVATIONS	
			JK
			JK
			BY
REVISIONS			
2	11/15/17	RECESSED PANEL NOTATION	
1	7/7/17	UPDATE TO 6th ED (2017) FBC	
NO.	DATE		
DATE: 8/10/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20461.2			
SHEET 4 OF 14			



- Notes:
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



Documents Prepared By:
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11/29/17

R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)

NO.	DATE	BY	REVISIONS
2	11/15/17	JK	RECESSED PANEL NOTATION
1	7/7/17	JK	UPDATE TO 6th ED (2017) FBC
1		BY	

DATE: 8/10/16

SCALE: N.T.S.

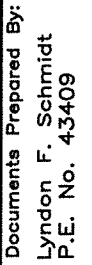
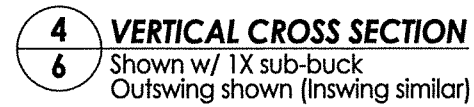
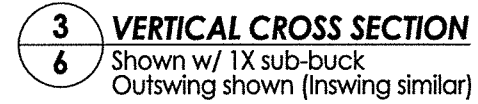
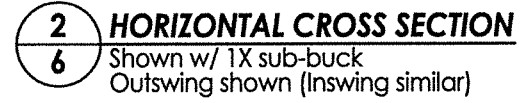
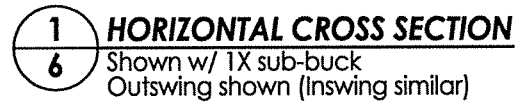
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20461.2

SHEET 5 OF 14

1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

DATE: 8/10/16		PRODUCT: THERMA-TRU FIBERGLASS DOOR																	
SCALE: N.T.S.																			
DWG. BY: JK																			
CHK. BY: LFS																			
DRAWING NO.: FL-20461.2		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)																	
SHEET 6 OF 14		<table border="1"> <tr> <td>2</td> <td>11/15/17</td> <td>RECESSED PANEL NOTATION</td> <td>JK</td> </tr> <tr> <td>1</td> <td>7/7/17</td> <td>UPDATE TO 6th ED (2017) FBC</td> <td>JK</td> </tr> <tr> <td>NO.</td> <td>DATE</td> <td></td> <td>BY</td> </tr> <tr> <td colspan="4">REVISIONS</td> </tr> </table>		2	11/15/17	RECESSED PANEL NOTATION	JK	1	7/7/17	UPDATE TO 6th ED (2017) FBC	JK	NO.	DATE		BY	REVISIONS			
2	11/15/17	RECESSED PANEL NOTATION	JK																
1	7/7/17	UPDATE TO 6th ED (2017) FBC	JK																
NO.	DATE		BY																
REVISIONS																			

Technical drawing of a window sill cross-section. The drawing shows the exterior (left) and interior (right) views. Key dimensions and callouts include:

- 1-1/4" MIN. EMB. (TYP.)**: Dimension for the exterior finish layer.
- 2" MIN.**: Dimension for the exterior finish layer.
- 1.5" MAX.**: Dimension for the exterior finish layer.
- 60** and **50**: Callouts for the exterior finish layer.
- 25**: Callout for the exterior finish layer.
- SEE NOTE 2**: Reference to a note.
- EXTERIOR** and **INTERIOR**: Labels for the respective sides.
- 1**: Callout for the interior finish layer.
- D**: Callout for the interior finish layer.
- E**: Callout for the exterior finish layer.
- C**: Callout for the exterior finish layer.

Diagram illustrating a vertical cross section of a door assembly, showing the interior and exterior components and fasteners.

Interior Components:

- 1:** Interior door leaf.
- C:** Interior door frame or jamb.
- 60 50:** Interior door handle or pull.
- 25:** Interior door stop or weatherstripping.

Exterior Components:

- EXTERIOR:** The outer side of the door assembly.
- 25:** Exterior door stop or weatherstripping.
- E:** Exterior door frame or jamb.

Fasteners:

- N:** Nail or fastener securing the interior door frame to the wall.
- E:** Nail or fastener securing the exterior door frame to the wall.

Dimensions:

- 1.5" MAX.:** Maximum dimension for the interior door frame.
- 1.5" MIN.:** Minimum dimension for the interior door frame.
- 4.25" MIN.:** Minimum dimension for the exterior door frame.
- 1-1/4" MIN. EMB. (TYP.):** Minimum dimension for the exterior door frame.

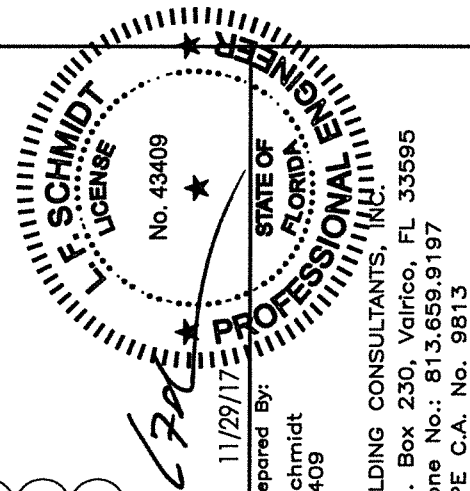
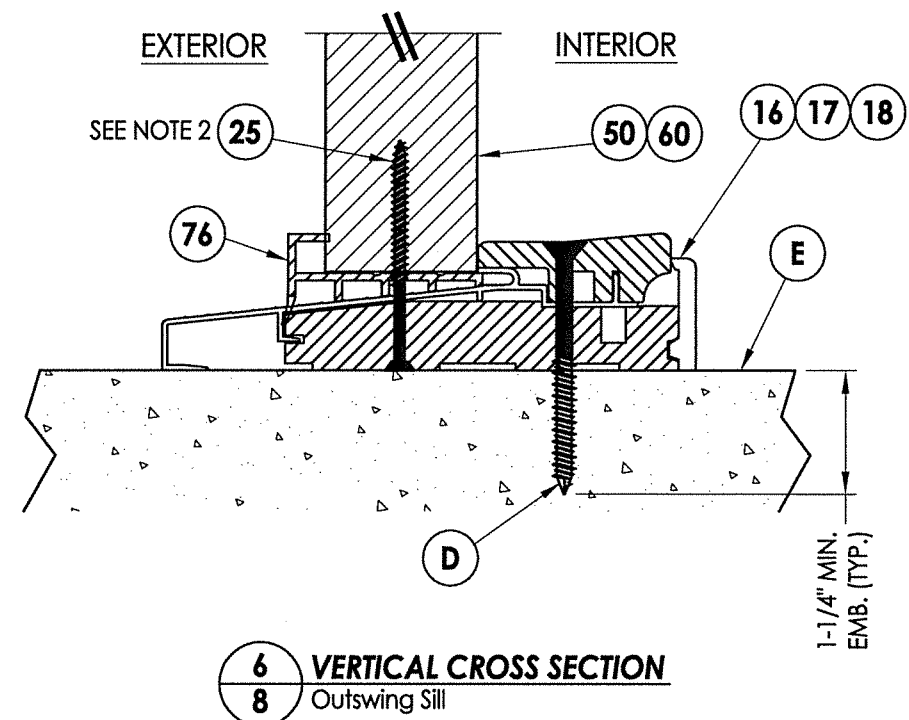
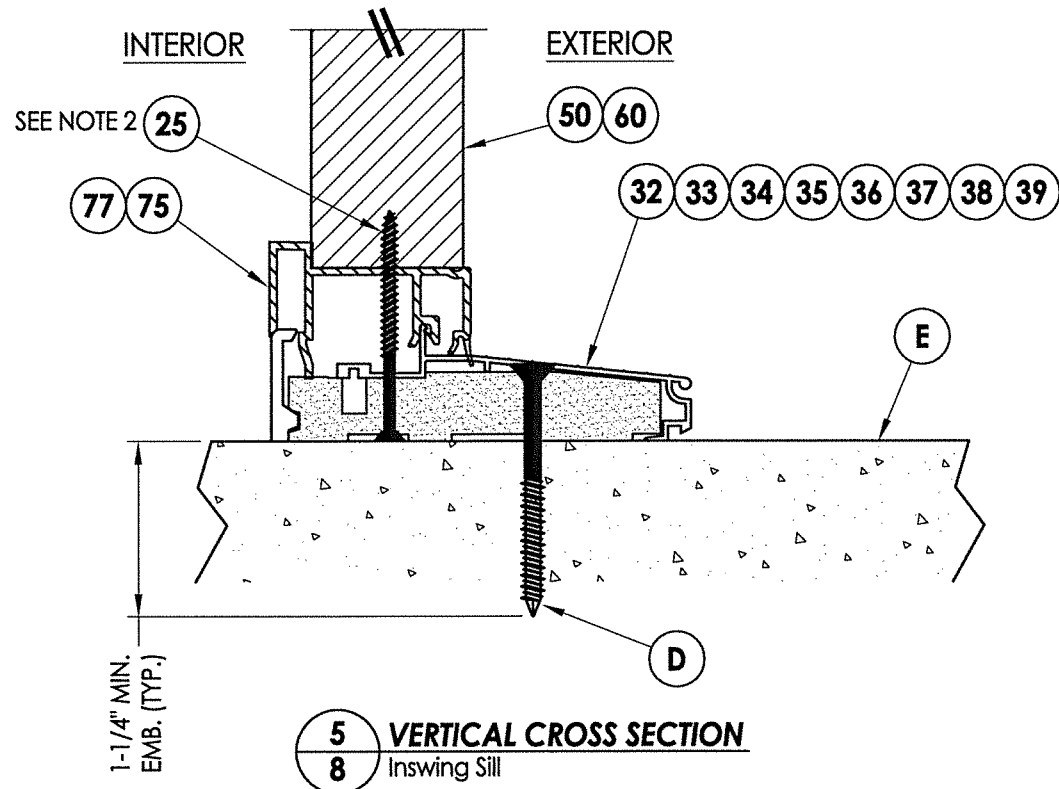
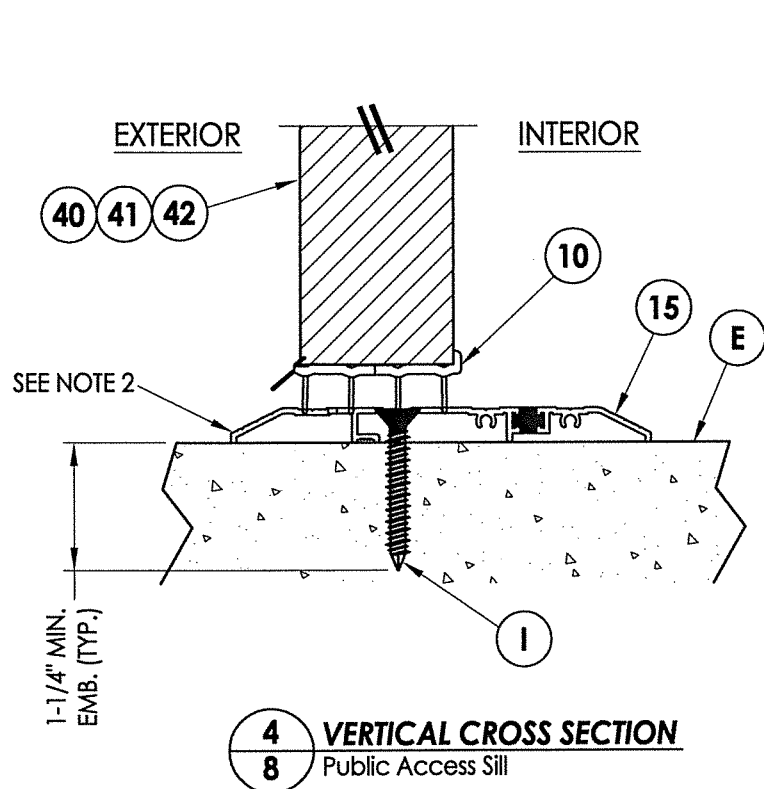
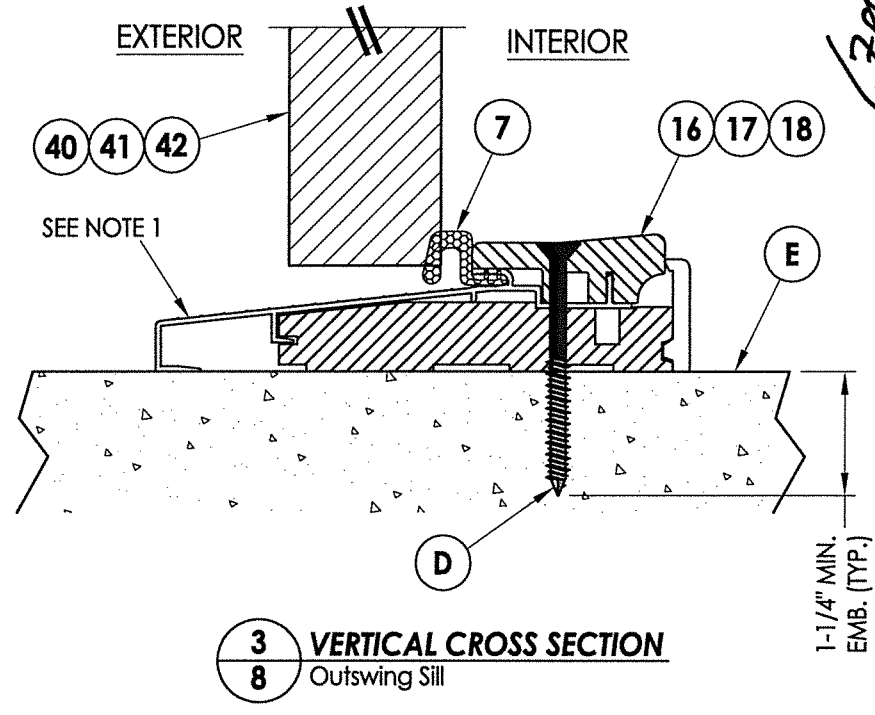
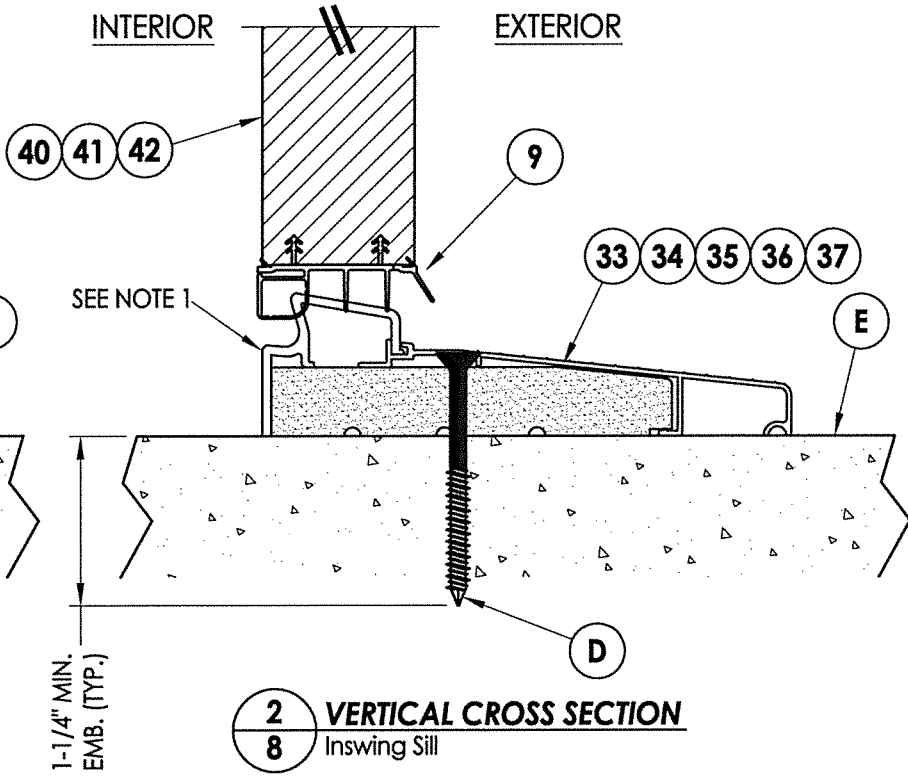
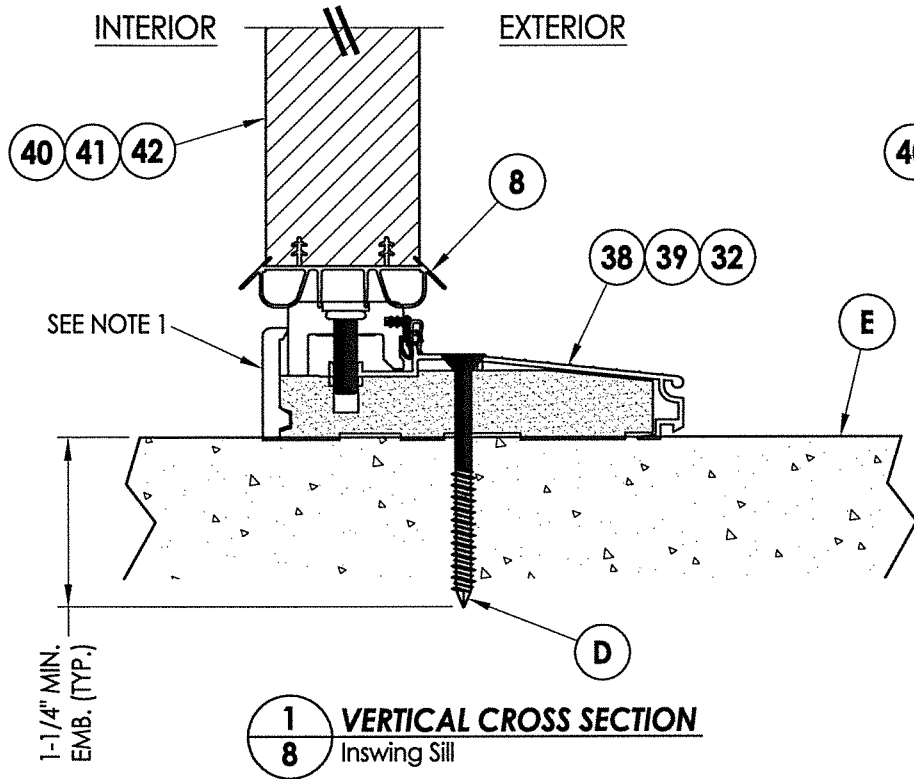
SEE NOTE 1

