ProVia
THE PROFESSIONAL WAY

WINDOW & PATIO DOOR
TECHNICAL SPECIFICATIONS



WINDOW & PATIO DOOR
TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

Standard Features
Vinyl Windows 2
Vinyl Patio Doors 6

Aeris™
Double Hung 8
2-Lite Slider 10
Picture 12
Casement 14
Patio Door 16

Endure™
Single Hung 18
Double Hung 20
Single Slider 22
2-Lite Slider 24
3-Lite Slider 26
Picture 28
Casement 30
Patio Door 32

Aspect™
Double Hung 34
2-Lite Slider 36
3-Lite Slider 38
Picture 40
Casement 42
Patio Door 44

ecoLite™
Double Hung 46
Single Hung 48
Slider 50
Picture 52
Patio Door 54

Vinyl Window Size Limits 56



VINYL WINDOW FAMILY OF PRODUCTS

STANDARD FEATURES

	AERIS™	ENDURE™	ASPECT™	ECOLITE™
CONSTRUCTION				
3¼" Frame Depth	•	•	•	•
SunShield® Vinyl		•	•	•
Welded Frame and Sash	•	•	•	•
FineLine™ Welds		•**		
Exterior Glazing (All Picture & Shaped Windows are Interior Glazed)		•	•	•
Integral Interlock at Meeting Rail (Double Hung/Slider)	•	•	•	•
Interior and Exterior Accessory Grooves	•	•	•	•
Graphite Polystyrene Rigid Foam Insulation	•	•	o	
INNERGY® Thermal Reinforcements		•	•	
Barrier-Fin and Bulb Seal Weatherstripping	•	•	•	•

GLASS PACKAGES	1" IGU (Insulated Glass Unit)	1" IGU	¾" IGU	1" IGU	¾" IGU	¾" IGU
ComforTech™ DC	o		o		o	
ComforTech DLA	o		o		•	
ComforTech DLA-UV	•		•		o	
ComforTech DLA-HC	o		o		o	
ComforTech DLA-UV-HC	o		o		o	
ComforTech TLA & TLA-UV	o	o		o		
ComforTech TLK & TLK-UV	o	o		o		
Dual Glazed Clear						o
Dual Glazed + Low-E/Argon with Flexible Foam Spacer						•
Dual Glazed + Low-E/Argon+UV with Flexible Foam Spacer						o
Dual Glazed + Low-E/Argon+HC with Flexible Foam Spacer						o
Dual Glazed + Low-E/Argon+UV+HC with Flexible Foam Spacer						o
SCREEN						
Extruded Aluminum Screen Frame	•	•	o			
Roll Formed Screen Frame			•			•
Flex Screen®*	o	o	o			
BetterVue® Fiberglass Mesh	•	•	•			•
Heavy-Duty Fiberglass Mesh	o	o	o			
Aluminum Mesh	o	o	o			o
SeeVue® Stainless Steel Mesh	o	o	o			o

*Standard on Aeris and Endure Double Hung and Slider exterior painted units.

**Standard on laminated and painted units. Optional on white, beige and sandstone vinyl.

• Standard o Available as an Option

VINYL WINDOW FAMILY OF PRODUCTS

STANDARD FEATURES

	AERIS™	ENDURE™	ASPECT™	ECOLITE™
INTERIOR COLORS				
White		•	•	•
Beige		•	•	
Sandstone		•	•	
Laminated Woodgrain		•		
Stained or Painted	•			
Textured Matte Coal Black		o		
EXTERIOR COLORS				
White	•	•	•	•
Beige	•	•	•	
Sandstone	•	•	•	
Classic Bronze Laminate	o	o		
Painted (Standard or Trending Colors)	o	o		
Textured Matte Coal Black	o	o		
HARDWARE (DOUBLE / SINGLE HUNG & SLIDER)				
Single Action Sweep Locks & Tilt Latches			•	•
Vent Lock		•	•	•
Integrated Profile™ DA Locks/Tilt Latches	•	•	o	
HARDWARE (CASEMENT & AWNING)				
Lock Out Crank Handle	•	•	o	
Fold Away Handle			•	
Stainless Steel Hardware	o	o	o	
BALANCE SYSTEM DOUBLE & SINGLE HUNG WINDOWS				
Block and Tackle	•	•	o	
Constant Force Roller-Tilt®	o	o	•	
Constant Force Quick Tilt®				•
GLASS OPTIONS				
Internal Flat or Contoured Grids	o	o	o	o
Simulated Divided Lites (SDLs)	o	o	o	
Art Glass	o	o		
Decorative Glass	o	o		
White Blinds Between the Glass	o	o	o	
Colored Blinds Between the Glass	o	o		
Privacy Glass (Gluechip & Obscure Pebble)	o	o	o	o
Privacy Glass (Chinchilla, Waterfall, Tafffeta, Fluted & Frosted)	o	o	o	
Tinted Glass (Gray, Bronze & Green)	o	o	o	o
Tinted Glass (Blue)	o	o	o	

• Standard o Available as an Option

	AERIS	ENDURE	ASPECT	ECOLITE
WINDOW STYLES				
Double Hung	•	•	•	•
Single Hung		•		•
Double Slider	•	•	•	•
Single Slider		•		•
Casement	•	•	•	
Awning	•	•	•	
Picture	•	•	•	•
Garden		•	•	
Hopper		•	•	•
Bay & Bow	•	•	•	
Architectural Shapes	•	•	•	•
Operable Shapes		•	•	•
ACCESSORIES				
Accessory Groove Filler Strip		o	o	
Brickmold	o			
Brickmold with Nail Fin J-Channel	o	o	o	o
Drywall Return (½" or ¾")		o	o	
Flush Fin (Four Sides)	o			
Head Expander		o	o	o
Integral Nail Fin		o	o	o
Integral Nail Fin with J-Channel				o
Integrated Stucco Flange **		o		
Interior Trim Accessory		o	o	
J-Channel Cover Strip				o
Mullion Header Cover		o	o	o
Nail Fin	o	o	o	
Nail Fin with J-Channel		o	o	
Sill Extender (Four Sides)		o	o	o
Stucco Flange		o	o	o
Welded Brickmold* *offered without nail fin, without J-channel, with 1⅛" J-Channel or with ¾" J-Channel*		o	o	

*Available in White, Beige and Sandstone.

**Available for Endure Single Hung, Single Slider, Picture Window (using Single Hung profile) and Shaped Windows (using single hung profile).

• Standard o Available as an Option

VINYL PATIO DOORS FAMILY OF PRODUCTS

STANDARD FEATURES

	AERIS™	ENDURE™	ASPECT™	ECOLITE™
CONSTRUCTION				
Frame	Mechanical	Mechanical	Mechanical	Welded
Sash	Mechanical	Welded	Welded	Mechanical
FineLine™ Welded Sashes		•**		
Frame Depth	4⅞"	4⁹⁄₁₆"	4⁹⁄₁₆"	3⅞" OR 5³⁄₁₆"*
Extruded Interlocks with Dual Barrier Weatherstripping	•	•	•	•
Galvanized Steel Reinforced Sashes	•	•	•	•
Patented Sliding System with Four Adjustable 1" Wheels	•	•	•	•
Graphite Polystyrene Foam Insulation	•	•	o	
Patented Water Drainage System (Sill)	•	•	•	
GLASS PACKAGES	1" IGU (Insulated Glass Unit)	1" IGU	1" IGU	1" IGU
ComforTech™ DC	o	o	o	
ComforTech DLA	o	o	•	
ComforTech DLA-UV	•	•	o	
ComforTech DLA-HC	o	o	o	
ComforTech DLA-UV-HC	o	o	o	
ComforTech TLA & TLA-UV	o	o	o	
ComforTech TLK & TLK-UV	o	o	o	
Dual Glazed Clear with Flexible Foam Spacer				o
Dual Glazed + Low-E/Argon with Flexible Foam Spacer				•
Dual Glazed + Low-E/Argon+UV with Flexible Foam Spacer				o
Dual Glazed + Low-E/Argon+HC with Flexible Foam Spacer				o
Dual Glazed + Low-E/Argon+UV+HC with Flexible Foam Spacer				o
SCREEN				
Top-Hung, Heavy Duty Aluminum Screen Frame	•	•	•	
Aluminum Screen with Bottom Track Operation				•
BetterVue® Fiberglass Mesh	•	•	•	•
Heavy-duty Fiberglass Mesh	o	o	o	o
Aluminum Mesh	o	o	o	o
SeeVue™ Stainless Steel Mesh	o	o	o	o
SIZES (2 Lite)				
96" x 80"	•	•	•	
77⅛" x 81½" (oversize)		•	•	
74¾" x 82" (full size)		•	•	
72" x 80" and 60" x 80"	•	•	•	•
72" x 96" and 96" x 96"		•	•	
Custom Size	o	o	o	

*ecoLite Patio Doors have a 5 ³⁄₁₆" jamb depth without nail fin and a 3⅞" jamb depth with integral nail fin.
**Standard on laminated and painted units. Optional on white, beige and sandstone vinyl.

• Standard o Available as an Option

	AERIS	ENDURE	ASPECT	ECOLITE
INTERIOR COLORS				
White		•	•	•
Beige		•	•	
Sandstone		•	•	
Laminated Woodgrain		•		
Stained or Painted	•			
Textured Matte Coal Black		o		
EXTERIOR COLORS				
White	•	•	•	•
Beige	•	•	•	
Sandstone	•	•	•	
Classic Bronze Laminate	•	•		
Painted (Standard or Trending Colors)	o	o		
Textured Matte Coal Black	o	o		
HARDWARE				
AccuVent™ Venting System	•	•	o	
Footlock		o	•	o
Mortise Handleset	Signature / Modern	Signature / Modern	Classic	
Single-Point Mortise Handleset in White				•
Keylock	•	o	o	o
Multi-Point Locking System		o	o	
GLASS OPTIONS				
Art Glass	o	o		
Privacy Glass (Gluechip & Obscure Pebble)	o	o	o	o
Privacy Glass (Chinchilla, Waterfall, Taffeta, Fluted & Frosted)	o	o	o	
Tinted Glass (Gray, Bronze & Green)	o	o	o	o
Tinted Glass (Blue)	o	o	o	
White Blinds Between the Glass	o	o	o	
Colored Blinds Between the Glass	o	o		
Internal Flat or Contoured Grids	o	o	o	o
Simulated Divided Lites (SDLs)	o			
Laminated Glass	o	o	o	o
CONFIGURATIONS AND STYLES				
Sidelites & Transoms	o	o	o	
2-Lite	•	•	•	•
3-Lite & 4-Lite	o	o	o	
ACCESSORIES				
Applied Nail Fin	o	o	o	o
Brickmold & Brickmold with Nail Fin	o	o	o	o
Double Cover		o	o	
External Frame Adapter	o	o	o	o
Integral Nail Fin				•
Interior Trim		o	o	
Stucco Flange	o	o	o	o

• Standard o Available as an Option



UNDERSTANDING **AIR INFILTRATION**

WHAT IS AIR INFILTRATION AND IS IT BAD?

Air infiltration is a term that relates to air moving into a home through small spaces in doors, windows, skylights, and other means. This is the result of pressure differences between the inside and outside of the home.

To some extent, every home, regardless of age or location, needs to "breathe" so that it is not completely airtight. Well-placed and installed windows allow for natural ventilation in the home. Fresh air is needed inside the home to help eliminate odors and pollutants harmful to human health. Fresh air also helps eliminate excessive moisture that harms the building structure and furnishings and is the source of mold and mildew growth.

HOW CAN SOMEONE KNOW IF A WINDOW, DOOR OR SKYLIGHT WILL ALLOW IN TOO MUCH AIR?

Look for a WDMA Hallmark certification label on the window to determine that the product has been designed to meet air infiltration standards. Determine if the product has been Tested and authorized for WDMA Hallmark certification by researching the product in the WDMA Certified Product search.

WHAT THREE FACTORS MOST AFFECT AIR INFILTRATION THROUGH WINDOWS, DOORS OR SKYLIGHTS?

1. **PROPER INSTALLATION OF THE UNIT** (per the manufacturer's instructions). It should be installed square, level and plumb, with insulation present around the rough opening and tucked up to the main frame.

2. **OUTSIDE CONDITIONS** - this includes the location of the product on the home, air temperature difference from inside to outside, wind speed and other weather factors.

3. **PRODUCT TYPE -** A double hung or other operable unit will usually allow more air to pass into the home than a fixed unit (such as a picture window) because it's designed to open. Remember, when closed tightly, even certified operable units permit acceptable levels of air infiltration that may seem excessive.

WHY DO SOME WINDOWS HAVE MORE AIR INFILTRATION THAN OTHERS?

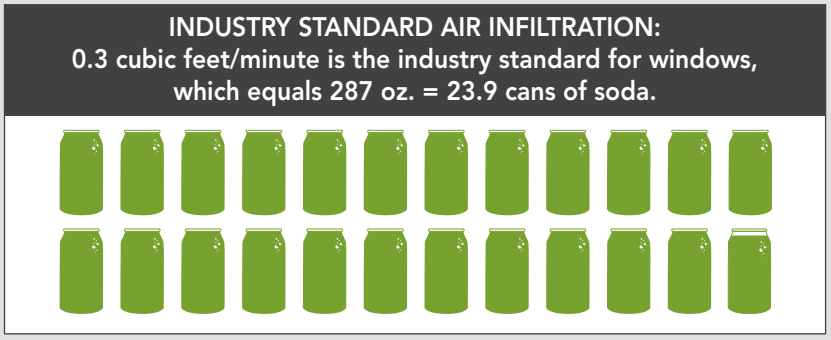
A fixed window that does not open is the most airtight. Compression-sealed operable units, such as casements, are the next most airtight. Operable windows with sliding seals such as double hung and slider units are traditionally the least airtight. It may also be in a part of your home that does not get direct wind contact. **All windows have some level of air infiltration. WDMA-certified products are designed to meet or exceed the industry standard of less than 0.3 cubic feet per minute.**

REMEMBER:

- ✓ Care and maintenance of your windows is extremely important to ensure performance.
- ✓ The proper installation of the unit per the manufacturer's instructions is also integral to ensuring performance.

ProVia® Windows are engineered and tested for minimum air infiltration and the best possible energy efficiency.

Throughout this brochure, each window and sliding patio door page will feature a section on air infiltration represented by an infographic. The infographic will help you visualize how much air leakage happens per minute by turning the Cubic Feet per Minute into the number of equivalent 12 oz. soda cans.



AERIS™ DOUBLE HUNG



Standard Features

Premium Oak, Cherry or Maple hardwood interior

3¼" frame depth

Proprietary European formulation vinyl

1" ComforTech™ DLA-UV glass package

Welded frame and sash construction

Block and Tackle balance system (Constant Force balance system may be required for extremely large or small window sizes)

Interior glazing

Extruded sloped sill

Wood lift at lock rail

Graphite polystyrene rigid foam insulation

Dual weatherstripping

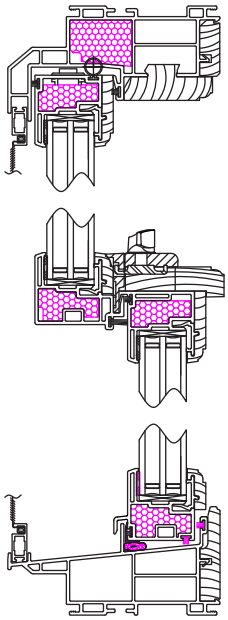
Two Profile™ DA sweep locks with integrated tilt latches

Extruded aluminum full screen with BetterVue® fiberglass mesh

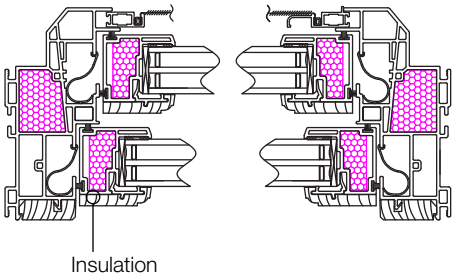
Jamb pocket color coordinates with stain and paint colors

Assemblies

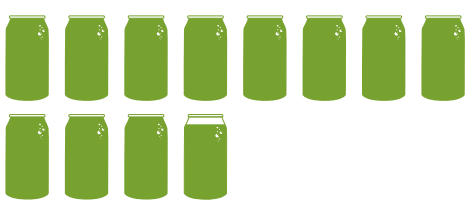
Side View



Top View

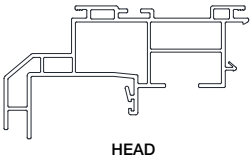


AIR INFILTRATION
0.15 Cubic Feet / Minute = 143.6 oz.

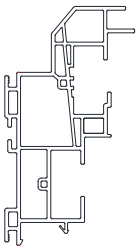


Aeris Double Hung 40" x 63"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.15 cfm/ft² @ 25 mph
Water	ASTM E 547	9.19 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8 and 11	DP55 148 mph

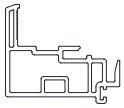
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



HEAD



JAMB



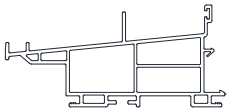
KEEPER RAIL



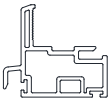
LOCK RAIL



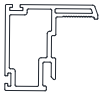
1" GLAZING BEAD



SLOPED SILL

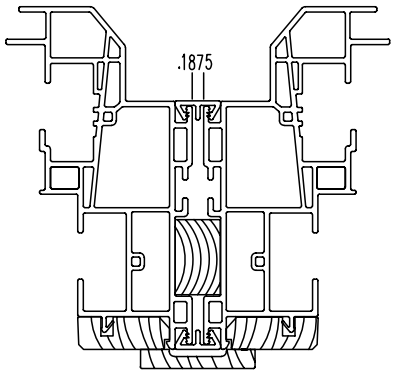
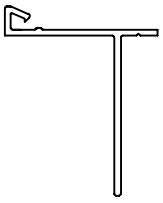
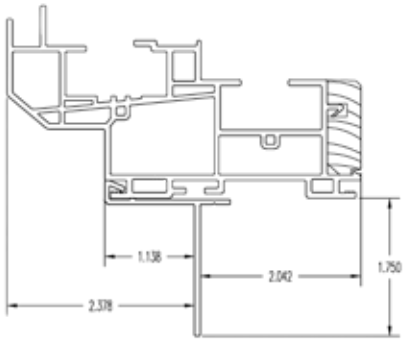
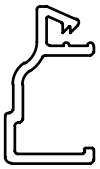
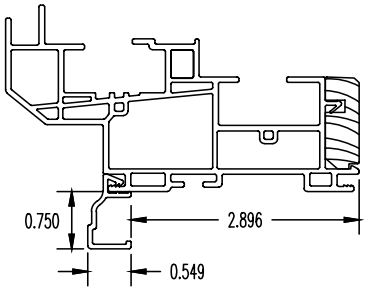
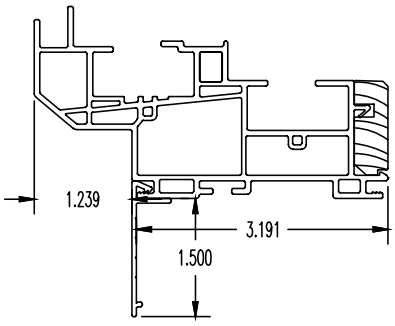
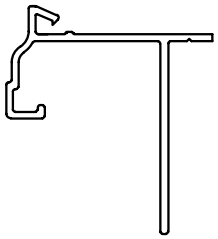
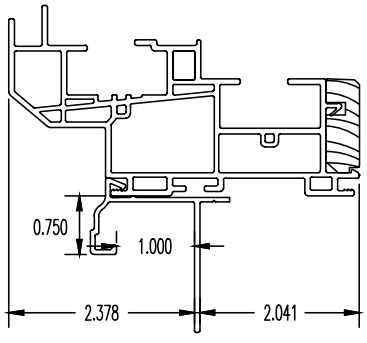


SILL SASH



COMMON SASH

Accessories

Joining Mullion	Nail Fin	Brickmold
AM75 Mullion		Brickmold
 	 	 
Exterior Cover		
Flush Fin		Brickmold Nail Fin with J-Channel
 		 

AERIS™ 2-LITE SLIDER

Standard Features

Premium Oak, Cherry or Maple hardwood interior

3¼" frame depth

Proprietary European formulation vinyl

1" ComforTech™ DLA-UV glass package

Welded frame and sash construction

Interior glazing

Brass rollers

Graphite polystyrene rigid foam insulation

Dual weatherstripping

Two passive Profile™ SA sweep locks

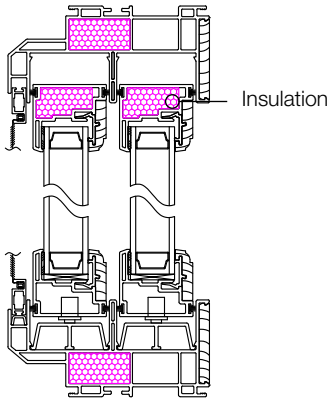
Extruded aluminum full screen with BetterVue® fiberglass mesh

Jamb pocket color coordinates with stain and paint colors

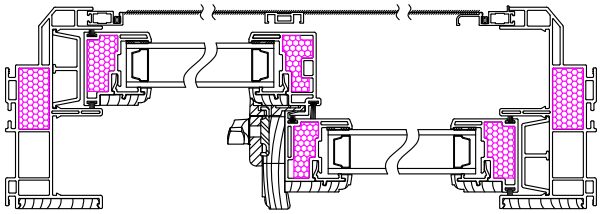


Assemblies

Side View



Top View

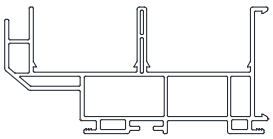


AIR INFILTRATION
0.11 Cubic Feet / Minute = 105.3 oz.

