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The information published in this document is believed to be accurate at the time of publication. However, because we are constantly working to improve our products, content is subject to change without notice. Some content may not reflect the most current product offering, but installation concepts still apply. Consult your local Pella representative for up-to-date product information.



### Introduction

This section explores accessories, assembly systems and field measurement procedures required to meet the specific challenges of historic restoration, renovation and window replacement within existing construction.

In addition to providing custom windows for historic restoration projects, Pella offers these window replacement systems.

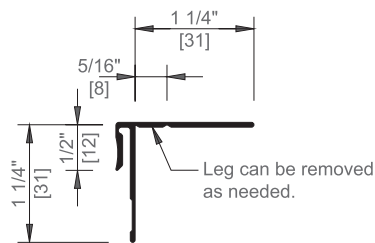
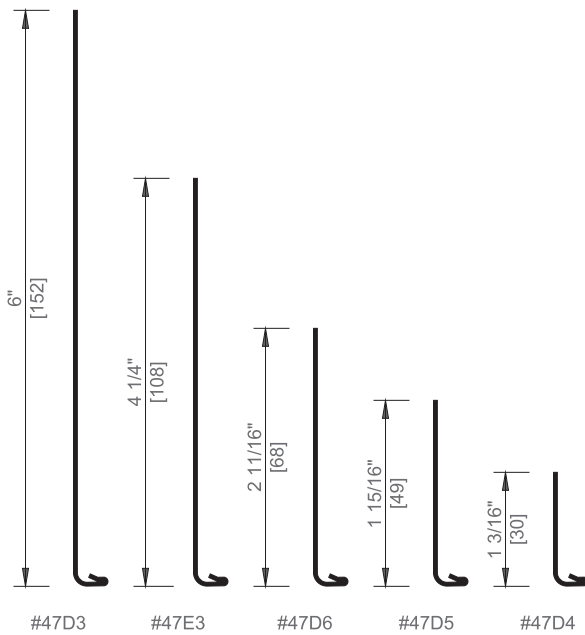
- **Pella Precision Fit Window System** — fully assembled, factory-tested double-hung window unit that slides easily into the existing sash "pocket" created when the old sash is removed. This is done without damaging surrounding trim, wall paper, paint or plaster. Custom-built units are made to order in 1/4" increments to fit your existing window opening. See Precision Fit Windows on [www.Pella.com](http://www.Pella.com) for complete description and options.
- **Pella Frame Expander System** — provides an economical method for replacing old wood or metal windows without tearing out existing window frames. Pella aluminum-clad windows and doors have an accessory groove that allows for the use of the frame expander system. Made of low-maintenance aluminum cladding that perfectly matches Pella products, these frame expanders can be used to update the exterior trim or cover existing trim that is in poor condition. Windows need to be accessible from the exterior to use this type of installation.
- **Pella Standard Subframe System** — allows installation of new replacement windows from inside the building. This eliminates the need for exterior scaffolding and its expense, reduces labor costs and minimizes disturbance to existing construction. In most cases, only the sash of existing windows will need to be removed. The extruded aluminum subframe system is pre-assembled and covers the existing window frame and exterior trim, and the new window is set into the subframe.
- **Pella's T-Subframe System** — allows for the replacement of old metal windows without the need to tear out existing metal frames. The subframe consists of aluminum components that are pre-assembled and installed into openings, concealing the existing window frame, to become a "receptor" for the new window.

When historic, aesthetic or structural considerations dictate a complete tear-out, Pella can provide custom-size window units to fit into existing openings. Contact your Pella architectural consultant early in the project to ensure close coordination with the architect and contractor, accurate measurements, and timely fulfillment of window and door orders to keep projects on schedule and on budget.



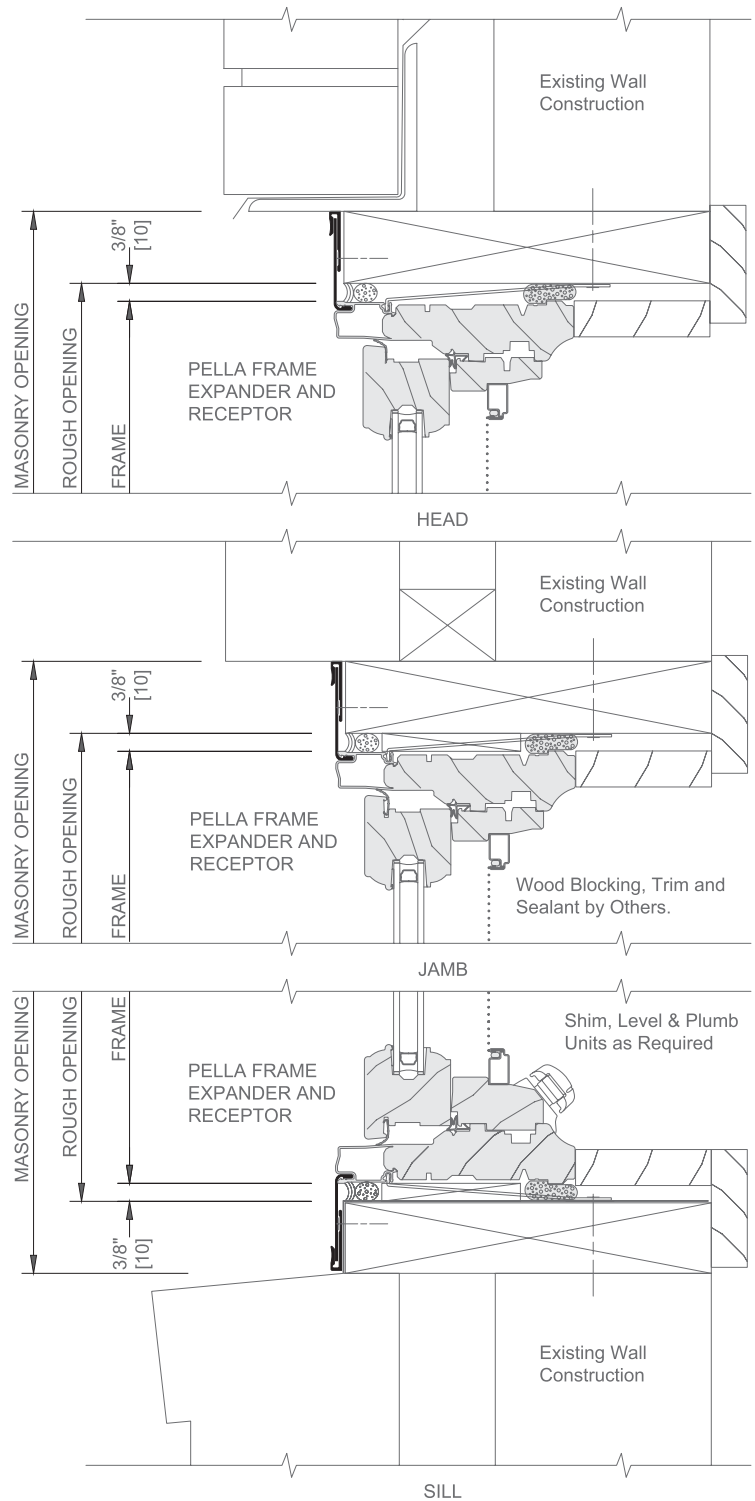
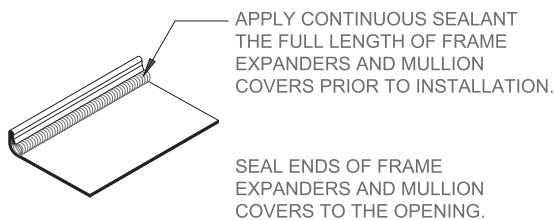
## Clad-Wood Renovation

