

Aluminum Windows & Doors Series T-5000

THERMALLY BROKEN ALUMINUM

ecotech
WINDOWS & DOORS



FOR REPLACEMENT AND
NEW CONSTRUCTION APPLICATIONS

INNOVATION, QUALITY AND SERVICE



OUR MISSION, VISION AND VALUES

Ecotech Windows and Doors has focused on building new fenestration products that are within reach without compromising on quality. We have successfully developed long term relationships with our customers and will continue to deliver superior *quality* windows and doors; provide exceptional customer *service* and pursue business through *innovation* and advanced technology. Our company's vision is to be the industry leader by leveraging our German-inspired Resource Planning System alongside our commitment to advancing automation to efficiently bring innovative and on time delivery of products to our customers. Our active and energetic CEO has traveled extensively and exchanged ideas with reputable window and door manufacturers as well as various hardware suppliers all over the world with the goal of continuously introducing innovations to our products that will change the landscape of the industry.

We will continually strive to be a leader and a key player in the window and door industry by providing enhanced services that exceed expectations, build strong relationships and profitability to our esteemed customers whom we consider as business partners.

We believe in treating our customers with respect and faith. We grow through creativity, intervention, and innovation. We incorporate honesty, loyalty, integrity and business ethics into all aspects of our business functions. Backed by a strong and solid engineering team, continued innovation of all our existing and future products, and a commitment to the pursuit of excellence in product designs and customer service; rest assured that Ecotech Windows and Doors Inc has the ability to serve all your replacement and new construction projects.



THERMALLY BROKEN ALUMINUM WINDOWS AND DOOR SYSTEMS SERIES T-5000



Ecotech is proud to introduce its Thermally Broken Aluminum line of windows and patio doors T-5000, engineered with the latest thermal break technology, which reduces heat transmittance from the outside to your home, while delivering the slim sight lines and high strength to weight ratio.

Aluminum windows and doors provide a modern, clean look with high durability and strength. However, traditional aluminum has one significant disadvantage that makes it extremely unattractive in today's energy-conscious world: Heat conductivity. Aluminum's inherent high conductivity greatly increases the U-Factor of a window, making it a low-performing window system. Our German-Inspired Aluminum Series incorporates Thermal Breaks in its design, essentially separating the interior aluminum and exterior aluminum with a low heat conductive material. Our state of the art engineering and design makes it possible for you to enjoy the modern and clean look of our aluminum windows without sacrificing energy efficiency.

Aluminum is thermally stable which makes it a preferred option for fenestration products that will not swell, shrink or crack, particularly important characteristics in areas where humidity is high and temperature changes are harsh delivering long lasting performance.

Select Ecotech Aluminum Windows for your next project!

THERMALLY BROKEN ALUMINUM SERIES T-5000



THERMALLY BROKEN ALUMINUM WINDOW SYSTEM SERIES T-5000

With exceptional engineering and meticulously selected top of the line components, Ecotech's Thermally Broken Aluminum Windows Series T-5100 offers excellent options that will bring an elegant look and comfort to your home for many years to come. Take a closer look at our Aluminum Window and Doors features and benefits. Available with Nail Fin, Block frame and Replacement Flange for your replacement, remodel or new construction project.

Our Thermally Broken Aluminum Windows and Doors in tandem with dual and triple glaze glass packages deliver outstanding thermal performance and will keep your home cooler in the warm summer months while reducing your heating costs in the winter.

With many window styles and a full line of doors to select from, including folding and swing doors, and a wide variety of enhancements and glass options, the design possibilities for your project are endless. Extend your living area with unobstructed views and beautifully functional doors from Ecotech's Thermally Broken Aluminum Door Series T-5120 and matching Windows Series T-5100.



INNOVATION, QUALITY AND SERVICE



THERMALLY BROKEN ALUMINUM

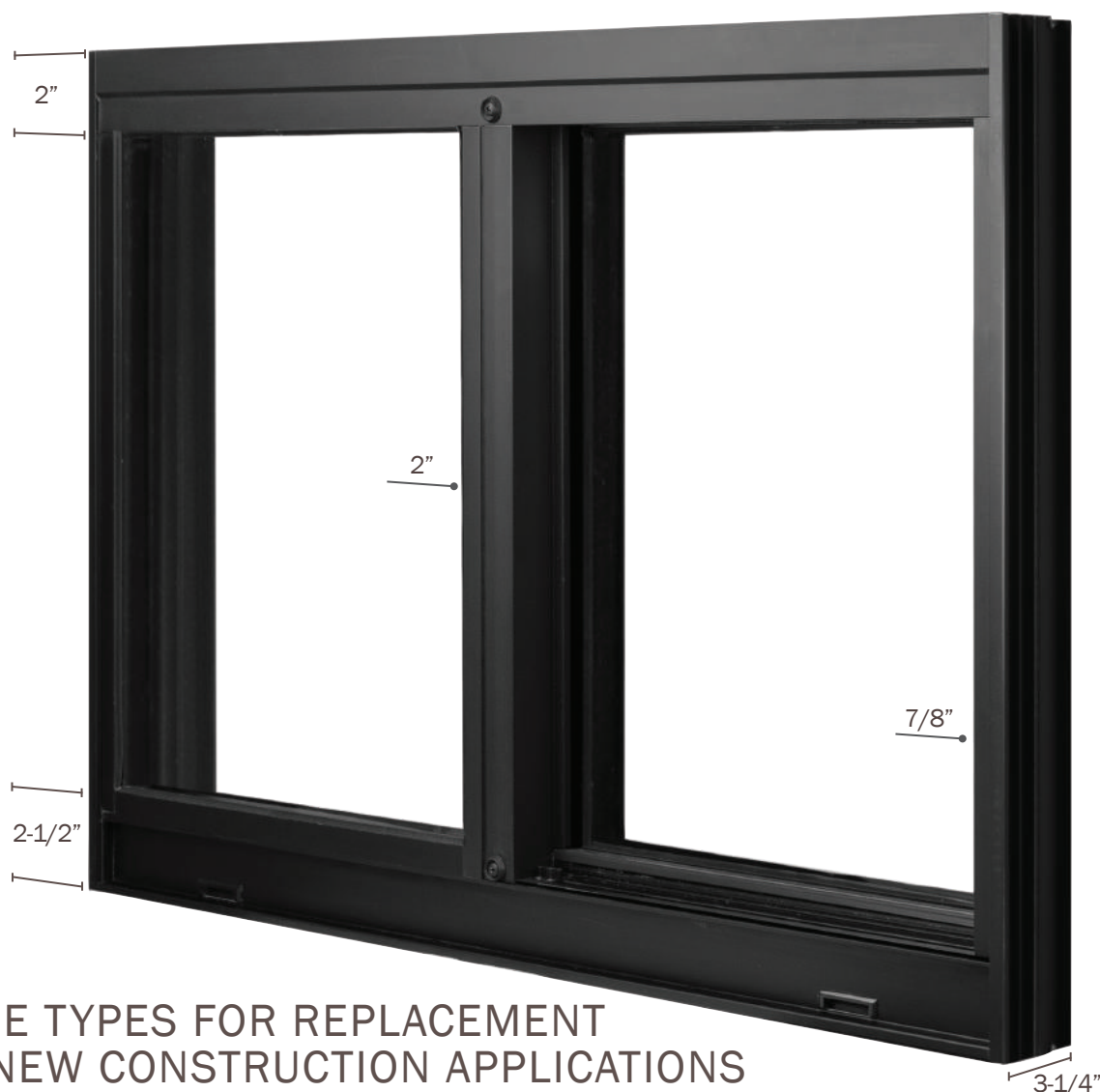


WINDOWS SYSTEM T-5100

PROUDLY MADE
IN THE USA 

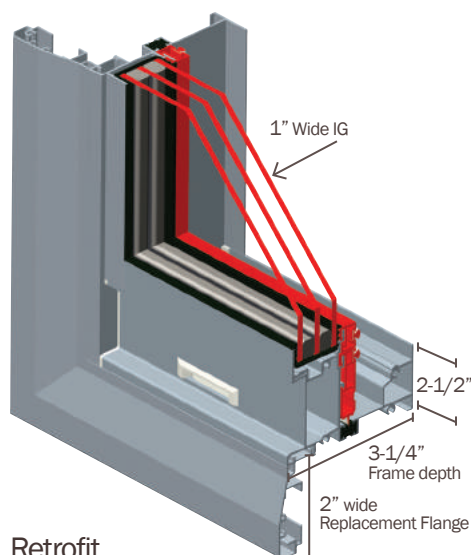


THERMALLY BROKEN ALUMINUM HORIZONTAL SLIDING WINDOWS SERIES T-5101



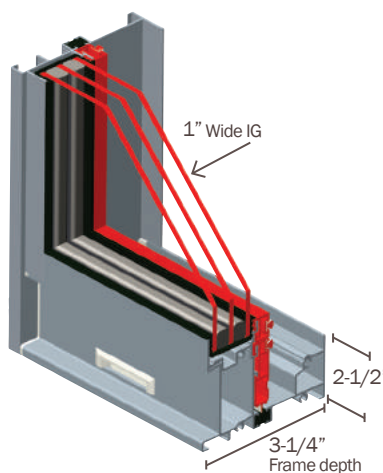
FRAME TYPES FOR REPLACEMENT AND NEW CONSTRUCTION APPLICATIONS

Also available in 1" Dual glaze featuring LoE3 glass and Argon Gas fill



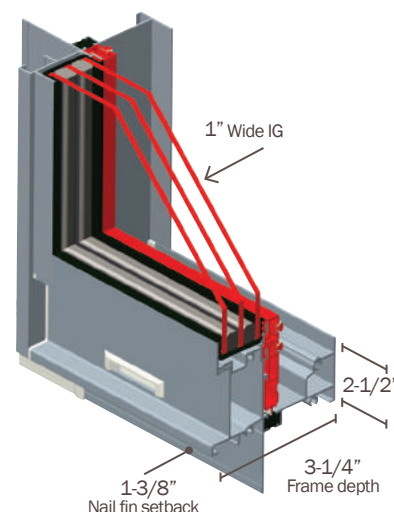
Retrofit

For replacement applications. 2" replacement flange allows for convenient installation with no need to break out stucco.



Block

For some replacement applications.



Nail-on

For new construction applications. This frame type allows targeted installation in a newly created opening. 1-3/8" set back to meet builders needs.

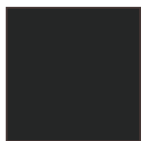


THERMALLY BROKEN ALUMINUM SLIDING WINDOWS FEATURES

Take a moment to learn about the outstanding features and benefits of our Thermally Broken Aluminum Horizontal Sliding Windows, which carry a Lifetime Warranty for your peace of mind.

STANDARD COLORS *

Standard extruded aluminum colors are Bronze Anodized and Clear Anodized with matching hardware.



Bronze Anodized



Clear Anodized

*Color swatches are intended as a representation only and may vary due to printing limitations.

Durability and ease of use

- Heavy duty extruded aluminum for structural strength and durability
- 20 mil anodizing thickness provides long lasting finish and consistent color
- Even sight lines for a balanced look
- Frame and sashes are mechanically fastened for additional support and structural integrity
- Reinforced non-hollow sill for superior strength
- Integral pull rail for easy operation of moving sash
- Heavy-duty replacement flange is 2" wide
- 1-3/8" nailing fin setback
- Optional Super spacer with a secondary butyl seal provides a secure IG seal
- Nylon composite bearing window rollers are standard. The bearings provide for an exceptionally smooth slide, while the nylon composite material provides additional durability and quietness compared to regular plastic or metal rollers
- Aluminum guide for window rollers for smooth operation
- Auto-lock matching the aluminum color features robust dual hooks for superior forced entry resistance and effortless long lasting performance
- Weep hole covers prevent debris from obstructing the drainage system and provide an aesthetic look
- Screen: Includes standard screen

Enhanced energy efficiency

- Beveled, multi-chambered extruded aluminum featuring thermal breaks improves thermal performance while providing a slim and elegant appearance
- 3-1/4" frame depth engineered to host heavier insulated glass units of specialty glass packages
- Optional Duralite spacer enhances thermal performance of glass components
- Full double weather stripping helps prevent elements infiltration
- 1" dual pane insulated glass unit featuring LoE3 glass is standard
- Optional triple pane glass for exceptional thermal performance
- Argon gas filled glass chambers for increased energy savings are standard for all glass packages

01

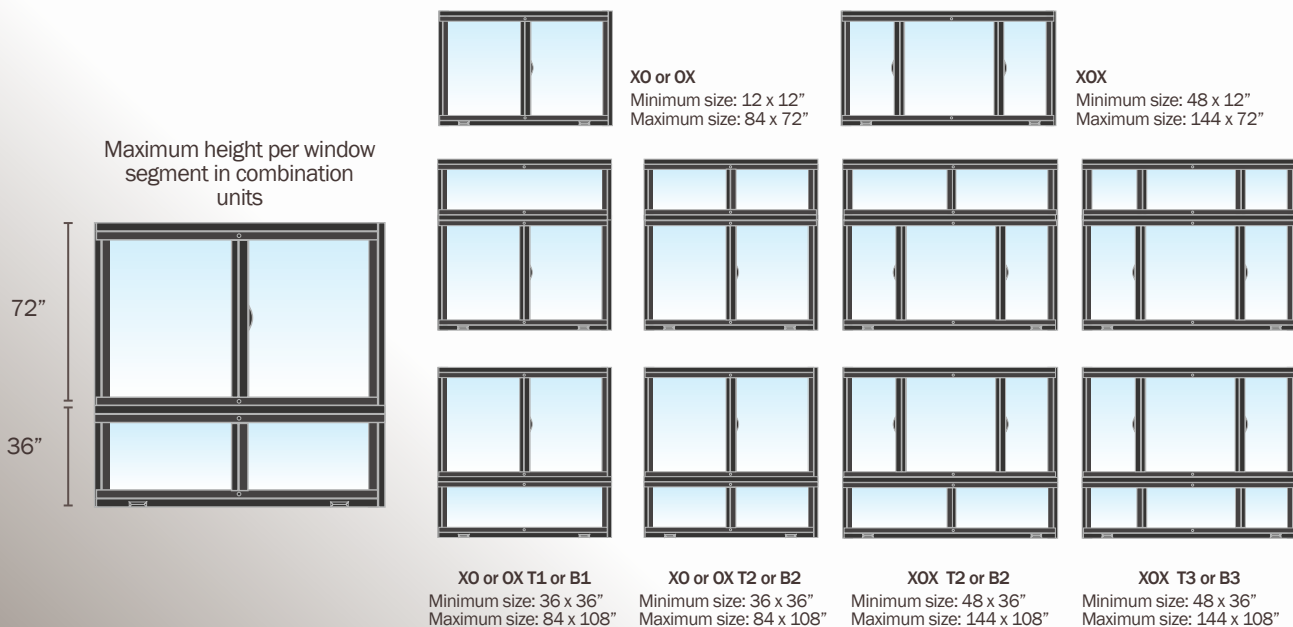
Horizontal Sliding Window features at a glance, inside view

- 01** Mechanically joined frame and sashes for solid construction
- 02** Heavy-duty aluminum frame and sash
- 03** Integral pull-rail
- 04** Bearing Nylon composite rollers
- 05** Auto-lock matching frame color with superior Forced Entry Resistance (FER)
- 06** Double weatherstripping



Block Frame
Horizontal Sliding window
in Bronze Anodized finish

HORIZONTAL SLIDING WINDOWS Available Styles and Combination Units



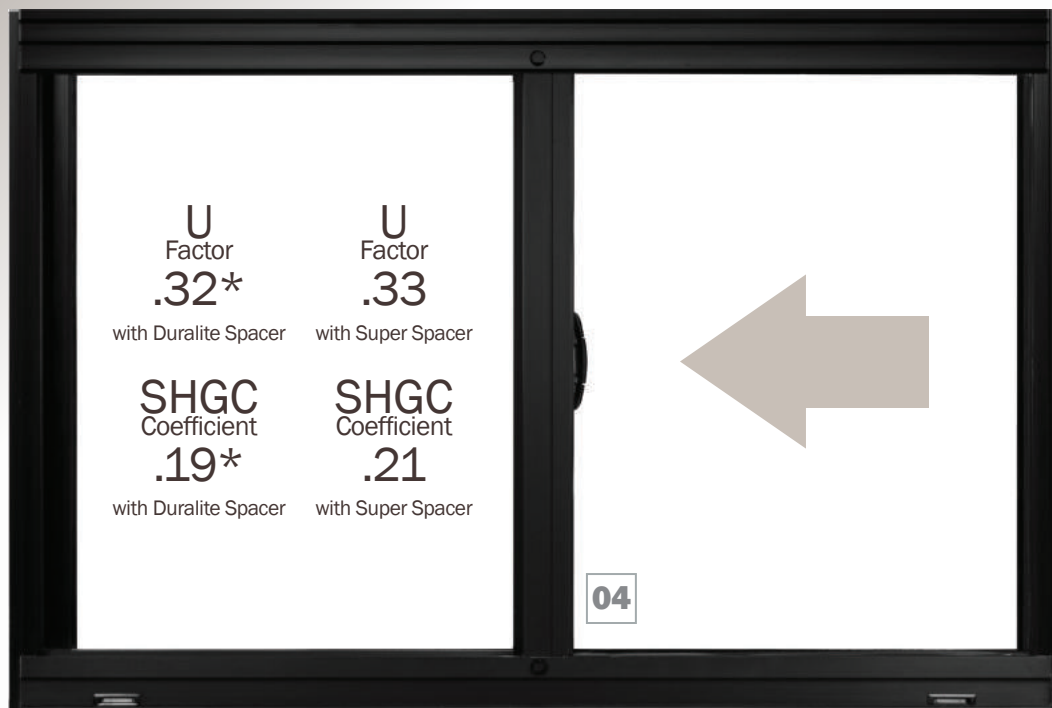
The configurations listed are only a glimpse of all the different possibilities.
Many different styles are available to meet your project needs.

SERIES T-5101

HORIZONTAL SLIDING WINDOW OUTSIDE FEATURES & PERFORMANCE

01

02



Horizontal Sliding Window
features at a glance,
outside view

- 01 Block frame
- 02 Firmly secured interlock
- 03 Covered weep-holes
- 04 Double weatherstripping

*Meets Title 24 Criteria for the State of California when ordered with Triple Glaze option featuring LoE3 high-performance glass and Duralite Spacer



Covered weep-hole

03

Horizontal Sliding Windows XO				Thermal Performance					Structural Performance
Glazing				Grids	U Factor	SHGC	VT	CR <small>Condensation Resistance</small>	
Triple	2 mm LoE3	2 mm Clear	2 mm LoE3	None	0.32	.21	.39	CR 36	LC-PG25 Size tested 71x59"
				3/4 -5/8"		.19	.35		
				1"		.17	.31		
Dual	6.35 mm Lami	3 mm LoE3		None	0.40	.23	.53	CR 36	
				3/4 -5/8"		.21	.47		
				>1"		.19	.42		
Dual	3 mm LoE3	3 mm Clear		None	0.41	.33	.54	CR 35	
				3/4 -5/8"		.30	.48		
				>1"		.27	.43		

As tested with LoE3 glass, Duralite Spacer and Argon gas filled combined with clear or laminated glass.

*Meets Title 24 Criteria for the State of California



CAREFULLY SELECTED HIGH-PERFORMANCE HARDWARE AND PARTS

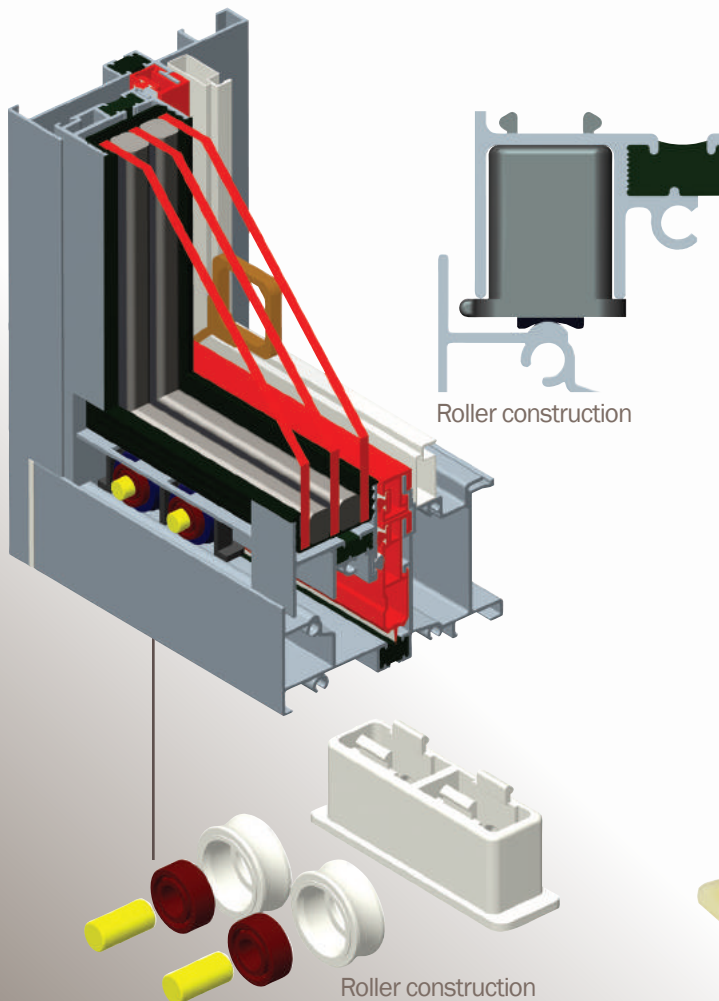
**SERIES
T-5101**

Auto-lock

Matching the aluminum color

Features robust dual hooks for superior forced entry resistance

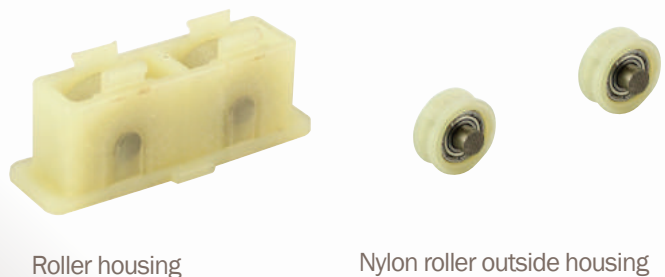
Effortless long lasting performance



Bearing Window Rollers

Our exclusive Nylon composite bearing rollers design allows them to hold securely even the heaviest insulated glass units, like the triple glaze or those featuring laminated glass, at the largest sizes with minimal effort.