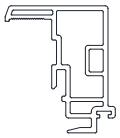


Aeris Slider 63" x 44"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.11 cfm/ft² @ 25 mph
Water	ASTM E 547	7.52 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8 and 11	DP50 141 mph

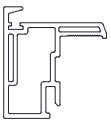
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



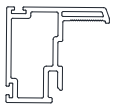
MASTER FRAME



KEEPER RAIL



LOCK RAIL



COMMON SASH

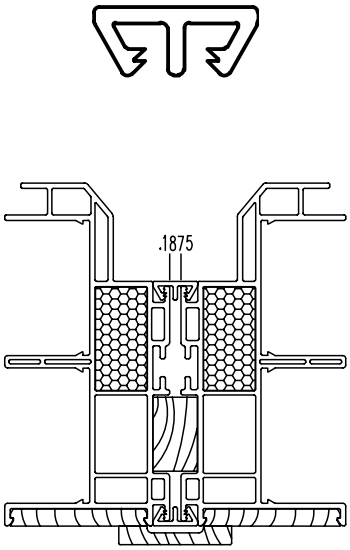
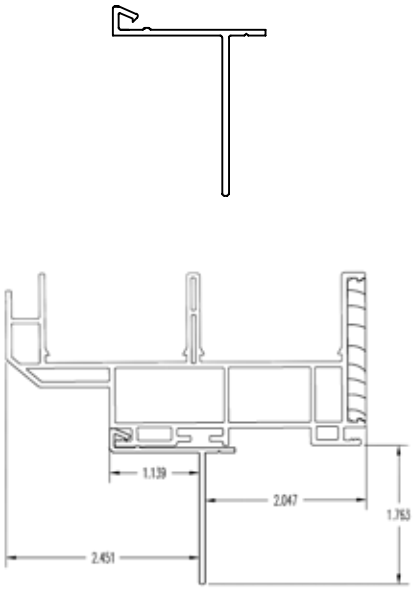
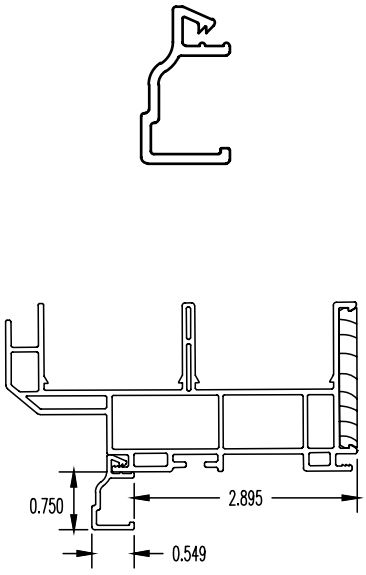
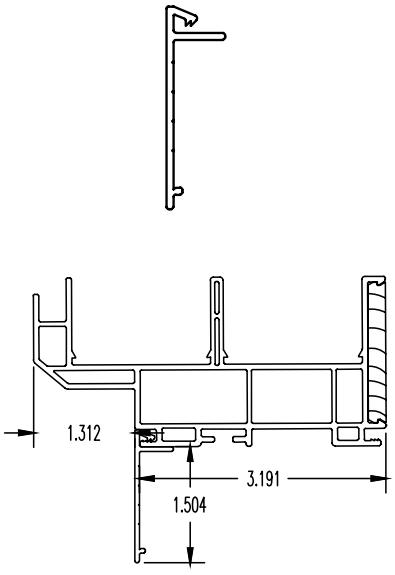
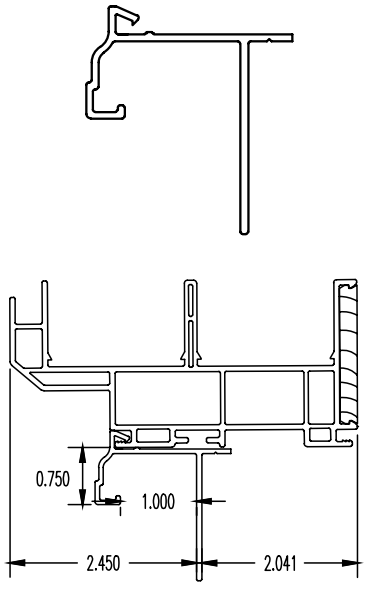


SLIDER TRACK



1" GLAZING BEAD

Accessories

Joining Mullion	Nail Fin	Brickmold
AM75 Mullion		Brickmold
		
Exterior Cover		
Flush Fin		Brickmold Nail Fin with J-Channel
		

AERIS™ PICTURE



Standard Features

Premium Oak, Cherry or Maple hardwood interior

3¼" frame depth

Proprietary European formulation vinyl

1" ComforTech™ DLA-UV glass package

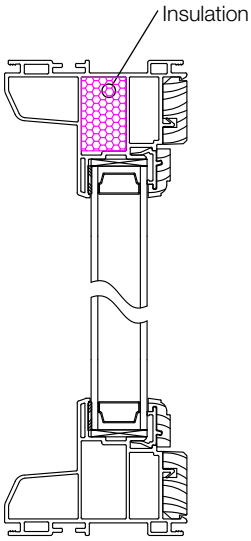
Fully welded construction

Direct glazed frame

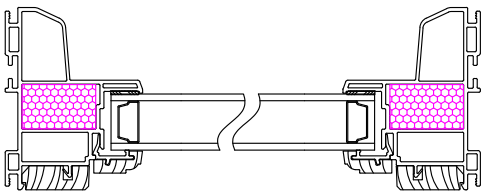
Graphite polystyrene rigid foam insulation

Assemblies

Side View



Top View

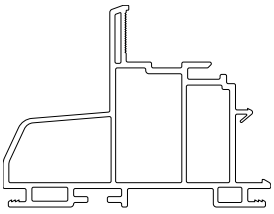


AIR INFILTRATION
0.04 Cubic Feet / Minute = 38.3 oz.



Aeris Picture 56" x 56"		
TEST	TEST SPECIFICATION	RESULTS
Air	ASTM E 283	0.04 cfm/ft² @ 25 mph
Water	ASTM E 547	7.52 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-22	DP50 141 mph

Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.

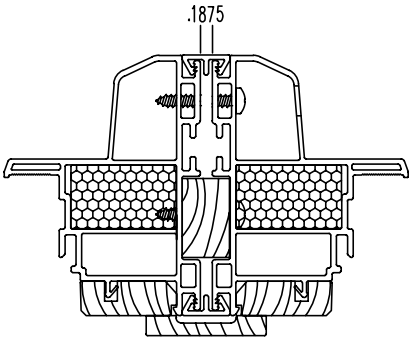
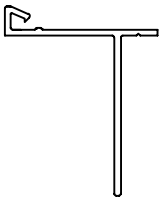
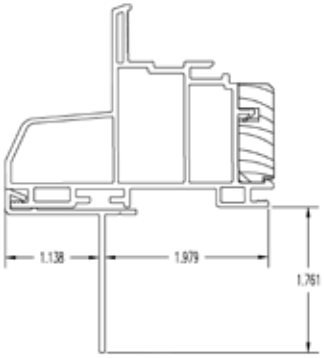
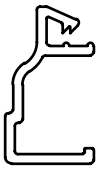
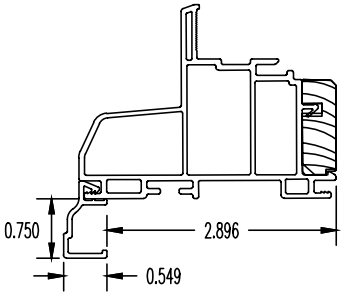
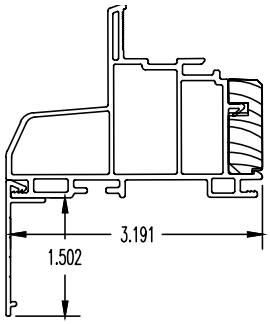
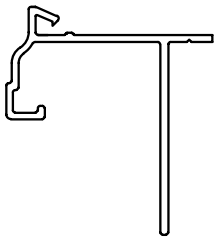
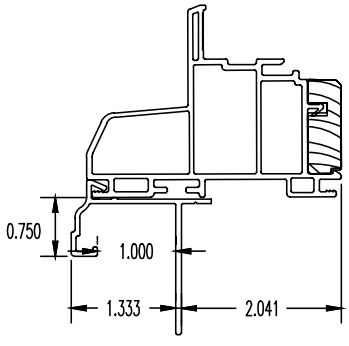


FRAME



1" GLAZING BEAD

Accessories

Joining Mullion	Nail Fin	Brickmold
AM75 Mullion		Brickmold
 	 	 
Exterior Cover		
Flush Fin		Brickmold Nail Fin with J-Channel
 		 

AERIS™ CASEMENT



Standard Features

Premium Oak, Cherry or Maple hardwood interior

3¼" frame depth

Proprietary European formulation vinyl

1" ComforTech™ DLA-UV glass package

Welded frame and sash construction

Interior glazing

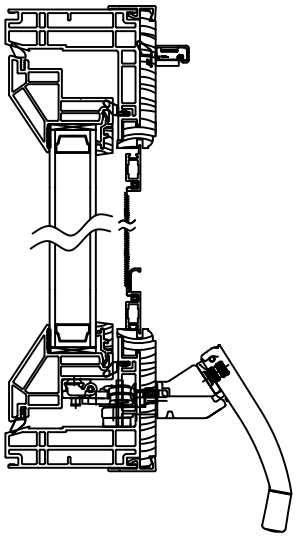
Multi-point locking hardware system

Washability hinge

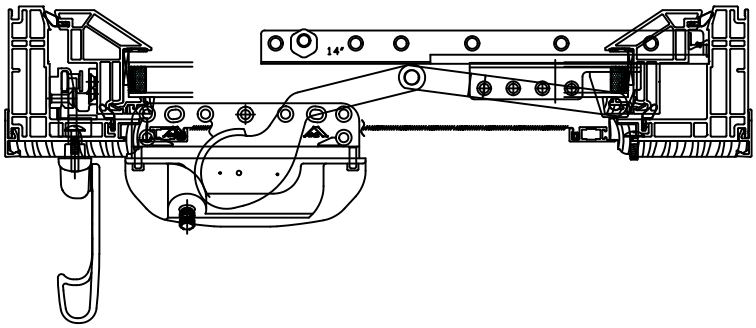
Extruded aluminum screen with BetterVue® fiberglass mesh

Assemblies

Side View



Top View

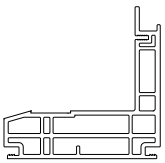


AIR INFILTRATION
0.05 Cubic Feet / Minute = 47.9 oz.

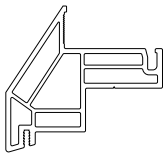


Aeris Casement 32" x 60"		
TEST	TEST SPECIFICATION	RESULTS
Air	ASTM E 283	0.05 cfm/ft² @ 25 mph
Water	ASTM E 547	8.35 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8 and 11	DP50 141mph

Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



CASEMENT FRAME

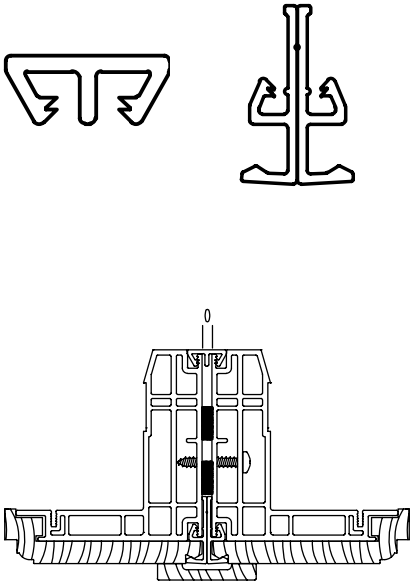
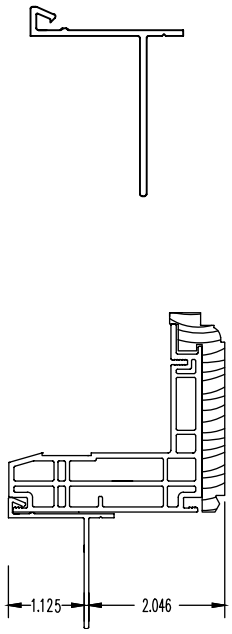
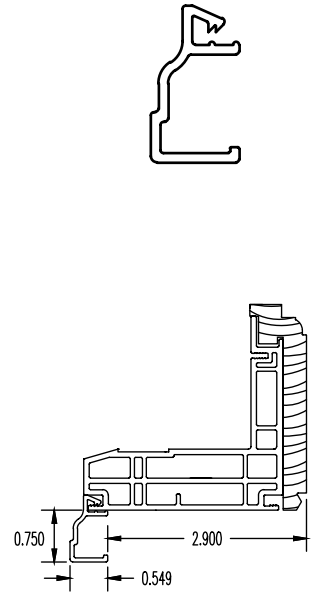


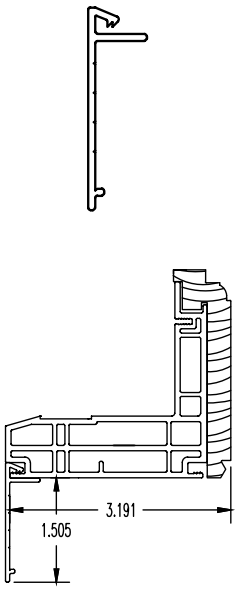
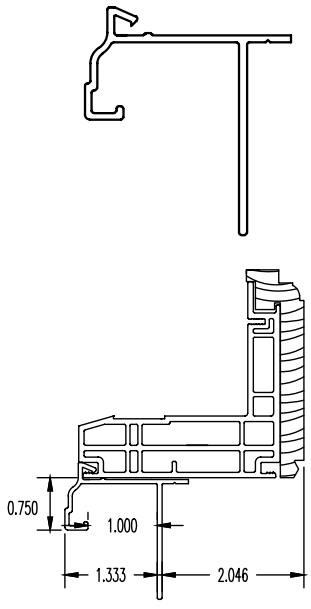
SASH



1" GLAZING BEAD

Accessories

Joining Mullion	Nail Fin	Brickmold
AM75 & AF49 Mullion	Nail Fin	Brickmold
		

Exterior Cover		
Flush Fin		Brickmold Nail Fin with J-Channel
		

AERIS™ PATIO DOOR

Standard Features

Galvanized steel reinforced panels

Patented water drainage system in sill

Strong, multi-chambered profiles

Graphite polystyrene rigid foam insulation

4⅞" frame depth

AccuVent™ vent lock

Patented sliding system featuring 4 adjustable 1" wheels per operating panel

Top hung, heavy duty aluminum screen frame suspended by ball bearing rollers

BetterVue® fiberglass screen mesh

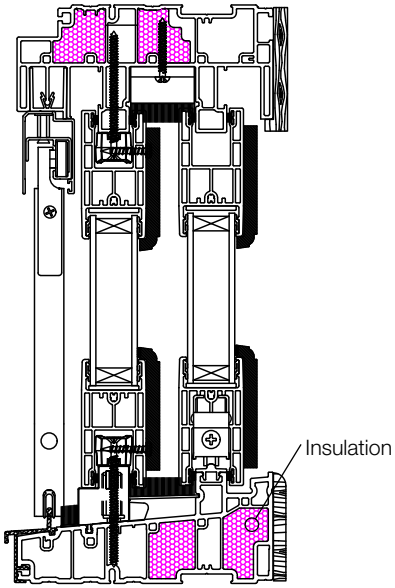
Spring loaded screen latch system includes interior locking feature

1" ComforTech™ DLA-UV glass package

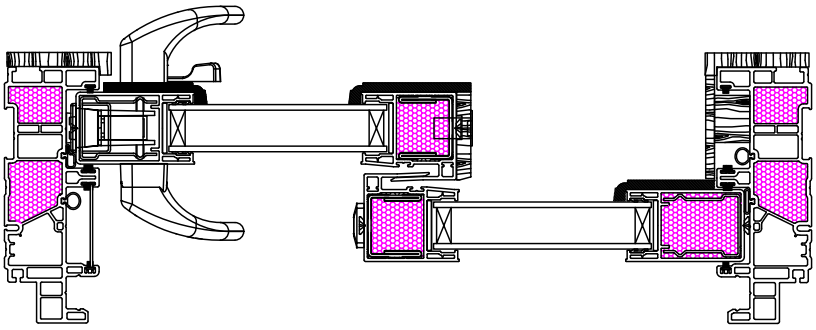


Assemblies

Side View



Top View



AIR INFILTRATION
0.03 Cubic Feet / Minute = 28.7 oz.

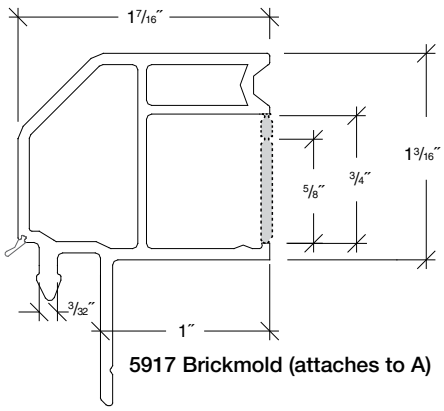


Aeris Patio Door 72" x 82"

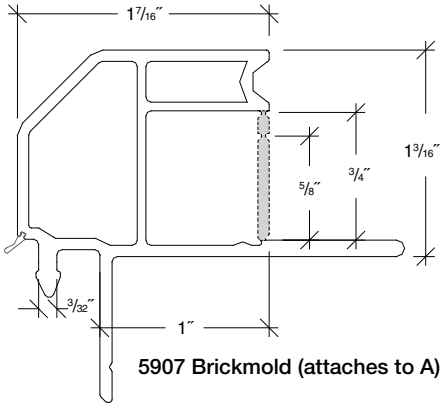
TEST	TEST SPECIFICATION	RESULTS
Air	AAMA/WDMA/CSA 101/I.S.2/A440-08 par. 5.3.2.2 & ASTM-E283-04	0.03 cfm/ft² @ 25 mph
Water	AAMA/WDMA/CSA 101/I.S.2/A440-08 par. 5.3.3.2 & ASTM-E547-00 (2009)	9.00 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-08 par. 5.3.4.3 & ASTM-E330-02 (2010)	DP60 155 mph

Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.

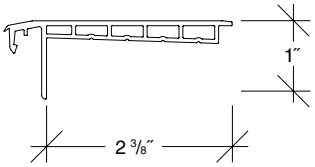
Accessories



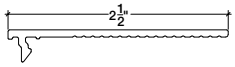
5917 Brickmold (attaches to A)



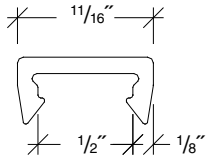
5907 Brickmold (attaches to A)



5938 Stucco Flange
(attaches to A)

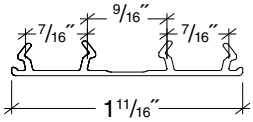


5927 External Frame Adapter
(attaches to A)



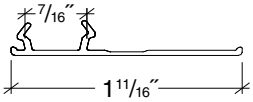
5928 0° Mullion Cover
(attaches to A)

5929 Zero Degree Mull
available for heavy reinforced
patio doors

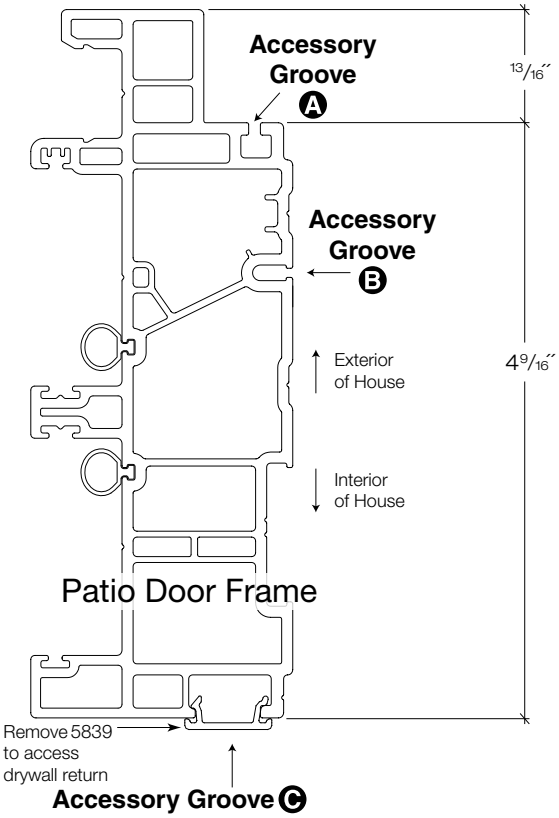


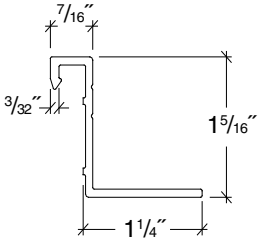
5840 Double Cover
(attaches to C)

5847 Double Cover available
for heavy reinforced patio
doors

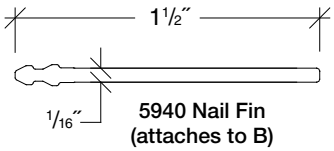


5892 Interior Trim
(attaches to C)

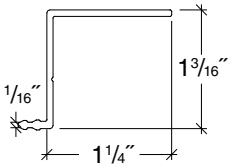




5956 Nail Fin
(attaches to A)
(will decrease jamb depth)



5940 Nail Fin
(attaches to B)
(will decrease jamb depth)



5945 Nail Fin
(attaches to B)

ENDURE™ SINGLE HUNG

Standard Features

3¼" Frame depth

SunShield® vinyl

Welded frame and sash construction

FineLine™ welded corners (optional)

Exterior glazing - active sash

Interior glazing - fixed glass

Cove sash profile

Graphite polystyrene rigid foam insulation

INNERGY® thermal reinforcements

Barrier fin & bulb seal weatherstripping

¾" DLA-UV ComforTech™ glass package

Half FlexScreen® (standard)

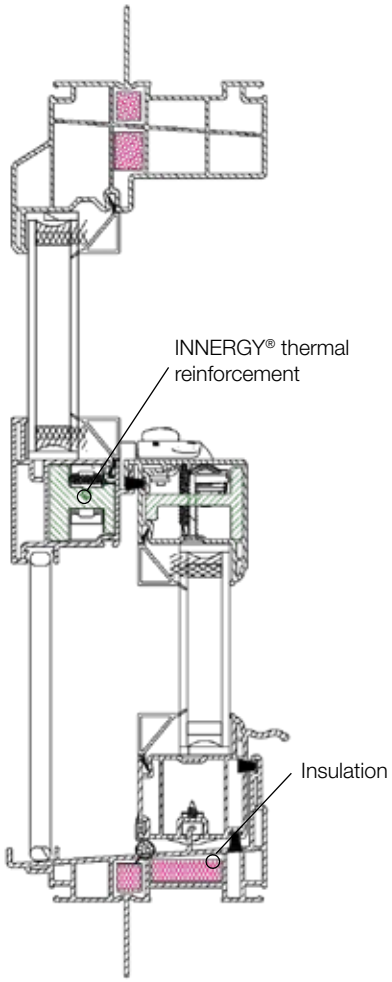
Extruded aluminum screen frame with Bettervue® fiberglass mesh (optional)

Profile™ DA (Dual Action) hardware

Integral interlock

Block & tackle balance system

Side View





This image is 3-D rendered.

Assemblies

Top View

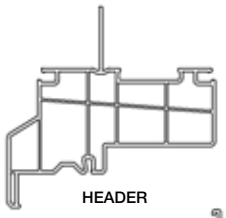


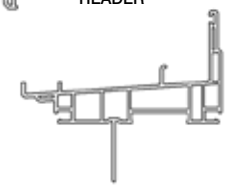
AIR INFILTRATION
0.06 Cubic Feet / Minute = 57.5 oz.

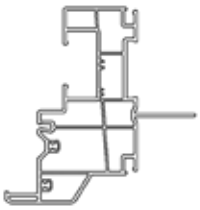


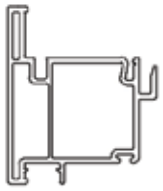
Endure Single Hung 44" x 75"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.06 cfm/ft² @ 25 mph
Water	ASTM E 547	7.52 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8 and 11	DP50 141 mph

Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.


HEADER


SILL


JAMB

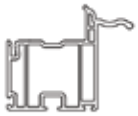

FIXED MEETING RAIL


GLAZING BEAD

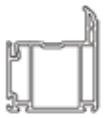

LOCK SASH RAIL


KEEPER REBAR


SCREEN ADAPTER


PULL/LIFT RAIL


LOCK RAIL REBAR


BIG VERTICAL SASH RAIL

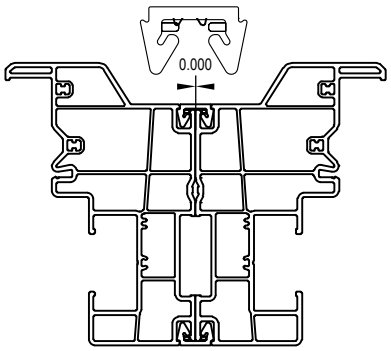

BALANCE COVER

Accessories

Joining Mullion

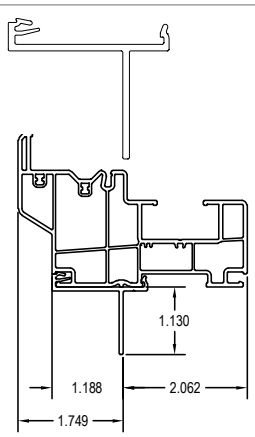
0° Mullion

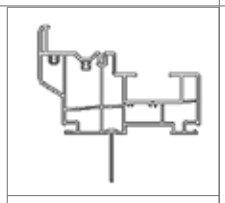
Not available with Integrated Stucco Flange.