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R:\Clients\Therma Tru Permanent\VA - Florida Product Approvals\FL-20461 Structural TT SS[C - Drawings\FL-20461.1-5.dwg, 8.2

Notes:

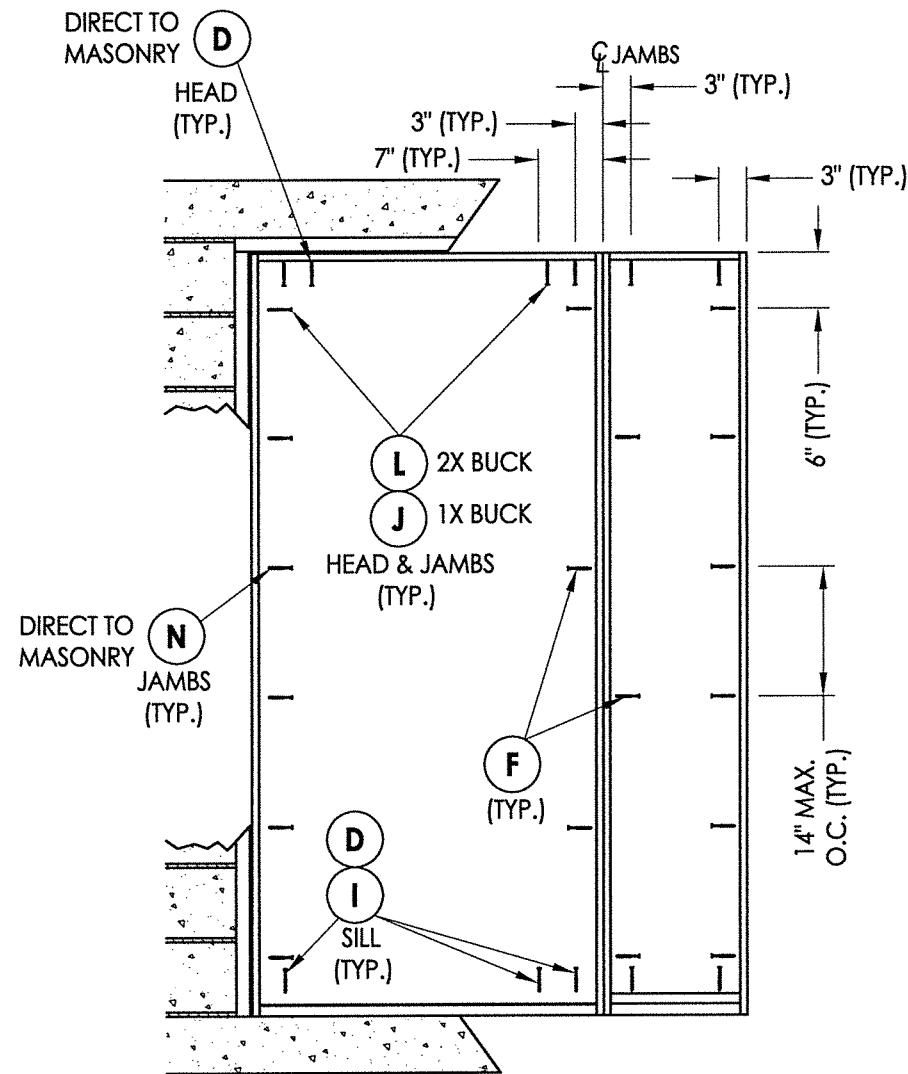
- Sill Item #'s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
Sill Item #'s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.
- Sidelite assembly screws located 4" from each end (2 screws along sill).



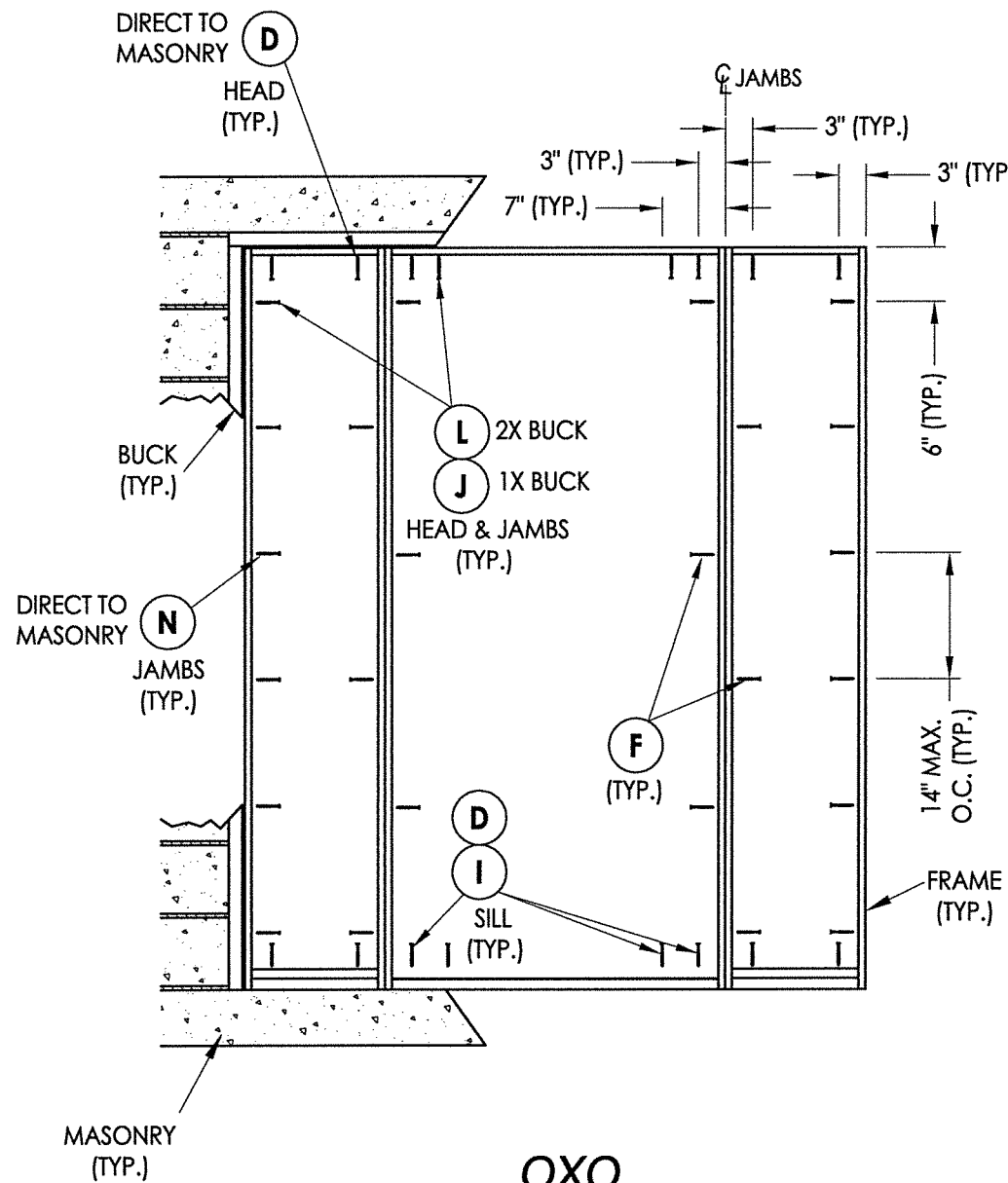
Documents Prepared By:
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Phone No.: 813.659.9197
FBPE C.A. No. 9813

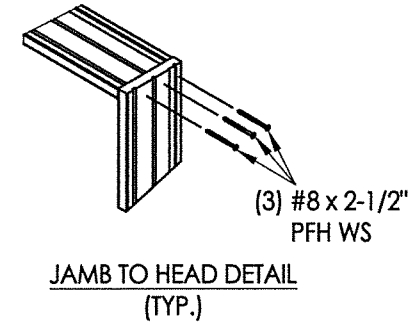
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PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS (THRESHOLDS)	
NO.	DATE	REVISIONS	JK
			BY
2	11/15/17	RECESSED PANEL NOTATION	JK
1	7/7/17	UPDATE TO 6th ED (2017) FBC	JK
DATE: 8/10/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20461.2			
SHEET 8 OF 14			



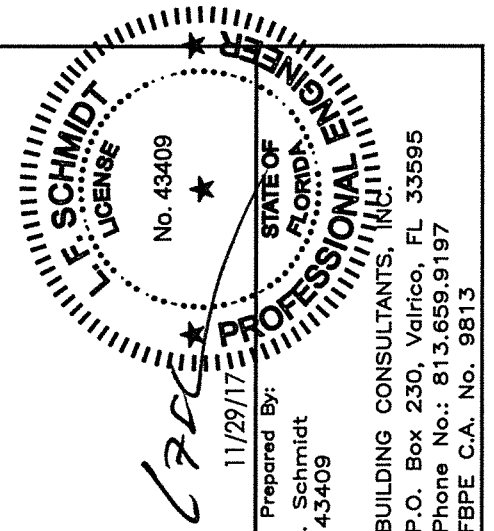
XO/OX



OXO



FRAME ANCHORING



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P.O. Box 230, Valrico, FL 33595
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FBPE C.A. No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
FRAME ANCHORING

NO.	DATE	REVISIONS
2	11/15/17	RECESSED PANEL NOTATION
1	7/7/17	UPDATE TO 6th ED (2017) FBC
JK		BY

DATE: 8/10/16

SCALE: N.T.S.