### Standard Frame Expander System



FRAME EXPANDER RECEPTOR #72A7

#### TYPICAL SEALANT PLACEMENT DETAIL



See installation instructions for additional recommendations.

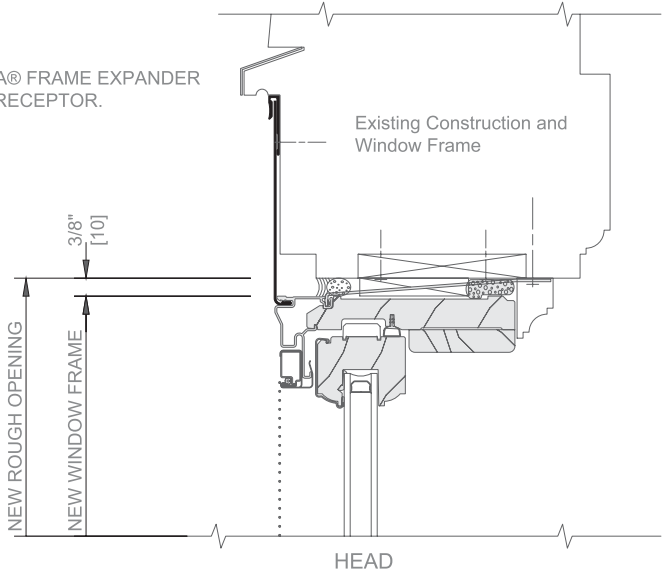
**NOTE:** Special sizes can be fabricated as required.



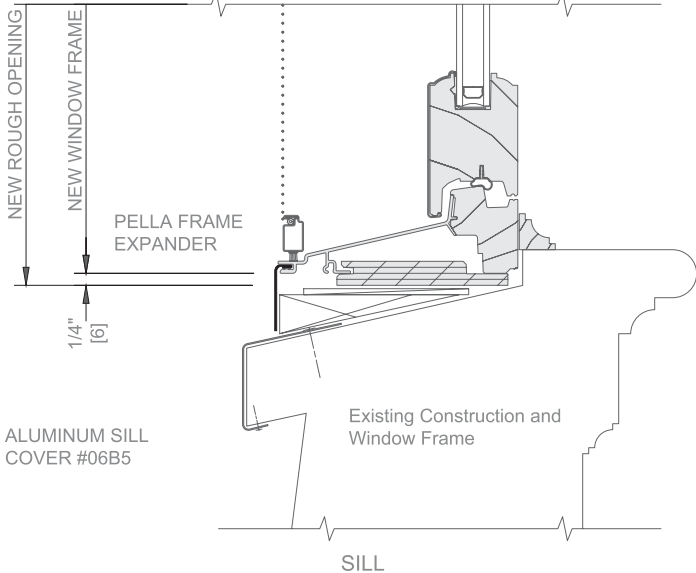
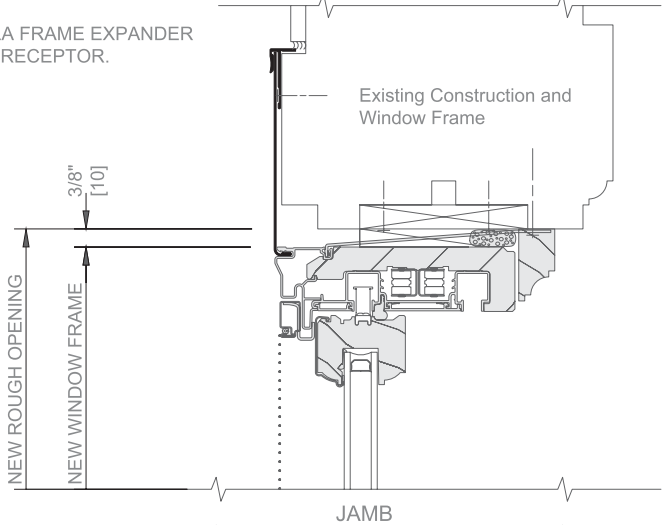
# Clad-Wood Renovation

## Standard Frame Expander System

PELLA® FRAME EXPANDER  
AND RECEPTOR.



PELLA FRAME EXPANDER  
AND RECEPTOR.