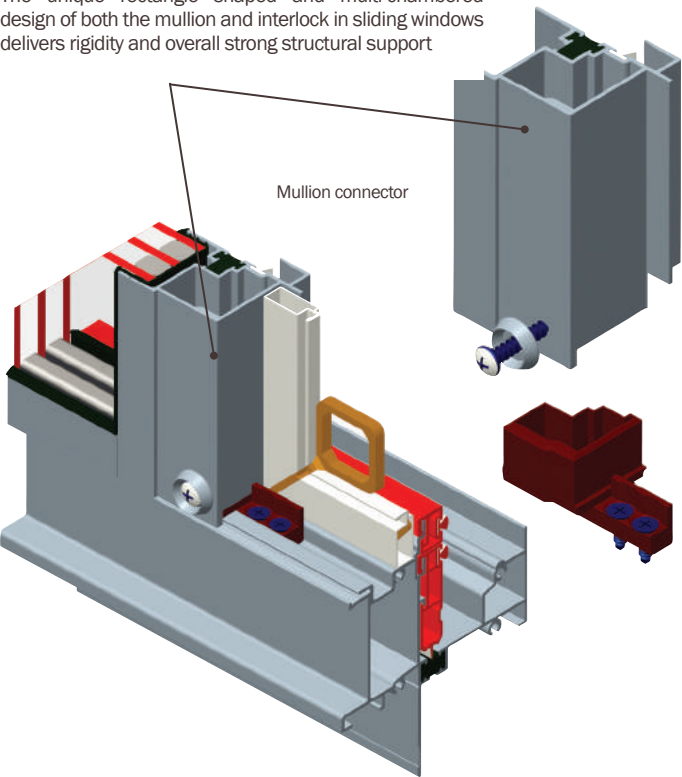
The use of these heavy-duty rollers protects the sash and prevents its failure by providing stability and support. The nylon composite material provides for a much quieter movement as compared to standard metal rollers and has long-lasting durability.



SUPERIOR DESIGN AND WINDOW CONSTRUCTION

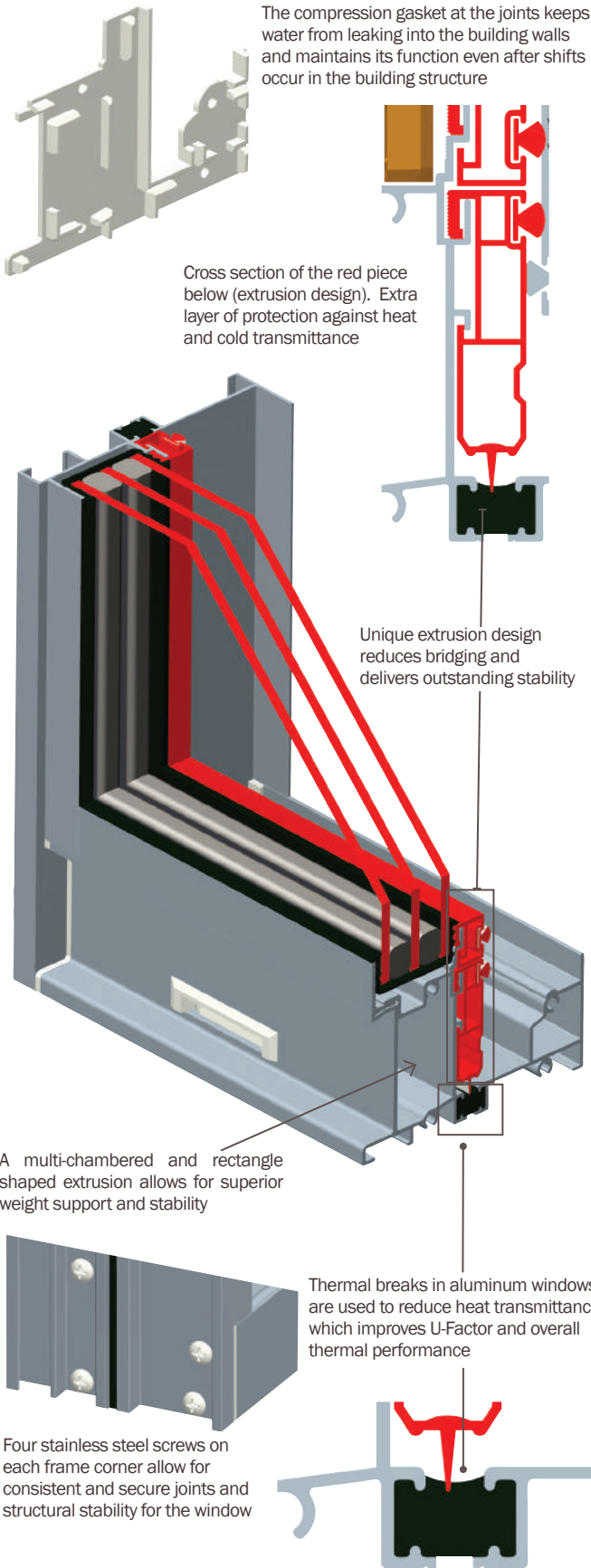
Interlock and mullion design

The unique rectangle shaped and multi-chambered design of both the mullion and interlock in sliding windows delivers rigidity and overall strong structural support

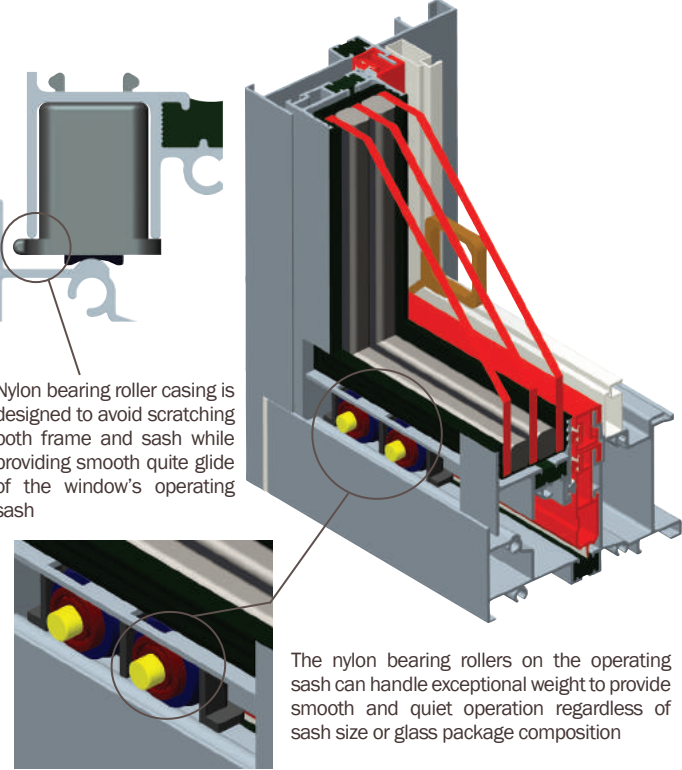


Frame and panel construction

The compression gasket at the joints keeps water from leaking into the building walls and maintains its function even after shifts occur in the building structure



Nylon composite bearing window rollers technology



Retrofit

FRAME TYPES FOR ALL APPLICATIONS

1" wide
Insulated Glass Unit

2-1/2"

3-1/4"
Frame depth

2"
Wide
Retro flange

Nail-on

1" wide
Insulated
Glass Unit

2-1/2"

3-1/4"
Frame depth

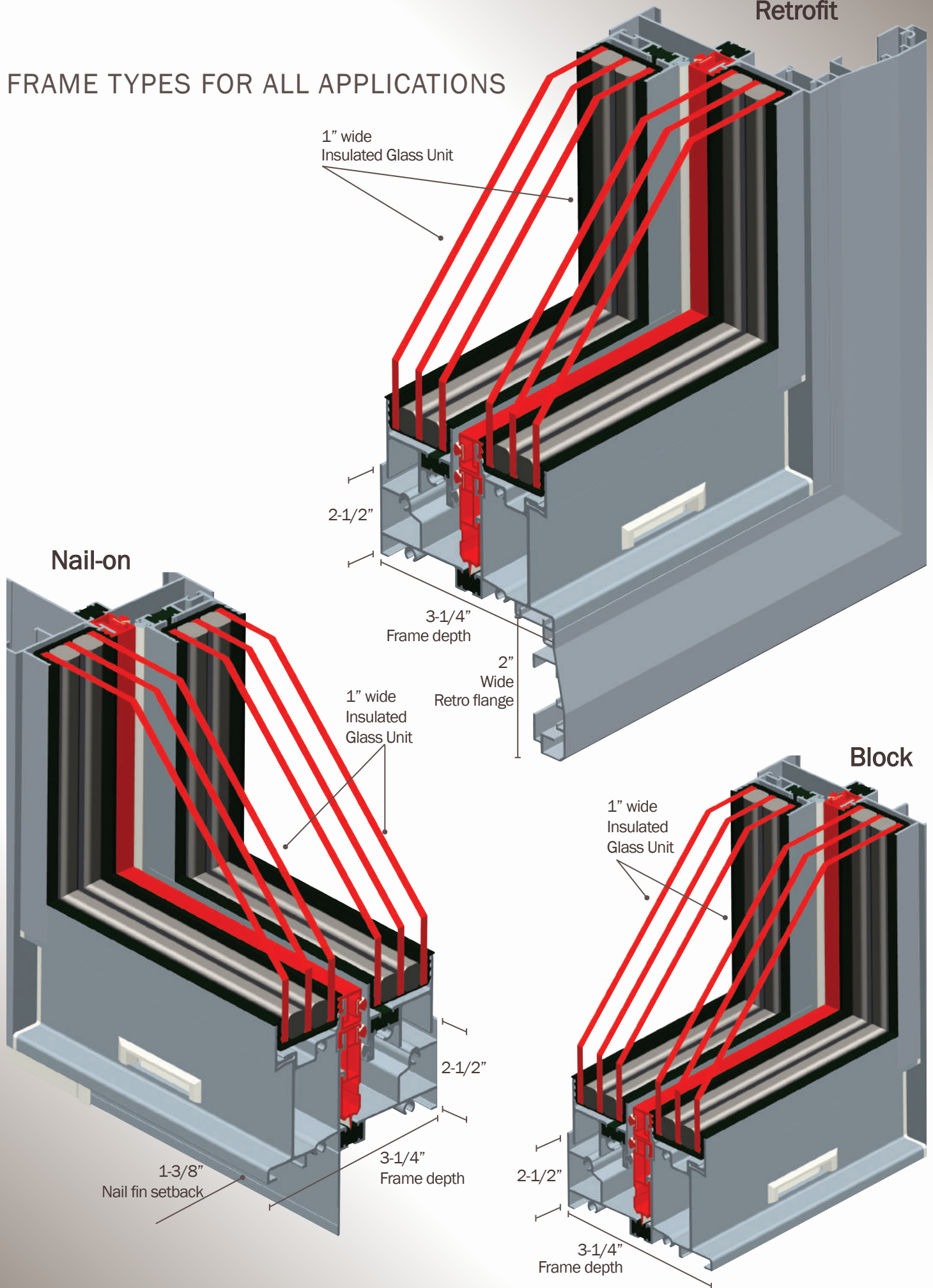
1-3/8"
Nail fin setback

Block

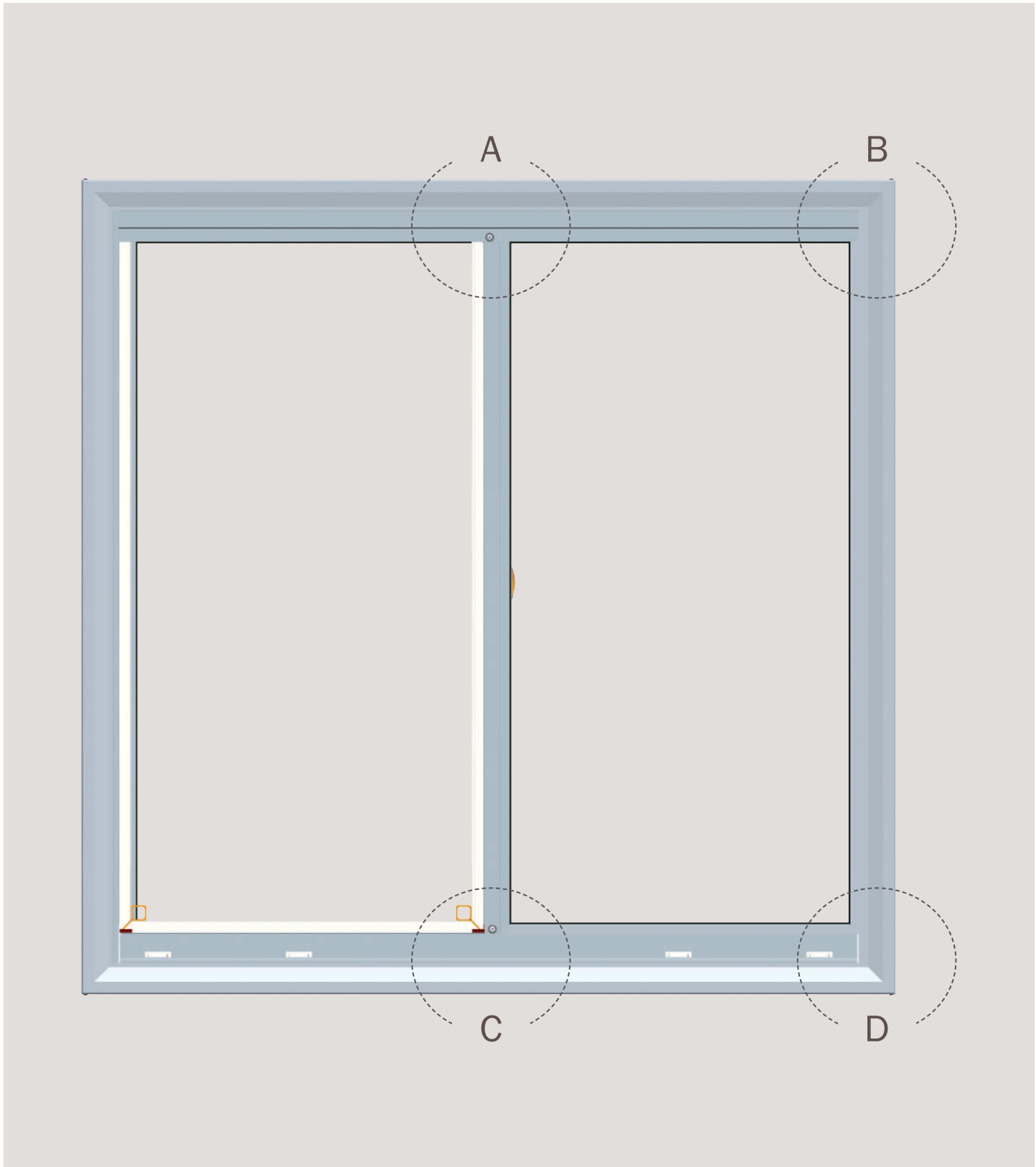
1" wide
Insulated
Glass Unit

2-1/2"

3-1/4"
Frame depth

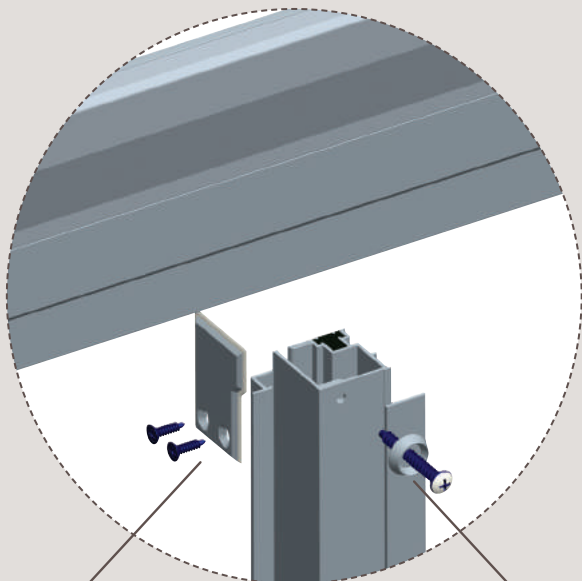


Thermally Broken Aluminum Horizontal Sliding Window AL-XO-5101



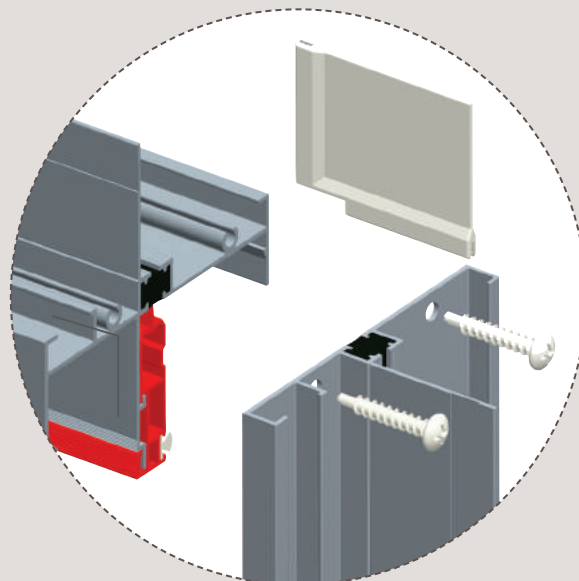
Thermally Broken Aluminum Horizontal Sliding Window AL-XO-5101 Sectional Drawings

A Stainless steel screws



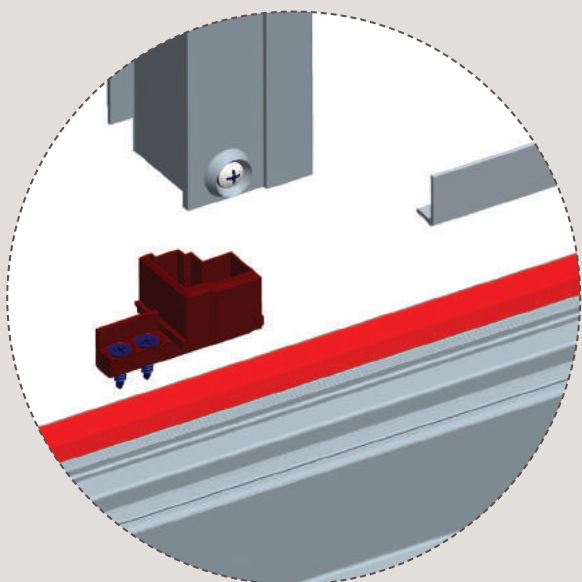
Four stainless steel screws ensure exceptionally tight and secure placement of interlock in the window main frame

B Mechanical corner connections



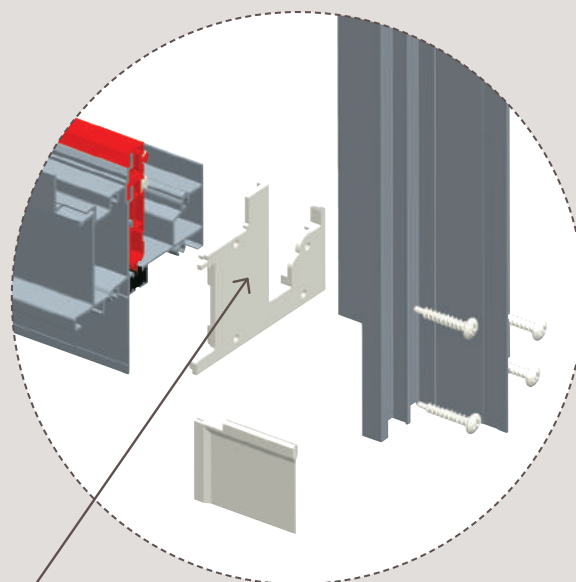
Joints are mechanically fastened together with stainless steel screws to provide high rigidity and strength

C Mullion connector



The unique rectangle shaped and hollow design of both the mullion and interlock in sliding windows delivers rigidity and overall strong structural support

D Compression gaskets

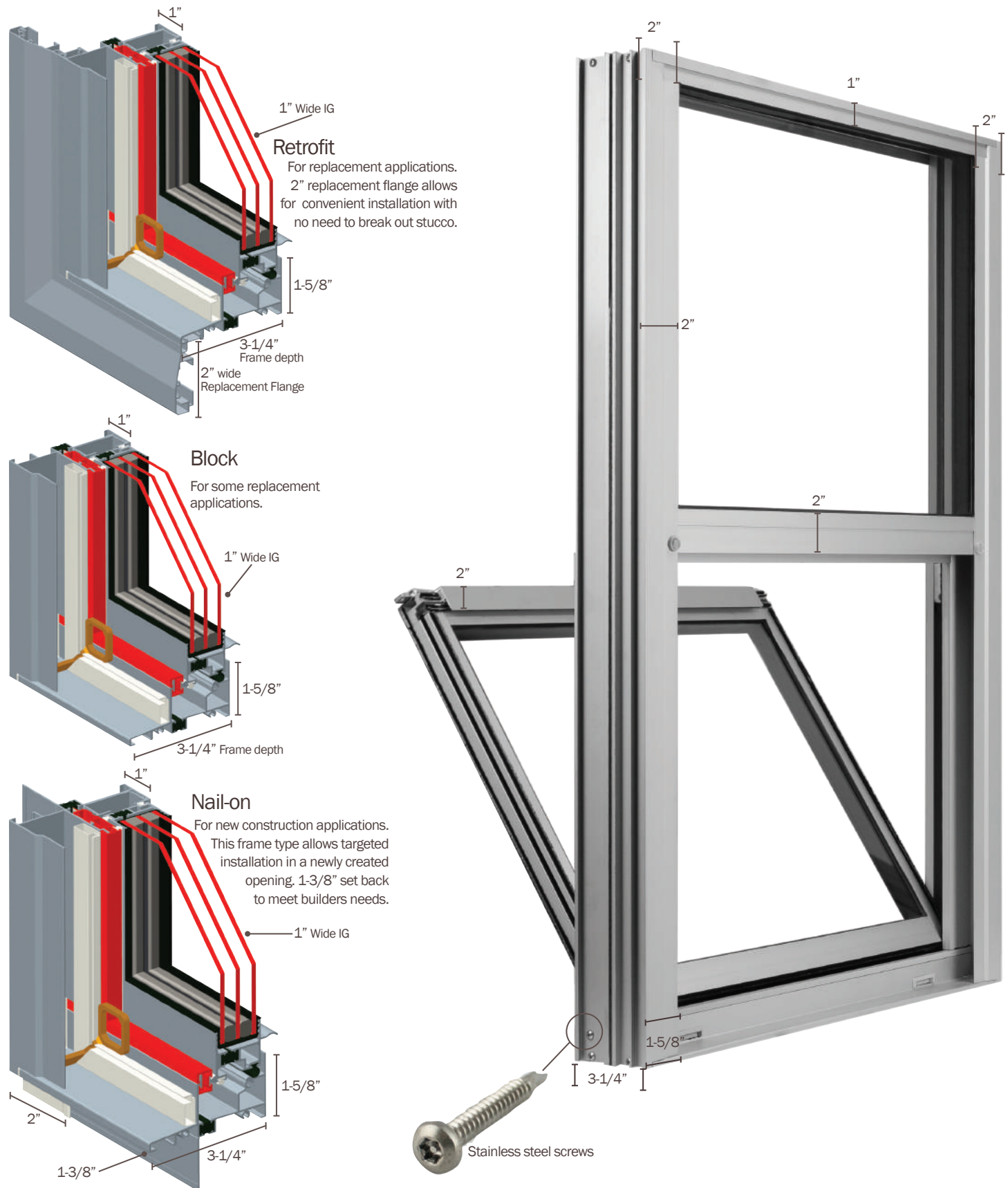


The compression gasket at the joints keeps water from leaking into the building walls and maintains its function even after shifts occur in the building structure.