Nail Fin

Nail Fin

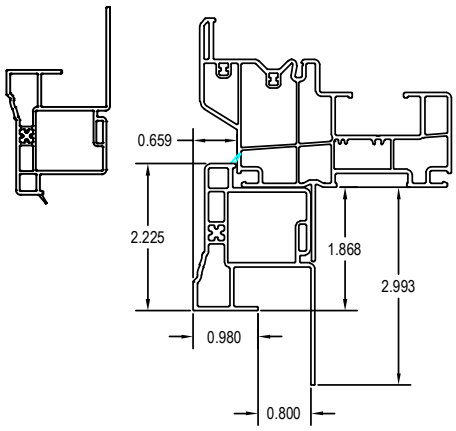




Integral Nail Fin

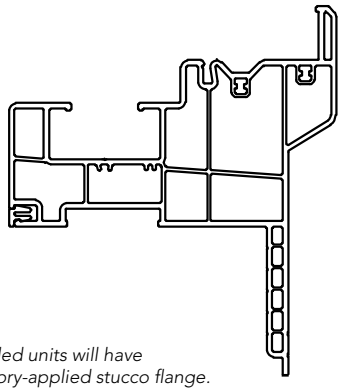
Brickmold

Brickmold Nail Fin with J-Channel



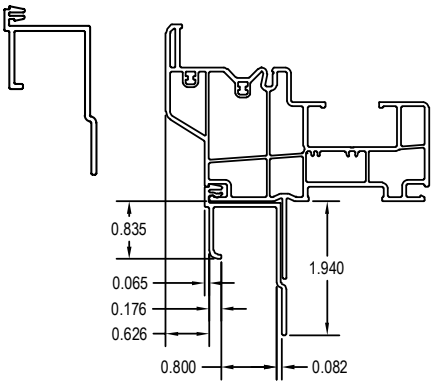
Exterior Cover

Integrated Stucco Flange



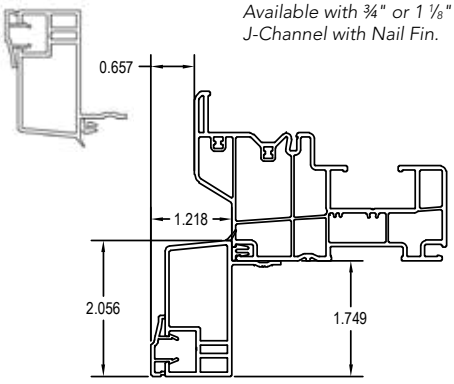
Mulled units will have factory-applied stucco flange.

Nail Fin with J-Channel

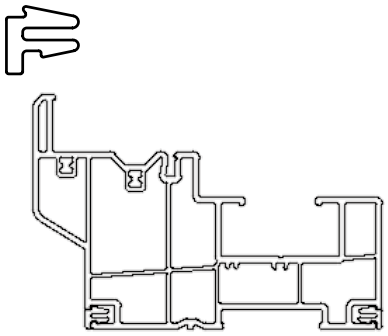


Welded Brickmold

Available with ¾" or 1 ⅛" J-Channel with Nail Fin.

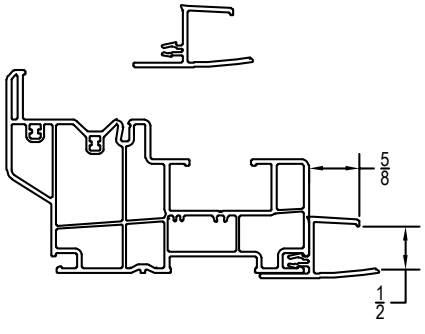


Accessory Groove Filler Strip

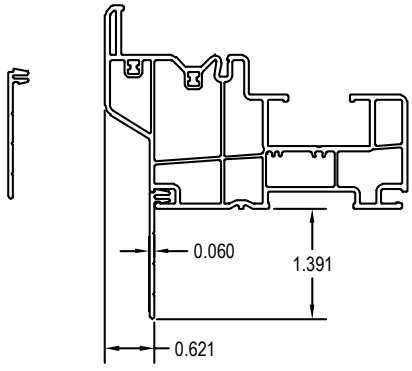


1/2" Drywall Return

Interior application only.



Sill Extender



ENDURE™ DOUBLE HUNG

Standard Features

3¼" frame depth

SunShield® vinyl

¾" ComforTech™ DLA-UV glass package

Welded frame and equal lite sash construction

Block and Tackle balance system (Constant Force balance system may be required for extremely large or small window sizes)

Exterior glazing

Extruded sloped sill

Graphite polystyrene rigid foam insulation

INNERGY® thermal reinforcements

Cove sash profile

Triple weatherstripping

Two Profile™ DA sweep locks with integrated

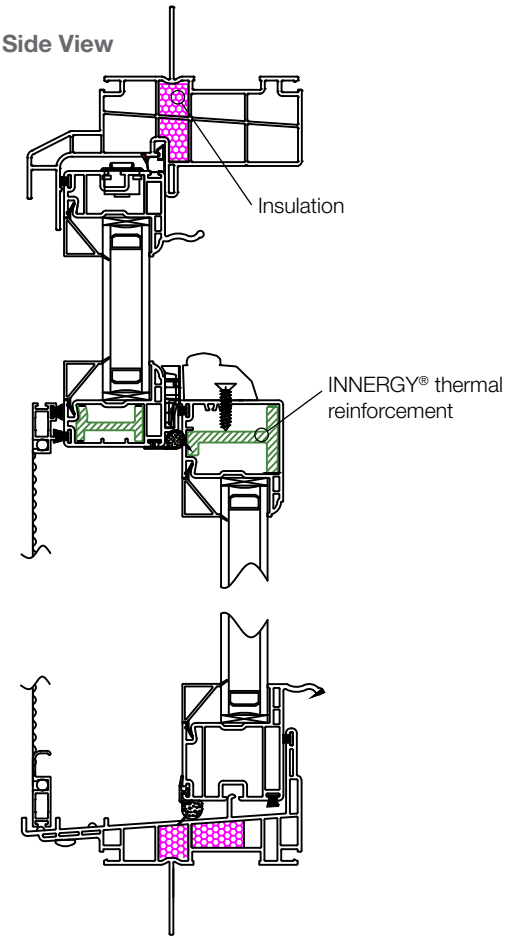
Tilt latches

Dual vent locks

Extruded aluminum half screen with BetterVue® fiberglass mesh

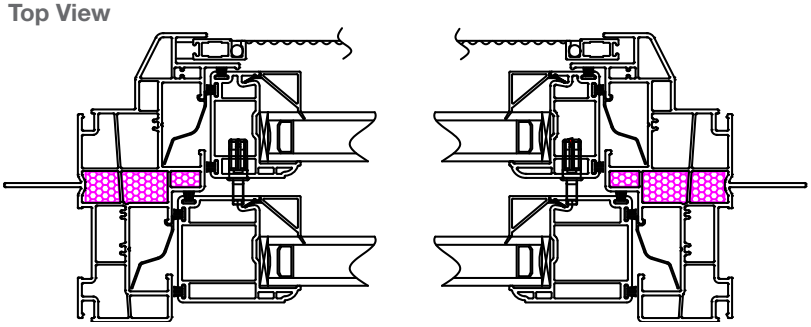
Assemblies

Side View





Top View

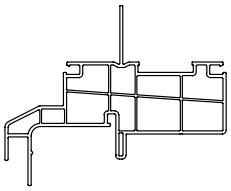


AIR INFILTRATION
0.05 Cubic Feet / Minute = 47.9 oz.

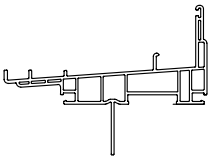


Endure Double Hung 44" x 75"		
TEST	TEST SPECIFICATION	RESULTS
Air	ASTM E 283	0.05 cfm/ft² @ 25 mph
Water	ASTM E 547	7.52 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8 and 11	DP50 141 mph

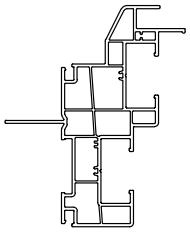
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



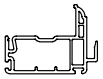
HEADER



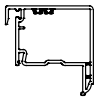
SILL



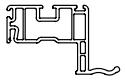
JAMB



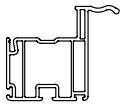
KEEPER SASH RAIL



LOCK SASH RAIL



PULL SASH RAIL



LIFT SASH RAIL



¾" GLAZING BEAD



VERTICAL BOTTOM SASH RAIL



VERTICAL TOP SASH RAIL



KEEPER RAIL REBAR



LOCK RAIL REBAR

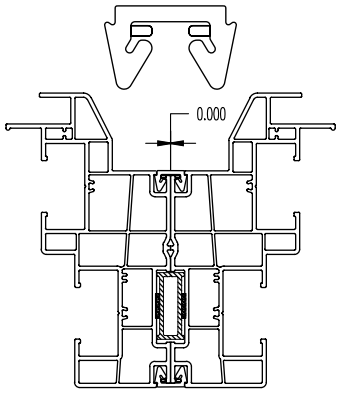


1" GLAZING BEAD

Accessories

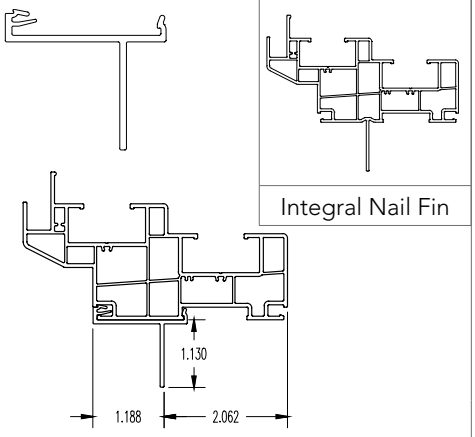
Joining Mullion

0° Mullion



Nail Fin

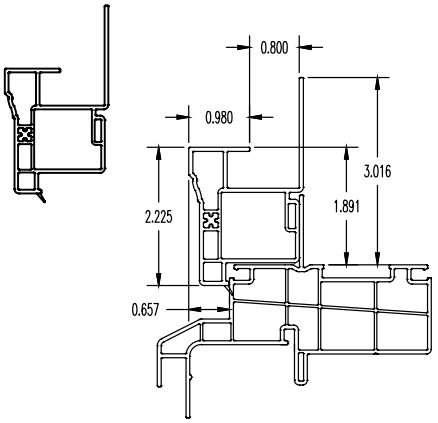
Nail Fin



Integral Nail Fin

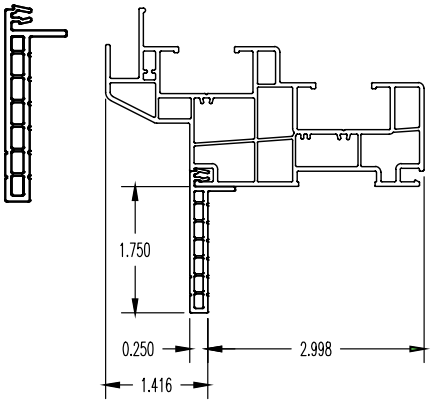
Brickmold

Brickmold Nail Fin with J-Channel

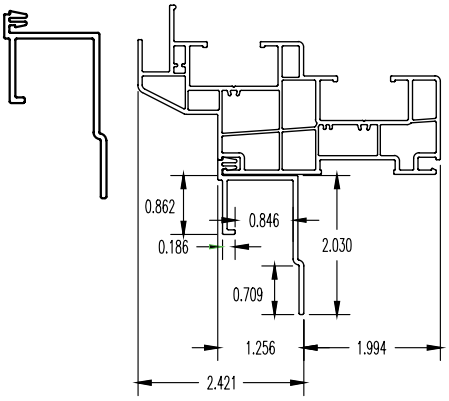


Exterior Cover

Stucco Flange

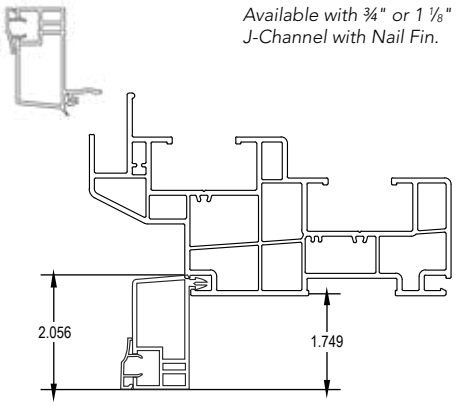


Nail Fin with J-Channel

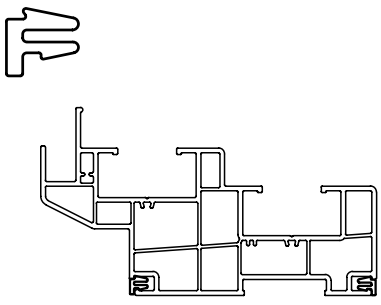


Welded Brickmold

Available with ¾" or 1 ⅛" J-Channel with Nail Fin.

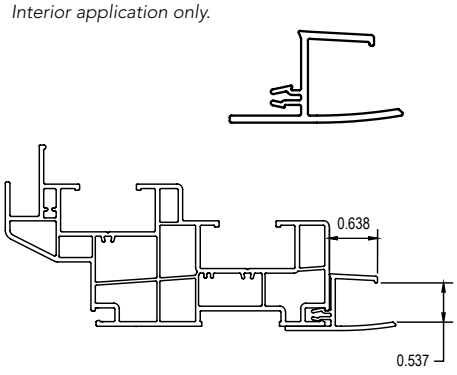


Accessory Groove Filler Strip

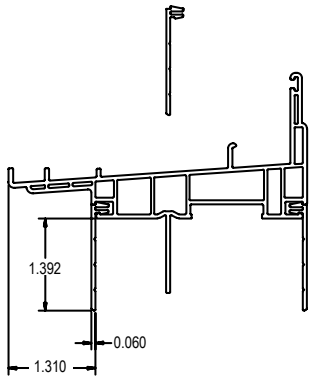


1/2" Drywall Return

Interior application only.



Sill Extender



ENDURE™ SINGLE SLIDER

Standard Features

3 ¼" frame depth

Sunshield® vinyl

Welded frame and sash construction

FineLine™ welded corners (optional)

Exterior glazing - active sash

Interior glazing - fixed glass

Cove sash profile

Graphite polystyrene rigid foam insulation

INNERGY® thermal reinforcements

Dual weatherstripping

¾" DLA-UV ComforTech™ glass package

Half FlexScreen (standard)

Extruded aluminum screen frame with BetterVue® fiberglass mesh (optional)

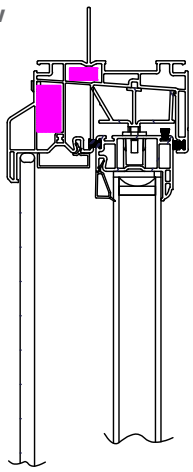
Two passive Profile™ SA sweep locks

Integral Interlock

Brass rollers

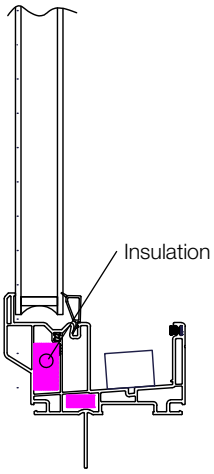
Assemblies

Side View

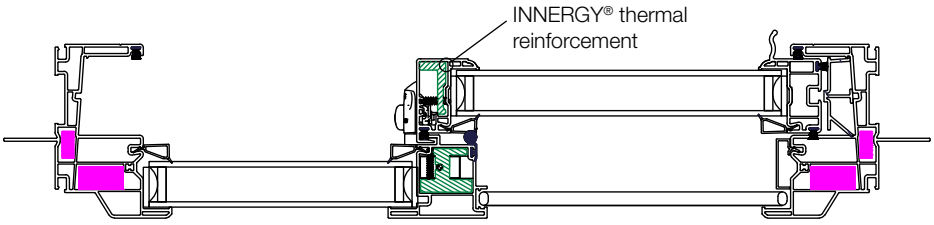




This image is 3-D rendered.



Top View

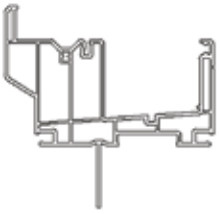


AIR INFILTRATION
0.06 Cubic Feet / Minute = 57.5 oz.

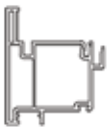


Endure Single Slider 72" x 60"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.07 cfm/ft² @ 25 mph
Water	ASTM E 547	5.43 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-11-17	DP25 99 mph

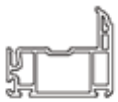
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



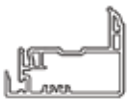
FRAME



FIXED MEETING RAIL



KEEPER SASH RAIL



LOCK SASH RAIL



PULL SASH RAIL



SCREEN ADAPTER



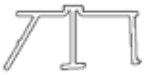
GLAZING BEAD



LOCK RAIL REBAR



SCREEN HEADER CLIP

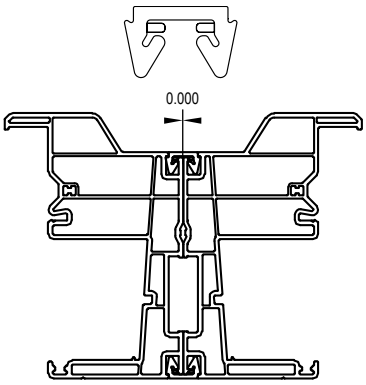
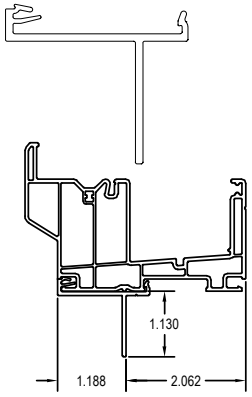
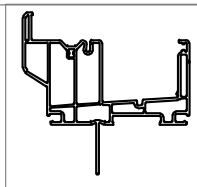
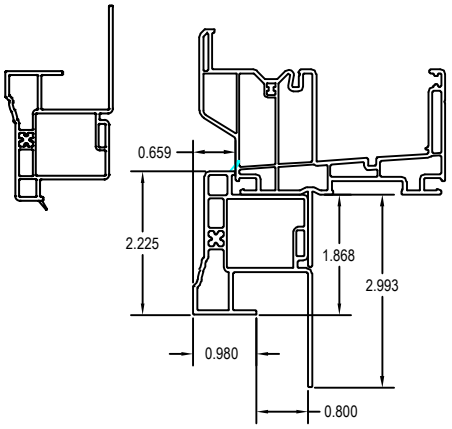
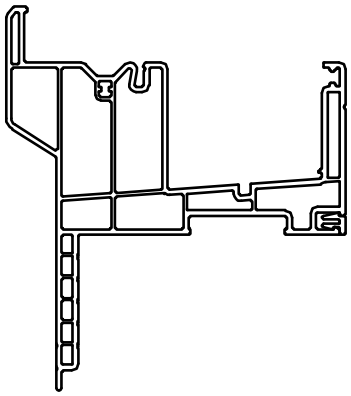
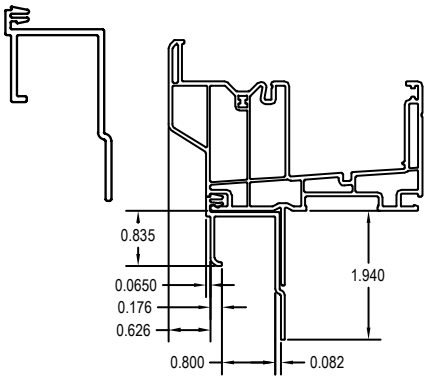
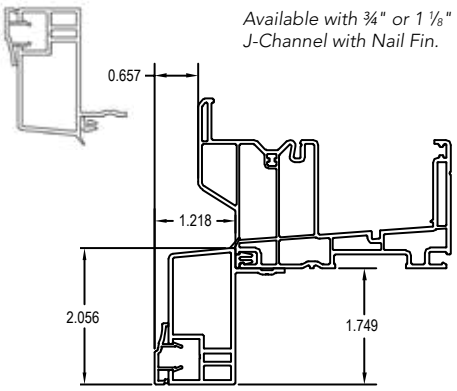
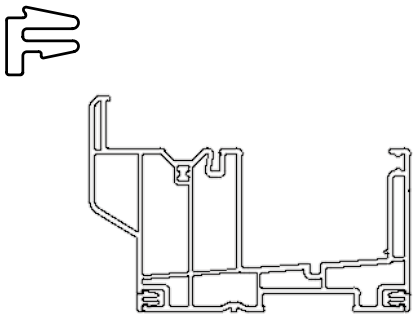
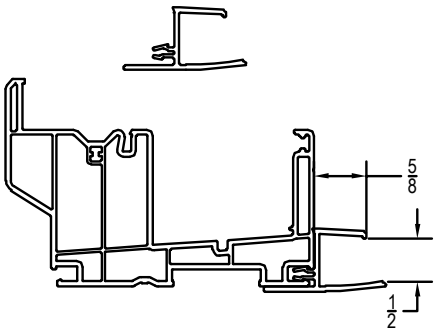
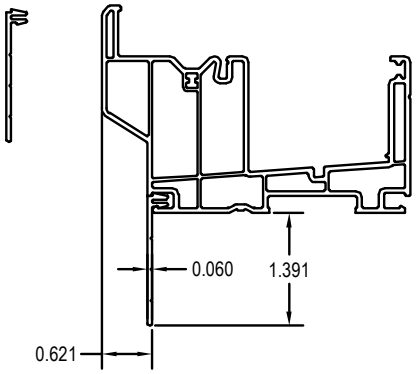


SLIDER TRACK



FRAME REBAR

Accessories

Joining Mullion	Nail Fin	Brickmold
0° Mullion	Nail Fin	Brickmold Nail Fin with J-Channel
		Integral Nail Fin  
Exterior Cover		
Integrated Stucco Flange	Nail Fin with J-Channel	Welded Brickmold
		*Available with ¾" or 1 ⅛" J-Channel with Nail Fin.* 
Accessory Groove Filler Strip	**1/2" Drywall Return**	**Sill Extender**
	*Interior application only.* 	

ENDURE™ 2-LITE SLIDER

Standard Features



3¼" frame depth

SunShield® vinyl

¾" ComforTech™ DLA-UV glass package

Welded frame and sash construction

Exterior glazing

Graphite polystyrene rigid foam insulation

INNERGY® thermal reinforcements

Brass rollers

Cove sash profile

Dual weatherstripping

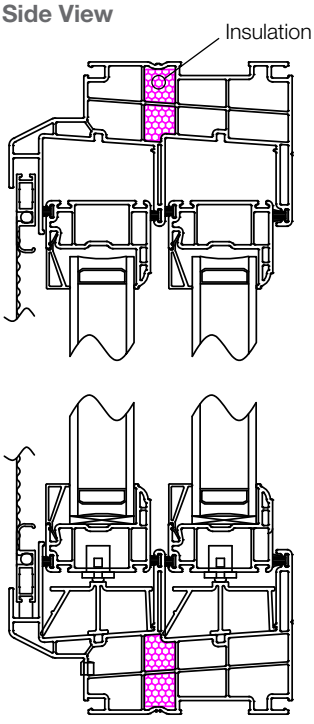
Two passive Profile™ SA sweep locks

Extruded aluminum half screen with BetterVue® fiberglass mesh

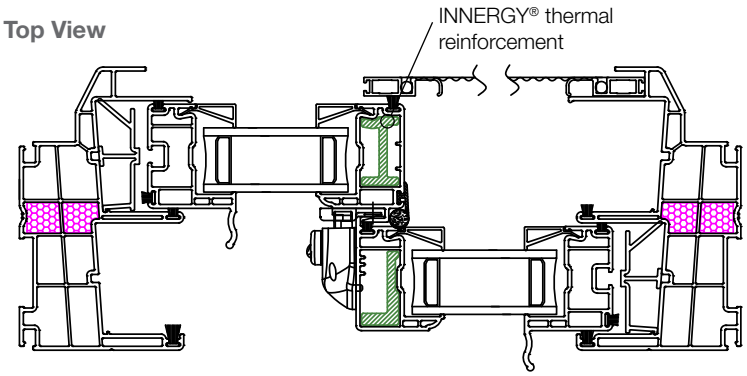
Vent lock

Assemblies

Side View



Top View

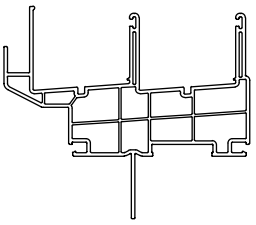


AIR INFILTRATION
0.07 Cubic Feet / Minute = 67.0 oz.