**NOTE:** Details shown are representative of typical residential applications. Other consideration may be required for commercial applications depending upon building height, location and application.  
The Pella® Precision Fit® replacement window is another option for this condition. See the Precision Fit product sections at [www.Pella.com](http://www.Pella.com) for more information.

REMOVE EXISTING SASH AND PARTING STOP BLOCKING AS REQUIRED BY OTHERS.

WOOD BLOCKING, TRIM, SEALANT, AND INSULATION BY OTHERS.

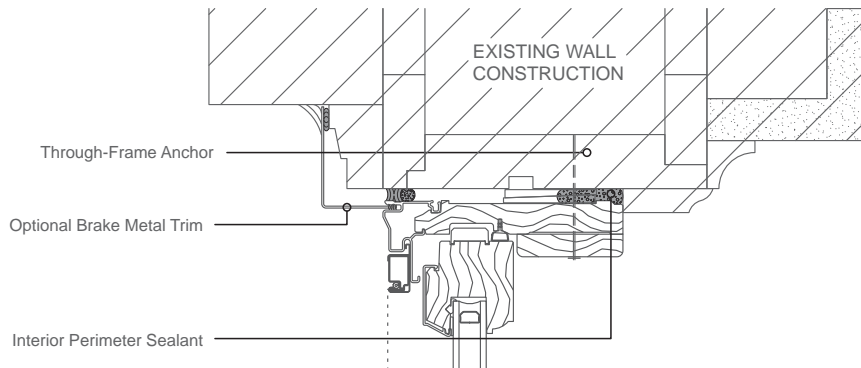
SEE INSTALLATION INSTRUCTIONS FOR ADDITIONAL RECOMMENDATIONS.

**NOTE:** Special sizes can be fabricated as required.



## Clad-Wood Renovation

### Replacement Sill Adaptor System - Installed from Exterior



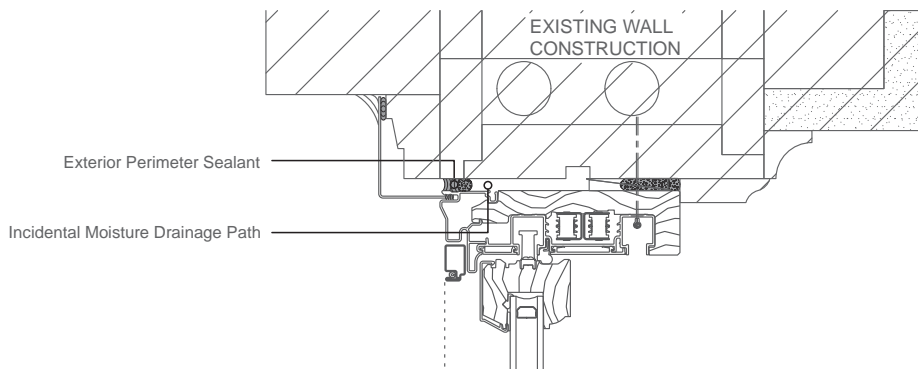
#### Pocket Replacement from the Exterior

An existing wood hung window frame is left in place while the sashes, exterior stop and parting stop are removed. The new window is placed from the exterior against the interior stop. No interior trim is disturbed.

In some cases, brake metal or frame expander exterior trim can be used to create a low-maintenance exterior finish over the existing window frame.

**NOTE:** Details shown are representative of typical residential applications. Other consideration may be required for commercial applications depending upon building height, location and application.

The Pella® Precision Fit® replacement window is another option for this condition. See the Precision Fit product sections at [www.Pella.com](http://www.Pella.com) for more information.



WALL CONSTRUCTION AND OLD DOULBE-HUNG FRAME SHOWN ARE EXISTING; OLD DOUBLE-HUNG SASH AND PARTING STOP HAVE BEEN REMOVED.

REFER TO THE APPROPRIATE PELLA INSTALLATION INSTRUCTION FOR COMPLETE STEP BY STEP INSTRUCTION.

TRIM EXTERIOR BLIND STOP FLUSH WITH OLD FRAME.

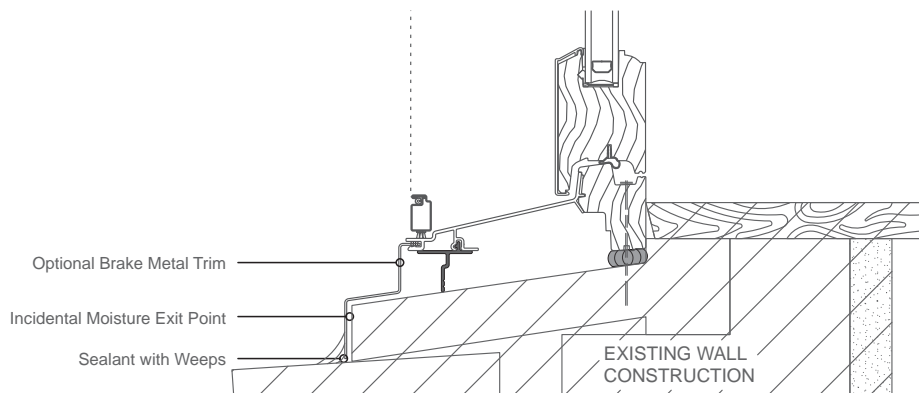
SHIM AND PLUMB UNITS AS REQUIRED.

SEAL UNIT TO INTERIOR STOP AND SILL.

INSTALL REPLACEMENT SILL ADAPTOR (Part # 70DK). TRIM AS NEEDED.

DO NOT SEAL TO SILL.

