

## HISTORIC AND DESIGN REVIEW COMMISSION

March 06, 2019

**HDRC CASE NO:** 2019-096  
**ADDRESS:** 808 E CARSON  
**LEGAL DESCRIPTION:** NCB 1266 BLK 2 LOT 2  
**ZONING:** RM-4, H  
**CITY COUNCIL DIST.:** 2  
**DISTRICT:** Government Hill Historic District  
**APPLICANT:** Peggy Brimhall/Figurd  
**OWNER:** 1807 Land & Cattle Co. LLC  
**TYPE OF WORK:** Amendment of a previously approved design regarding window materials  
**APPLICATION RECEIVED:** February 18, 2019  
**60-DAY REVIEW:** April 19, 2019  
**REQUEST:**

The applicant is requesting a Certificate of Appropriateness for approval to amend the previously approved design regarding window materials. The applicant has proposed to install aluminum windows in lieu of the previously approved aluminum clad wood windows.

### APPLICABLE CITATIONS:

*Historic Design Guidelines, Chapter 4, Guidelines for New Construction*

### 3. Materials and Textures

#### A. NEW MATERIALS

- i. *Complementary materials*—Use materials that complement the type, color, and texture of materials traditionally found in the district. Materials should not be so dissimilar as to distract from the historic interpretation of the district. For example, corrugated metal siding would not be appropriate for a new structure in a district comprised of homes with wood siding.
- ii. *Alternative use of traditional materials*—Consider using traditional materials, such as wood siding, in a new way to provide visual interest in new construction while still ensuring compatibility.
- iii. *Roof materials*—Select roof materials that are similar in terms of form, color, and texture to traditionally used in the district.
- iv. *Metal roofs*—Construct new metal roofs in a similar fashion as historic metal roofs. Refer to the Guidelines for Alterations and Maintenance section for additional specifications regarding metal roofs.
- v. *Imitation or synthetic materials*—Do not use vinyl siding, plastic, or corrugated metal sheeting. Contemporary materials not traditionally used in the district, such as brick or simulated stone veneer and Hardie Board or other fiberboard siding, may be appropriate for new construction in some locations as long as new materials are visually similar to the traditional material in dimension, finish, and texture. EIFS is not recommended as a substitute for actual stucco.

### FINDINGS:

- a. The applicant is requesting a Certificate of Appropriateness for approval to amend the previously approved design regarding window materials. The applicant has proposed to install aluminum windows in lieu of the previously approved aluminum clad wood windows. The request for new construction at 808 E Carson received final approval from the Historic and Design Review Commission on November 7, 2018.
- b. **WINDOWS** – The applicant has noted the installation of aluminum, one over one windows. Staff finds that a double-hung, one-over-one wood windows or aluminum-clad wood windows be used. Meeting rails must be no taller than 1.25” and stiles no wider than 2.25”. White manufacturer’s color is not allowed, and color selection must be presented to staff. There should be a minimum of two inches in depth between the front face of the window trim and the front face of the top window sash. This must be accomplished by recessing the window sufficiently within the opening or with the installation of additional window trim to add thickness. Window trim must feature traditional dimensions and architecturally appropriate sill detail. Window track components must be painted to match the window trim or concealed by a wood window screen set within the opening.
- c. **WINDOW DETAIL** – The previously approved construction document set notes an installation depth of

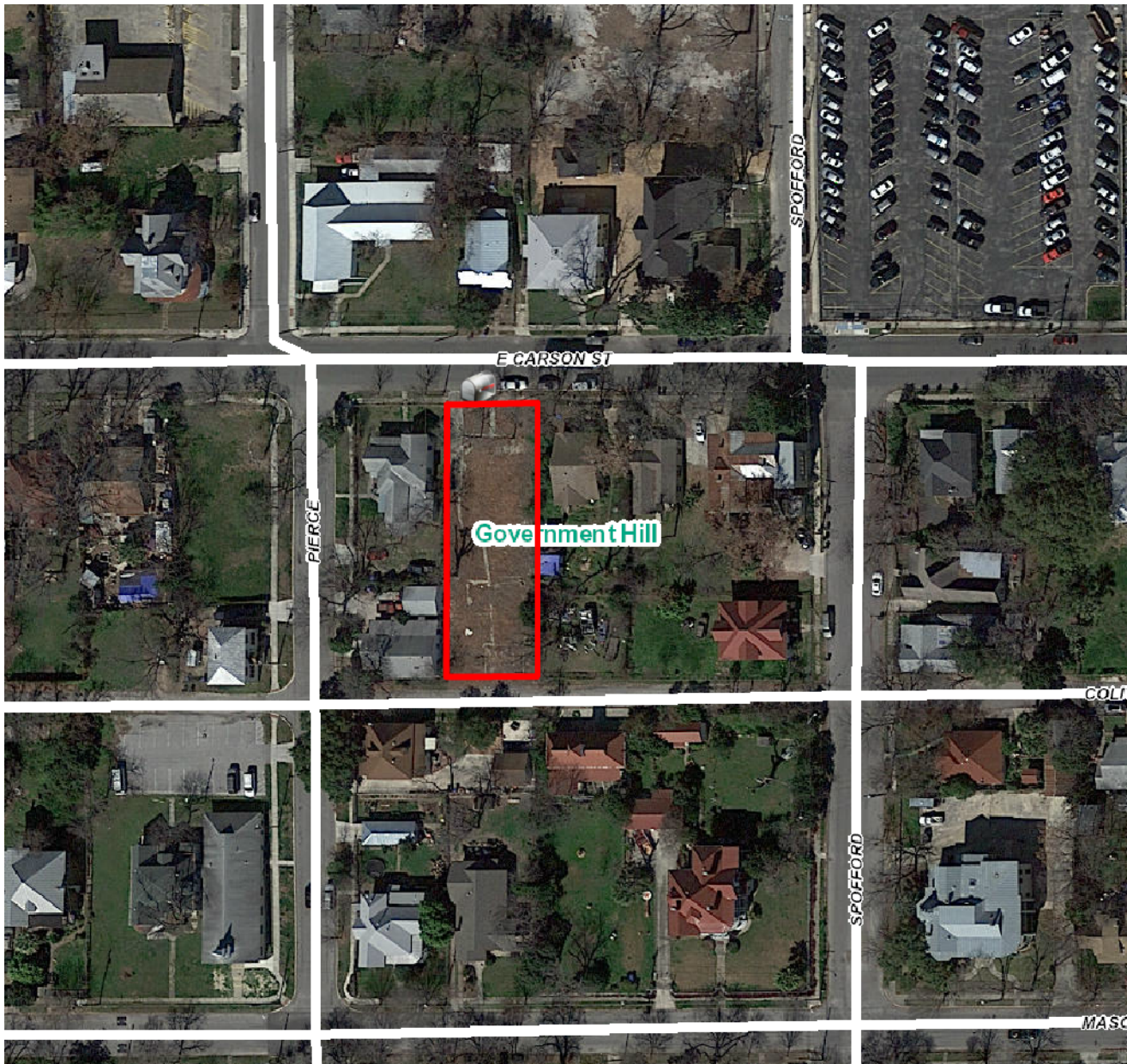
approximately three (3) inches.

**RECOMMENDATION:**

Staff recommends that the applicant install a wood or aluminum clad wood windows that meet the specifications outlined in finding b. If an aluminum window is approved by the Commission, the specifications noted in finding b in regards to meeting rail and stile dimensions, installation depth, trim and sill profiles and window colors should be added.

**CASE MANAGER:**

Edward Hall



## Flex Viewer

Powered by ArcGIS Server

Printed: Dec 15, 2017

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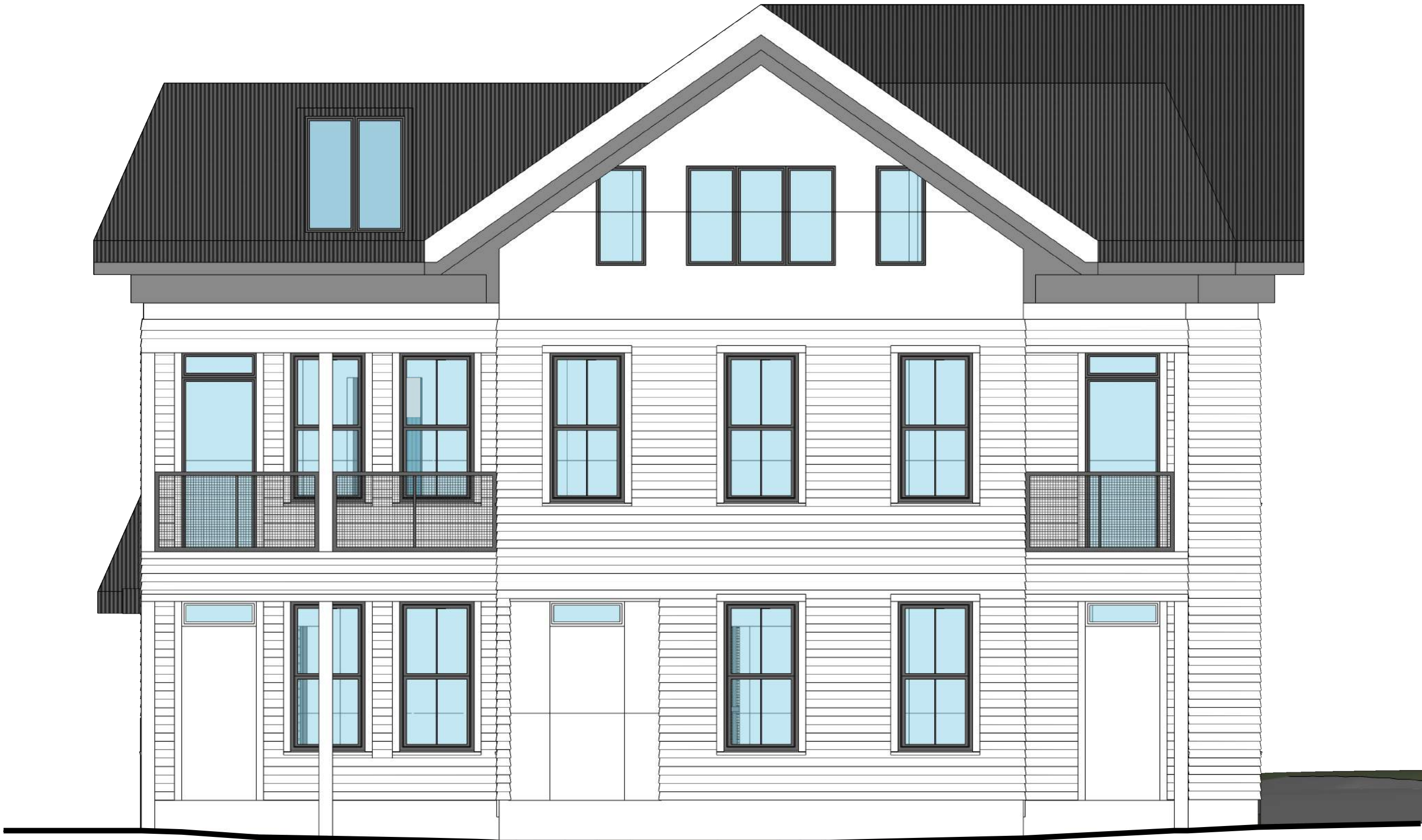