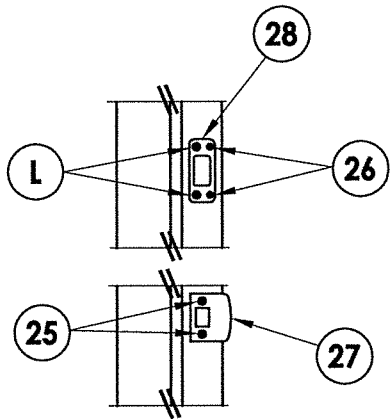
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CHK. BY: LFS

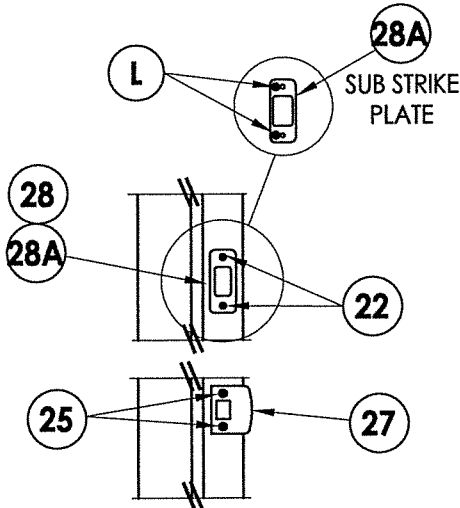
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FL-20461.2

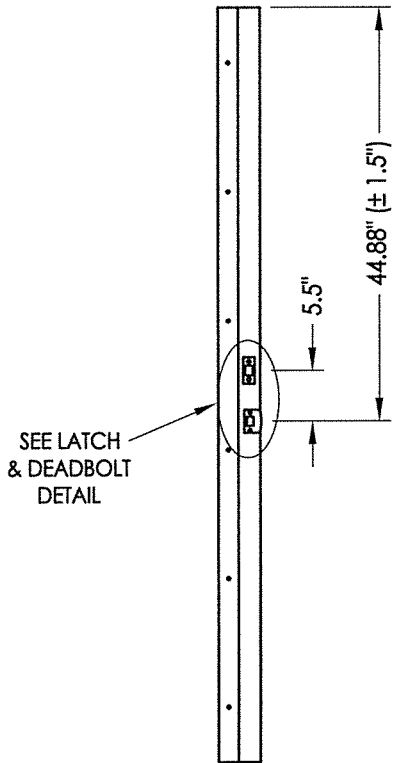
SHEET 10 OF 14



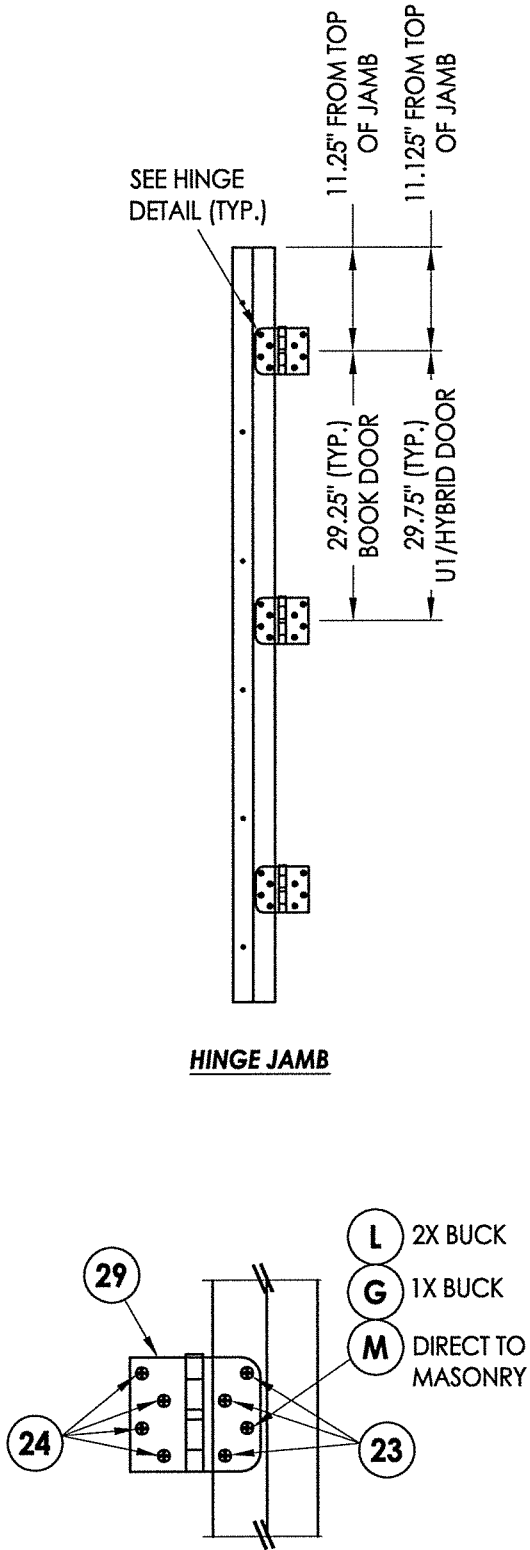
LATCH & DEADBOLT DETAIL
Kwikset



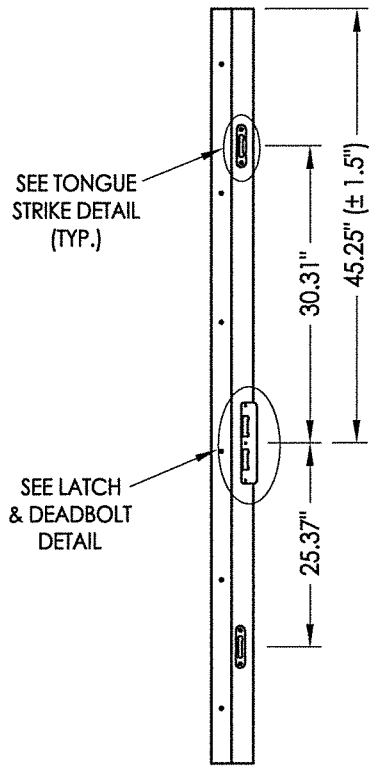
LATCH & DEADBOLT DETAIL
Schlage



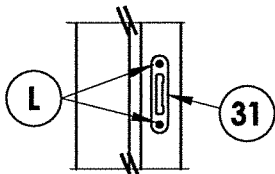
STRIKE JAMB
Latch and Deadbolt



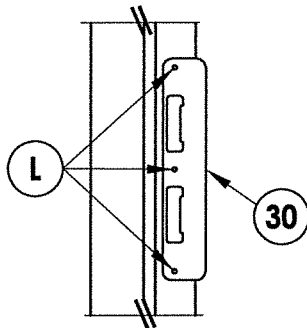
HINGE DETAIL



STRIKE JAMB
Multipoint Lock

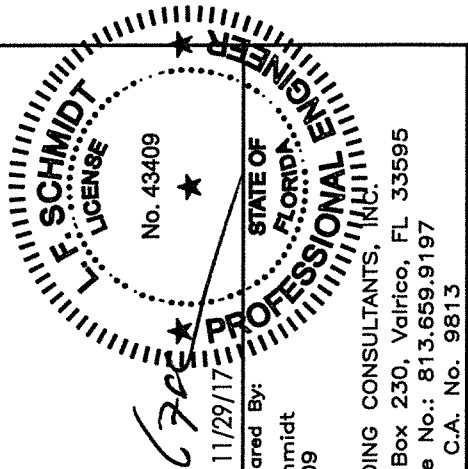


TONGUE STRIKE DETAIL
Multipoint Lock



LATCH & DEADBOLT DETAIL
Multipoint Lock

MULTIPOINT LOCK STRIKE DETAILS

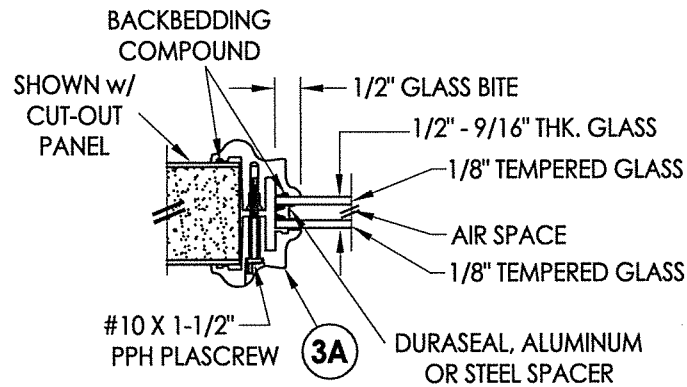


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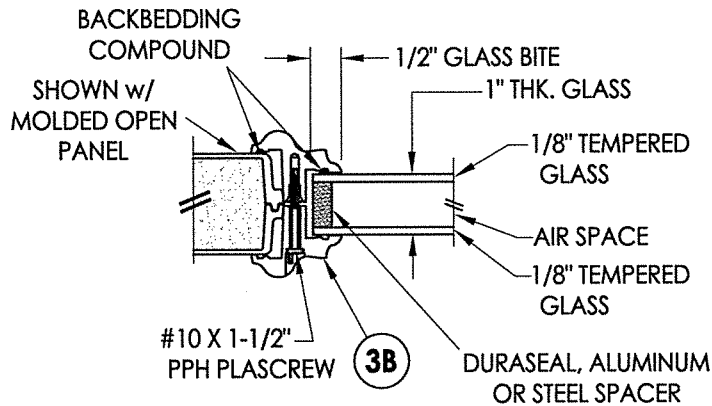
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		HARDWARE DETAILS	
NO.	DATE	REVISIONS	
		JK	BY
2	11/15/17	RECESSED PANEL NOTATION	JK
1	7/7/17	UPDATE TO 6th ED (2017) FBC	JK
DATE: 5/26/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20461.2			
SHEET 11 OF 14			

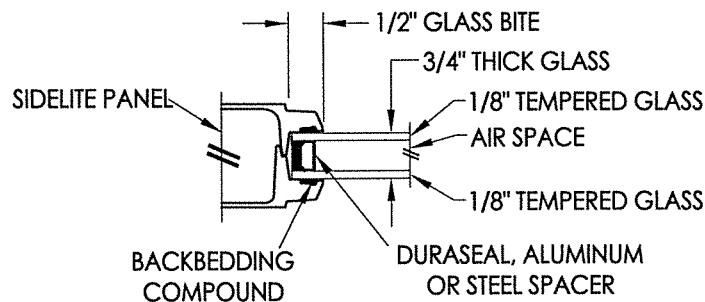
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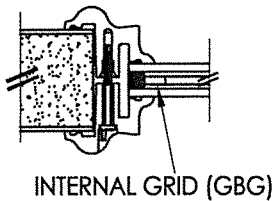
G1 GLAZING DETAIL
BTS Lite Frame
Sidelites



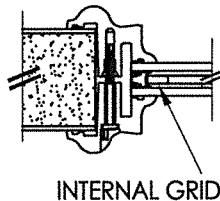
G2 GLAZING DETAIL
BTS Lite Frame
Sidelites



G3 GLAZING DETAIL
Flush Glazing
Sidelites

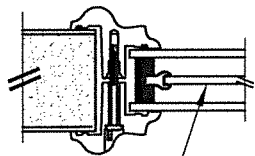


INTERNAL GRID (GBG)

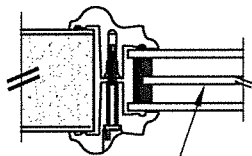


INTERNAL GRID (GBG)
(Optional Aluminum Spacer)

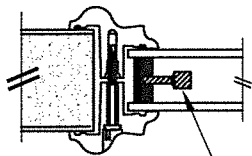
9/16" INSULATED GLASS INSERT OPTIONS



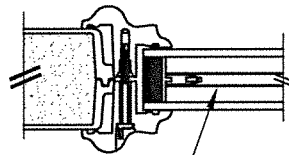
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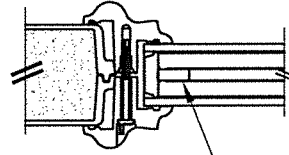
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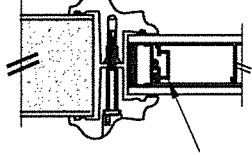
WROUGHT IRON INSERT