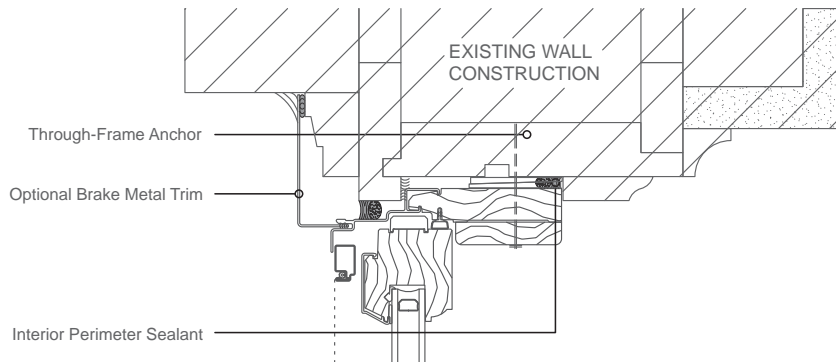
WOOD BLOCKING, TRIM, SEALANT BY OTHERS





## Clad-Wood Renovation

### Pocket Replacement - Installed from Interior

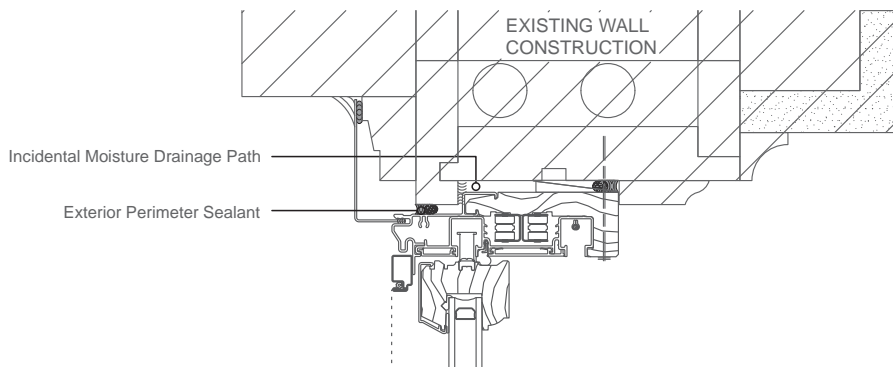


#### Pocket Replacement from the Interior

An existing wood hung window frame is left in place while the sashes, interior stop and parting stop are removed. The new window is placed from the interior against the exterior stop. No exterior materials are disturbed. The interior stop can sometimes be reused.

Frame depths of approximately 3-1/4", Precision Fit® windows and "replacement windows" are designed for this installation method.

In some cases, brake metal or frame expander exterior trim can be used to create a low-maintenance exterior finish over the existing window frame.



**NOTE:** Details shown are representative of typical residential applications. Other consideration may be required for commercial applications depending upon building height, location and application.

WALL CONSTRUCTION AND OLD DOULBE-HUNG FRAME SHOWN ARE EXISTING; OLD DOUBLE-HUNG SASH AND PARTING STOP HAVE BEEN REMOVED.

REFER TO THE APPROPRIATE PELLA INSTALLATION INSTRUCTION FOR COMPLETE STEP BY STEP INSTRUCTION.

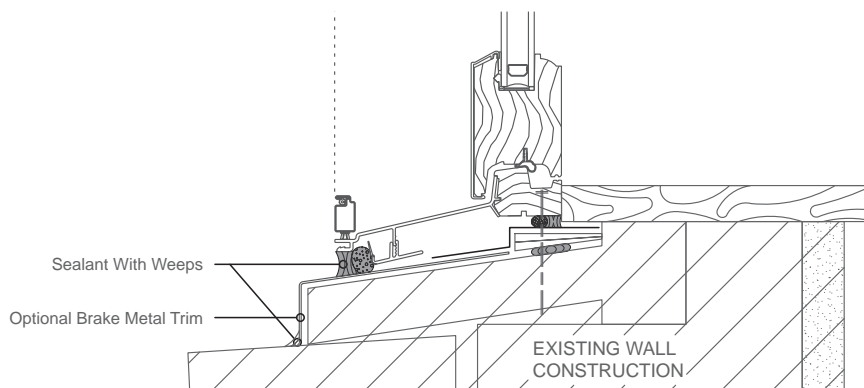
SHIM AND PLUMB UNITS AS REQUIRED.

SEAL UNIT TO INTERIOR STOP AND SILL.

INSTALL REPLACEMENT SILL ADAPTOR (Part # 70DK). TRIM AS NEEDED.

DO NOT SEAL TO SILL.

WOOD BLOCKING, TRIM, SEALANT BY OTHERS





# Clad-Wood Renovation

## Standard Subframe System

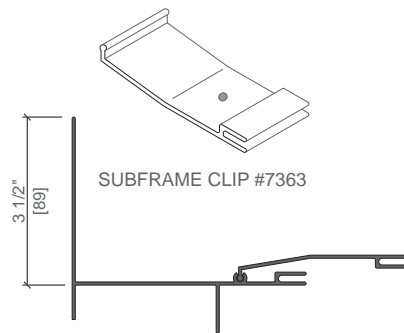
### Subframe Installation

An existing wood window frame is left in place while the sashes are removed and a pre-assembled subframe is secured to the opening. The new window is placed from the interior inside the subframe. No exterior materials are disturbed.

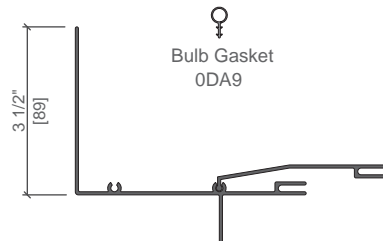
In many cases, all installation steps can be completed from the interior.

**NOTE:** Maximum length is 12'. See mullion detail on Standard Subframe Accessories page for openings which exceed this limit. Consult manufacturer for multiple unit conditions.

\*NOTE: Subframe leg may be field-cut as required.



