

## FLORIDA PRODUCT APPROVAL SPECIFICATION SHEET

CATEGORY / SUB-CATEGORY	MANUFACTURER	PRODUCT DESCRIPTION	APPROVAL NUMBER(S)
<b>EXTERIOR DOORS</b>			
SWINGING	Therma-Tru Corporation	Exterior Doors	FL20461-R7
SLIDING	Ply Gem Windows	Sliding Exterior Door	FL14634-R5
SECTIONAL/ROLLUP	Clopay Building Products Company	Sectional Exterior Door Assemblies	FL15279-R6
OTHER			
<b>WINDOWS</b>			
SINGLE/DOUBLE HUNG	Ply Gem Windows	Windows	FL16104-R7
HORIZONTAL SLIDER			
CASEMENT			
FIXED			
MULLION			
SKYLIGHTS			
OTHER	Ply Gem Windows	Windows	FL16103-R15
<b>ROOFING PRODUCTS</b>			
ASPHALT SHINGLES	CertainTeed LLC	CertainTeed Asphalt Roof Shingles	NOA # 21-1215.02
NON-STRUCT METAL			
ROOFING TILES			
SINGLE PLY ROOF			
OTHER			
<b>PANEL WALL</b>			
SIDING	James Hardie Building Products	Fiber Cement Lap Siding	FL13192-R6
SOFFITS	Kaycan LTD	Aluminum Soffit	FL39367
STOREFRONTS			
GLASS BLOCK			
OTHER			
<b>STRUCTURAL COMPONENTS</b>			
WOOD CONNECTORS	Simpson Strong Tie	Hurricane Connectors	FL10456 R5
WOOD ANCHORS	Simpson Strong Tie	SDS Screws	FL 9589 R6
TRUSS PLATES			
INSULATION FORMS			
LINTELS	Cast-Crete	Precast lintel	NOA #20-0630.16
OTHER			
NEW EXTERIOR			
ENVELOPE PRODUCTS			



**Product Approval**  
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

FL # FL15279-R6  
Application Type Revision  
Code Version 2020  
Application Status Approved

\*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments

Archived



Product Manufacturer  
Address/Phone/Email

Clopay Building Products Company  
8585 Duke Blvd.  
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(513) 770-6062  
mwesterfield@clopay.com

Authorized Signature

Scott Hamilton  
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Technical Representative  
Address/Phone/Email

Quality Assurance Representative  
Address/Phone/Email

Category  
Subcategory

Exterior Doors  
Sectional Exterior Door Assemblies

Compliance Method

Certification Mark or Listing

Certification Agency  
Validated By

Intertek Testing Services NA, Inc.  
Gary Pfoehler



Validation Checklist - Hardcopy Received

Referenced Standard and Year (of Standard)	<b>Standard</b>	<b>Year</b>
	ANSI/DASMA 108	2005
	ANSI/DASMA 115	2005
	ASTM E1886	2002
	ASTM E1996	2002
	ASTM E330	2002

Equivalence of Product Standards  
Certified By

Florida Licensed Professional Engineer or Architect  
[FL15279 R6 Equiv 20200812 - FBC - ASTM 1886-1996 equiv.pdf](#)  
[FL15279 R6 Equiv 20200812 - FBC - DASMA 108 ASTM E330 equiv.pdf](#)

Product Approval Method Method 1 Option A

Date Submitted 12/11/2020  
Date Validated 12/29/2020  
Date Pending FBC Approval  
Date Approved 12/29/2020

15279.20	020 W4-16 PAN-2F153: 73, 1500, 75, 190, 84A, 94, 42, 48, 55, 4RST, 6RST, 4RSF, 6RSF, GD5S, GD5SV, GR5S, GR5SV, AR5S, AR5SV, ED5S, ED5SV	Steel Pan (min. 25 ga.) Double-Car (9'2" to 16'0" wide) WINDCODE® W4 Garage Door
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +24 PSF/-24.5 PSF <b>Other:</b> The standard glazing available for this product meets the wind load requirements of the building code but DOES NOT meet the impact resistant requirement for windborne debris regions.		<b>Certification Agency Certificate</b> <a href="#">FL15279 R6 C CAC Letter with proof of contract and proof of inspection.pdf</a> <a href="#">FL15279 R6 C CAC W4 Listing Intertek.pdf</a> <b>Quality Assurance Contract Expiration Date</b> 05/21/2028 <b>Installation Instructions</b> <a href="#">FL15279 R6 II 101711-B-Rev16.pdf</a> Verified By: Intertek Testing Services NA, Inc. Created by Independent Third Party: <b>Evaluation Reports</b> Created by Independent Third Party:



**NEMO|etc.**

Certificate of Authorization #32455  
353 Christian Street, Unit #13  
Oxford, CT 06478  
(203) 262-9245

ENGINEER

EVALUATE

TEST

CONSULT

**EVALUATION REPORT**

**CertainTeed, LLC**  
20 Moores Road  
Malvern, PA 19355  
**(610) 893-5400**

**Evaluation Report 3532.09.05-R18**  
**FL5444-R17**  
**Date of Issuance: 09/22/2005**  
**Revision 18: 07/20/2021**

**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. The product described herein has been evaluated for compliance with the **7<sup>th</sup> Edition (2020) Florida Building Code** sections noted herein.

**DESCRIPTION: CertainTeed Asphalt Roof Shingles for use in FBC non-HVHZ jurisdictions**

**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 or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

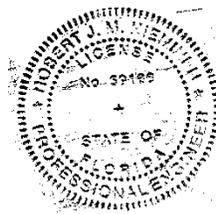
**ADVERTISEMENT:** The Florida Product Approval Number (FL#) preceded by the words **"NEMO Evaluated"** may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

**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 14.

**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 07/20/2021. This does not serve as an electronically signed document.

**CERTIFICATION OF INDEPENDENCE:**

1. NEMO ETC, LLC 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, LLC 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, LLC 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, LLC, have demonstrated compliance with the following sections of the 7<sup>th</sup> Edition (2020) Florida Building Code 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	Material standard	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	2019

**3. REFERENCES:**

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
PRI (TST 5878)	ASTM D3161	256T0015	08/12/2019
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	4786821352	02/21/2015
UL LLC (TST 9628)	ASTM D3161 & D3462	4787195678	02/09/2016
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4787592174	10/21/2016
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 (TST 9628)	ASTM D3161, D3462 & D7158	4788362767	03/03/2018
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4786570717	11/30/2020
UL LLC (QUA 9625)	Quality Control	Service Confirmation	11/13/2019

**4. PRODUCT DESCRIPTION:**
**TABLE 1: ASPHALT SHINGLE COMPONENTS**

Type	Product	Description	Material Standard	Plant(s)
<b>Starter Strips</b>	High-Performance Starter	Fiberglass reinforced starter shingle, measuring 10" x 36", for use with Grand Manor® and Highland Slate®	ASTM D3462	NC
	Presidential® Starter	Fiberglass reinforced starter shingle, measuring 13-1/4" x 40", with a reinforcement on the underside, for use with Presidential Shake® and Presidential Shake® TL	ASTM D3462	CA(F)
	Presidential® Starter IR	Fiberglass reinforced starter shingle, measuring 13-1/4" x 40", for use with Presidential Shake® IR	ASTM D3462	CA(F)
	SwiftStart® Starter Shingle	Fiberglass reinforced starter strip, measuring 15-1/4" x 38-3/4"	ASTM D3462	MN
	Universal Starter	Fiberglass reinforced starter shingle, measuring 7" x 36", for use with shingles measuring 12" x 36" having a weather exposure ≤ 5"	ASTM D3462	NC
<b>Asphalt Shingles</b>	CT 20™	Fiberglass reinforced, 3-tab asphalt roof shingle	ASTM D3462	LA, NC
	CT 20™ Metric			OR
	XT™ 25			LA, MN, NC, OH
	XT™ 25 Metric			OH, OR
	XT™ 30 IR			LA
	Highland Slate®	Fiberglass reinforced, 4-tab asphalt roof shingle	ASTM D3462	NC
	Arcadia™	Fiberglass reinforced, laminated asphalt roof shingle	ASTM D3462	CA(F)
	Belmont®			NC
	Belmont® IR			NC
	Carriage House®			NC
	Grand Manor®			NC
	Landmark®			CA(W), GA, LA, MA, MO, MN, NC, OH, OR, TX
	Landmark® ClimateFlex®			MN
	Landmark® Pro			CA(W), GA, MA, MO, MN, OH, NC
	Landmark® Pro Architect 80			OR
	Landmark Pro Solaris®			CA(W)
	Landmark® Premium			CA(W), MA, MN, OR, NC
	Landmark Solaris®			CA(W), OR
	Landmark Solaris® Gold/Platinum			OR
	Landmark® TL			CA(F)
	Landmark® TL Solaris			CA(F)
	NorthGate® ClimateFlex®	Fiberglass reinforced, laminated, SBS modified bitumen roof shingle	ASTM D3462	MN, OR
	Presidential Shake®	Fiberglass reinforced, architectural asphalt roof shingle	ASTM D3462	CA(F), MN
	Presidential Shake® IR			MN
	Presidential Shake® TL			CA(F), MN
	Presidential Solaris®			CA(F)
Presidential TL Solaris	CA(F)			
Patriot	Fiberglass reinforced asphalt roof strip-shingle; laminated appearance	ASTM D3462	OH, OR	

**Note:** Any of the above listed shingles may be produced in AR (algae resistant) versions

TABLE 1 (CONTINUED): ASPHALT SHINGLE COMPONENTS				
Type	Product	Description	Material Standard	Plant(s)
Hip & Ridge Shingles	Shangle Ridge®	Fiberglass reinforced accessory shingles for hip and ridge installation	ASTM D3462	NC
	Shadow Ridge®		ASTM D3462	MA, MN, NC, OH
	Shadow Ridge® Metric		ASTM D3462	OR
	Cedar Crest®		None	NC
	Cedar Crest® IR		None	NC
	Shadow Ridge® ClimateFlex®, 4pc		ASTM D3462	OR
	Shadow Ridge® ClimateFlex®		ASTM D3462	MN

## 5. LIMITATIONS:

- 5.1 This is a Building Code Evaluation. Neither NEMO ETC, LLC 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 in FBC High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 **Wind Classification:** Refer to Section 6 for installation requirements to meet wind classifications.

TABLE 2A: WIND CLASSIFICATIONS, ASPHALT SHINGLES	
Product	FBC Table 1507.2.7.1 or R905.2.6.1
CT 20™	ASTM D3161(F) & ASTM D7158(H)
CT 20™ Metric	ASTM D3161(F) & ASTM D7158(H)
XT™ 25	ASTM D3161(F) & ASTM D7158(H)
XT™ 25 Metric	ASTM D3161(F) & ASTM D7158(H)
XT™ 30 IR	ASTM D3161(F) & ASTM D7158(H)
Arcadia™	ASTM D3161(F) & ASTM D7158(H)
Belmont®	ASTM D3161(F) & ASTM D7158(H)
Belmont® IR	ASTM D3161(F) & ASTM D7158(H)
Carriage House®	ASTM D3161(F) & ASTM D7158(H)
Grand Manor®	ASTM D3161(F) & ASTM D7158(H)
Landmark®	ASTM D3161(F) & ASTM D7158(H)
Landmark® ClimateFlex®	ASTM D3161(F) & ASTM D7158(H)
Landmark® Pro	ASTM D3161(F) & ASTM D7158(H)
Landmark® Pro Architect 80	ASTM D3161(F) & ASTM D7158(H)
Landmark Pro Solaris®	ASTM D3161(F) & ASTM D7158(H)
Landmark® Premium	ASTM D3161(F) & ASTM D7158(H)
Landmark Solaris®	ASTM D3161(F) & ASTM D7158(H)
Landmark Solaris® Gold/Platinum	ASTM D3161(F) & ASTM D7158(H)
Landmark® TL	ASTM D3161(F) & ASTM D7158(H)
NorthGate® ClimateFlex®	ASTM D3161(F) & ASTM D7158(H)
Presidential Shake®	ASTM D3161(F) & ASTM D7158(H)

TABLE 2A: WIND CLASSIFICATIONS, ASPHALT SHINGLES	
Product	FBC Table 1507.2.7.1 or R905.2.6.1
Presidential Shake® IR	ASTM D3161(F) & ASTM D7158(H)
Presidential Shake® TL	ASTM D3161(F) & ASTM D7158(H)
Presidential Solaris®	ASTM D3161(F) & ASTM D7158(H)
Presidential TL Solaris	ASTM D3161(F) & ASTM D7158(H)
Highland Slate®	ASTM D3161(F) & ASTM D7158(H)
Patriot	ASTM D3161(F) & ASTM D7158(H)

### 5.5.1 Classification by ASTM D7158:

ASTM D7158, Class H applies only 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.

**Analysis in accordance with ASTM D7158** indicates the measured uplift resistance ( $R_T$  or  $R_A$ ) for the CertainTeed asphalt Roof shingles listed in Table 1 (*except Presidential Solaris®, Landmark Pro Solaris® and Landmark Solaris® Gold/Platinum*) exceeds the calculated uplift force ( $F_T$ ) under the following conditions:

- maximum design wind speed of  $V_{asd} = 150$  mph ( $V_{ult} = 194$  mph)
- located in Exposure D conditions
- no topographical variations (flat terrain)
- having a mean roof height less than or equal to 60 feet.

The shingles (*except Presidential Solaris®, Landmark Pro Solaris® and Landmark Solaris® Gold/Platinum*) 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.

TABLE 2B: WIND CLASSIFICATIONS, STARTER STRIPS AND HIP & RIDGE		
Type	Product	FBC Table 1507.2.7.1 or R905.2.6.1
<b>Starter Strips</b>	High-Performance Starter	ASTM D3161, Class F
	Presidential® Starter	ASTM D3161, Class F
	Presidential® Starter IR	ASTM D3161, Class F
	SwiftStart® Starter Shingle	ASTM D3161, Class F
	Universal Starter	ASTM D3161, Class F
<b>Hip &amp; Ridge Shingles</b>	Shangle Ridge®	ASTM D3161, Class F (sealant required, See Section 6)
	Shadow Ridge® (NC production)	ASTM D3161, Class F
	Shadow Ridge® (MA, MN or OH production)	ASTM D3161, Class F (sealant required, See Section 6)
	Shadow Ridge® Metric (OR production)	ASTM D3161, Class F (sealant required, See Section 6)
	Cedar Crest®	ASTM D3161, Class F (sealant required, See Section 6)
	Cedar Crest® IR	ASTM D3161, Class F (sealant required, See Section 6)
	Shadow Ridge® ClimateFlex®, 4pc	ASTM D3161, Class F
	Shadow Ridge® ClimateFlex®	ASTM D3161, Class F

5.5.2 **High-Performance Starter** shingles are limited to use with **Grand Manor®** and **Highland Slate®** shingles.

5.5.3 **Presidential® Starter** shingles must be applied using two (2) overlapping layers and are limited to use with **Presidential Shake®** and **Presidential Shake® TL** shingles.

5.5.4 **Presidential® Starter IR** shingles must be applied using two (2) overlapping layers and are limited to use with **Presidential Shake® IR** shingles.

- 5.5.5 **Universal Starter** shingles are limited to use with CertainTeed shingles measuring 12" x 36" having a weather exposure  $\leq 5"$ .
- 5.6 All components in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**. Refer to the Product Approval of the component manufacturer for components that are produced by a Product Manufacturer other than the report holder on Page 1 of this Evaluation Report.

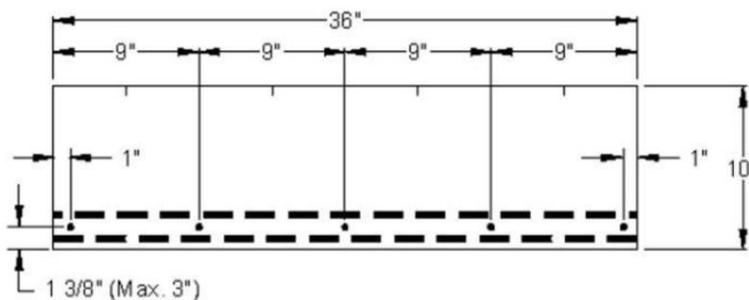
**6. INSTALLATION:**

- 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, LLC** 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, LLC** 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 HIGH-PERFORMANCE STARTER:**

- 6.4.1 Eaves: For the first starter shingle in each roof corner, use five (5) nails as shown below. All other starter shingles require four (4) nails per shingle. Nails must be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8" heads. Apply the 10" starter shingle with its factory-applied sealant stripes at the shingle's lower-most edge and nail firmly into the roof deck as near as possible \*(maximum 3") to the eaves edge while avoiding the sealant. With the starter shingle well fastened to the deck and the sealant low on the starter shingle, it can firmly adhere to the first course shingles. \*If nailing within 3" is not possible, nail as closely as possible, then lift and adhere the starter shingle to the underlayment and to the supporting structure with CertainTeed FlintBond™ Asphalt Roofing Cement-Caulk Grade, or approved equal.
- Rakes: Prior to installation of the field shingles, starter shingles may be applied up the slope along the rake edge with sealant edge placed closest to the rake edge. Fasten as indicated below.

**HIGH-PERFORMANCE STARTER SHINGLES**



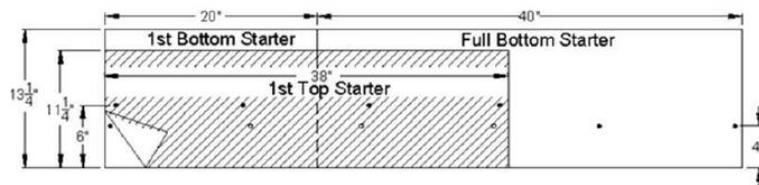
**6.5 PRESIDENTIAL® STARTER AND PRESIDENTIAL® STARTER IR:**

6.5.1 General: These shingles shall be applied by using two (2) overlapping layers. Begin application of the bottom/lower layer of starter shingles by cutting and applying a 13-3/4" x 20" piece at the lower left rake/eaves corner overhanging rakes and eaves 1/4" to 3/4". Continue along the eaves with full-size 13-1/4" x 40" starter shingles. Each top/upper starter course shingle shall have its 2" top section removed at the perforations, resulting in 11-1/4" x 40" shingles. The colored granule portion of the "top" starter shingles shall be located nearest the lowermost eave edge. Install the first top/upper starter shingle so that it is flush to the left side and bottom edges of the first bottom/lower starter shingle. This first top/upper starter shingle shall be 11-1/4" x 38". Continue along the eaves with 11-1/4" x 40" top/upper starter shingles ensuring that the lower edges are flush with the lower edges of the bottom/lower layer. Reference the product's wrapper for more specific details.

Eaves: Fasten as shown below. Rakes: After applying the starter shingles at the eaves, but prior to installing the field shingles, starter shingles may be applied up the slope at the rake edge. Fasten as shown below.

Fastening: Four nails are required per shingle. Nails shall be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8" heads.

**Presidential Starter and Presidential IR Starter Shingles**



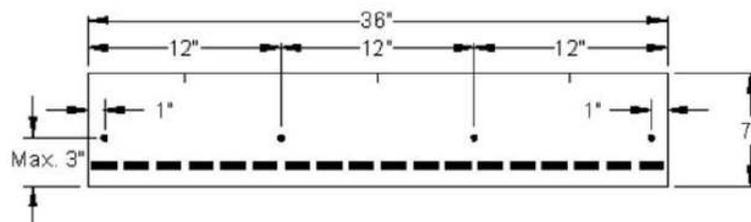
**6.6 UNIVERSAL STARTER:**

6.6.1 General: While Universal Starter Strip shingles are specifically designed to be used with shingles 36" length and having a weather exposure of ≤ 5", they may be installed beneath shingles of any length if special precautions are taken. **IMPORTANT:** In all cases the end joints of the starter and the first course shingles shall NEVER BE LESS THAN 3-1/2" apart.

Eaves: The sealant on starter courses should face out and lie as close as possible to the eaves edge of the roof. Fasten as described below. Rakes: After applying the starter shingles at the eaves, but prior to installing the field shingles, starter shingles may be applied up the slope at the rake edge with sealant facing out and nearest to the outer roof edge. Fasten as described below.

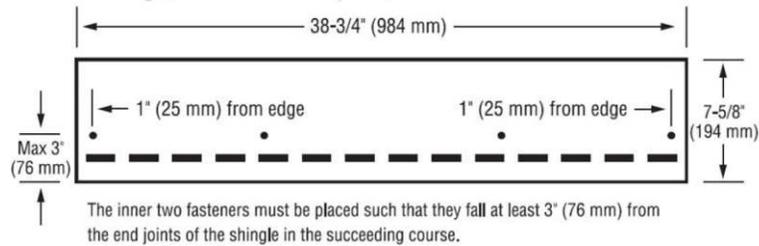
Fastening: Use four nails on these starter shingles as shown below. The sealant on starter courses shall lie as close as possible to the eaves edge of the roof. Nails shall be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8" heads.

**UNIVERSAL STARTER SHINGLES**



**6.7 SWIFTSTART® STARTER SHINGLE:**

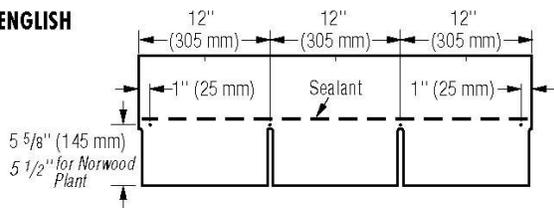
**Fastening: Use four nails, located as shown below**



**6.8 CT 20™, XT™ 25, XT™ 30 IR:**

**LOW AND STANDARD SLOPE**

**ENGLISH**



**METRIC**

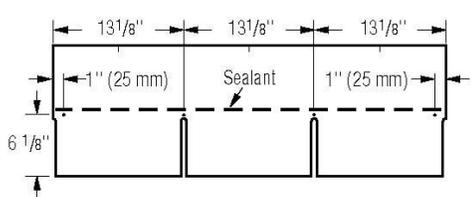
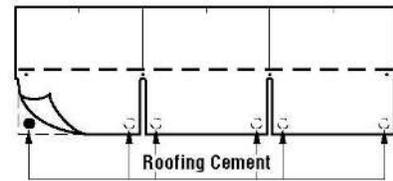


Figure 11-3: Use **four** nails for every full shingle.

**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.

**Hip & Ridge: Cut Shingles**

**Note:** The use of BASF "Sonolastic® NP1™" adhesive or Henkel "PL® Polyurethane Roof & Flashing Sealant" in accordance with CertainTeed requirements is required for the ASTM D3161, Class F wind rating.

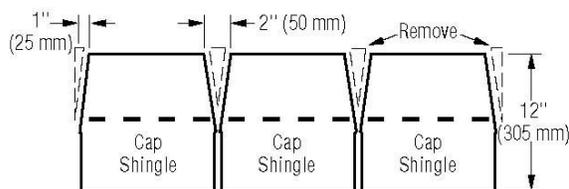


Figure 11-24: Cut tabs, then trim back to make cap shingles (English dimensions shown).