THERMALLY BROKEN ALUMINUM TILT-IN SINGLE HUNG WINDOWS SERIES T-5102

FRAME TYPES FOR REPLACEMENT AND NEW CONSTRUCTION APPLICATIONS





THERMALLY BROKEN ALUMINUM TILT-IN SINGLE HUNG WINDOWS FEATURES & BENEFITS

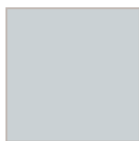
Take a moment to learn about the outstanding features and benefits of our Thermally Broken Aluminum Tilt-in Single Hung Windows, which carry a Lifetime Warranty for your peace of mind.

STANDARD COLORS*

Standard extruded aluminum colors are Bronze Anodized and Clear Anodized with matching hardware.



Bronze Anodized



Clear Anodized

*Color swatches are intended as a representation only and may vary due to printing limitations.

Durability and ease of use

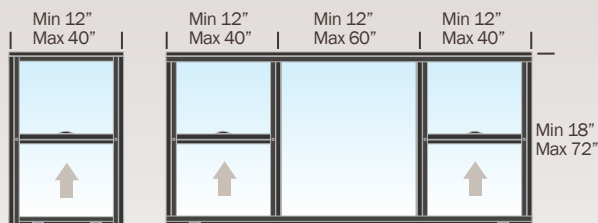
- Heavy duty extruded aluminum for structural strength and durability
- 20 mil anodizing thickness provides long lasting finish and consistent color
- Even sight lines for a balanced look
- Frame and sashes are mechanically fastened for additional support and structural integrity
- Reinforced non-hollow sill for superior strength
- Integral pull rail for easy operation of operating sash
- Heavy-duty replacement flange is 2" wide
- 1-3/8" nailing fin set back
- Optional Super spacer with a secondary butyl seal provides a secure IG seal
- Single Hung models allow operating sash to tilt in for safe and convenient cleaning from inside the home
- Hung models feature coils balance system which delivers superior capability to operate a heavy sash effortlessly
- Auto-lock matching the aluminum color features robust dual hooks for superior forced entry resistance and has the capability to operate a heavy sash smoothly
- Weep hole covers prevent debris from obstructing the drainage system and provide an aesthetic look
- Screen: Includes standard screen

Enhanced energy efficiency

- Beveled, multi-chambered extruded aluminum featuring thermal breaks improves thermal performance while providing a slim and elegant appearance
- 3-1/4" frame depth engineered to host heavier insulated glass units of specialty glass packages
- Optional Duralite spacer enhances thermal performance of glass components
- Full double weather stripping helps prevent elements infiltration
- 1" dual pane insulated glass unit featuring LoE3 glass is standard
- Optional triple pane glass for exceptional thermal performance
- Argon gas filled glass chambers for increased energy savings are standard for all glass packages

Tilt-in Single Hung Windows

Available Configurations and Combination Units

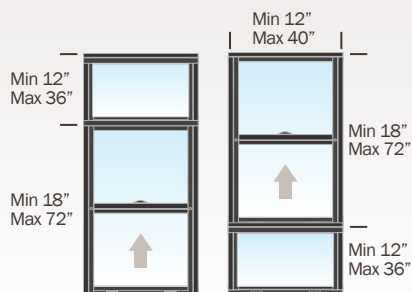


SHT

Minimum size: 12 x 18"
Maximum size: 40 x 72"

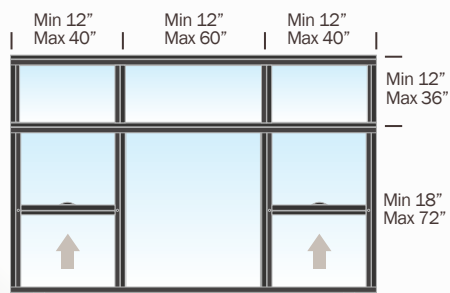
SHT-O-SHT

Minimum size: 36 x 18"
Maximum size: 140 x 72"



SHT T1 or B1

Minimum size: 12 x 30"
Maximum size: 40 x 108"



SHT-O-SHT T3 or B3

Minimum size: 36 x 30"
Maximum size: 140 x 108"

The configurations listed are only a glimpse of all the different possibilities. Many different styles are available to meet your project needs.



*Tilt-in Single Hung Windows
features at a glance, inside view*

- 01** Mechanical corner connections
- 02** Heavy-duty aluminum frame and sash
- 03** Constant force coils balance system
- 04** Integral pull rail
- 05** Auto-lock matching frame color with superior FER
- 06** Tilt latches
- 07** Double weather-stripping

SERIES T-5102

TILT-IN SINGLE HUNG WINDOWS OUTSIDE FEATURES & PERFORMANCE



01

U
Factor
.32*

with Duralite Spacer

U
Factor
.33

with Super Spacer

SHGC
Coefficient
.20*

with Duralite Spacer

SHGC
Coefficient
.20

with Super Spacer

04

03

*Tilt-in Single Hung Window
features at a glance,
outside view*

02

01

Block frame

02

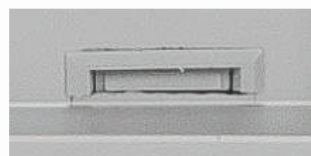
Firmly secured interlock

03

Covered weep-holes

04

Double weatherstripping



Covered weep-hole

*Meets Title 24 Criteria for the State of California when ordered with Triple Glaze option featuring LoE3 high-performance glass and Duralite Spacer



Tilt-in Single Hung Windows SHT				Thermal Performance				
Glazing				Grids	U Factor	SHGC	VT	CR Condensation Resistance
Triple	2 mm LoE3	2 mm Clear	2 mm LoE3	None	0.32	.20	.39	CR 37
				3/4 - 5/8"		.19	.35	
				1"		.17	.31	
Dual	6.35 mm Lami	3 mm LoE3		None	0.40	.23	.52	CR 36
				3/4 - 5/8"		.21	.47	
				>1"		.19	.42	
Dual	3 mm LoE3	3 mm Clear		None	0.40	.33	.53	CR 35
				3/4 - 5/8"		.30	.48	
				>1"		.27	.42	

As tested with LoE3 glass, Duralite Spacer and Argon gas filled combined with clear or laminated glass.

*Meets Title 24 Criteria for the State of California

CAREFULLY SELECTED HIGH-PERFORMANCE HARDWARE AND PARTS

**SERIES
T-5102**

Auto-lock

Matching the aluminum color

Features robust dual hooks for superior forced entry resistance

Effortless long lasting performance



Constant Force Coil Balance System

The ability to vertically move the sash in our single hung windows rests in a constant force balance system operated by interlocking 1/2" stainless steel coil springs in natural color housings, which allows the closing force to vary depending on the position of the sash.

This constant force balance system has been tested to hold our heaviest insulated glass units featuring three glass panes, laminated glass, and other glass packages; from 7 to 100 lb, offering up to 35" of movement.

Different length units are used based on the height of the window and may have up to four coils which allow an effortlessly and quiet operation of moving sash.



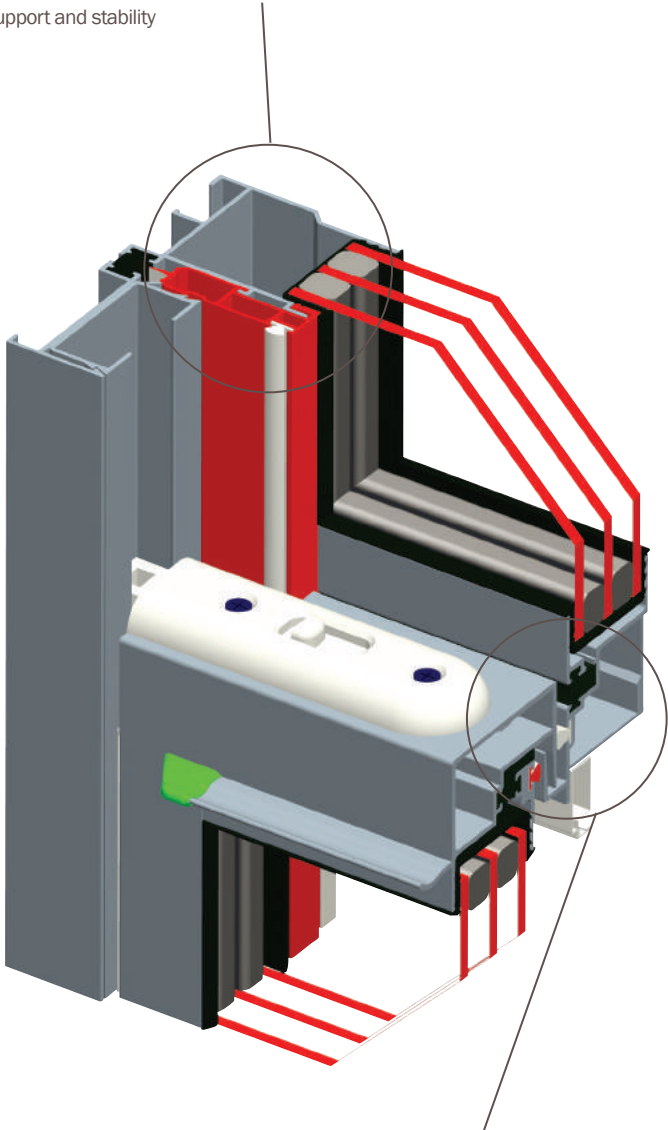
Individual coil



SUPERIOR DESIGN AND WINDOW CONSTRUCTION

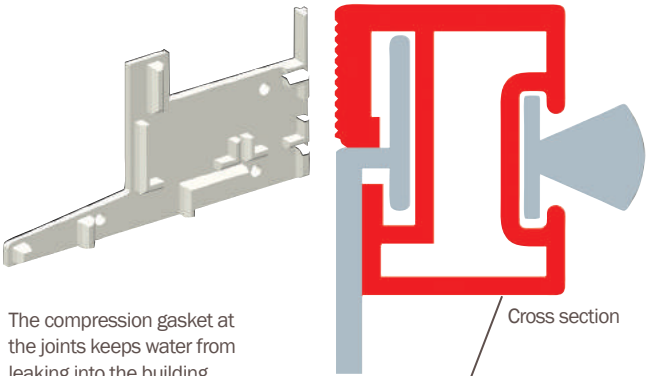
Extrusion, interlock and mullion design

A multi-chambered and rectangle shaped extrusion allows for superior weight support and stability



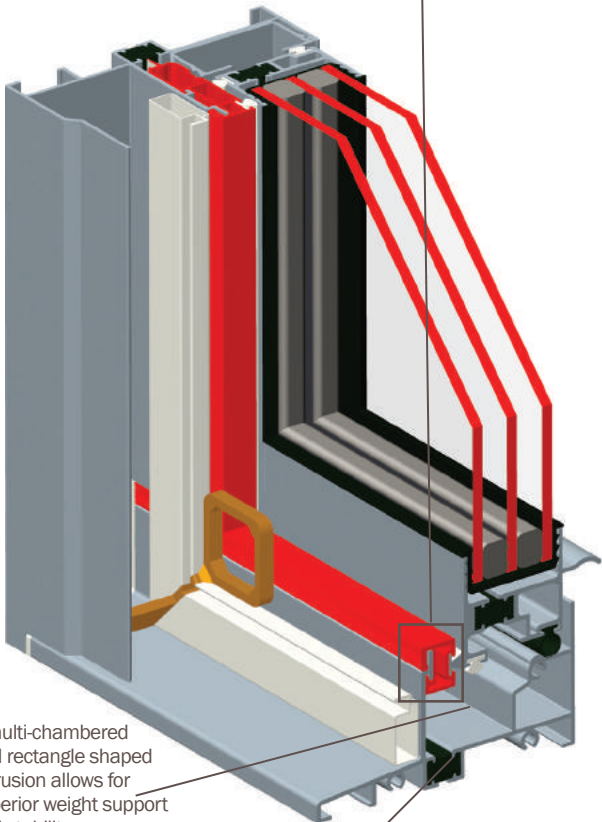
A unique rectangle shaped and multi-chambered design of both the mullion and interlock in tilt-in single hung windows delivers rigidity and overall strong structural support

Frame and panel construction



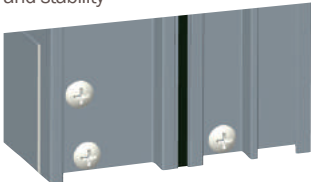
The compression gasket at the joints keeps water from leaking into the building walls and maintains its function even after shifts occur in the building structure

Unique extrusion design reduces bridging and delivers outstanding stability

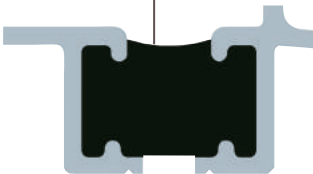


A multi-chambered and rectangle shaped extrusion allows for superior weight support and stability

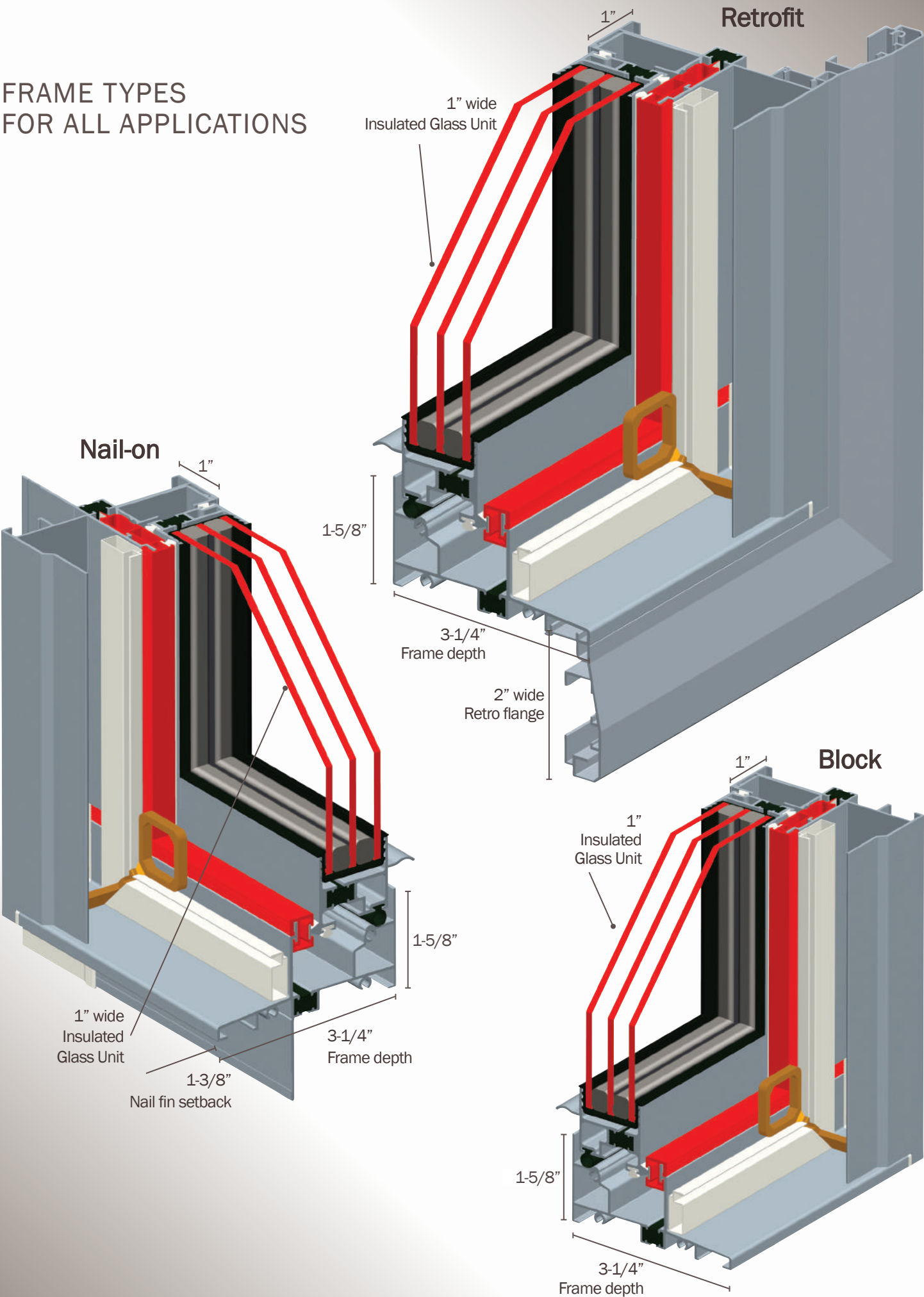
Thermal breaks in aluminum windows are used to reduce heat transmittance which improves U-Factor and overall thermal performance



Four stainless steel screws on each frame corner allow for consistent and secure joints and structural stability for the window