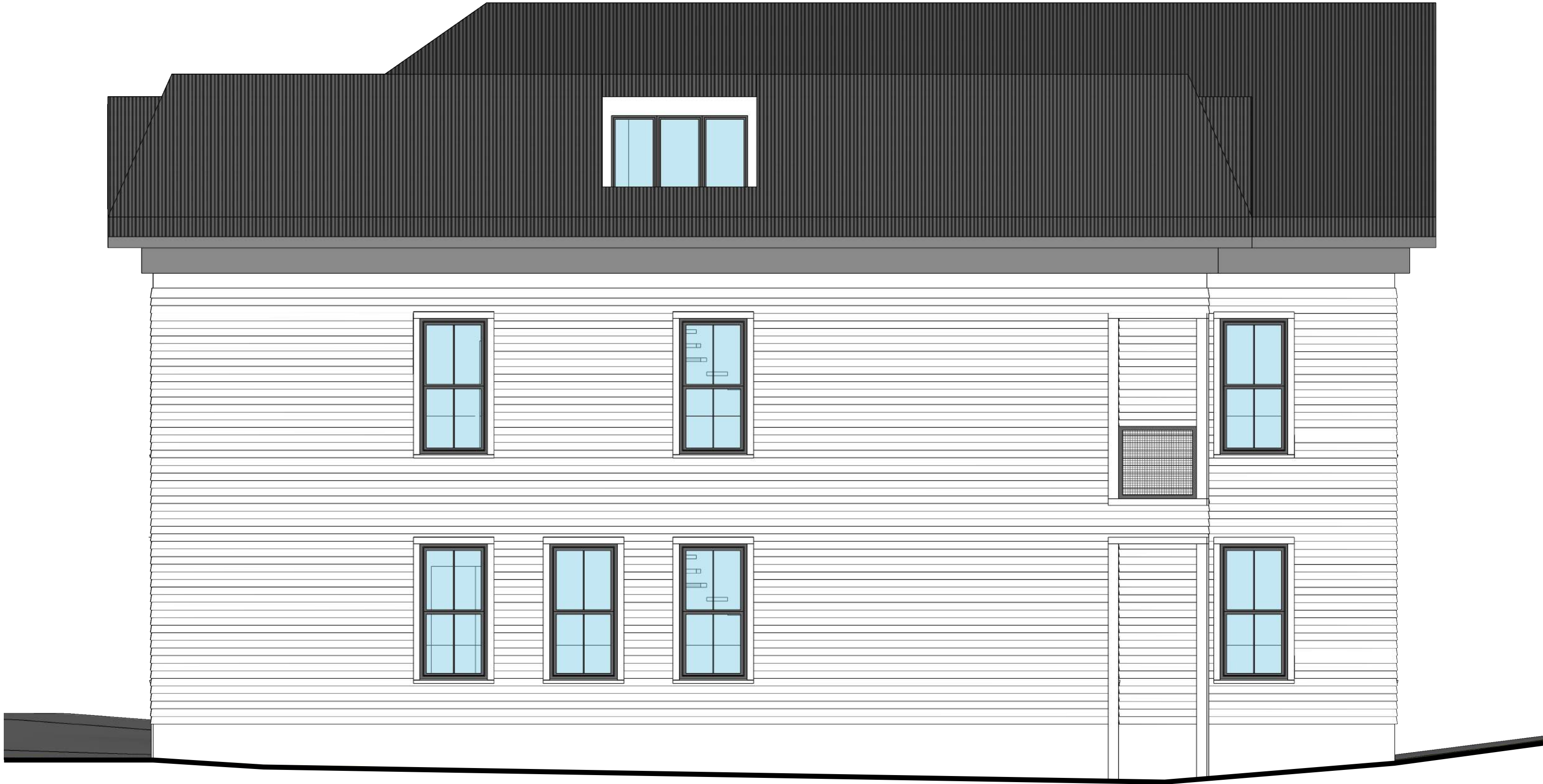
808 East Carson

Carson Street  
Christian Church





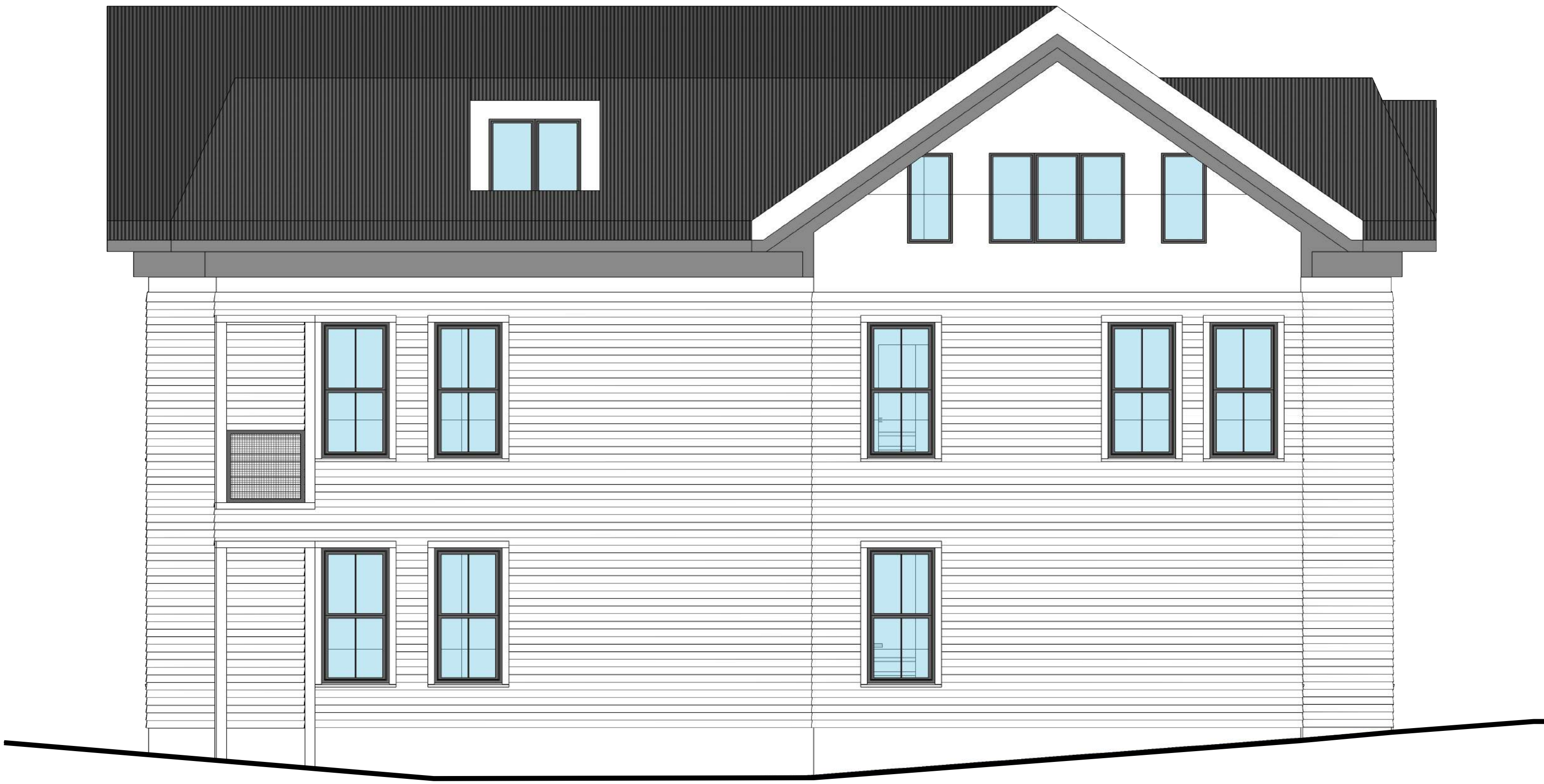
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2 EAST ELEVATION  
A2.0 SCALE 1/4" = 1'-0"



3 SOUTH ELEVATION  
A2.0 SCALE 1/4" = 1'-0"



4 WEST ELEVATION  
A2.0 SCALE 1/4" = 1'-0"



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808 E Carson  
808 E Carson Street  
San Antonio, Texas, 78208  
APN: XXX-XX-XXX

Issue Dates:  
10/12/2018  
HDRC Final Approval

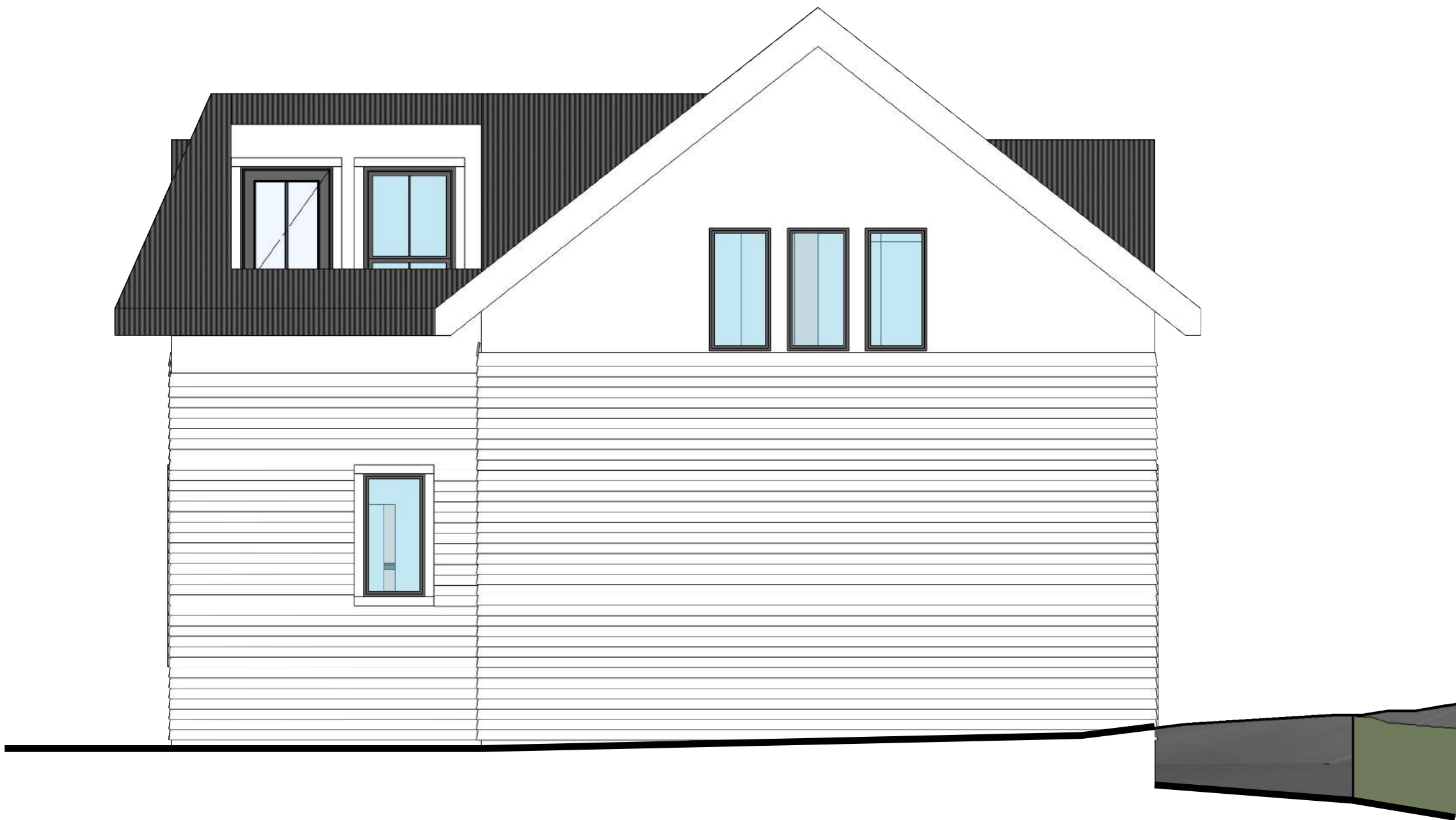
Revisions  
No. Date Remark

Project Number:  
201801

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Triplex  
Elevations

Sheet Number:  
A2.0

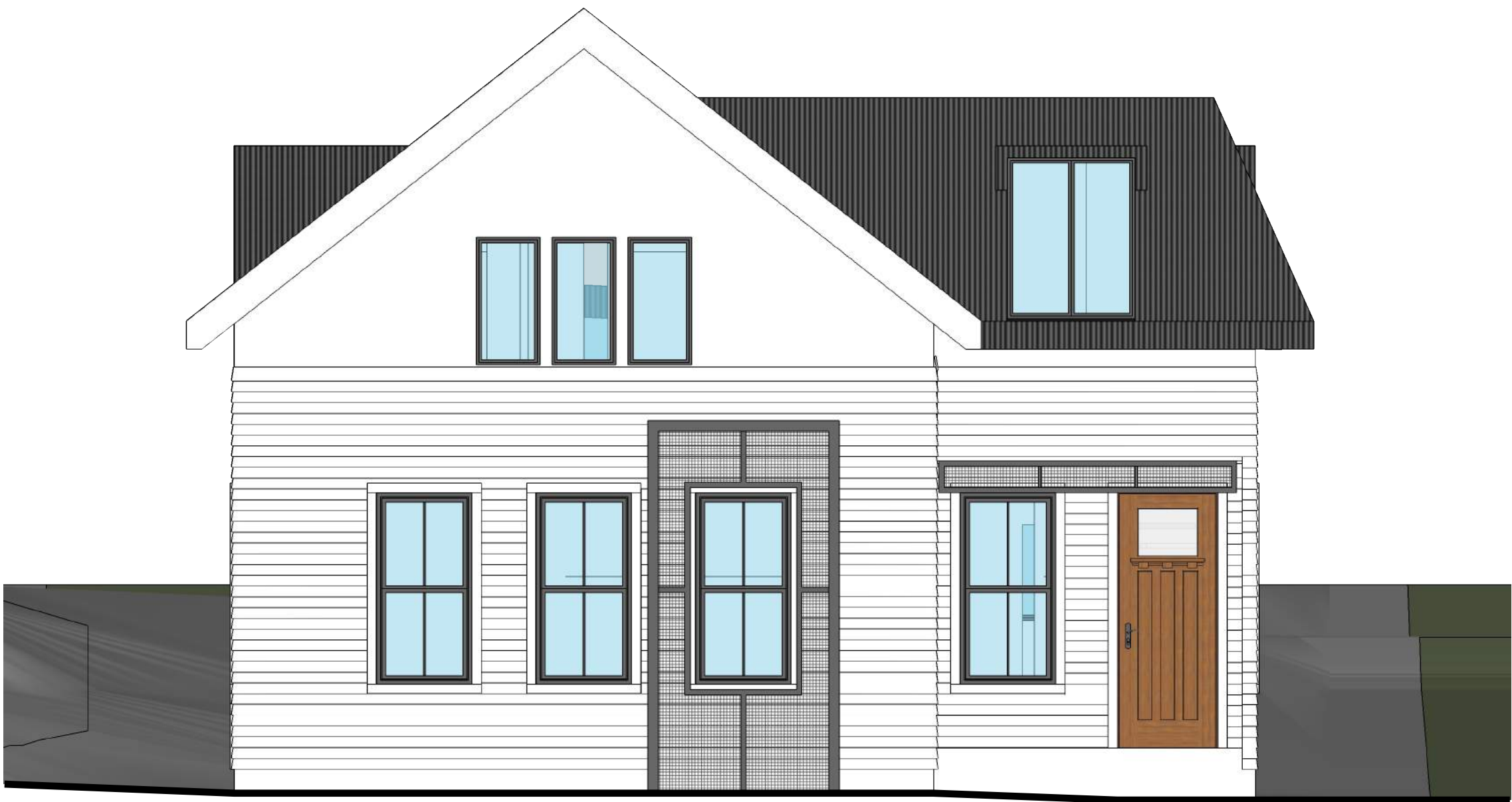




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A2.2 SCALE 1/4" = 1'-0"