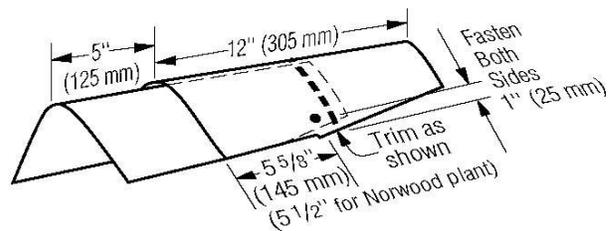


Figure 11-25: Installation of caps along the hips and ridges.

**6.9 ARCADIA™:**

**LOW AND STANDARD SLOPE**

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

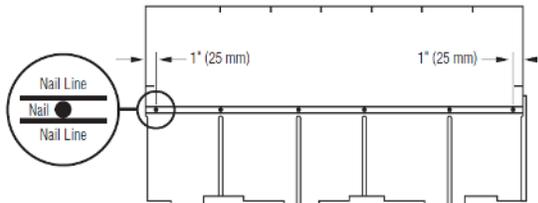


Figure 2: Use six nails for every full shingle.

**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.

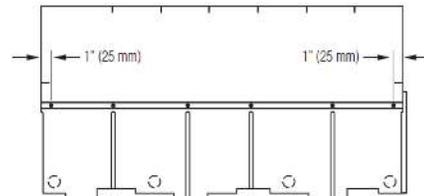
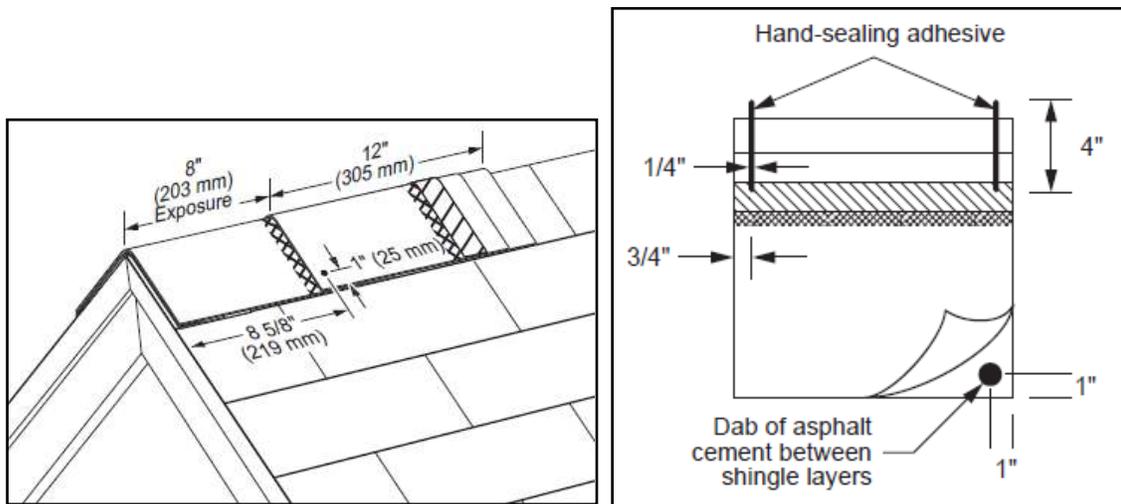


Figure 3: Use six nails and four spots of asphalt roofing cement on steep slopes.

**Hip & Ridge: Cedar Crest® or Cedar Crest® IR**

Use two (2), minimum 1¾-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.

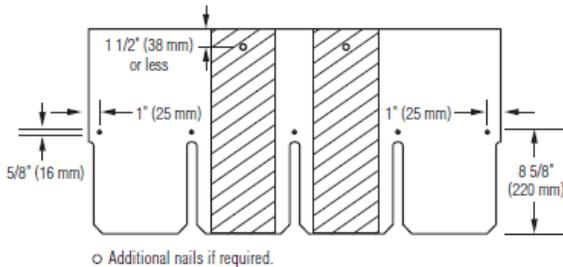
*Note: The use of BASF "Sonolastic® NP1™" adhesive or Henkel "PL® Polyurethane Roof & Flashing Sealant" in accordance with CertainTeed requirements is required for the ASTM D3161, Class F wind rating.*



**6.10 BELMONT® OR BELMONT® IR:**

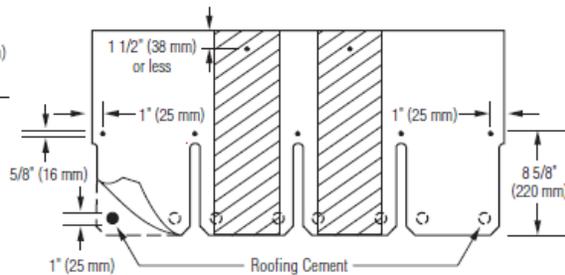
**Low and Standard Slope  
(2:12 to 21:12):**

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.



**Hip & Ridge:**

- Option 1:** For Belmont®, refer to instructions for Cedar Crest® or Cedar Crest® IR.  
For Belmont® IR, refer to instructions for Cedar Crest® IR.

*Note: The use of BASF "Sonolastic® NP1™" adhesive or Henkel "PL® Polyurethane Roof & Flashing Sealant" in accordance with CertainTeed requirements is required for the ASTM D3161, Class F wind rating.*

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

*Note: The use of BASF "Sonolastic® NP1™" adhesive or Henkel "PL® Polyurethane Roof & Flashing Sealant" in accordance with CertainTeed requirements is required for the ASTM D3161, Class F wind rating.*

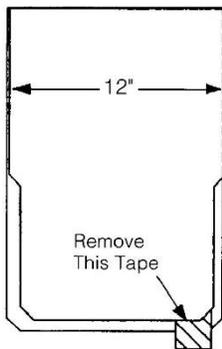


Figure 17-18: Shangle® Ridge.

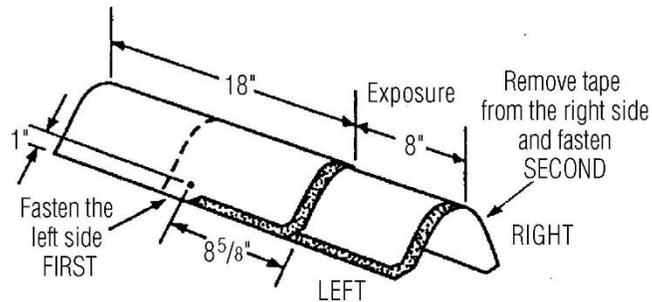


Figure 17-19: Installation of Shangle® Ridge shingles on hips and ridges.

**6.11 CARRIAGE HOUSE® AND GRAND MANOR®:**

**LOW AND STANDARD SLOPE**

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

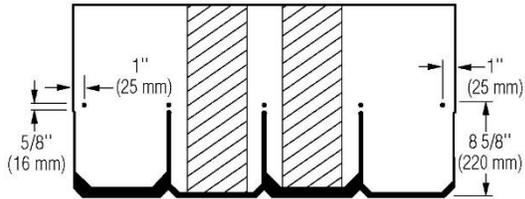


Figure 17-4: Use five nails for every full Grand Manor Shingle, Carriage House Shingle, or Centennial Slate.

**STEEP SLOPE**

Use **seven** nails and three spots of asphalt roofing cement for every full Grand Manor Shingle. Use **five** nails and three spots of asphalt roofing cement for every full Carriage House Shingle 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.

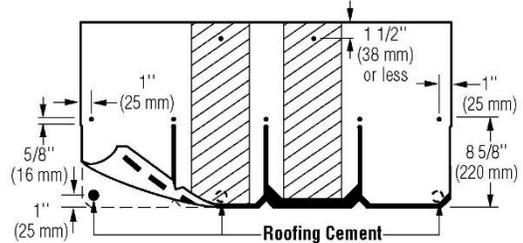
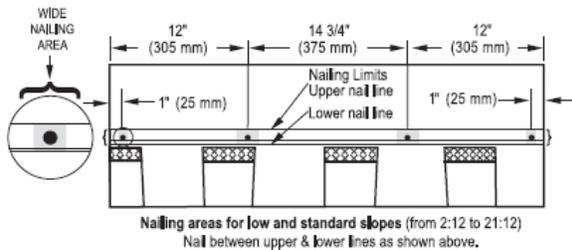


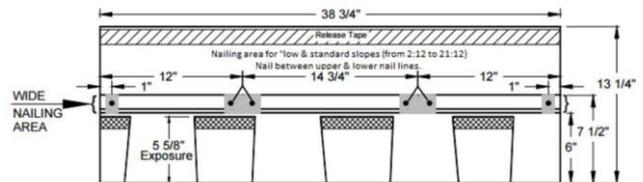
Figure 17-5: When installing Grand Manor Shingles on steep slopes, use seven nails and three spots of asphalt roofing cement.

**Hip & Ridge:** Refer to instructions for Shangle® Ridge.

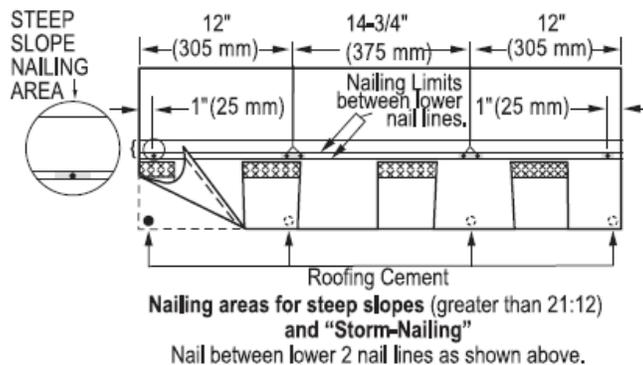
**6.12 LANDMARK®, LANDMARK® CLIMATEFLEX®, LANDMARK® PRO, LANDMARK® PRO ARCHITECT 80, LANDMARK PRO SOLARIS®, LANDMARK® PREMIUM, LANDMARK SOLARIS®, LANDMARK SOLARIS® IR, LANDMARK SOLARIS® GOLD/PLATINUM OR NORTHGATE® CLIMATEFLEX®:**



**Four (4) Nail Attachment (2:12 to 21:12)**



**Six (6) Nail Attachment (2:12 to 21:12)**



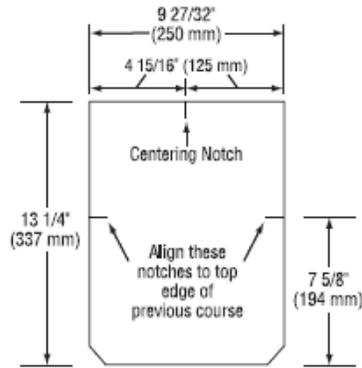
**Six (6) Nail Attachment with Roofing Cement (> 21:12)**

**Hip & Ridge:**

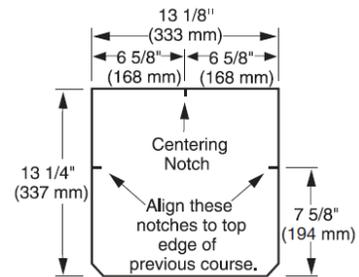
**Option 1:** Refer to instructions for Cedar Crest® or Cedar Crest® IR.

**Option 2:** Shadow Ridge® ClimateFlex®, Shadow Ridge® ClimateFlex®, 4pc or Shadow Ridge®

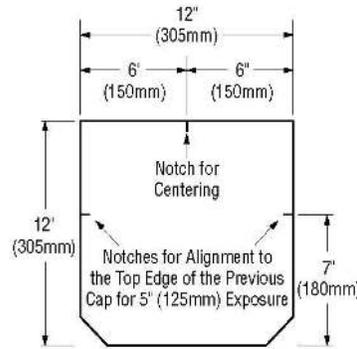
*Note: The use of BASF “Sonolastic® NP1™” adhesive or Henkel “PL® Polyurethane Roof & Flashing Sealant” in accordance with CertainTeed requirements is required for the ASTM D3161, Class F wind rating. (Use of sealant is optional for Shadow Ridge® produced in Oxford, NC.)*



**Shadow Ridge® ClimateFlex®, 4pc**

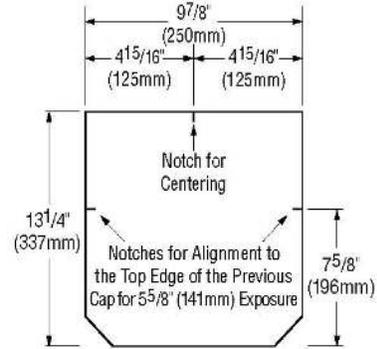


**Shadow Ridge® ClimateFlex®**



**English Dimension**

**Shadow Ridge®**



**Metric Dimension**

**Shadow Ridge®**

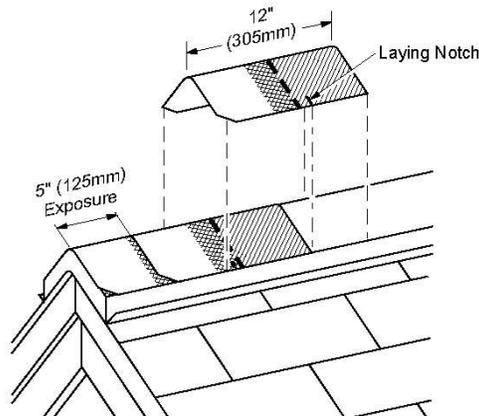


Figure 13-20: Use laying notches to center shingles on hips and ridges, and to locate the correct exposure.

**6.13 LANDMARK® TL:**

**LANDMARK TL**

**LANDMARK TL**

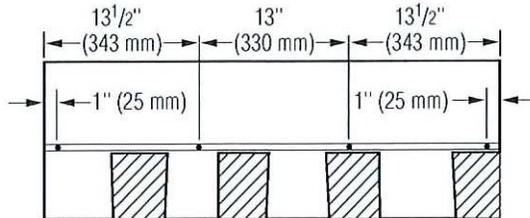


Figure 13-4: Use four nails for every full shingle.

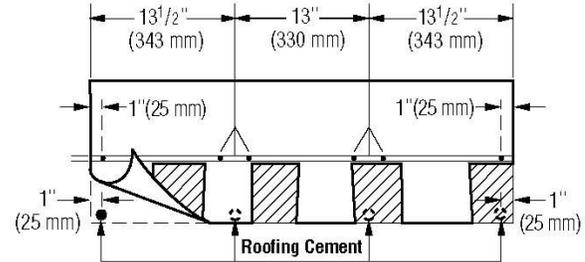


Figure 13-5: Use six nails and four spots of asphalt roofing cement on steep slopes.

**Hip & Ridge:** Refer to instructions for Cedar Crest®, Cedar Crest® IR, Shadow Ridge® ClimateFlex® or Shadow Ridge®.

**6.14 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.

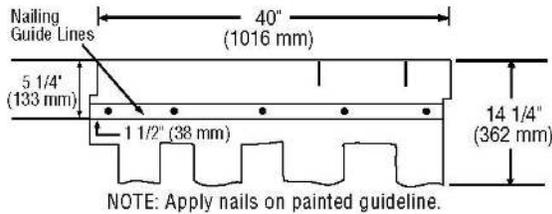


Figure 16-6: Fastening Presidential and Presidential TL Shake shingles on low and standard slopes.

**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.

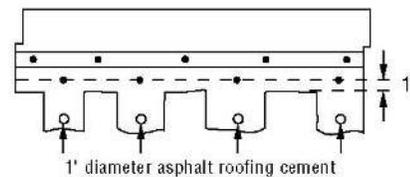


Figure 16-7: Fastening Presidential and Presidential T/L Shake shingles on steep slopes.

**Hip & Ridge:** Refer to instructions for Cedar Crest® or Cedar Crest® IR.

**6.15 HIGHLAND SLATE®:**

**LOW AND STANDARD SLOPE:**

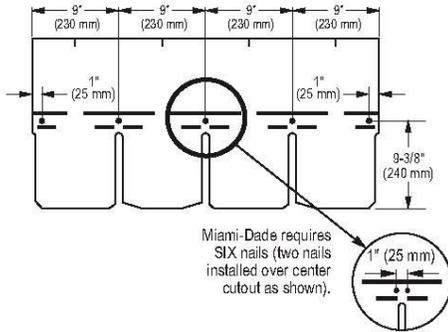


Figure 11-3: Use FIVE nails for every Highland Slate shingle.

**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.

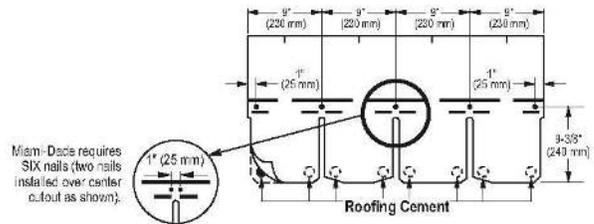


Figure 11-3A: Use FIVE nails and eight spots of asphalt roofing cement under each tab corner.

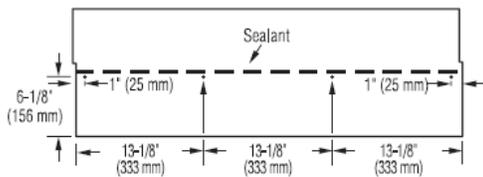
**\*CAUTION:** Excessive use of roofing cement can cause shingles to blister.

**Hip & Ridge:** Refer to instructions for Cedar Crest®, Cedar Crest® IR or Shangle Ridge®.

**6.16 PATRIOT:**

**LOW AND STANDARD SLOPE**

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

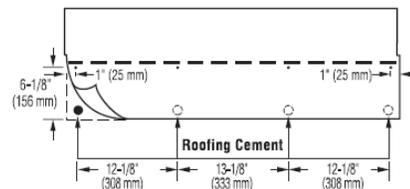


**Hip & Ridge:** Refer to instructions for Cedar Crest®, Cedar Crest® IR, Shadow Ridge® ClimateFlex®, Shadow Ridge® or Shangle Ridge®.

**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.



**7. BUILDING PERMIT REQUIREMENTS:**

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

**8. MANUFACTURING PLANTS:**

Contact the named QA entity for manufacturing facilities covered by F.A.C. Rule 61G20-3 QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

**9. QUALITY ASSURANCE ENTITY:**

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

- END OF EVALUATION REPORT -

FLORIDA DEPARTMENT OF  
**Business & Professional Regulation**

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**Product Approval**  
 USER: Public User

OFFICE OF THE  
 SECRETARY

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

FL # FL13192-R6  
 Application Type Revision  
 Code Version 2020  
 Application Status Approved

Comments  
 Archived

Product Manufacturer  
 Address/Phone/Email

James Hardie Building Products  
 10901 Elm Ave  
 Fontana, CA 92337  
 (909) 641-0498  
 rathisha.sabaratnam@jhresearchusa.com

Authorized Signature

Rathisha Sabaratnam  
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Category  
Subcategory

Panel Walls  
Sliding

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer  
 Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the  
Evaluation Report

Florida License

PE-81662

Quality Assurance Entity

Intertek Testing Services NA, Inc. - QA Entity

Quality Assurance Contract Expiration Date

12/31/2023

Validated By

John Southard, P.E.

Validation Checklist - Hardcopy Received

Certificate of Independence

[FL13192\\_R6\\_COI\\_2001-10\\_Letter\\_of\\_Independence.pdf](#)

Referenced Standard and Year (of Standard)

<u>Standard</u>	<u>Year</u>
ASTM C1186	2012
ASTM E330	2002

Equivalence of Product Standards  
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

12/14/2020

Date Validated

01/05/2021

Date Pending FBC Approval

01/06/2021

Date Approved

02/09/2021

**Summary of Products**

FL #	Model, Number or Name	Description
13192.1	CemPlank Lap Siding	fiber-cement lap siding  <b>Installation Instructions</b> <a href="#">FL13192 R6 II 2001-10.2.1 HardiePlank Analysis.pdf</a> <a href="#">FL13192 R6 II 2001-10.2.2 HardiePlank over WSP Analysis.pdf</a> <a href="#">FL13192 R6 II 2001-10.2.3 Plank Shingle over CMU Analysis.pdf</a> <a href="#">FL13192 R6 II 2001-14.3 NOA Hardie Plank-Panel-Soffit.pdf</a> <a href="#">FL13192 R6 II CemPlank-Install-Instr .pdf</a> Verified By: V. Andrew Tan 81662 Created by Independent Third Party: No <b>Evaluation Reports</b> <a href="#">FL13192 R6 AE 2001-10.2.1 HardiePlank Analysis.pdf</a> <a href="#">FL13192 R6 AE 2001-10.2.2 HardiePlank over WSP Analysis.pdf</a> <a href="#">FL13192 R6 AE 2001-10.2.3 Plank Shingle over CMU Analysis.pdf</a> <a href="#">FL13192 R6 AE 2001-14.3 NOA Hardie Plank-Panel-Soffit.pdf</a> Created by Independent Third Party: Yes
13192.2	HardiePlank Lap Siding	fiber-cement lap siding  <b>Installation Instructions</b> <a href="#">FL13192 R6 II 2001-10.2.1 HardiePlank Analysis.pdf</a> <a href="#">FL13192 R6 II 2001-10.2.2 HardiePlank over WSP Analysis.pdf</a> <a href="#">FL13192 R6 II 2001-10.2.3 Plank Shingle over CMU Analysis.pdf</a> <a href="#">FL13192 R6 II 2001-14.3 NOA Hardie Plank-Panel-Soffit.pdf</a> Verified By: V. Andrew Tan 81662 Created by Independent Third Party: No <b>Evaluation Reports</b> <a href="#">FL13192 R6 AE 2001-10.2.1 HardiePlank Analysis.pdf</a> <a href="#">FL13192 R6 AE 2001-10.2.2 HardiePlank over WSP Analysis.pdf</a> <a href="#">FL13192 R6 AE 2001-10.2.3 Plank Shingle over CMU Analysis.pdf</a> <a href="#">FL13192 R6 AE 2001-14.3 NOA Hardie Plank-Panel-Soffit.pdf</a> Created by Independent Third Party: No

**Limits of Use**  
**Approved for use in HVHZ:** Yes  
**Approved for use outside HVHZ:** Yes  
**Impact Resistant:** N/A  
**Design Pressure:** N/A  
**Other:** For use in HVHZ install in accordance with Miami-Dade County Florida NOA 20-0730.06; for use outside HVHZ install in accordance with manufacturer's installation instructions.

# Florida Product Approval

## HardiePlank® Lap Siding

- For use inside HVHZ:
  - HardiePlank Lap Siding fastener types, fastening schedule, and installation shall be in accordance with the Miami-Dade County Florida NOA 20-0730.06. Consult the HardiePlank product installation instructions on the follow pages for all other installation requirements.
- For use outside of HVHZ,
  - HardiePlank Lap Siding fastener types, fastening schedule, and installation shall be in accordance with CAE Engineering Reports No.:2001-10.2.1, 2001-10.2.2, 2001-10.2.3. Consult the HardiePlank product installation instructions on the follow pages for all other installation requirements.

# HardiePlank® Lap Siding

EFFECTIVE DECEMBER 2019



12/14/20



IMPORTANT: FAILURE TO FOLLOW JAMES HARDIE WRITTEN INSTALLATION INSTRUCTIONS IN COMPLIANCE WITH APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT BUILDING ENVELOPE PERFORMANCE AND MAY AFFECT WARRANTY COVERAGE. FAILURE TO COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT MAY RESULT IN PERSONAL INJURY. BEFORE INSTALLATION, CONFIRM YOU ARE USING THE CORRECT HARDIEZONE® PRODUCT INSTRUCTIONS BY VISITING [HARDIEZONE.COM](http://HARDIEZONE.COM) OR CALL 1-866-942-7343 (866-9-HARDIE)

## STORAGE & HANDLING:



Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product.