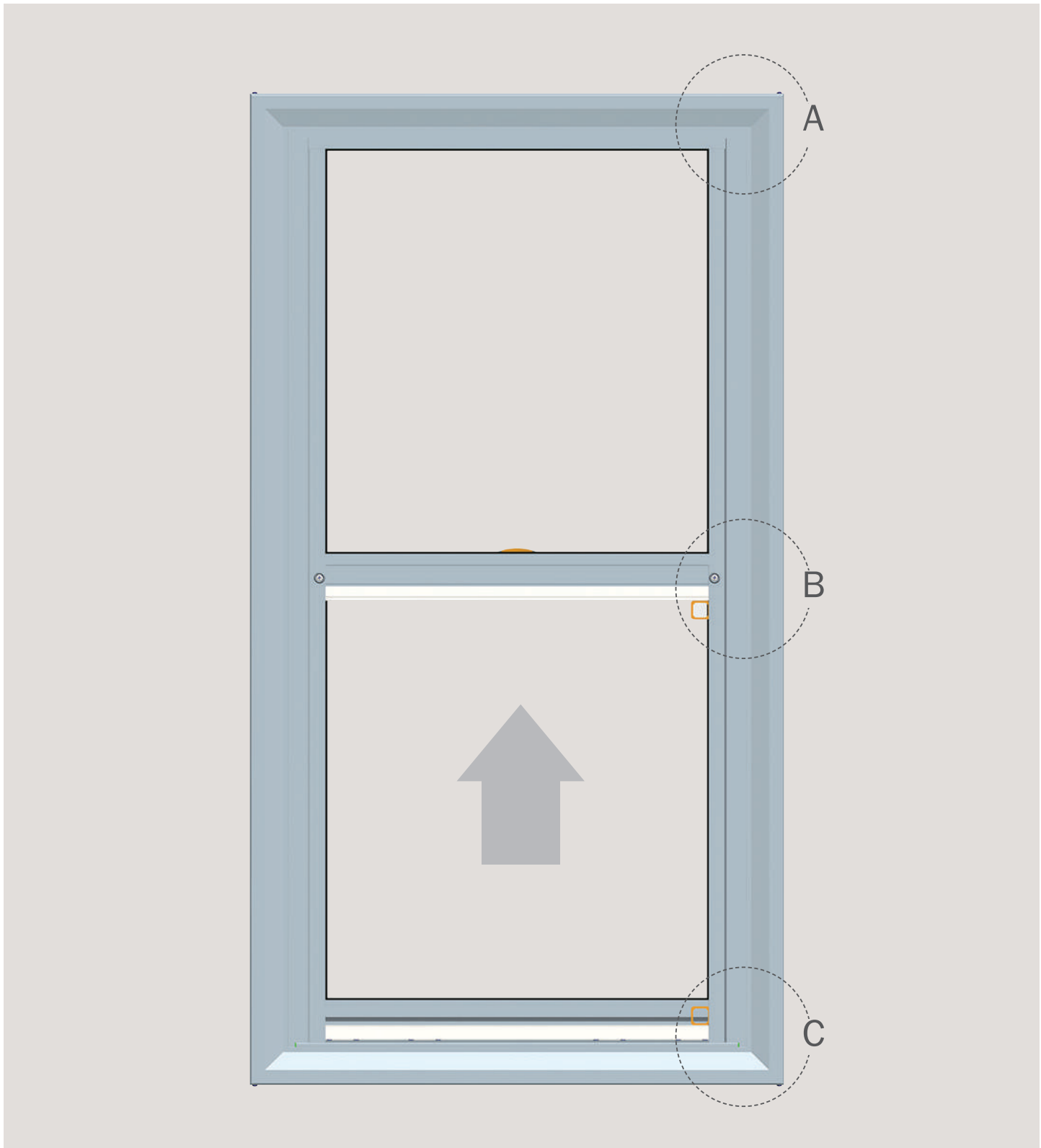


FRAME TYPES
FOR ALL APPLICATIONS



THERMALLY BROKEN ALUMINUM TILT-IN SINGLE HUNG WINDOWS

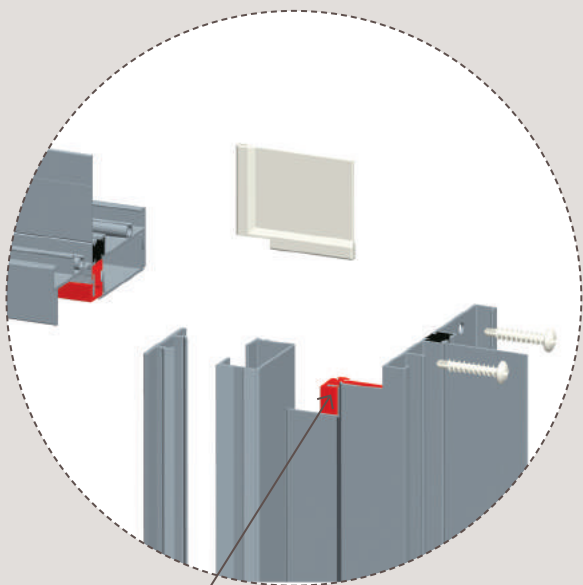
Thermally Broken Aluminum Tilt-in Single Hung AL-SHT-5102



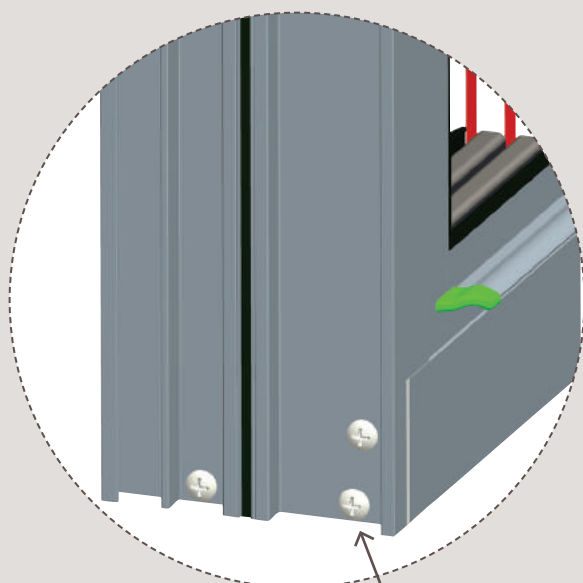
Thermally Broken Aluminum Tilt-in Single Hung AL-SHT-5102 Sectional Drawings

A Mechanical corner connections

Joints are mechanically fastened together with stainless steel screws to provide high rigidity and strength



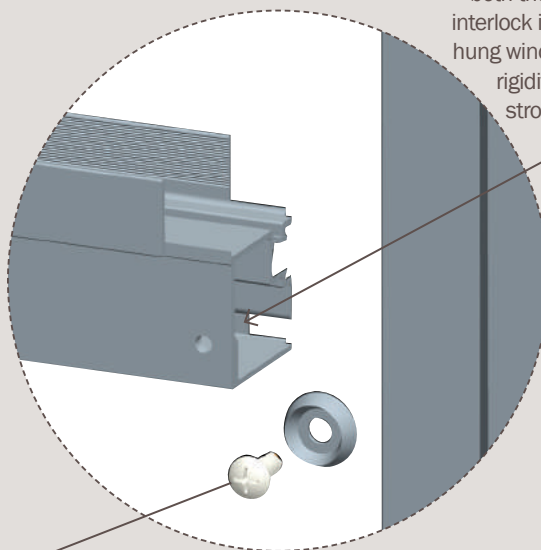
Vinyl composite inserts for an extra layer of protection for the frame against heat transmittance



Stainless steel screws

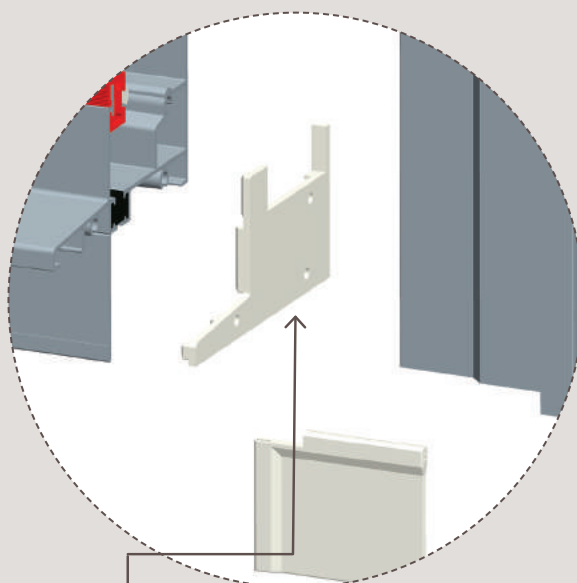
B Securely fastened interlock

The unique rectangle shaped design of both the mullion and interlock in tilt-in single hung windows delivers rigidity and overall strong structural support



Stainless steel screws ensure exceptionally tight and secure placement of interlock in the window main frame

C Nylon composite compression gasket



The compression gasket at the joints keeps water from leaking into the building walls and maintains its function even after shifts occur in the building structure

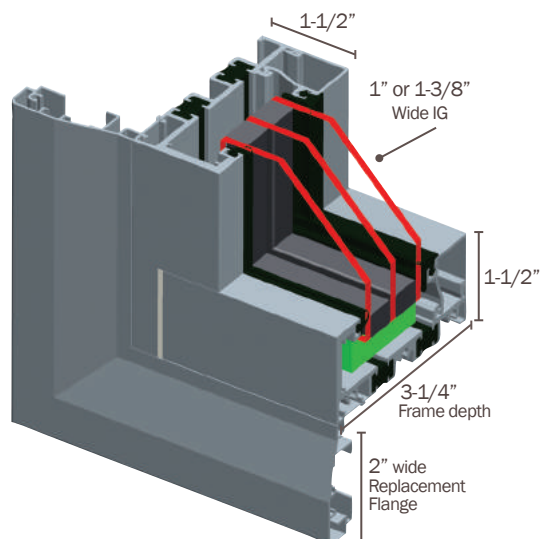


THERMALLY BROKEN ALUMINUM FIXED OR PICTURE WINDOWS SERIES T-5106

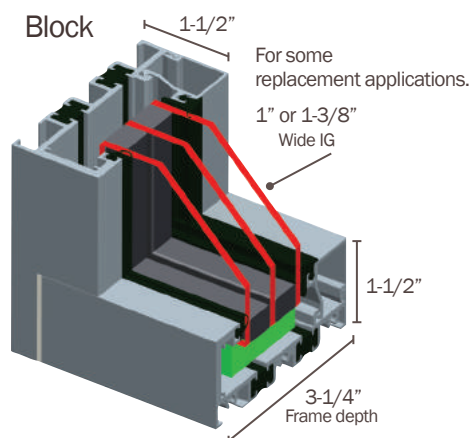
FRAME TYPES FOR REPLACEMENT AND NEW CONSTRUCTION APPLICATIONS

Retrofit

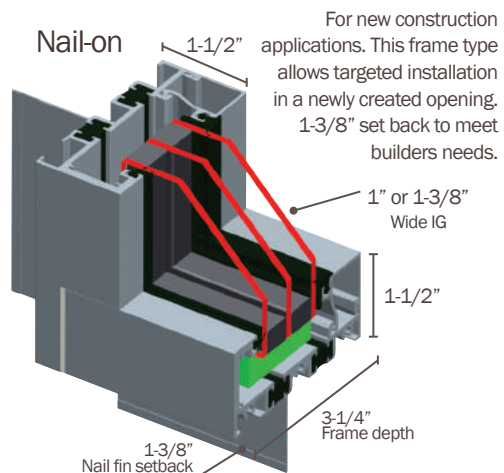
For replacement applications. 2" replacement flange allows for convenient installation with no need to break out stucco.



Block



Nail-on





THERMALLY BROKEN ALUMINUM PICTURE WINDOWS FEATURES & BENEFITS

Take a moment to learn about the outstanding features and benefits of our Thermally Broken Aluminum Picture Windows, which carry a Lifetime Warranty for your peace of mind.

STANDARD COLORS*

Standard extruded aluminum colors are Bronze Anodized and Clear Anodized with matching hardware.



Bronze Anodized



Clear Anodized

*Color swatches are intended as a representation only and may vary due to printing limitations.

Durability and ease of use

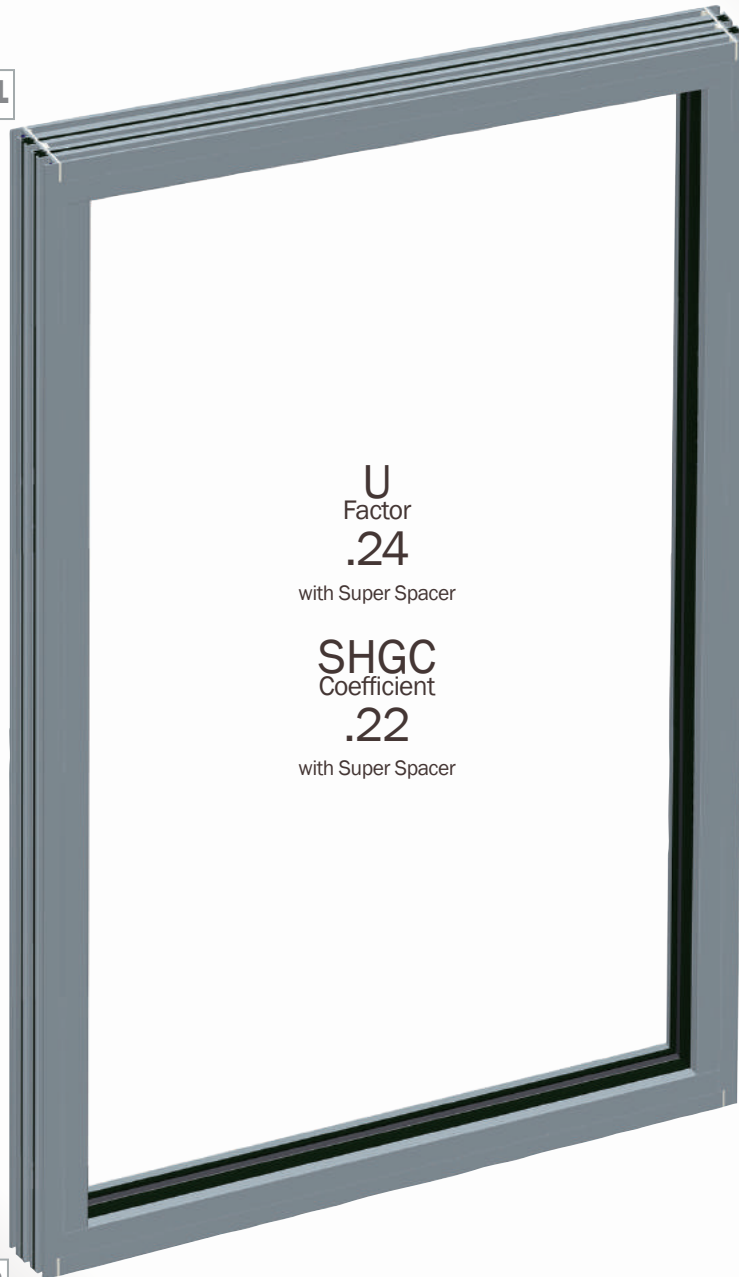
- Heavy duty extruded aluminum for structural strength and durability
- 20 mil anodizing thickness provides long lasting finish and consistent color
- Frame is mechanically fastened for additional support, and structural integrity
- Heavy-duty replacement flange is 2" wide
- 1-3/8" nailing fin setback
- Optional Super spacer with a secondary butyl seal provides a secure IG seal

Enhanced energy efficiency

- Beveled, multi-chambered extruded aluminum featuring thermal breaks improves thermal performance with a slim and elegant appearance
- 3-1/4" frame depth engineered to host heavier insulated glass units of specialty glass packages
- Optional Duralite spacer enhances thermal performance of glass components
- 1" or 1-3/8" insulated glass unit featuring LoE3 glass
- Optional triple pane glass for enhanced thermal performance
- Argon gas filled glass chambers for increased energy savings

THERMALLY BROKEN ALUMINUM PICTURE WINDOWS SERIES T-5106

01



U
Factor
.24

with Super Spacer

SHGC
Coefficient
.22

with Super Spacer

PICTURE WINDOW FEATURES & PERFORMANCE

*Picture Windows
features at a glance, inside view*

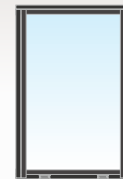
01

Mechanically joined corners

02

Heavy-duty aluminum frame and sash

Picture Windows



PW

Minimum size: 8 x 8"
Maximum size: 72 x 72"

Larger sizes are available by special order,
contact your sales representative for more details

02



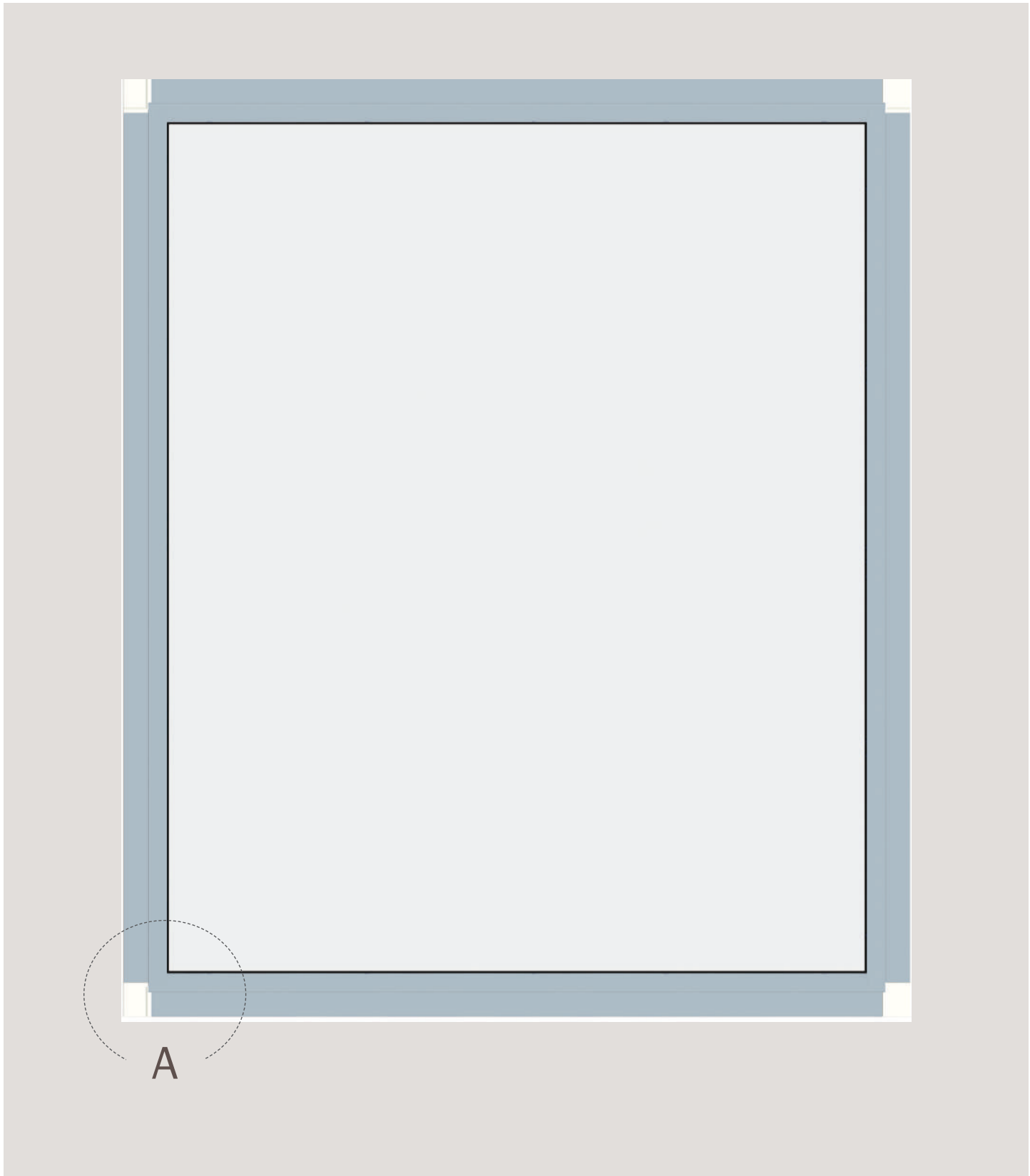
Picture Windows PW				Thermal Performance					Structural Performance
Glazing				Grids	U Factor	SHGC	VT	CR <small>Condensation Resistance</small>	
Triple	3 mm LoE3	3 mm Clear	3 mm LoE3	None	0.24	.22	.43	CR 37	CW-PG30 Size tested 70x60"
				3/4-5/8"	0.25	.20	.38		
				1"	0.26	.18	.34		
Dual	6.35 mm Lami	3 mm LoE3		None	0.31	.25	.58	CR 38	
				3/4-5/8"		.23	.52		
				>1"		.21	.47		
Dual	3 mm LoE3	3 mm Clear		None	0.32	.36	.59	CR 35	
				3/4-5/8"		.33	.53		
				>1"		.30	.48		

As tested with LoE3 glass, Super Spacer and Argon gas filled combined with clear or laminated glass.