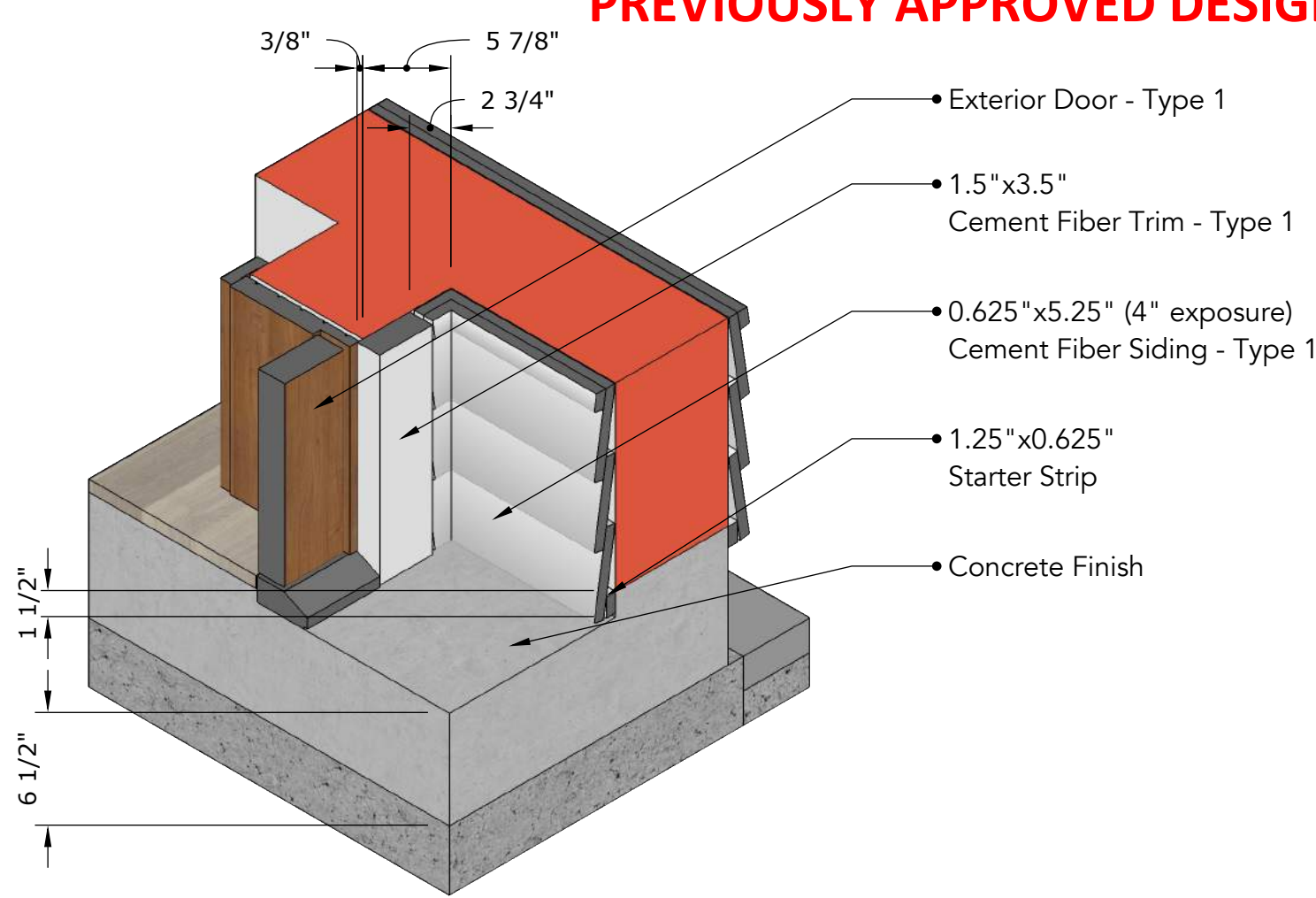
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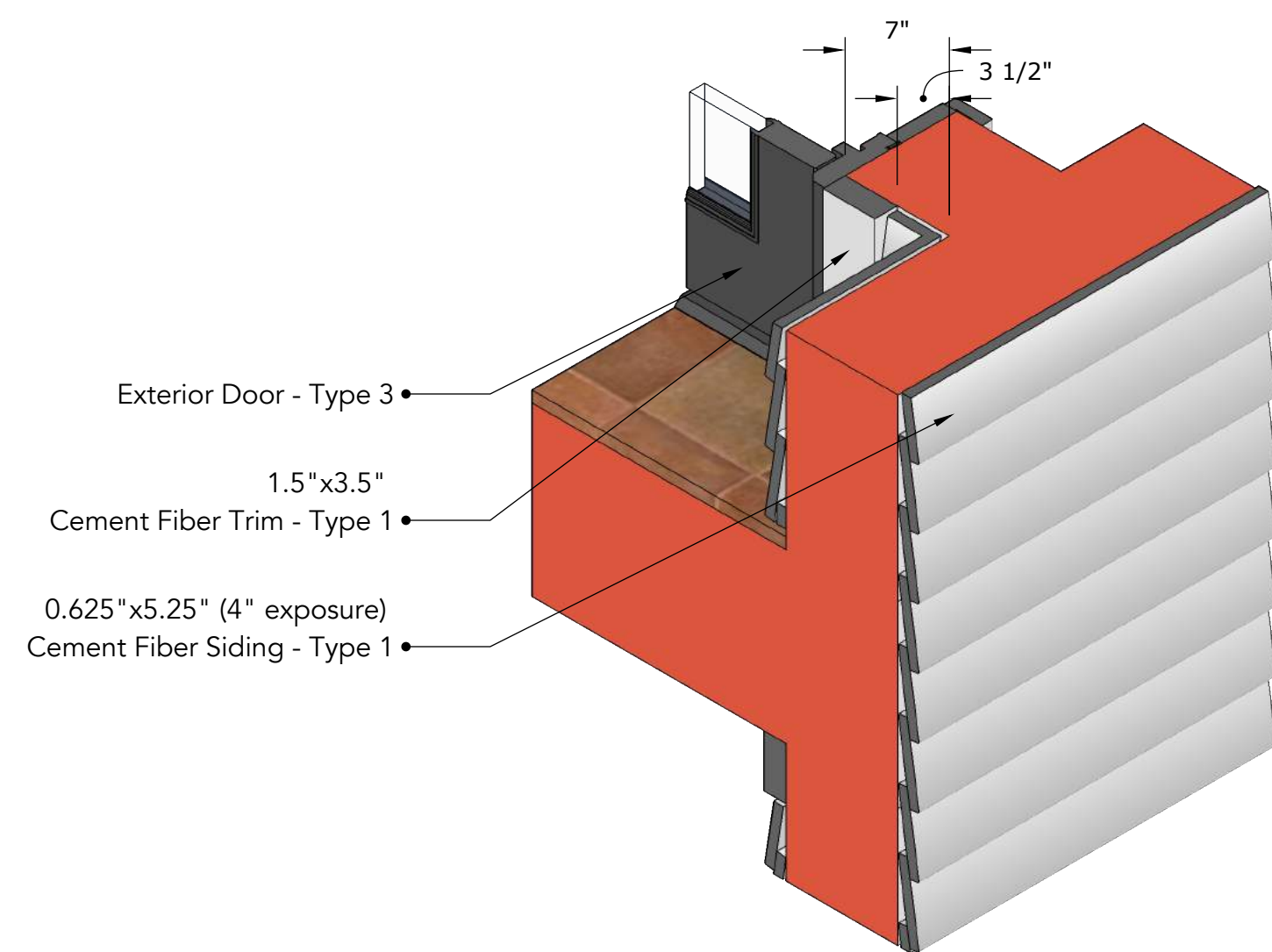
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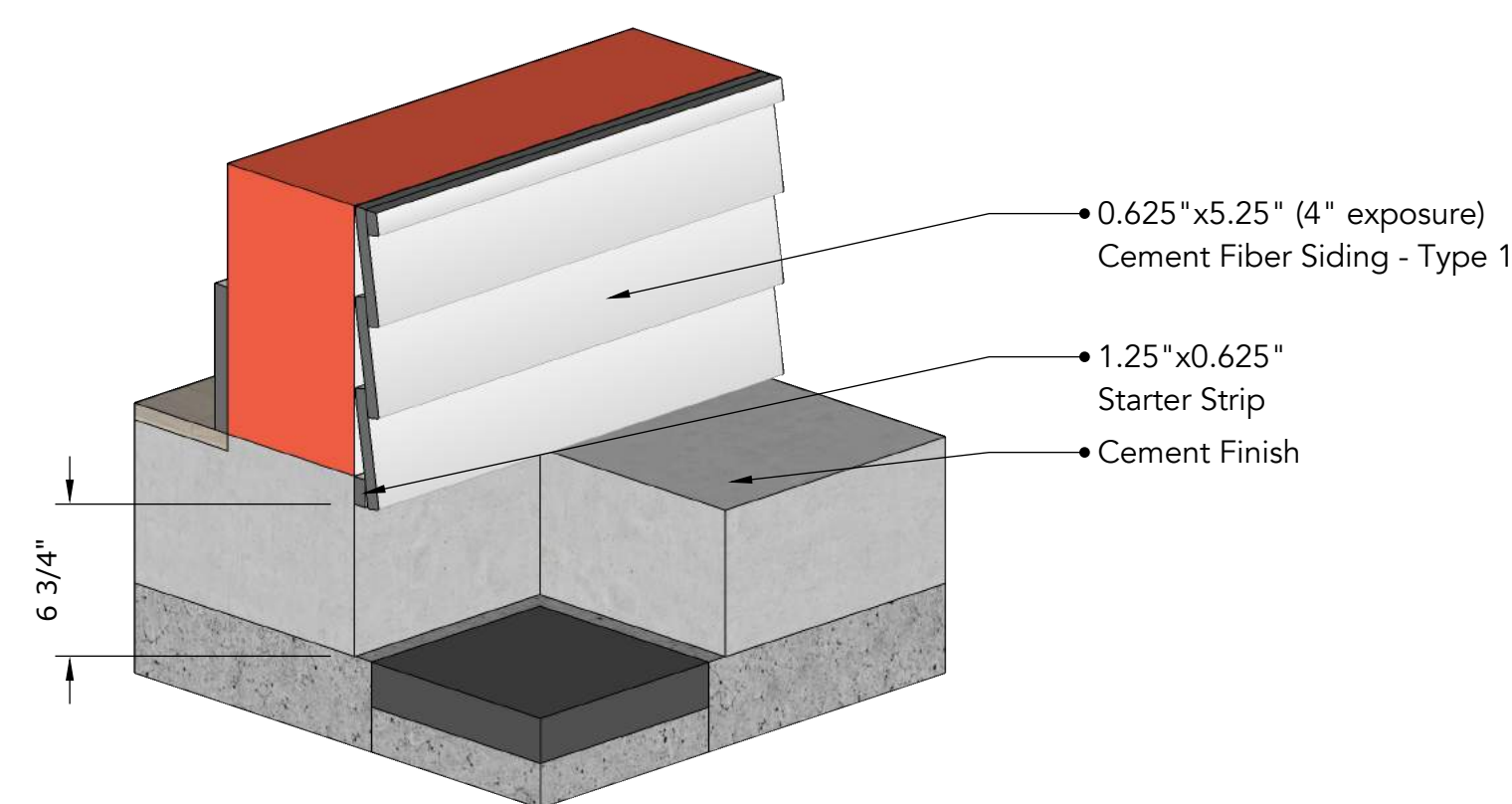
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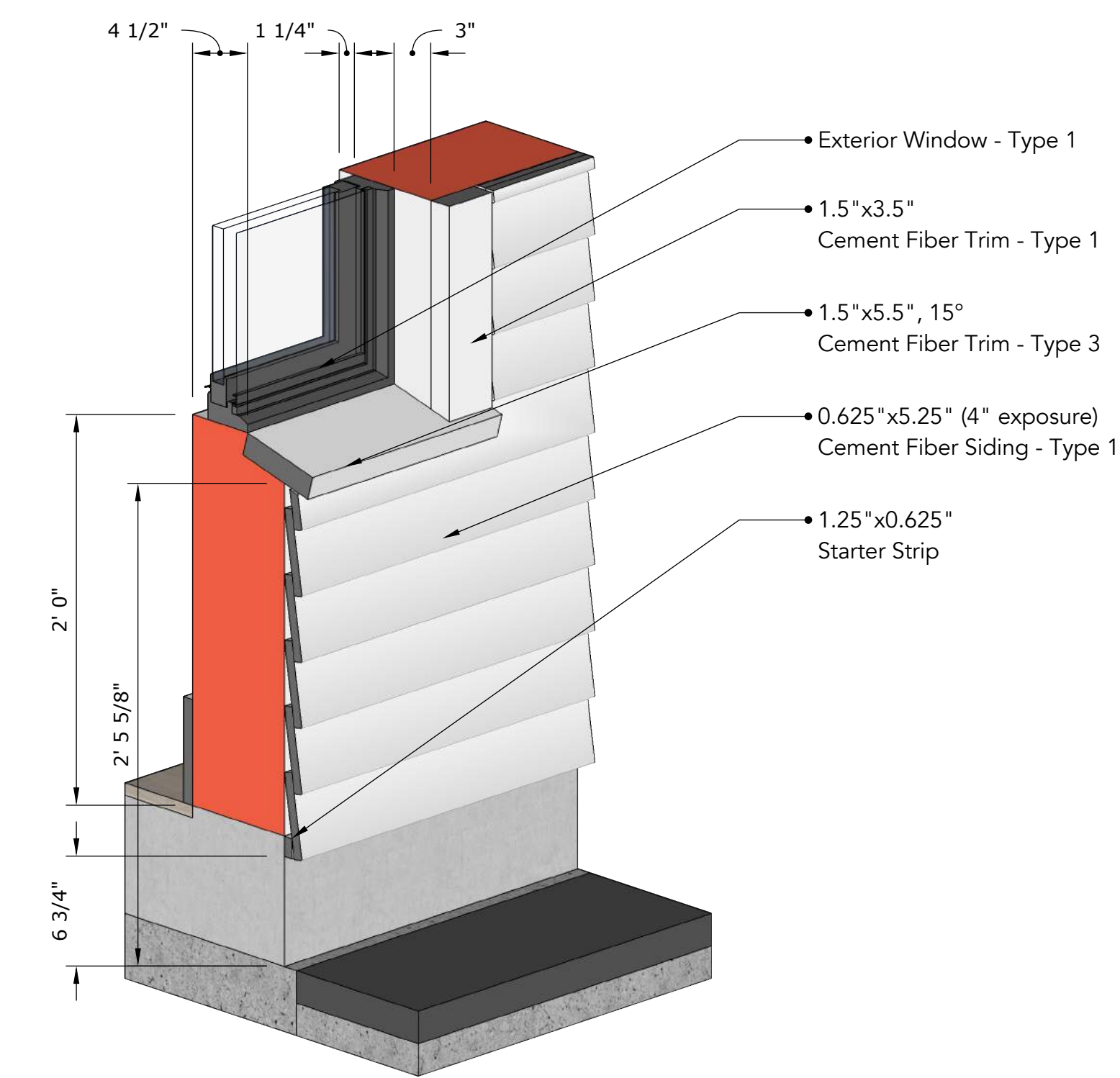
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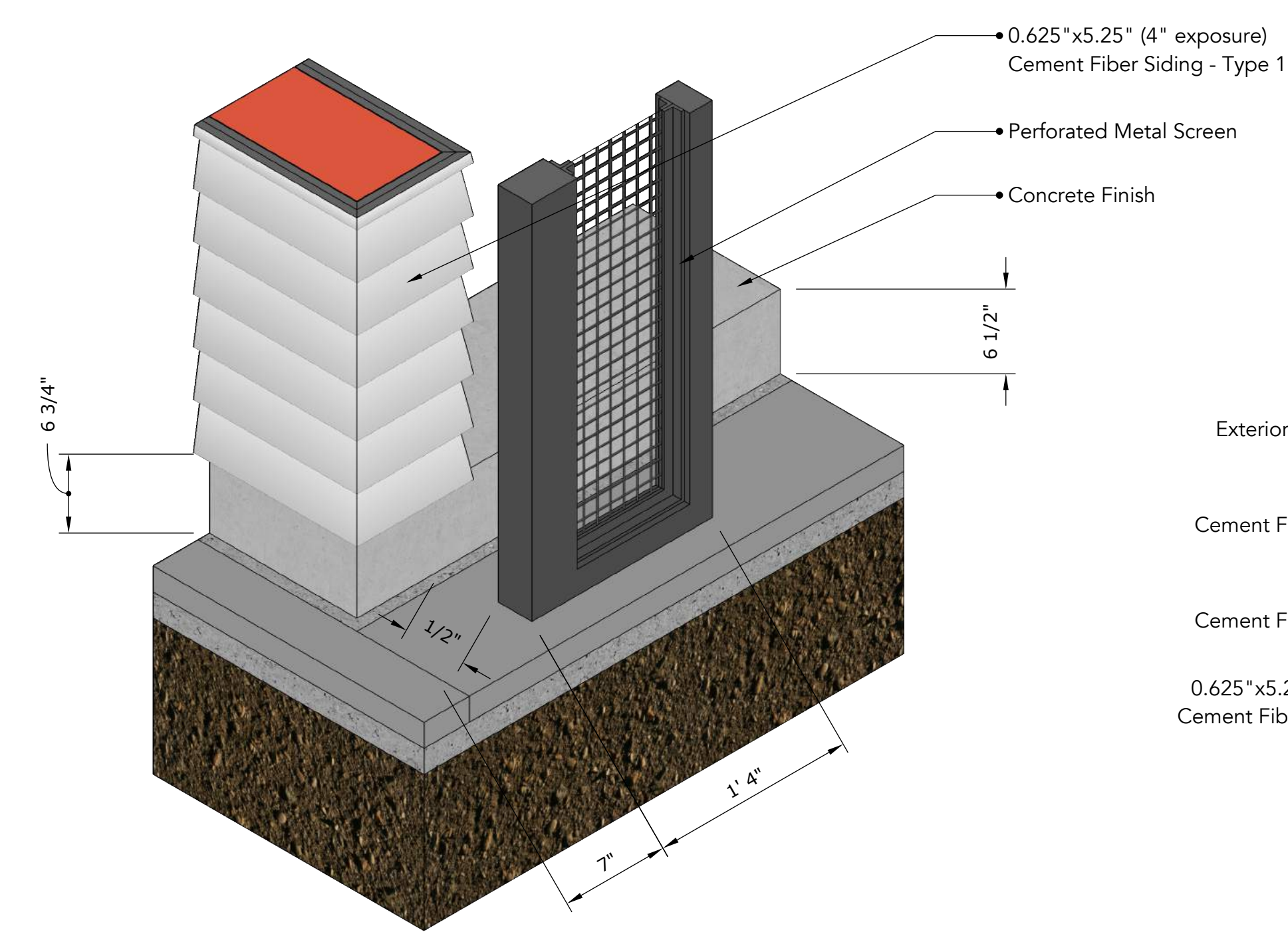
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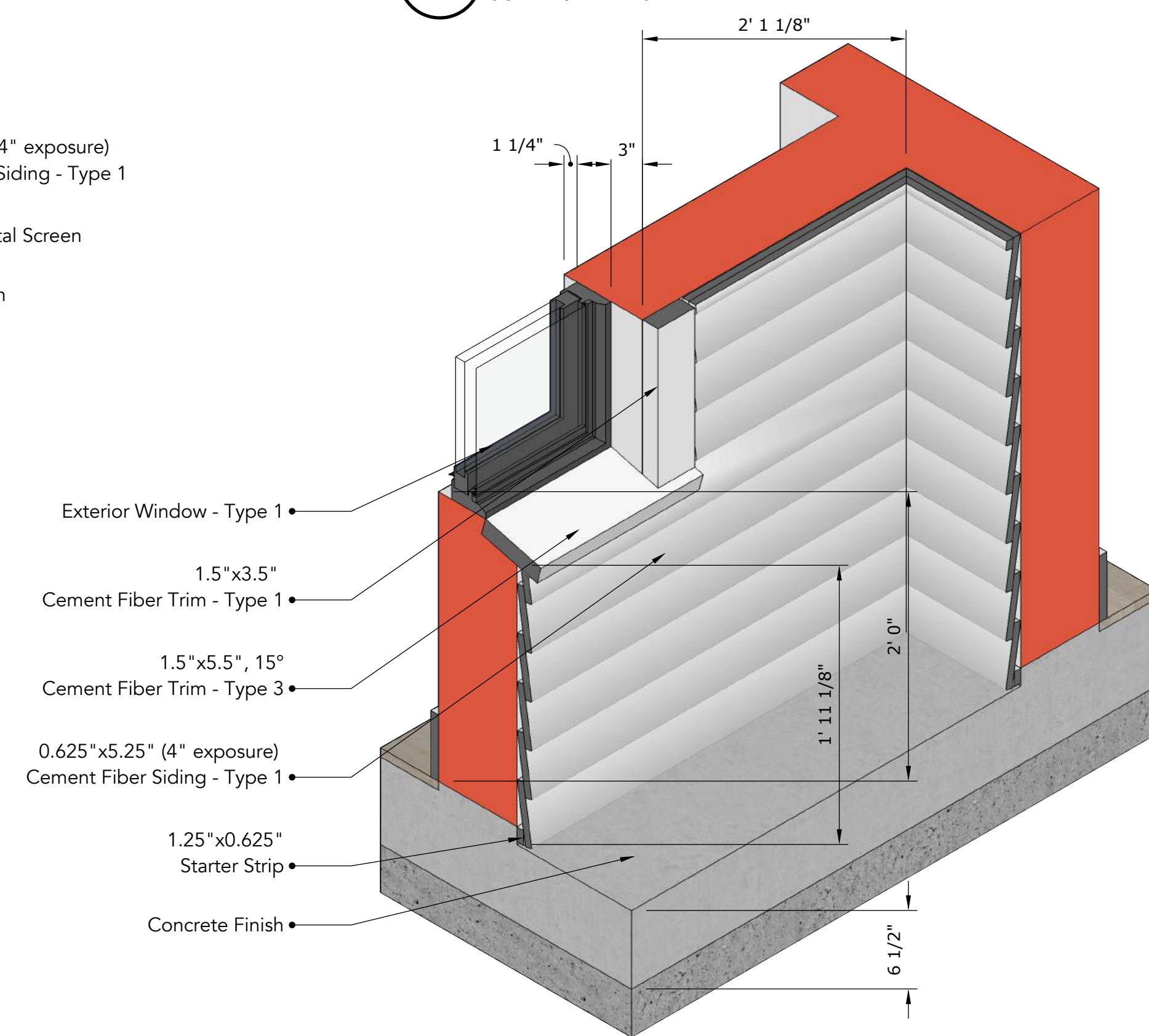