## GENERAL REQUIREMENTS:

- HardiePlank® lap siding can be installed over braced wood or steel studs, 20 gauge (33 mils) minimum to 16 gauge (54 mils) maximum, spaced a maximum of 24 in. o.c. or directly to minimum 7/16 in thick OSB sheathing. See General Fastening Requirements. Irregularities in framing and sheathing can mirror through the finished application. Correct irregularities before installing siding.
- Information on installing James Hardie products over non-naailable substrates (ex: gypsum, foam, etc.) can be located in JH Tech Bulletin 19 at [www.jameshardie.com](http://www.jameshardie.com)
- A water-resistant barrier is required in accordance with local building code requirements. The water-resistant barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap, which complies with building code requirements.
- When installing James Hardie products all clearance details in figs. 3-14 must be followed.
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6 in. in the first 10 ft..
- Do not use HardiePlank lap siding in Fascia or Trim applications.
- Do not install James Hardie products, such that they may remain in contact with standing water.
- HardiePlank lap siding may be installed on flat vertical wall applications only.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at [www.jameshardie.com](http://www.jameshardie.com).
- James Hardie Building Products provides installation/load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.

## INSTALLATION: JOINT TREATMENT

- One or more of the following joint treatment options are required by code (as referenced 2018 IRC R703.10.2)
- A. Joint Flashing (James Hardie recommended)
  - B. Caulking (Caulking is not recommended)
  - for ColorPlus for aesthetic reasons as the Caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products.)
  - C. "H" joint cover
- Note: Field painting over caulking may produce a sheen difference when compared to the field painted PrimePlus. Refer to Caulking section in these instructions.

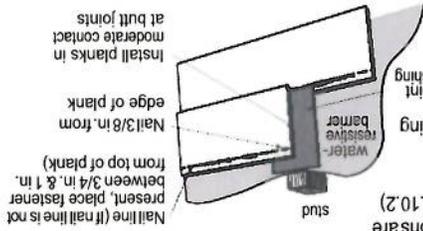


Figure 2

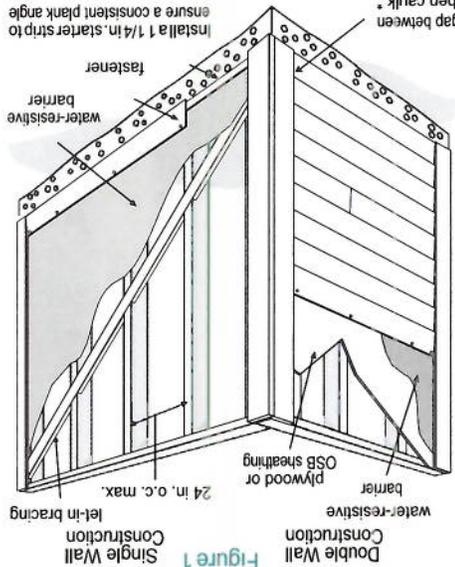


Figure 1

For additional information on HardieWrap® Weather Barrier, consult James Hardie at 1-866-4Hardie or [www.hardiewrap.com](http://www.hardiewrap.com)

SELECT CEDAR MILL® SMOOTH | BEADED CEDAR MILL® BEADED SMOOTH | CUSTOM COLONIAL SMOOTH | CUSTOM COLONIAL™ ROUGHSAW

HS1119 P1/4 12/19

Visit [jameshardiepros.com](http://jameshardiepros.com) for the most recent version.

\*Also see General Fastening Requirements, and when considering alternative fastening options refer to James Hardie's Technical Bulletin USTB-5 - Fastening Tips for HardiePlank Lap Siding.

- FACE NAILING**
- Nails - Wood Framing
    - Siding nail (0.09 in. shank x 0.221 in. HD x 2 in. long)
    - 6d (0.113 in. shank x 0.267 in. HD x 2 in. long)
  - Screws - Steel Framing
    - Ribbed Bugle-head or equivalent (No. 8-18 x 1-5/8 in. long x 0.323 in. HD) Screws must penetrate 3 threads into metal framing.
  - Nails - Steel Framing
    - ET & F pin or equivalent (0.10 in. shank x 0.25 in. HD x 1-1/2 in. long)
    - Nails must penetrate minimum 1/4 in. into metal framing.
  - OSB minimum 7/16 in.
    - Siding nail (0.09 in. shank x 0.221 in. HD x 1-1/2 in. long)

- BLIND NAILING**
- Nails - Wood Framing
    - Siding nail (0.09 in. shank x 0.221 in. HD x 2 in. long)
    - 1 ga. roofing nail (0.121 in. shank x 0.371 in. HD x 1.25 in. long)
  - Screws - Steel Framing
    - Ribbed Wafer-head or equivalent (No. 8 x 1 1/4 in. long x 0.375 in. HD) Screws must penetrate 3 threads into metal framing.
  - Nails - Steel Framing
    - ET & F PanelFast® nails or equivalent (0.10 in. shank x 0.313 in. HD x 1-1/2 in. long)
    - Nails must penetrate minimum 1/4 in. into metal framing.
  - OSB minimum 7/16 in.
    - Siding nail (0.09 in. shank x 0.215 in. HD x 1-1/2 in. long)
    - Ribbed Wafer-head or equivalent (No. 8 x 1 5/8 in. long x 0.375 in. HD).

Blind Nailing is the preferred method of installation for HardiePlank® lap siding products. Face nailing should only be used where required by code for high wind areas and must not be used in conjunction with Blind nailing (Please see JH Tech bulletin 17 for exemption when doing a repair).

Refer to the applicable ESR report online to determine which fastener meets your wind load design criteria.

**FASTER REQUIREMENTS\***

**CLEARANCE AND FLASHING REQUIREMENTS**

- Figure 3: Roof to Wall
- Figure 4: Horizontal Flashing
- Figure 5: Kickout Flashing
- Figure 6: Slabs, Path, Steps to Siding
- Figure 7: Deck to Wall
- Figure 8: Ground to Siding
- Figure 9: Gutter to Siding
- Figure 10: Sheltered Areas
- Figure 11: Mortar/Masonry
- Figure 12: Drip Edge
- Figure 13: Block Penetration
- Figure 14: Valley/Shingle Extension





**FASTENER REQUIREMENTS continued**

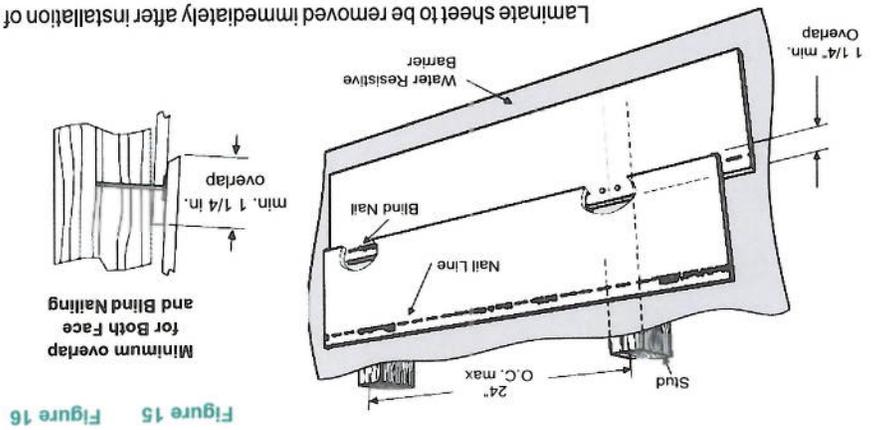


Figure 15 and Figure 16

Pin-backed corners may be done for aesthetic purposes only. Finish nails are recommended for pin-backs. Headed siding nails are allowed. Place pin-backs no closer than 1 in. from plank ends and 3/4 in. from plank edge into min. 3/8 in. wood structural panel. Pin-backs are not a substitute for blind or face nailing.

**GENERAL FASTENING REQUIREMENTS**

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing James Hardie® products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach Hardie Trim Tabs to preservative-treated wood shall be of hot-dipped zinc-coated galvanized steel or stainless steel and in accordance to 2018 IRC R317.3 or 2018 IBC 2304.10.5.

- Consult applicable product evaluation or listing for correct fasteners type and placement to achieve specified design wind loads.
- NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult James Hardie Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space).
- NOTE: Whenever a structural member is present, HardiePlank should be fastened with even spacing to the structural member. The tabs allowing direct to OSB or plywood should only be used when traditional framing is not available.

**CUT EDGE TREATMENT**

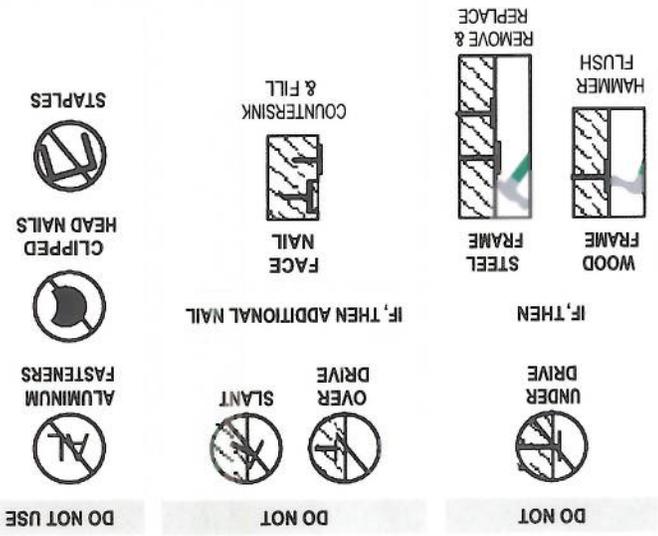
Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up ColorPlus products.

**CAULKING**

For best results use an Elastomeric Joint Sealant complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions. Note: some caulking manufacturers do not allow "tooling".

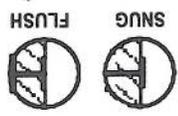
**PAINTING**

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® products. Factory-printed James Hardie products must be painted within 180 days of installation. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.



**PNEUMATIC FASTENING**

James Hardie products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).





COLORPLUS® TECHNOLOGY TOUCH-UP & LAMINATE

- Care should be taken when handling James Hardie® ColorPlus® products. During installation use a wet soft cloth or soft brush to gently wipe off any residue or construction dust left on the product, then rinse with a garden hose.
  - Touch up nicks, scrapes and nail heads using the ColorPlus® Technology touch-up applicator. Touch-up should be used sparingly.
  - If large areas require touch-up, replace the damaged area with new HardiePlank® lap siding with ColorPlus® Technology.
  - Laminate sheet must be removed immediately after installation of each course.
  - Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your ColorPlus® product dealer.
  - Treat all other non-factory cut edges using the ColorPlus Technology edge coat, available from your ColorPlus product dealer.
- Note: James Hardie does not warrant the usage of third party touch-up or paints used as touch-up on James Hardie ColorPlus products.
- Problems with appearance or performance arising from use of third party touch-up paints or paints used as touch-up that are not James Hardie touch-up will not be covered under the James Hardie ColorPlus Limited Finish Warranty.

PAINTING JAMES HARDIE® SIDING AND TRIM PRODUCTS WITH COLORPLUS® TECHNOLOGY

When repainting ColorPlus products, James Hardie recommends the following regarding surface preparation and topcoat application:

- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature
- DO NOT caulk nail heads when using ColorPlus products, refer to the ColorPlus touch-up section

COVERAGE CHART/ESTIMATING GUIDE

Number of 12 ft. planks, does not include waste

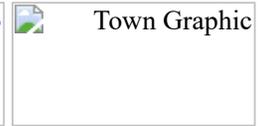
COVER AGE AREA LESS OPENINGS SQ (1 SQ = 100 sq.ft.)	HARDIEPLANK® LAP SIDING WIDTH											
	12	11	10	9	8	7	6	5	4	3	2	1
5 1/4	25	250	275	280	283	286	288	290	292	294	296	298
6 1/4	20	200	220	225	228	230	232	234	236	238	240	242
7 1/4	17	167	183	188	192	196	199	202	205	208	211	214
8	15	150	167	172	176	180	184	188	192	196	200	204
9 1/4	13	130	148	153	157	161	165	169	173	177	181	185
10	11	110	128	133	137	141	145	149	153	157	161	165
11	10	100	118	123	127	131	135	139	143	147	151	155
12	9	90	108	113	117	121	125	129	133	137	141	145
13	8	80	98	103	107	111	115	119	123	127	131	135
14	7	70	88	93	97	101	105	109	113	117	121	125
15	6	60	78	83	87	91	95	99	103	107	111	115
16	5	50	68	73	77	81	85	89	93	97	101	105
17	4	40	58	63	67	71	75	79	83	87	91	95
18	3	30	48	53	57	61	65	69	73	77	81	85
19	2	20	38	43	47	51	55	59	63	67	71	75
20	1	17	26	31	35	39	43	47	51	55	59	63
21	1	17	26	31	35	39	43	47	51	55	59	63
22	1	17	26	31	35	39	43	47	51	55	59	63
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97	1	17	26	31	35	39	43	47	51	55	59	63
98	1	17	26	31	35	39	43	47	51	55	59	63
99	1	17	26	31	35	39	43	47	51	55	59	63
100	1	17	26	31	35	39	43	47	51	55	59	63

This coverage chart is meant as a guide. Actual usage is subject to variables such as building design. James Hardie does not assume responsibility for over or under ordering of product.

DANGER: May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product. Refer to the current product Safety Data Sheet before use. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, machining, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust you must (1) comply with the OSHA standard for silica dust and/or other applicable law, (2) follow James Hardie cutting instructions to reduce or limit the release of dust, (3) wear others in the area to avoid breathing the dust, (4) when using mechanical saw or high speed cutting tools, work outdoors and use dust collection equipment, and (5) if no other dust controls are available, wear a dust mask or respirator that meets NIOSH requirements (e.g. N-95 dust mask). During clean-up, use a well maintained vacuum and filter appropriate for capturing fine (respirable) dust or use wet clean-up methods - never dry sweep.

WARNING: This product can expose you to chemicals including respirable crystalline silica, which is known to the State of California to cause cancer. For more information go to [P65Warnings.ca.gov](http://P65Warnings.ca.gov).

RECOMMENDATION: In accordance with ICC-ES Evaluation Report ESR-2290, HardiePlank® lap siding is recognized as a suitable alternative to that specified in the 2006, 2009, 2012 & 2015 International Residential Code for One and Two-Family Dwellings, and the 2006, 2009, 2012 & 2015 International Building Code. HardiePlank lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida Product Approval FL#13192, Miami-Dade County Florida NOA No. 17-0406.06, U.S. Dept. of HUD Materials Release 1263f, Texas Department of Insurance Product Evaluation EC-23, City of New York MFA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.



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 **Application Detail**

FL #	FL14634-R5
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Ply Gem Windows
Address/Phone/Email	433 N. Main St. Rocky Mount, VA 24151 (614) 532-3596 luanne.harris@cornerstone-bb.com
Authorized Signature	Luanne Harris luanne.harris@cornerstone-bb.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Exterior Doors
Subcategory	Sliding Exterior Door Assemblies
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Hermes F. Norero, P.E.
Florida License	PE-73778
Quality Assurance Entity	National Accreditation and Management Institute
Quality Assurance Contract Expiration Date	12/31/2022
Validated By	Locke Bowden P.E. <input type="checkbox"/> Validation Checklist - Hardcopy Received

Certificate of Independence

[FL14634\\_R5\\_COI\\_Ply\\_Gem\\_COI\\_SS\\_2017-10-09.pdf](#)

Referenced Standard and Year (of Standard)	<b>Standard</b>	<b>Year</b>
	AAMA/NWWDA 101/I.S.2	2011

Equivalence of Product Standards  
Certified By

Sections from the Code

Product Approval Method	Method 1 Option D
-------------------------	-------------------

Date Submitted	10/12/2020
Date Validated	10/13/2020
Date Pending FBC Approval	10/23/2020
Date Approved	12/15/2020

**Summary of Products**

FL #	Model, Number or Name	Description
14634.1	Builder Series 4780	Sliding Glass Door (XX)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> Without sill riser +25/-50 PSF and With sill riser +50/-50 PSF		<b>Installation Instructions</b> <a href="#">FL14634_R5_IL_PGW063_SS_2020-10-08.pdf</a> Verified By: Hermes F. Norero, P.E. Florida P.E. #73778 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL14634_R5_AE_PER7107_SS_2020-10-08.pdf</a> Created by Independent Third Party: Yes
14634.2	Builder Series 4780	Sliding Glass Door
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +30/-30 <b>Other:</b> Non-reinforced. See installation detail for available sizes and configurations.		<b>Installation Instructions</b> <a href="#">FL14634_R5_IL_PGW064_SS_2020-10-08.pdf</a> Verified By: Hermes F. Norero, P.E. Florida P.E. #73778 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL14634_R5_AE_PER7108_SS_2020-10-08.pdf</a> Created by Independent Third Party: Yes
14634.3	Builder Series 4780	Sliding Glass Door
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> +35/-35 <b>Other:</b> Reinforced. See installation detail for available sizes and configurations.		<b>Installation Instructions</b> <a href="#">FL14634_R5_IL_PGW065_SS_2020-10-08.pdf</a> Verified By: Hermes F. Norero, P.E. Florida P.E. #73778 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL14634_R5_AE_PER7109_SS_2020-10-08.pdf</a> Created by Independent Third Party: Yes

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Product Approval Accepts:



 [SecurityMetrics Credit Card Safe](#)

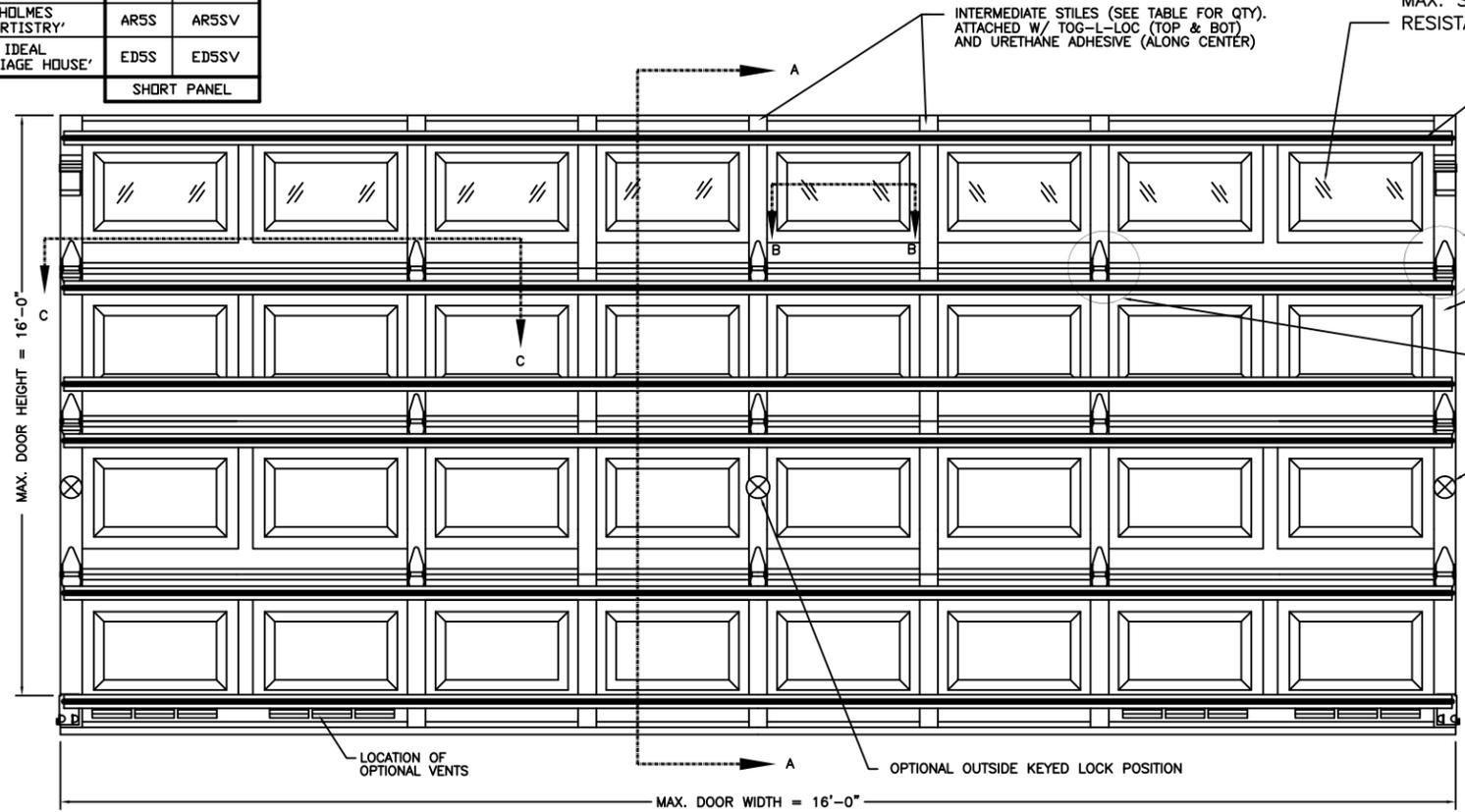
'CLASSIC' RAISED PANEL EMBOSS DOORS				
MODELS	24 GA	24 GA INS	25 GA	25 GA INS
CLOPAY	84A, 94	--	73, 75	1500, 190
IDEAL	4RST, 4F*	4RSF	6RST	6RSF
HOLMES	48, 48B	--	42, 42B	55, 55S

DOOR HEIGHT	# OF SECTIONS	# OF U-BARS	DOOR WIDTH	# OF INTERM. STILES
UP TO 7'0"	4	6	9'2" TO 9'10"	1
7'3" TO 8'9"	5	8	10'0" TO 11'10"	2
9'0" TO 10'6"	6	9	12'0" TO 13'10"	3
10'9" TO 12'3"	7	11	14'0" TO 15'10"	4
12'6" TO 14'0"	8	12	16'0"	5
14'3" TO 15'9"	9	14		
16'0"	10	15		

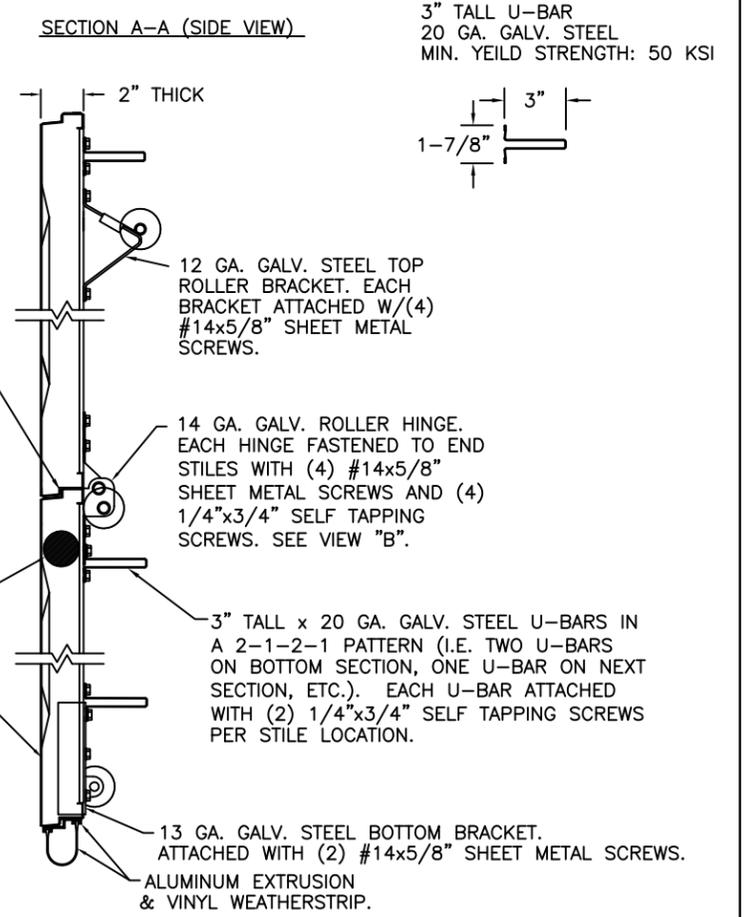
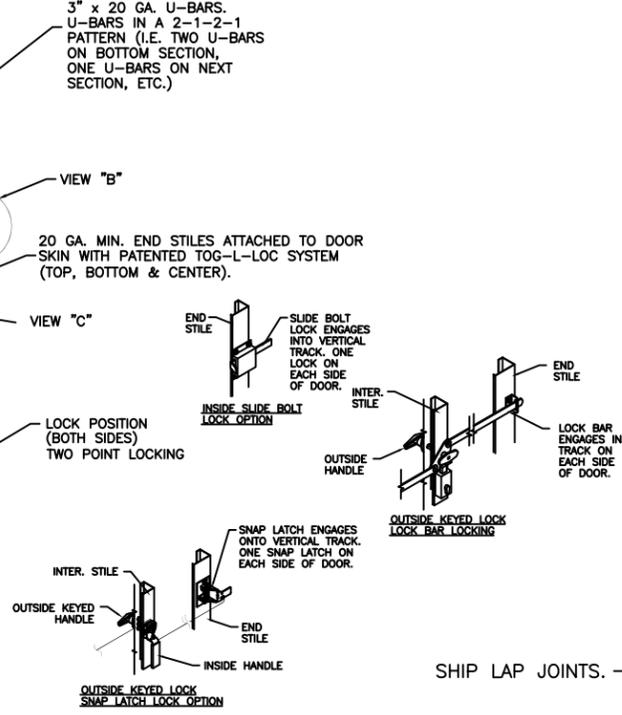
SHEET 1 OF 2

REV	DATE	DESCRIPTION
10	08/08/08	ADDED M/N 42B, 48B, 55S
11	10/21/08	ADDED M/N 4F
12	8/2009	ADDED 'CARRIAGE HOUSE' EMBOSS DOORS.
13	8/2010	UPDATED MODEL TABLE.
14	1/2012	REVISED WIND SPEED TABLE FOR ASCE7-10.
15	4/2012	ADDED IMPACT RESISTANT OPTION.
16	11/9/20	UPDATED TITLE BLOCK AND REMOVED WIND CHART.