*Meets Title 24 Criteria for the State of California

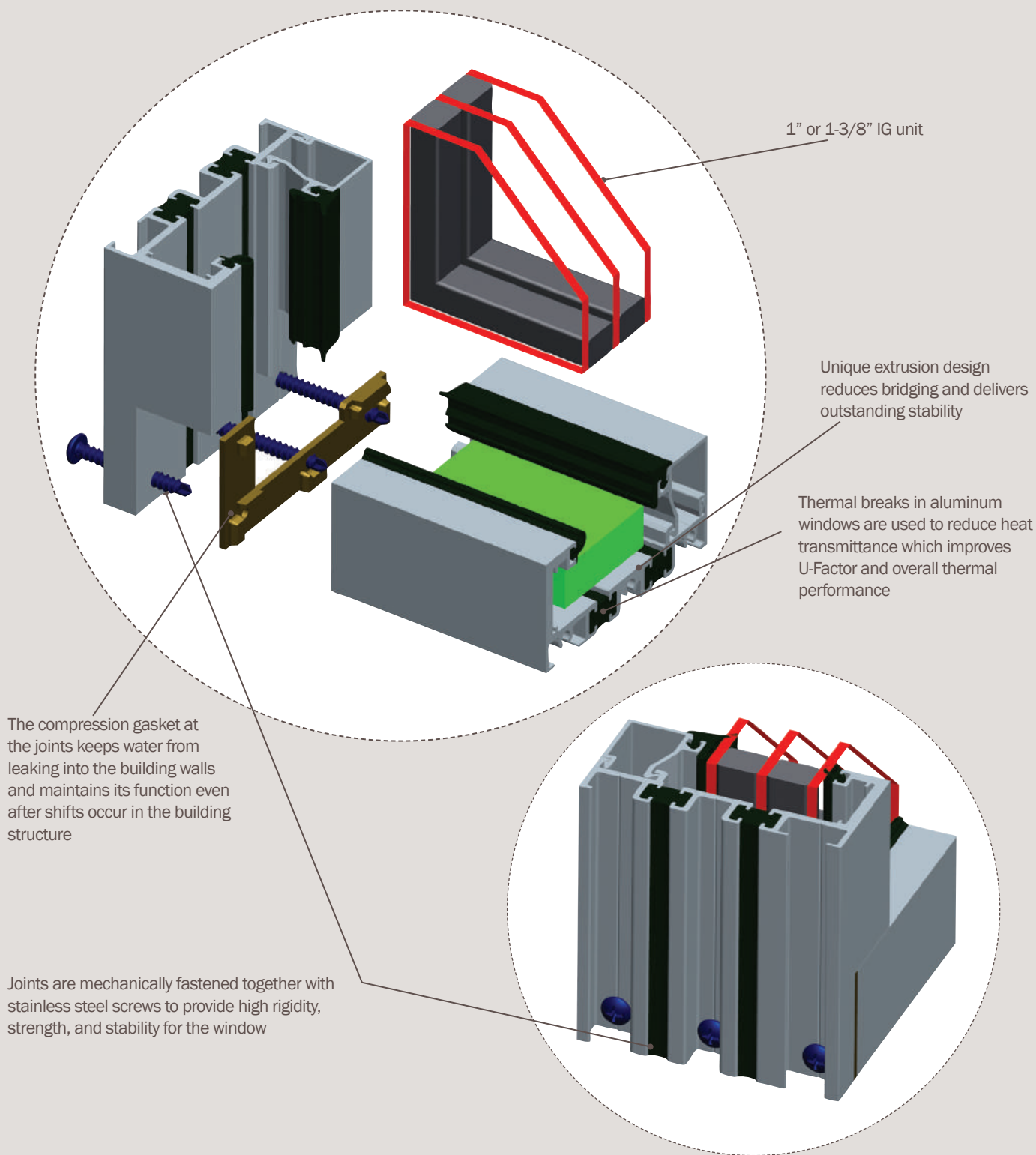
THERMALLY BROKEN ALUMINUM PICTURE WINDOWS SERIES T-5106

Thermally Broken Aluminum Picture Window AL-PW-5106



Thermally Broken Aluminum Picture Window AL-PW-5106 Sectional Drawings

A Mechanical corner connections



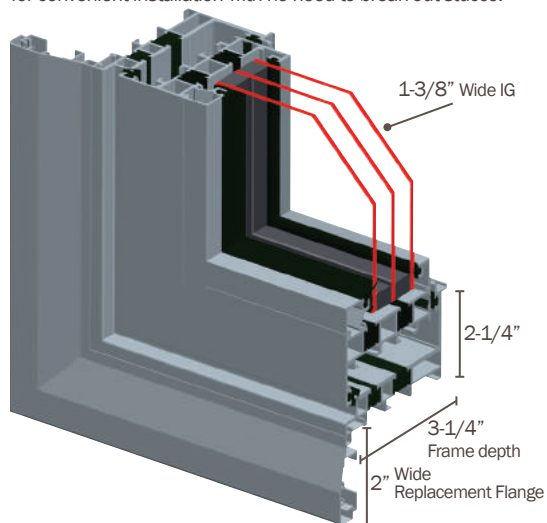


THERMALLY BROKEN ALUMINUM STANDARD CASEMENTS & AWNINGS SERIES T-5105

FRAME TYPES FOR REPLACEMENT AND NEW CONSTRUCTION APPLICATIONS

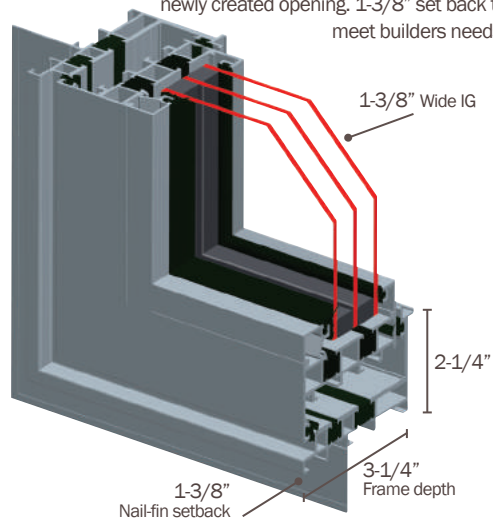
Retrofit

For replacement applications. 2" replacement flange allows for convenient installation with no need to break out stucco.



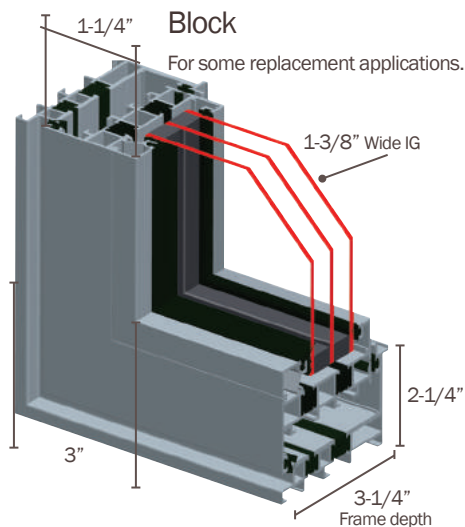
Nail-on

For new construction applications. This frame type allows targeted installation in a newly created opening. 1-3/8" set back to meet builders needs.



Block

For some replacement applications.





THERMALLY BROKEN ALUMINUM STANDARD SIZE CASEMENTS & AWNINGS FEATURES & BENEFITS

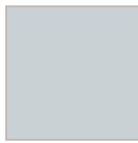
Take a moment to learn about the outstanding features and benefits of our Thermally Broken Aluminum Casements and Awnings, which carry a Lifetime Warranty for your peace of mind.

STANDARD COLORS *

Standard extruded aluminum colors are Bronze Anodized and Clear Anodized with matching hardware.



Bronze Anodized



Clear Anodized

*Color swatches are intended as a representation only and may vary due to printing limitations.

Durability and ease of use

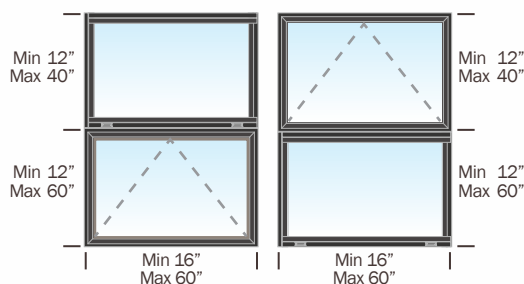
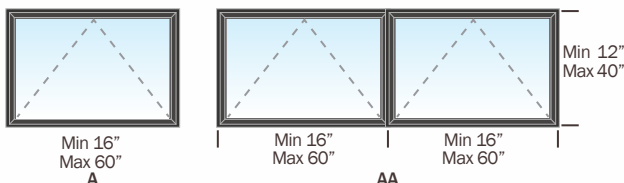
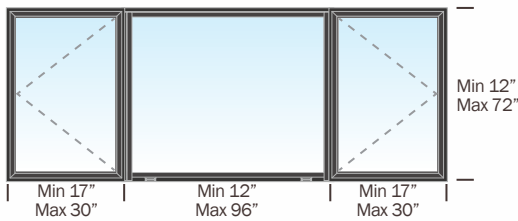
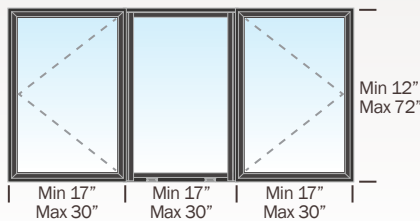
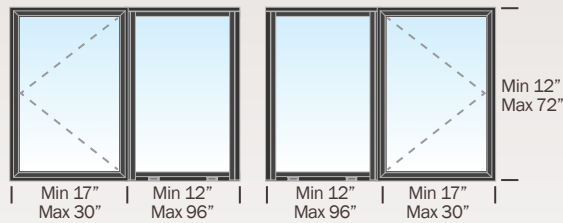
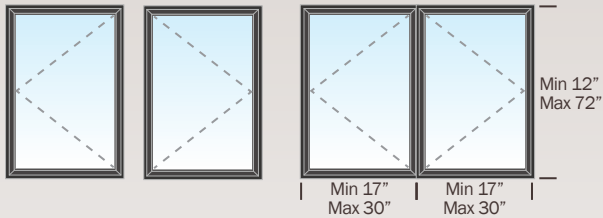
- Heavy duty extruded aluminum for structural strength and durability
- 20 mil anodizing thickness provides long lasting finish and consistent color
- Miter cut frame and sash construction for structural integrity
- Sashes are miter cut and feature screws for additional support and solid structure
- Heavy-duty replacement flange is 2" wide
- 1-3/8" nailing fin setback
- Super spacer with high-quality silicone for outstanding performance of glass and edge seal durability
- Casements and Awnings feature a slim operator cover and handle engineered to deliver superior performance and strength with a patented two-directional fixing design
- Operators provide optimized gear ratio for smooth operation of large sash and feature pre-fitted foam gasket for maximum air and water performance
- Low profile operators with only 8 mm projection with brush gasket in the handle retainer which provides an insect barrier
- Multi-point locking system
- Screen: Standard screen is included

Enhanced energy efficiency

- Beveled, multi-chambered extruded aluminum featuring thermal breaks improves thermal performance while providing a slim and elegant appearance
- 3-1/4" frame depth engineered to host heavier insulated glass units of specialty glass packages
- Optional Duralite spacer enhances thermal performance of glass components
- Full double weatherstripping helps prevent elements infiltration
- 1-3/8" insulated glass unit featuring LoE3 glass
- Optional triple pane glass for enhanced thermal performance
- Argon gas filled glass chambers for increased energy savings

Standard Casements & Awnings

Available Configurations and Combination Units



01



Standard Casement window features at a glance, inside view

- 01 Miter cut frame and sash solid construction
- 02 Heavy-duty aluminum frame and sash
- 03 Low profile operator and lock matching frame color
- 04 Double weatherstripping, frame and sash

SERIES T-5105

CASEMENT WINDOW OUTSIDE FEATURES & PERFORMANCE

01



02

Casement window
features at a glance,
outside view

01

Block frame

02

Miter cut frame and sash

03

Double weatherstripping

03

U
Factor
.32

with Super Spacer

SHGC
Coefficient
.17

with Super Spacer

Meets Title 24 Criteria for the State of California when ordered with Triple Glaze
option featuring LoE3 high-performance glass



Casement Windows CML or CMR				Thermal Performance					Structural Performance
Glazing				Grids	U Factor	SHGC	VT	CR <small>Condensation Resistance</small>	
Triple	3 mm LoE3	3 mm Clear	3 mm LoE3	None	0.32	.17	.31	CR 45	CW-PG30 Size tested 70x60"
				3/4-5/8"		.16	.28		
				1"		.14	.25		
Dual	6.35 mm Lami	3 mm LoE3		None	0.41	.19	.42	CR 43	
				3/4-5/8"		.18	.38		
				>1"		.16	.34		
Dual	3 mm LoE3	3 mm Clear		None	0.42	.27	.43	CR 43	
				3/4-5/8"		.25	.39		
				>1"		.23	.36		

As tested with LoE3 glass, Super Spacer and Argon gas filled combined with clear or laminated glass.

*Meets Title 24 Criteria for the State of California

THERMALLY BROKEN ALUMINUM AWNING WINDOWS

**SERIES
T-5105**

AL-CM-A-5105



Closed awning outside view



Open awning outside view



Closed awning inside view



Open awning inside view



THERMALLY BROKEN ALUMINUM HINGED CASEMENTS SERIES T-5105



Ecotech's oversized casement windows feature high-quality hinges manufactured in Germany by Dr. Hahn, exclusively distributed by ASSA ABLOY.

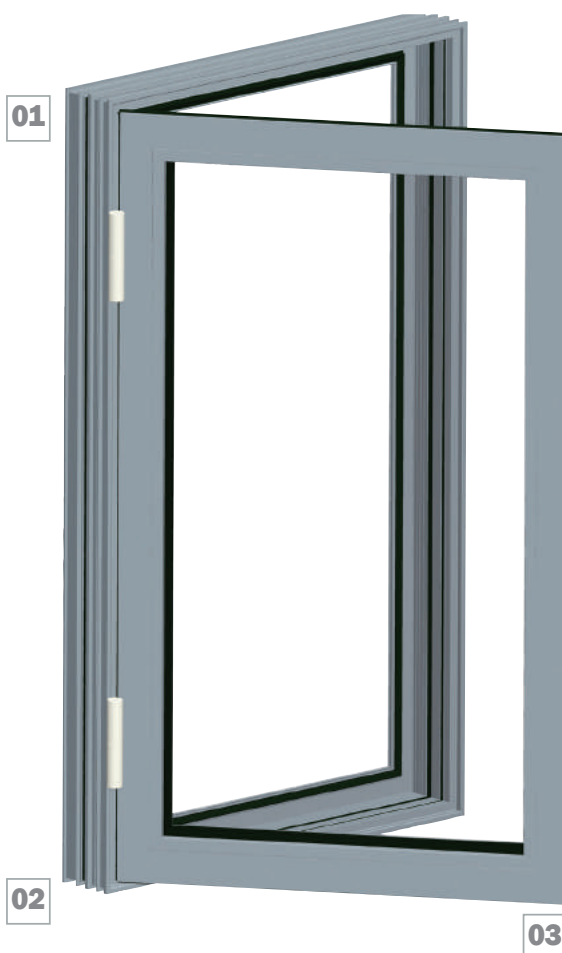
This top of the line hardware allows our hinged casements to hold up to 264 lbs and operate smoothly without compromising the stability of the operating sash. Made of extruded aluminum, which is well suited to absorb both pressure and tensile forces. The 12 mm thick bolt is made from steel and withstands any load. High comfort in a beautifully shaped design combines safety and durability.



www.dr-hahn.eu/en-gb/



AL-CM-5105



Casement Features at a glance

- 01** Miter cut frame and sash solid construction
- 02** Heavy-duty aluminum frame and sash
- 03** Low profile operator and lock matching frame color

THERMALLY BROKEN ALUMINUM HINGED CASEMENTS SERIES T-5105

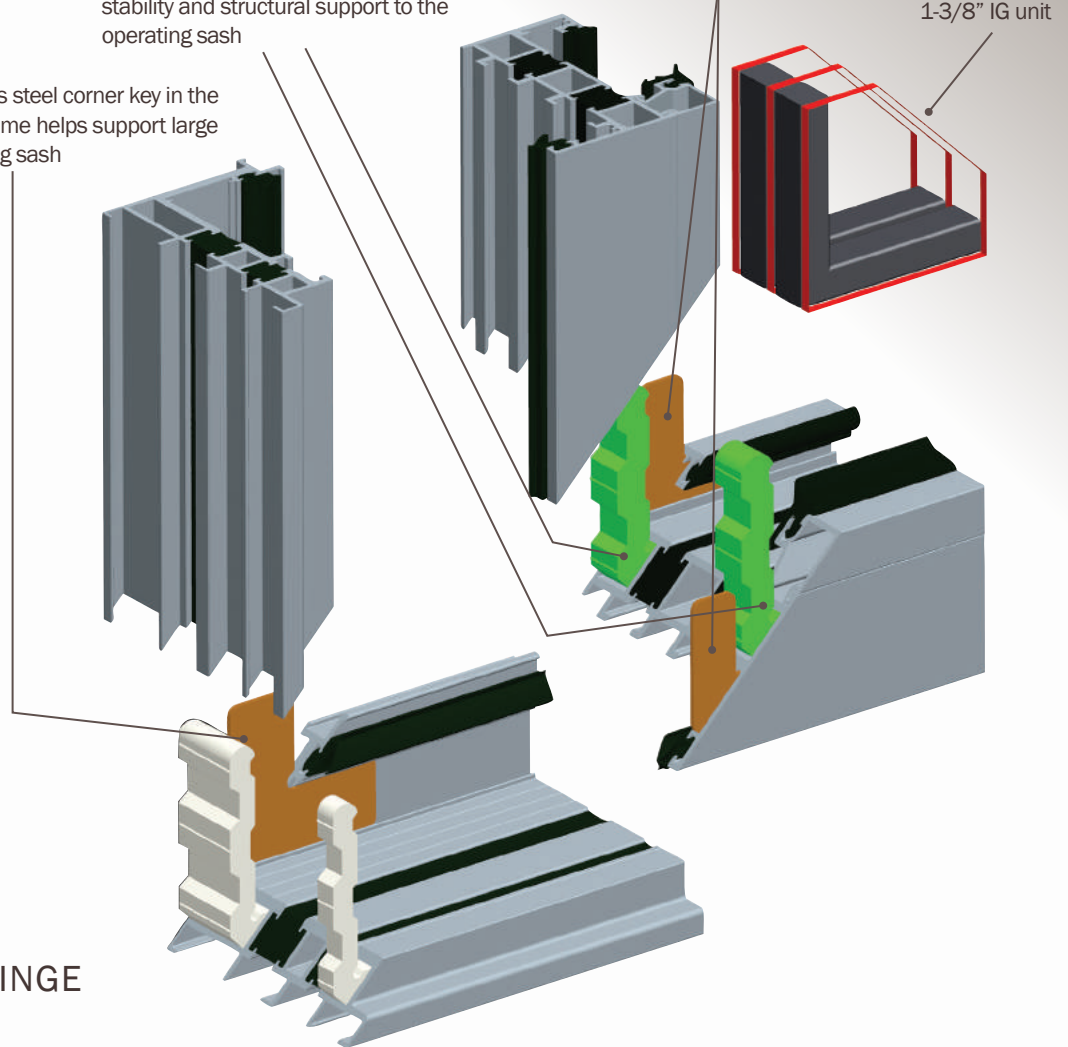
HINGED CASEMENT AL-CM-5105 CORNER CONSTRUCTION

Stainless steel corner key in the main-frame helps support large operating sash

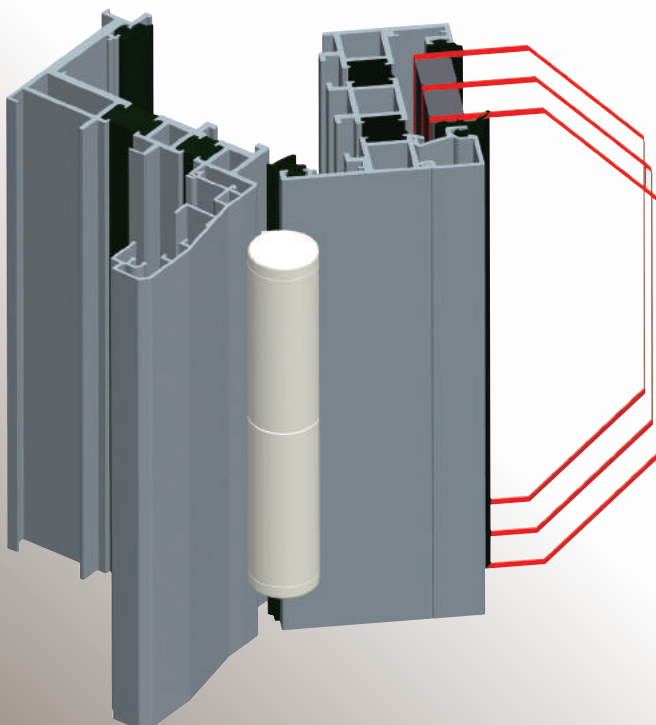
Aluminum reinforcement provides stability and structural support to the operating sash

Stainless steel corner key in operating sash helps support IG's with the heavier glass packages