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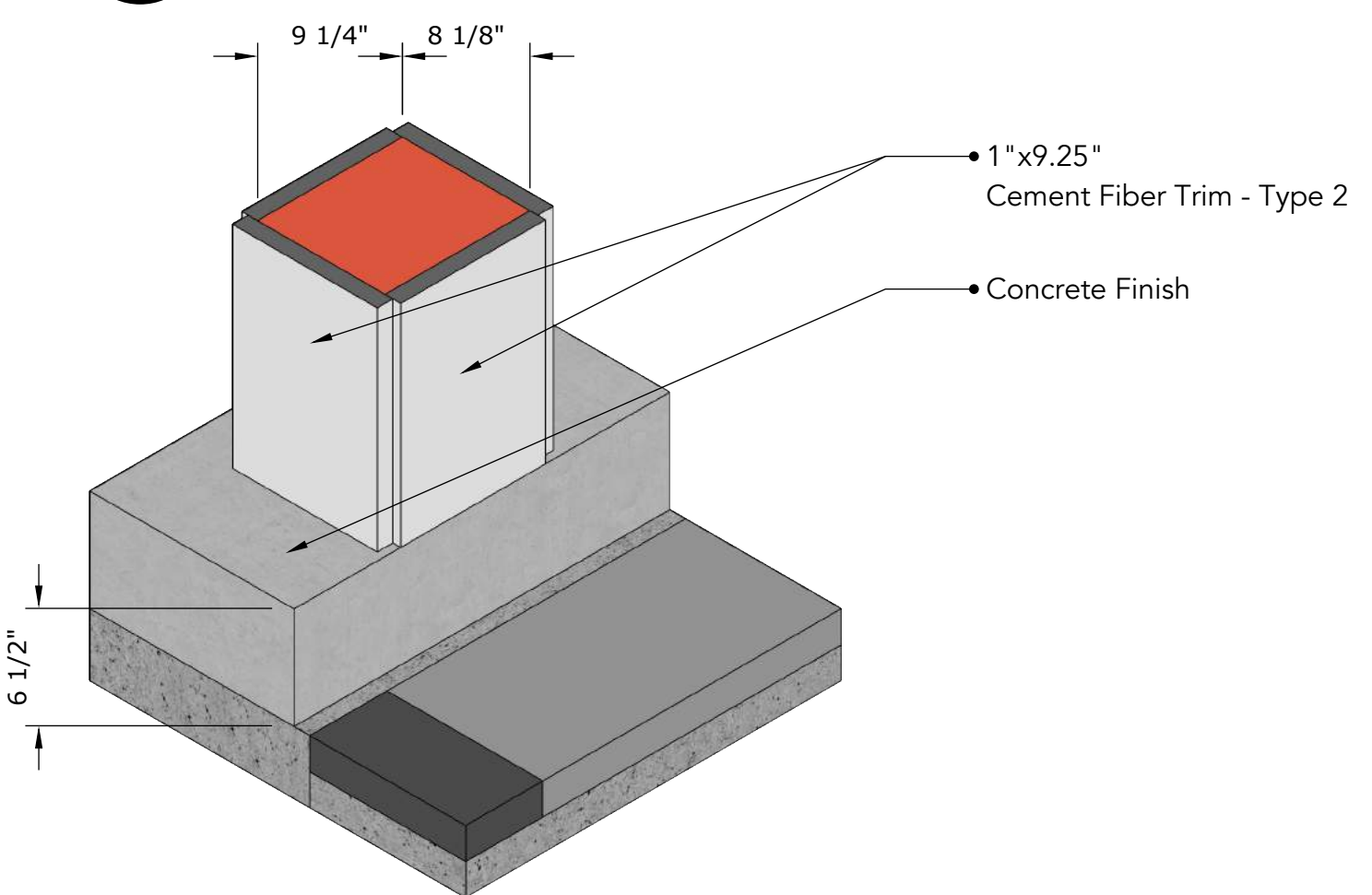
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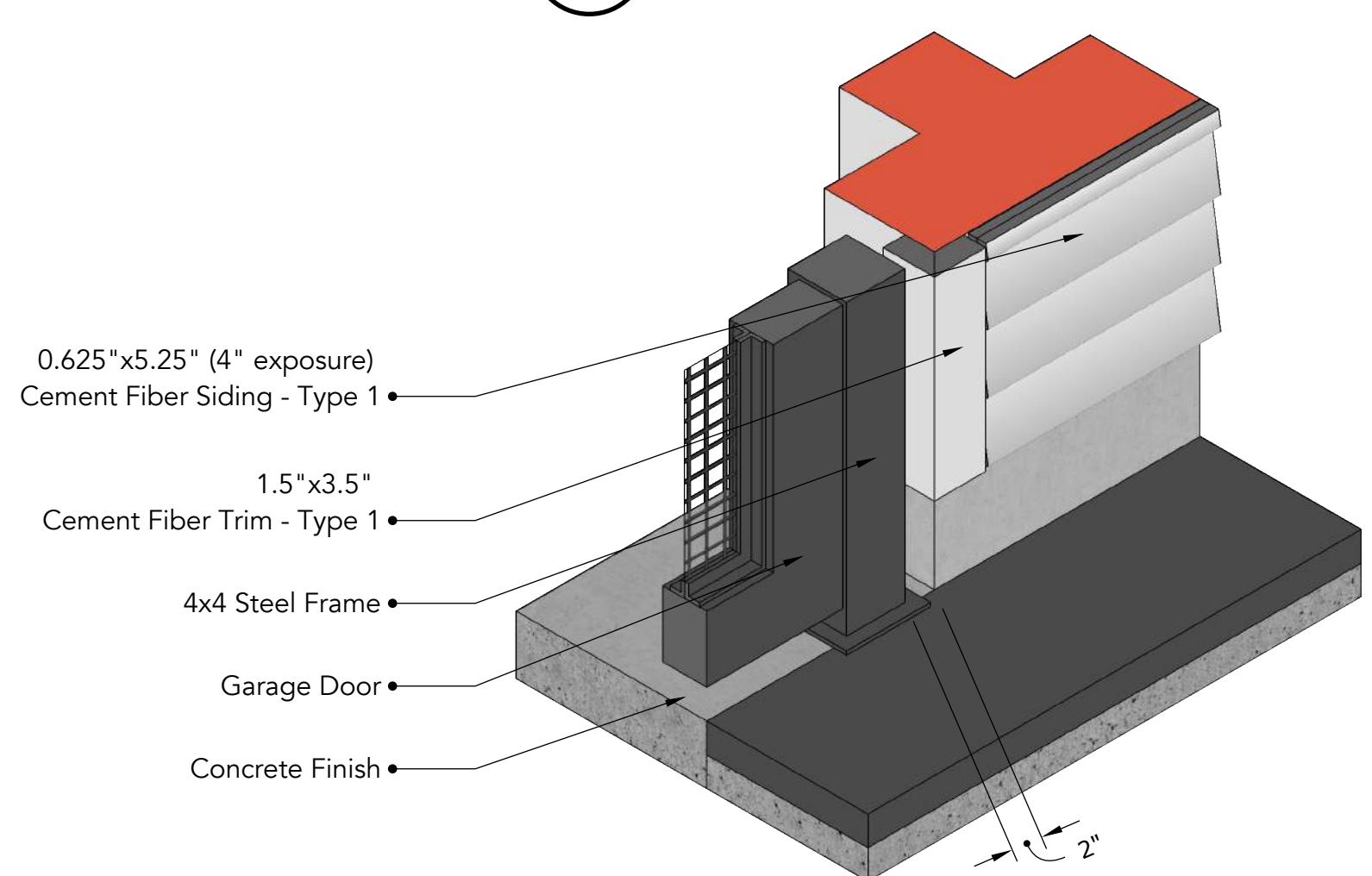
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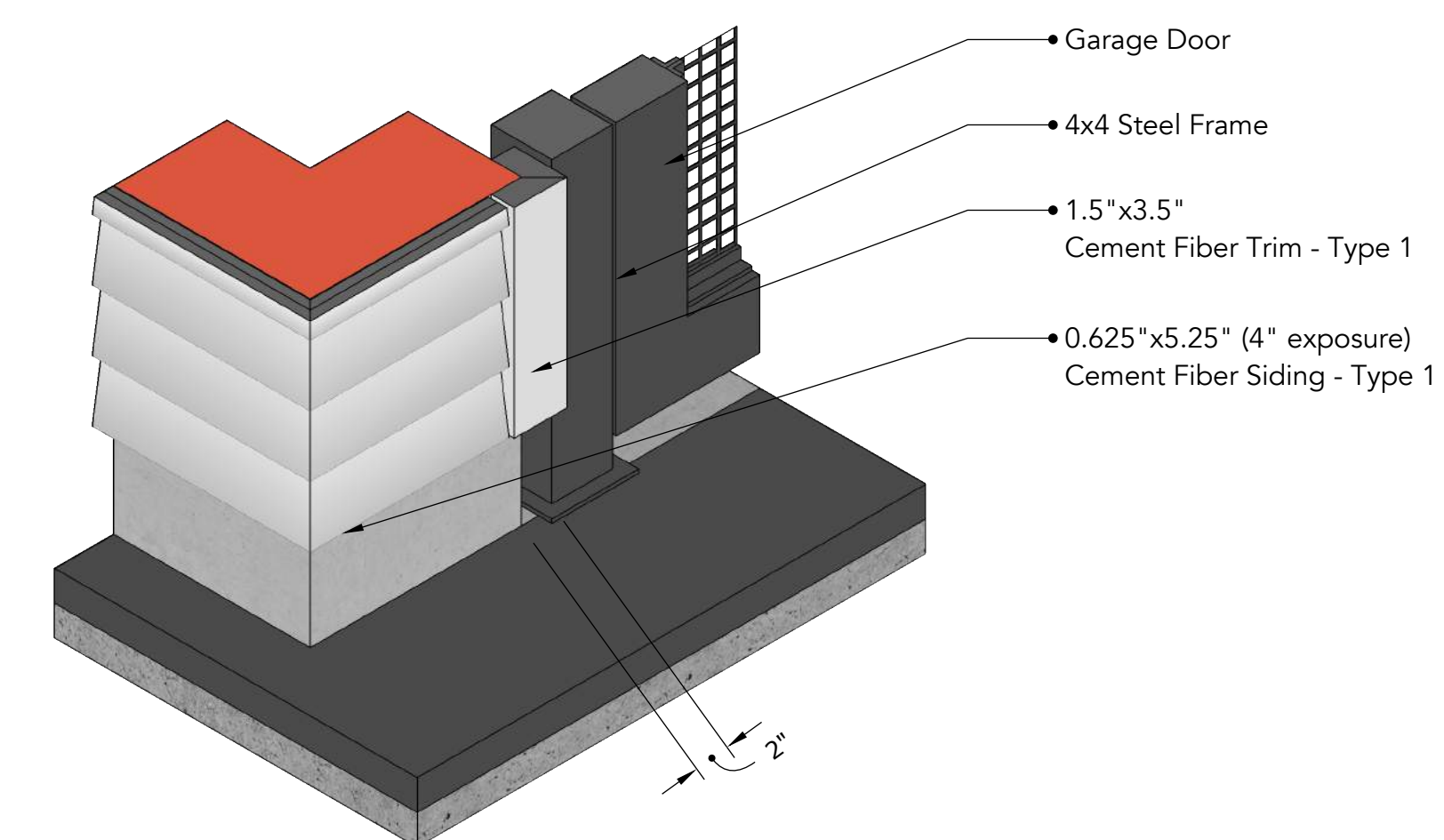
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7 DETAIL 7  
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8 DETAIL 8  
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9 DETAIL 9  
A7.0 SCALE 1/2" = 1'-0"