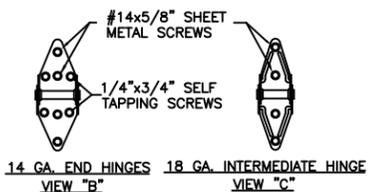
'CARRIAGE HOUSE' RAISED PANEL EMBOSS DOORS		
MODELS	25 GA	25 GA INS
CLOPAY 'GALLERY'	GD5S, GR5S	GD5SV, GR5SV
HOLMES 'ARTISTRY'	AR5S	AR5SV
IDEAL 'CARRIAGE HOUSE'	ED5S	ED5SV



OPTIONAL GLAZING MAY BE STANDARD OR IMPACT RESISTANT GLAZING. SEE SECTION B-B FOR DETAILS.  
 MAX. STANDARD SIZE IS 42-1/2"x16". IMPACT RESISTANT GLAZING IS 21-5/8"x14-1/8".



'CLASSIC' SHORT RAISED-PANEL SHOWN. 'CARRIAGE HOUSE' SHORT RAISED-PANEL IS ALSO APPROVED.



ORIGINAL DRAWINGS ARE SIGNED IN BLUE INK WITH A RAISED SEAL (EMBOSS).  
  
 DESIGN ENGINEER: MARK WESTERFIELD, P.E.  
 FLORIDA P.E. #48495,  
 NC P.E. #23832,  
 TEXAS P.E. #91513

SEE SHEET TWO FOR IMPACT RESISTANT CONSTRUCTION DETAIL "A" AND STANDARD CONSTRUCT DETAIL "B"; TRACK AND JAMB DETAILS.

	MANUFACTURING PRODUCT CODE: MPC: PAN-2F153	WINDLOAD RATING W4	MAX. DOOR SIZE: 16'0"W x 16'0"H
	DATE: 1/3/97	DESCRIPTION: CLASSIC AND CH RP STEEL PAN DOUBLE-CAR, 16'W +24/-24.5 PSF	
	DRAWN BY: JAC	DRAWING NUMBER: 101711	VER: IBC
	CHECKED BY: MWW		

'CLASSIC' RAISED PANEL EMBOSS DOORS				
MODELS	24 GA	24 GA INS	25 GA	25 GA INS
CLOPAY	84A, 94	--	73, 75	1500, 190
IDEAL	4RST, 4F*	4RSF	6RST	6RSF
HOLMES	48, 48B	--	42, 42B	55, 55S
SHORT PANEL				
* - MODEL 4F IS FLUSH				

DOOR HEIGHT	# OF SECTIONS	# OF U-BARS
UP TO 7'0"	4	6
7'3" TO 8'9"	5	8
9'0" TO 10'6"	6	9
10'9" TO 12'3"	7	11
12'6" TO 14'0"	8	12
14'3" TO 15'9"	9	14
16'0"	10	15
MAX SECTION HEIGHT: 21'		

'CARRIAGE HOUSE' RAISED PANEL EMBOSS DOORS		
MODELS	25 GA	25 GA INS
CLOPAY 'GALLERY'	GD5S, GR5S	GD5SV, GR5SV
HOLMES 'ARTISTRY'	AR5S	AR5SV
IDEAL 'CARRIAGE HOUSE'	ED5S	ED5SV
SHORT PANEL		

SHEET 2 OF 2

REV	DATE	DESCRIPTION
16	--	SEE REVISION HISTORY ON SHEET ONE.

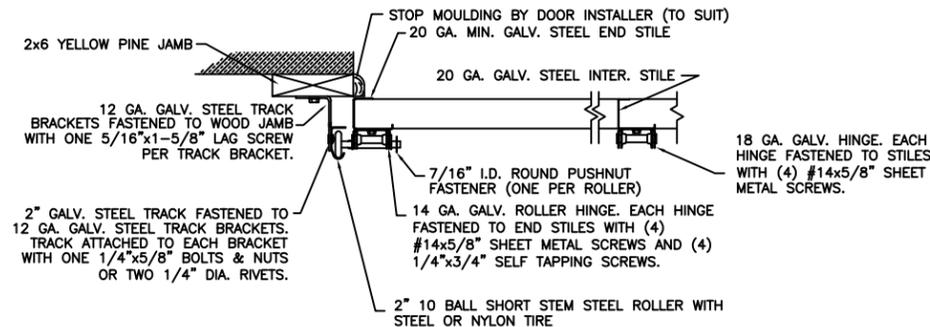
**VERTICAL JAMB ATTACHMENT (WOOD FRAME BUILDINGS):**  
 3/8"x3" LAG SCREWS ON 24" CENTERS. 1-1/8" O.D. WASHER REQUIRED. LAG SCREWS MAY BE COUNTERSUNK (BUT NOT REQUIRED) TO PROVIDE A FLUSH MOUNTING SURFACE. HORIZONTAL JAMBS DO NOT TRANSFER LOAD.

**VERTICAL JAMB ATTACHMENT (C-90 BLOCK OR 2,000 PSI MIN. CONCRETE COLUMN):**  
 3/8"x3" SLEEVE ANCHOR BOLTS ON 20" CENTERS (2,000 PSI MIN. CONCRETE). WASHERS INCLUDED WITH SLEEVE ANCHORS.

OR  
 1/4"x3" TAPCON SCREWS ON 17" CENTERS (2,000 PSI MIN. CONCRETE) OR 9" CENTERS (C-90 BLOCK), 1" O.D. WASHERS REQUIRED WITH TAPCONS. ANCHORS MAY BE COUNTERSUNK (BUT NOT REQUIRED) TO PROVIDE A FLUSH MOUNTING SURFACE. HORIZONTAL JAMBS DO NOT TRANSFER LOAD.

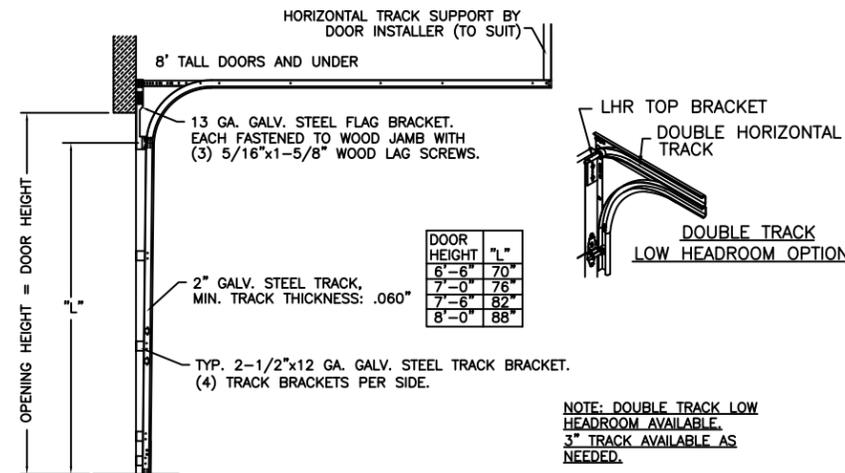
**OTHER JAMB CONFIGURATIONS:** REFER TO DASMA TDS-161. A LICENSED DESIGN PROFESSIONAL MAY ALSO BE EMPLOYED TO APPROVE ALTERNATE FASTENERS AND/OR JAMB CONFIGURATIONS.

**PREPARATION OF JAMBS BY OTHERS.**

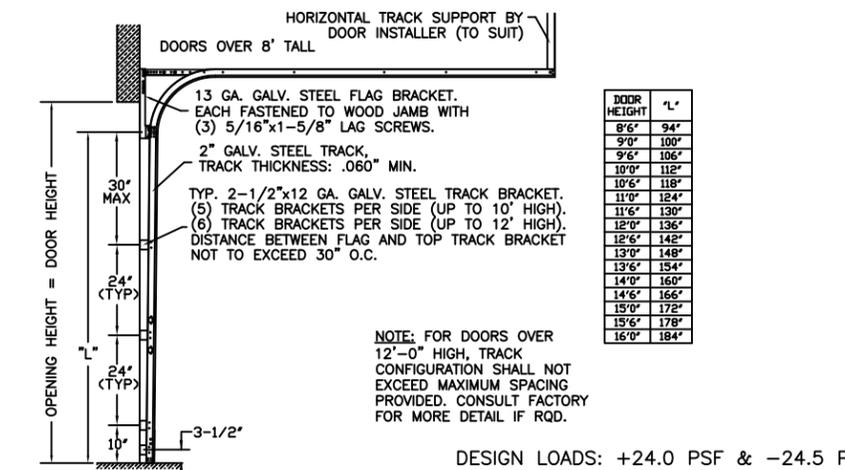


**NOTE:** THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THE DRAWING.

**NOTE:** TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.



**NOTE:** DOUBLE TRACK LOW HEADROOM AVAILABLE. 3" TRACK AVAILABLE AS NEEDED.

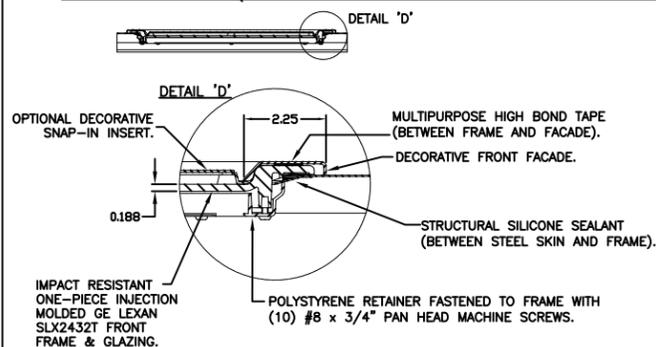


**NOTE:** FOR DOORS OVER 12'-0" HIGH, TRACK CONFIGURATION SHALL NOT EXCEED MAXIMUM SPACING PROVIDED. CONSULT FACTORY FOR MORE DETAIL IF RQD.

DESIGN LOADS: +24.0 PSF & -24.5 PSF  
 TEST LOADS: +36.0 PSF & -37.0 PSF

**IMPACT RESISTANT ASSEMBLY DETAILS DRAWING 101711-A**

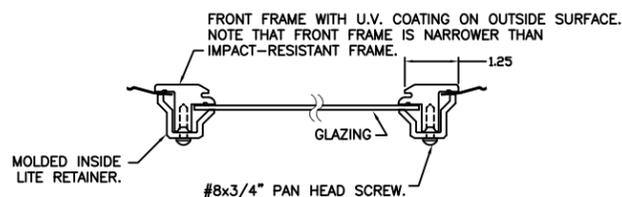
**SECTION B-B (IMPACT-RESISTANT GLAZING OPTION)**



**IMPACT-RESISTANT CONSTRUCTION:**  
 SOLID DOORS (NO GLAZING) OR DOORS WITH OPTIONAL IMPACT-RESISTANT GLAZING ARE IMPACT-RESISTANT. OPTIONAL INJECTION-MOLDED POLYCARBONATE FRONT FRAME AND GLAZING IS GE LEXAN SLX2432T, AN APPROVED CC2 PLASTIC IN ACCORDANCE WITH IBC/FBC 2606. THE ENTIRE DOOR ASSEMBLY INSTALLED IN COMPLIANCE WITH THIS SECTION MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE AND INTERNATIONAL BUILDING CODE AND MEETS THE IMPACT-RESISTANT REQUIREMENTS (REF. CHAPTER 16 FBC/IBC).

**STANDARD ASSEMBLY DETAILS DRAWING 101711-B**

**SECTION B-B (NON-IMPACT RESISTANT GLAZING OPTION)**



**STANDARD ASSEMBLY CONSTRUCTION:**  
 OPTIONAL SSB, DSB OR 1/8" ACRYLIC LITES AVAILABLE. OPTIONAL ACRYLIC GLAZING IS PLASKOLITE OPTIX OR LUCITE CP APPROVED CC2 PLASTIC IN ACCORDANCE WITH IBC/FBC 2606. THE ENTIRE DOOR ASSEMBLY INSTALLED IN COMPLIANCE WITH THIS SECTION MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 FBC/IBC).

ORIGINAL DRAWINGS ARE SIGNED IN BLUE INK WITH A RAISED SEAL (EMBOSS).

DESIGN ENGINEER: MARK WESTERFIELD, P.E.  
 FLORIDA P.E. #48495,  
 NC P.E. #23832,  
 TEXAS P.E. #91513

**Clopay CORPORATION**

8585 DUKE BLVD.  
 MASON, OH 45040  
 (513) 770-4800

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MANUFACTURING PRODUCT CODE: MPC: PAN-2F153	WINDLOAD RATING W4	MAX. DOOR SIZE: 16'0"W x 16'0"H
DATE: 1/3/97	DESCRIPTION: CLASSIC AND CH RP STEEL PAN DOUBLE-CAR, 16'W +24/-24.5 PSF	
DRAWN BY: JAC	DRAWING NUMBER: 101711	VER: IBC
CHECKED BY: MWW		



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**FL #** FL16103-R15  
**Application Type** Revision  
**Code Version** 2020  
**Application Status** Approved

\*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

**Comments**  
**Archived**

**Product Manufacturer** Ply Gem Windows  
**Address/Phone/Email** 433 N. Main St.  
 Rocky Mount, VA 24151  
 (614) 532-3596  
 luanne.harris@cornerstone-bb.com

**Authorized Signature** Luanne Harris  
 luanne.harris@cornerstone-bb.com

**Technical Representative**  
**Address/Phone/Email**

**Quality Assurance Representative**  
**Address/Phone/Email**

**Category** Windows  
**Subcategory** Single Hung

**Compliance Method** Certification Mark or Listing

**Certification Agency** National Accreditation & Management Institute  
**Validated By** National Accreditation & Management Institute

Referenced Standard and Year (of Standard)	<b>Standard</b>	<b>Year</b>
	AAMA 506	2016
	AAMA/WDMA/CSA 101/I.S.2/A440	2008

AAMA/WDMA/CSA 101/I.S.2/A440	2011
ASTM E1886	2013
ASTM E1996	2012

Equivalence of Product Standards  
 Certified By

Product Approval Method                      Method 1 Option A

Date Submitted                                      12/02/2020

Date Validated                                      12/03/2020

Date Pending FBC Approval

Date Approved                                      12/12/2020

**Summary of Products**

FL #	Model, Number or Name	Description
16103.1	Ply Gem 1500	Single Hung, Non-Impact (As Tested-2X & Alt. Substrates-1X)
<p><b>Limits of Use</b>                      Approved for use in HVHZ: No                      Approved for use outside HVHZ: Yes                      Impact Resistant: No                      Design Pressure: N/A                      Other: Refer to installation detail for sizes, configurations and ratings.</p>		<p><b>Certification Agency Certificate</b>  <a href="#">FL16103_R15_C_CAC_NI011350.01-R5.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.02-R5.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.04-R5.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.05-R5.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.06-R5.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.07-R4.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.08-R7.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.11-R5.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.16-R5.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.20-R5.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.21-R5.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.22-R6.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.25-R5.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI013370.02-R2.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI013370.03-R2.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI013370.04-R3.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI013370.05-R3.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI013370.06-R3.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI013800.01-R3.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI013800.07-R3.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI013800.08-R3.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI013800-R3.pdf</a>  <b>Quality Assurance Contract Expiration Date</b>                      09/30/2022  <b>Installation Instructions</b>  <a href="#">FL16103_R15_II_PGW181FL-G.pdf</a>                      Verified By: National Accreditation &amp; Management Institute                      Created by Independent Third Party:  <b>Evaluation Reports</b>  <a href="#">FL16103_R15_AE_EvalReport-PGW181FL-G.pdf</a>                      Created by Independent Third Party: Yes</p>

16103.2	Ply Gem 1500	Single Hung, Impact (As tested & Alt. Substrates)
<p><b>Limits of Use</b>  <b>Approved for use in HVHZ:</b> No  <b>Approved for use outside HVHZ:</b> Yes  <b>Impact Resistant:</b> Yes  <b>Design Pressure:</b> N/A  <b>Other:</b> Refer to installation detail for sizes, configurations and ratings.</p>		<p><b>Certification Agency Certificate</b>  <a href="#">FL16103_R15_C_CAC_NI011350.12-R4.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.29-R1.pdf</a>  <a href="#">FL16103_R15_C_CAC_NI011350.30-R1.pdf</a>  <b>Quality Assurance Contract Expiration Date</b>                      11/30/2022  <b>Installation Instructions</b>  <a href="#">FL16103_R15_II_PGW183FL-F.pdf</a>                      Verified By: National Accreditation &amp; Management Institute                      Created by Independent Third Party:  <b>Evaluation Reports</b>  <a href="#">FL16103_R15_AE_EvalReport-PGW183FL-F.pdf</a>                      Created by Independent Third Party: Yes</p>

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FL # FL16104-R7  
 Application Type Revision  
 Code Version 2020  
 Application Status Approved

\*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments  
 Archived

Product Manufacturer Ply Gem Windows  
 Address/Phone/Email 433 N. Main St.  
 Rocky Mount, VA 24151  
 (614) 532-3596  
 luanne.harris@cornerstone-bb.com

Authorized Signature Luanne Harris  
 luanne.harris@cornerstone-bb.com

Technical Representative  
 Address/Phone/Email

Quality Assurance Representative  
 Address/Phone/Email

Category Windows  
 Subcategory Fixed

Compliance Method Certification Mark or Listing

Certification Agency National Accreditation & Management Institute  
 Validated By National Accreditation & Management Institute

Referenced Standard and Year (of Standard)	Standard	Year
	AAMA 506	2016
	AAMA/WDMA/CSA 101/I.S.2/A440	2017

AAMA/WDMA/CSA 101/I.S.2/A440	2011
ASTM E1886	2013
ASTM E1996	2014

Equivalence of Product Standards  
Certified By

Florida Licensed Professional Engineer or Architect  
[FL16104\\_R7\\_Equiv\\_FL16104\\_506\\_Equivalency.pdf](#)

Product Approval Method Method 1 Option A

Date Submitted 12/23/2020  
Date Validated 12/23/2020  
Date Pending FBC Approval  
Date Approved 01/01/2021

### Summary of Products

FL #	Model, Number or Name	Description
16104.1	Ply Gem 1500	Fixed Window, Non-Impact
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> Refer to installation detail for sizes, configurations and ratings.		<b>Certification Agency Certificate</b> <a href="#">FL16104_R7_C_CAC_NI011337.02-R2.pdf</a> <a href="#">FL16104_R7_C_CAC_NI011337.03-R1.pdf</a> <a href="#">FL16104_R7_C_CAC_NI011337-R1.pdf</a> <a href="#">FL16104_R7_C_CAC_NI014492.02.pdf</a> <a href="#">FL16104_R7_C_CAC_NI014492.03.pdf</a> <a href="#">FL16104_R7_C_CAC_NI014492.04.pdf</a> <a href="#">FL16104_R7_C_CAC_NI014492.pdf</a> <b>Quality Assurance Contract Expiration Date</b> 04/30/2022 <b>Installation Instructions</b> <a href="#">FL16104_R7_II_PGW177-C.pdf</a> Verified By: National Accreditation & Management Institute Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL16104_R7_AE_EvalReport-PGW177-C.pdf</a> Created by Independent Third Party: Yes
16104.2	Ply Gem 1500	Fixed Window, Impact
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> N/A <b>Other:</b> Refer to installation detail for sizes, configurations and ratings.		<b>Certification Agency Certificate</b> <a href="#">FL16104_R7_C_CAC_NI011337.04-R2.pdf</a> <a href="#">FL16104_R7_C_CAC_NI014144.pdf</a> <b>Quality Assurance Contract Expiration Date</b> 06/30/2022 <b>Installation Instructions</b> <a href="#">FL16104_R7_II_PGW179FL-D.pdf</a> Verified By: National Accreditation & Management Institute Created by Independent Third Party: <b>Evaluation Reports</b> <a href="#">FL16104_R7_AE_EvalReport-PGW179FL-D.pdf</a> Created by Independent Third Party: Yes

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 **Application Detail**

FL #	FL20461-R7
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Therma-Tru Corporation
Address/Phone/Email	1750 Indian Wood Circle Maumee, OH 43537 (800) 843-7628 sjasperson@thermatru.com
Authorized Signature	Vivian Wright rickw@rwblgdgconsultants.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Lyndon F. Schmidt, P.E.
Florida License	PE-43409
Quality Assurance Entity	National Accreditation and Management Institute
Quality Assurance Contract Expiration Date	12/31/2022
Validated By	Ryan J. King, P.E.
	<input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received



	Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)	<a href="#">FL20461_R7_AE_(g) Eval 20461.2.pdf</a> Created by Independent Third Party: Yes
20461.3	c. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Non-Impact" Opaque Fiberglass Composite Edge Double Door with or without Sidelites (Inswing/Outswing; XX or OXXO configurations)
	<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.3 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)	<b>Installation Instructions</b> <a href="#">FL20461_R7_IL_(g) Inst 20461.3.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g) Eval 20461.3.pdf</a> Created by Independent Third Party: Yes
20461.4	d. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 7'0 "Non-Impact" Opaque Composite Edge Fiberglass Single Door (Inswing/Outswing; X configuration)
	<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.4 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)	<b>Installation Instructions</b> <a href="#">FL20461_R7_IL_(g) Inst 20461.4.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g) Eval 20461.4.pdf</a> Created by Independent Third Party: Yes
20461.5	e. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 7'0 "Non-Impact" Opaque Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
	<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.5 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)	<b>Installation Instructions</b> <a href="#">FL20461_R7_IL_(g) Inst 20461.5.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g) Eval 20461.5.pdf</a> Created by Independent Third Party: Yes
20461.6	f. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Non-Impact" Opaque Composite Edge Fiberglass Single Door (Inswing/Outswing;

		X configuration)
	<p><b>Limits of Use</b>  <b>Approved for use in HVHZ:</b> No  <b>Approved for use outside HVHZ:</b> Yes  <b>Impact Resistant:</b> No  <b>Design Pressure:</b> N/A  <b>Other:</b> See INST 20461.6 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)</p>	<p><b>Installation Instructions</b>  <a href="#">FL20461_R7_IL_(g)_Inst 20461.6.pdf</a>  Verified By: Lyndon F. Schmidt, P.E. 43409  Created by Independent Third Party: Yes  <b>Evaluation Reports</b>  <a href="#">FL20461_R7_AE_(g)_Eval 20461.6.pdf</a>  Created by Independent Third Party: Yes</p>
20461.7	g. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Non-Impact" Opaque Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
	<p><b>Limits of Use</b>  <b>Approved for use in HVHZ:</b> No  <b>Approved for use outside HVHZ:</b> Yes  <b>Impact Resistant:</b> No  <b>Design Pressure:</b> N/A  <b>Other:</b> See INST 20461.7 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)</p>	<p><b>Installation Instructions</b>  <a href="#">FL20461_R7_IL_(g)_Inst 20461.7.pdf</a>  Verified By: Lyndon F. Schmidt, P.E. 43409  Created by Independent Third Party: Yes  <b>Evaluation Reports</b>  <a href="#">FL20461_R7_AE_(g)_Eval 20461.7.pdf</a>  Created by Independent Third Party: Yes</p>
20461.8	h. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Non-Impact" Opaque Composite Edge Fiberglass Double Door with or without Sidelites (Inswing/Outswing; XX or OXXO configurations)
	<p><b>Limits of Use</b>  <b>Approved for use in HVHZ:</b> No  <b>Approved for use outside HVHZ:</b> Yes  <b>Impact Resistant:</b> No  <b>Design Pressure:</b> N/A  <b>Other:</b> See INST 20461.8 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)</p>	<p><b>Installation Instructions</b>  <a href="#">FL20461_R7_IL_(g)_Inst 20461.8.pdf</a>  Verified By: Lyndon F. Schmidt, P.E. 43409  Created by Independent Third Party: Yes  <b>Evaluation Reports</b>  <a href="#">FL20461_R7_AE_(g)_Eval 20461.8.pdf</a>  Created by Independent Third Party: Yes</p>
20461.9	i. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Non-Impact" Glazed Composite Edge Fiberglass Single Door (Inswing/Outswing; X configuration)
	<p><b>Limits of Use</b>  <b>Approved for use in HVHZ:</b> No  <b>Approved for use outside HVHZ:</b> Yes  <b>Impact Resistant:</b> No  <b>Design Pressure:</b> N/A  <b>Other:</b> See INST 20461.9 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-</p>	<p><b>Installation Instructions</b>  <a href="#">FL20461_R7_IL_(g)_Inst 20461.9.pdf</a>  Verified By: Lyndon F. Schmidt, P.E. 43409  Created by Independent Third Party: Yes  <b>Evaluation Reports</b>  <a href="#">FL20461_R7_AE_(g)_Eval 20461.9.pdf</a>  Created by Independent Third Party: Yes</p>

Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		
20461.10	j. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Non-Impact" Glazed Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.10 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL20461_R7_IL_(g)_Inst 20461.10.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g)_Eval 20461.10.pdf</a> Created by Independent Third Party: Yes
20461.11	k. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Non-Impact" Glazed Composite Edge Fiberglass Double Door with or without Sidelites (Inswing/Outswing; XX or OXXO configurations)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.11 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL20461_R7_IL_(g)_Inst 20461.11.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g)_Eval 20461.11.pdf</a> Created by Independent Third Party: Yes
20461.12	l. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 7'0 "Non-Impact" Glazed Composite Edge Fiberglass Single Door (Inswing/Outswing; X configuration)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.12 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL20461_R7_IL_(g)_Inst 20461.12.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g)_Eval 20461.12.pdf</a> Created by Independent Third Party: Yes
20461.13	m. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 7'0 "Non-Impact" Glazed Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)

<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.13 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL20461_R7_II_(g)_Inst 20461.13.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g)_Eval 20461.13.pdf</a> Created by Independent Third Party: Yes
20461.14	n. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Non-Impact" Glazed Composite Edge Fiberglass Single Door (Inswing/Outswing; X configuration)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.14 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL20461_R7_II_(g)_Inst 20461.14.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g)_Eval 20461.14.pdf</a> Created by Independent Third Party: Yes
20461.15	o. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Non-Impact" Glazed Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.15 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL20461_R7_II_(g)_Inst 20461.15.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g)_Eval 20461.15.pdf</a> Created by Independent Third Party: Yes
20461.16	p. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Non-Impact" Glazed Composite Edge Fiberglass Double Door with or without Sidelites (Inswing/Outswing; XX or OXXO configurations)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.16 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for		<b>Installation Instructions</b> <a href="#">FL20461_R7_II_(g)_Inst 20461.16.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g)_Eval 20461.16.pdf</a> Created by Independent Third Party: Yes

	these doors, which have been stained or painted within six months of installation.)	
20461.17	q. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Non-Impact" Opaque Composite Edge Fiberglass Single Door with Transom (Inswing/Outswing; O/X configuration)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> See INST 20461.17 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL20461_R7_IL_(g)_Inst_20461.17.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g)_Eval_20461.17.pdf</a> Created by Independent Third Party: Yes
20461.18	r. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Non-Impact" Opaque Composite Edge Fiberglass Single Door with Sidelite(s) and Transom (Inswing/Outswing; O/XO, O/OX or O/OXO configurations)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> INST 20461.18 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL20461_R7_IL_(g)_Inst_20461.18.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g)_Eval_20461.18.pdf</a> Created by Independent Third Party: Yes
20461.19	s. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Non-Impact" Opaque Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO Continuous Head and Sill configurations)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> No <b>Design Pressure:</b> N/A <b>Other:</b> INST 20461.19 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL20461_R7_IL_(g)_Inst_20461.19.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL20461_R7_AE_(g)_Eval_20461.19.pdf</a> Created by Independent Third Party: Yes
20461.20	t. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Non-Impact" Opaque Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO Continuous Head and Sill configurations)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No		<b>Installation Instructions</b> <a href="#">FL20461_R7_IL_(g)_Inst_20461.20.pdf</a>

**Approved for use outside HVHZ:** Yes  
**Impact Resistant:** No  
**Design Pressure:** N/A  
**Other:** INST 20461.20 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)

Verified By: Lyndon F. Schmidt, P.E. 43409  
 Created by Independent Third Party: Yes  
**Evaluation Reports**  
[FL20461\\_R7\\_AE\\_\(g\) Eval 20461.20.pdf](#)  
 Created by Independent Third Party: Yes

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Product Approval Accepts:



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# APPROVED ALUMINUM SOFFIT AND TRIM SCHEDULE

## Kaycan Aluminum Soffit Product

Product	Kaycan Catalog Product Code	Panel Length (in)	Thickness (in)	Net Free Area (sq. in./lineal ft.)	Net Free Area (sq. in./sq. ft.)
SP-600 16" Solid Soffit	606	144	0.015	n/a	n/a
SP-600 16" Vented Soffit	605	144	0.015	21.8	17.3
12" Solid 3 Panel Soffit	9518	144	0.015	n/a	n/a
12" Vented 3 Panel Soffit	9517	144	0.015	6.57	6.57
Channel/Trim (Aluminum)	1191, F-Channel	n/a	0.022	n/a	n/a
	1029, J-Channel	n/a	0.022	n/a	n/a
4" Fascia Trim (Aluminum)	9700	n/a	0.022	n/a	n/a

## INSTALLATION FASTENER SCHEDULE

### INSTALLATION FASTENER SCHEDULE

#### Wall Side

#### F-Channel (Trim)

Component	Substrate	Fastener	Min. Embedment (Note 1)	Max. Spacing
Channel	Wood Wall	Min. 1/8" (0.12") Dia. Nail with 3/8" Head Dia.	1-1/2"	24"
		16 GA. X 7/16" Width Crown Staple 1" Min. Length in	7/8"	24"
	Concrete or Masonry (CMU Block) Wall	Min. 0.097" Diameter Hardened T-Nail	1"	24"

#### J-Channel (Trim)

Component	Substrate	Fastener	Min. Embedment (Note 1)	Max. Spacing
Channel	Wood Wall	Min. 1/8" (0.12") Dia. Nail with 3/8" Head Dia.	1-1/2"	24"
		16 GA. X 7/16" Width Crown Staple 1" Min. Length	7/8"	12"
	Wood Batten	Min. 1/8" (0.12") Dia. Nail with 3/8" Head Dia.	1-1/2"	12"
		16 GA. X 7/16" Width Crown Staple 1" Min. Length	7/8"	24"
Concrete or Masonry (CMU Block) Wall	Min. 0.097" Diameter Hardened T-Nail	1"	12"	
2x2 Nominal Wood Batten	Wood	#8 x 3" FH Wood Screw or Tapping Screw	1-1/2"	24"
Wood Batten	Concrete or Masonry (CMU Block) Wall	3/16" ITW Tapcon Concrete Screw	1"	24"

#### Fascia Side

#### Soffit

Component	Substrate	Fastener	Min. Embedment (Note 1)	Max. Spacing
Soffit	Wood	16 GA. X 7/16" Width Crown Staple 1" Min. Length	7/8"	Located In Each Soffit Panel Valley

#### Fascia (Trim)

Component	Substrate	Fastener	Min. Embedment (Note 1)	Max. Spacing
Fascia	Wood	1-3/4" Long x 0.072" Dia. Trim Nail Stainless Steel	1-3/4"	48"

Note 1: Embedment based on nominal length of fastener through soffit or channel into supporting substrate w/o wall finishes. Where wall finishes are present, the fastener length will be increased as required to maintain embedment depth into supporting substrate.

PROJECT #421-0605

KAYCAN LTD  
1 MEMORIAL DRIVE  
RICHFORD, VT 05476

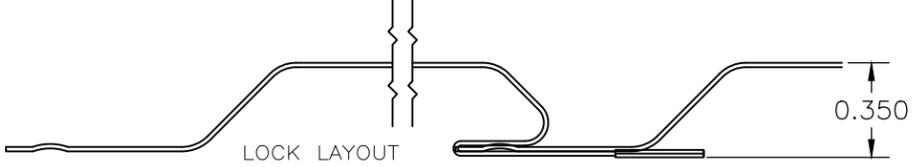
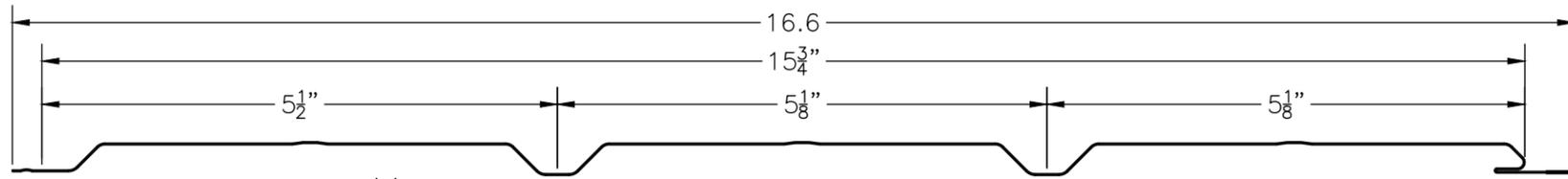
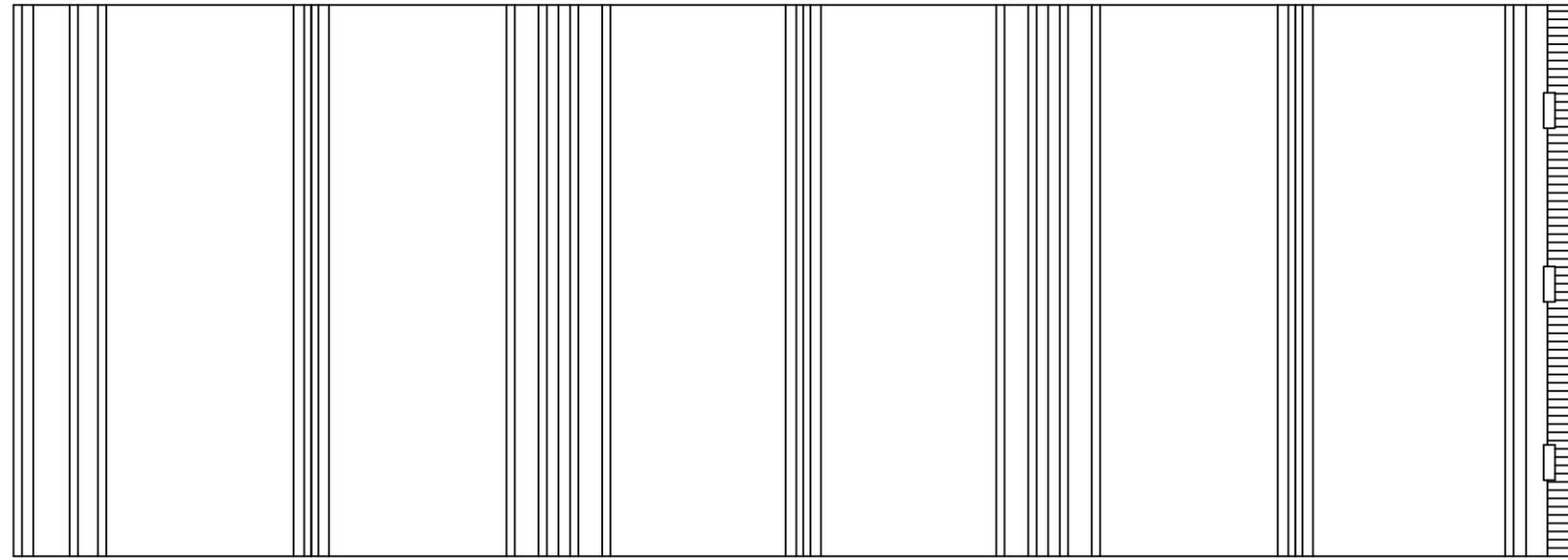
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APPROVED ALUMINUM SOFFIT & TRIM SCHEDULE, INSTALLATION FASTENER SCHEDULE

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DATE: 7/21/21  
SCALE: N.T.S.  
DRAWING NO: KAY5014  
SHEET: 2 OF 11  
REV: ---

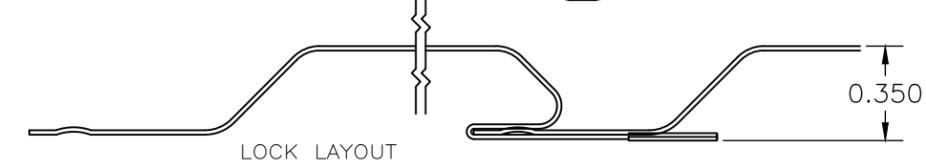
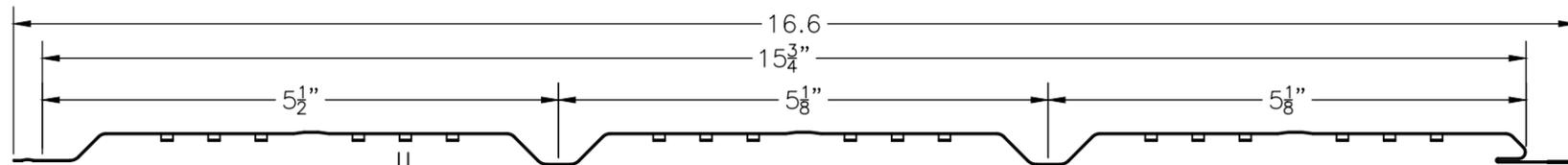
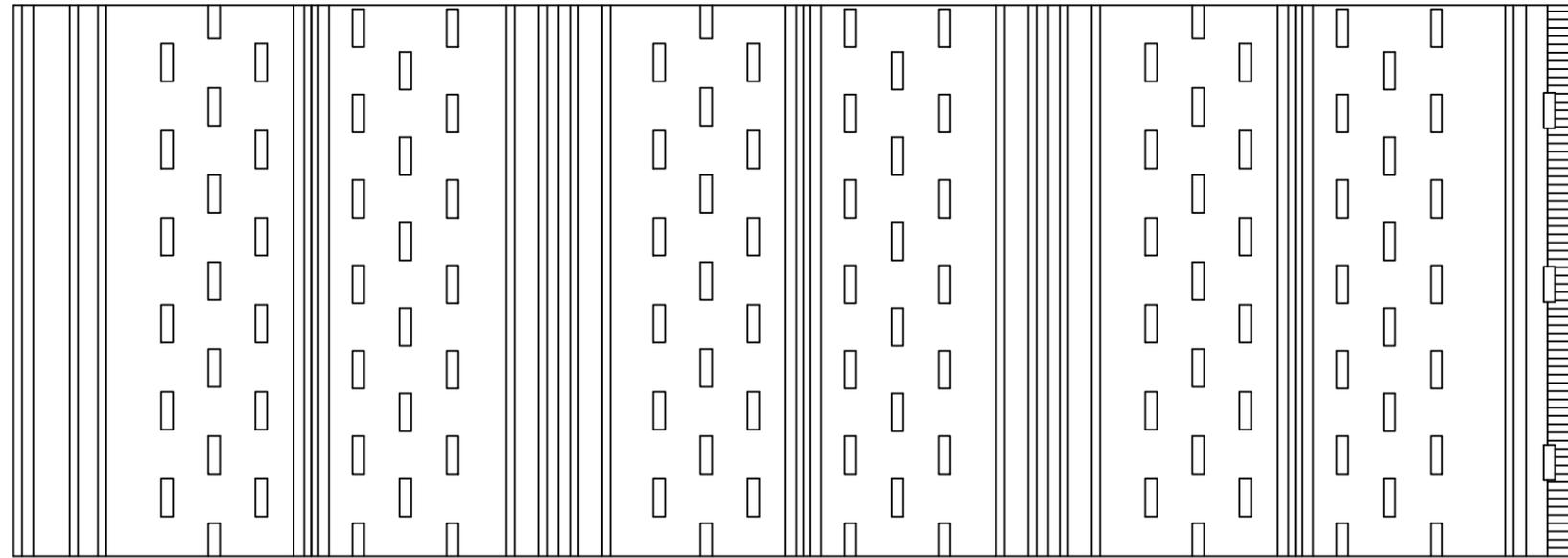


Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





SP-600 16" SOLID  
SOFFIT - ALUMINUM



SP-600 16" VENTED  
SOFFIT - ALUMINUM

PROJECT #421-0605

KAYCAN LTD  
1 MEMORIAL DRIVE  
RICHFORD, VT 05476

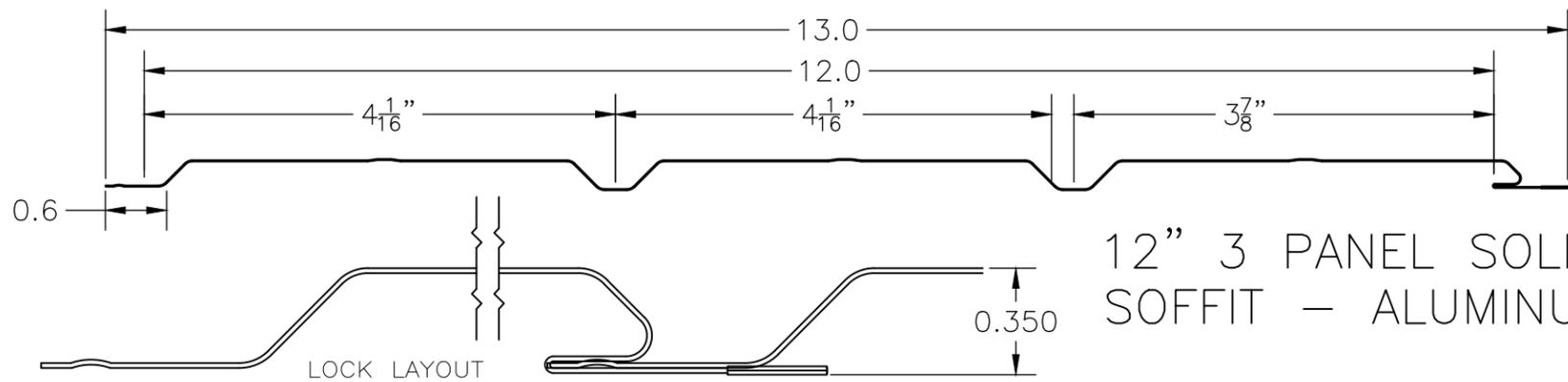
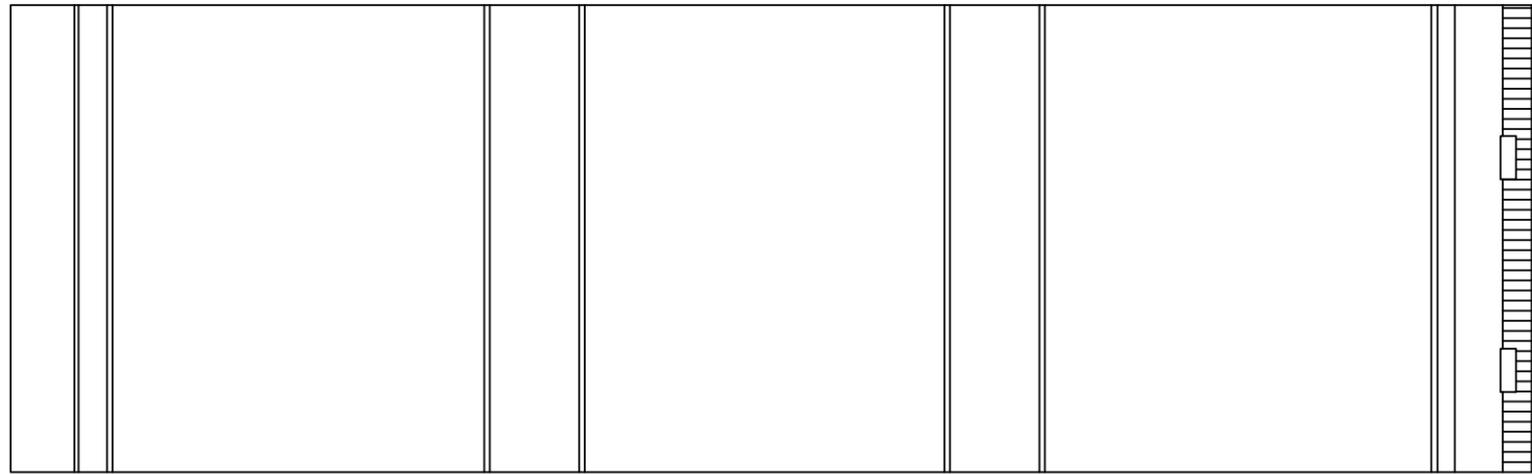
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SP-600 16" SOLID & VENTED SOFFIT - ALUMINUM