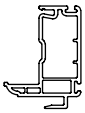


Endure 2-Lite Slider 72" x 60"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.07 cfm/ft² @ 25 mph
Water	ASTM E 547	5.43 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-11-17	DP25 99 mph

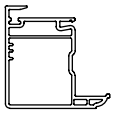
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



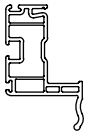
FRAME



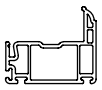
KEEPER SASH RAIL



LOCK SASH RAIL



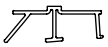
PULL SASH RAIL



HORIZONTAL SASH RAIL



¾" GLAZING BEAD



SLIDER TRACK



KEEPER RAIL REBAR



LOCK RAIL REBAR

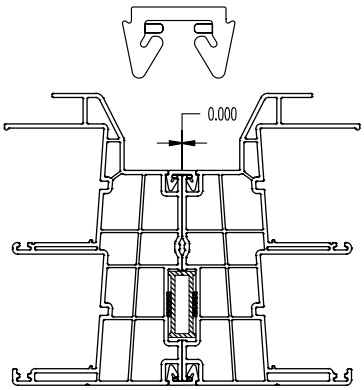


1" GLAZING BEAD

Accessories

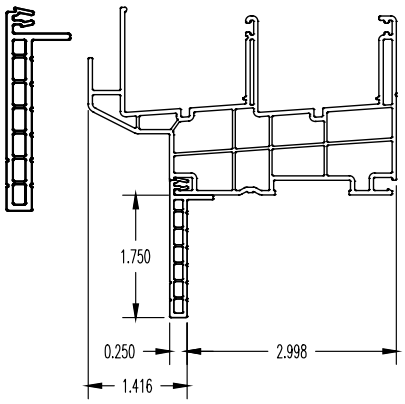
Joining Mullion

0° Mullion



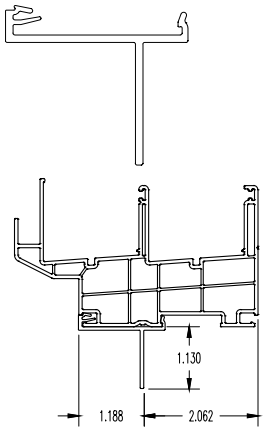
Exterior Cover

Stucco Flange

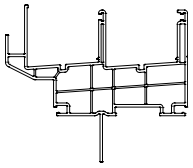


Nail Fin

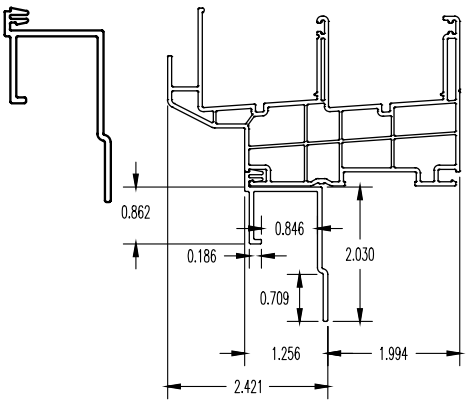
Nail Fin



Integral Nail Fin

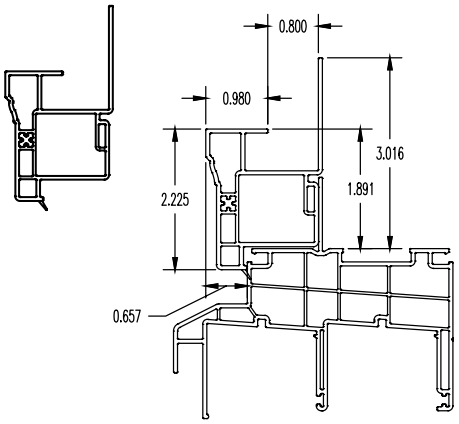


Nail Fin with J-Channel



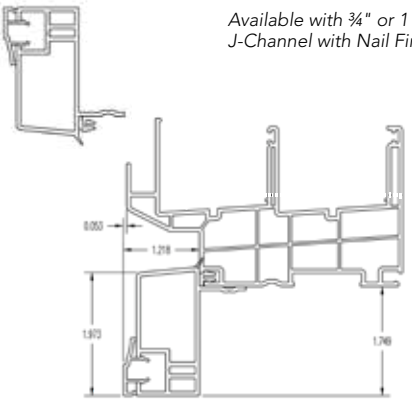
Brickmold

Brickmold Nail Fin with J-Channel

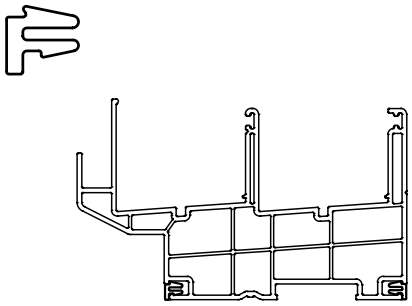


Welded Brickmold

Available with ¾" or 1 ⅛" J-Channel with Nail Fin.

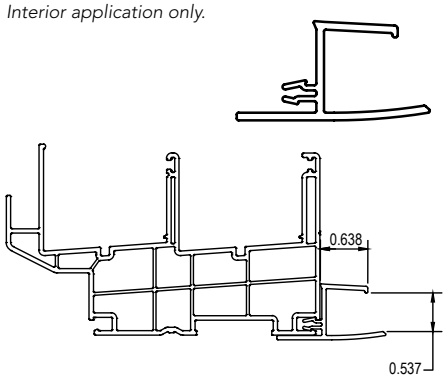


Accessory Groove Filler Strip

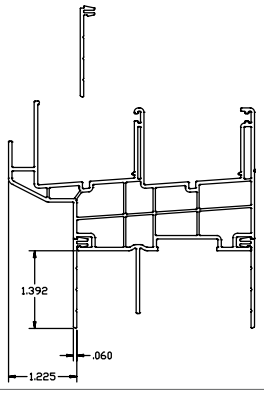


1/2" Drywall Return

Interior application only.



Sill Extender



ENDURE™ 3-LITE SLIDER

Standard Features

3¼" frame depth

SunShield® vinyl

¾" ComforTech™ DLA-UV glass package

Welded frame and sash construction

Anchor stops

Exterior glazing

Graphite polystyrene rigid foam insulation

INNERGY® thermal reinforcements

Brass rollers

Extruded aluminum half screens with BetterVue® fiberglass mesh

Cove sash profile

Dual weatherstripping

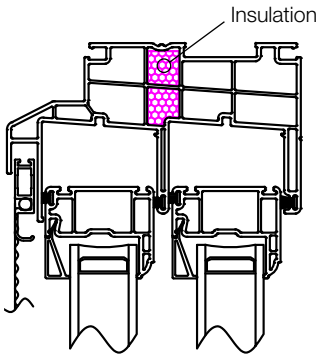
Two passive Profile™ SA sweep locks

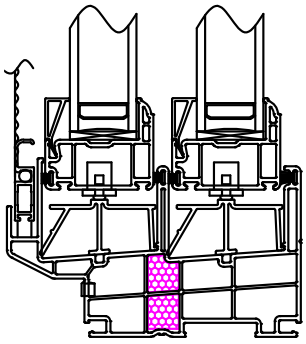
Vent lock



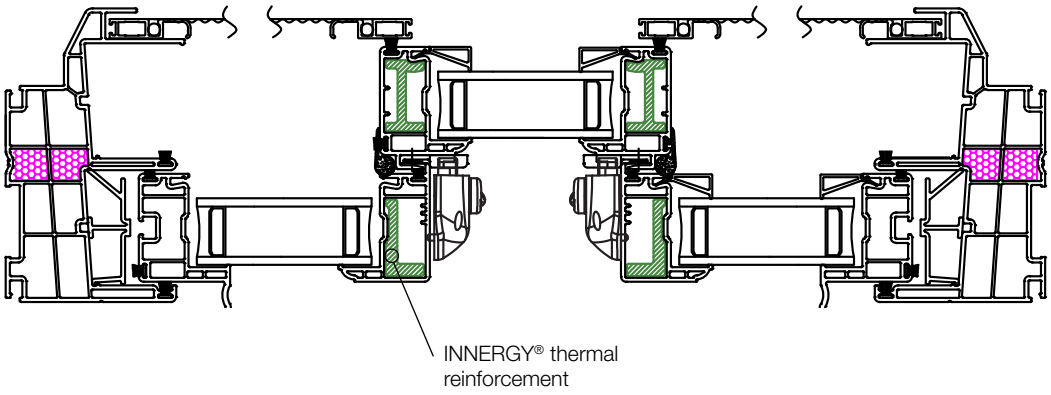
Assemblies

Side View





Top View



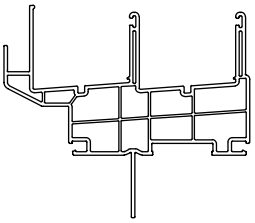
AIR INFILTRATION
0.10 Cubic Feet / Minute = 95.8 oz.



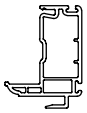
Endure 3-Lite Slider 108" x 48"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.10 cfm/ft² @ 25 mph
Water	ASTM E 547	9.19 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8 and 11	DP35 118 mph

Based on a 1/3, 1/3, 1/3 with a replacement frame.

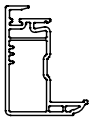
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



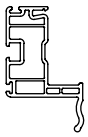
FRAME



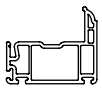
KEEPER SASH RAIL



LOCK SASH RAIL



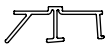
PULL SASH RAIL



HORIZONTAL SASH RAIL



¾" GLAZING BEAD



SLIDER TRACK



KEEPER RAIL REBAR



LOCK RAIL REBAR

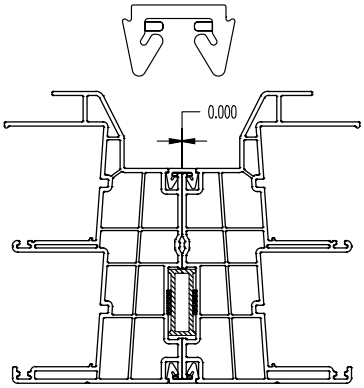


1" GLAZING BEAD

Accessories

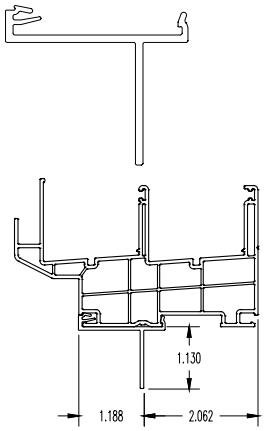
Joining Mullion

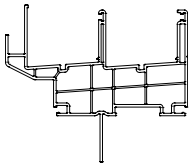
0° Mullion



Nail Fin

Nail Fin

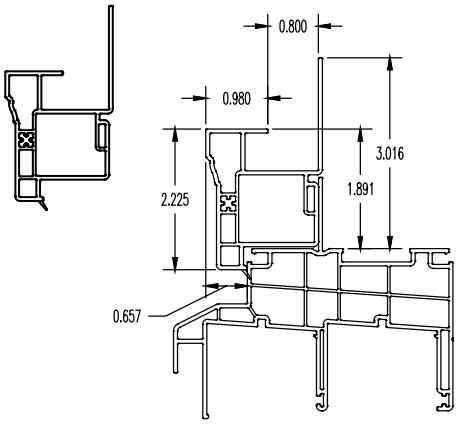




Integral Nail Fin

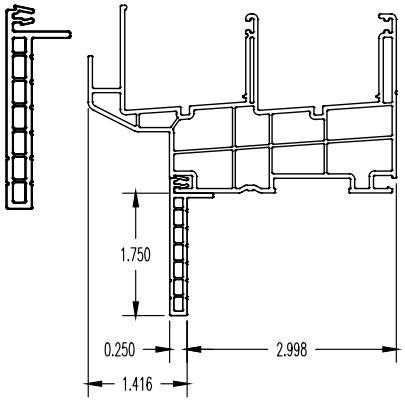
Brickmold

Brickmold Nail Fin with J-Channel

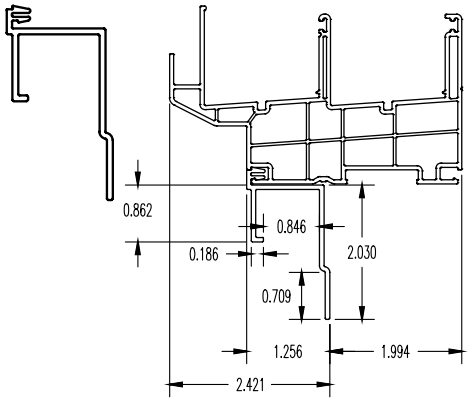


Exterior Cover

Stucco Flange

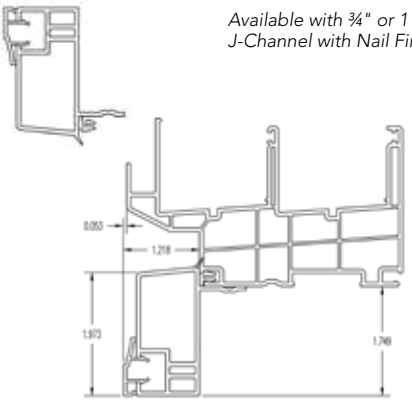


Nail Fin with J-Channel

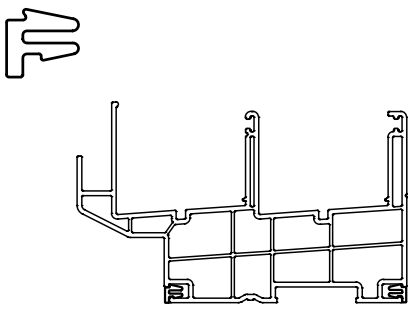


Welded Brickmold

Available with ¾" or 1 ⅛" J-Channel with Nail Fin.

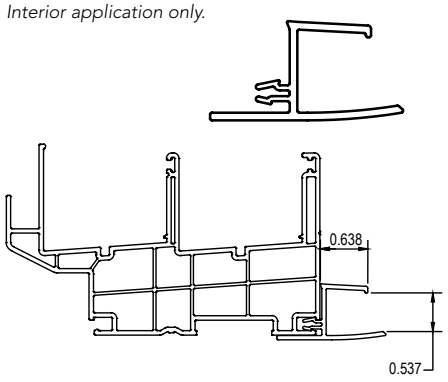


Accessory Groove Filler Strip

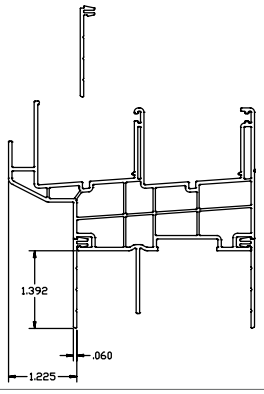


1/2" Drywall Return

Interior application only.



Sill Extender



ENDURE™ PICTURE



Standard Features

3¼" frame depth

SunShield® vinyl

¾" ComforTech™ DLA-UV glass package

Welded frame construction

Direct-set glass

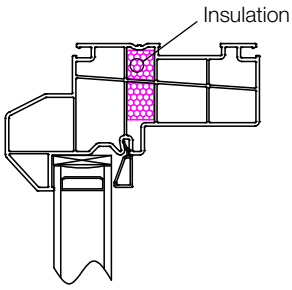
Interior glazing

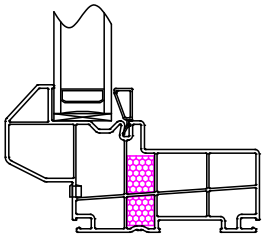
Sloped sill

Graphite polystyrene rigid foam insulation

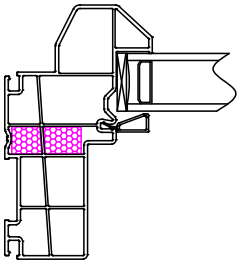
Assemblies

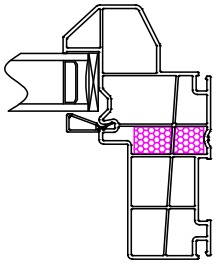
Side View





Top View



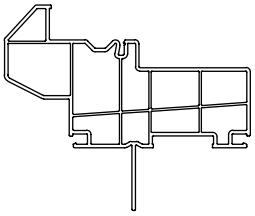


AIR INFILTRATION
0.01 Cubic Feet / Minute = 9.6 oz.



Endure Picture 50" x 66"		
TEST	TEST SPECIFICATION	RESULTS
Air	ASTM E 283	0.01 cfm/ft² @ 25 mph
Water	ASTM E 547	9.82 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-17-22	DP55 149 mph

Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



FRAME

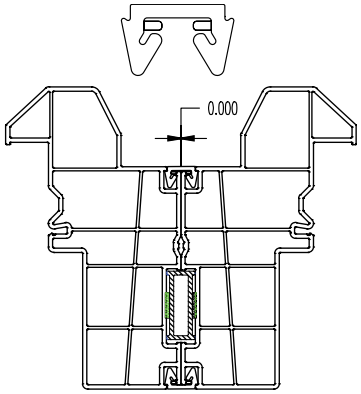
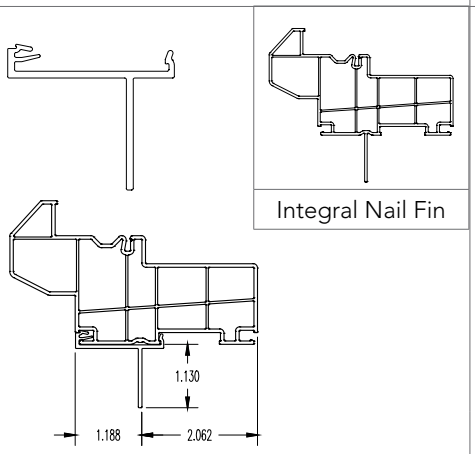
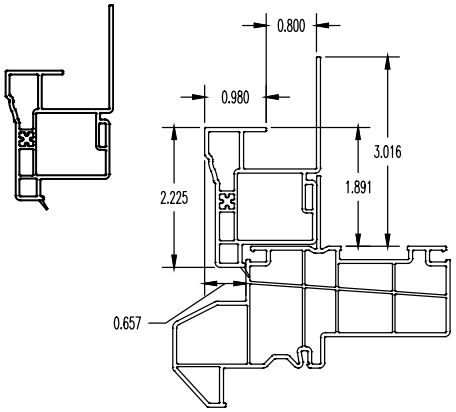
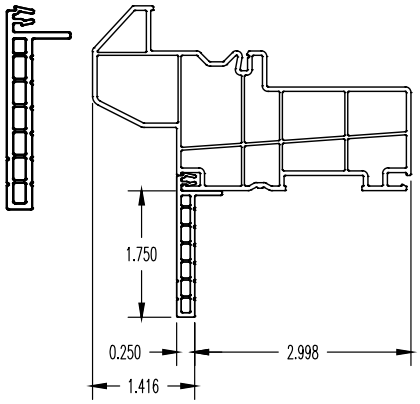
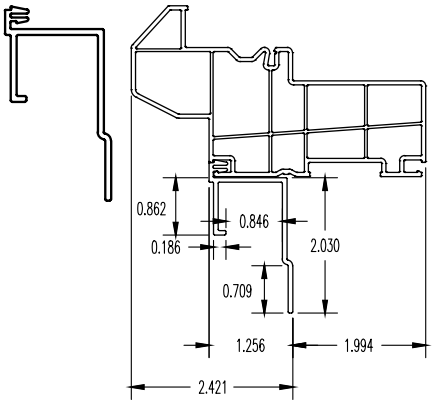
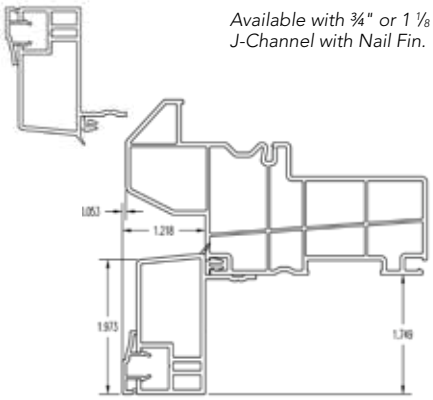
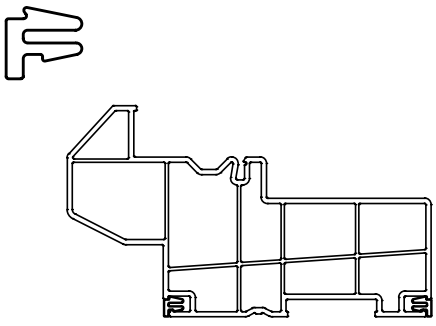
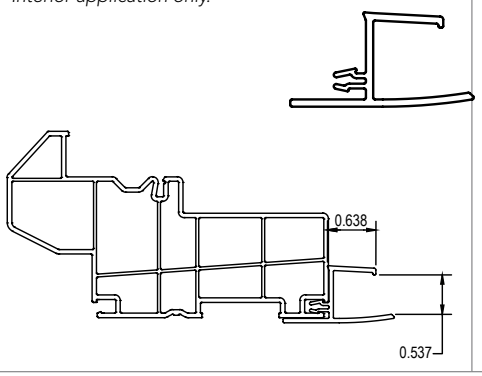
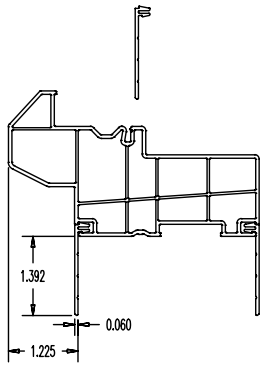


¾" GLAZING BEAD



1" GLAZING BEAD

Accessories

Joining Mullion	Nail Fin	Brickmold
0° Mullion	Nail Fin	Brickmold Nail Fin with J-Channel
		
Exterior Cover		
Stucco Flange	Nail Fin with J-Channel	Welded Brickmold
		*Available with ¾" or 1 ⅛" J-Channel with Nail Fin.* 
Accessory Groove Filler Strip	**1/2" Drywall Return**	**Sill Extender**
	*Interior application only.* 	

ENDURE™ CASEMENT



Standard Features

3¼" frame depth

SunShield® vinyl

¾" ComforTech™ DLA-UV glass package

Welded frame and sash construction

Increased viewing area

Exterior glazing

Graphite polystyrene rigid foam insulation

Multi-point locking hardware system

Washability hinge

Corner drive system on units 56¼" tall and taller and at least 24" wide

INNERGY® thermal reinforcements

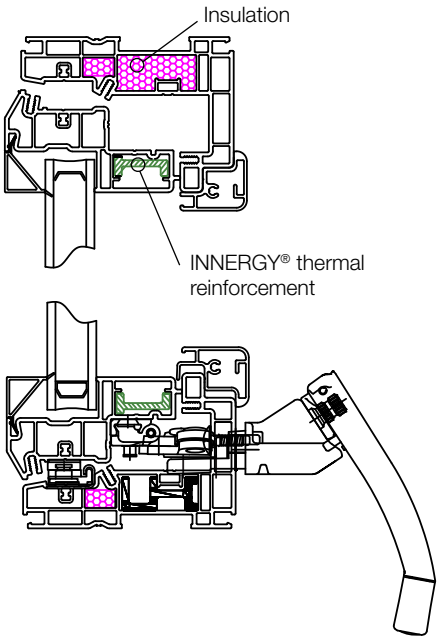
Square sash profile

Extruded aluminum screen with BetterVue® fiberglass mesh

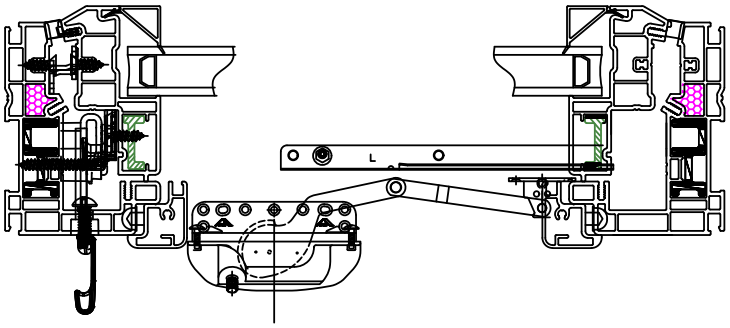
Optional simulated double hung meeting rail

Assemblies

Side View



Top View



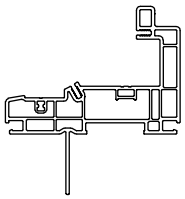
AIR INFILTRATION
0.03 Cubic Feet / Minute = 28.7 oz.