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Revisions	
No.	Remark

Project Number:  
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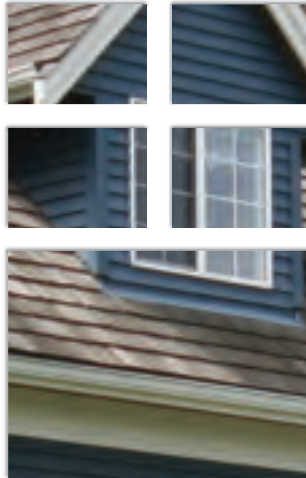
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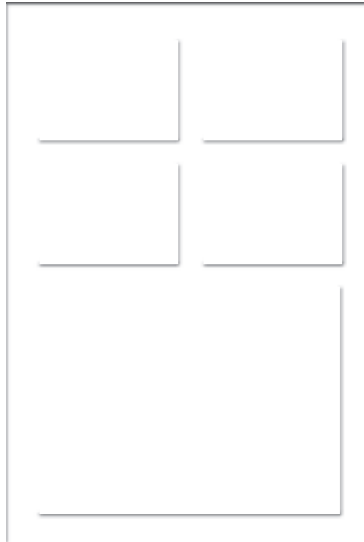


## ALUMINUM PRODUCTS



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**It's more than a window. It's a whole new point of view.** At Ply Gem Windows, we have a different view for the way the window business should be run. We believe you should have access to all of the top quality styles and brands across the country. That's why we've taken our entire portfolio of brands, brands that you know and trust, and given them one name – Ply Gem Windows. With this one name comes a lot of big advantages, starting with a national manufacturing and distribution network. Pair that with our commitment to customer service, sustainable practices and wide variety of window styles that fit all of your design needs, and you'll get the right window for every project and every budget.



And, because we're part of the Ply Gem family, you know you'll always have access to leading brands. Windows, doors, siding and accessories, stone veneer, fence and rail, rainware, shutters and designer accents, we have something for every project. We work with residential builders, remodelers, architects, distributors and dealers to help build sales. When you combine over 50 years of experience, industry-leading customer service, and trusted local relationships you've got a company you can count on. **Ply Gem. Building products.**

**Building success.**







TABLE OF CONTENTS

3710 Series Single Hung..... 6

3752/53 Series Single Hung.....8

3724 Series Sliding Window..... 10

3780 Sliding Patio Door ..... 12

4710/4712 Series Single Hung..... 14

4720 Series Sliding Window..... 16

4780 Sliding Patio Door ..... 18

4810F/4812F Single Hung .....20

4820F Series Sliding Window.....22

NFRC Thermal Performance Data..... 24

Glass Options, Screens and Low-E .....26

Impact Rated .....27

Architectural Shapes..... 28

Grille Patterns and Options ..... 29

Hardware and Color Options.....30





**More value. More performance. More solutions.**

If you're looking for a window that delivers the best possible performance at the best possible value, look no further than Ply Gem Windows Builder Series. It's energy-efficient, virtually maintenance-free and can withstand the toughest tests, including the test of time. Combine that quality with our commitment to customer service and you've got a company that knows how to deliver exactly what you want.



A WHOLE NEW POINT OF VIEW.





## **3710 SERIES SINGLE HUNG**

### **BUILDER SERIES 3710 SERIES SINGLE HUNG**

aluminum windows are available in singles, twins, triples and stack options and a wide selection of architectural shapes.

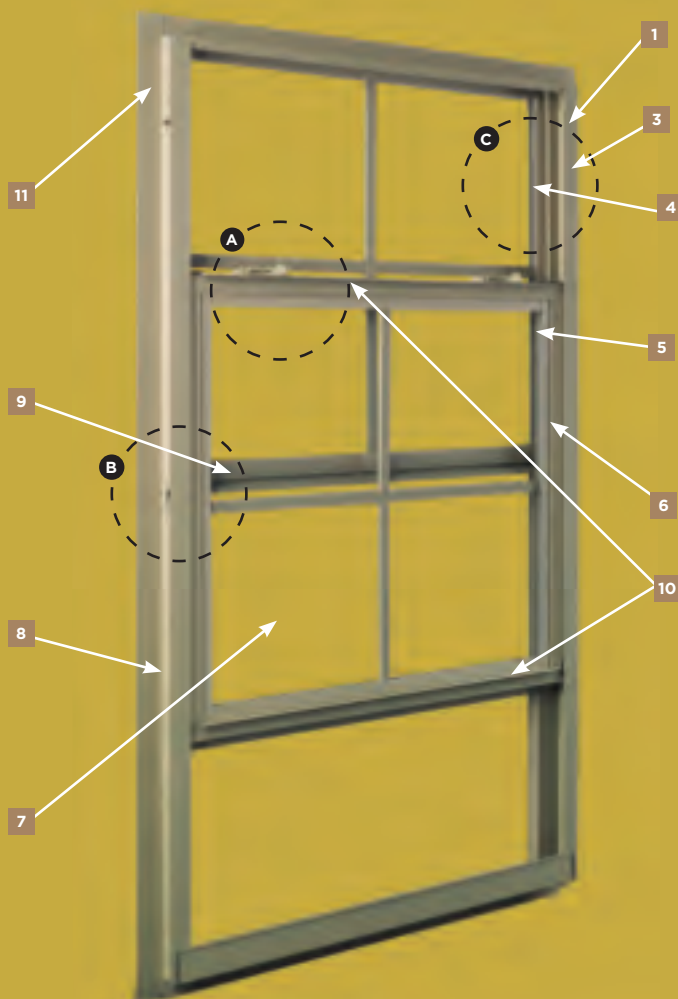


# 3710 SERIES SINGLE HUNG

ALUMINUM  
WINDOWS



EXTERIOR DETAIL



## FEATURES

- 1 Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- 2 Sloped sill allows for proper water drainage to the exterior
- 3 Sleek profile provides larger viewing area
- 4 Interior glazing allows for easier glass replacement
- 5 Side loading removable bottom sash
- 6 Block and tackle balance for smooth operation
- 7 Energy-efficient Warm Edge insulating glass for enhanced performance
- 8 2" or 2<sup>7</sup>/<sub>16</sub>" frame depth (see chart below)
- 9 Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit
- 10 Dual lift rails on bottom sash for easy operation
- 11 Integral nailing fin for simple installation



3710 series single hung windows are manufactured out of virtually maintenance-free extruded aluminum with a long-lasting electrostatically applied finish.

## SINGLE HUNG SELECTION GUIDE

SERIES	FRAME DEPTH	NAIL FIN SETBACK	CONSTRUCTION TYPE			
			WOOD SIDING	BRICK	3 COAT STUCCO	EIFS
3710	2"	7/8"	•	•	•	
3710N	2"	1 3/8"	•	•		•
3710F	2 7/16"	1 3/8"	•	•		•

A



Color-coordinated sash lock hardware

B



Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit

C



Block and tackle balance system for smooth operation

1. Optional Low-E upgrade for better performance. 2. Optional Low-E<sup>SC</sup> (solar cooling optimized) upgrade for increased performance. 3. Optional HP Glass upgrade combines Low-E with argon gas fill for high performance. 4. Optional HP<sup>SC</sup> Glass upgrade combines solar cooling optimized Low-E with argon gas fill for high performance.





## 3752/53 SERIES SINGLE HUNG

**BUILDER SERIES 3752/53 SERIES SINGLE HUNG**  
aluminum windows are available in singles, twins, triples and stack  
options and a wide selection of architectural shapes.



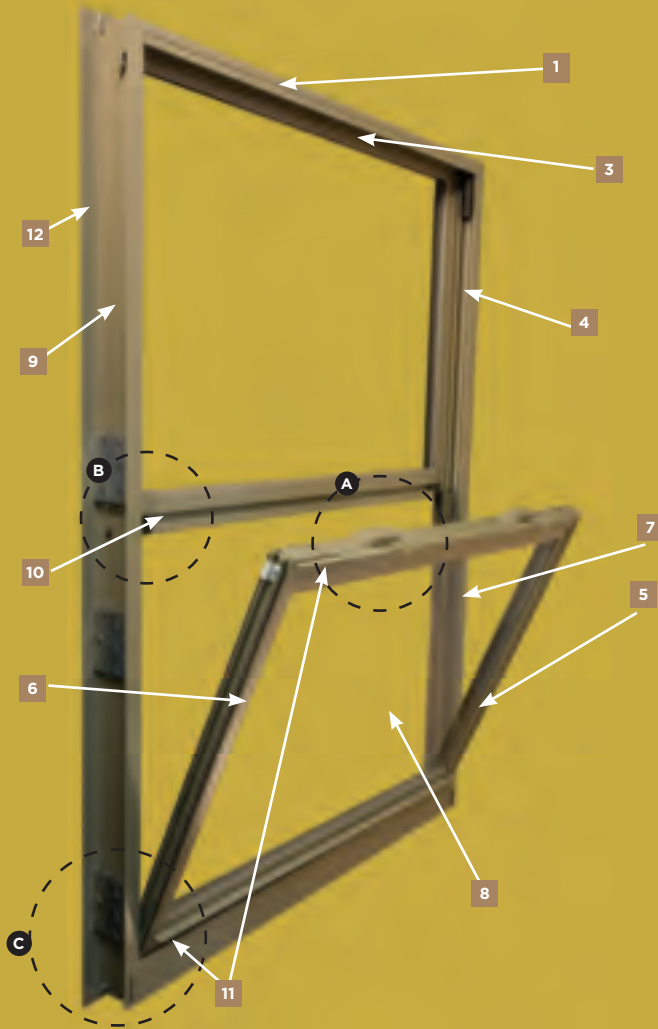
# 3752/53 SERIES SINGLE HUNG

ALUMINUM

WINDOWS



EXTERIOR DETAIL



## FEATURES

- 1 Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- 2 Sloped sill allows for proper water drainage to the exterior
- 3 Removable top sash
- 4 Sleek profile provides larger viewing area
- 5 Interior glazing allows for easier glass replacement
- 6 Bottom sash tilts in for easy cleaning and is removable
- 7 Block and tackle balance system for smooth operation
- 8 Energy-efficient Warm Edge insulating glass for enhanced performance
- 9 2" frame depth
- 10 Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit
- 11 Dual lift rails on bottom sash for easy operation
- 12 Flange (shown) or integral nailing fin for simple installation



3752/53 series single hung windows are designed for high wind zones and are Florida approved. They are manufactured out of virtually maintenance-free extruded aluminum with a long-lasting electrostatically applied finish.