INTERNAL GRID (GBG)

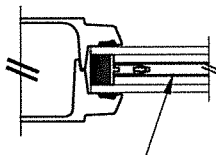


INTERNAL GRID (GBG)
(Optional Aluminum Spacer)

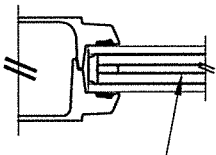


MINI BLIND
(Aluminum Spacer)

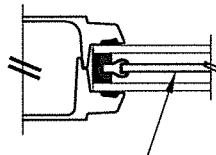
1" INSULATED GLASS INSERT OPTIONS



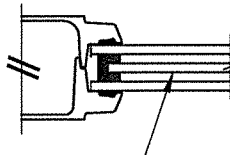
INTERNAL GRID (GBG)



INTERNAL GRID (GBG)

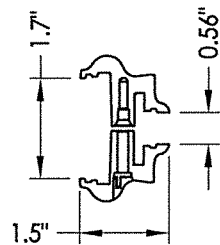


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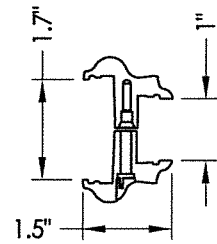


PRIVACY INSERT

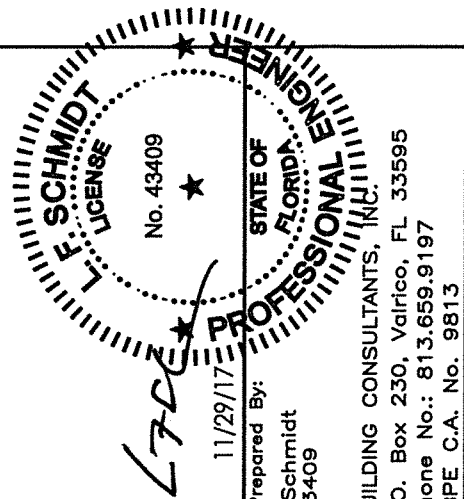
3/4" INSULATED GLASS INSERT OPTIONS



3A BTS LITE FRAME
1/2" & 9/16" Glazing



3B BTS LITE FRAME
1" Glazing



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FBPE C.A. No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
GLAZING DETAILS

NO.	DATE	REVISIONS
2	11/15/17	RECESSED PANEL NOTATION
1	7/7/17	UPDATE TO 6th ED (2017) FBC

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

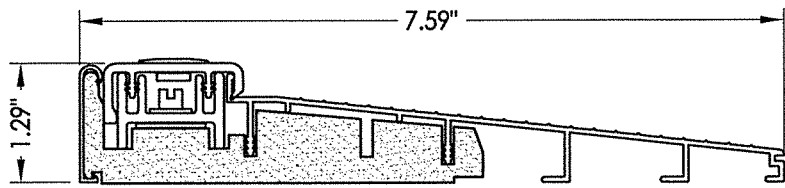
CHK. BY: LFS

DRAWING NO.:

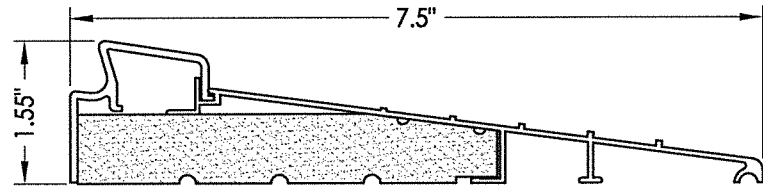
FL-20461.2

SHEET 12 OF 14

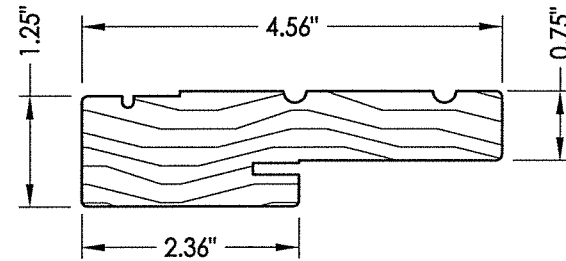
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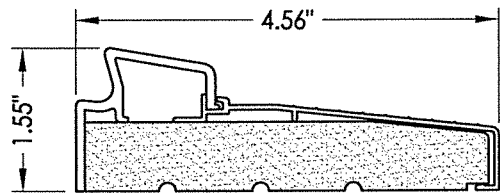
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



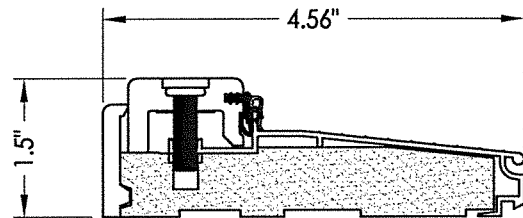
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



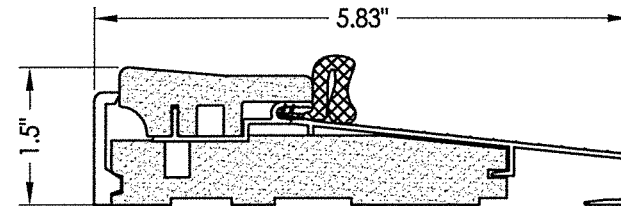
1 WOOD JAMB



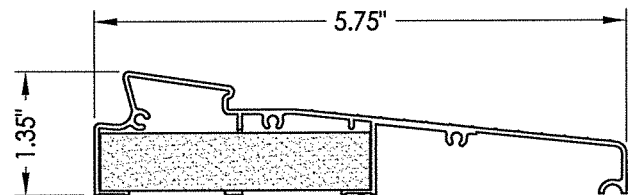
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



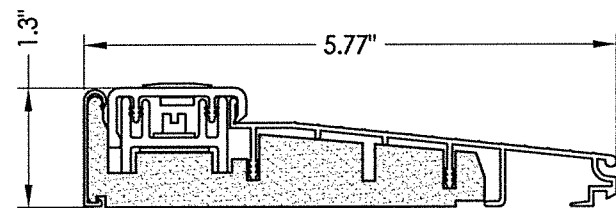
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



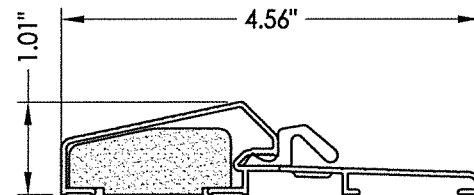
16 OUTSWING THRESHOLD
Composite Sill



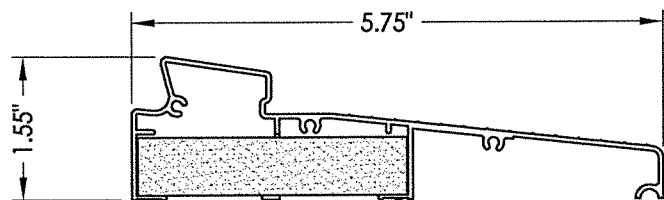
34 INSWING THRESHOLD
Inswing Moderate Climate Sill 1-3/8"



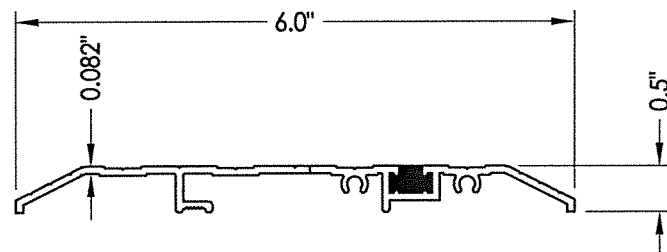
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



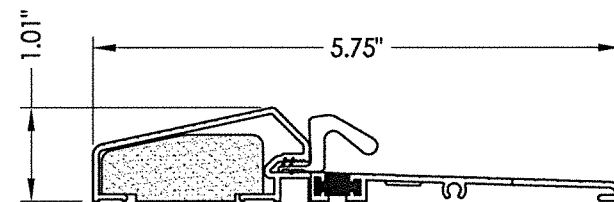
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



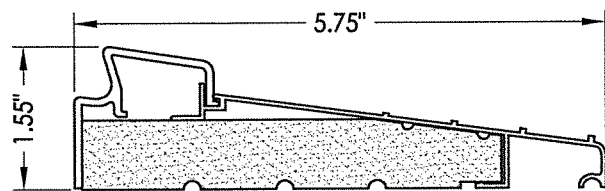
35 INSWING THRESHOLD
Inswing Moderate Climate Sill



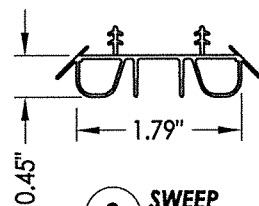
15 PUBLIC ACCESS THRESHOLD



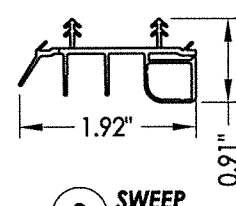
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



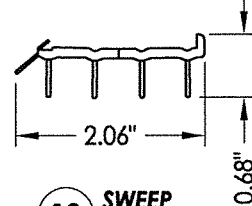
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



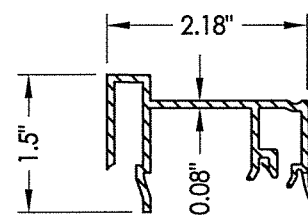
8 SWEEP



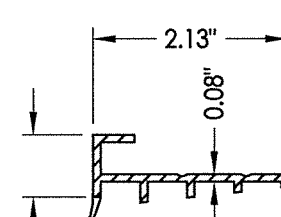
9 SWEEP



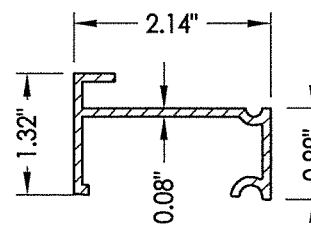
10 SWEEP



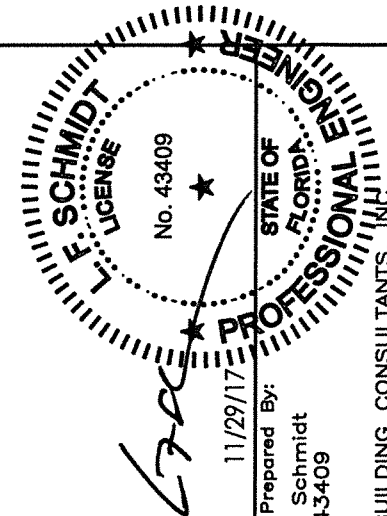
75 SIDELITE SPACER
Inswing



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

11/29/17

R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:		THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY:		COMPONENTS	
					JK		
					JK		
					BY		

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" PFH WOOD SCREW	STEEL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28A	DEADBOLT SUB STRIKE PLATE	STEEL
			29	4" X 4" HINGE	STEEL
F	#10 X 2" PFH WOOD SCREW	STEEL	30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
I	1/4" X 1-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	33	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	34	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	35	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	36	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	37	INSWING THRESHOLD	ALUM/COMP
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	38	INSWING THRESHOLD	ALUM/COMP
7	WEATHERSTRIP (LONG REACH)	FOAM	39	INSWING THRESHOLD	ALUM/COMP
8	SWEEP	VINYL	40	DOOR PANEL (BOOK)	-
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL	41	DOOR PANEL (HYBRID)	-
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	42	DOOR PANEL (U1)	-
15	PUBLIC ACCESS THRESHOLD	ALUM	50	SIDELITE (FULL LITE)	-
16	OUTSWING THRESHOLD	ALUM/COMP	60	SIDELITE (FLUSH GLAZED)	-
17	OUTSWING THRESHOLD	ALUM/COMP	75	SIDELITE SPACER (INSWING)	-
18	OUTSWING THRESHOLD	ALUM/COMP	76	SIDELITE SPACER (OUTSWING)	-
22	#8 x 3/4" PFH WOOD SCREW	STEEL	77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	-
23	#10 x 3/4" PFH WOOD SCREW	STEEL			
24	#10 x 1" PFH WOOD SCREW	STEEL			

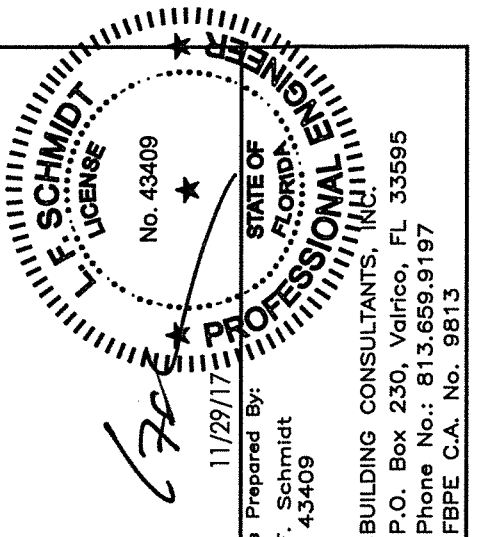
CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	1-1/2"

WOOD SCREW INSTALLATION NOTES:

1. 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. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

[illegible]

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-20461.2

SHEET 14 OF 14

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NOTES:

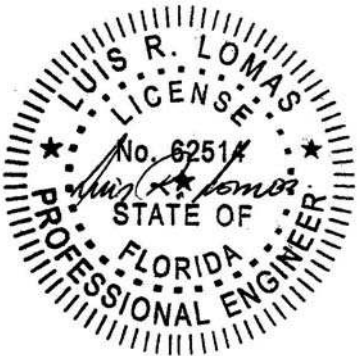
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: EXTRUDED RIGID PVC.
6. UNITS MUST BE GLAZED PER ASTM E1300-04/09.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO METAL STRUCTURE USE #8 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 0.048" THICK MINIMUM

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ADDDRESS & DIMENSION	01/18/15	R.L.
B	REVISED PER NEW TESTING	12/22/16	R.L.