1-3/8" IG unit



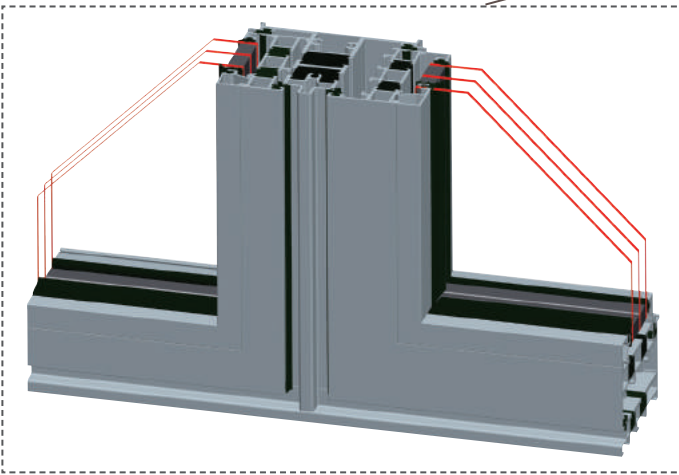
OPEN CASEMENT AT HINGE



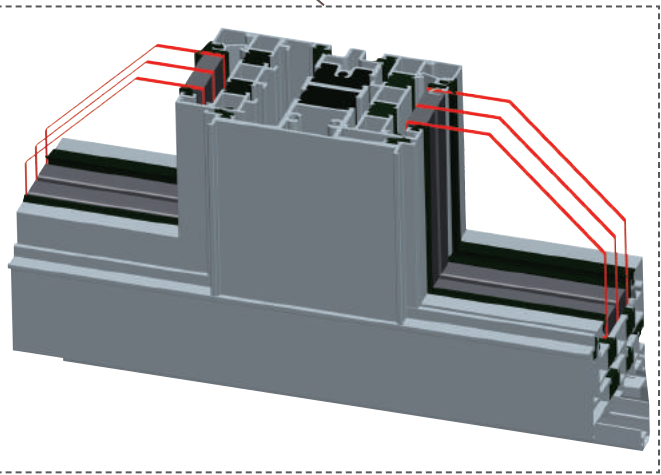
THERMALLY BROKEN ALUMINUM
CASEMENT PICTURE WINDOW SERIES T-5105



Casement-picture window joint outside view

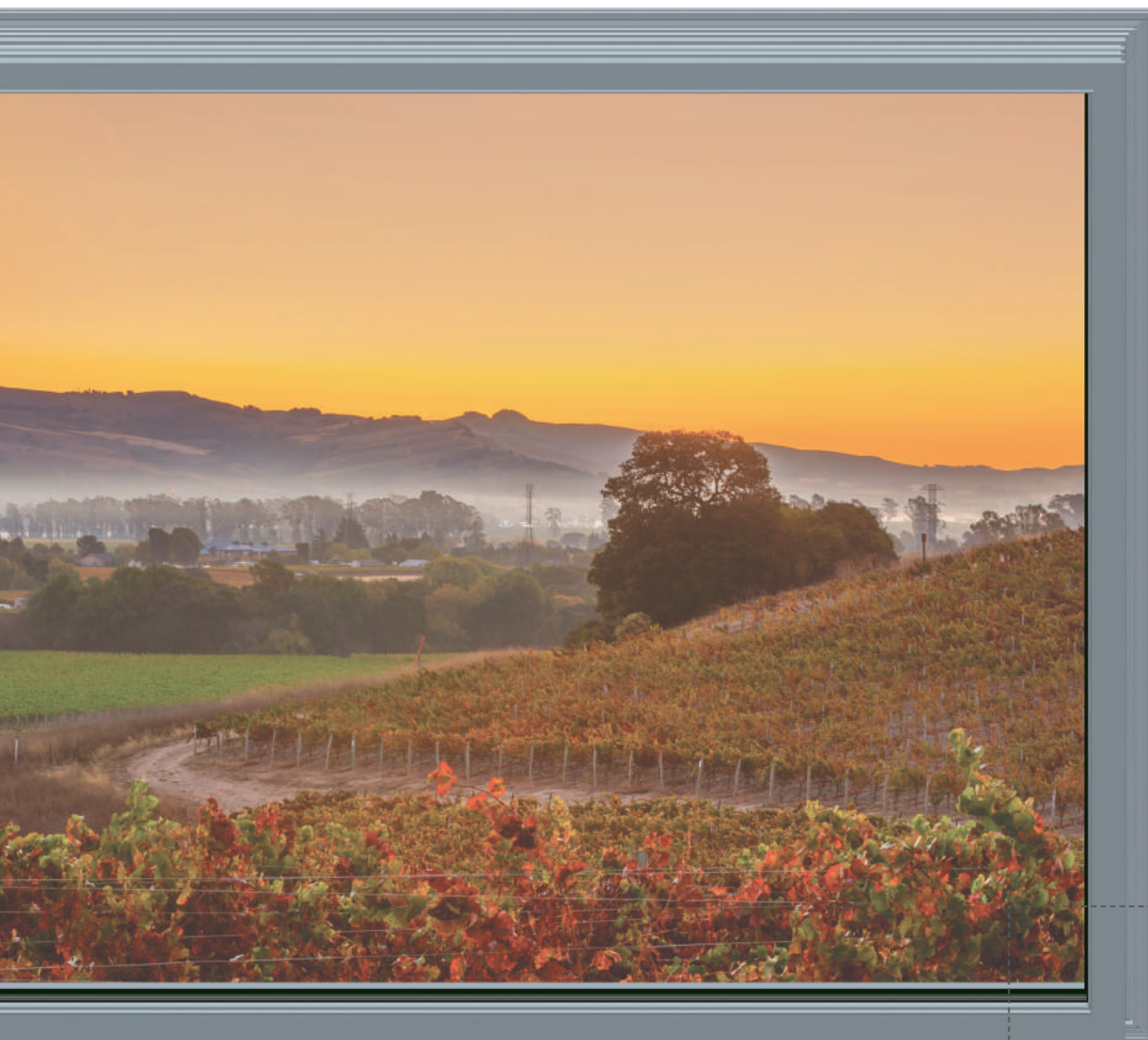


Casement-picture window joint inside view



THERMALLY BROKEN ALUMINUM CASEMENT PICTURE WINDOW SERIES T-5105

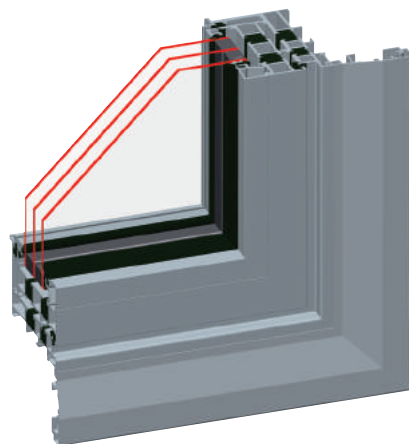
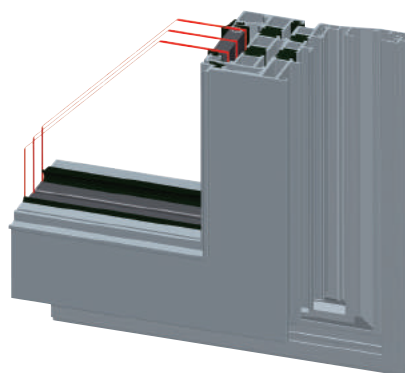
Casement-picture window combination units feature casement mainframe for a uniform look and outstanding support



Max 140"*
Max 172"*

Picture window corner
outside view,
retrofit frame

Picture window
corner inside view



For larger sizes and high-rise installation
job-site assembly may be required, contact
your Sales Representative for lead time
and shipping arrangements

*Maximum sizes require Tempered glass

THERMALLY BROKEN ALUMINUM CASEMENT-AWNING-PICTURE COMBO UNIT SERIES T-5105

These functional combination units feature
Casement mainframe for a uniform look and outstanding support

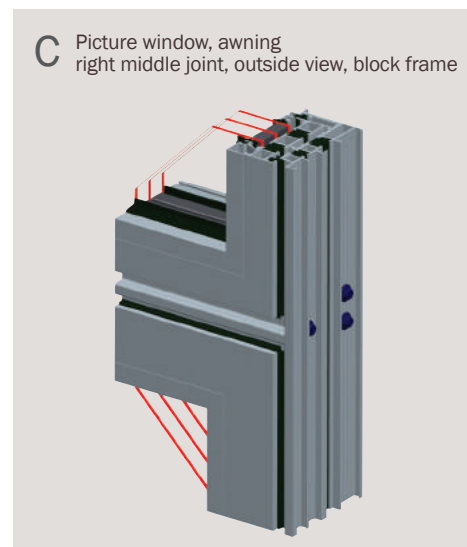
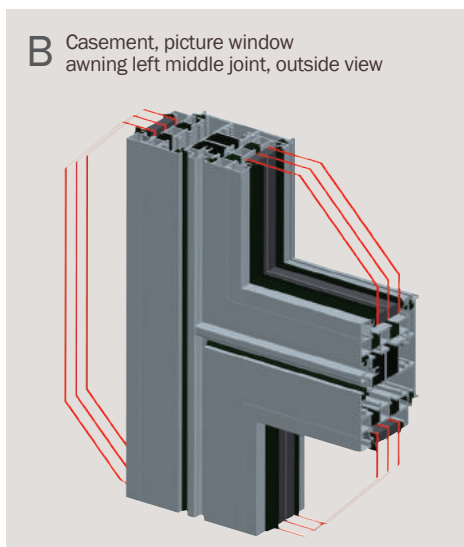
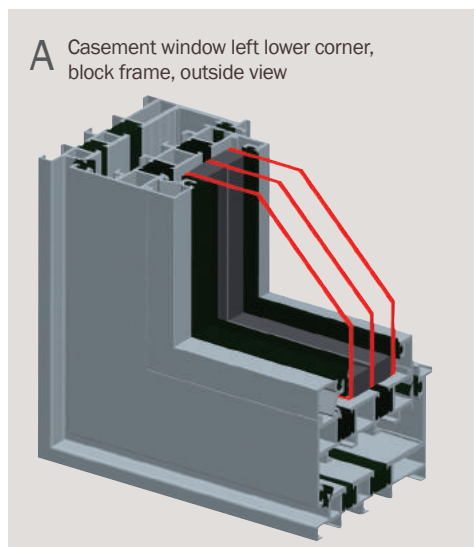
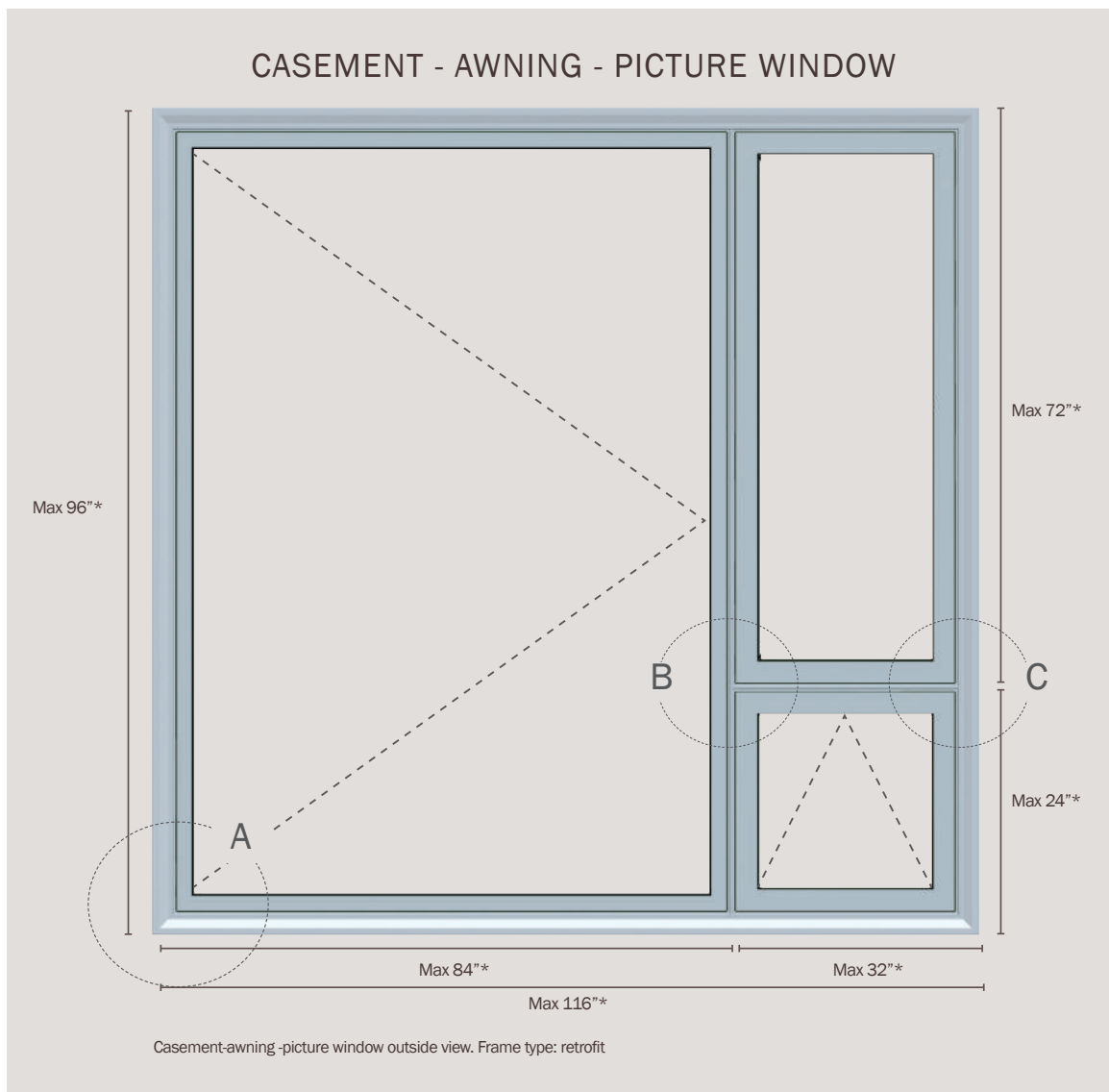


FEATURES

- Available in all frame types, Retrofit, Block, and Nail-on
- Maximum overall width 116"
- Maximum overall height 96"
- Available with Duralite or Super Spacer
- Dual glazed or triple glazed with Argon gas fill and LoE3 glass
- At largest sizes, tempered glass is required

*Maximum sizes require Tempered glass.
For larger sizes and high-rise installation, contact
your Sales Representative for lead time and shipping
arrangements

THERMALLY BROKEN ALUMINUM CASEMENT-AWNING-PICTURE COMBO UNIT SERIES T-5105



*Maximum sizes require Tempered glass.

For larger sizes and high-rise installation, contact your Sales Representative for lead time and shipping arrangements

THERMALLY BROKEN ALUMINUM CASEMENT WINDOWS HARDWARE

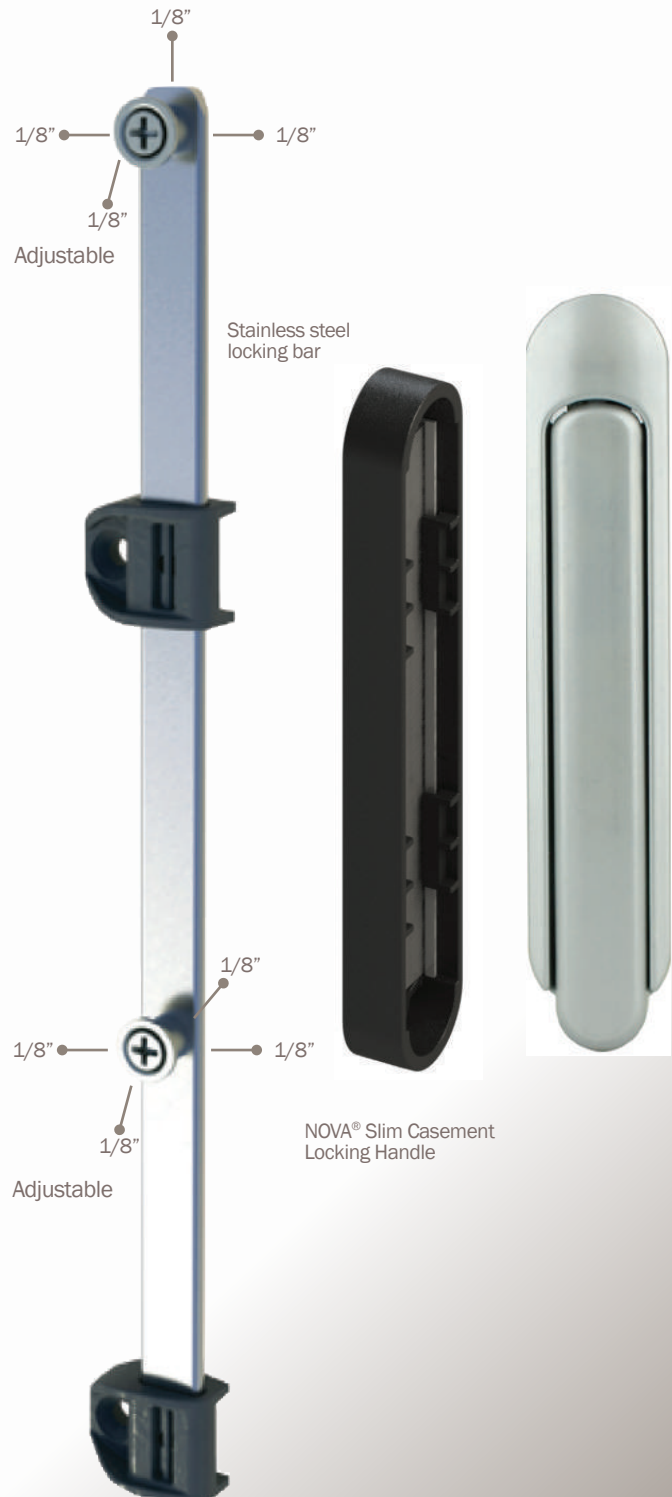
CAREFULLY SELECTED, HIGH-PERFORMANCE HARDWARE AND PARTS

NOVA® by ASSA ABLOY Multi-point locking system

An industry first in casement window hardware with German design and engineering, the NOVA® multi-point locking solution from ASSA ABLOY with a stainless steel locking bar provides high corrosion resistance, delivering the perfect balance of form and function.

Locking System Features

- Adjustable mushroom-head roller pins ensure smooth operation
- Allows to open sash to a full 90° for precise adjustment
- 1/8" adjustment provides maximum seal compression
- High-strength all stainless steel locking bar design
- Load capacity up to 500 lbs per locking point for maximum DP ratings



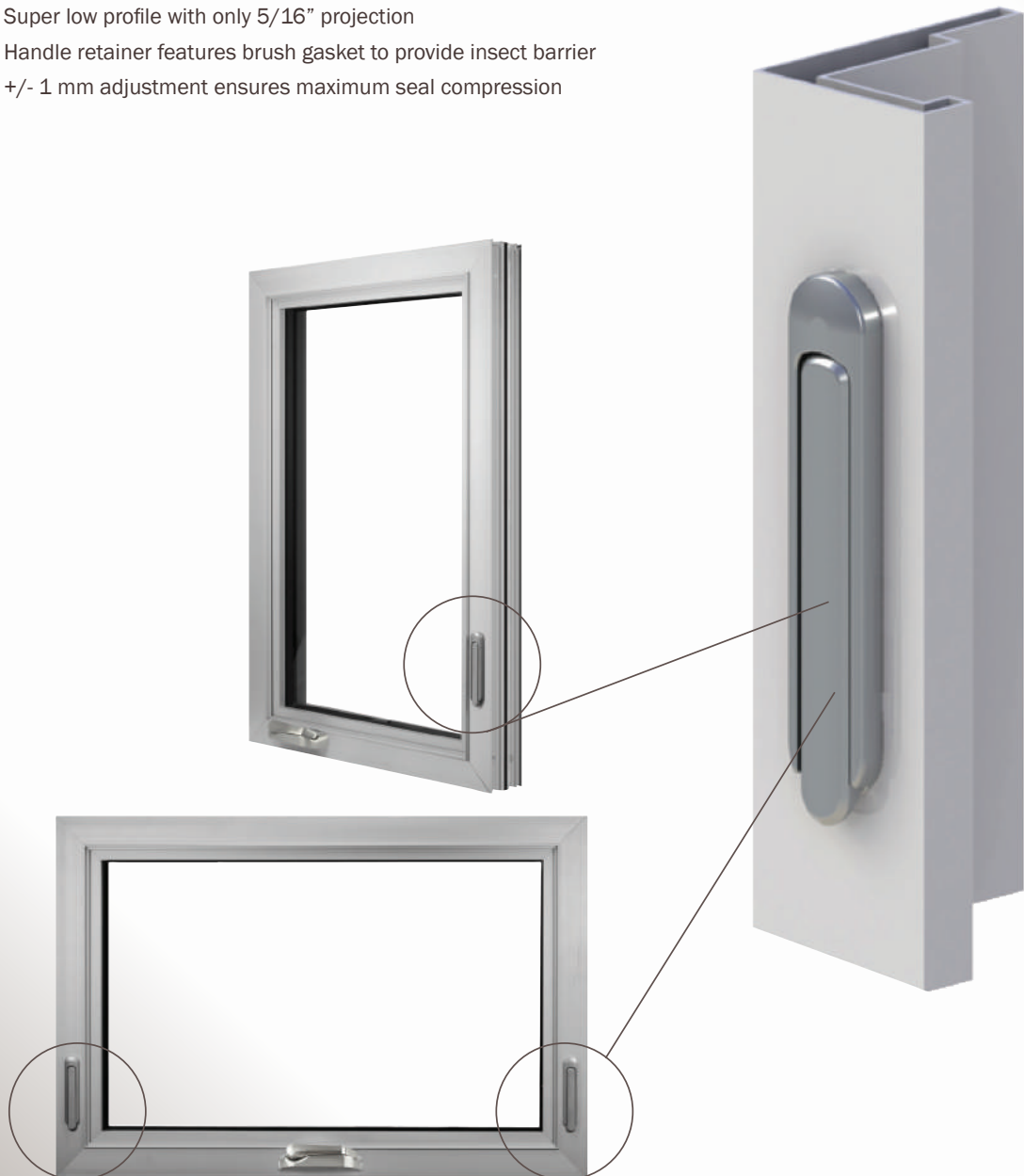
THERMALLY BROKEN ALUMINUM CASEMENT WINDOWS HARDWARE

NOVA® Slim Casement Locking Handle by ASSA ABLOY

A revolutionary new development in casement window hardware, the NOVA® Slim casement locking handle is a super low-profile design, eliminating interference with blinds and window treatments. This sleek, sophisticated solution is the first of its kind applying an aesthetic flush mount design; and works in conjunction with the NOVA® multi-point casement locking solution, engineered to optimize security, ease of operation and flexibility through its innovative features.

NOVA® Slim Casement Locking Handle Features

- Super low profile with only 5/16" projection
- Handle retainer features brush gasket to provide insect barrier
- +/- 1 mm adjustment ensures maximum seal compression



THERMALLY BROKEN ALUMINUM CASEMENT WINDOWS HARDWARE



Hinges allow sash to open to a full 90 degrees for full ventilation and convenience

Securistyle 4-Bar Hinges by ASSA ABLOY

These corrosion resistant, all stainless steel 4-bar hinges for casement and awning applications feature an asymmetrical design to maximize weather sealing as well as high gust loading.