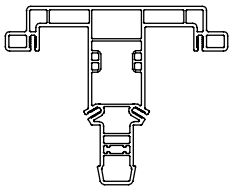
Endure Casement 36" x 75"

TEST	TEST SPECIFICATION	RESULTS
Air	ASTM E 283	0.03 cfm/ft² @ 25 mph
Water	ASTM E 547	7.52 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8-11-17	DP50 161 mph

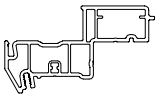
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



FRAME



CASEMENT FRAME T-MULL



CASEMENT SASH



¾" GLAZING BEAD



1" GLAZING BEAD

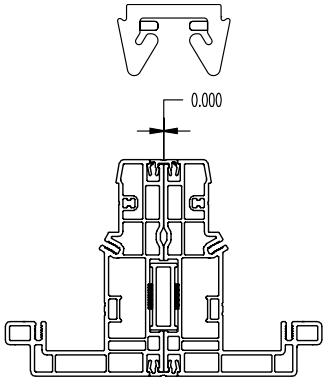
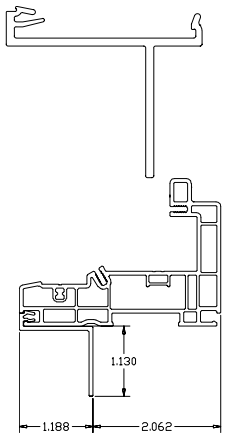
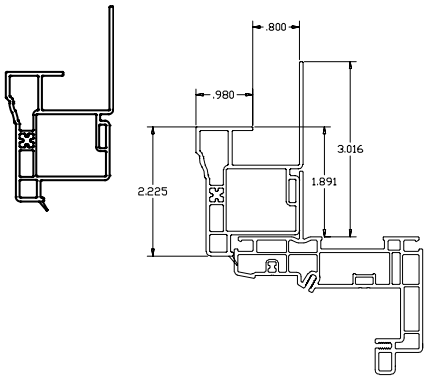
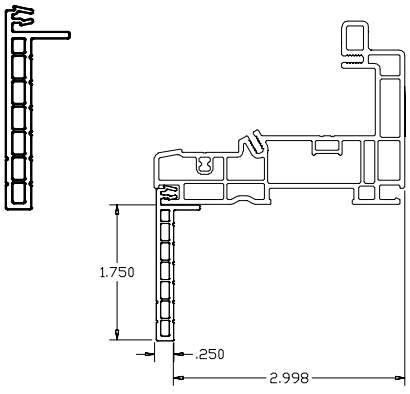
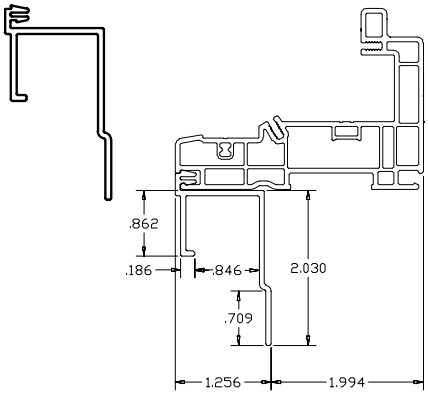
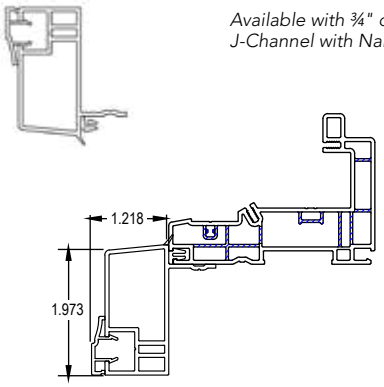
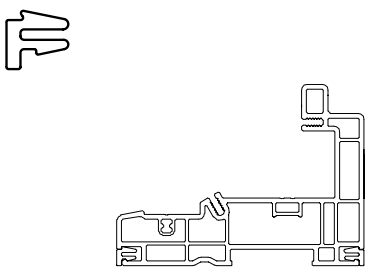
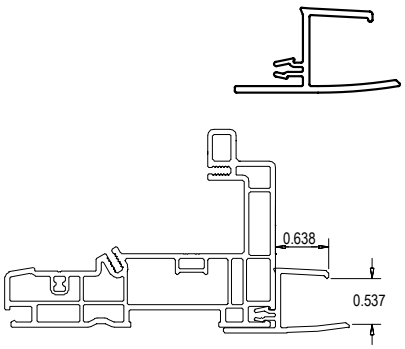
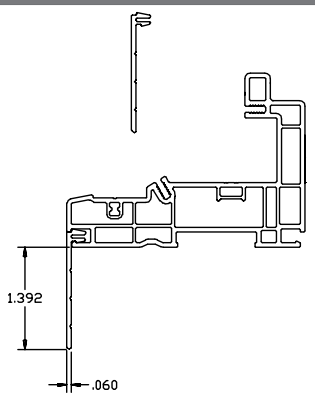


SASH REBAR



FRAME REBAR

Accessories

Joining Mullion	Nail Fin	Brickmold
0° Mullion	Nail Fin	Brickmold Nail Fin with J-Channel
		
Exterior Cover	Integral Nail Fin	
Stucco Flange	Nail Fin with J-Channel	Welded Brickmold
		*Available with ¾" or 1 ⅛" J-Channel with Nail Fin.* 
Accessory Groove Filler Strip	**1/2" Drywall Return**	**Sill Extender**
	*Interior application only.* 	

ENDURE™ PATIO DOOR



Standard Features

Galvanized steel reinforced panels

Patented water drainage system in sill

Strong, multi-chambered profiles

Graphite polystyrene rigid foam insulation

4⅝" frame depth

AccuVent™ vent lock

Patented sliding system featuring 4 adjustable 1" wheels per operating panel

Top hung, heavy duty aluminum screen frame suspended by ball bearing rollers

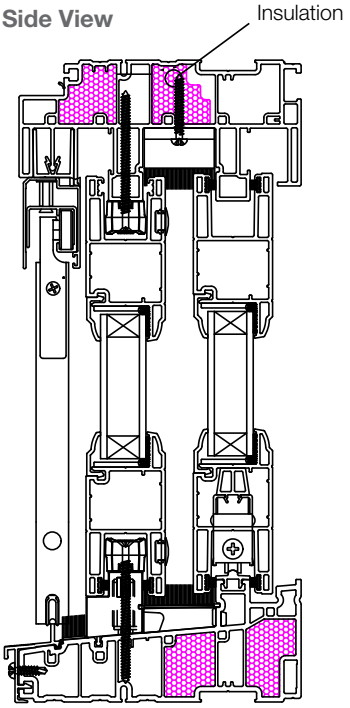
BetterVue® fiberglass screen mesh

Spring-loaded latch screen system includes interior locking feature

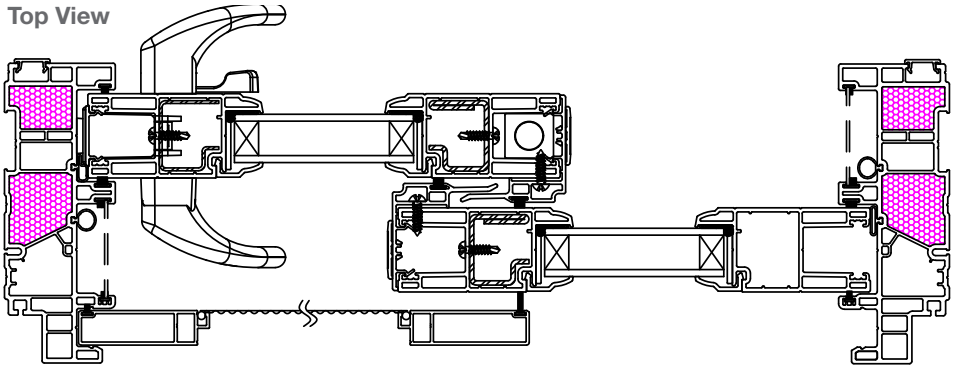
1" ComforTech™ DLA-UV glass package

Assemblies

Side View



Top View



AIR INFILTRATION
0.04 Cubic Feet / Minute = 38.3 oz.

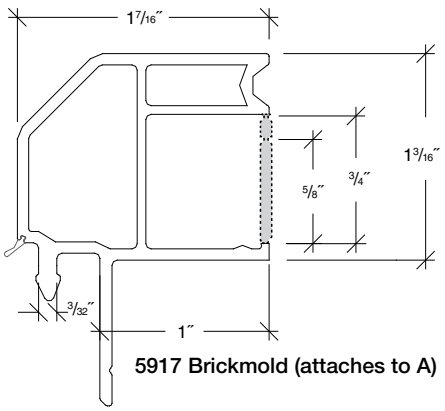


Endure Patio Door 72" x 82"

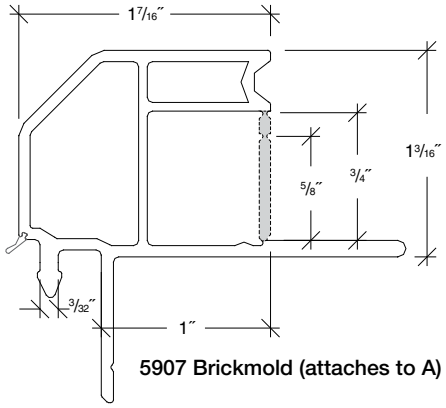
TEST	TEST SPECIFICATION	RESULTS
Air	AAMA/WDMA/CSA 101/I.S.2/A440-08 par. 5.3.2.2 & ASTM-E283-04	0.04 cfm/ft²
Water	AAMA/WDMA/CSA 101/I.S.2/A440-08 par. 5.3.3.2 & ASTM-E547-00 (2009)	9.00 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-08 par. 5.3.4.3 & ASTM-E330-02 (2010)	DP55 148mph

Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.

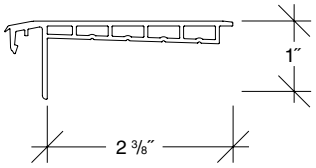
Accessories



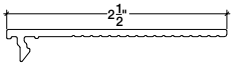
5917 Brickmold (attaches to A)



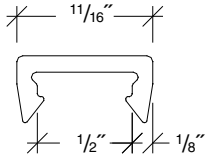
5907 Brickmold (attaches to A)



5938 Stucco Flange
(attaches to A)

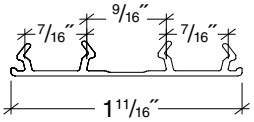


5927 External Frame Adapter
(attaches to A)



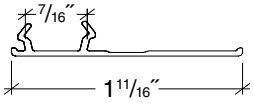
5928 0° Mullion Cover
(attaches to A)

5929 Zero Degree Mull
available for heavy reinforced
patio doors

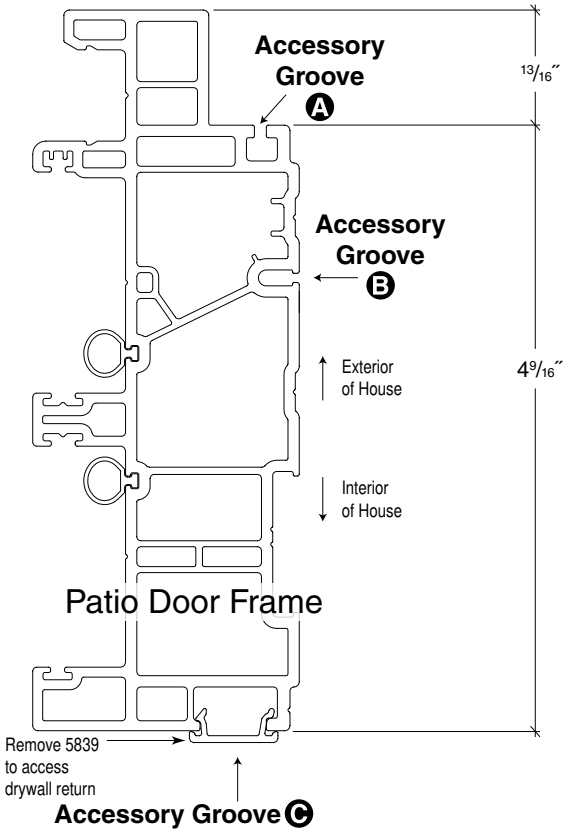


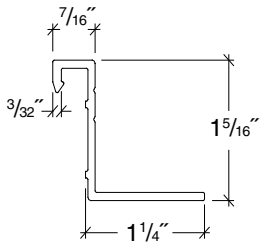
5840 Double Cover
(attaches to C)

5847 Double Cover available
for heavy reinforced patio
doors

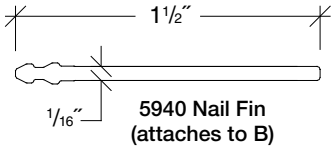


5892 Interior Trim
(attaches to C)

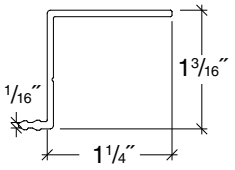




5956 Nail Fin
(attaches to A)
(will decrease jamb depth)

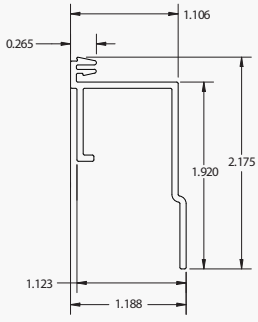


5940 Nail Fin
(attaches to B)
(will decrease jamb depth)

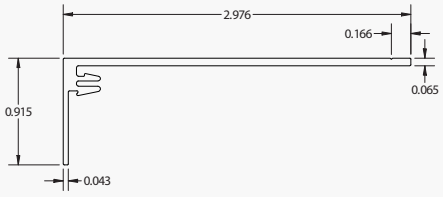


5945 Nail Fin
(attaches to B)

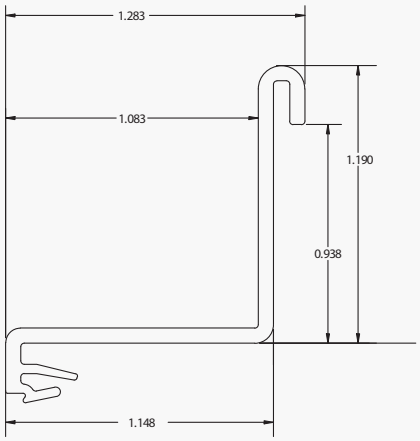
Endure/Aspect Mulled Window Accessories



Applied Nail Fin with
J-Channel



Flat Header Cover



Header Cover with Nail Fin

ASPECT™ DOUBLE HUNG



Standard Features

3¼" frame depth

SunShield® vinyl

¾" ComforTech™ DLA glass package

Welded frame and sash construction

Constant Force balance system

Exterior glazing

Extruded sloped sill

Cove sash profile

Triple weatherstripping

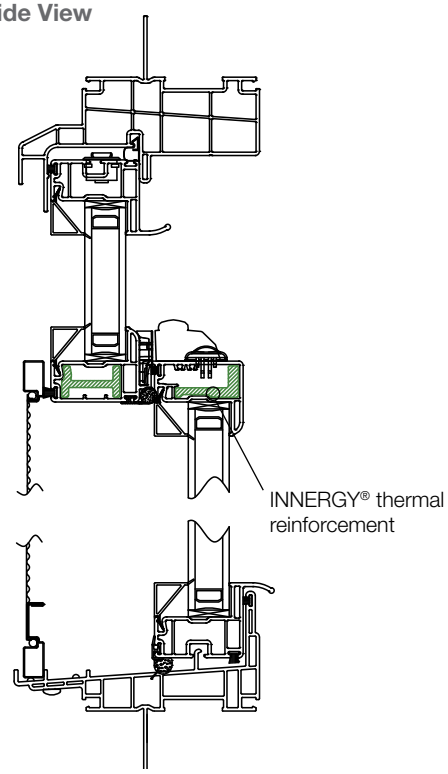
Two Profile™ SA sweep locks and tilt latches

Dual vent locks

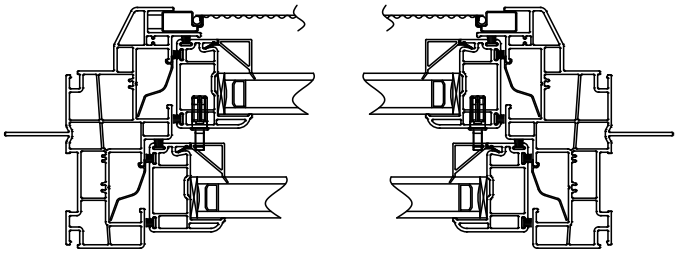
Roll formed half screen frame with BetterVue® screen mesh

Assemblies

Side View



Top View

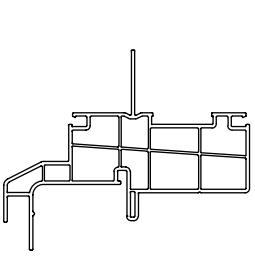


AIR INFILTRATION
0.08 Cubic Feet / Minute = 76.6 oz.

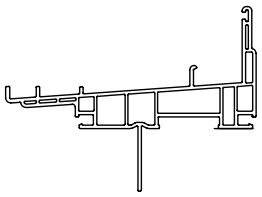


Aspect Double Hung 44" x 75"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.08 cfm/ft² @ 25 mph
Water	ASTM E 547	7.52 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8 and 11	DP40 125 mph

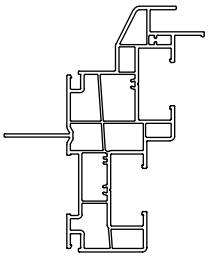
TEST data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on single strength glass. Other build configurations will produce different RESULTS.



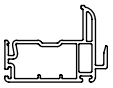
HEADER



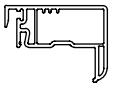
SILL



JAMB



KEEPER SASH RAIL



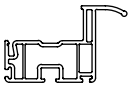
LOCK SASH RAIL



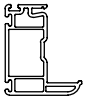
¾" GLAZING BEAD



KEEPER RAIL REBAR



PULL/LIFT SASH RAIL



VERTICAL SASH RAIL



1" GLAZING BEAD

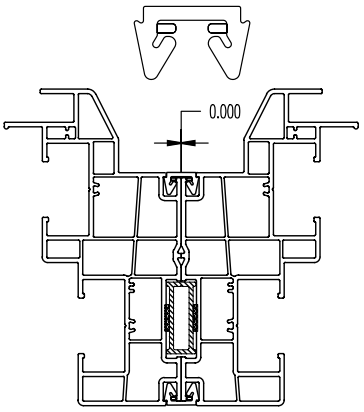


LOCK RAIL REBAR

Accessories

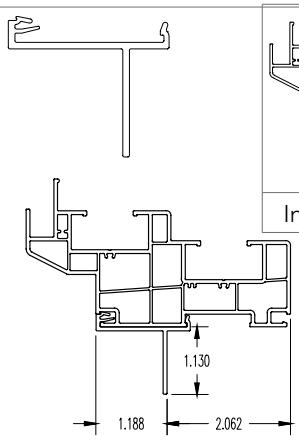
Joining Mullion

0° Mullion

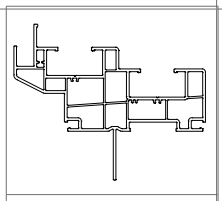


Nail Fin

Nail Fin

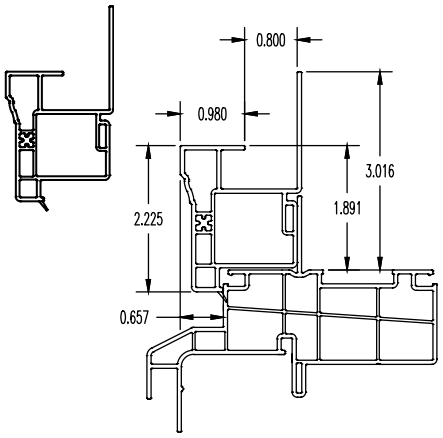


Integral Nail Fin



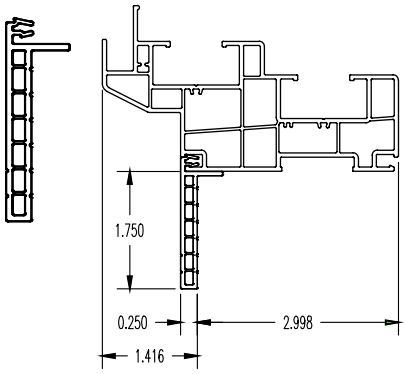
Brickmold

Brickmold Nail Fin with J-Channel

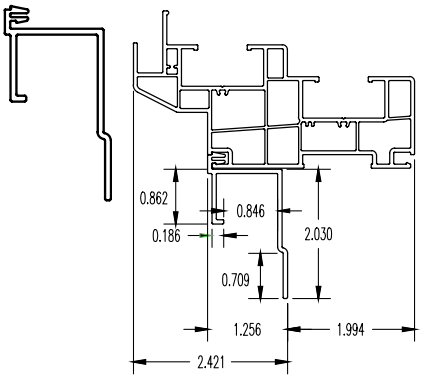


Exterior Cover

Stucco Flange

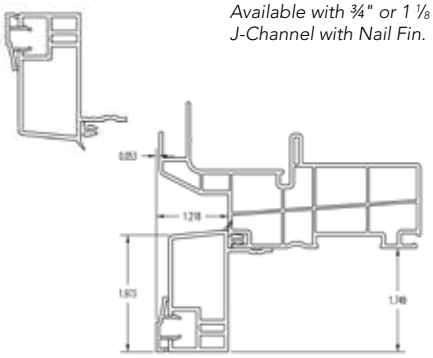


Nail Fin with J-Channel

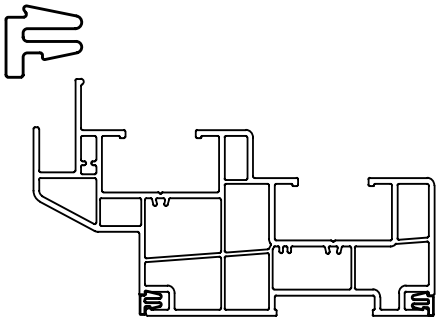


Welded Brickmold

Available with ¾" or 1 ⅛" J-Channel with Nail Fin.

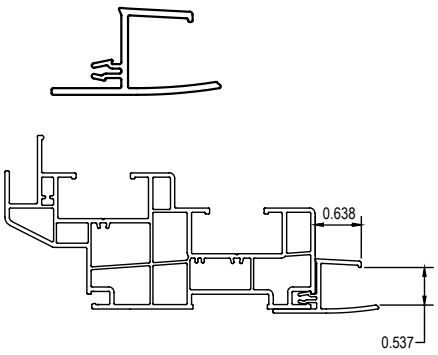


Accessory Groove Filler Strip



1/2" Drywall Return

Interior application only.