SUBFRAME HEAD #7355



SUBFRAME JAMB #7357

Clad Wood Clip

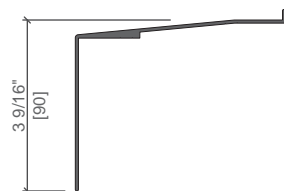


Impervia Clip

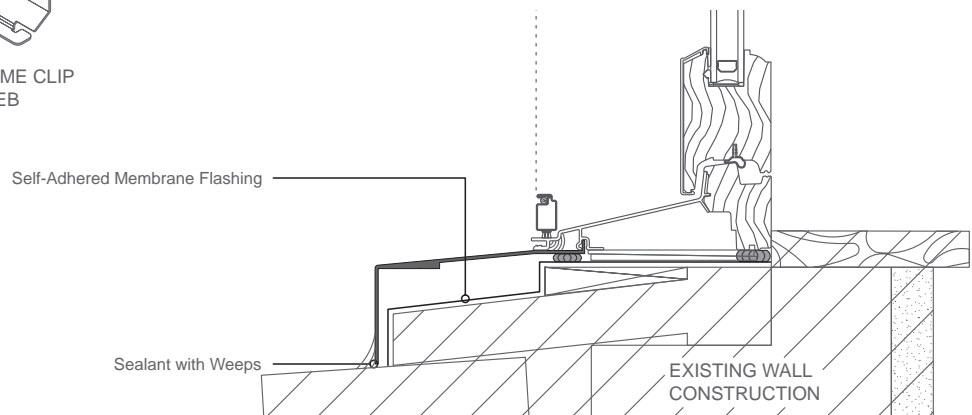
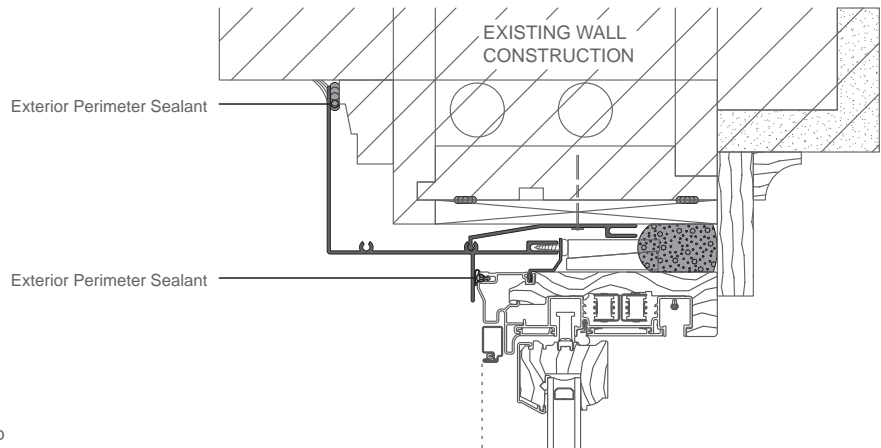
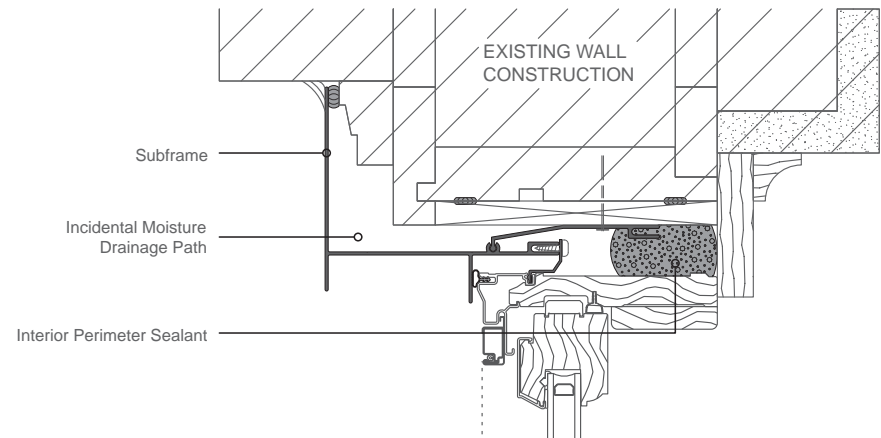


PACKAGE #0B050000:  
WINDOW CLIP #5087 AND  
#8x5/8" PAN HEAD  
PHILLIPS SCREW

SUB FRAME CLIP  
50EB



SUBFRAME SILL #7360



The following details are intended to show important installation concepts, but may not include all pertinent details. Please review installation instructions or contact your Pella sales representative or Pella Architectural Services for recommendations or drawings specific to your project.

Also refer to the Subframe System Specifications on the following page.



### Subframe System Specifications

The window replacement installation method shall be the Pella Subframe System which permits installation of new windows from inside the building. Only the sash of the existing window shall be removed in preparing the opening for the subframe system, thus minimizing the disturbance to existing construction.

- The subframe shall consist of aluminum components which are pre-assembled and installed into openings, concealing the existing window frame, to become a "receptor" for the new window.
- The aluminum components shall be solid Type 6063-T5 or T6 extruded aluminum with a typical metal thickness of 0.065" (1.7 mm).
- Exterior aluminum components shall be finished with Pella EnduraClad® multi-stage finish system. Color shall be as specified: [White] [Tan] [Brown] are standard colors.
- Feature colors are available as well as custom colors.
- EnduraClad Plus® 70% fluoropolymer-based multi-stage finish system is also available.