Securistyle 4-Bar Casement Hinges Features

- Asymmetric design maximizes weather sealing and negative pressure ratings
- Supports awning sashes up to 87" high and 264 lbs
- Supports casement sashes up to 33" wide and 103 lbs
- Egress versions available
- Composite slider eliminates metal on metal wear



THERMALLY BROKEN ALUMINUM CASEMENT WINDOWS HARDWARE

NOVA® by ASSA ABLOY Casement operators

NOVA® Casement and Awning operators are expertly engineered to deliver superior performance and unprecedented flexibility. The series features a patented two-directional fixing design for superior strength and stability. The NOVA® operator and hinge combination is designed to provide ideal geometry for high-performance and pleasing aesthetics.

Casement Operator Features

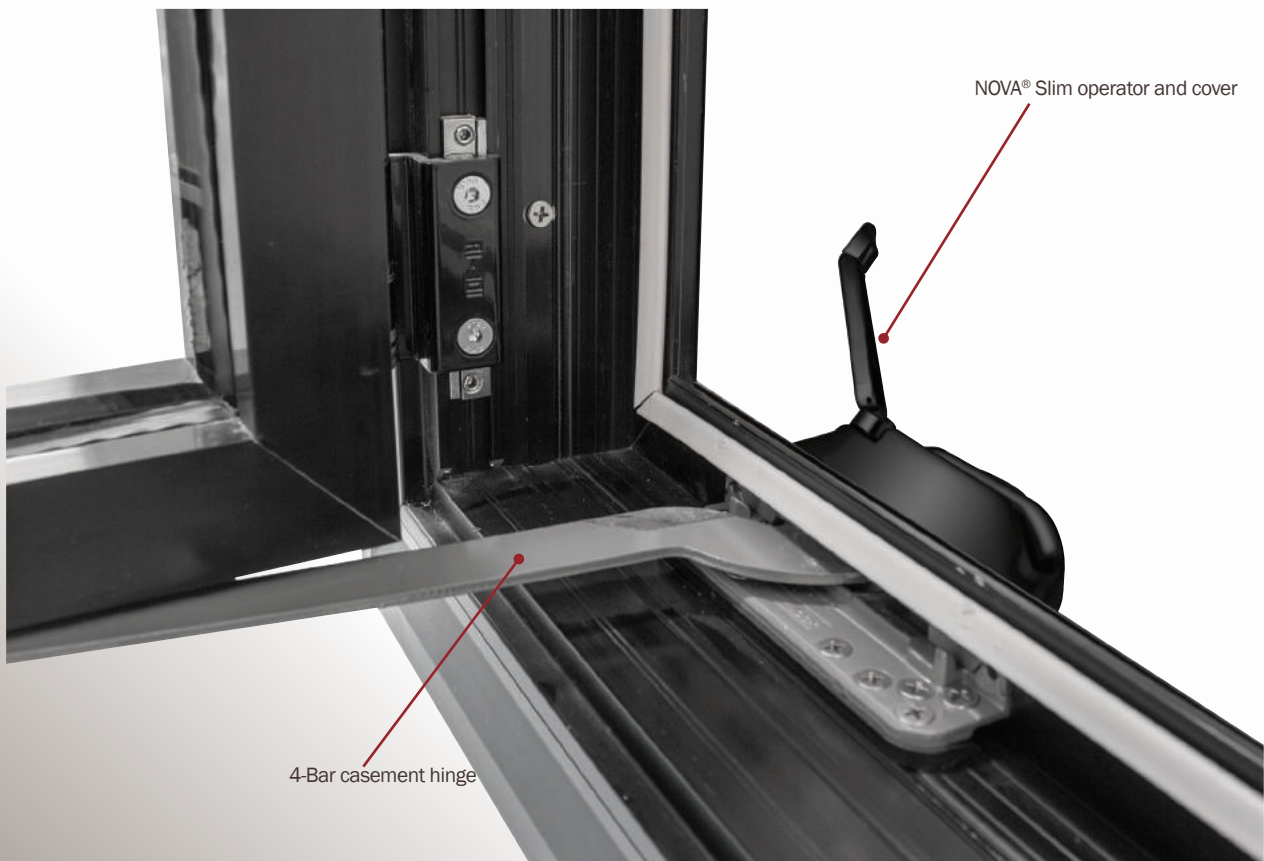
- Optimized gear ratio for smooth operation of large sashes
- Patented two-directional fixing design and pre-fitted foam gasket for maximum air/water performance
- Multiple fixing locations for greater mounting flexibility



Black operator cover matches
Bronze Anodized color
Casements and Awnings



Silver operator cover
matches Clear Anodized color
Casements and Awnings



NOVA® Slim operator and cover

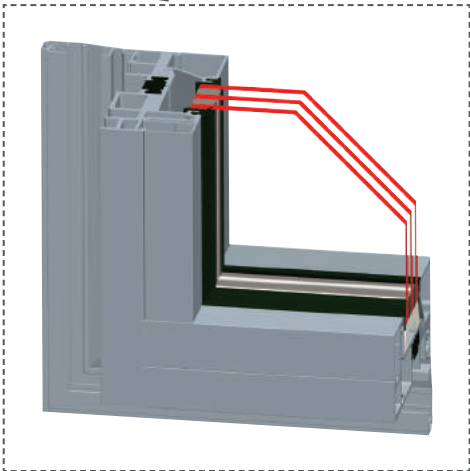
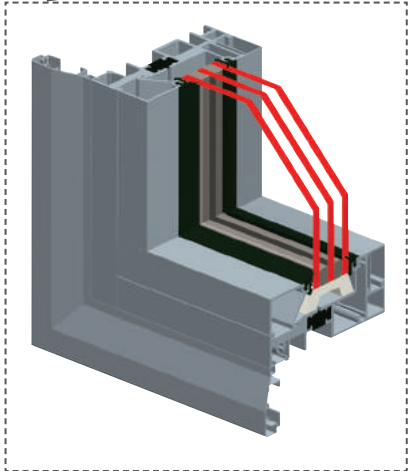
4-Bar casement hinge

THERMALLY BROKEN ALUMINUM
JUMBO PICTURE WINDOWS SERIES T-5106

Sizes up to: 146 x 84"

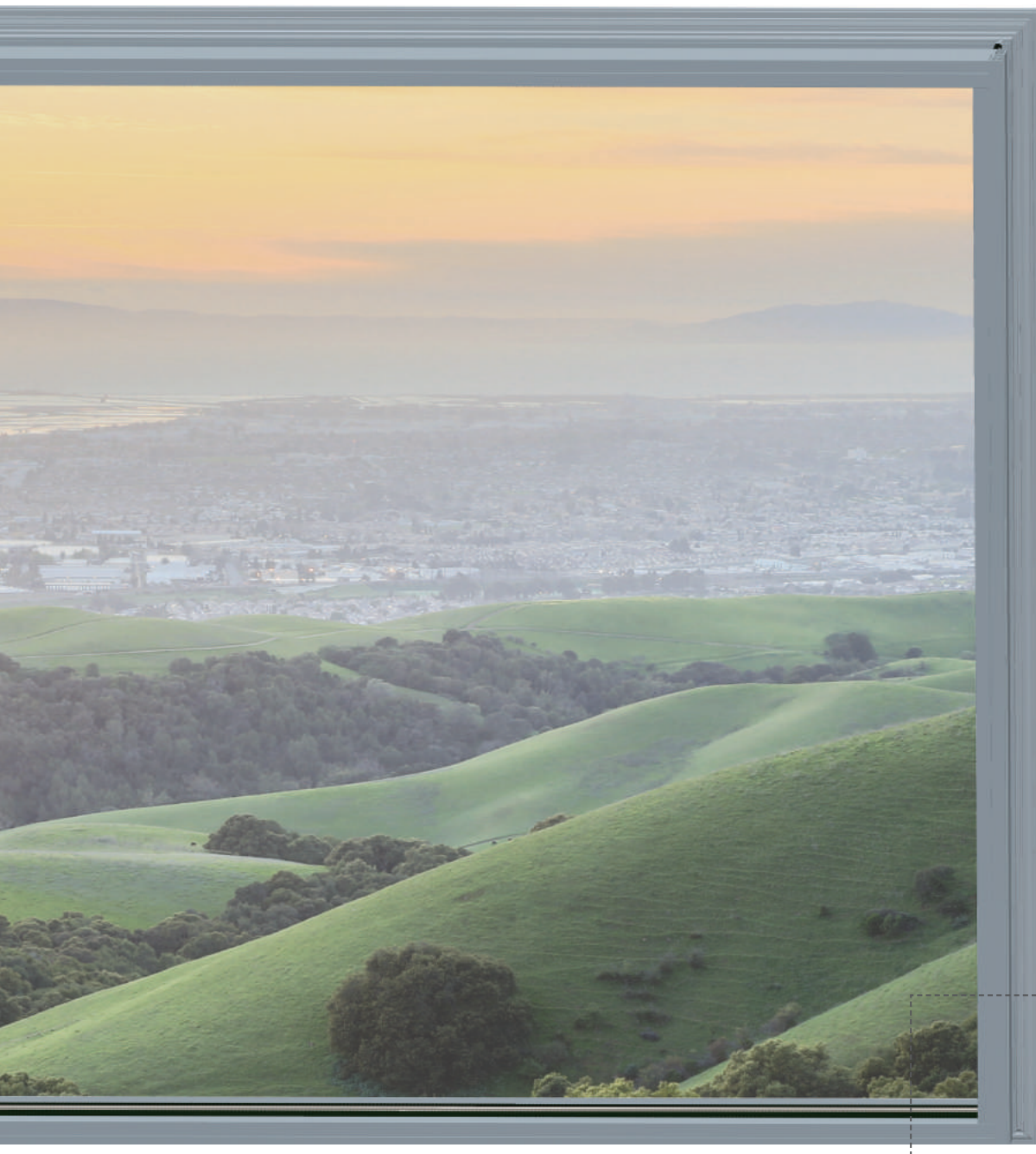


Mechanically joined
corner, outside view



Maximum width 146"*

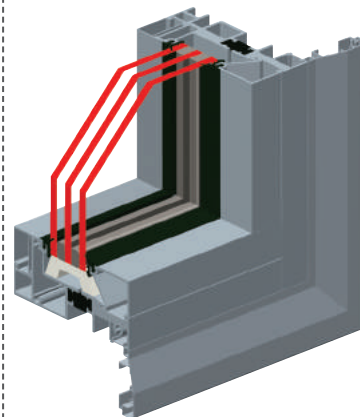
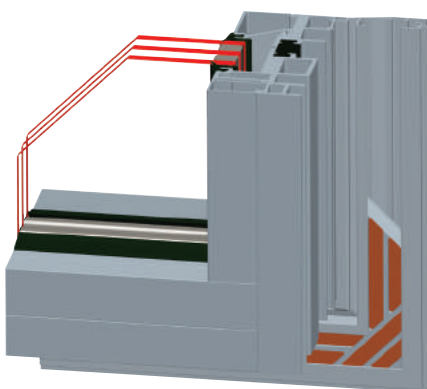
THERMALLY BROKEN ALUMINUM JUMBO PICTURE WINDOWS SERIES T-5106



Maximum height 84"*

Mechanically joined
corner, outside view

Mechanically joined
corner, pre-installation
inside view

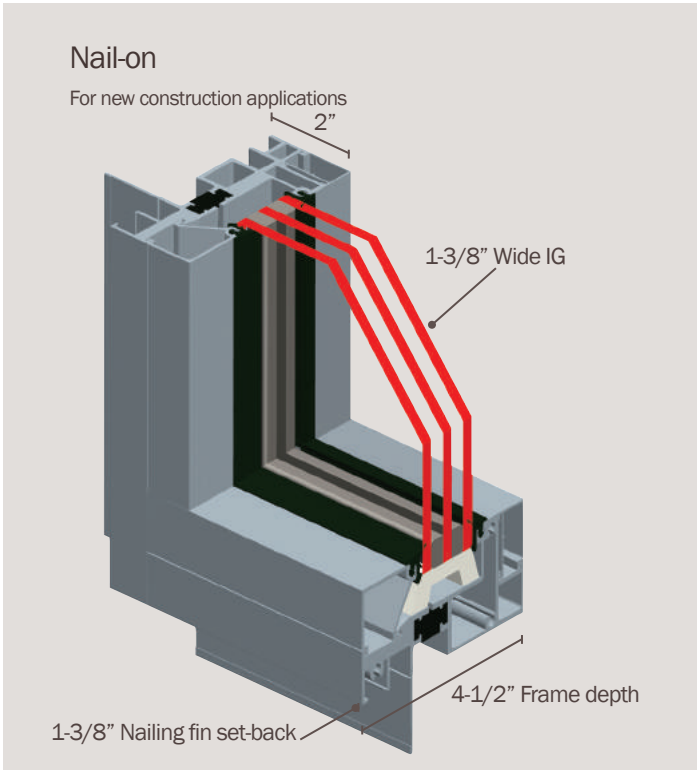
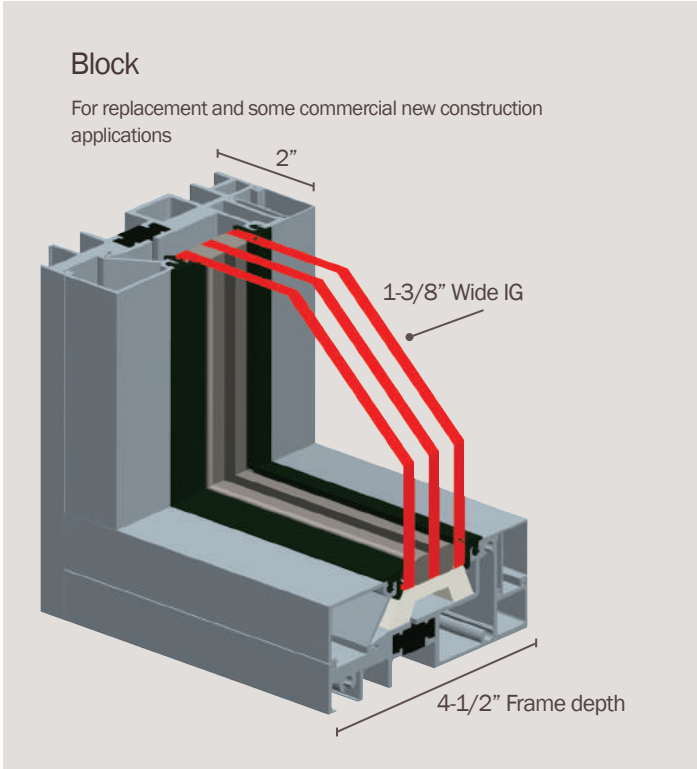
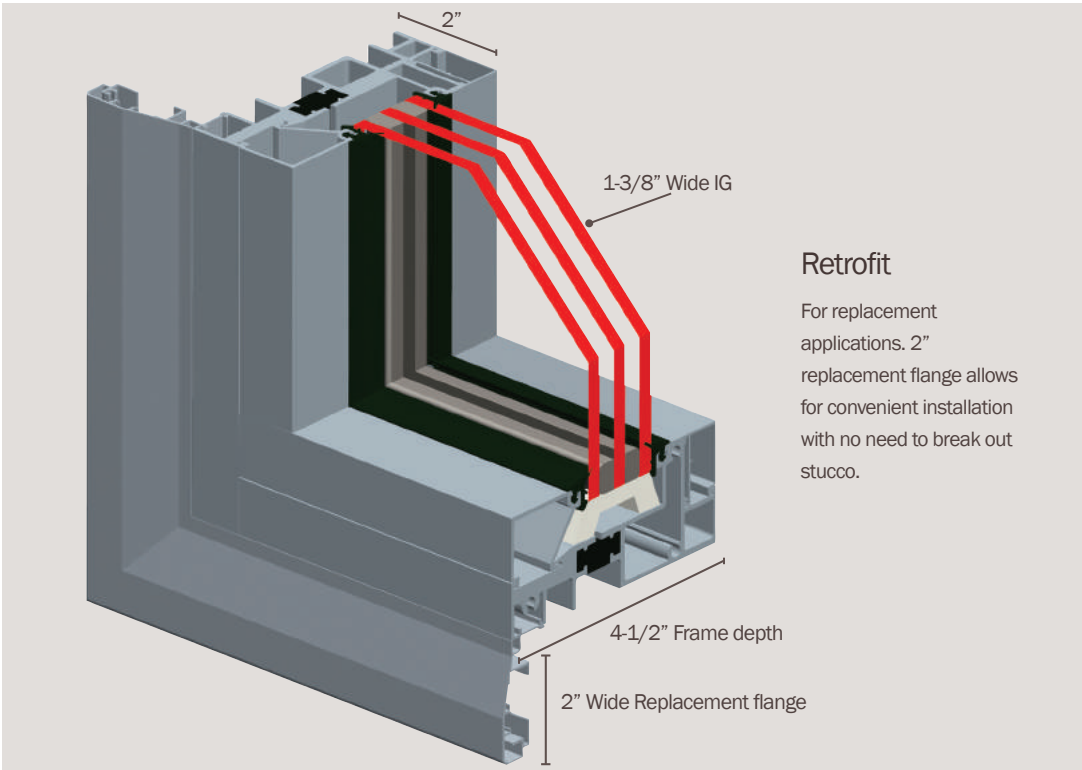


*Maximum sizes require Tempered glass

For larger sizes and high-rise installation, contact your
Sales Representative for lead time and shipping arrangements

THERMALLY BROKEN ALUMINUM JUMBO PICTURE WINDOWS SERIES T-5106

JUMBO PICTURE WINDOWS PROFILE CORNERS



STANDARD COLORS

Standard extruded vinyl colors are Bronze Anodized and Clear Anodized with matching hardware.



Bronze Anodized

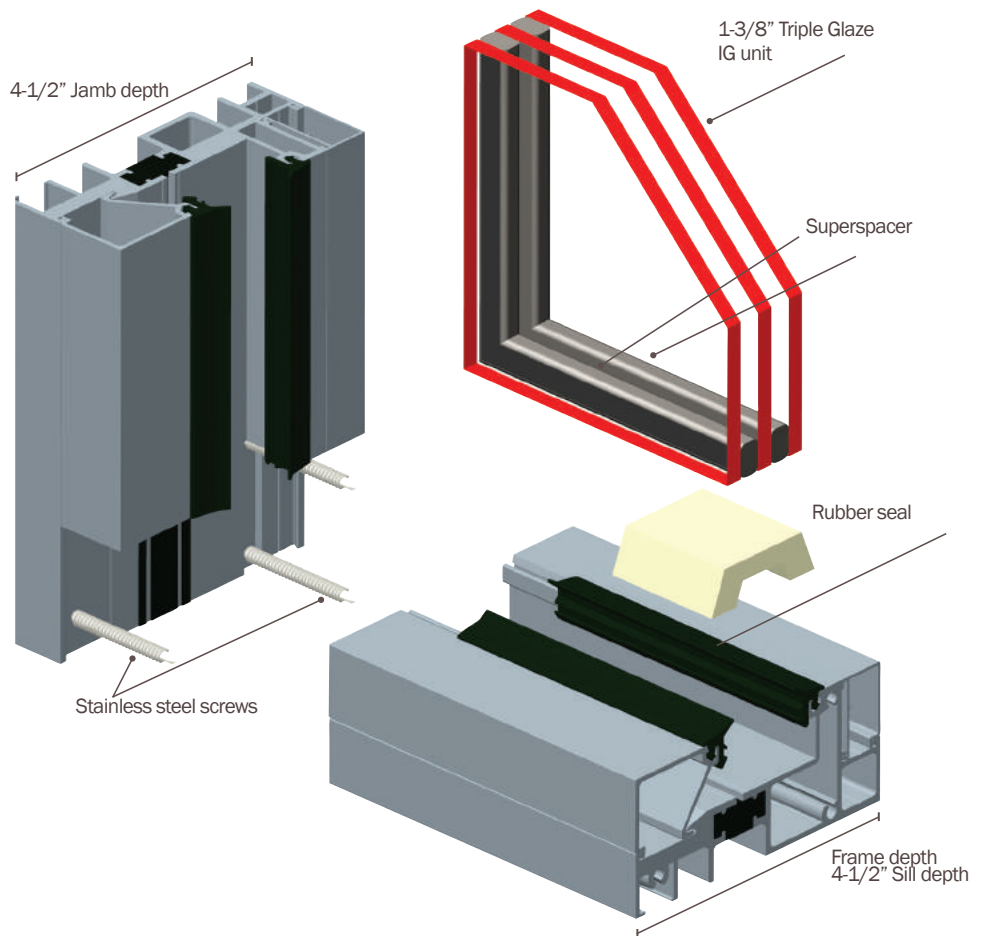


Clear Anodized

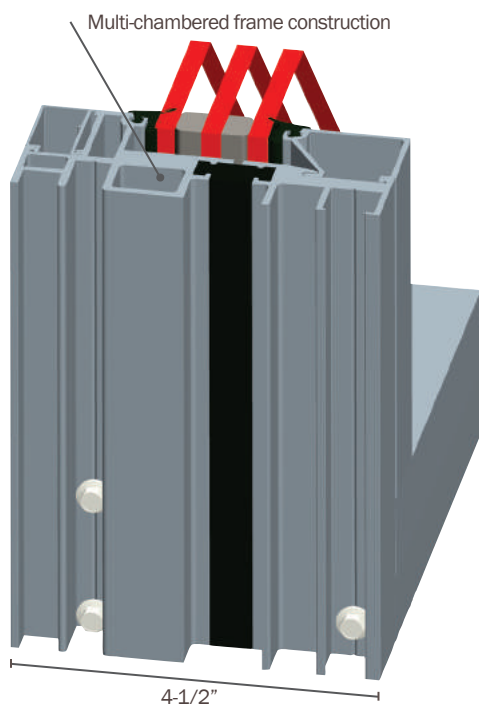
*Maximum sizes require Tempered glass
For larger sizes and high-rise installation, contact your Sales Representative for lead time and shipping arrangements

THERMALLY BROKEN ALUMINUM JUMBO PICTURE WINDOWS SERIES T-5106

JUMBO PICTURE WINDOW FRAME CONSTRUCTION DETAIL



Mechanically joined corner
featuring stainless steel screws



FEATURES & BENEFITS

Take a moment to learn about the outstanding features and benefits of our Thermally Broken Aluminum Jumbo Picture Windows, which carry a Lifetime Warranty for your peace of mind.