## 3752/53 SERIES SINGLE HUNG SELECTION GUIDE

SERIES	NAIL FIN SET BACK	THERMALLY ENHANCED FRAME	HIGH WIND ZONE	FLORIDA APPROVED	CONSTRUCTION TYPE			
					WOOD SIDING	BRICK	3 COAT STUCCO	BLOCK
3752	7/8"				•	•	•	
3752T	7/8"	•			•	•	•	
3753	7/8"		•	•	•	•	•	
3753FL	FLANGE		•	•				•

A



Color-coordinated sash lock and tilt latch hardware

B



Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit

C



Dual lift rails on bottom sash for easy operation

1. Optional Low-E upgrade for better performance. 2. Optional Low-ESc (solar cooling optimized) upgrade for increased performance. 3. Optional HP Glass upgrade combines Low-E with argon gas fill for high performance. 4. Optional HPSC Glass upgrade combines solar cooling optimized Low-E with argon gas fill for high performance. 5. Meets Florida building codes for certain zones. Consult your local codes for specific requirements.





## 3724 SERIES SLIDING WINDOW

**BUILDER SERIES 3724 SERIES ALUMINUM  
SLIDING WINDOWS** are available in two different  
picture configurations ( $\frac{1}{4}$ - $\frac{1}{2}$ - $\frac{1}{4}$  or  $\frac{1}{3}$ - $\frac{1}{3}$ - $\frac{1}{3}$ ).

# 3724 SERIES SLIDING WINDOW



## FEATURES

- 1 Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- 2 Removable sash
- 3 Sleek profile provides larger viewing area
- 4 Interior glazing allows for easier glass replacement
- 5 Energy-efficient Warm Edge insulating glass
- 6 2" frame depth
- 7 Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit
- 8 Push rail located at meeting rail
- 9 Integral nailing fin (shown) or flange for simple installation



3724 series sliding windows are manufactured out of virtually maintenance-free extruded aluminum with a long-lasting electrostatically applied finish. 3724N and 3724FL are designed for high wind zones and are Florida approved.

## SLIDING WINDOW SELECTION GUIDE

SERIES	NAIL FIN SETBACK	HIGH WIND ZONE	FLORIDA APPROVED	CONSTRUCTION TYPE				
				WOOD SIDING	BRICK	3 COAT STUCCO	BLOCK	EIFS
3724	7/8"		●	●	●	●		
3724N	1 3/8"	●	●	●	●			●
3724FL	FLANGE	●	●				●	

A



Integral nailing fin (shown) or flange for simple installation

B



Push rail located at meeting rail

C



Color-coordinated sash lock hardware

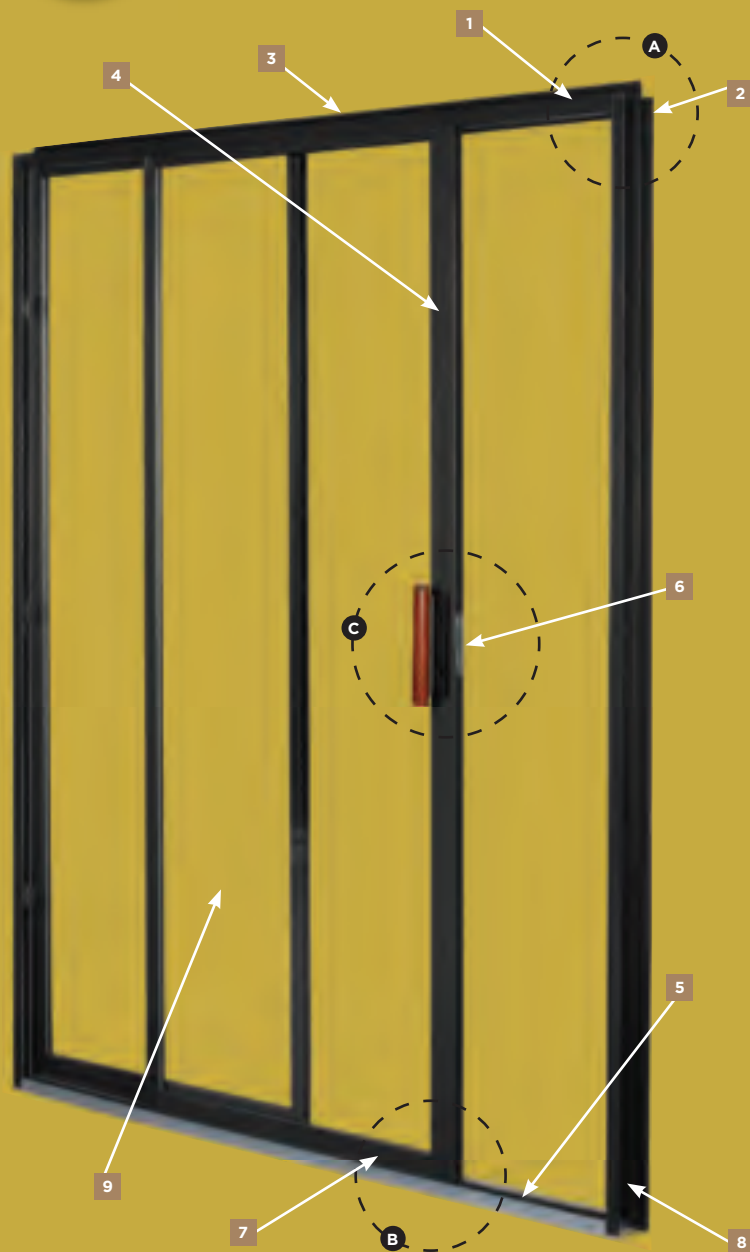
1. Optional Low-E upgrade for better performance. 2. Optional Low-E<sup>SC</sup> (solar cooling optimized) upgrade for increased performance. 3. Optional HP Glass upgrade combines Low-E with argon gas fill for high performance. 4. Optional HP<sup>SC</sup> Glass upgrade combines solar cooling optimized Low-E with argon gas fill for high performance. 5. Optional Warm Edge+ spacer system for enhanced performance. 6. Meets Florida building codes for certain zones. Consult your local codes for specific requirements.





## 3780 SLIDING PATIO DOOR

**BUILDER SERIES 3780 ALUMINUM SLIDING PATIO DOORS** are available with matching side lites, fixed panels, transoms, segmented transoms and a wide selection of architectural shapes.



## FEATURES

- 1 Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- 2 Integral nailing fin for simple installation
- 3 Assembled or knockdown frame available
- 4 Reversible (before installation)
- 5 Stainless steel track cover allows for trouble-free active panel operation
- 6 Mortise or clam lockset – stylish, functional and adjustable
- 7 Adjustable tandem rollers for a more effortless operation and fine tuning the fit and operation
- 8 Frame depth available in  $3\frac{5}{8}$ " or  $5\frac{13}{16}$ "
- 9 Energy-efficient Warm Edge insulating tempered glass



Sliding patio doors are reversible before installation. They are constructed with full-perimeter weatherstripping for a tight seal. Exterior handles are available with or without keyed lock.

A



Virtually maintenance-free extruded aluminum construction with integral nail fin and electrostatically applied finish

B



Stainless steel track cover allows for trouble-free active panel operation, adjustable tandem rollers for a more effortless operation and fine tuning the fit and operation

C



Mortise or clam lockset – stylish, functional and adjustable

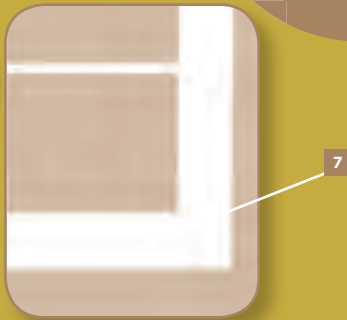




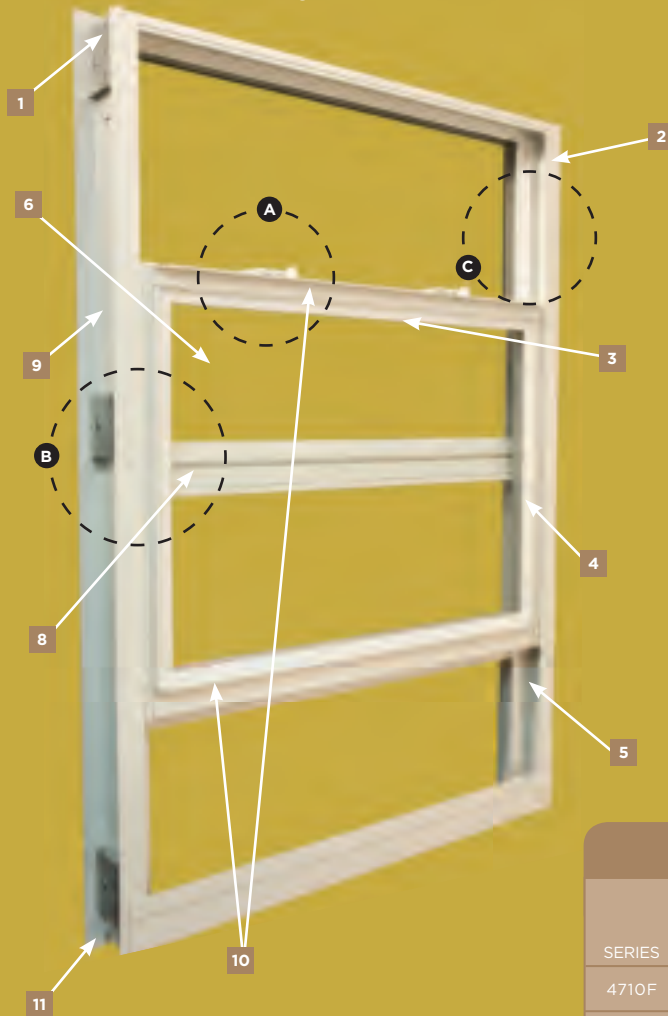
## **4710/4712 SERIES SINGLE HUNG**

**BUILDER SERIES 4710/4712 SERIES SINGLE HUNG**  
aluminum windows are available in singles, twins, triples, fixed and a wide selection of architectural shapes.

# 4710/4712 SERIES SINGLE HUNG



EXTERIOR DETAIL



## FEATURES

- 1 Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- 2 Sleek profile provides larger viewing area
- 3 Interior glazing allows for easier glass replacement
- 4 Side load removable bottom sash
- 5 Block and tackle balance system
- 6 Energy-efficient Warm Edge insulating glass
- 7 Sloped sill allows for proper water drainage to the exterior
- 8 Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit
- 9 Frame depth available in 2<sup>7</sup>/<sub>16</sub>"
- 10 Dual lift rails on bottom sash for easy operation
- 11 Flange (shown) or integral nailing fin for simple installation



4710/4712 series single hung windows are designed for high wind zones and are Florida approved. Upgrade to Impact Rated units for protection against wind borne debris. Manufactured out of virtually maintenance-free extruded aluminum with a long-lasting electrostatically applied finish.

## SINGLE HUNG SELECTION GUIDE

SERIES	NAIL FIN SETBACK	R50	HIGH WIND ZONE	FLORIDA APPROVED	CONSTRUCTION TYPE			
					WOOD SIDING	BRICK	BLOCK	EIFIS
4710F	1 <sup>3</sup> / <sub>8</sub> "		•	•	•	•		•
4710FL	FLANGE		•	•			•	
4712F	1 <sup>3</sup> / <sub>8</sub> "	•	•	•	•	•		•
4712FL	FLANGE	•	•	•			•	

A



Color-coordinated sash lock hardware

B



Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit

C



Block and tackle balance system

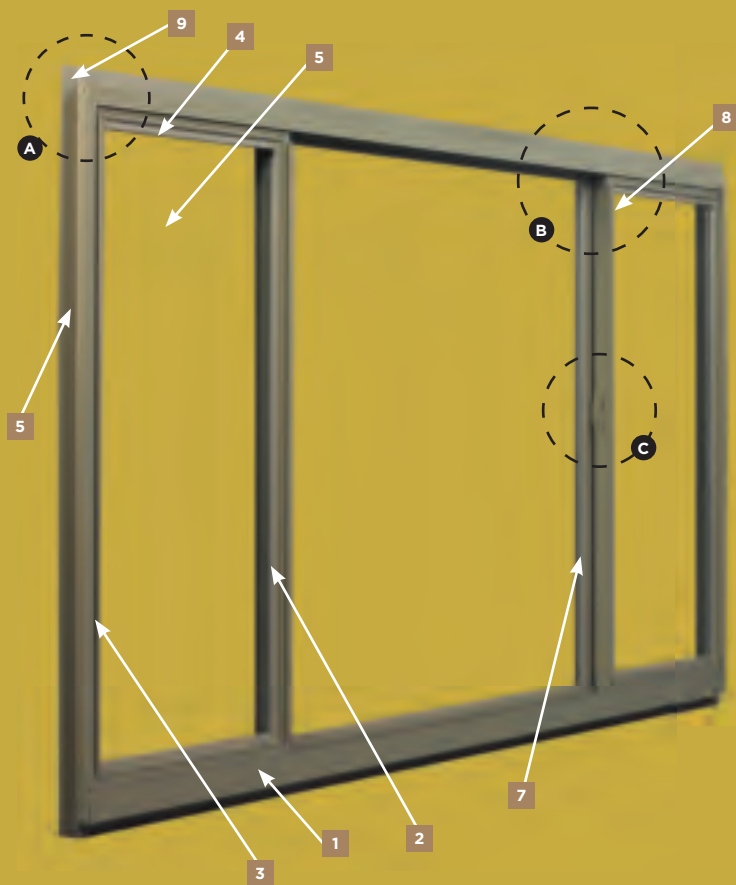




## 4720 SERIES SLIDING WINDOW

**BUILDER SERIES 4720 SERIES  
ALUMINUM SLIDING WINDOWS** are  
available in two different picture configurations  
( $\frac{1}{4}$ - $\frac{1}{2}$ - $\frac{1}{4}$  or  $\frac{1}{3}$ - $\frac{1}{3}$ - $\frac{1}{3}$ ).

# 4720 SERIES SLIDING WINDOW



## FEATURES

- 1 Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- 2 Removable sash
- 3 Sleek profile provides larger viewing area
- 4 Interior glazing allows for easier glass replacement
- 5 Energy-efficient Warm Edge insulating glass
- 6 2<sup>7</sup>/<sub>16</sub>" frame depth
- 7 Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit
- 8 Push rail located at meeting rail
- 9 Integral nailing fin (shown) or flange for simple installation



4720 series sliding windows are designed for high wind and are Florida approved. Manufactured out of virtually maintenance-free extruded aluminum with a long-lasting electrostatically applied finish.