SIGNED: 02/16/2017

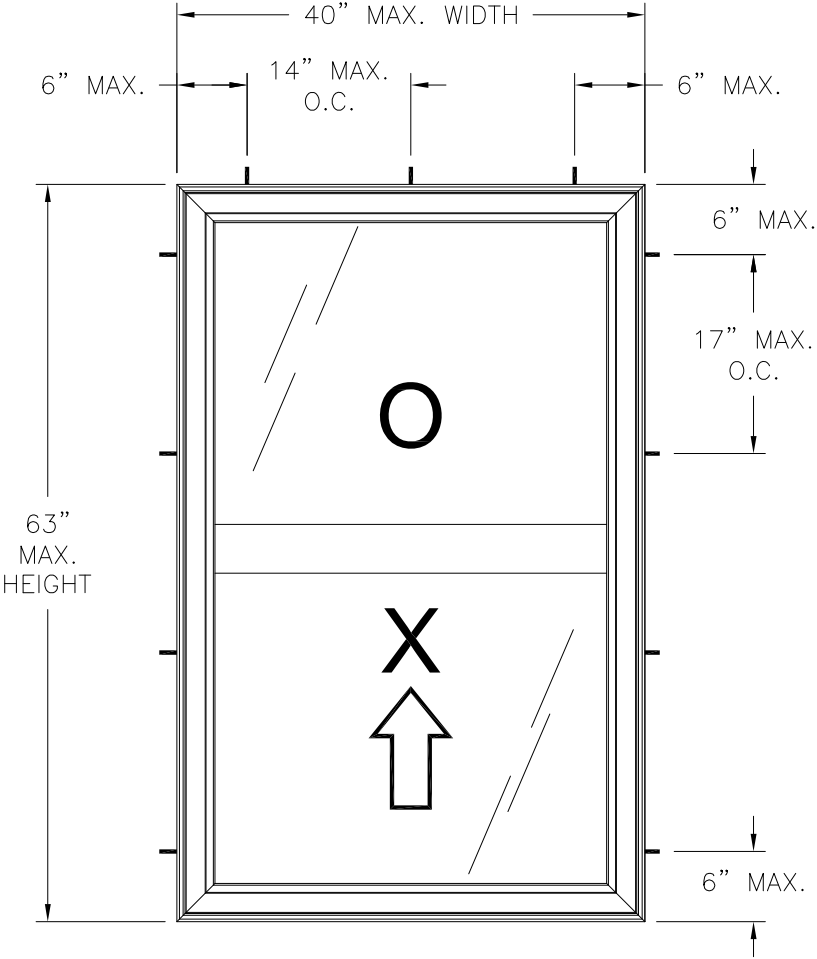
TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS
3 – 6	INSTALLATION DETAILS

MAGNOLIA WINDOW & DOOR 1000 PYRATICH DR. BALDWIN, GA. 30511		
400 SH SINGLE HUNG 40" X 63" NON-IMPACT NOTES		
DRAWN: V.L.	DWG NO. 08-02098	REV B
SCALE NTS	DATE 06/27/13	SHEET 1 OF 6
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

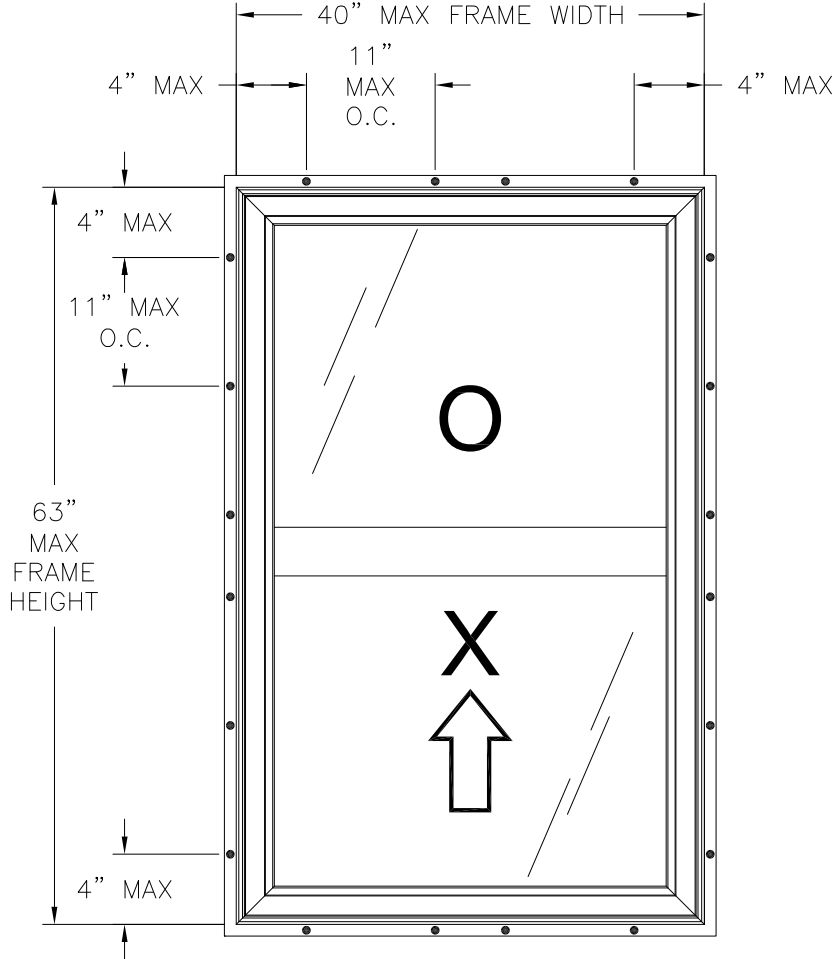


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ADDRESS & DIMENSION	01/18/15	R.L.
B	REVISED PER NEW TESTING	12/22/16	R.L.



400 SH SINGLE HUNG WINDOW
EXTERIOR VIEW
FRAME INSTALLATION



400 SH SINGLE HUNG WINDOW
EXTERIOR VIEW
FIN INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
±35.0PSF	NONE

- NOTES:
1. MAXIMUM SASH SIZE: 37 3/16" X 30 3/8"
 2. MAXIMUM D.L.O.: 35 7/16 X 27 15/16"
 3. (2) 1/4" X 1/8" WEEP SLOT 2 1/2" FROM END AT BOTTOM RAIL.

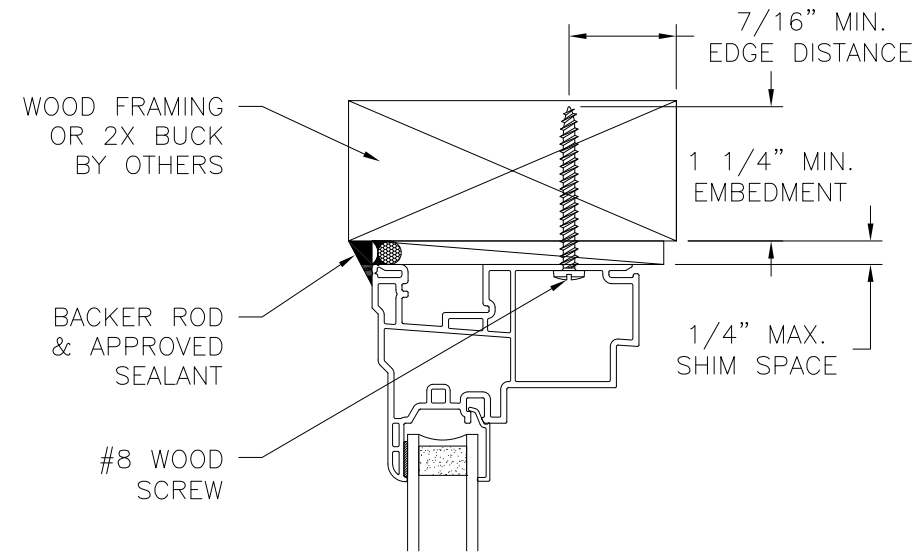
HARDWARE SCHEDULE	
A.	(2) BLOCK & TACKLE BALANCE ONE PER JAMB
B.	(2) TILT LATCHES AT INTERIOR MEETING RAIL ENDS
C.	(2) PIVOT BARS AT BOTTOM RAIL ENDS
D.	(2) CAM LOCK WITH KEEPER 8 1/4" FROM EACH END OF INTERIOR MEETING RAIL
E.	ALUMINUM REINFORCEMENT (058287) AT INTERIOR MEETING RAIL
F.	ALUMINUM REINFORCEMENT (058288) AT EXTERIOR MEETING RAIL

MAGNOLIA WINDOW & DOOR 1000 PYRATICH DR. BALDWIN, GA. 30511		
400 SH SINGLE HUNG 40" X 63" NON-IMPACT ELEVATIONS		
DRAWN: V.L.	DWG NO. 08-02098	REV B
SCALE NTS	DATE 06/27/13	SHEET 2 OF 6
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 02/16/2017

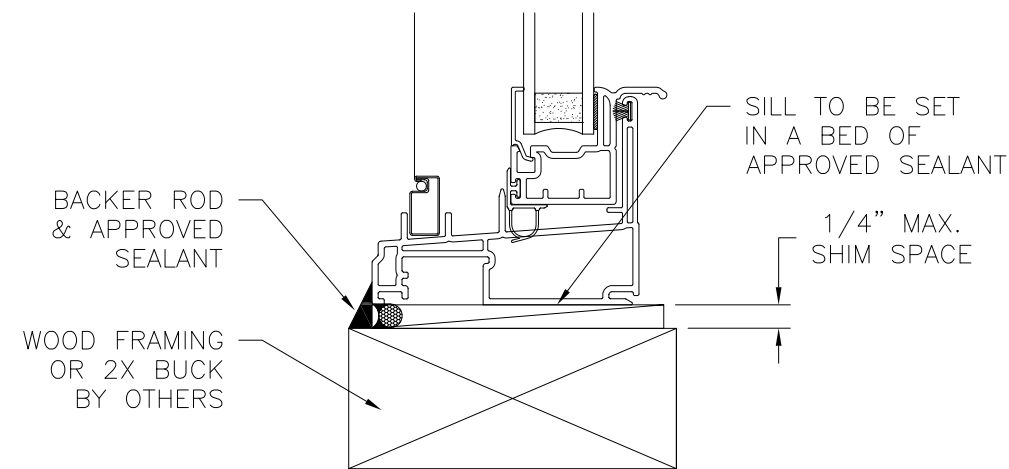


Luis R. Lomas P.E.
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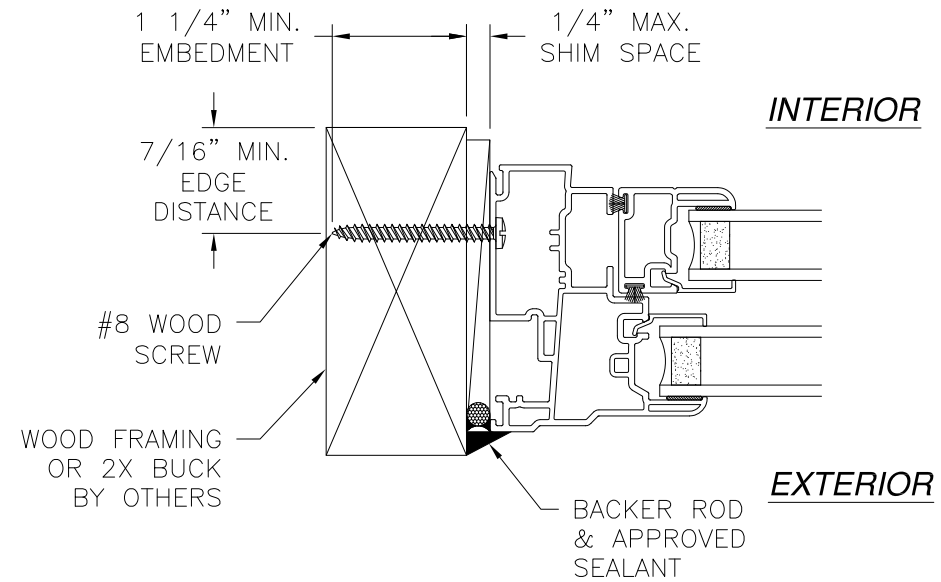


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



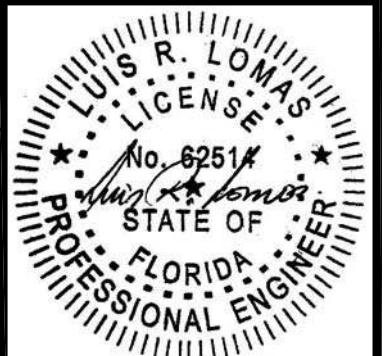
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

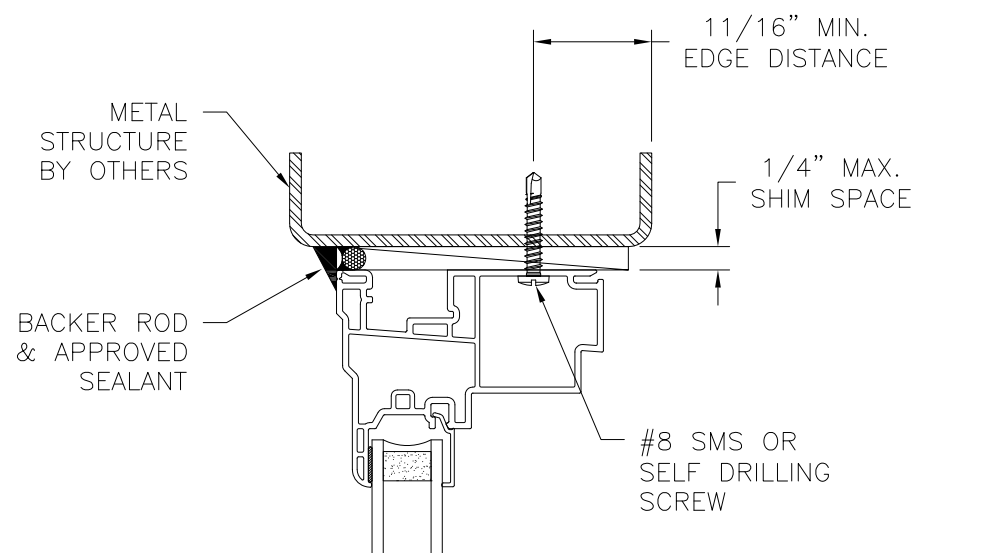
REVISIONS			
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A	REVISED ADDRESS & DIMENSION	01/18/15	R.L.
B	REVISED PER NEW TESTING	12/22/16	R.L.