ASPECT™ 2-LITE SLIDER

Standard Features

3¼" frame depth

SunShield® vinyl

¾" ComforTech™ DLA glass package

Welded frame and sash construction

Exterior glazing

Brass sash rollers

Cove sash profile

Dual weatherstripping

Two Profile™ SA sweep locks

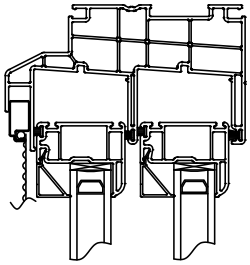
Roll formed half screen frame with BetterVue® fiberglass mesh

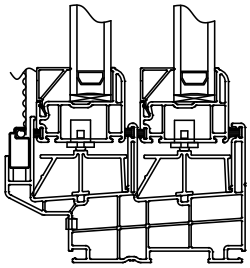
Vent lock



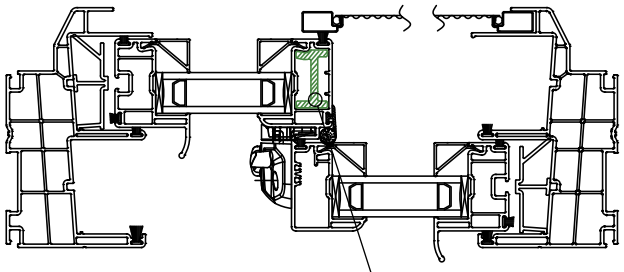
Assemblies

Side View





Top View



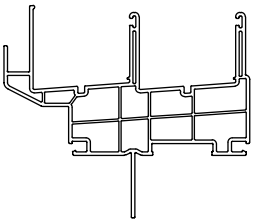
INNERGY® thermal reinforcement

AIR INFILTRATION
0.05 Cubic Feet / Minute = 47.9 oz.

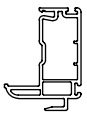


Aspect Slider 72" x 60"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.05 cfm/ft² @ 25 mph
Water	ASTM E 547	5.43 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-11-17	DP-25 100 mph

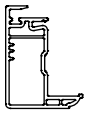
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



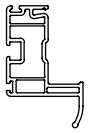
FRAME



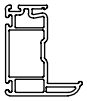
KEEPER SASH RAIL



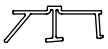
LOCK SASH RAIL



PULL SASH RAIL



HORIZONTAL SASH RAIL



SLIDER TRACK



¾" GLAZING BEAD



1" GLAZING BEAD



KEEPER RAIL REBAR

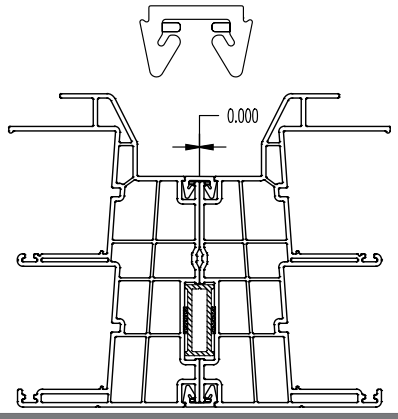


LOCK RAIL REBAR

Accessories

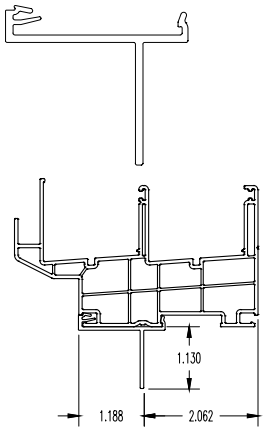
Joining Mullion

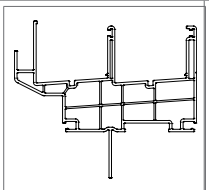
0° Mullion



Nail Fin

Nail Fin

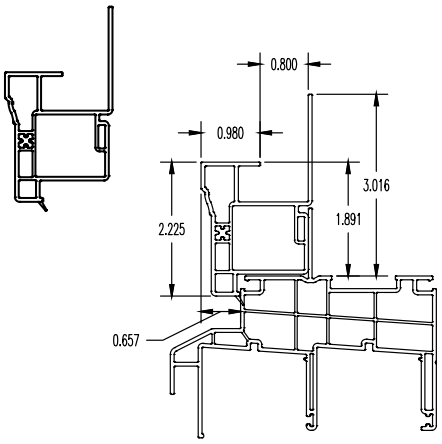




Integral Nail Fin

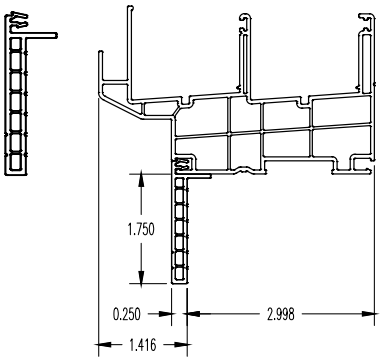
Brickmold

Brickmold Nail Fin with J-Channel

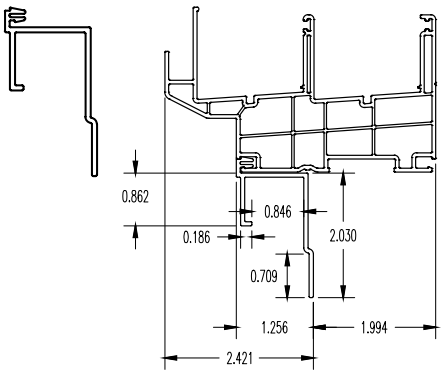


Exterior Cover

Stucco Flange

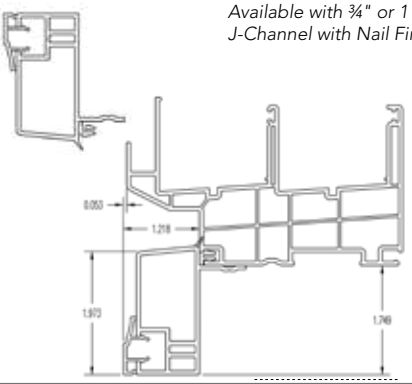


Nail Fin with J-Channel

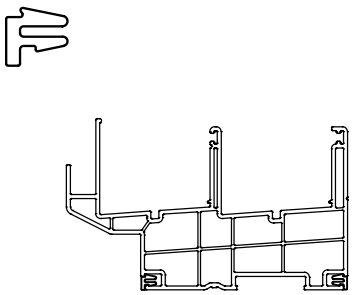


Welded Brickmold

Available with ¾" or 1 ⅛" J-Channel with Nail Fin.

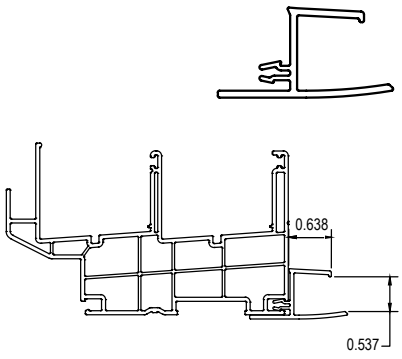


Accessory Groove Filler Strip



1/2" Drywall Return

Interior application only.



ASPECT™ 3-LITE SLIDER

Standard Features

3¼" frame depth

SunShield® vinyl

¾" ComforTech™ DLA glass package

Welded frame and sash construction

Anchor stops

Exterior glazing

Brass sash rollers

Cove sash profile

Dual weatherstripping

Two Profile™ SA sweep locks

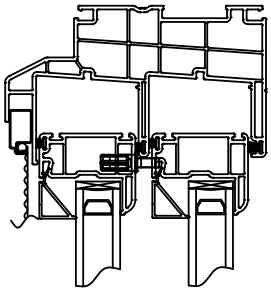
Roll formed half screens frame with BetterVue® fiberglass mesh

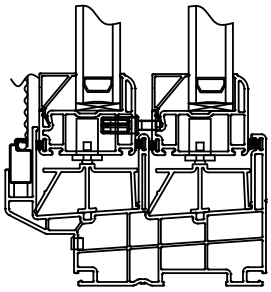
Vent lock



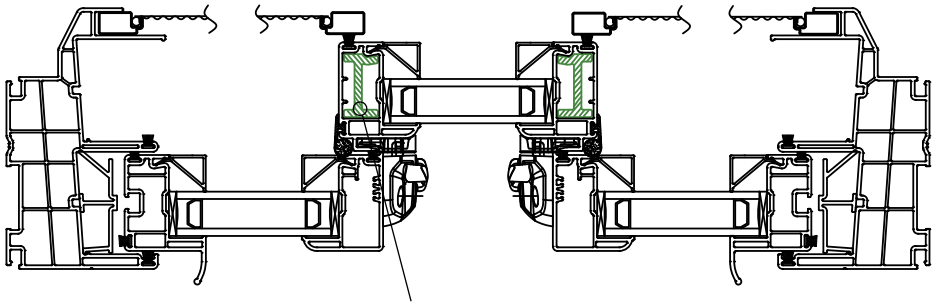
Assemblies

Side View





Top View



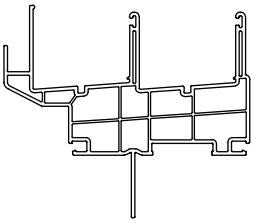
AIR INFILTRATION
0.10 Cubic Feet / Minute = 95.8 oz.



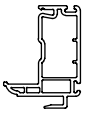
Aspect Slider 108" x 48"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.10 cfm/ft² @ 25 mph
Water	ASTM E 547	9.19 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8 and 11	DP35 118 mph

Based on a 1/3, 1/3, 1/3 with a replacement frame.

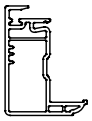
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



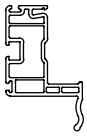
FRAME



KEEPER SASH RAIL



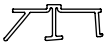
LOCK SASH RAIL



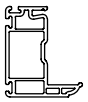
PULL SASH RAIL



¾" GLAZING BEAD



SLIDER TRACK



HORIZONTAL SASH RAIL



1" GLAZING BEAD



KEEPER RAIL REBAR

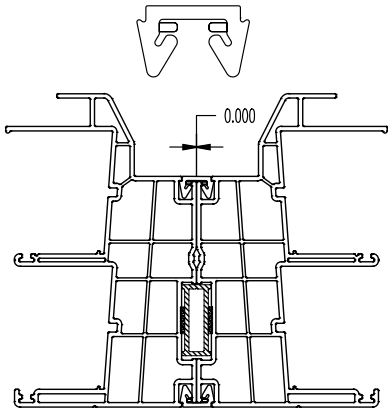


LOCK RAIL REBAR

Accessories

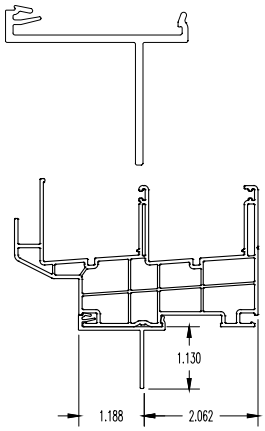
Joining Mullion

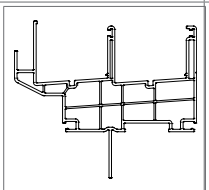
0° Mullion



Nail Fin

Nail Fin

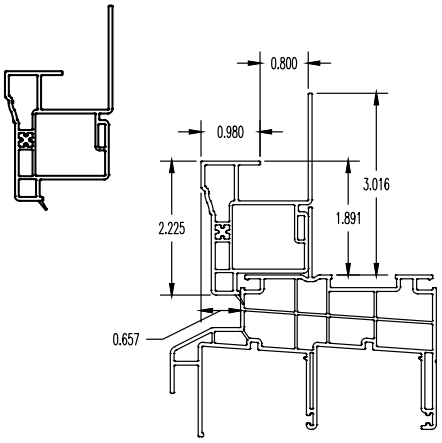




Integral Nail Fin

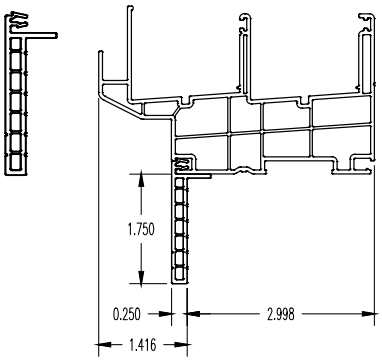
Brickmold

Brickmold Nail Fin with J-Channel

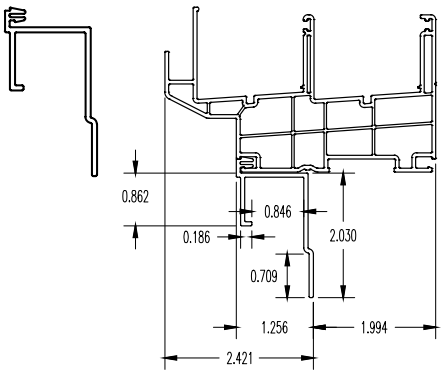


Exterior Cover

Stucco Flange

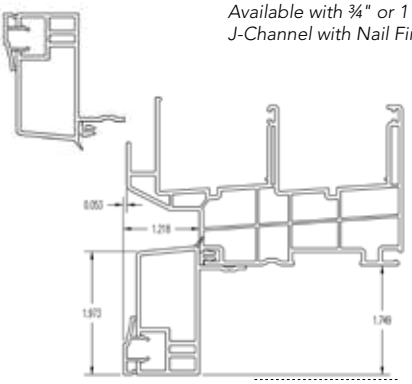


Nail Fin with J-Channel

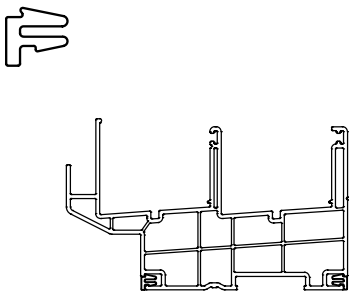


Welded Brickmold

Available with ¾" or 1 ⅛" J-Channel with Nail Fin.

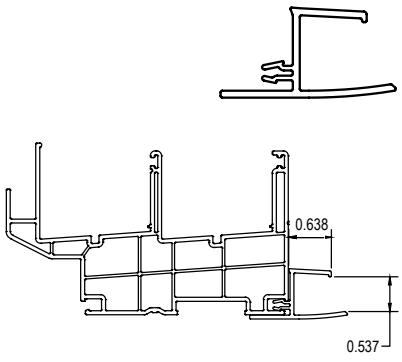


Accessory Groove Filler Strip



1/2" Drywall Return

Interior application only.



ASPECT™ PICTURE



Standard Features

3¼" frame depth

SunShield® vinyl

¾" ComforTech™ DLA glass package

Welded frame construction

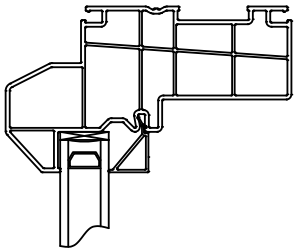
Direct-set glass

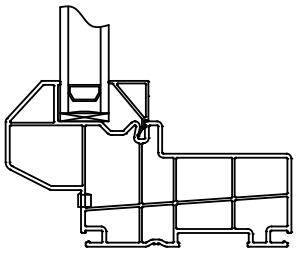
Interior glazing

Sloped sill

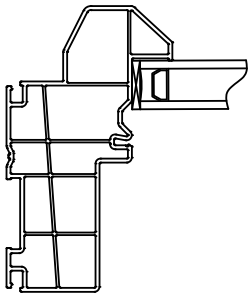
Assemblies

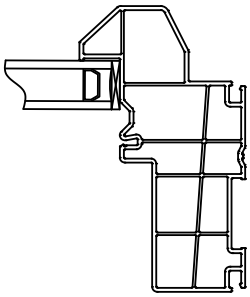
Side View





Top View



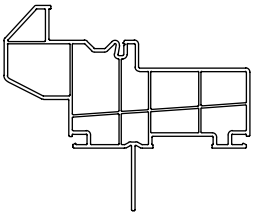


AIR INFILTRATION
0.01 Cubic Feet / Minute = 9.6 oz.



Aspect Picture 50" x 56"		
TEST	TEST SPECIFICATION	RESULTS
Air	ASTM E 283	0.01 cfm/ft² @ 25 mph
Water	ASTM E 547	9.82 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-17-22	DP55 149 mph

Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



FRAME



¾" GLAZING BEAD

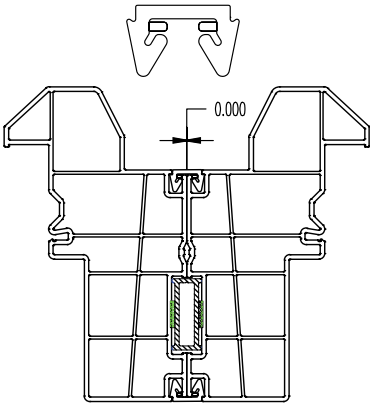


1" GLAZING BEAD

Accessories

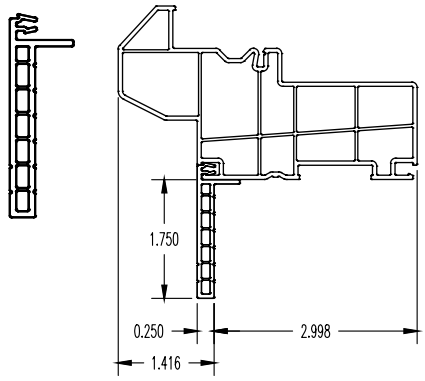
Joining Mullion

0° Mullion



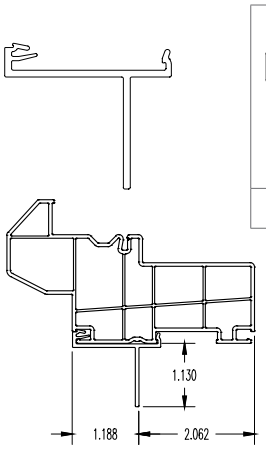
Exterior Cover

Stucco Flange

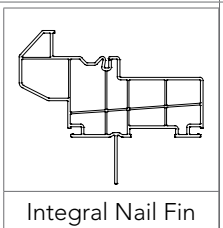


Nail Fin

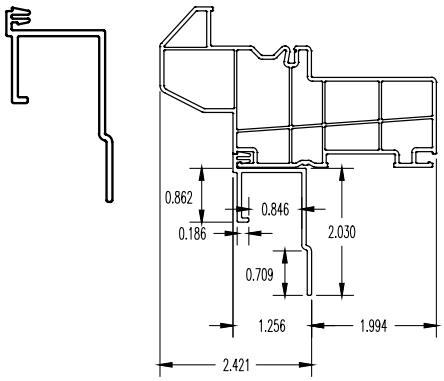
Nail Fin



Integral Nail Fin

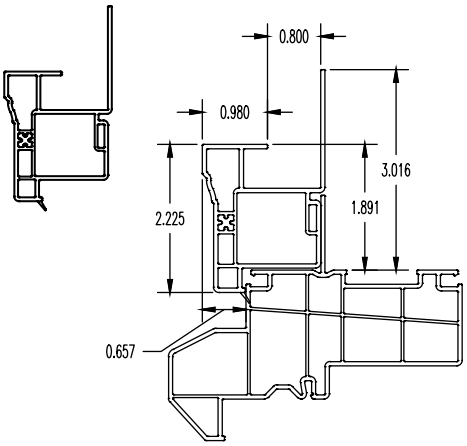


Nail Fin with J-Channel



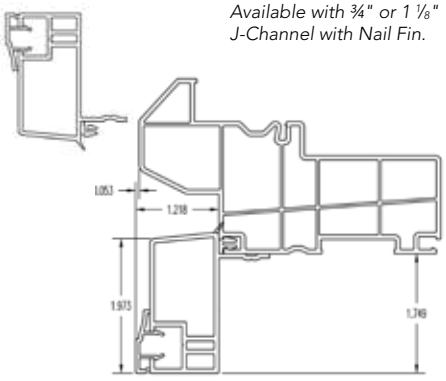
Brickmold

Brickmold Nail Fin with J-Channel

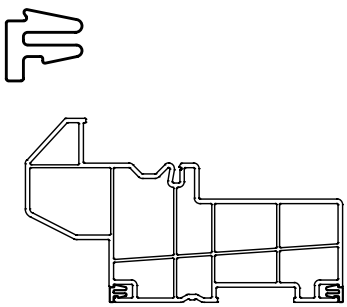


Welded Brickmold

Available with ¾" or 1 ⅛" J-Channel with Nail Fin.

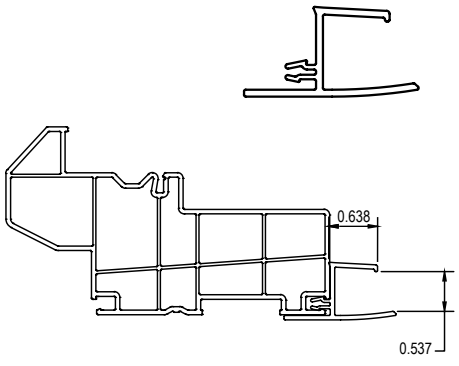


Accessory Groove Filler Strip



1/2" Drywall Return

Interior application only.



ASPECT™ CASEMENT

Standard Features

3¼" frame depth

SunShield® vinyl

¾" ComforTech™ DLA glass package

Welded frame and sash construction

Increased viewing area

Exterior glazing

Square sash profile

Multi-point locking hardware system

Washability hinge

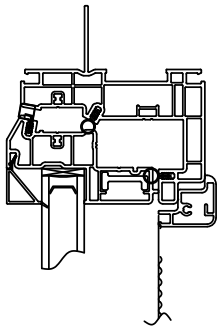
Corner drive system on units 56¼" tall and taller and at least 24" wide

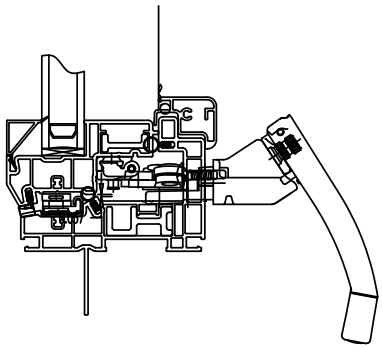
Extruded screen frame with BetterVue® fiberglass mesh



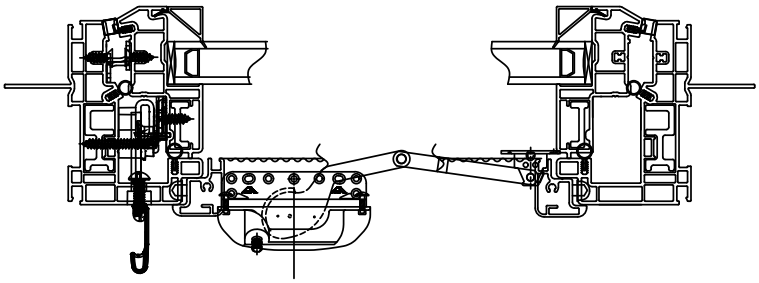
Assemblies

Side View





Top View

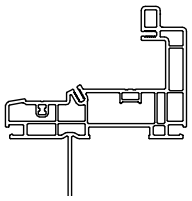


AIR INFILTRATION
0.03 Cubic Feet / Minute = 28.7 oz.