# Clad-Wood Renovation

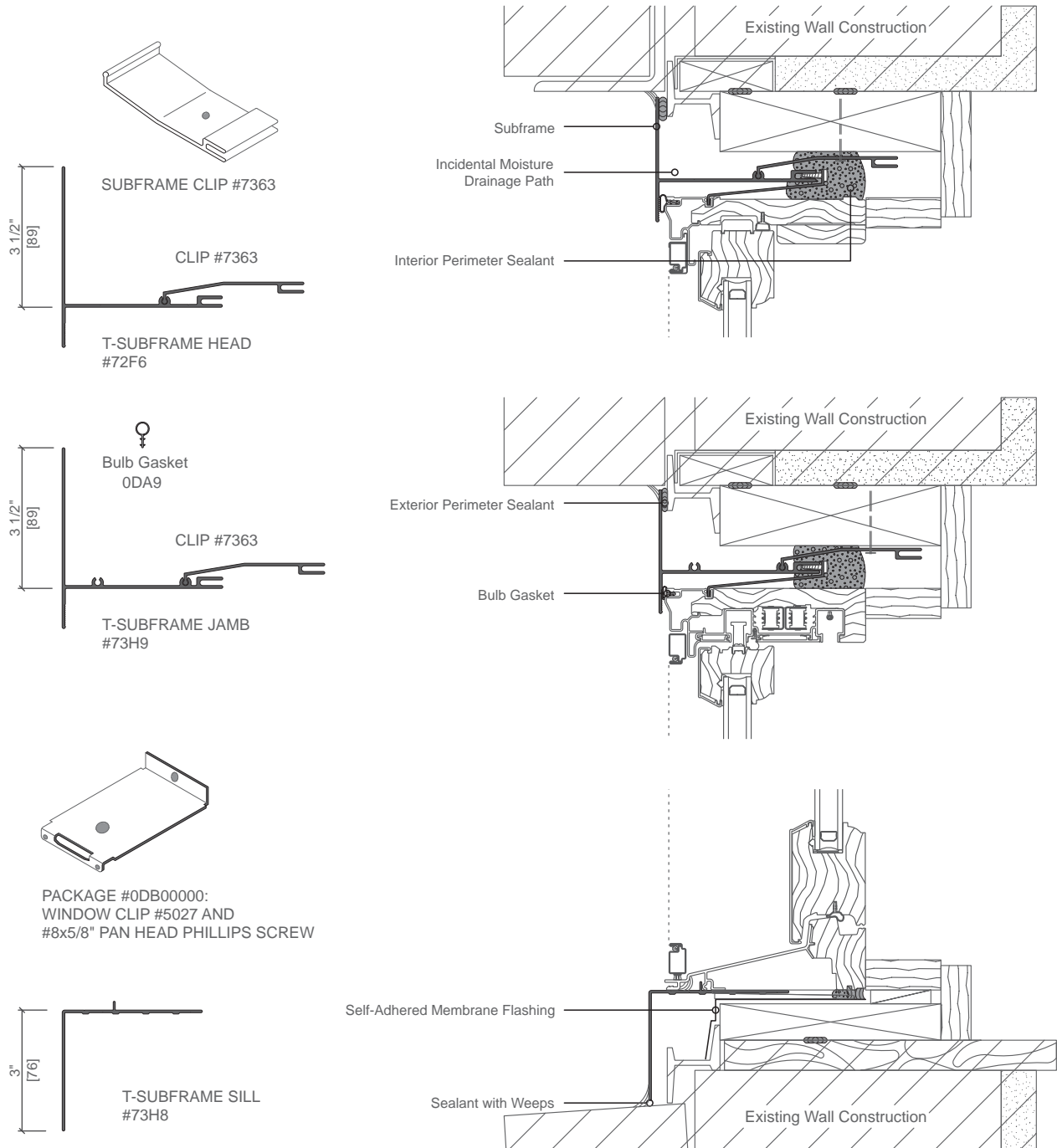
## T-Subframe System

### T-Subframe Installation

An existing aluminum or steel window frame is left in place while the sashes are removed and a pre-assembled subframe is secured to the opening. The new window is placed from the interior inside the subframe. No exterior materials are disturbed.

In many cases, all installation steps can be completed from the interior.

**NOTE:** Maximum length is 12'. See mullion detail on Standard Subframe Accessories page for openings which exceed this limit. Consult manufacturer for multiple unit conditions.



\*NOTE: Subframe leg may be field-cut as required.

**NOTE:** Where aluminum and steel come into contact, apply protective coating to steel to separate it from aluminum (materials are galvanically incompatible).

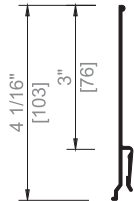
Also refer to the Subframe System Specifications on the previous page.



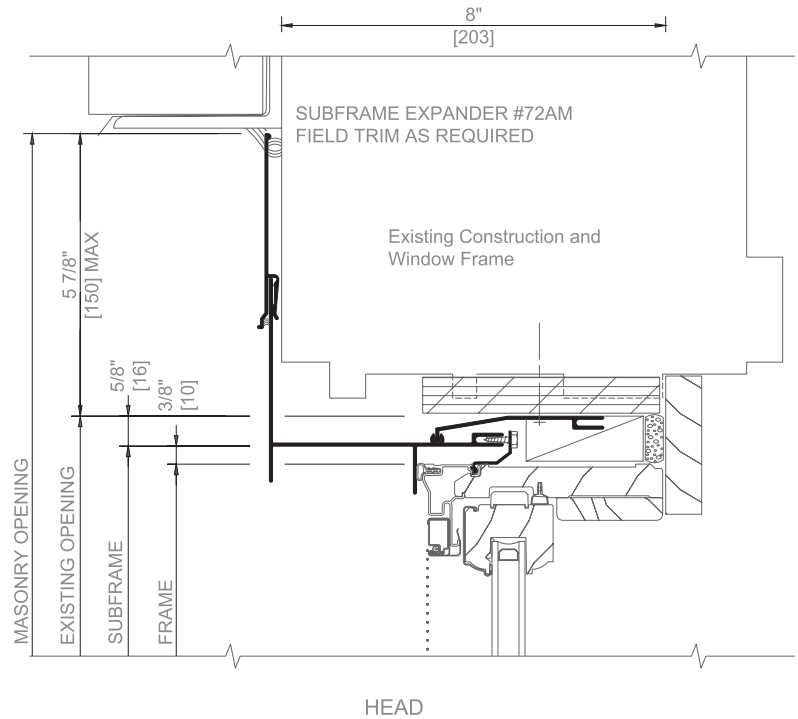
## Clad-Wood Renovation

### Standard Subframe Accessories

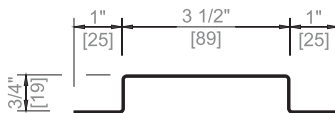
SUBFRAME EXPANDER #72AM



The PELLA® subframe expander may be used at either head or jamb to extend the subframe flange to reach the existing construction. Typically used in curved top openings.