PREPARED BY: ---  
DRAWN BY: RJA  
SCALE: N.T.S.  
DATE: 7/21/21  
DRAWING NO: KAY5014  
SHEET: 3 OF 11

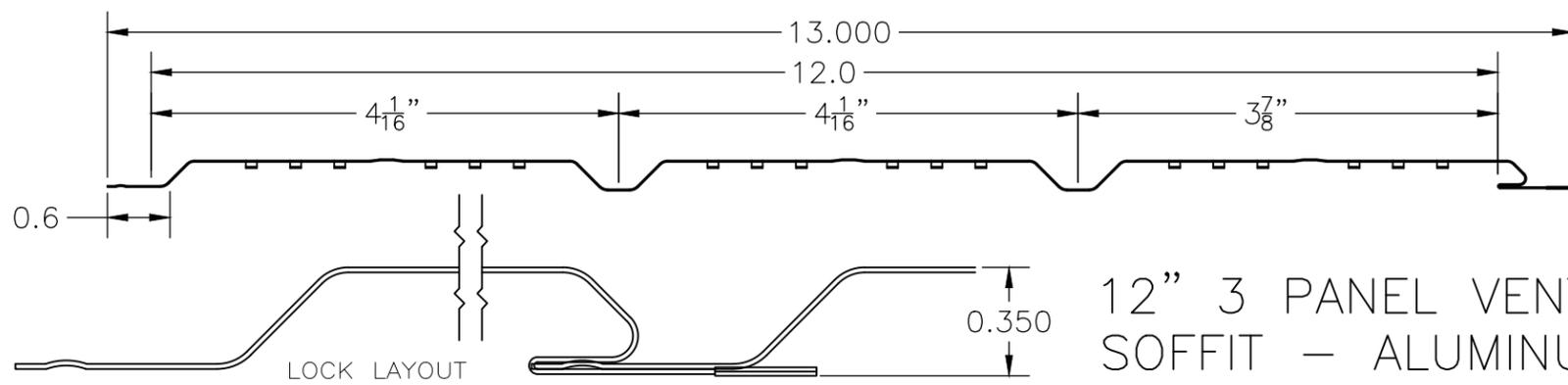
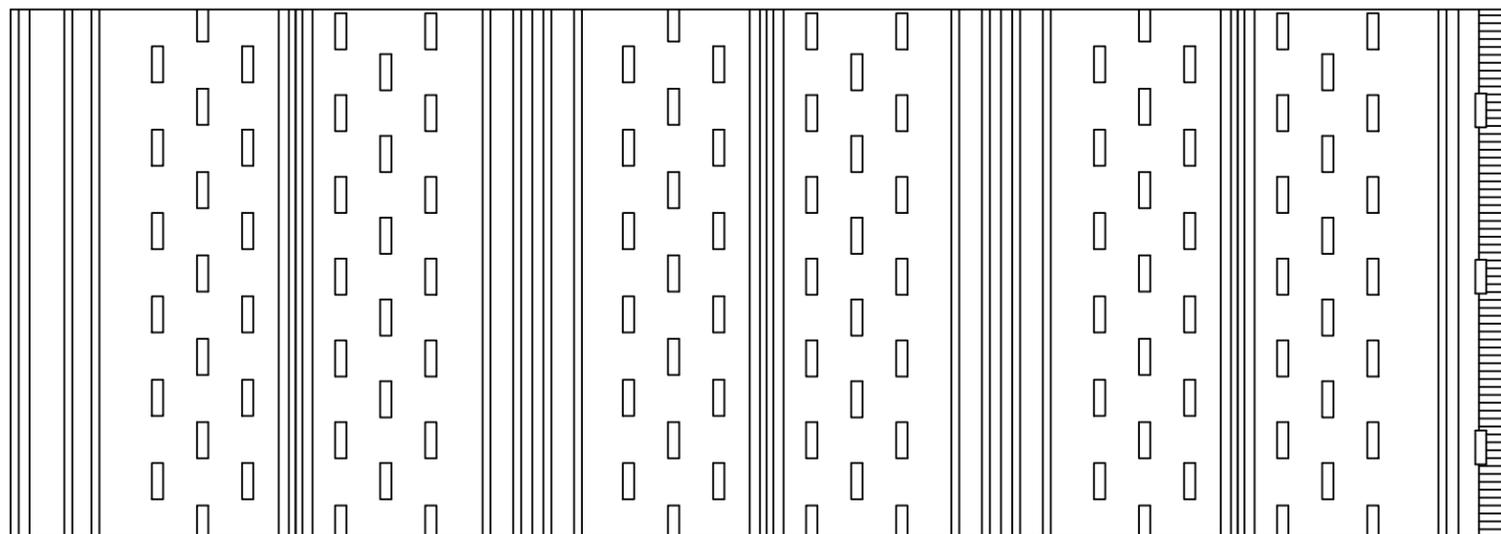


Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





12" 3 PANEL SOLID SOFFIT - ALUMINUM



12" 3 PANEL VENTED SOFFIT - ALUMINUM

PROJECT #421-0605

KAYCAN LTD  
1 MEMORIAL DRIVE  
RICHFORD, VT 05476

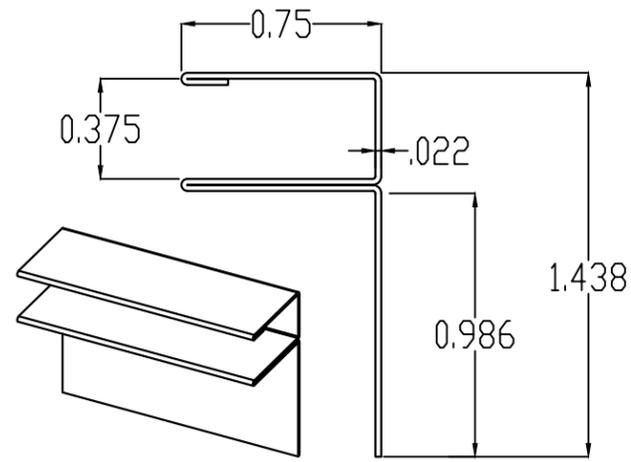
ALUMINUM SOFFIT INSTALLATION  
12" 3 PANEL SOLID & VENTED SOFFIT - ALUMINUM

DATE:	7/21/21
DRAWING NO.:	KAY5014
DRAWN BY:	RJA
SCALE:	N.T.S.
REV:	---
SHEET:	4 OF 11

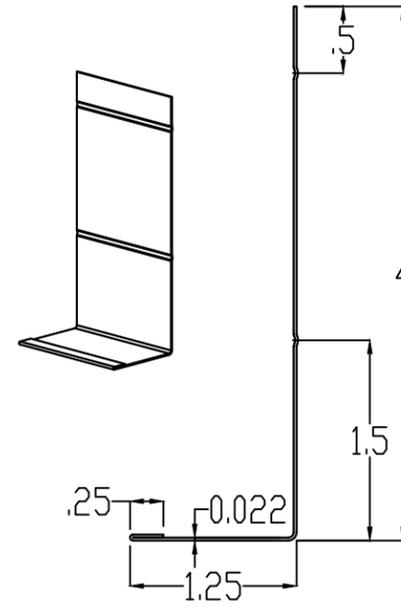


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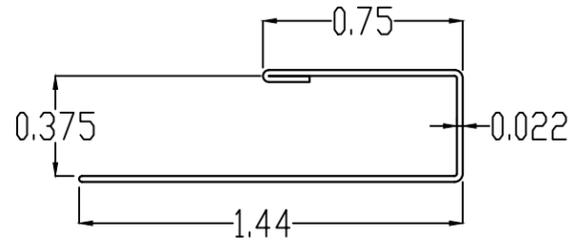




3/8" F-CHANNEL/TRIM  
ALUMINUM (No. 1191)



4" FASCIA SMOOTH  
ALUMINUM (No. 9700)



3/8" J-CHANNEL/TRIM  
ALUMINUM (No. 1029)

PROJECT #421-0605

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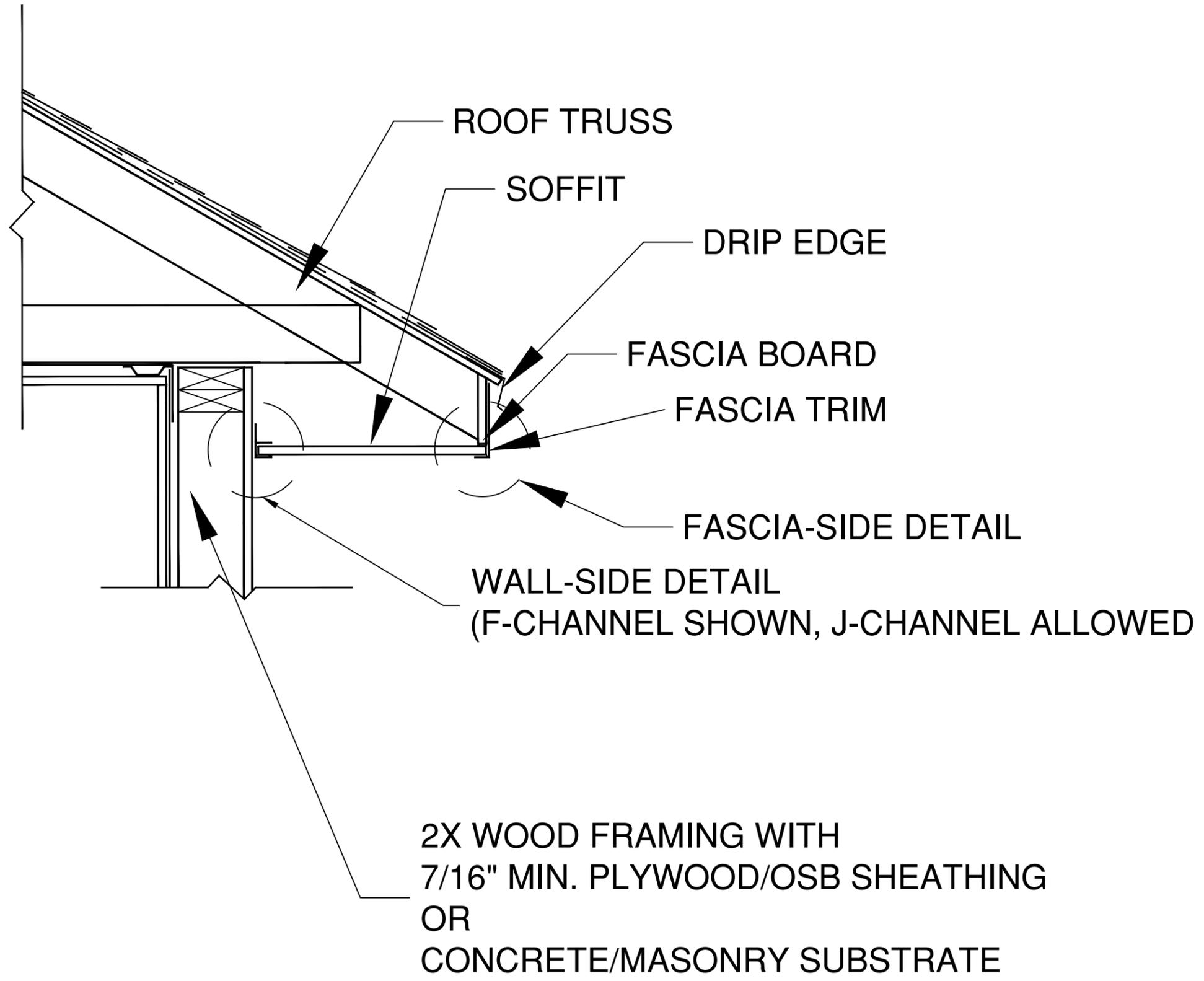
ALUMINUM SOFFIT INSTALLATION  
SOFFIT AND FASCIA TRIM

DRAWN BY:	RJA	DATE:	7/21/21
SCALE:	N.T.S.	DRAWING NO.:	KAY5014
REV:	---	SHEET:	5 OF 11



Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





# ROOF/ WALL INTERFACE DETAIL

WOOD OR MASONRY/CONCRETE SUBSTRATE

PROJECT #421-0605

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TITLE: ALUMINUM SOFFIT INSTALLATION CROSS SECTION  
SOFFIT INSTALLATION CROSS SECTION

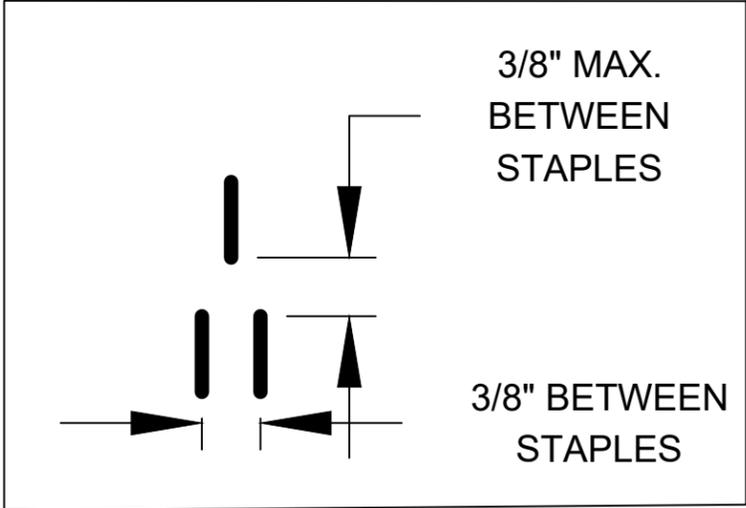
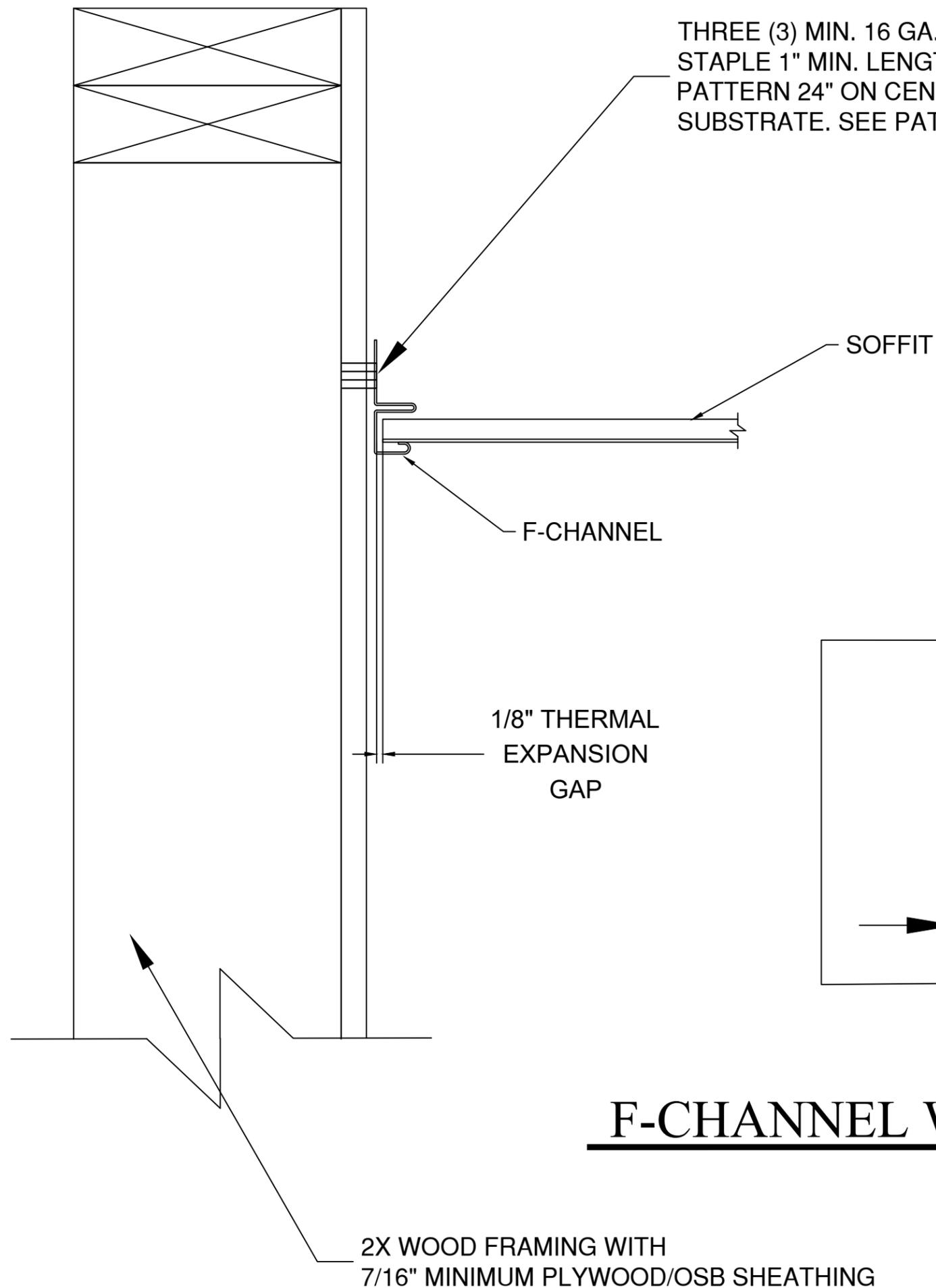
PREPARED BY: RJA  
SCALE: N.T.S.  
DATE: 7/21/21  
DRAWING NO: KAY5014

PTC PRODUCT DESIGN GROUP, LLC  
P.O. Box 520775  
Longwood, FL 32752-0775  
Phone: 321.690.1788  
Fax: 321.690.1789  
Email: info@ptc-corp.com

REV	DESCRIPTION	DATE	BY

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





# F-CHANNEL WALL SIDE - STAPLE DETAIL

WOOD SUBSTRATE

PROJECT #421-0605

KAYCAN LTD  
1 MEMORIAL DRIVE  
RICHMOND, VT 05476

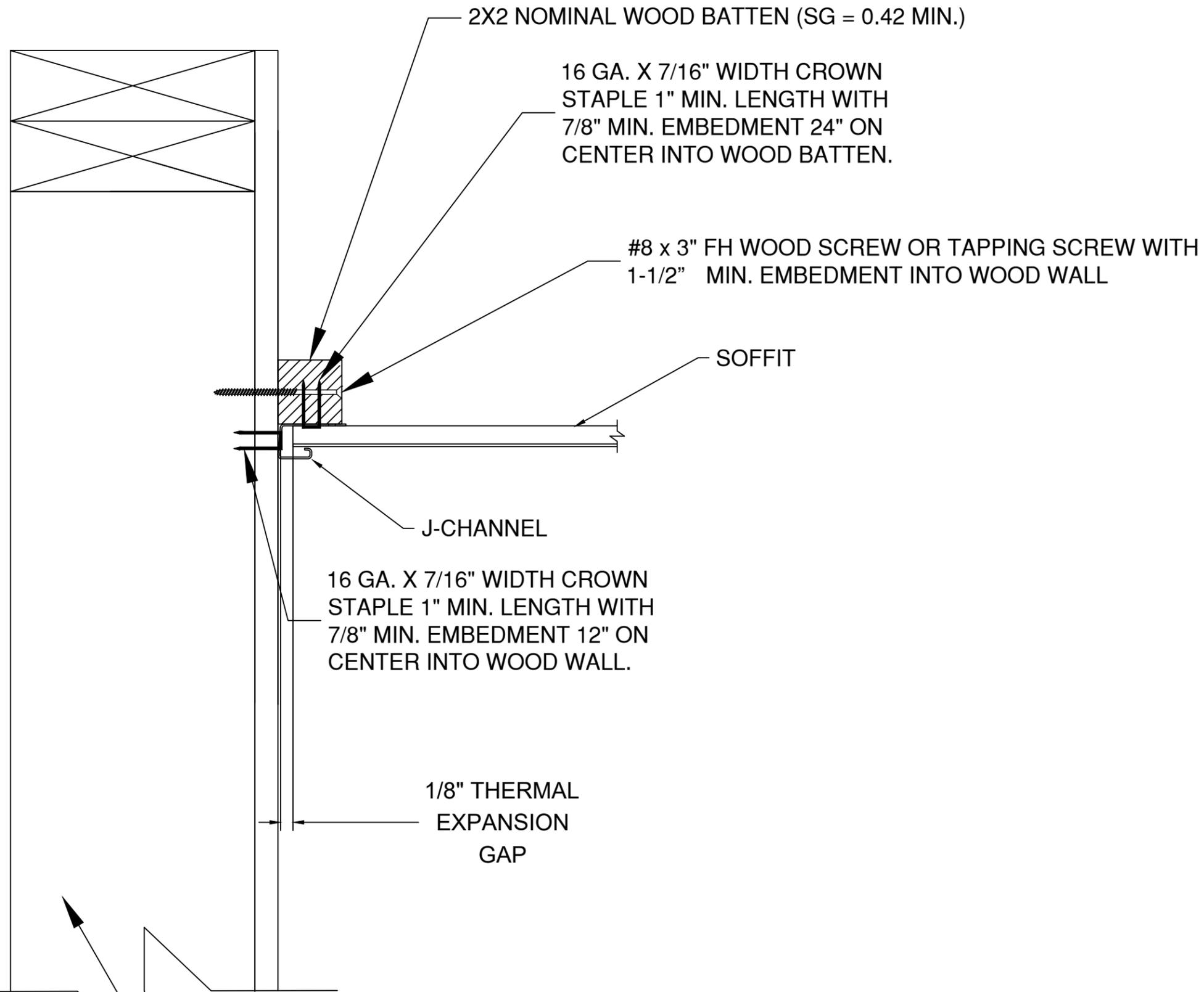
ALUMINUM SOFFIT INSTALLATION  
F-CHANNEL WALL SIDE - STAPLE DETAIL

DATE:	7/21/21
DRAWING NO.:	KAY5014
SCALE:	N.T.S.
REV.:	---
DESCRIPTION	7 OF 11

**FBPE**  
PTC PRODUCT DESIGN GROUP, LLC  
P.O. Box 520775  
Longwood, FL 32752-0775  
Phone: 321.690.1788  
Fax: 321.690.1789  
Email: info@ptc-corp.com