## SLIDING WINDOW SELECTION GUIDE

SERIES	NAIL FIN SETBACK	SASH TYPE	BALANCE TYPE	HIGH WIND ZONE	FLORIDA APPROVED	CONSTRUCTION TYPE			
						WOOD SIDING	BRICK	BLOCK	EIFIS
4720F	1 <sup>3</sup> / <sub>8</sub> "	SIDE LOAD	BLOCK & TACKLE	●	●	●	●		●
4720FL	FLANGE	SIDE LOAD	BLOCK & TACKLE	●	●			●	



1. Optional Low-E upgrade for better performance. 2. Optional Low-ESC (solar cooling optimized) upgrade for increased performance. 3. Optional HP Glass upgrade combines Low-E with argon gas fill for high performance. 4. Optional HPSC Glass upgrade combines solar cooling optimized Low-E with argon gas fill for high performance. 5. Meets Florida building codes for certain zones. Consult your local codes for specific requirements.

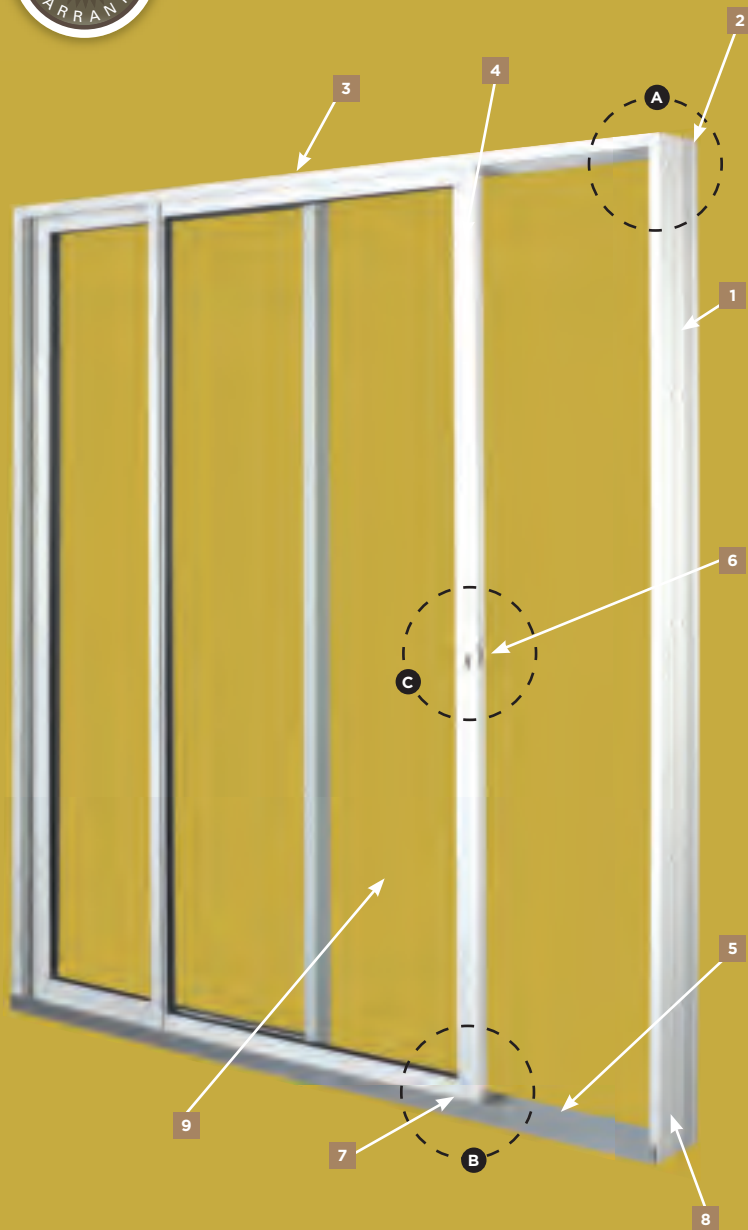




## 4780 SLIDING PATIO DOOR

**BUILDER SERIES 4780 ALUMINUM SLIDING PATIO DOORS** are available with matching side lites, fixed panels, transoms, segmented transoms and a wide selection of architectural shapes.

# 4780 SLIDING PATIO DOOR



## FEATURES

- 1 Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- 2 Available with or without nailing fin (shown without)
- 3 Assembled or knockdown frame available
- 4 Reversible (before installation)
- 5 Stainless steel track cover allows for trouble-free active panel operation
- 6 Mortise or clam lockset – stylish, functional and adjustable
- 7 Adjustable tandem rollers for a more effortless operation and fine tuning the fit and operation
- 8 Frame depth available in 5 $\frac{9}{16}$ "
- 9 Energy-efficient Warm Edge insulating tempered glass



4780 sliding patio doors are designed for high wind zones and are Florida approved. They are reversible before installation. They are constructed with full-perimeter weatherstripping for a tight seal. Exterior handles are available with or without keyed lock. Optional metal reinforced stiles provide rigid stability for units up to 8'0" tall.

A



Virtually maintenance-free extruded aluminum construction and pre-punched nailing fin with fully fusion-welded corner and electrostatically applied finish

B



Adjustable tandem rollers for a more effortless operation and fine tuning the fit and operation

C



Mortise or clam lockset – stylish, functional and adjustable

1. Optional Low-E upgrade for better performance. 2. Optional Low-E<sup>SC</sup> (solar cooling optimized) upgrade for increased performance. 3. Optional HP Glass upgrade combines Low-E with argon gas fill for high performance. 4. Optional HP<sup>SC</sup> Glass upgrade combines solar cooling optimized Low-E with argon gas fill for high performance. 5. Meets Florida building codes for certain zones. Consult your local codes for specific requirements.





## 4810F/4812F SINGLE HUNG

**BUILDER SERIES 4810F/4812F SINGLE HUNG**  
aluminum windows are available in singles, twins, triples, fixed and  
a wide selection of architectural shapes.

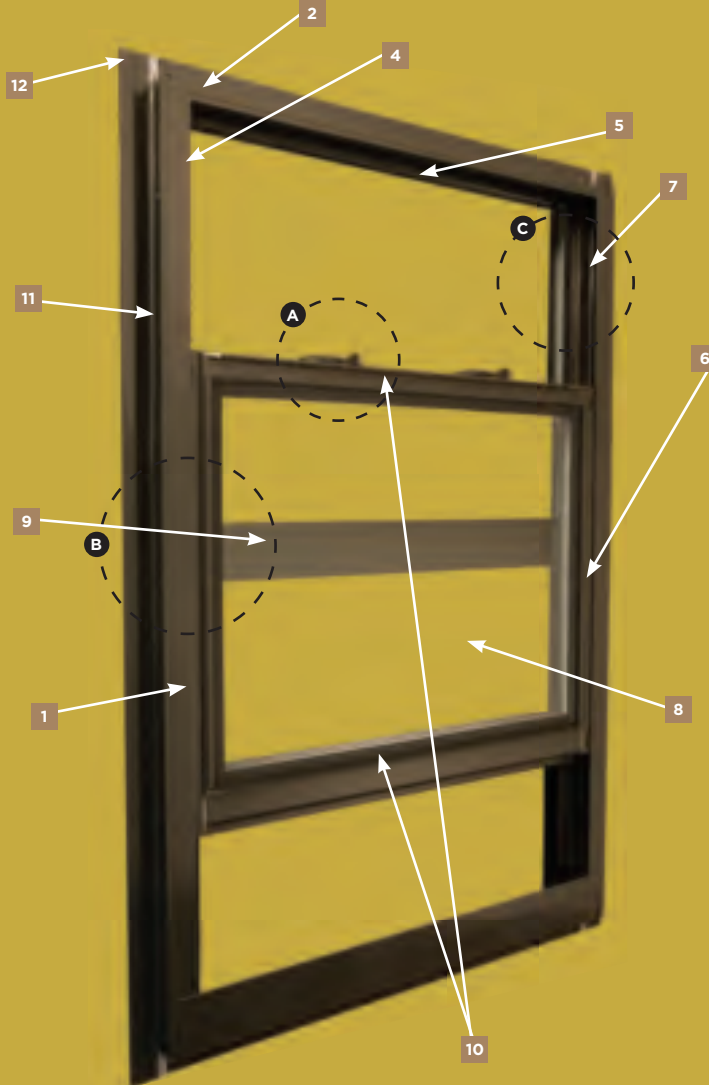
# 4810F/4812F SINGLE HUNG

ALUMINUM

WINDOWS



EXTERIOR DETAIL



## FEATURES

- 1 Thermally broken aluminum frame with polyurethane poured in place and debridged to reduce thermal conductivity of aluminum frame
- 2 Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- 3 Sloped sill allows for proper water drainage to the exterior
- 4 Sleek profile provides larger viewing area
- 5 Interior glazing allows for easier glass replacement
- 6 Side load removable bottom sash
- 7 Block and tackle balance system
- 8 Energy-efficient Warm Edge insulating glass
- 9 Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit
- 10 Dual lift rails on bottom sash for easy operation
- 11 Frame depth available in 2<sup>7</sup>/<sub>16</sub>"
- 12 Integral nailing fin with a 1<sup>3</sup>/<sub>8</sub>" setback for simple installation



4810F/4812F single hung windows are designed for high wind zones. Upgrade to Impact Rated units for protection against wind borne debris.

This series is set apart by its improved performance. The thermally broken aluminum frame with polyurethane poured in place and debridged reduces the thermal conductivity of the aluminum frame. Manufactured out of virtually maintenance-free extruded aluminum with a long-lasting electrostatically applied finish.

## SINGLE HUNG SELECTION GUIDE

SERIES	NAIL FIN SETBACK	R50	HIGH WIND ZONE	FLORIDA APPROVED	CONSTRUCTION TYPE		
					WOOD SIDING	BRICK	EIFS
4810F	1 <sup>3</sup> / <sub>8</sub> "		•	•	•	•	•
4812F	1 <sup>3</sup> / <sub>8</sub> "	•	•	•	•	•	•

A



Color-coordinated sash lock hardware

B



Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit

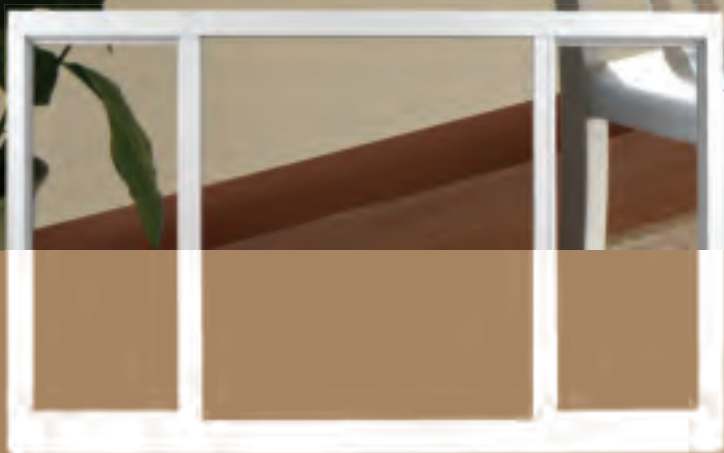
C



Block and tackle balance system

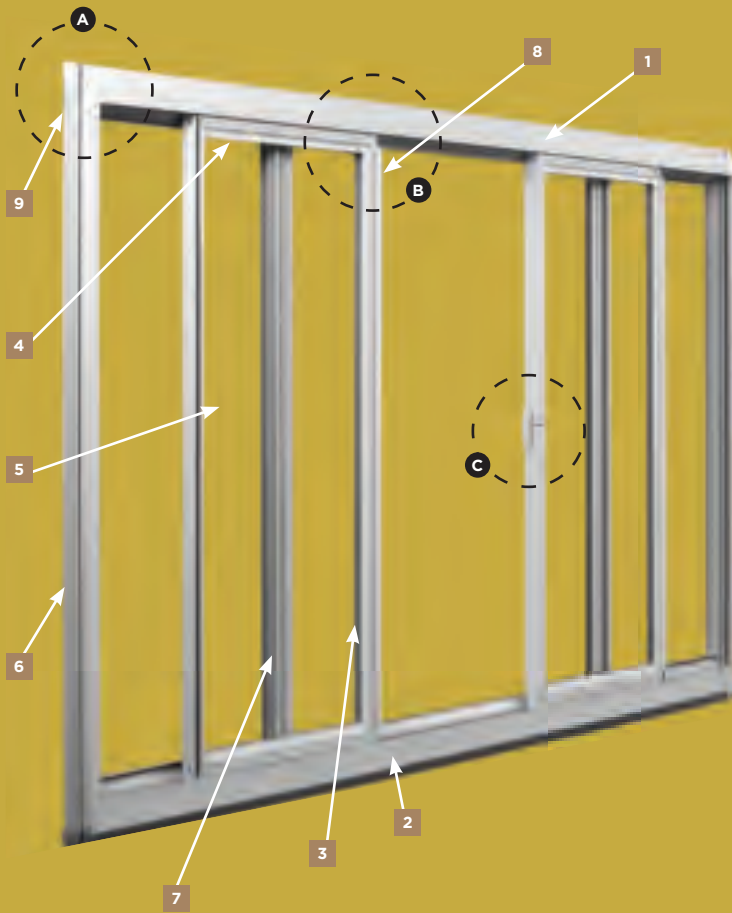
1. Optional Low-E upgrade for better performance. 2. Optional Low-E<sup>SC</sup> (solar cooling optimized) upgrade for increased performance. 3. Optional HP Glass upgrade combines Low-E with argon gas fill for high performance. 4. Optional HP<sup>SC</sup> Glass upgrade combines solar cooling optimized Low-E with argon gas fill for high performance. 5. Impact Rated units are available in select sizes and configurations. 6. Meets Florida building codes for certain zones. Consult your local codes for specific requirements.





## 4820F SLIDING WINDOW

**BUILDER SERIES 4820F ALUMINUM SLIDING WINDOWS** are available in two different picture configurations ( $\frac{1}{4}$ - $\frac{1}{2}$ - $\frac{1}{4}$  or  $\frac{1}{3}$ - $\frac{1}{3}$ - $\frac{1}{3}$ ).