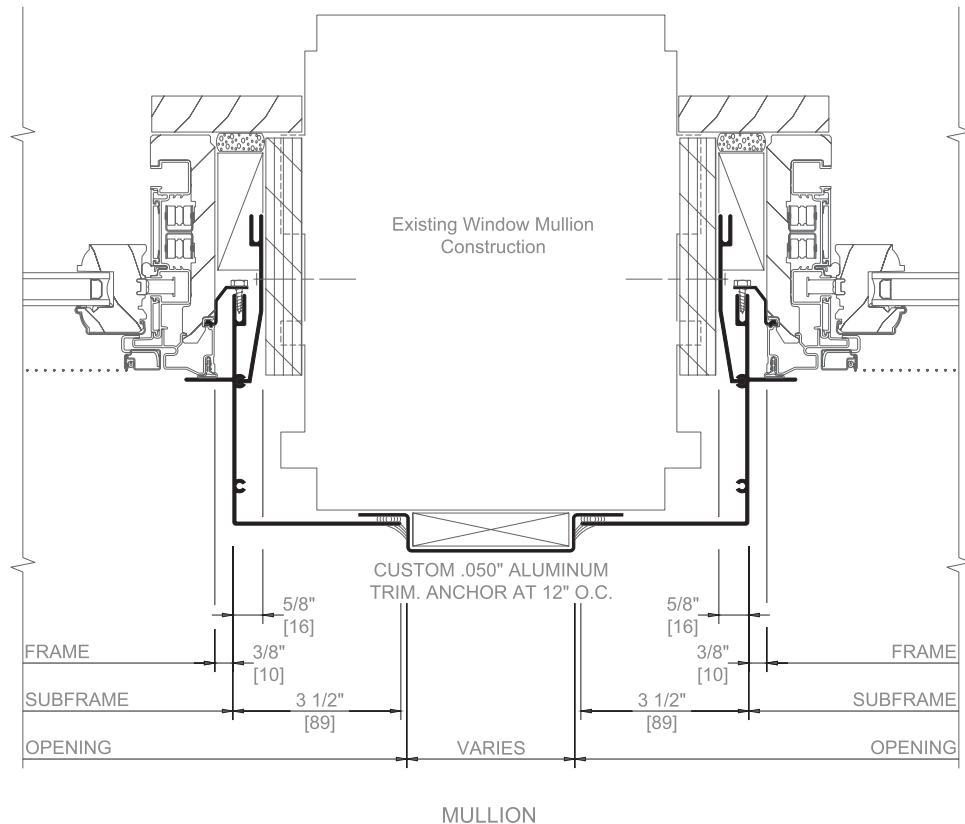


CUSTOM .05" ALUMINUM TRIM #M102



Custom .05" aluminum parts may be manufactured to enhance transitions between Subframe components. Typically used at mullions.

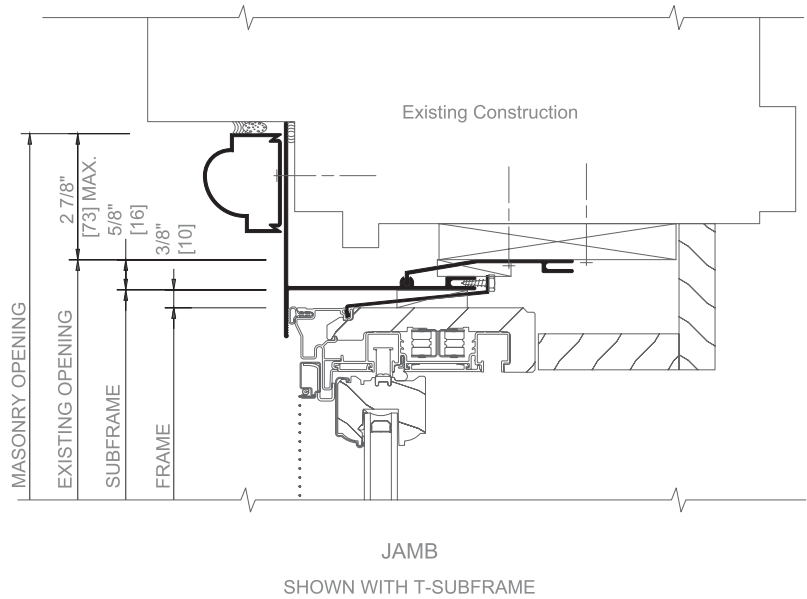
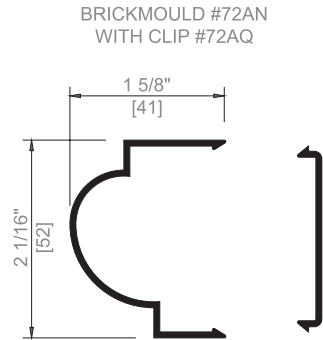
\*3-1/2" min. for 12' 0" lengths  
2" min. for 8' 0" lengths



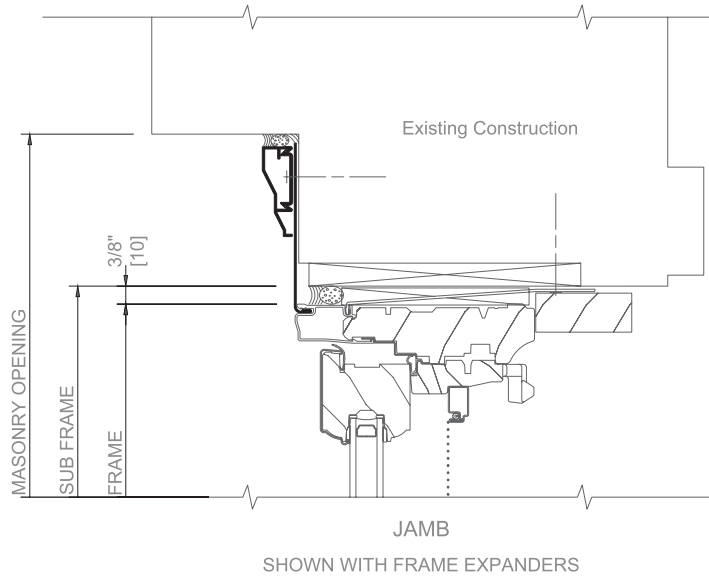
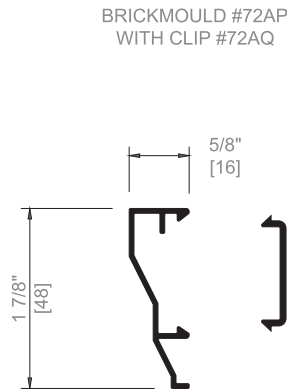


Extruded aluminum brickmoulds may be used at head and jamb to re-create existing brickmould profiles. The two shapes shown are standard. Custom shapes may be designed to meet specific job specifications. Use brickmould accessory with either a Pella Subframe or Frame Expander System.