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





# J-CHANNEL WALL SIDE - STAPLE DETAIL

WOOD SUBSTRATE

PROJECT #421-0605

KAYCAN LTD  
1 MEMORIAL DRIVE  
RICHFORD, VT 05476

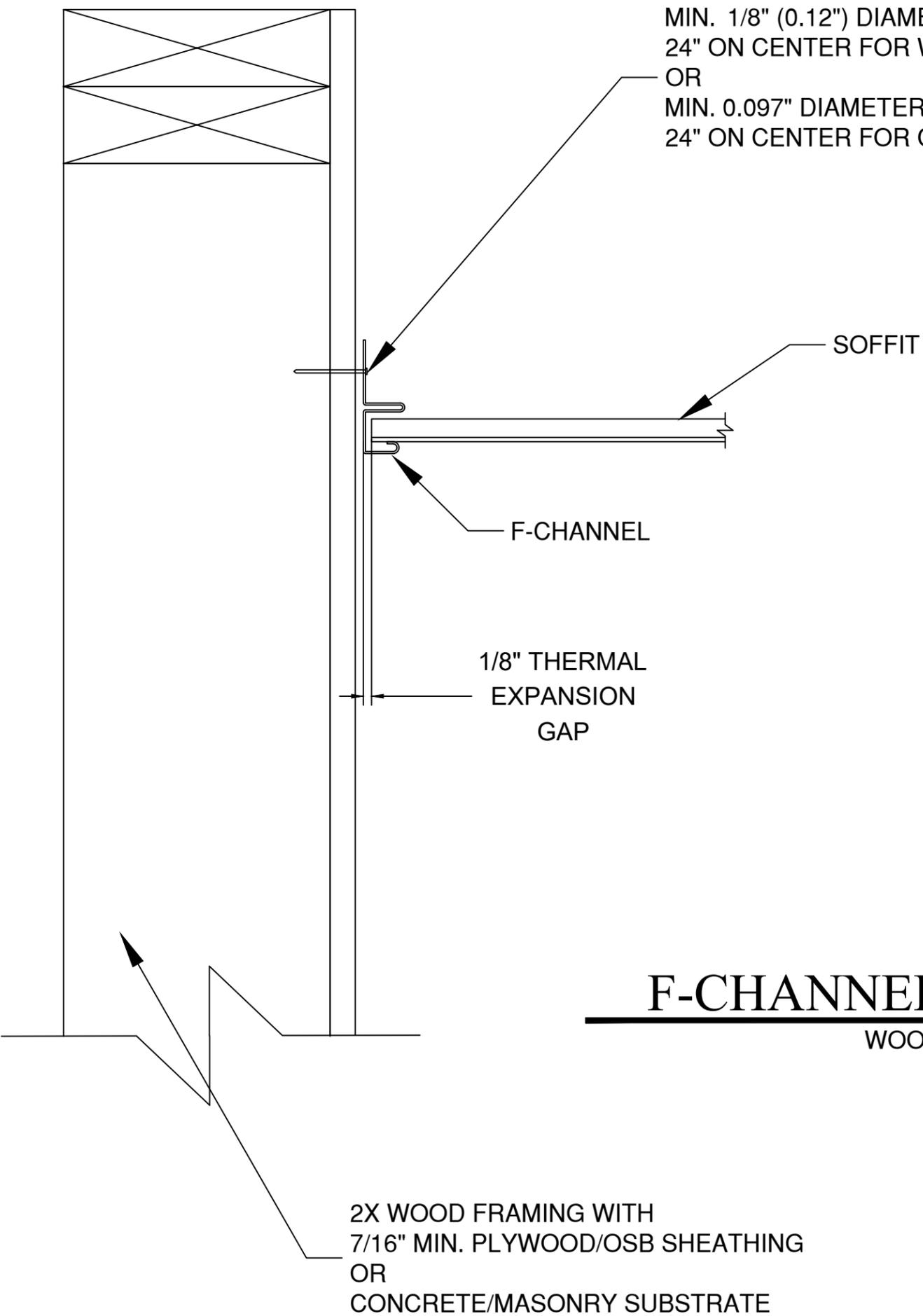
ALUMINUM SOFFIT INSTALLATION  
J-CHANNEL WALL SIDE - STAPLE DETAIL

DATE:	7/21/21
DRAWING NO.:	KAY5014
DRAWN BY:	RJA
SCALE:	N.T.S.
REV:	---
SHEET:	8 OF 11



Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





MIN. 1/8" (0.12") DIAMETER NAIL WITH 3/8" HEAD DIAMETER WITH 1-1/2" EMBEDMENT  
 24" ON CENTER FOR WOOD SUBSTRATE  
 OR  
 MIN. 0.097" DIAMETER T-NAIL OR STUB NAIL WITH 1" ENGAGEMENT  
 24" ON CENTER FOR CONCRETE/MASONRY

SOFFIT

F-CHANNEL

1/8" THERMAL  
 EXPANSION  
 GAP

## F-CHANNEL WALL SIDE - NAIL DETAIL

WOOD OR MASONRY/CONCRETE SUBSTRATE

2X WOOD FRAMING WITH  
 7/16" MIN. PLYWOOD/OSB SHEATHING  
 OR  
 CONCRETE/MASONRY SUBSTRATE

PROJECT #421-0605

REV	DESCRIPTION	DATE	BY

KAYCAN LTD  
 1 MEMORIAL DRIVE  
 RICHFORD, VT 05476

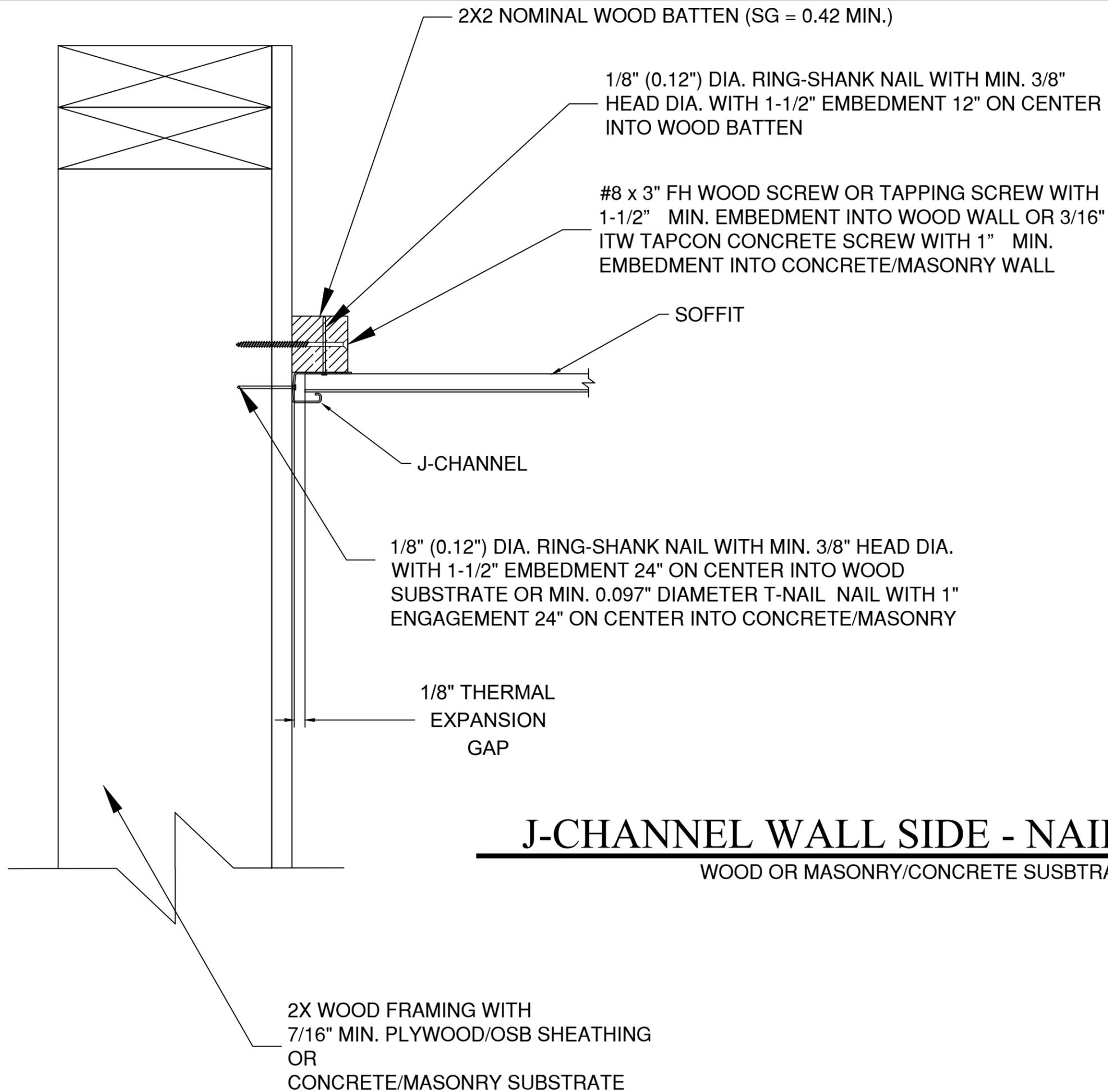
ALUMINUM SOFFIT INSTALLATION  
 F-CHANNEL WALL SIDE - NAIL DETAIL

DATE:	7/21/21
DRAWING NO.:	KAY5014
DRAWN BY:	RJA
SCALE:	N.T.S.
REV:	---
SHEET:	9 OF 11

**FBPE**  
 PTC PRODUCT DESIGN GROUP, LLC  
 P.O. Box 520775  
 Longwood, FL 32752-0775  
 Phone: 321.690.1788  
 Fax: 321.690.1789  
 Email: info@ptc-corp.com

Robert J. Amoruso, P.E.  
 Florida P.E. No. 49752





## J-CHANNEL WALL SIDE - NAIL DETAIL

WOOD OR MASONRY/CONCRETE SUBSTRATE

PROJECT #421-0605

KAYCAN LTD  
1 MEMORIAL DRIVE  
RICHFORD, VT 05476

ALUMINUM SOFFIT INSTALLATION  
J-CHANNEL WALL SIDE - NAIL DETAIL

DRAWN BY: RJA

DATE: 7/21/21

SCALE: N.T.S.

DRAWING NO: KAY5014

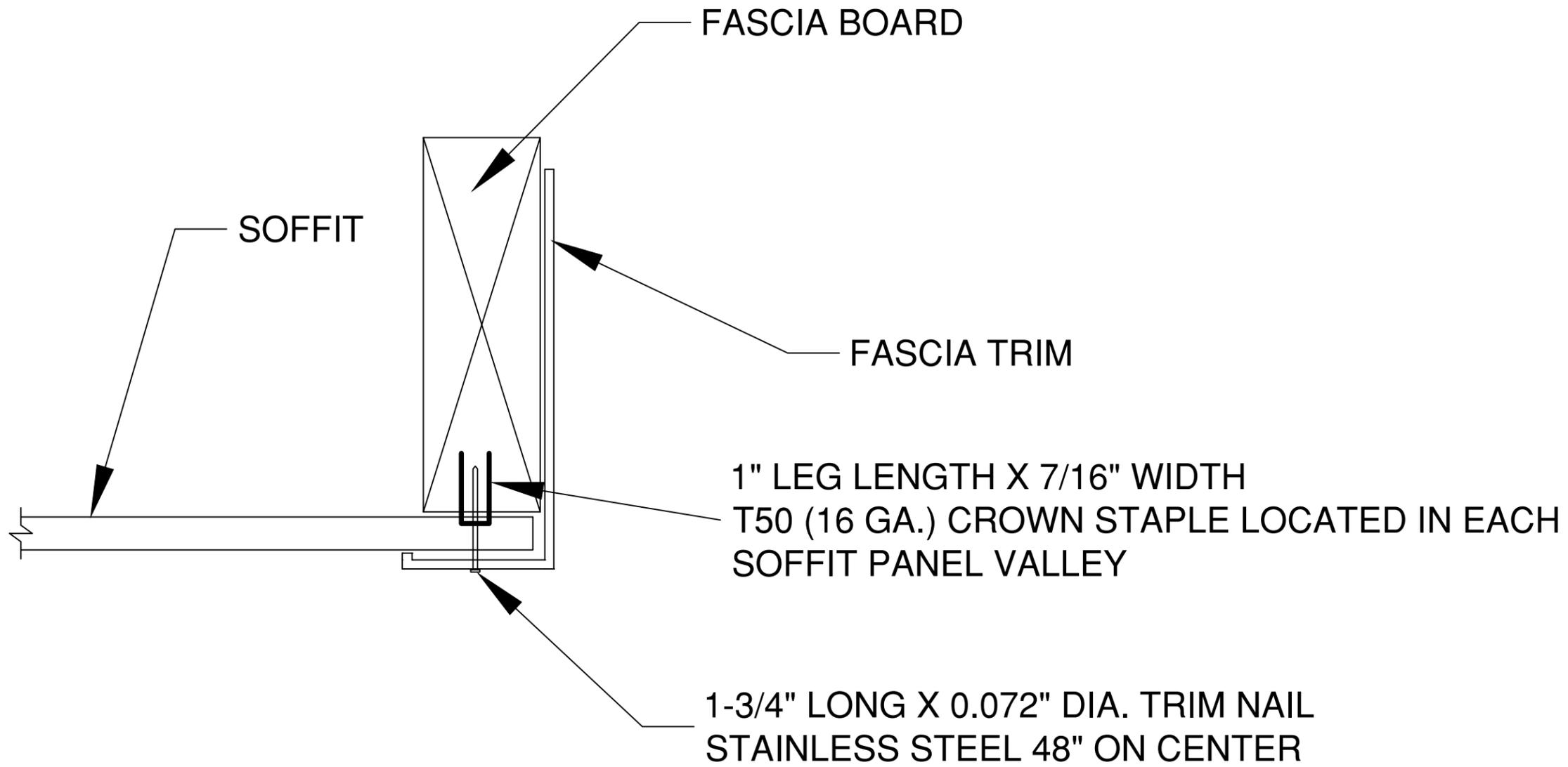
REV: ---

SHEET: 10 OF 11



Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





## FASCIA SIDE DETAIL

WOOD OR MASONRY/CONCRETE SUBSTRATE

PROJECT #421-0605

KAYCAN LTD  
1 MEMORIAL DRIVE  
RICHFORD, VT 05476

ALUMINUM SOFFIT INSTALLATION  
FASCIA SIDE DETAIL

DATE: 7/21/21

DRAWING NO: KAY5014

REV: --- SHEET: 11 OF 11

PREPARED BY: RJA

SCALE: N.T.S.

REV: ---

PTC PRODUCT DESIGN GROUP, LLC  
P.O. Box 520775  
Longwood, FL 32752-0775

Phone: 321.690.1788  
Fax: 321.690.1789

Email: info@ptc-corp.com

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**NOTICE OF ACCEPTANCE (NOA)**

**CertainTeed LLC  
20 Moores Road  
Malvern, PA 19355**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Landmark, Landmark Pro, Landmark Pro/Architect 80, Landmark Premium, Landmark Impact Resistant, Landmark Solaris, Landmark Pro Solaris and Landmark Solaris Gold/Platinum**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA 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 NOA renews NOA # 20-0723.14 and consists of pages 1 through 6.  
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 21-1215.02  
Expiration Date: 02/28/23  
Approval Date: 02/17/22  
Page 1 of 6

## ROOFING ASSEMBLY APPROVAL

<b>Category:</b>	Roofing
<b>Sub-Category:</b>	Asphalt Shingles
<b>Materials</b>	Dimensional
<b>Deck Type:</b>	Wood

### SCOPE

This acceptance is for **CertainTeed Landmark, Landmark Pro, Landmark Pro/Architect 80, Landmark Premium, Landmark Impact Resistant, Landmark Solaris, Landmark Pro Solaris and Landmark Solaris Gold/Platinum** Shingles as manufactured by **CertainTeed LLC** described in Section 2 of this Notice of Acceptance.

### PRODUCT DESCRIPTION:

<b>Product</b>	<b>Dimensions</b>	<b>Test Specifications</b>	<b>Product Description</b>
<b>CertainTeed Landmark</b> <i>Manufacturing Locations #1, 2, 3, 4, 5, 6, 7, 8, 9, 10</i>	13¼" x 38 ¾"	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Pro</b> <i>Manufacturing Locations #1, 3, 4, 5, 6, 9, 10</i>	13¼" x 38 ¾"	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Premium</b> <i>Manufacturing Locations #1, 3, 4, 5, 6, 8, 9</i>	13¼" x 38 ¾"	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Impact Resistant</b> <i>Manufacturing Locations #7</i>	13¼" x 38 ¾"	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Pro/Architect 80</b> <i>Manufacturing Locations #8</i>	13¼" x 38 ¾"	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Solaris</b> <i>Manufacturing Locations #8, 9</i>	13¼" x 38 ¾"	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Pro Solaris</b> <i>Manufacturing Location #9</i>	13¼" x 38 ¾"	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Solaris Gold/Platinum</b> <i>Manufacturing Locations # 8</i>	13¼" x 38 ¾"	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>Accessory Shingles</b>	various	proprietary	Accessory shingles for hip, ridge and starter strip applications.



**MANUFACTURING LOCATIONS:**

1. Peachtree City, GA
2. Ennis, TX
3. Oxford, NC
4. Shakopee, MN
5. Avery (Milan), OH
6. Norwood, MA
7. Shreveport, LA
8. Portland, OR
9. Wilmington, CA
10. Jonesburg, MO

**EVIDENCE SUBMITTED:**

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI Asphalt Technologies, Inc.	PCTC-01-02-01	TAS 100	01/12/01
	CTC-006-02-01	TAS 100	11/12/02
	CTC-092-02-01	TAS 100	02/23/12
	CTC-091-02-01	TAS 100	02/21/12
	CTC-090-02-01	TAS 100	09/02/11
	CTC-087-02-01	TAS 100	07/07/11
	CTC-086-02-01	TAS 100	07/07/11
	CTC-101-02-01		10/05/11
	CTC-102-02-01		10/05/11
	CTC-109-02-01		01/18/12
	CTC-106-02-01		11/02/11
	CTC-105-02-01		10/31/11
	CTC-089-02-01		07/18/11
	CTC-088-02-01	TAS 100	07/18/11
	CTC-213-02-01	TAS 100	05/20/14
	CTC-212-02-01	TAS 100	05/21/14
	CTC-207-02-01	TAS 100	05/20/14
	CTC-206-02-01	TAS 100	05/20/14
	CTC-110-02-01	TAS 100	02/13/12
	CTC-109-02-01	TAS 100	02/13/12
CTC-288-02-01	TAS 100	09/27/16	
CTC-333-02-01		11/08/17	
Underwriters Laboratories, Inc.	94NK9632	Wind uplift resistance TAS 107	11/30/00
	R684	UL 790	04/02/01
	02NK42448	Wind uplift resistance TAS 107	11/08/02
	09CA28873	Letter	07/23/09
	11CA59020	TAS 107/ ASTM D3161	01/25/12
	11NK07864	TAS 107/ ASTM D3161	09/29/11
	07CA26696	TAS 107/ ASTM D3161	09/21/07
	11CA38844	TAS 107/ ASTM D3161	01/28/12
	11CA38844	TAS 107/ ASTM D3161	01/27/12
	06CA28237	TAS 107/ ASTM D3161	09/22/06



10NK17366	TAS 107/ ASTM D3161	01/04/11
4786334383	TAS 107/ ASTM D3161	05/28/14
4786307351	TAS 107/ ASTM D3161/ASTM D 3462	05/13/14
11NK08333	ASTM D3462	05/15/12
11NK08333	ASTM D3462	04/15/12
11NK07864	ASTM D3462	09/29/11
11NK08333/Letter	ASTM D3462 / UL790	11/05/12
11NK08333/Letter	ASTM D3462 / UL790	11/05/12
11NK08333/Letter	ASTM D3462 / UL790	11/05/12
12NK13474	ASTM D3462 / UL790	05/27/13
4786325932	ASTM D3462 / UL790	04/04/14
4787011023	ASTM D 3462	08/01/15
11CA38844	TAS 107/ ASTM D3161	01/26/12
06CA02648	TAS 107/ ASTM D3161	02/23/06
4787084802	TAS 107/ ASTM D3161	03/14/16
4787852839	ASTM D 3462	03/24/17
4787011023	ASTM D 3462	08/01/15
4788368979	ASTM D 3462	10/30/18
4787592174	ASTM D 3462	10/21/16

**LIMITATIONS:**

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Shall not be installed on roof mean heights in excess of 33 ft.
3. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

**INSTALLATION:**

1. Shingles shall be installed in compliance with Roofing Application Standard RAS 115.
2. Flashing shall be in accordance with Roofing Application Standard RAS 115
3. The manufacturer shall provide clearly written application instructions.
4. Exposure and course layout shall be in compliance with Detail 'A', attached.
5. Nailing shall be in compliance with Detail 'B', attached.

**LABELING:**

1. Shingles shall be labeled with the Miami-Dade Product Control approved seal as seen below or the wording "Miami-Dade County Product Control Approved".



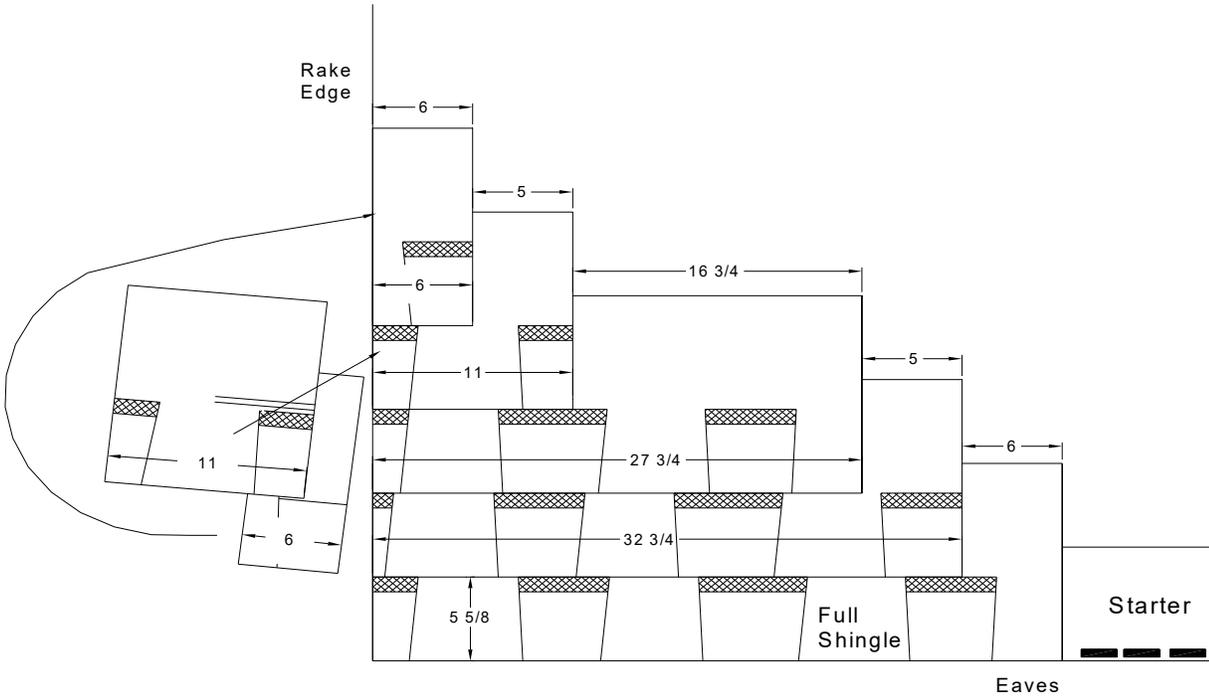
**BUILDING PERMIT REQUIREMENTS:**

1. Application for building permit shall be accompanied by copies of the following:
  - 1.1 This Notice of Acceptance.
  - 1.2 Any other documents required by the Building Official or the applicable code in order to properly evaluate the installation of this system.