Durability and ease of use

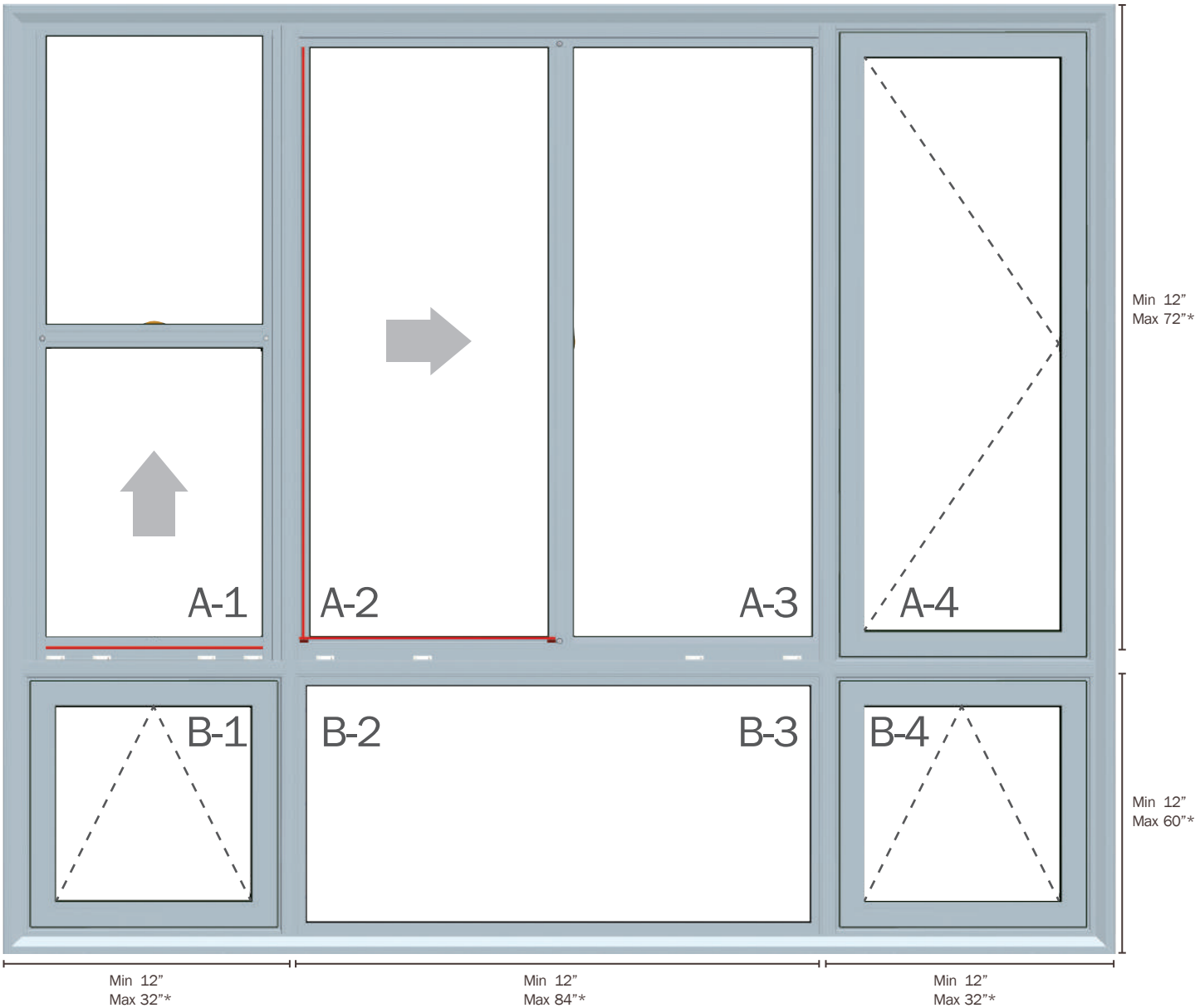
- Heavy duty extruded aluminum for structural strength and durability
- 20 mil anodizing thickness provides long lasting finish and consistent color
- Frame is mechanically fastened for additional support, and structural integrity
- Heavy-duty replacement flange is 2" wide
- 1-3/8" nailing fin setback
- Optional Super spacer with a secondary butyl seal provides a superior seal

Enhanced energy efficiency

- Beveled, multi-chambered extruded aluminum featuring thermal breaks improves thermal performance and provides an elegant appearance
- 4-1/2" frame depth engineered to host heavier insulated glass units of specialty glass packages
- 1-3/8" insulated glass unit featuring LoE3 glass
- Optional Duralite spacer enhances thermal performance of glass components
- Optional triple pane glass for improved thermal performance
- Argon gas filled glass chambers for increased energy savings

THERMALLY BROKEN ALUMINUM LARGE COMBINATION UNITS

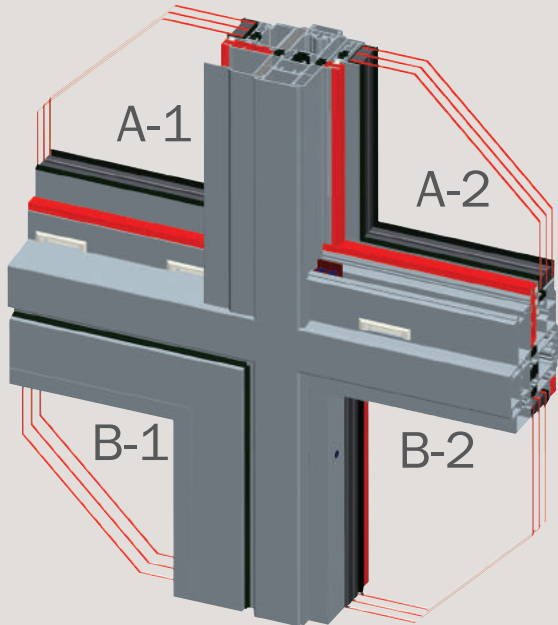
Large combination unit outside view



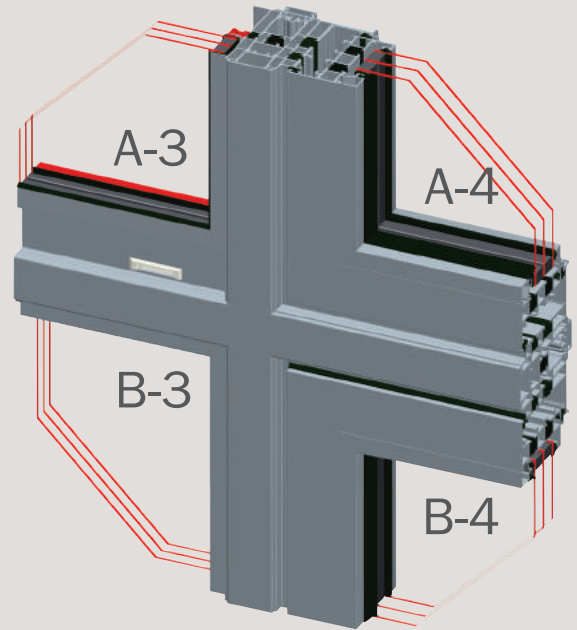
*Maximum sizes require Tempered glass.
For larger sizes and high-rise installation, contact your Sales Representative for lead time and shipping arrangements

THERMALLY BROKEN ALUMINUM TILT IN SINGLE HUNG - SLIDER - CASEMENT - AWNING - PICTURE - AWNING

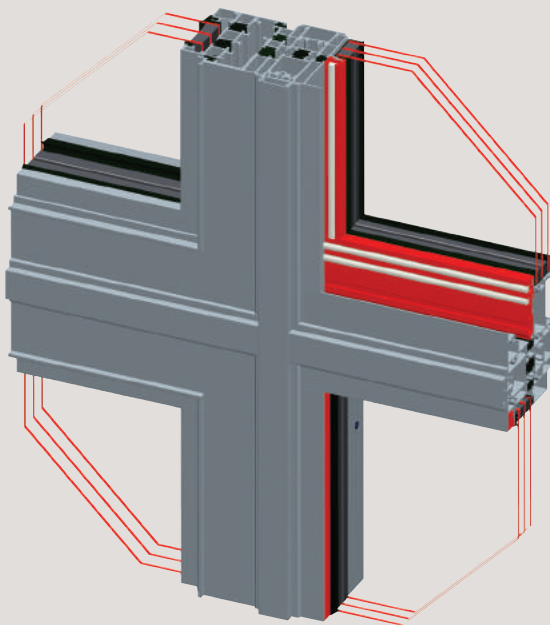
Outside view:
Tilt-in single hung, slider, awning, picture join



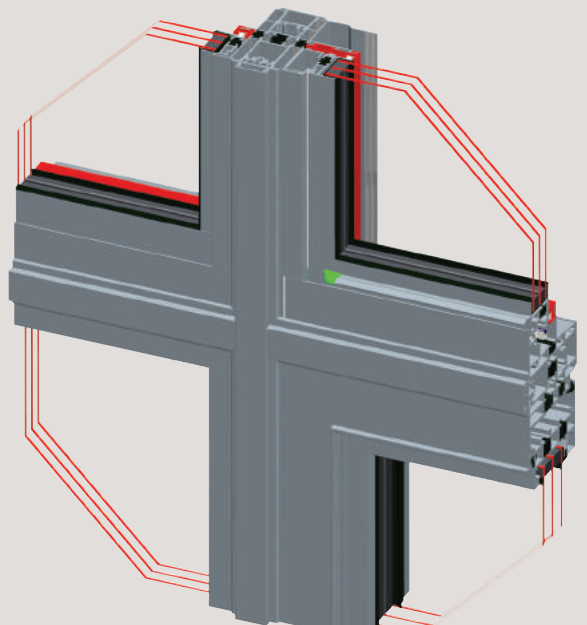
Outside view:
Tilt-in single hung, slider, awning, picture join



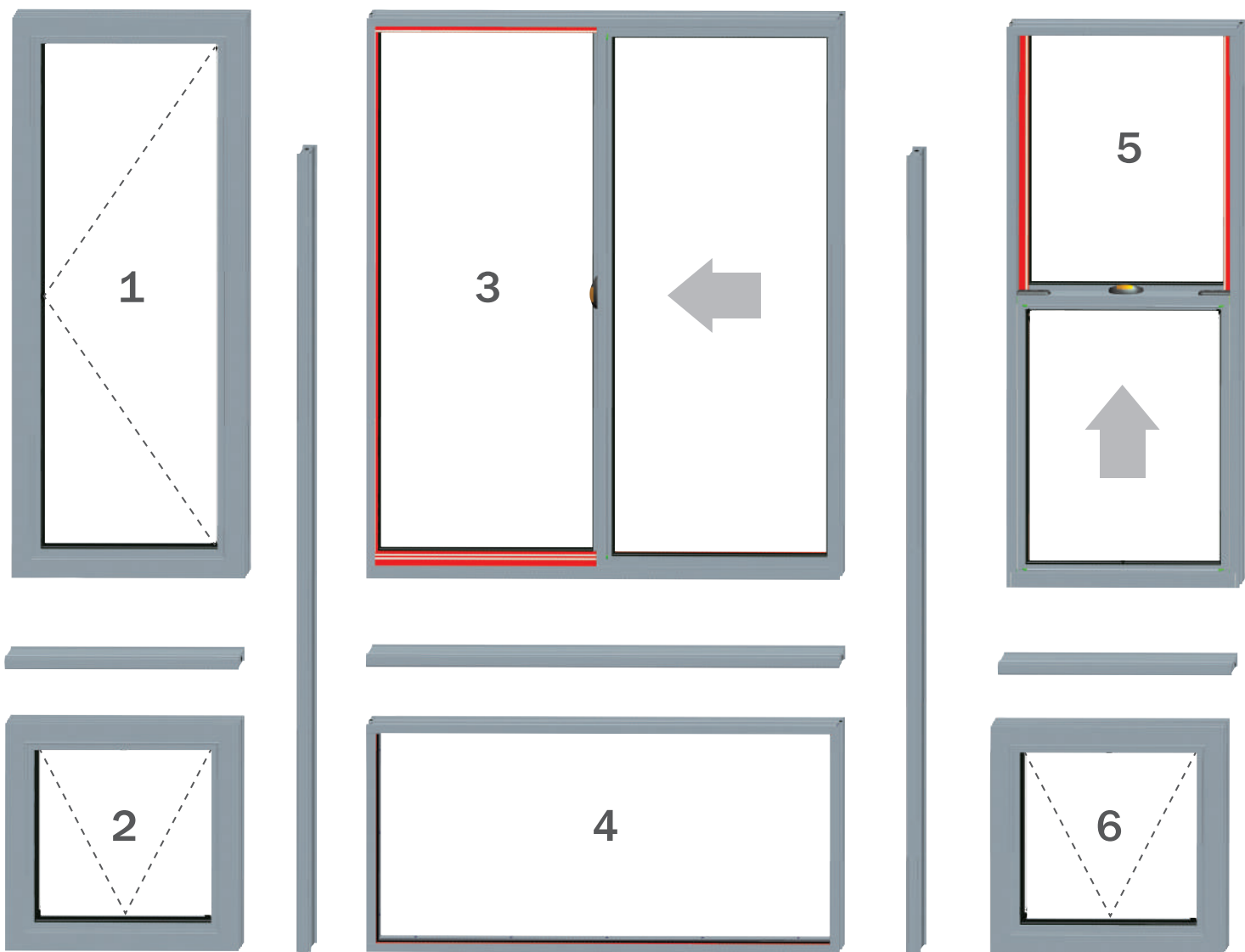
Inside view:
Slider, casement, picture window and awning join



Inside view:
Slider, casement, picture window and awning join

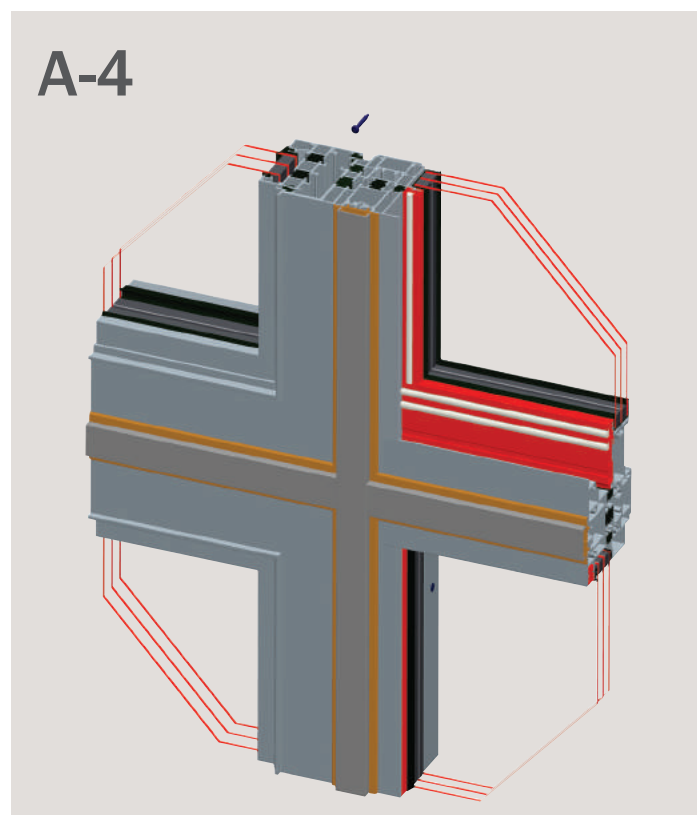
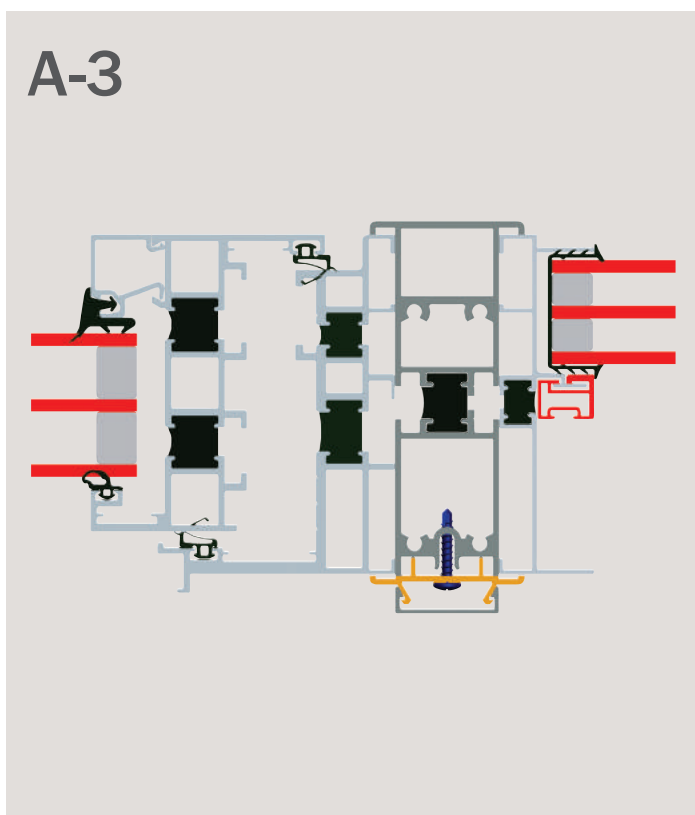
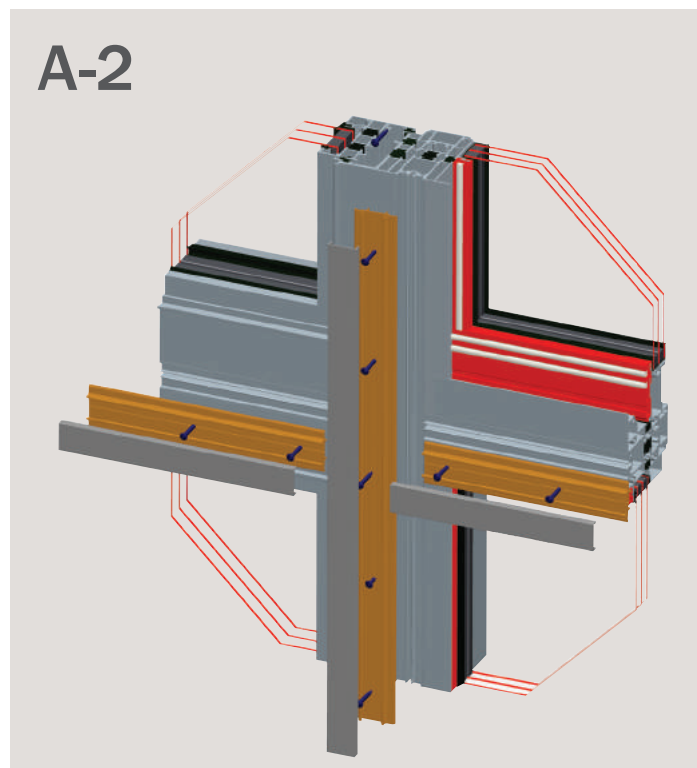
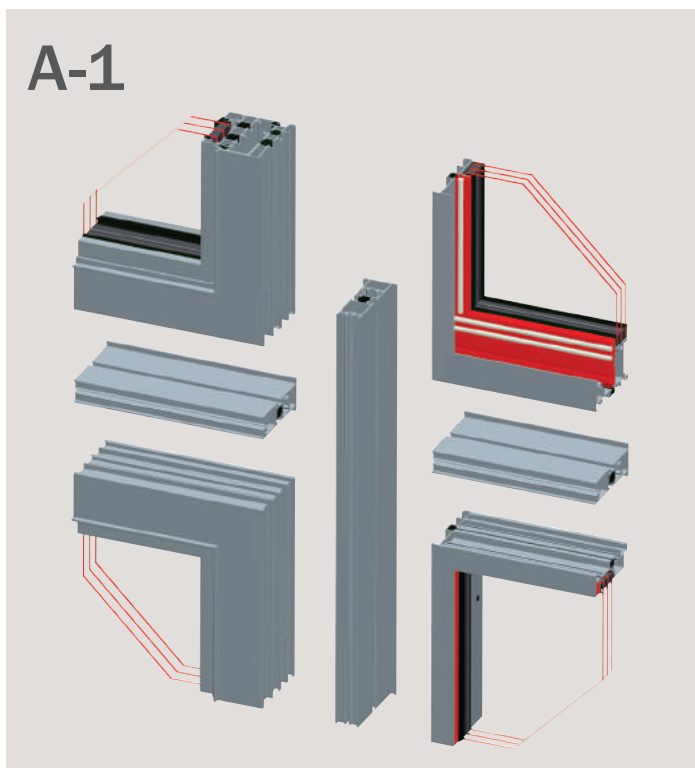


THERMALLY BROKEN ALUMINUM
LARGE COMBINATION UNITS JOB-SITE ASSEMBLY DIAGRAM



THERMALLY BROKEN ALUMINUM TILT IN SINGLE HUNG - SLIDER - CASEMENT - AWNING - PICTURE - AWNING

Large combination unit job-site assembly diagram





THERMALLY BROKEN ALUMINUM