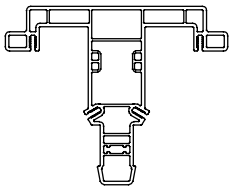


Aspect Casement 36" x 75"		
TEST	TEST SPECIFICATION	RESULTS
Air	ASTM E 283	0.03 cfm/ft² @ 25 mph
Water	ASTM E 547	7.52 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-11-17	DP50 155 mph

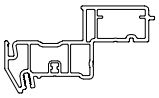
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



FRAME



CASEMENT FRAME T-MULL



CASEMENT SASH

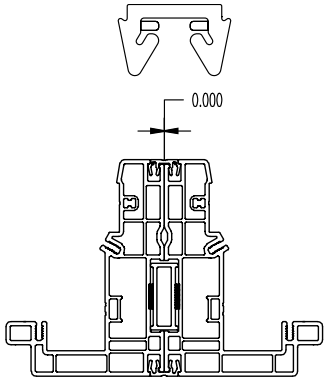
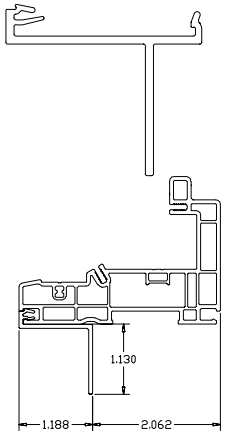
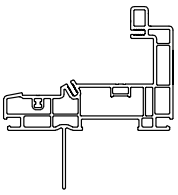
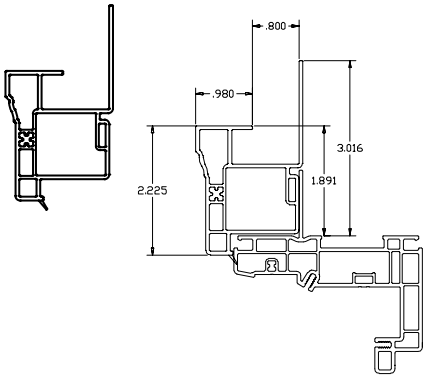
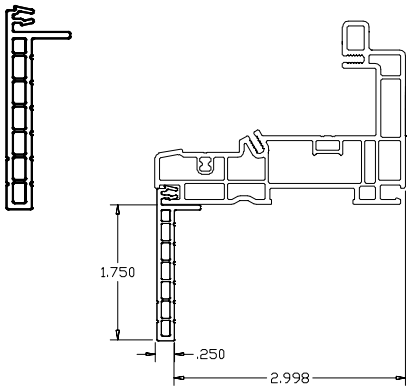
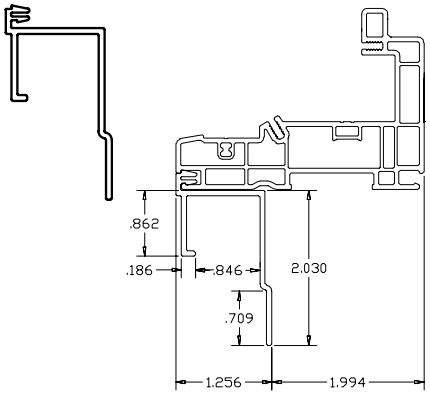
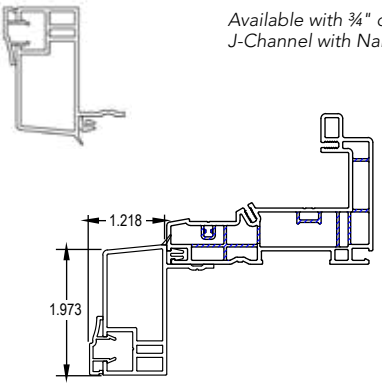
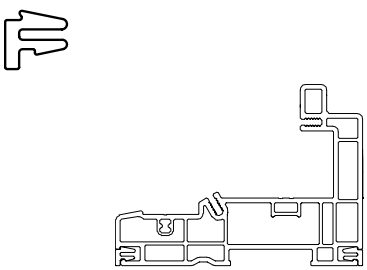
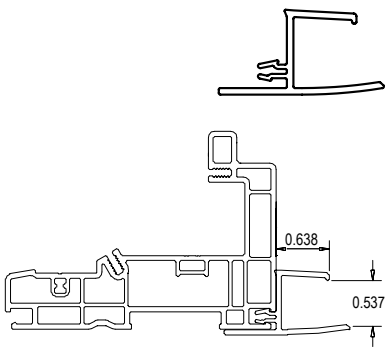


¾" GLAZING BEAD



1" GLAZING BEAD

Accessories

Joining Mullion	Nail Fin	Brickmold
0° Mullion	Nail Fin	Brickmold Nail Fin with J-Channel
	 Integral Nail Fin 	
Exterior Cover		
Stucco Flange	Nail Fin with J-Channel	Welded Brickmold
		*Available with ¾" or 1 ⅛" J-Channel with Nail Fin.* 
Accessory Groove Filler Strip	**1/2" Drywall Return**	
	*Interior application only.* 	

ASPECT™ PATIO DOOR



Standard Features

Galvanized steel reinforced panels

Patented water drainage system in sill

Strong, multi-chambered profiles

4⁹⁄₁₆" frame depth

Footlock

Patented sliding system featuring 4 adjustable 1" wheels per operating panel

Top hung, heavy duty aluminum screen frame suspended by ball bearing rollers

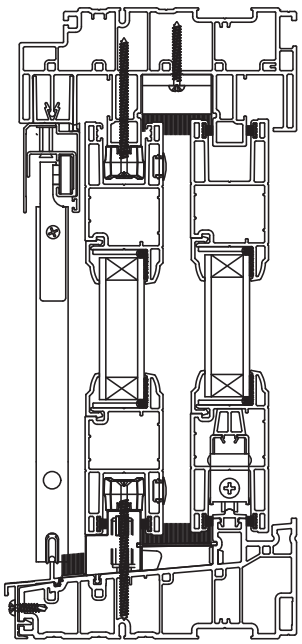
BetterVue® fiberglass screen mesh

Spring loaded screen latch system includes interior locking feature

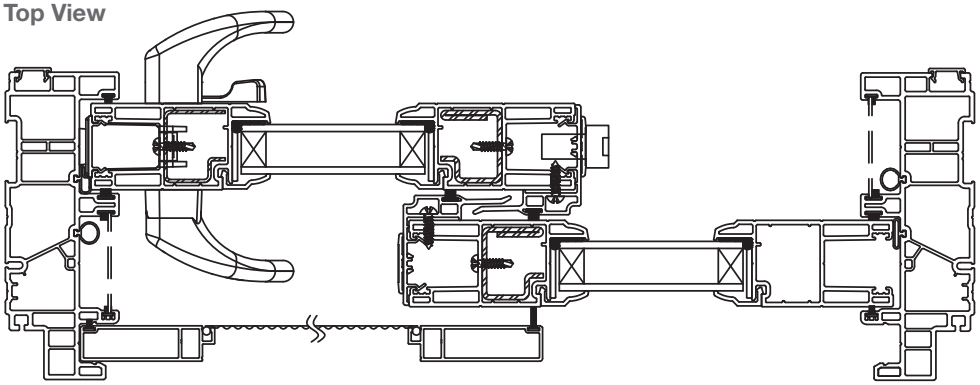
1" ComforTech™ DLA glass package

Assemblies

Side View



Top View



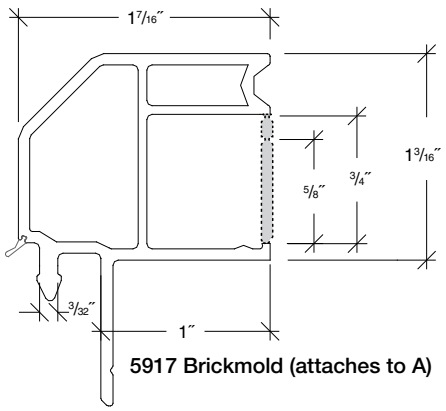
AIR INFILTRATION
0.04 Cubic Feet / Minute = 38.3 oz.



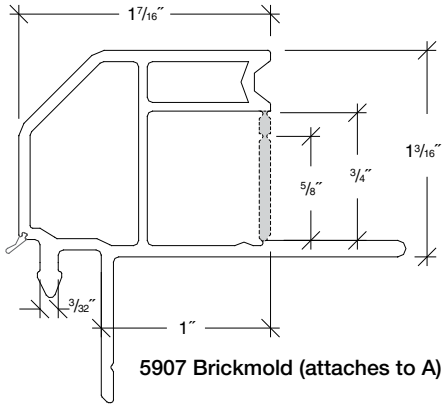
Aspect Patio Door 72" x 82"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	AAMA/WDMA/CSA 101/I.S.2/A440-08 par. 5.3.2.2 & ASTM-E283-04	0.04 cfm/ft²
Water	AAMA/WDMA/CSA 101/I.S.2/A440-08 par. 5.3.3.2 & ASTM-E547-00 (2009)	9.00 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-08 par. 5.3.4.3 & ASTM-E330-02 (2010)	DP55 148mph

TEST data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different RESULTS.

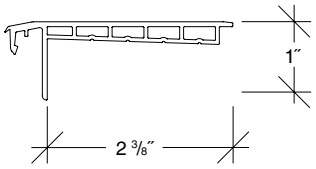
Accessories



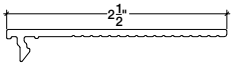
5917 Brickmold (attaches to A)



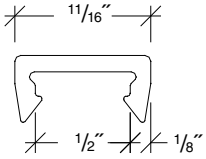
5907 Brickmold (attaches to A)



5938 Stucco Flange
(attaches to A)

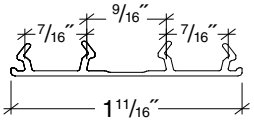


5927 External Frame Adapter
(attaches to A)



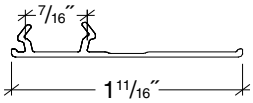
5928 0° Mullion Cover
(attaches to A)

5929 Zero Degree Mull
available for heavy reinforced
patio doors

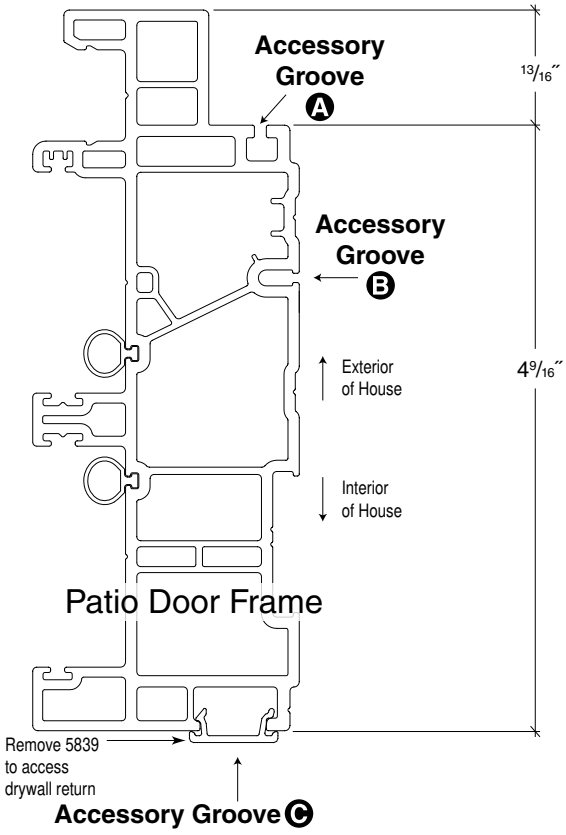


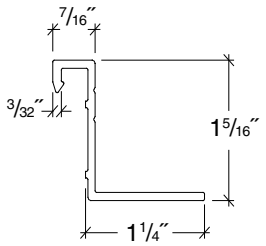
5840 Double Cover
(attaches to C)

5847 Double Cover available
for heavy reinforced patio
doors

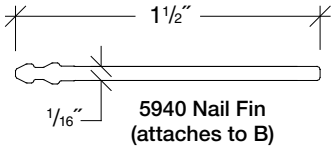


5892 Interior Trim
(attaches to C)

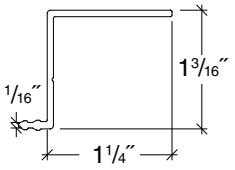




5956 Nail Fin
(attaches to A)
(will decrease jamb depth)

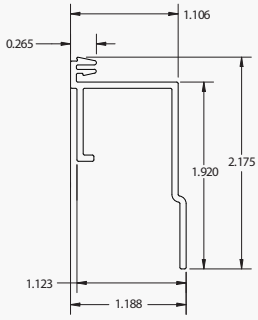


5940 Nail Fin
(attaches to B)
(will decrease jamb depth)

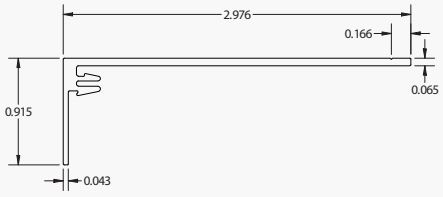


5945 Nail Fin
(attaches to B)

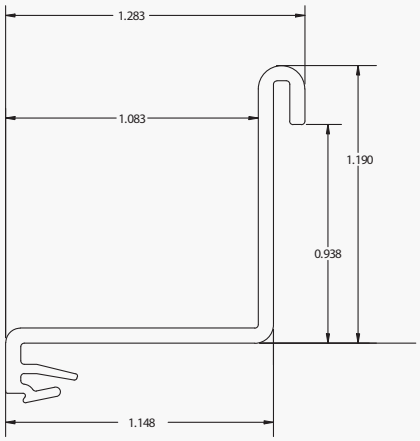
Endure/Aspect Mulled Window Accessories



Applied Nail Fin with
J-Channel



Flat Header Cover



Header Cover with Nail Fin

ECOLITE™ DOUBLE HUNG

Standard Features

3¼" frame depth

SunShield® vinyl

¾" insulated glass with Intercept® Blackline spacer & Low-E argon

Welded frame and sash construction

Constant Force balance system

Exterior glazing

Extruded sloped sill

Dual weatherstripping

Two surface mounted sweep locks and tilt latches

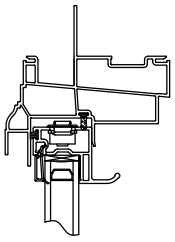
Dual vent stops

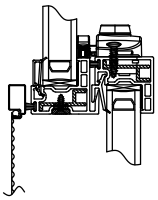
Roll formed aluminum half screen frame with BetterVue® fiberglass mesh

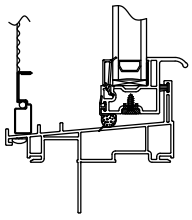


Assemblies

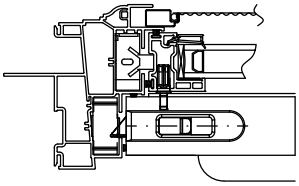
Side View

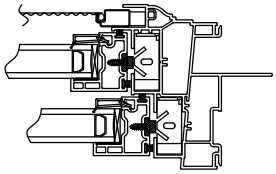






Top View



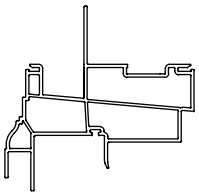


AIR INFILTRATION
0.10 Cubic Feet / Minute = 95.8 oz.

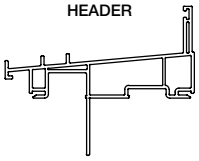


ecoLite Double Hung 36" x 72"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.10 cfm/ft² @ 25 mph
Water	ASTM E 547	5.43 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8 and 11	DP50 141 mph

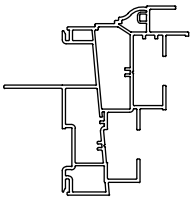
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



HEADER



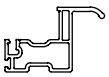
SILL



JAMB



LOCK SASH RAIL



LIFT/PULL SASH RAIL



VERTICAL SASH RAIL



SASH REBAR



KEEPER SASH RAIL



GLAZING BEAD

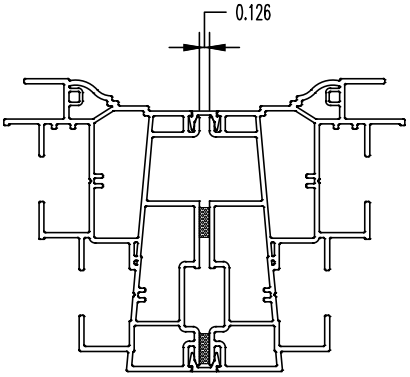
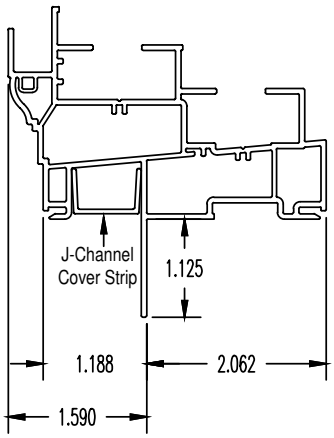
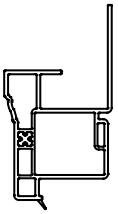
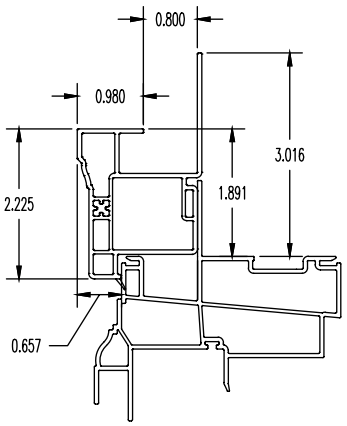
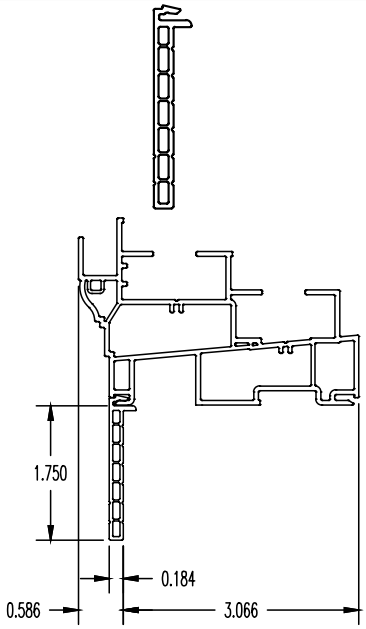
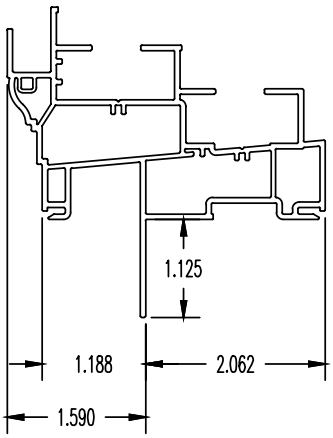


INTERLOCK GLAZING BEAD



SILL EXTENDER

Accessories

Joining Mullion	Integral Nail Fin	Brickmold
Snap Mullion	Integral Nail Fin	Brickmold Nail Fin with J-Channel
 	Comes with J-channel cover strip to cover frame groove 	 
Exterior Cover		
Stucco Flange	Integral Nail Fin & J-Channel	
		

ECOLITE™ SINGLE HUNG



Standard Features

3¼" frame depth

SunShield® vinyl

¾" insulated glass with Intercept® Blackline spacer & Low-E argon

Welded frame and sash construction

Fixed direct-glazed top sash with interior glazing bead & exterior glazing on bottom sash

Constant Force balance system

Extruded sloped sill

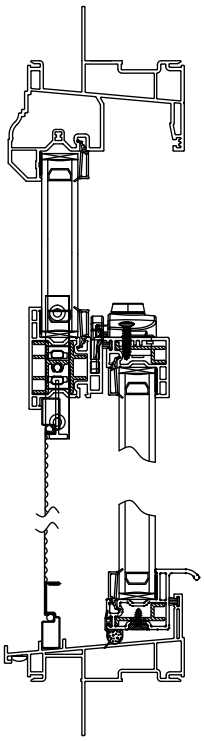
Dual weatherstripping

Two surface mounted sweep locks and tilt latches

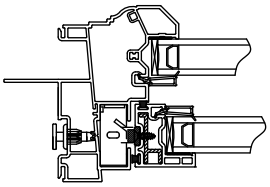
Roll formed aluminum half screen frame with BetterVue® fiberglass mesh

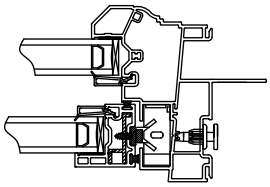
Assemblies

Side View



Top View





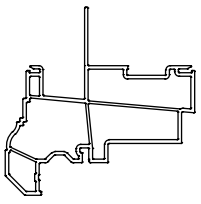
A DP50 sill can be added for increased performance.

AIR INFILTRATION
0.09 Cubic Feet / Minute = 86.2 oz.

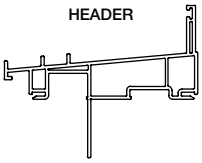


ecoLite Single Hung 40" x 66"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.09 cfm/ft² @ 25 mph
Water	ASTM E 547	5.23psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-11-17	DP50 141 mph

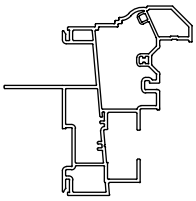
TEST data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on single strength glass. Other build configurations will produce different RESULTS.