BRICKMOULD AND ATTACHING  
CLIP ANCHOR AT 12" O.C.

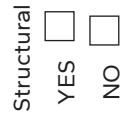


BRICKMOULD AND ATTACHING  
CLIP ANCHOR AT 12" O.C.



(For Existing Wood Double-Hung Windows)

Date: \_\_\_\_\_



Product Type: \_\_\_\_\_ Glazing: \_\_\_\_\_ Hardware/Option: \_\_\_\_\_

Pella Corporation, Pella, IA

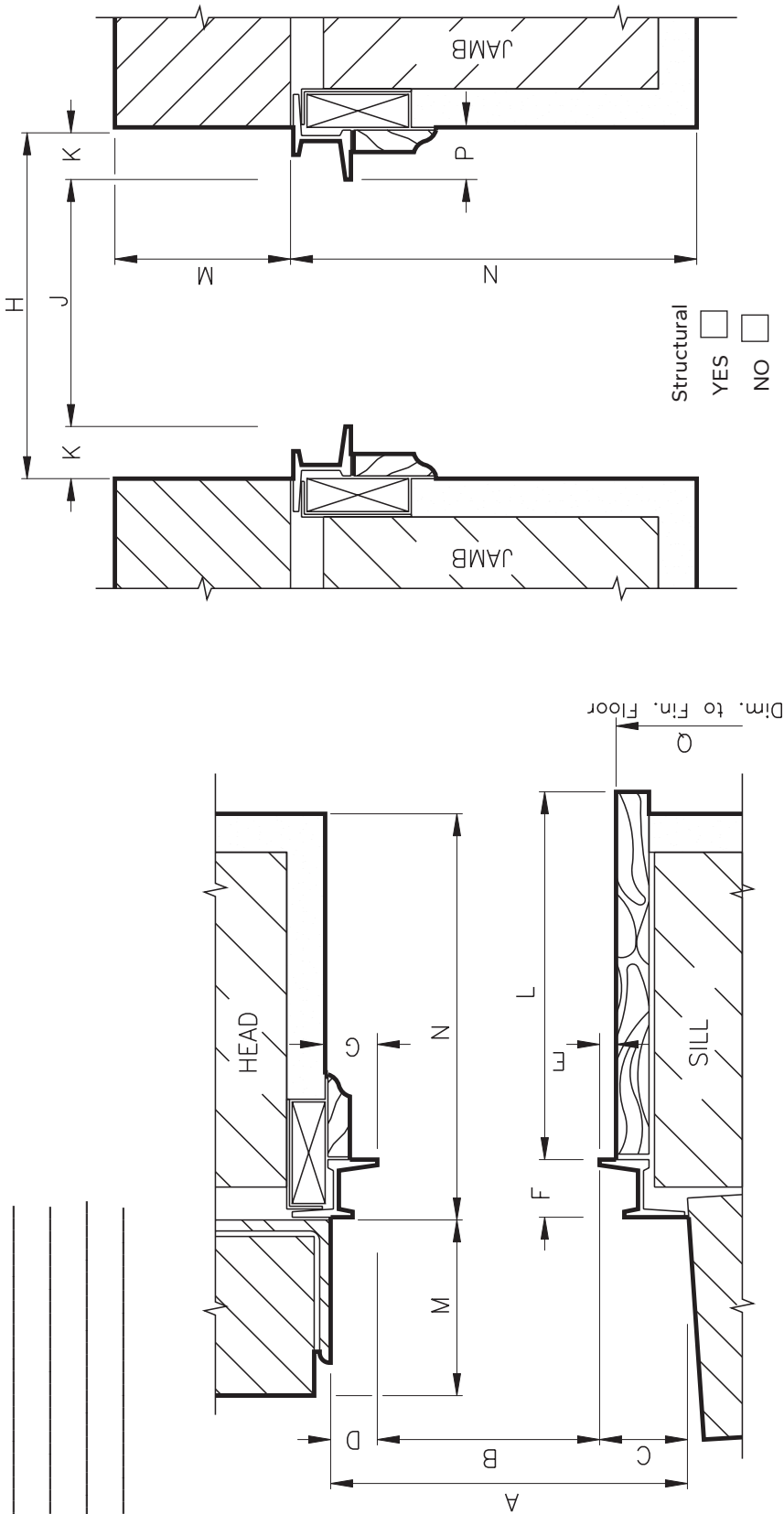
Sheet Number \_\_\_\_\_ of \_\_\_\_\_

WINDOW REPLACEMENT FIELD MEASUREMENT GUIDE

(For Existing Wood Double-Hung Windows)

Job Name: \_\_\_\_\_  
Location: \_\_\_\_\_  
Distributor: \_\_\_\_\_  
Height/Floors: \_\_\_\_\_  
Elevation: \_\_\_\_\_

Date: \_\_\_\_\_



NOTE: If existing conditions are different than shown, draw and dimension profile on another sheet.

Mark		quantity	A	B	C	D	E	F	G				
H	I	J	K	L	M	N	O	P	Q	R	S	T	U

Product Type: \_\_\_\_\_ Glazing: \_\_\_\_\_ Hardware/Option: \_\_\_\_\_  
Pella Corporation, Pella, IA Sheet Number \_\_\_\_\_ of \_\_\_\_\_