SIGNED: 02/16/2017

MAGNOLIA WINDOW & DOOR 1000 PYRATICH DR. BALDWIN, GA. 30511		
400 SH SINGLE HUNG 40" X 63" NON-IMPACT INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02098	REV B
SCALE NTS	DATE 06/27/13	SHEET 3 OF 6
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

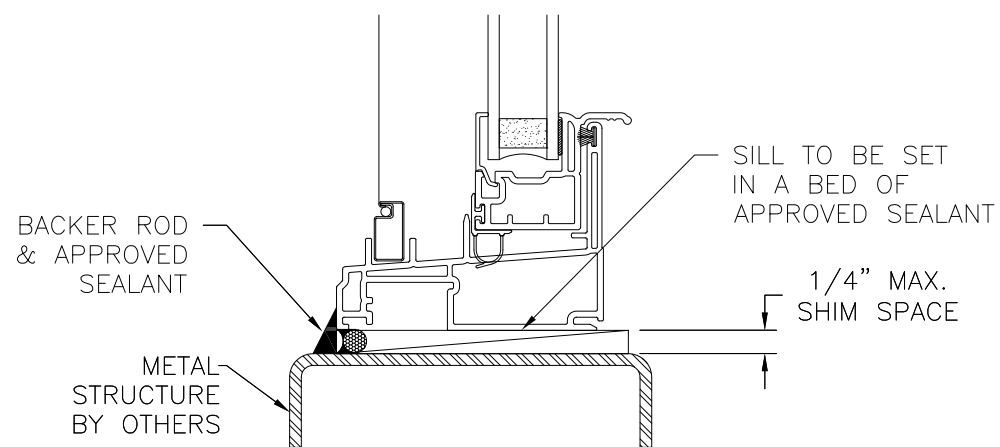


Luis R. Lomas P.E.
FL No.: 62514

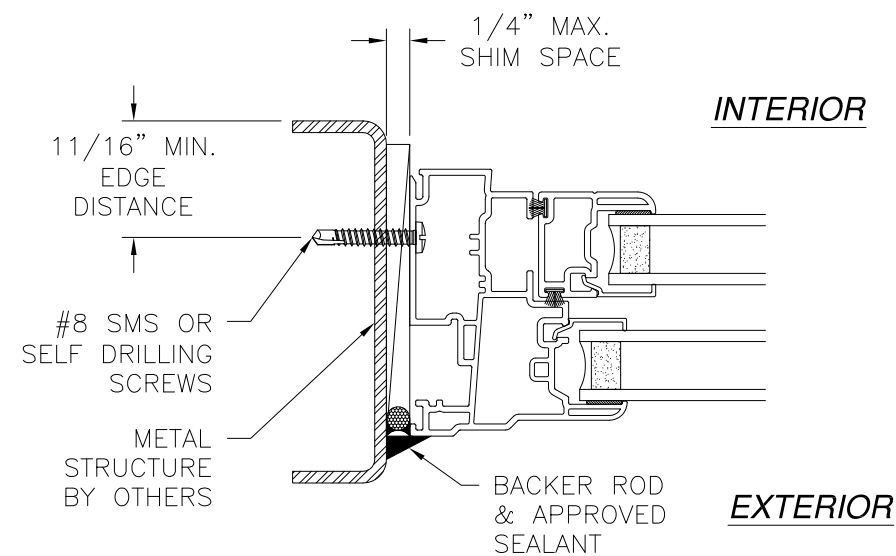


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

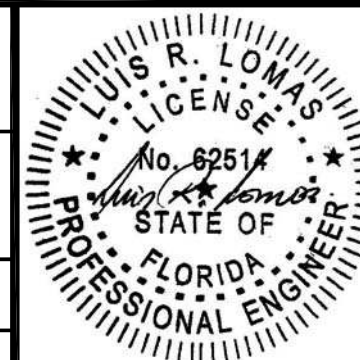
NOTES:

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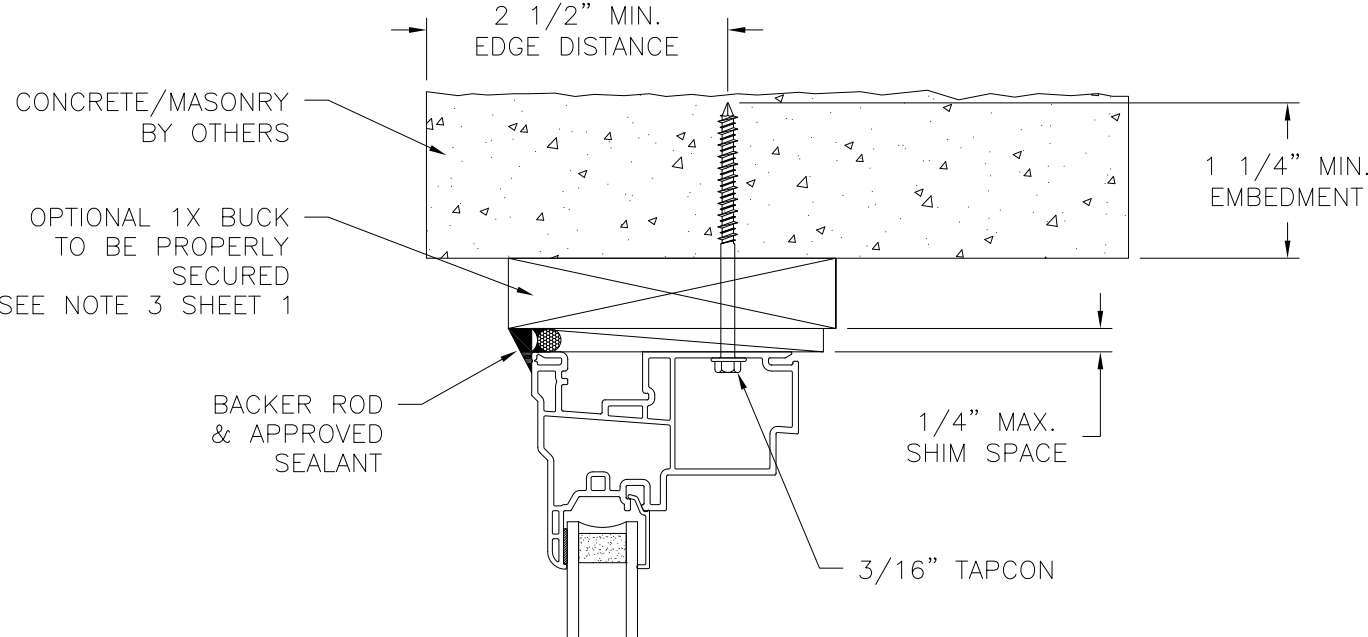
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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B	REVISED PER NEW TESTING	12/22/16	R.L.

SIGNED: 02/16/2017

MAGNOLIA WINDOW & DOOR 1000 PYRATICH DR. BALDWIN, GA. 30511		
400 SH SINGLE HUNG 40" X 63" NON-IMPACT INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02098	REV B
SCALE NTS	DATE 06/27/13	SHEET 4 OF 6
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

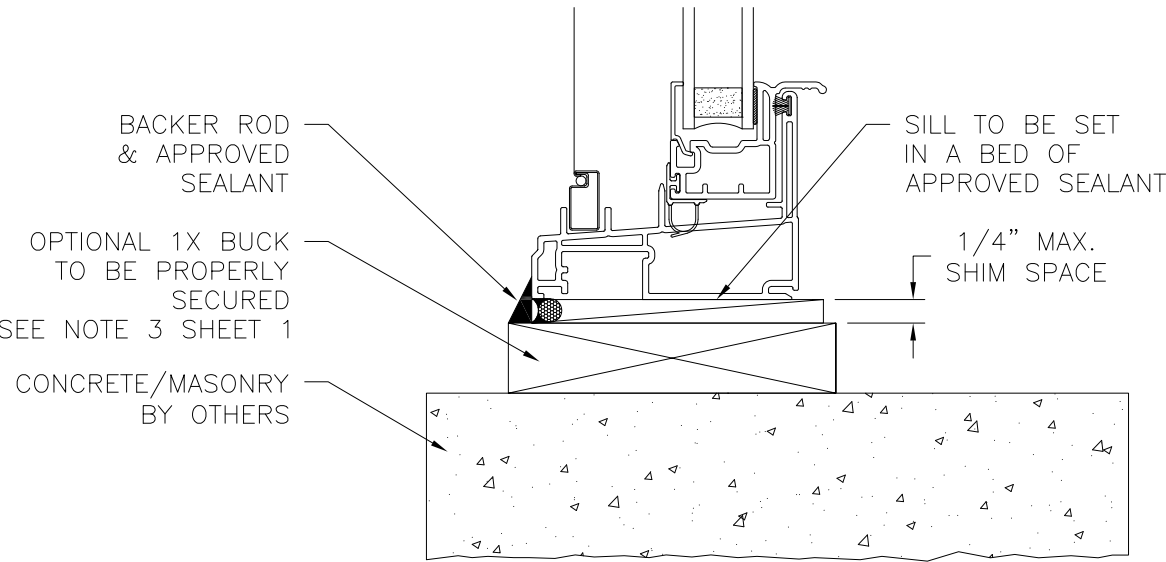


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FL No.: 62514



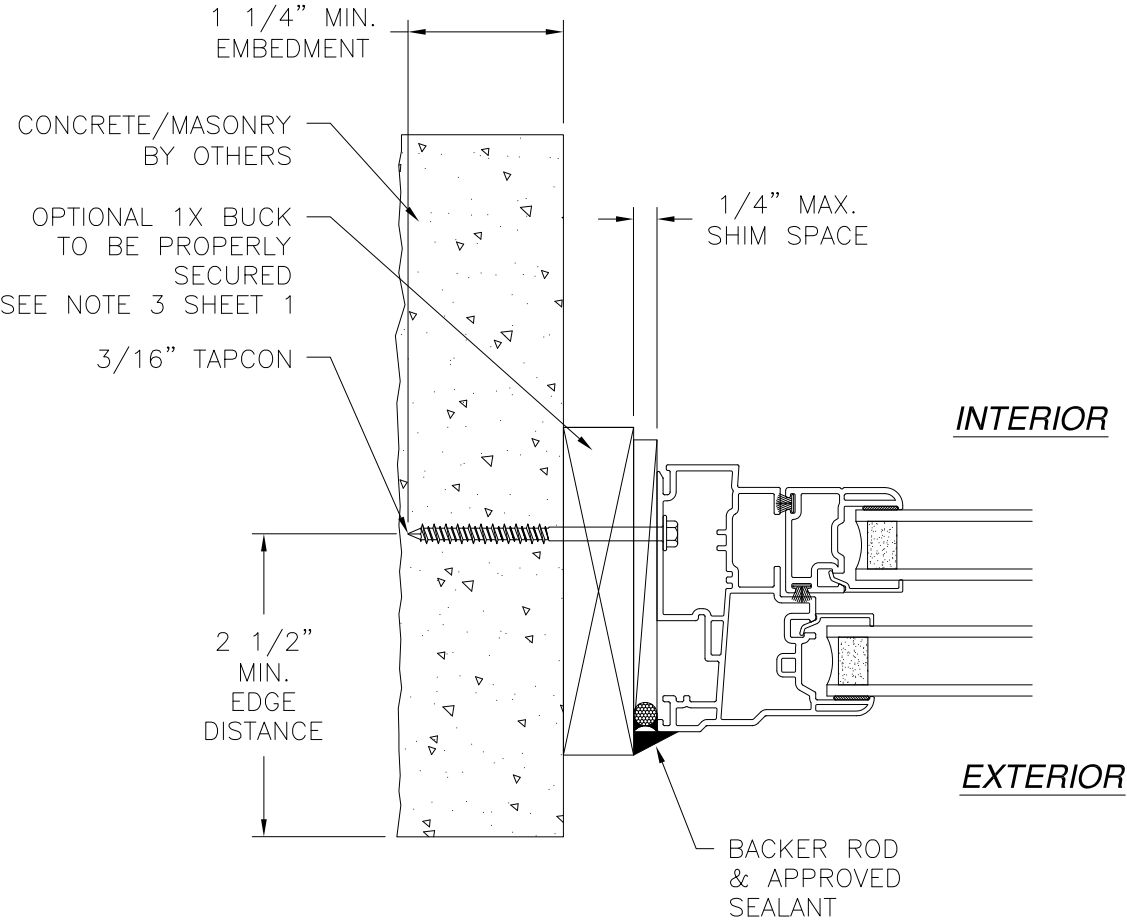
EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ADDRESS & DIMENSION	01/18/15	R.L.
B	REVISED PER NEW TESTING	12/22/16	R.L.