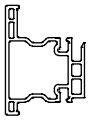
HEADER



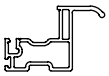
SILL



JAMB



FIXED MEETING RAIL



LIFT RAIL



VERTICAL SASH RAIL



SASH REBAR



LOCK SASH RAIL



INTERLOCK REBAR

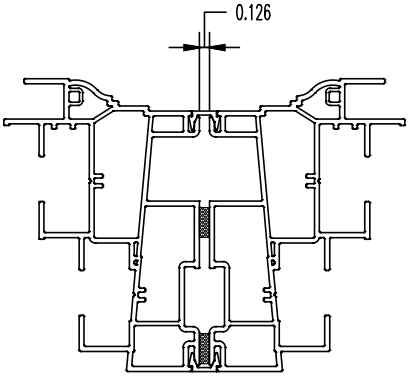
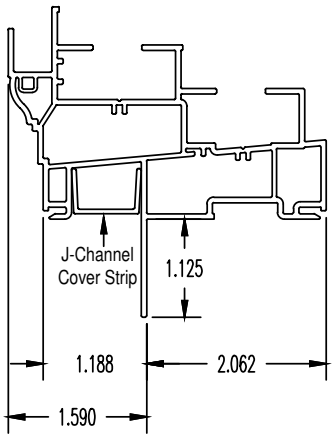
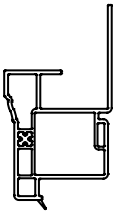
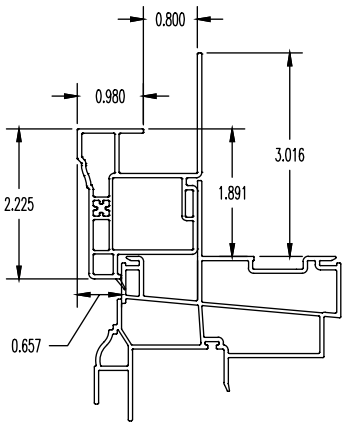
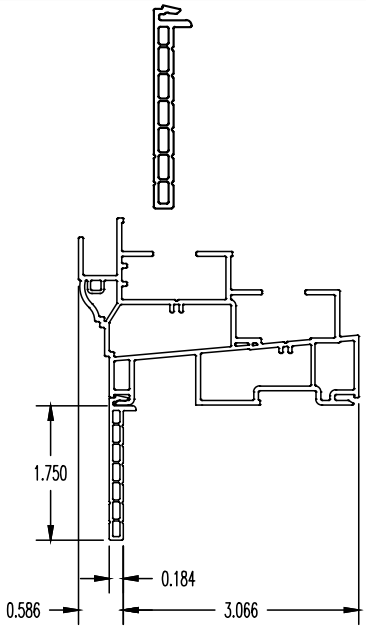
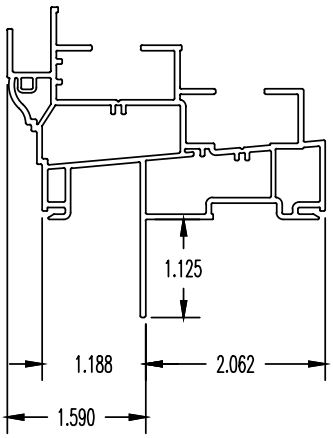


GLAZING BEAD



SILL EXTENDER

Accessories

Joining Mullion	Integral Nail Fin	Brickmold
Snap Mullion	Integral Nail Fin	Brickmold Nail Fin with J-Channel
 	Comes with J-channel cover strip to cover frame groove 	 
Exterior Cover		
Stucco Flange	Integral Nail Fin & J-Channel	
		

ECOLITE™ SLIDER



Standard Features

3¼" frame depth

SunShield® vinyl

¾" insulated glass with Intercept®
Blackline spacer & Low-E argon

Welded frame and sash construction

Slider pads for easy operation or removal

Exterior glazing

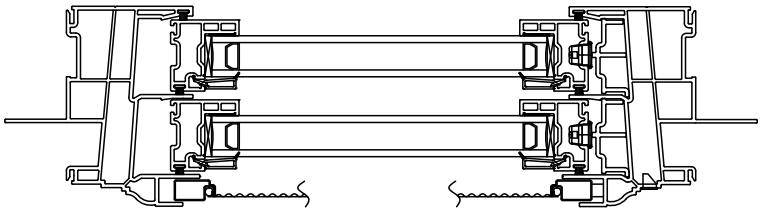
Dual weatherstripping

Two surface mounted sculptured sweep locks

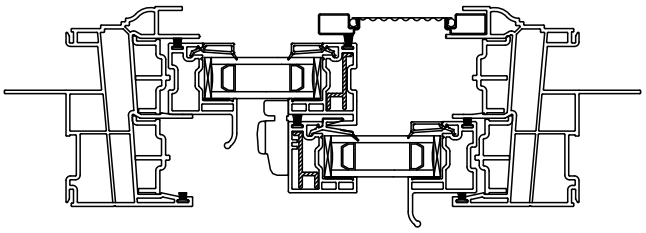
Roll formed aluminum half screen frame with
BetterVue® fiberglass mesh

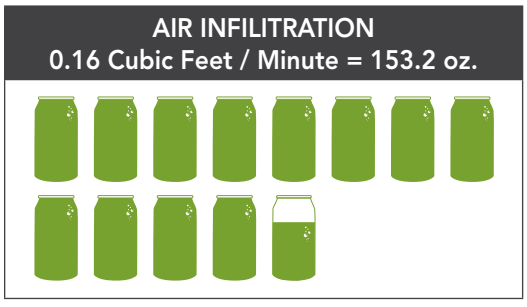
Assemblies

Side View

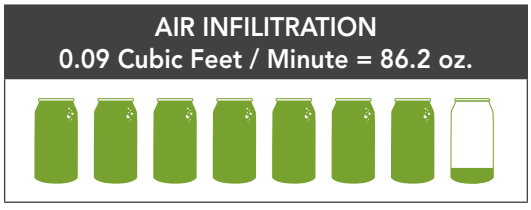


Top View



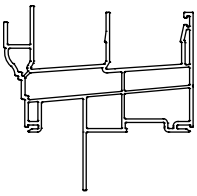


ecoLite Slider 63" x 44"		
TEST	TEST SPECIFICATION	RESULTS
Air	ASTM E 283	0.16 cfm/ft² @ 25 mph
Water	ASTM E 547	5.43 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-11-17	DP35 117 mph



ecoLite Single Slider 63" x 44"		
TEST	TEST SPECIFICATION	RESULTS
Air	ASTM E 283	0.09 cfm/ft² @ 25 mph
Water	ASTM E 547	5.43 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-11-17	DP40 125 mph

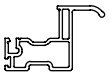
Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.



FRAME



LOCK SASH RAIL



PULL SASH RAIL



HORIZONTAL SASH RAIL



SLIDER TRACK



SASH REBAR

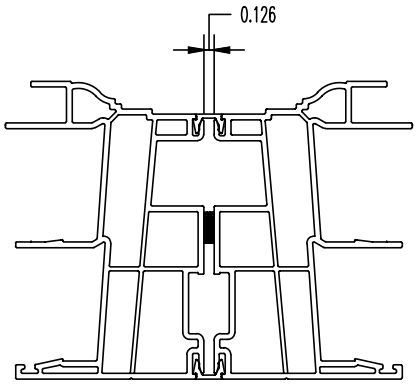
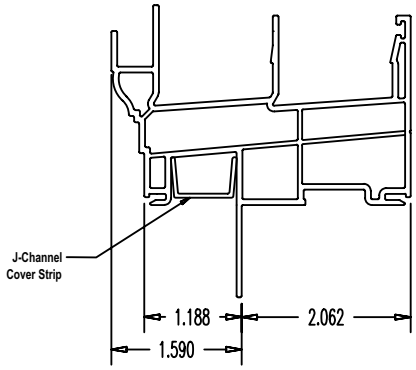
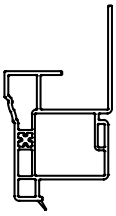
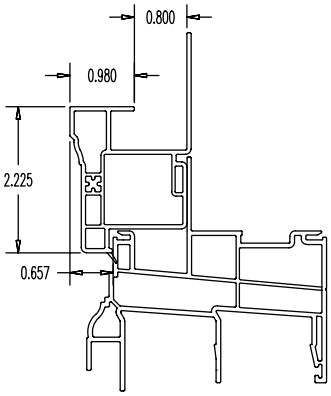
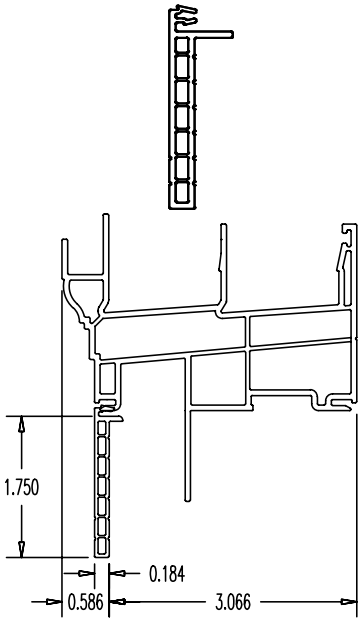
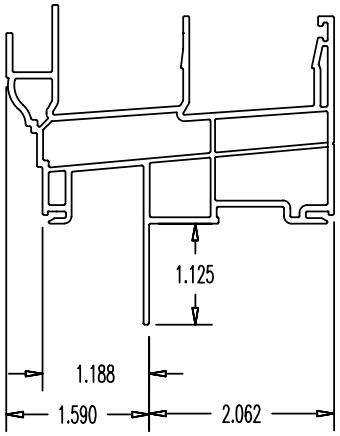


GLAZING BEAD



INTERLOCK GLAZING BEAD

Accessories

Joining Mullion	Integral Nail Fin	Brickmold
Snap Mullion	Integral Nail Fin	Brickmold Nail Fin with J-Channel
 	Comes with J-channel cover strip to cover frame groove 	 
Exterior Cover		
Stucco Flange	Integral Nail Fin & J-Channel	
		

ECOLITE™ PICTURE



Standard Features

3¼" frame depth

SunShield® vinyl

¾" insulated glass with Intercept® Blackline spacer & Low-E argon

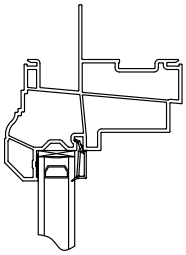
Welded frame with direct-set glass

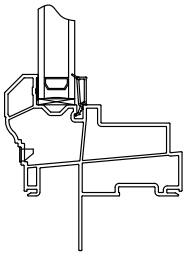
Interior glazing

Sloped sill

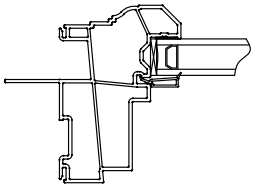
Assemblies

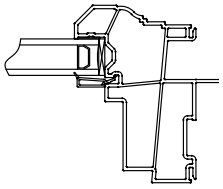
Side View





Top View



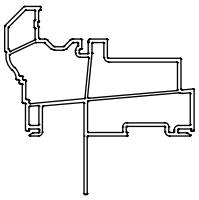


AIR INFILTRATION
0.01 Cubic Feet / Minute = 9.6 oz.



ecoLite Picture 60" x 60"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	ASTM E 283	0.01 cfm/ft² @ 25 mph
Water	ASTM E 547	12.12 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-8 and 11	DP50 141 mph

Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on triple strength glass. Other build configurations will produce different results.

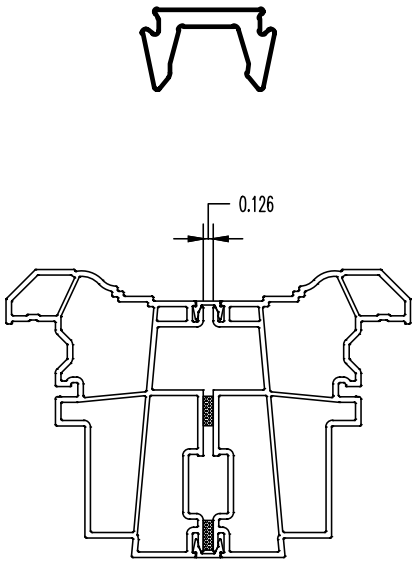
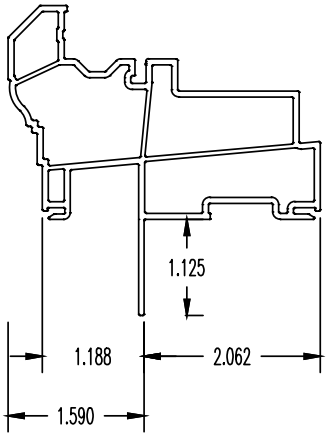
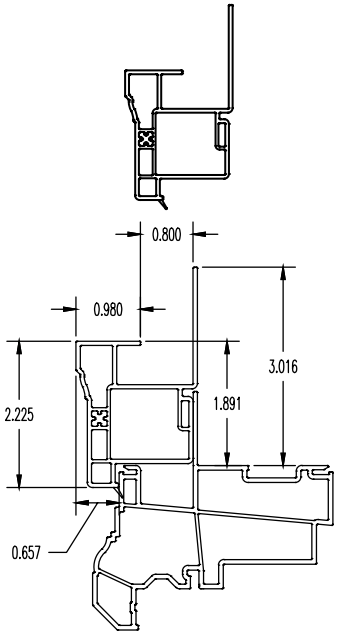
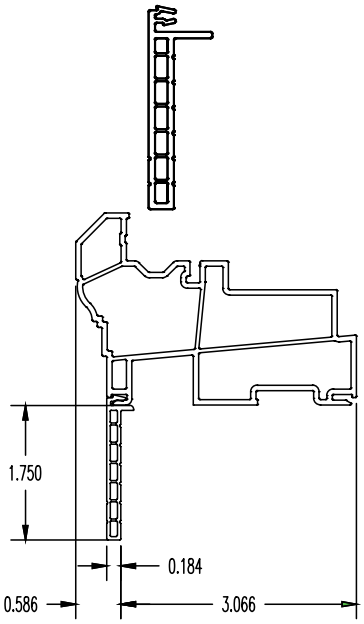
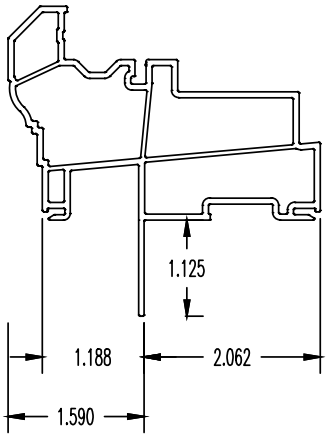


FRAME



GLAZING BEAD

Accessories

Joining Mullion	Integral Nail Fin	Brickmold
Snap Mullion	Integral Nail Fin	Brickmold Nail Fin with J-Channel
	Comes with J-channel cover strip to cover frame groove 	
Exterior Cover		
Stucco Flange	Integral Nail Fin & J-Channel	
		

ECOLITE™ PATIO DOOR



Standard Features

Welded frame with integrated nail fin and reinforced mechanical sash

White, single-point hardware with no keylock

3⅞" jamb depth

BetterVue® fiberglass screen with bottom track operation

Patented sliding system feature with 4 adjustable 1" wheels

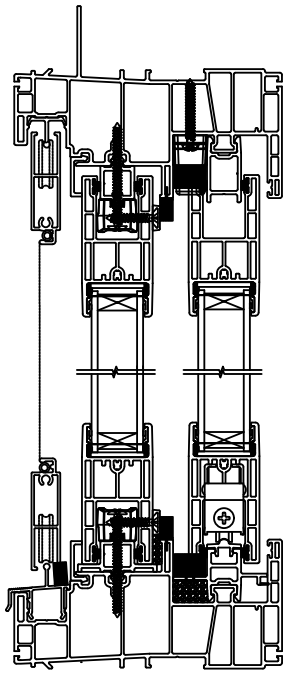
Strong, multi-chamber profiles with interior and exterior accessory grooves

Bottom sill protector for optimal drainage

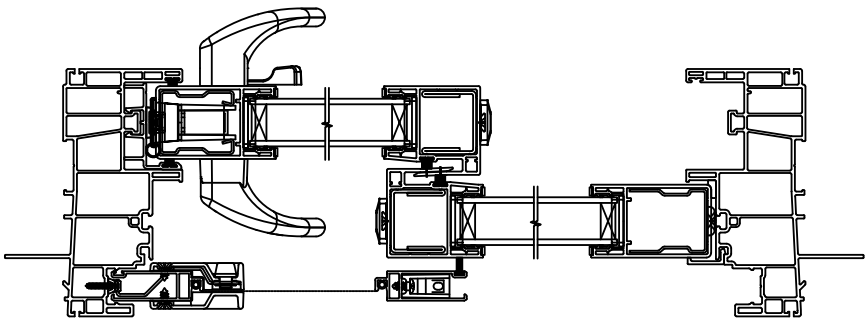
Standard 1" IGU with Intercept® Blackline spacer system and Low-E + argon tempered glass

Assemblies

Side View



Top View



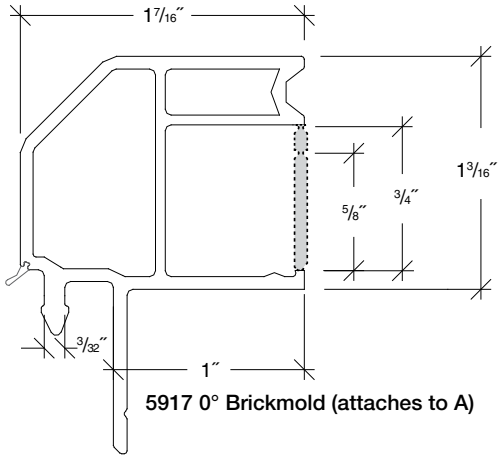
AIR INFILTRATION
0.10 Cubic Feet / Minute = 95.8 oz.



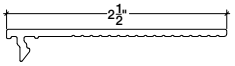
ecoLite 2-Lite Patio Door 72" x 82"		
TEST	**TEST SPECIFICATION**	**RESULTS**
Air	AAMA/WDMA/CSA 101/I.S.2/A440-08 & ASTM-E283-04	0.10 cfm/ft² @ 1.57 psf
Water	AAMA/WDMA/CSA 101/I.S.2/A440-08 & ASTM-E547-00	7.50 psf
Structural	AAMA/WDMA/CSA 101/I.S.2/A440-08 & ASTM-E330-02	DP55 148 mph

Test data is a result of sizes shown, configurations and lab conditions of a certified independent third-party laboratory. The data above is based on double strength glass. Other build configurations will produce different results.

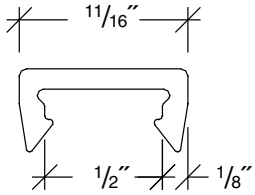
Accessories



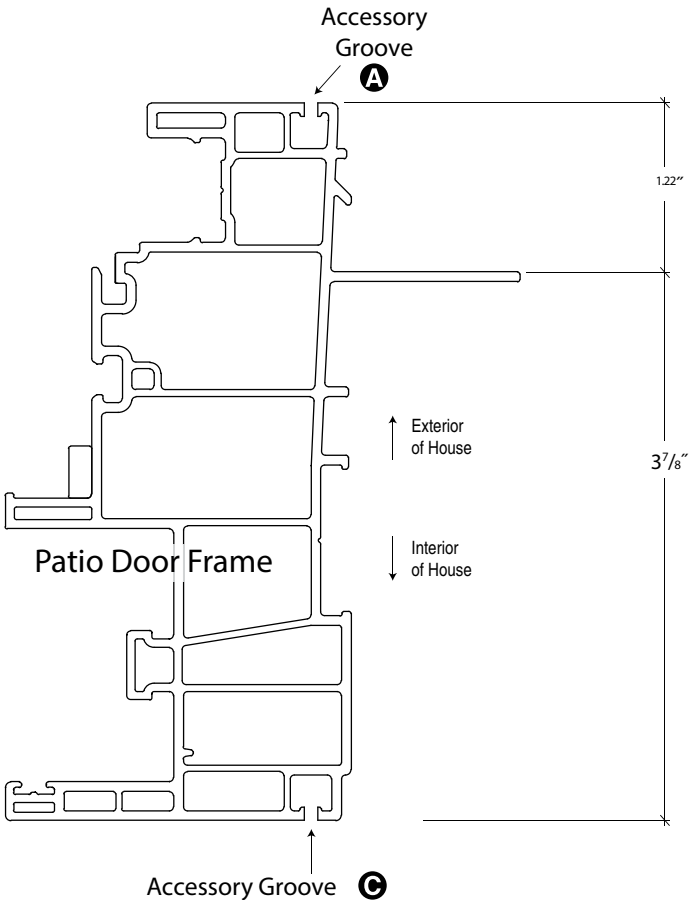
5917 0° Brickmold (attaches to A)

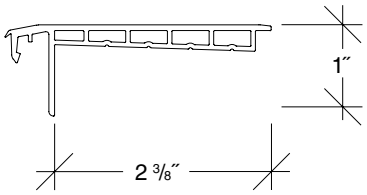


5927 External Frame Adapter
(attaches to A)

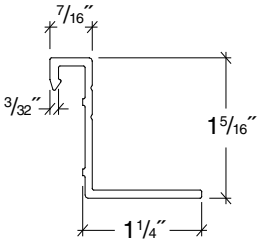


5928 0° Mullion Cover
(attaches to A & C)





5938 0° Stucco Flange
(attaches to A)



5956 Nail Fin
(attaches to A)
(will decrease jamb depth)

VINYL WINDOW SIZE LIMITS

AERIS™

MODEL	WIDTH	HEIGHT	MAX UI	NOTES
Double Hung	15" - 58"	25¾" - 86"	144	Window sash cannot exceed 27 sqft
2-Lite Slider	26¾" - 75"	15⅝" - 65"	140	Window frame size cannot exceed 34 sqft and sash cannot exceed 65 lbs.
3-Lite Slider (1/3-1/3-1/3)	47¾" - 120"	15⅝" - 65"	188	Window frame size cannot exceed 55 sqft.
3-Lite Slider (1/4-1/2-1/4)	50¾" - 120"	15⅝" - 65"	188	Window frame size cannot exceed 55 sqft and center sash cannot exceed 60" width.
Picture	12" - 120"	12" - 120"	160	Window frame size cannot exceed 45 sqft. Any window over 32 sqft requires tempered glass.
1-Lite Operating Casement	15¾" - 37"	22½" - 72"	108	Window frame size cannot exceed 20 sqft and sash cannot exceed 55 lbs.
2-Lite Casement	31¾" - 72"	22½" - 72"	144	Window frame size cannot exceed 34 sqft and sash cannot exceed 55 lbs.
3-Lite Casement (1/4-1/2-1/4)	64" - 120"	22½" - 72"	192	Window frame size cannot exceed 47 sqft and sash cannot exceed 55 lbs.
3-Lite Casement (1/3-1/3-1/3)	47⅞" - 108"	22½" - 72"	180	Window frame size cannot exceed 47 sqft and sash cannot exceed 55 lbs.
Fixed Casement	13¾" - 120"	13½" - 120"	160	Window frame size cannot exceed 36 sqft.
1-Lite Awning	18" - 52"	15½" - 52"	98	Window frame size cannot exceed 16 sqft. and sash cannot exceed 55 lbs.

ECOLITE™

MODEL	WIDTH	HEIGHT	MAX UI	NOTES
Double Hung	15¼" - 58"	24½" - 96"	144	Window sash cannot exceed 27 sqft
2-Lite Slider	26¾" - 84"	15⅞" - 65"	140	Window frame size cannot exceed 34 sqft and sash cannot exceed 65 lbs.
3-Lite Slider (1/3-1/3-1/3)	39¼" - 120"	16" - 65"	188	Window frame size cannot exceed 55 sqft and sash cannot exceed 65 lbs.
3-Lite Slider (1/4-1/2-1/4)	48½" - 120"	16" - 65"	185	Window frame size cannot exceed 55 sqft and sash cannot exceed 65 lbs.
Picture	12" - 96"	12" - 96"	164	
Hopper	14¼" - 48"	12" - 32"	80	

ENDURE™ & ASPECT™

MODEL	WIDTH	HEIGHT	MAX UI	NOTES
Double Hung*	15" - 58"	24⅞" - 96"	144	Window sash cannot exceed 34 sqft and sash cannot exceed 54lbs.
2-Lite Slider	27¼" - 89½"	16⅜" - 70"	140	Window frame size cannot exceed 34 sqft and sash cannot exceed 65 lbs.
3-Lite Slider (1/3-1/3-1/3)	39¼" - 120"	16⅜" - 70"	188	Window frame size cannot exceed 55 sqft and sash cannot exceed 65 lbs.
3-Lite Slider (1/4-1/2-1/4)	48½" - 120"	16⅜" - 70"	185	Window frame size cannot exceed 55 sqft and sash cannot exceed 65 lbs.
Picture	14⅛" - 120"	12" - 120"	160	Window frame size cannot exceed 45 sqft. Any window over 32 sqft requires tempered glass.
1-Lite Operating Casement	15¼" - 37"	16" - 72"	108	Window frame size cannot exceed 20 sqft and sash cannot exceed 63 lbs.
2-Lite Casement	31" - 72"	22½" - 72"	140	Window frame size cannot exceed 34 sqft and sash cannot exceed 63 lbs.
3-Lite Casement (1/4-1/2-1/4)	64" - 120"	22½" - 72"	166	Window frame size cannot exceed 47 sqft and sash cannot exceed 63 lbs.
3-Lite Casement (1/3-1/3-1/3)	47¼" - 111"	22½" - 72"	166	Window frame size cannot exceed 47 sqft and sash cannot exceed 63 lbs.
Fixed Casement	12" - 120"	12" - 120"	160	Window frame size cannot exceed 36 sqft. Any window over 32 sqft requires tempered glass.
1-Lite Awning	18" - 52"	14" - 52"	98	Window frame size cannot exceed 16 sqft and sash cannot exceed 55 lbs.
Hopper	14¼" - 48"	12" - 32"	80	

** Double Hung windows with FineLine corner welds have a minimum size of 16" wide x 26⅞" high.*

ALL WINDOW LINES

MODEL	WIDTH	HEIGHT	MAX UI	NOTES
Factory Mulled Units	112" max	96" max	175	Openings over 120" wide must have a self-supporting header and sill. For field mulled units over 96" tall, a structural mull is recommended.

"To serve, by caring for details in ways others won't." It's not just our mission, but a way of letting our light shine every day at ProVia®. We continually strive to put these words into action by providing unmatched quality and service. The P-icon symbolizes each employee's commitment to devoting the utmost care, pride and quality into each building product we manufacture…it's The Professional Way.

At ProVia, we manufacture energy efficient products and exercise corporate environmental stewardship by recycling, reducing pollution emissions and much more. In fact, our company has received repeated awards from the Environmental Protection Agency such as Partner of the Year - Sustained Excellence for outstanding efforts in energy savings.

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