NOA No.: 21-1215.02  
 Expiration Date: 02/28/23  
 Approval Date: 02/17/22  
 Page 4 of 6

**SHINGLE LAYOUT  
DETAIL A**

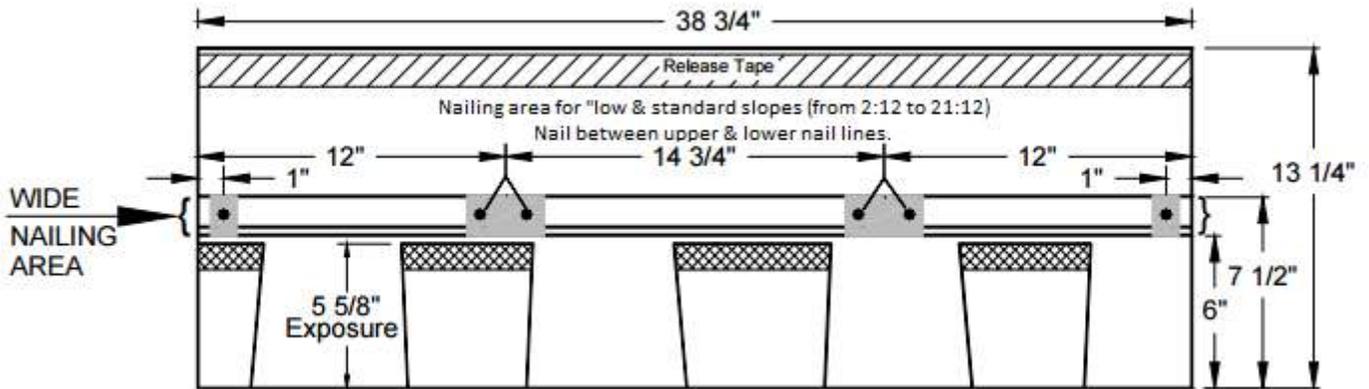


**LANDMARK, LANDMARK PRO, LANDMARK PRO/ARCHITECT 80, LANDMARK PREMIUM,  
LANDMARK IMPACT RESISTANT, LANDMARK SOLARIS, LANDMARK PRO SOLARIS AND  
LANDMARK SOLARIS GOLD/PLATINUM**



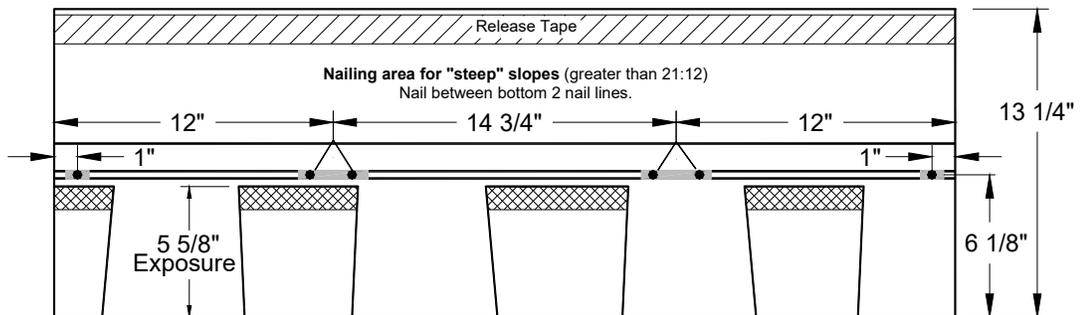
NOA No.: 21-1215.02  
Expiration Date: 02/28/23  
Approval Date: 02/17/22  
Page 5 of 6

**DETAIL B**



**LANDMARK, LANDMARK PRO, LANDMARK PRO/ARCHETECT 80, LANDMARK PREMIUM, LANDMARK IMPACT RESISTANT, LANDMARK SOLARIS, LANDMARK PRO SOLARIS AND LANDMARK SOLARIS GOLD/PLATINUM**

**(LOW AND STANDARD SLOPE)**



**LANDMARK, LANDMARK PRO, LANDMARK PRO/ARCHETECT 80, LANDMARK PREMIUM, LANDMARK IMPACT RESISTANT, LANDMARK SOLARIS, LANDMARK PRO SOLARIS AND LANDMARK SOLARIS GOLD/PLATINUM**

**(STEEP SLOPE)**

**END OF THIS ACCEPTANCE**



## Landmark<sup>®</sup>, Landmark<sup>®</sup> Premium, Landmark<sup>®</sup> Pro Shingles, Landmark<sup>®</sup> Pro/Architect 80 (NW Region Only) Shingles

### PRODUCT INFORMATION

Landmark shingles reflect the same high manufacturing standards and superior warranty protection as the rest of CertainTeed's line of roofing products. Landmark Premium (and Algae Resistant-AR), Landmark PRO (and AR) and Landmark (and AR) are built with the industry's toughest fiber glass mat base, and their strict dimensional tolerance assures consistency. Complex granule color blends and subtle shadow lines produce a distinctive color selection. Landmark is produced with the unique NailTrak<sup>®</sup> nailing feature. **Please see the installation instruction section below for important information regarding NailTrak.**



In the Northwest Region Landmark PRO (AR) is double-branded as Landmark PRO/Architect 80 (AR).

Landmark algae-resistant (AR) shingles are algae-resistant and help protect against dark or black discoloration, sometimes called staining or streaking, caused by blue-green algae. AR shingles are not available in all regions.

**Colors:** Please refer to the product brochure or CertainTeed website for the colors available in your region.

**Limitations:** Use on roofs with slopes greater than 2" per foot. Low-slope applications (2:12 to < 4:12) require additional underlayment. In areas where icing along eaves can cause the back-up of water, apply CertainTeed WinterGuard<sup>®</sup> Waterproofing Shingle Underlayment, or its equivalent, according to application instructions provided with the product and on the shingle package.

**Product Composition:** Landmark Series shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. Two pieces of the shingle are firmly laminated together in a special, tough asphaltic cement. All Landmark shingles have self-sealing adhesive strips.

### Applicable Standards

ASTM D3018 Type I

ASTM D3462

ASTM E108 Class A Fire Resistance

ASTM D3161 Class F Wind Resistance

ASTM D7158 Class H Wind Resistance

UL 790 Class A Fire Resistance

ICC-ES ESR-1389 and ESR-3537

CSA Standard A123.5 (Regional)

Miami-Dade Product Control Approved

Florida Product Approval # FL5444

Meets TDI Windstorm Requirements

### Technical Data:

	<b>Landmark (and AR)</b>	<b>Landmark PRO* (and AR)</b>	<b>Landmark Premium (and AR)</b>
Weight/Square (approx.)	219 to 238 lb **	240 to 267 lb **	300 lb
Dimensions (overall)	13 1/4" x 38 3/4"	13 1/4" x 38 3/4"	13 1/4" x 38 3/4"
Shingles/Square (approx.)	66	66	66
Weather Exposure	5 5/8"	5 5/8"	5 5/8"

\*Includes Landmark PRO AR/Architect 80

\*\*Dependent on manufacturing location

**INSTALLATION**

Detailed installation instructions are supplied on each bundle of Landmark shingles and must be followed. Separate application sheets may also be obtained from CertainTeed.

**Hips and Ridges:** For capping hip and ridge apply CertainTeed Shadow Ridge®, Cedar Crest® or Mountain Ridge® shingles of a like color.

**MAINTENANCE**

These shingles do not require maintenance when installed according to manufacturer's application instructions. However, to protect the investment, any roof should be routinely inspected at least once a year. Older roofs should be looked at more frequently.

**WARRANTY**

Landmark Premium (and AR), Landmark PRO/Architect 80 AR, Landmark PRO (and AR), and Landmark (and AR) shingles carry a lifetime limited, transferable warranty to the consumer against manufacturing defects when applied to stated CertainTeed application instructions for this product. In addition, Landmark Premium (and AR), Landmark PRO (and AR), Landmark PRO/Architect 80 AR, and Landmark (and AR) carry 10-years of SureStart™ Protection. Landmark AR shingles carry a 10-year algae resistance warranty. Landmark Premium AR, Landmark PRO AR, and Landmark PRO/Architect 80 AR shingles carry a 15-year algae resistance warranty. For specific warranty details and limitations, refer to the warranty itself (available from the local supplier, roofing contractor or on-line at [www.certainteed.com](http://www.certainteed.com)).

**FOR MORE INFORMATION**

Sales Support Group: 800-233-8990

Web site: [www.certainteed.com](http://www.certainteed.com)

See us at our on-line specification writing tool, CertaSpec®, at [www.certainteed.com/certaspec](http://www.certainteed.com/certaspec).

**CertainTeed**

20 Moores Road  
Malvern, PA 19355

© 01/20 CertainTeed





DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

## NOTICE OF ACCEPTANCE (NOA)

**CertainTeed Corporation**  
**20 Moores Road**  
**Malvern, PA 19355**

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION:** Landmark, Landmark Pro, Landmark Pro/Architect 80, Landmark Premium, Landmark Impact Resistant, Landmark Solaris, Landmark Pro Solaris and Landmark Solaris Gold/Platinum

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA 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 NOA revises NOA # 17-1211.08 and consists of pages 1 through 7.

The submitted documentation was reviewed by *Freddy Semino* 



NOA No.: 18-1114.02  
Expiration Date: 02/28/22  
Approval Date: 05/09/19  
Page 1 of 7

## ROOFING ASSEMBLY APPROVAL

<b>Category:</b>	Roofing
<b>Sub-Category:</b>	Asphalt Shingles
<b>Materials</b>	Dimensional
<b>Deck Type:</b>	Wood

### SCOPE

This acceptance is for **CertainTeed Landmark, Landmark Pro, Landmark Pro/Architect 80, Landmark Premium, Landmark Impact Resistant, Landmark Solaris, Landmark Pro Solaris and Landmark Solaris Gold/Platinum** Shingles as manufactured by **CertainTeed Corporation** described in Section 2 of this Notice of Acceptance.

### PRODUCT DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
<b>CertainTeed Landmark</b> <i>Manufacturing Locations #1, 2, 3, 4, 5, 6, 7, 8, 9, 10</i>	13 <sup>1</sup> / <sub>4</sub> " x 38 <sup>3</sup> / <sub>4</sub> "	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Pro</b> <i>Manufacturing Locations #1, 3, 4, 5, 6, 9, 10</i>	13 <sup>1</sup> / <sub>4</sub> " x 38 <sup>3</sup> / <sub>4</sub> "	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Premium</b> <i>Manufacturing Locations #1, 3, 4, 5, 6, 8, 9</i>	13 <sup>1</sup> / <sub>4</sub> " x 38 <sup>3</sup> / <sub>4</sub> "	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Impact Resistant</b> <i>Manufacturing Locations #7</i>	13 <sup>1</sup> / <sub>4</sub> " x 38 <sup>3</sup> / <sub>4</sub> "	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Pro/Architect 80</b> <i>Manufacturing Locations #8</i>	13 <sup>1</sup> / <sub>4</sub> " x 38 <sup>3</sup> / <sub>4</sub> "	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Solaris</b> <i>Manufacturing Locations #8, 9</i>	13 <sup>1</sup> / <sub>4</sub> " x 38 <sup>3</sup> / <sub>4</sub> "	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>CertainTeed Landmark Pro Solaris</b> <i>Manufacturing Location #9</i>	13 <sup>1</sup> / <sub>4</sub> " x 38 <sup>3</sup> / <sub>4</sub> "	TAS 110	A heavy weight, dimensional asphalt shingle
<b>CertainTeed Landmark Solaris Gold/Platinum</b> <i>Manufacturing Locations # 8</i>	13 <sup>1</sup> / <sub>4</sub> " x 38 <sup>3</sup> / <sub>4</sub> "	TAS 110	A heavy weight, dimensional asphalt shingle.
<b>Accessory Shingles</b>	various	proprietary	Accessory shingles for hip, ridge and starter strip applications.

### MANUFACTURING LOCATIONS:

1. Peachtree City, GA
2. Ennis, TX
3. Oxford, NC
4. Shakopee, MN



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5. Avery (Milan), OH
6. Norwood, MA
7. Shreveport, LA
8. Portland, OR
9. Wilmington, CA
10. Jonesburg, MO

**EVIDENCE SUBMITTED:**

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>	
PRI Asphalt Technologies, Inc.	PCTC-01-02-01	TAS 100	01/12/01	
	CTC-006-02-01	TAS 100	11/12/02	
	CTC-092-02-01	TAS 100	02/23/12	
	CTC-091-02-01	TAS 100	02/21/12	
	CTC-090-02-01	TAS 100	09/02/11	
	CTC-087-02-01	TAS 100	07/07/11	
	CTC-086-02-01	TAS 100	07/07/11	
	CTC-101-02-01	TAS 100	10/05/11	
	CTC-102-02-01	TAS 100	10/05/11	
	CTC-109-02-01	TAS 100	01/18/12	
	CTC-106-02-01	TAS 100	11/02/11	
	CTC-105-02-01	TAS 100	10/31/11	
	CTC-089-02-01	TAS 100	07/18/11	
	CTC-088-02-01	TAS 100	07/18/11	
	CTC-213-02-01	TAS 100	05/20/14	
	CTC-212-02-01	TAS 100	05/21/14	
	CTC-207-02-01	TAS 100	05/20/14	
	CTC-206-02-01	TAS 100	05/20/14	
	CTC-110-02-01	TAS 100	02/13/12	
	CTC-109-02-01	TAS 100	02/13/12	
	CTC-288-02-01	TAS 100	09/27/16	
	CTC-333-02-01	TAS 100	11/08/17	
	Underwriters Laboratories, Inc.	94NK9632	Wind uplift resistance TAS 107	11/30/00
		R684	UL 790	04/02/01
02NK42448		Wind uplift resistance TAS 107	11/08/02	
09CA28873		Letter	07/23/09	
11CA59020		TAS 107/ ASTM D3161	01/25/12	
11NK07864		TAS 107/ ASTM D3161	09/29/11	
07CA26696		TAS 107/ ASTM D3161	09/21/07	
11CA38844		TAS 107/ ASTM D3161	01/28/12	
11CA38844		TAS 107/ ASTM D3161	01/27/12	
06CA28237		TAS 107/ ASTM D3161	09/22/06	
10NK17366		TAS 107/ ASTM D3161	01/04/11	
4786334383		TAS 107/ ASTM D3161	05/28/14	
4786307351	TAS 107/ ASTM D3161/ASTM D 3462	05/13/14		



11NK08333	ASTM D3462	05/15/12
11NK08333	ASTM D3462	04/15/12
11NK07864	ASTM D3462	09/29/11
11NK08333/Letter	ASTM D3462 / UL790	11/05/12
11NK08333/Letter	ASTM D3462 / UL790	11/05/12
11NK08333/Letter	ASTM D3462 / UL790	11/05/12
12NK13474	ASTM D3462 / UL790	05/27/13
4786325932	ASTM D3462 / UL790	04/04/14
4787011023	ASTM D 3462	08/01/15
11CA38844	TAS 107/ ASTM D3161	01/26/12
06CA02648	TAS 107/ ASTM D3161	02/23/06
4787084802	TAS 107/ ASTM D3161	03/14/16
4787852839	ASTM D3462	03/24/17
4787011023	ASTM D3462	08/01/15
4788368979	ASTM D3462	10/30/18
4787592174	ASTM D3462	10/21/16

**LIMITATIONS:**

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Shall not be installed on roof mean heights in excess of 33 ft.
3. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

**INSTALLATION:**

1. Shingles shall be installed in compliance with Roofing Application Standard RAS 115.
2. Flashing shall be in accordance with Roofing Application Standard RAS 115
3. The manufacturer shall provide clearly written application instructions.
4. Exposure and course layout shall be in compliance with Detail 'A', attached.
5. Nailing shall be in compliance with Detail 'B', attached.



**LABELING:**

1. Shingles shall be labeled with the Miami-Dade Product Control approved seal as seen below or the wording “Miami-Dade County Product Control Approved”.

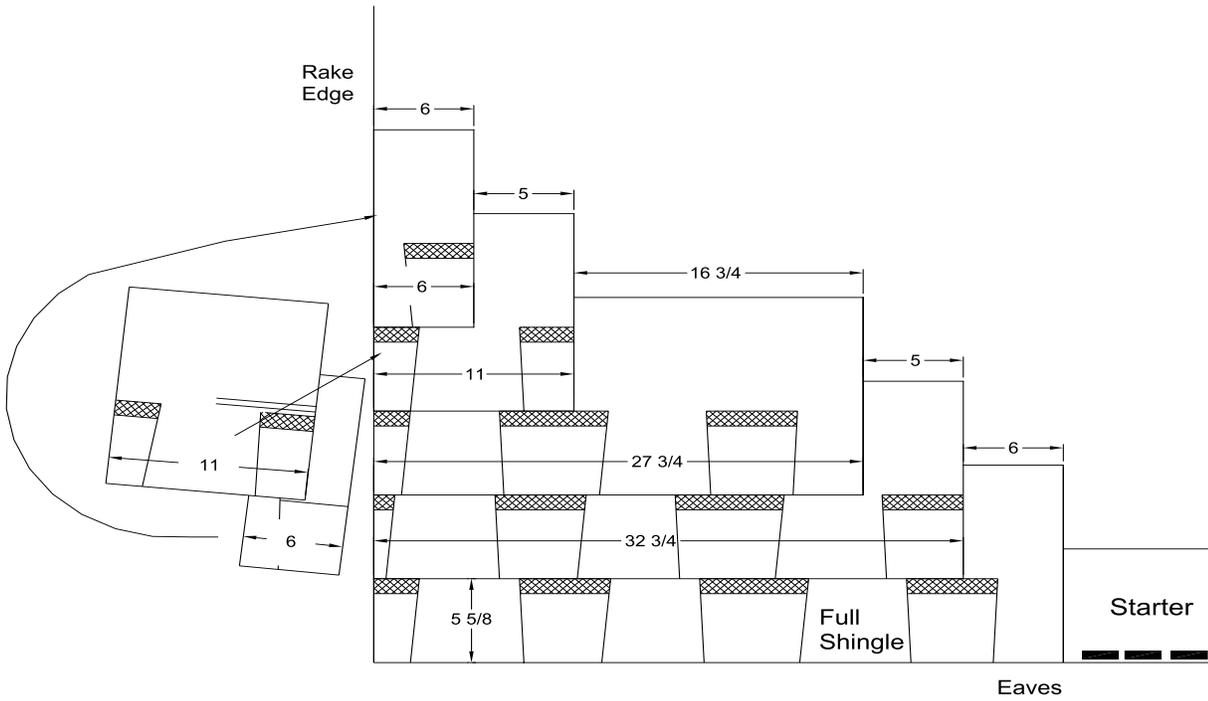


**BUILDING PERMIT REQUIREMENTS:**

1. Application for building permit shall be accompanied by copies of the following:
  - 1.1 This Notice of Acceptance.
  - 1.2 Any other documents required by the Building Official or the applicable code in order to properly evaluate the installation of this system.



# SHINGLE LAYOUT

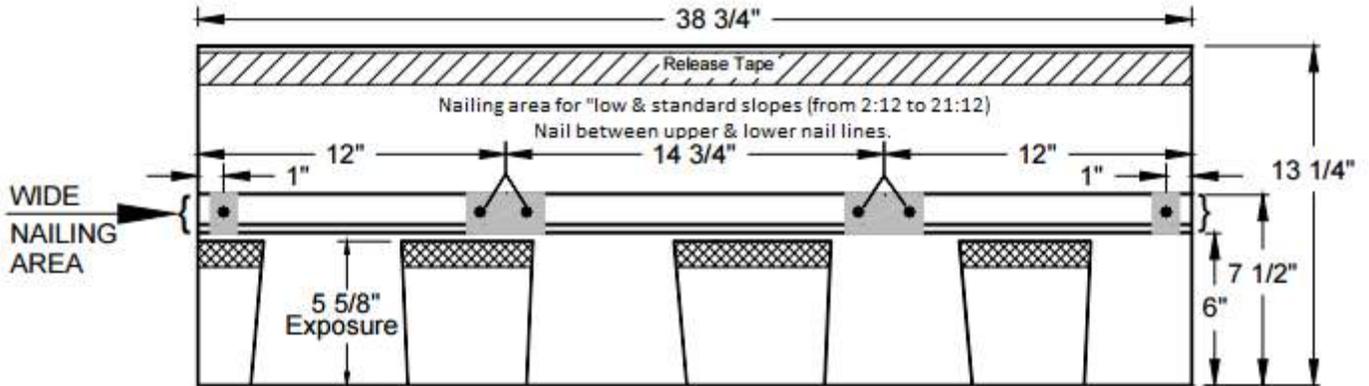


**LANDMARK, LANDMARK PRO, LANDMARK PRO/ARCHITECT 80, LANDMARK PREMIUM,  
LANDMARK IMPACT RESISTANT, LANDMARK SOLARIS, LANDMARK PRO SOLARIS AND  
LANDMARK SOLARIS GOLD/PLATINUM**



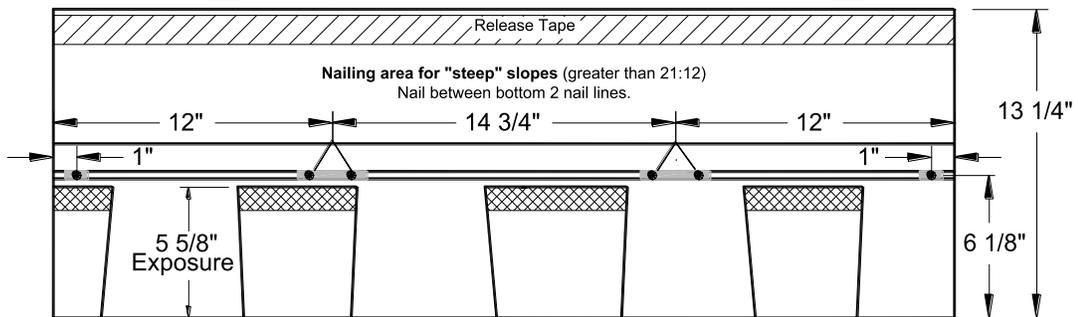
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**DETAIL B**



**LANDMARK, LANDMARK PRO, LANDMARK PRO/ARCHETECT 80, LANDMARK PREMIUM,  
LANDMARK IMPACT RESISTANT, LANDMARK SOLARIS, LANDMARK PRO SOLARIS AND  
LANDMARK SOLARIS GOLD/PLATINUM**

**(LOW AND STANDARD SLOPE)**



**LANDMARK, LANDMARK PRO, LANDMARK PRO/ARCHETECT 80, LANDMARK PREMIUM,  
LANDMARK IMPACT RESISTANT, LANDMARK SOLARIS, LANDMARK PRO SOLARIS AND  
LANDMARK SOLARIS GOLD/PLATINUM**

**(STEEP SLOPE)**

**END OF THIS ACCEPTANCE**