INTERIOR

EXTERIOR

JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 02/16/2017

MAGNOLIA WINDOW & DOOR
1000 PYRATICH DR.
BALDWIN, GA. 30511

400 SH SINGLE HUNG 40" X 63"
NON-IMPACT
INSTALLATION DETAILS

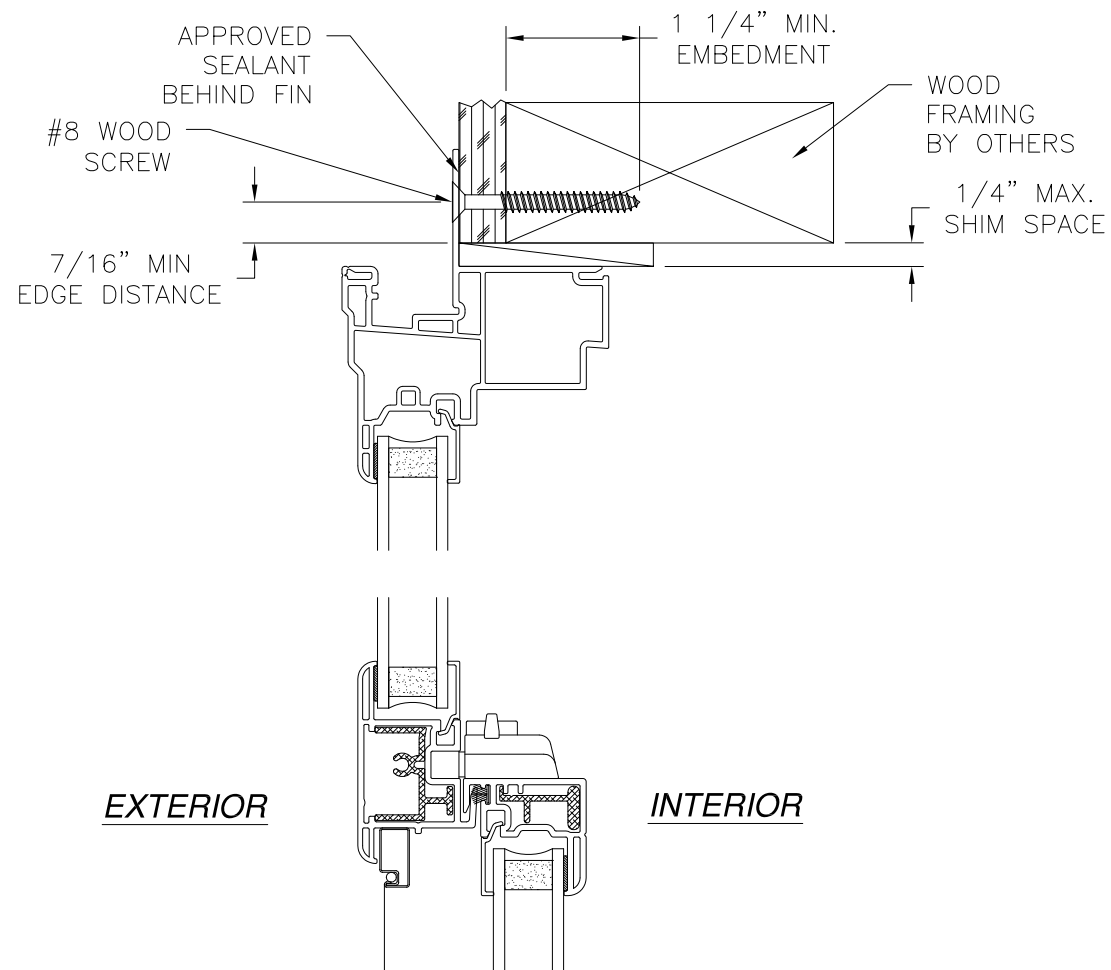
DRAWN: V.L.	DWG NO. 08-02098	REV B
SCALE NTS	DATE 06/27/13	SHEET 5 OF 6

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

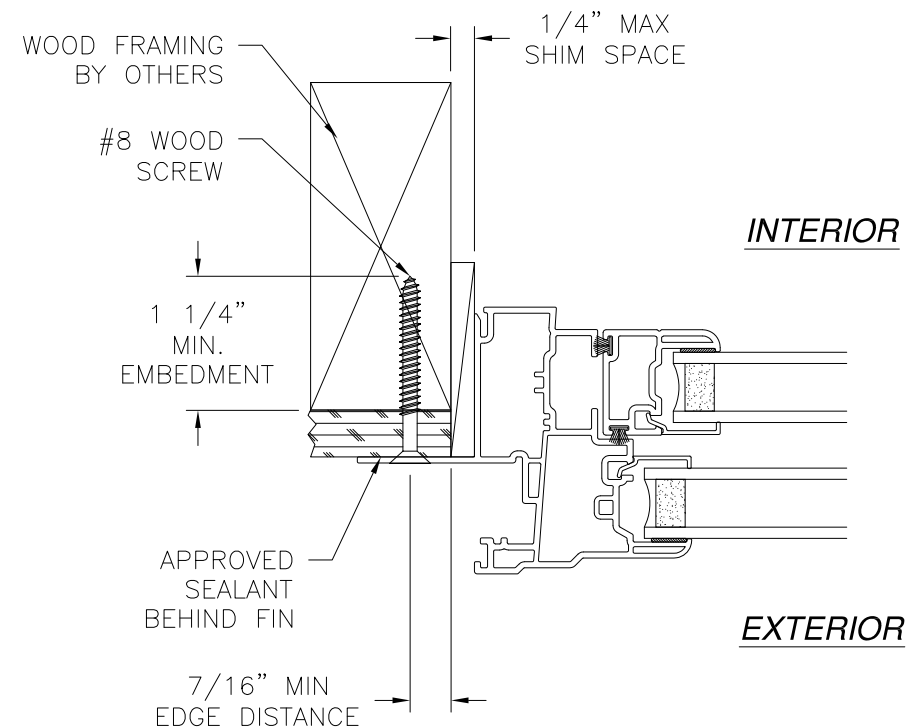


Luis R. Lomas P.E.
FL No.: 62514

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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

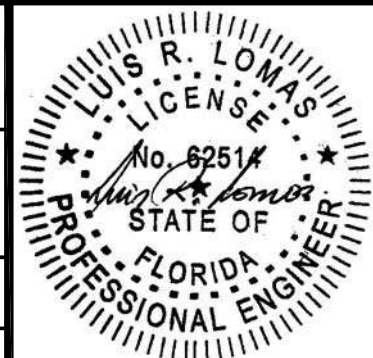


JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 02/16/2017

MAGNOLIA WINDOW & DOOR 1000 PYRATICH DR. BALDWIN, GA. 30511		
400 SH SINGLE HUNG 40" X 63" NON-IMPACT INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02098	REV B
SCALE NTS	DATE 06/27/13	SHEET 6 OF 6
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



Luis R. Lomas P.E.
FL No.: 62514

NOTES:

1. REGAL SHOWN, CELEBRITY, AMERICAN 100, CS, XL, CSX, CSL OR VANTAGE SERIES MAY BE SUBSTITUTED.
2. STRUTS ATTACHED WITH 2 SELF DRILLING SCREWS 1/4"-20 X 3/4" AT EACH STILE LOCATION
3. 4 SECTION HIGH DOOR SHOWN (7FT),TALLER DOOR CONFIGURATIONS MAY BE CONSTRUCTED UP TO A MAXIMUM OF 14FT HIGH, USING SAME PANEL CONSTRUCTION AS SHOWN (MAXIMUM SECTION HEIGHT OF 21").
4. MINIMUM STEEL THICKNESS FOR SECTION IS 25 GA. (.0185").
5. SECTIONS EMBOSSED 14.00"x20.375" ,16" X20.375", 14"x41", 16"x40" OR SECTIONS WITHOUT EMBOSSEMENT MAY ALSO BE USED. (LOCATION AND QUANTITY OF CENTER STILES MUST BE THE SAME).
6. TORSION SPRINGS OR EXTENSION SPRINGS AVAILABLE.
7. LOCK MUST BE ATTACHED AT EACH SIDE OF THE DOOR. CAM & BAR LOCKS OR AN OPENER MAY BE SUBSTITUTED.
8. WOOD MOUNT SHOWN, STEEL AND MASONRY ANGLE AND REVERSE ANGLE MOUNT AVAILABLE. NUMBER OF JAMB BRACKET ANCHOR LOCATIONS MUST BE THE SAME.
9. JAMB DETAIL IN ACCORDANCE WITH DWG. # RCWL-0001
10. THIS DOOR HAS NOT BEEN TESTED FOR WIND-BORNE DEBRIS.
11. USE THIS DRAWING IN CONJUNCTION WITH INSTALLATION INSTRUCTIONS. WHERE THE DRAWING CONFLICTS WITH OTHER INSTALLATION INSTRUCTIONS, THIS DRAWING GOVERNS.

Strut Requirements

# sections	# Struts	
	2-1/4"	3"
4	1	3
5	1	4
6	1	5
7	1	6
8	1	7

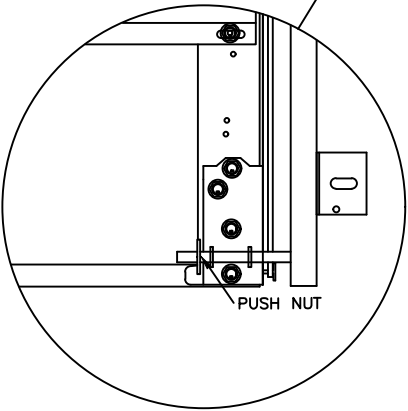
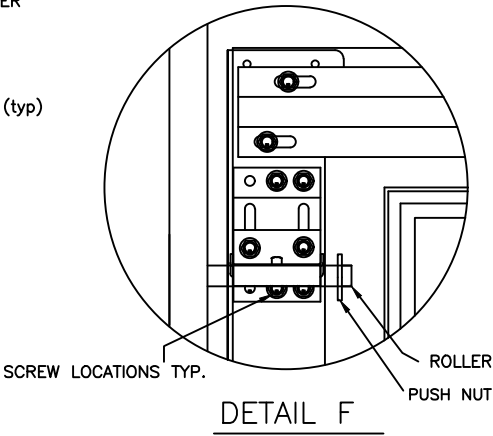
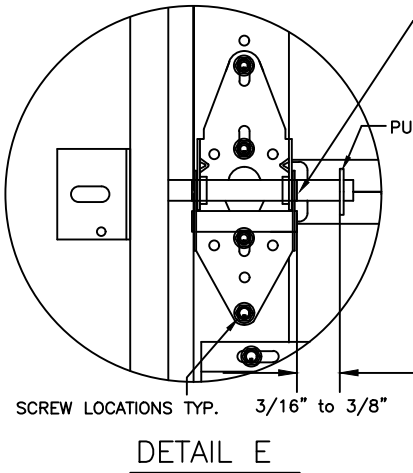
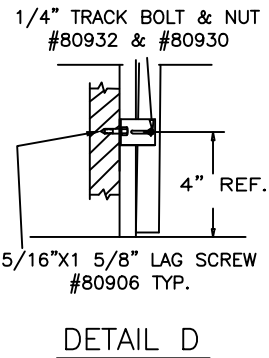
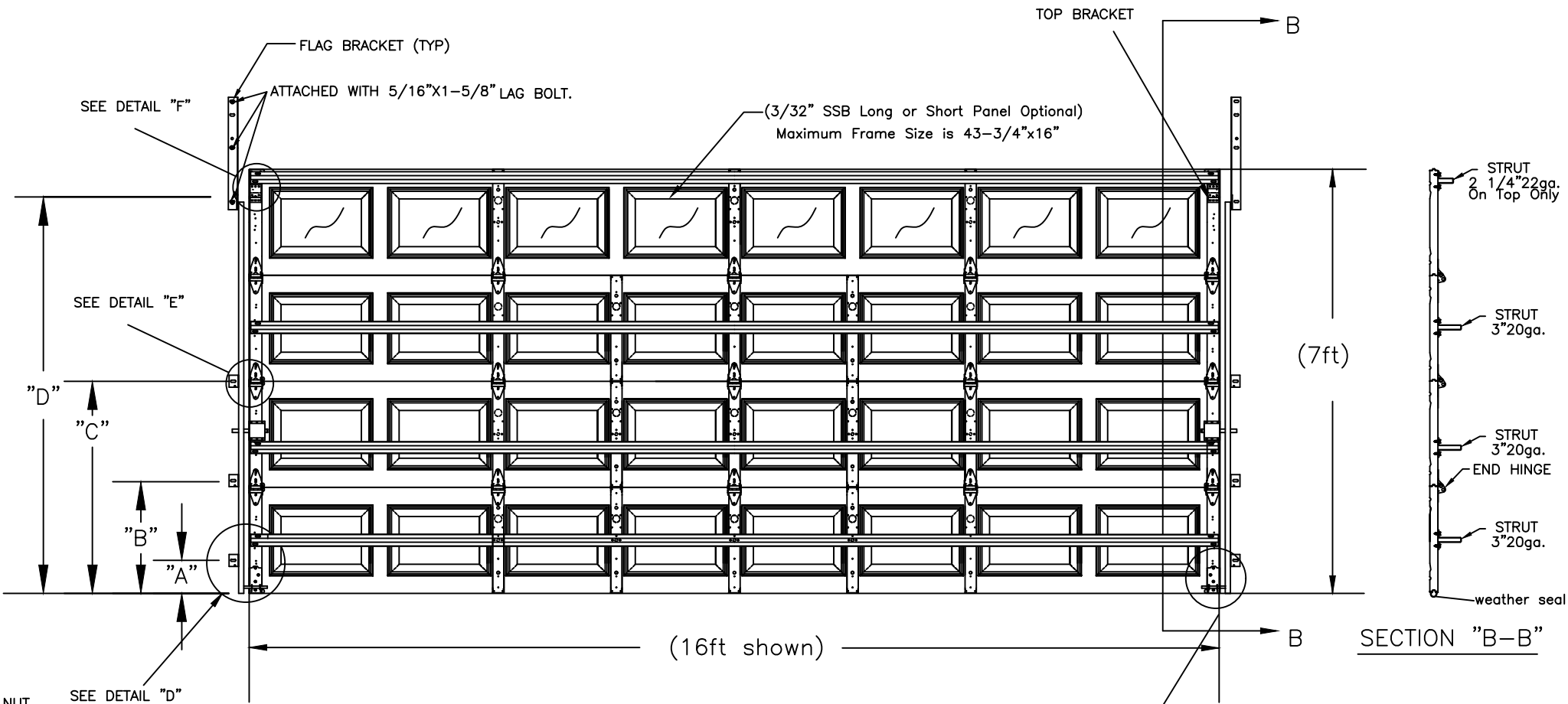
Track Bracket Locations