## FEATURES

- 1 Thermally broken aluminum frame with polyurethane poured in place and debridged to reduce thermal conductivity of aluminum frame
- 2 Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- 3 Sleek profile provides larger viewing area
- 4 Interior glazing allows for easier glass replacement
- 5 Energy-efficient Warm Edge insulating glass
- 6 Frame depth available in  $2\frac{7}{16}$ "
- 7 Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit
- 8 Push rail located at meeting rail
- 9 Integral nailing fin with a  $1\frac{3}{8}$ " setback for simple installation



4820F sliding windows are designed for high wind zones. This series is set apart by its improved performance. The thermally broken aluminum frame with polyurethane poured in place and debridged reduces the thermal conductivity of the aluminum frame. Manufactured out of virtually maintenance-free extruded aluminum with a long-lasting electrostatically applied finish.

A



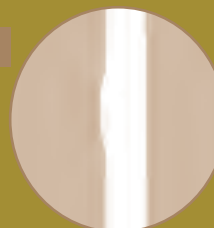
Integral nailing fin with a  $1\frac{3}{8}$ " setback for simple installation

B



Push rail located at meeting rail

C



Color-coordinated sash lock hardware



# NFRC THERMAL PERFORMANCE DATA

## BUILDER SERIES ALUMINUM PRODUCTS

### 3710N ALUMINUM SINGLE HUNG

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
5/8" Clear	1.52	0.66	0.65	0.68
5/8" Low-E	1.92	0.52	0.32	0.57
5/8" Low-E <sup>SC</sup>	1.92	0.52	0.25	0.45
5/8" HP Glass	2.08	0.48	0.32	0.58
5/8" HP <sup>SC</sup> Glass	2.08	0.48	0.25	0.46

### 3752T<sup>2</sup> THERMAL PERFORMANCE

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
5/8" Clear	1.67	0.60	0.66	0.69
5/8" Low-E	2.17	0.46	0.32	0.58
5/8" Low-E <sup>SC</sup>	2.17	0.46	0.25	0.46
5/8" HP Glass	2.38	0.42	0.32	0.59
5/8" HP <sup>SC</sup> Glass	2.44	0.41	0.24	0.46

### 3710F ALUMINUM SINGLE HUNG

		NFRC CERTIFIED		
		U Factor	SHGC	VT
WARM EDGE				
5/8" Clear	1.49	0.67	0.65	0.68
5/8" Low-E	1.89	0.53	0.32	0.57
5/8" Low-E <sup>SC</sup>	1.89	0.53	0.25	0.45
5/8" HP Glass	2.00	0.50	0.32	0.58
5/8" HP <sup>SC</sup> Glass	2.04	0.49	0.25	0.46

### 3724 ALUMINUM SLIDING WINDOW

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
5/8" Clear	1.43	0.70	0.66	0.67
5/8" Low-E	1.82	0.55	0.32	0.57
5/8" Low-E <sup>SC</sup>	1.82	0.55	0.25	0.45
5/8" HP Glass	2.00	0.50	0.32	0.57
5/8" HP <sup>SC</sup> Glass	2.00	0.50	0.25	0.45
WITH WARM EDGE+				
5/8" HP Glass	2.04	0.49	0.32	0.57
5/8" HP <sup>SC</sup> Glass	2.04	0.49	0.25	0.45

### 3752/3753<sup>1</sup> ALUMINUM SINGLE HUNG

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
5/8" Clear	1.47	0.68	0.67	0.69
5/8" Low-E	1.89	0.53	0.32	0.59
5/8" Low-E <sup>SC</sup>	1.89	0.53	0.25	0.46
5/8" HP Glass	2.08	0.48	0.32	0.59
5/8" HP <sup>SC</sup> Glass	2.08	0.48	0.25	0.46

#### ENERGY STAR® Qualification Criteria WINDOWS and DOORS

Zone	U Factor	SHGC
Northern	≤ 0.30	ANY
North-Central	≤ 0.32	≤ 0.40
South-Central	≤ 0.35	≤ 0.30
Southern	≤ 0.60	≤ 0.27



R Value: Restrictive ambient air flow  
U FACTOR: Rate of heat loss  
SHGC: Solar Heat Gain Coefficient  
VT: Visible Transmittance

## ENERGY STAR® CLIMATE ZONES



**NOTE:** Low-E<sup>SC</sup> = Solar cooling optimized Low-E  
HP = Combines Low-E and argon gas fill for high performance  
HP<sup>SC</sup> = Combines solar cooling optimized Low-E and argon gas fill for enhanced performance  
Warm Edge+ = High performance Warm Edge+ spacer system

All units rated in accordance with NFRC 100/200 standards by a NAMI Accredited lab. Performance values reflect the performance of units tested with the following configuration: 3mm glass, no grilles and IGU thickness specified in the chart.

# NFRC THERMAL PERFORMANCE DATA

## 3780 SLIDING PATIO DOOR

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
5/8" Clear	1.45	0.69	0.68	0.72
5/8" Low-E	1.82	0.55	0.33	0.61
5/8" Low-E <sup>SC</sup>	1.82	0.55	0.25	0.48
5/8" HP Glass	2.00	0.50	0.32	0.61
5/8" HP <sup>SC</sup> Glass	2.00	0.50	0.25	0.48

## 4780 SLIDING PATIO DOOR

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
5/8" Clear	1.41	0.71	0.66	0.70
5/8" Low-E	1.75	0.57	0.32	0.59
5/8" Low-E <sup>SC</sup>	1.75	0.57	0.25	0.46
5/8" HP Glass	1.92	0.52	0.37	0.59
5/8" HP <sup>SC</sup> Glass	1.92	0.52	0.29	0.46

## 4710 SERIES SINGLE HUNG

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
3/4" Clear	1.49	0.67	0.64	0.67
3/4" Low-E	1.89	0.53	0.31	0.57
3/4" Low-E <sup>SC</sup>	1.89	0.53	0.24	0.45
3/4" HP Glass	1.92	0.52	0.31	0.57
3/4" HP <sup>SC</sup> Glass	1.96	0.51	0.24	0.45

## 4712 SERIES SINGLE HUNG

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
3/4" Clear	1.47	0.68	0.65	0.67
3/4" Low-E	1.85	0.54	0.31	0.57
3/4" Low-E <sup>SC</sup>	1.85	0.54	0.24	0.45
3/4" HP Glass	2.00	0.50	0.31	0.57
3/4" HP <sup>SC</sup> Glass	2.00	0.50	0.24	0.45

## 4810F SINGLE HUNG

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
3/4" Clear	1.64	0.61	0.64	0.67
3/4" Low-E	2.17	0.46	0.31	0.57
3/4" Low-E <sup>SC</sup>	2.17	0.46	0.24	0.44
3/4" HP Glass	2.33	0.43	0.31	0.57
3/4" HP <sup>SC</sup> Glass	2.33	0.43	0.23	0.44

## 4812 SERIES THERMAL PERFORMANCE

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
3/4" Clear	1.59	0.63	0.64	0.66
3/4" Low-E	2.04	0.49	0.31	0.56
3/4" Low-E <sup>SC</sup>	2.04	0.49	0.24	0.44
3/4" HP Glass	2.17	0.46	0.30	0.56
3/4" HP <sup>SC</sup> Glass	2.22	0.45	0.23	0.44

## 4720 SERIES SLIDING WINDOW

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
3/4" Clear	1.43	0.70	0.65	0.66
3/4" Low-E	1.79	0.56	0.31	0.56
3/4" Low-E <sup>SC</sup>	1.79	0.56	0.24	0.44
3/4" HP Glass	1.92	0.52	0.31	0.56
3/4" HP <sup>SC</sup> Glass	1.92	0.52	0.24	0.44

## 4820F SLIDING WINDOW

		NFRC CERTIFIED		
		U Factor	SHGC	VT
R Value				
WARM EDGE				
3/4" Clear	1.54	0.65	0.65	0.66
3/4" Low-E	1.96	0.51	0.31	0.56
3/4" Low-E <sup>SC</sup>	2.00	0.50	0.24	0.44
3/4" HP Glass	2.17	0.46	0.31	0.56
3/4" HP <sup>SC</sup> Glass	2.17	0.46	0.24	0.44



## GLASS OPTIONS

- Low-E
- Obscure
- Low<sup>SC</sup>  
(Solar Cooling optimized Low-E)
- HP Glass  
(Low-E/argon)<sup>1</sup>
- HP<sup>SC</sup> Glass
- Tempered<sup>1</sup>

1. Tempered glass is standard on sliding patio doors.

## SCREENS

Builder Series screens feature color matched aluminum frames with fiberglass or wire mesh. Sliding patio door screens feature steel rollers for ease of operation.

## WHAT IS LOW-E?

It is a microscopically thin, virtually invisible metallic oxide layer deposited on a window glazing surface. Low-E can reduce heating and cooling bills while dramatically improving overall comfort.





## IMPACT RATED WINDOWS & DOORS



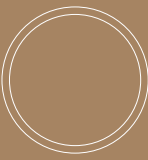

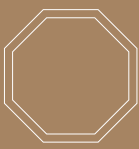













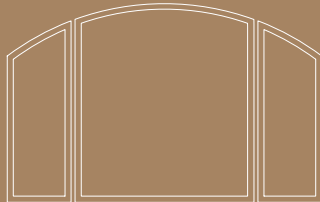
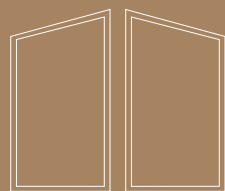


- **4710FIR/FLIR impact single hung units** are constructed to meet H-R40 performance.
- **4720FIR impact sliding window units** are constructed to meet HS-R50 up to 72" x 48" XO performance.
- **4810FIR impact single hung units** are constructed to meet H-LC40 performance.
- Rated in accordance with the International Residential Codes and meet impact requirements in U.S. Zone 2 (110-120 mph) and Zone 3 (120-140 mph).
- Passes ASTM E1886/1996 Large Missile Impact and Cycling Tests.
- Meets AAMA/WDMA/CSA 101/I.S.2/A440 standard. 4710FIR/FLIR and 4720F units are Florida Building Commission Approved.

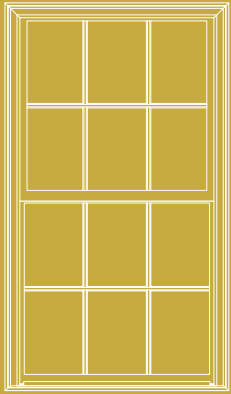




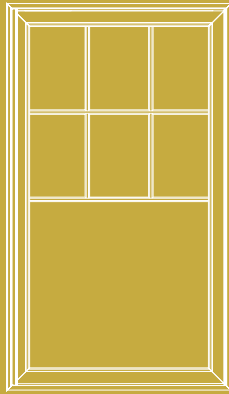
# ARCHITECTURAL SHAPES

					
Triangle	Pentoid	Full Round	Oval	Octagon	Right Triangle
					
Rectangle	Eyebrow	Elliptical	Clip Trapezoid		
					
Quarter Circle	Circle Head	Arch Transom	Segmented Arch Transom	Trapezoid Transom	
					
Ext. Quarter Circle	True Radius	Arch	Segmented Arch Picture	Trapezoid Picture	

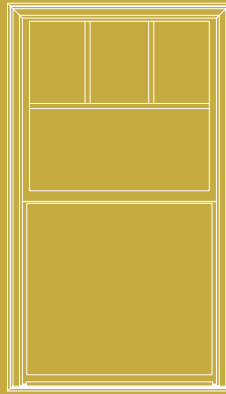
## STANDARD GRILLE PATTERNS



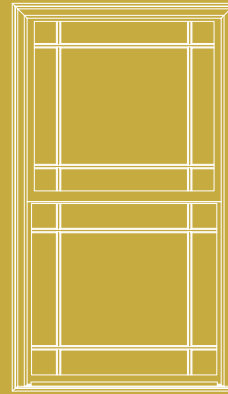
Colonial



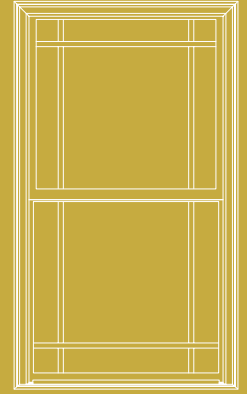
Half Colonial  
(shown on Casement)



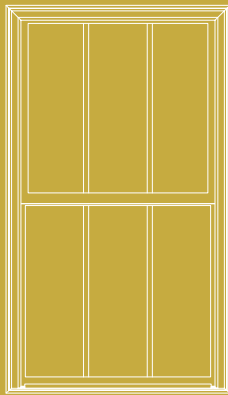
Plaza



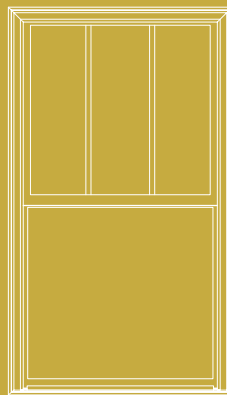
Prairie



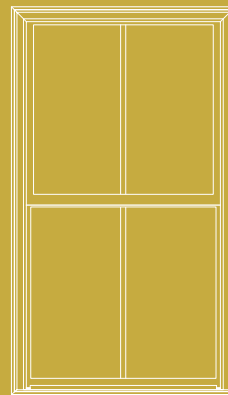
Perimeter Prairie



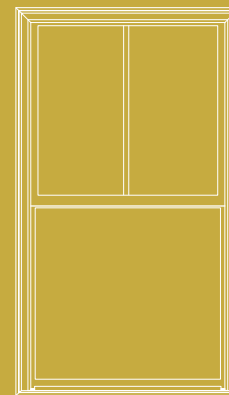
Three over Three



Three over One



Two over Two



Two over One

Call customer service for optional grille patterns (800.999.8400).

## GRILLE STYLE OPTIONS



$\frac{5}{8}$ " Flat GBG



$\frac{3}{4}$ " Flat GBG





## COLOR OPTIONS

WHITE  
(INTERIOR/  
EXTERIOR)

ADOBE GREY  
(INTERIOR/  
EXTERIOR)

BRONZE  
(INTERIOR/  
EXTERIOR)

Colors shown may not be accurate representations. For color matching, please request color swatches from your Ply Gem sales representative.

## HARDWARE OPTIONS

### DOOR HANDLE COLOR OPTIONS

3780 Sliding Patio Door  
4780 Sliding Patio Door

WHITE  
ADOBE GREY  
BRONZE









Windows Siding Stone Veneer Fence+Rail Designer Accents [plygem.com](http://plygem.com)



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For more information, call 888-9PLYGEM.