DOOR HEIGHT	"A"	"B"	"C"	"D"
6'-6" thru 7'-0"	4"	21"	42"	×
7'-6" Thru 8'-9"	4"	21"	42"	60"

For Doors over 9' high one Jamb bracket per section must be added and positioned within 3" of the roller.

Approved Pressures

DOOR WIDTH	DESIGN PRESSURE	MIN # CENTER STILES	
		INT	GLAZED
12'-00"	+ 20.6 PSF / -22.9 PSF	3	2
14'-00"	+ 17.7 PSF / -19.6 PSF	4	3
16'-00"	+ 15.5 PSF / -17.2 PSF	5	3
17'-00"	+ 13.7 PSF / -15.2 PSF	7	3
18'-00"	+ 12.2 PSF / -13.5 PSF	7	3
20'-00"	+ 9.9 PSF / -11.0 PSF	9	4



Digitally signed by John E. Scates P.E.
Date: 2018.04.18 16:45:07 -05'00'

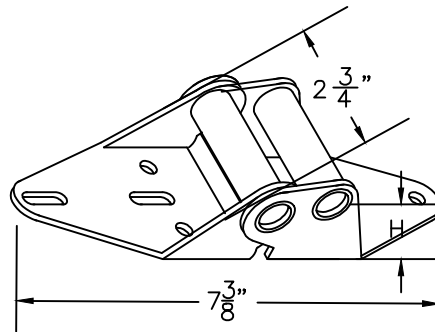
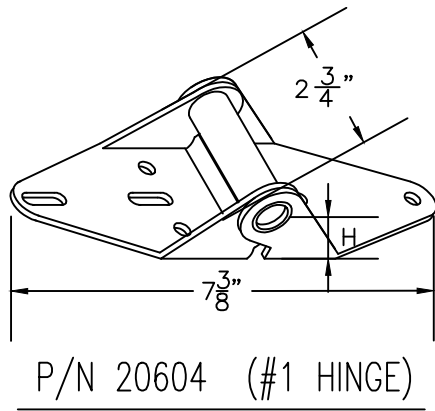
PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS
JOHN E. SCATES, P.E.
2560 King Arthur Blvd #124-24
Lewisville, TX 75056
FL. P.E. # 51737
TX. P.E. # 56308, F-2203

This product was tested/evaluated in accordance with ANSI/DASMA 108

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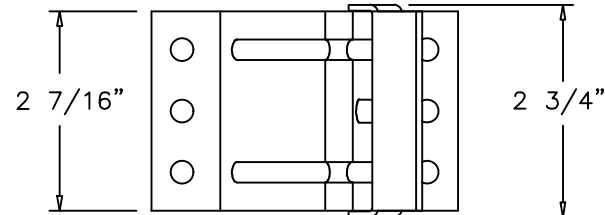
Rev.	By	Date	Description	Rev.	By	Date	Description	SCALE	N.T.S.	DATE
0	BR	11/1/17	NEW DRAWING	8				DRAWN BY	BJR	11-1-17
1	BR	1/26/18	NEW FL REVISION	9				INITIAL CHK.	BJR	"
2				10				FINAL CHK.		"
3				11				ENGR.		"
4				12				APPR. BY		"
5				13						
6				14						
7				15						

 Mid-America Door Company		PONCA CITY, OK	
DESCRIPTION		REGAL/ CELEBRITY WINDLOAD SERIES	
TITLE		DWG. NO.	RC-FWL3-1607
WINDLOAD CONSTRUCTION DETAILS		SHT. 1 OF 2	REV. 1

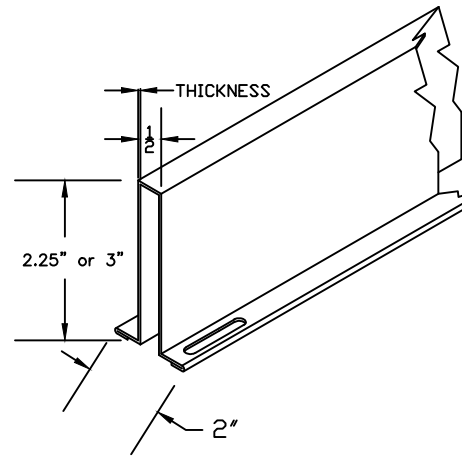
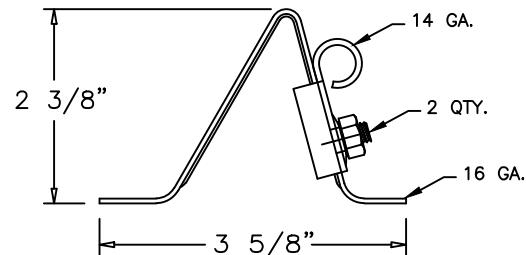


END HINGE

HINGE #	GAGE #	"H"	PART NUMBER
1	14	3/4"	20602
2	14	1"	20606
3	14	1 1/4"	20610
4	14	1 1/2"	20614
5	14	1 3/4"	20616
6	13	2"	20618

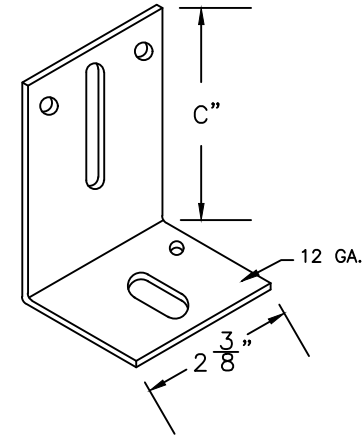


P/N 20356 TOP FIXTURE



STRUTS

THICKNESS OF STRUTS ARE AS STATED BELOW		
2.25" 22 GAUGE 33 KSI MINIMUM YIELD	.028" MIN.	
3" 20 GAUGE 50 KSI MINIMUM YIELD	.036" MIN.	

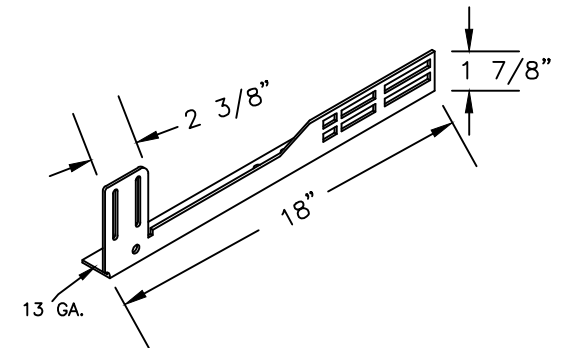


TRACK BRACKET

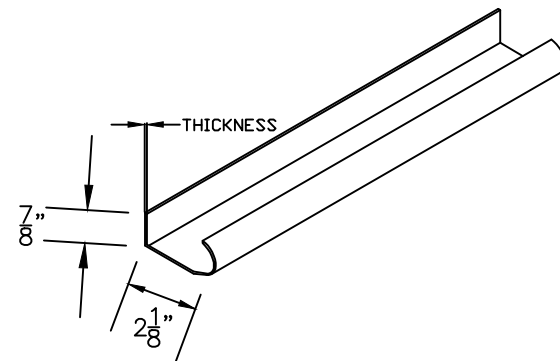
BRACKET #	"C"	PART NUMBER
4	3"	20368
5	3 1/4"	20370
6	3 1/2"	20372
7	3 3/4"	20374
8	4"	20376
9	4 3/4"	20378

NOTES:

1. STRUTS ARE NOT MORE THAN 1 1/2" SHORTER THAN SECTION.
2. USE IN CONJUNCTION WITH INSTALLATION INSTRUCTIONS. WHERE THE DRAWING CONFLICTS WITH OTHER INSTALLATION INSTRUCTIONS, THIS DRAWING GOVERNS.

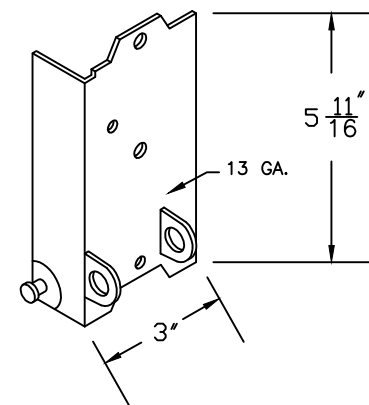


20366 & 7 FLAG BRACKET

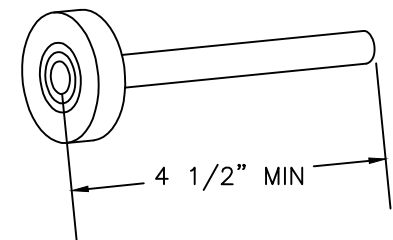


WINDLOAD TRACK

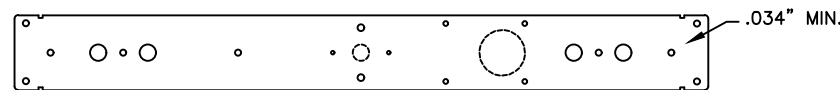
THICKNESS OF TRACK IS AS STATED BELOW		
VERTICAL TRACK IS MIN. 16 GA.	.058" MIN	
HORIZONTAL TRACK IS MIN. 16 GA.	.058" MIN	



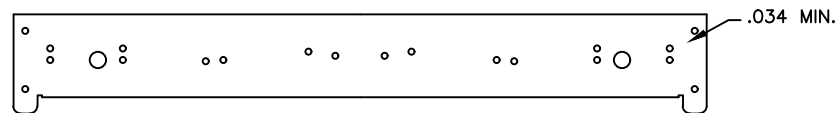
P/N 20334&5 BOTTOM BRKT.



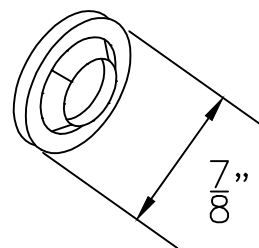
P/N 20812
SHORT STEM 11 BALL NYLON COATED STEEL ROLLER



P/N 10455 & 10465 (21" & 18") CENTER STILE



P/N 10450 & 10460 (21" & 18") END STILE



P/N 20239 PUSH NUT

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0	BR	11/1/17	NEW DRAWING	8				DRAWN BY	BJR	11-1-17
1	BR	1/30/18	NEW FL REVISION	9				INITIAL CHK.	BJR	"
2				10				FINAL CHK.	JAR	"
3				11				ENGR.		"
4				12				APPR. BY	JAR	"
5				13						
6				14						
7				15						

PROFESSIONAL ENGINEER'S
SEAL PROVIDED ONLY FOR
VERIFICATION OF WINDLOAD
CONSTRUCTION DETAILS

JOHN E. SCATES, P.E.
2560 King Arthur Blvd #124-24
Lewisville, TX 75056
FL. P.E. # 51737
TX. P.E. # 56308, F-2203



Mid-America Door Company

PONCA CITY, OK

DESCRIPTION
WINDLOAD SERIES HARDWARE

TITLE
WINDLOAD CONSTRUCTION DETAILS

DWG. NO.
RC-FWL3-1607

SHT.
2
OF
2

REV.
1