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Parts Illustration

Manufactured 2012 to Present

E-Series French Casement Window Unit Parts

Unit viewed from exterior.

Parts Illustration

Colors - Exterior

Note:
(*) Annodized Finishes

Colors/Species/Finishes - Interior

Species Interior Options

Pine

Mixed Grain Douglas Fir

Oak

Maple

Walnut

Alder

Hickory

Mahogany *

Vertical Grain Douglas Fir

Cherry

White Oak

Stained Interior Options

Clear Coat

Wheat

Autumn Oak

Golden Hickory

Honey

Cinnamon

Russet

Mocha

Espresso

Painted Interior Options

White

Birch Bark

Primed

Canvas

Sandtone

Terratone

Forest Green

Dark Bronze

Dove Gray

Prairie Grass

Red Rock

Cocoa Bean

Black

Anodized Silver †

Unit Sizes

Standard and Custom Window Sizes

Note:
E-Series French Casement Windows are available in standard sizes (see standard size charts, page 6). Replacement parts for some standard windows can be ordered using the numbers listed in this catalog. Many replacement parts for standard windows are made to order. These items are ordered using the Product ID found on the identification label and a description of the part needed. See Service Guide 9051877.
E-Series French Casement Windows are also available in custom sizes in 1/8″ increments between the smallest and the largest standard sizes. Most replacement parts for custom-sized windows are made to order and can be ordered with the Product ID found on the identification label and a description of the part needed. See Service Guide 9051877.

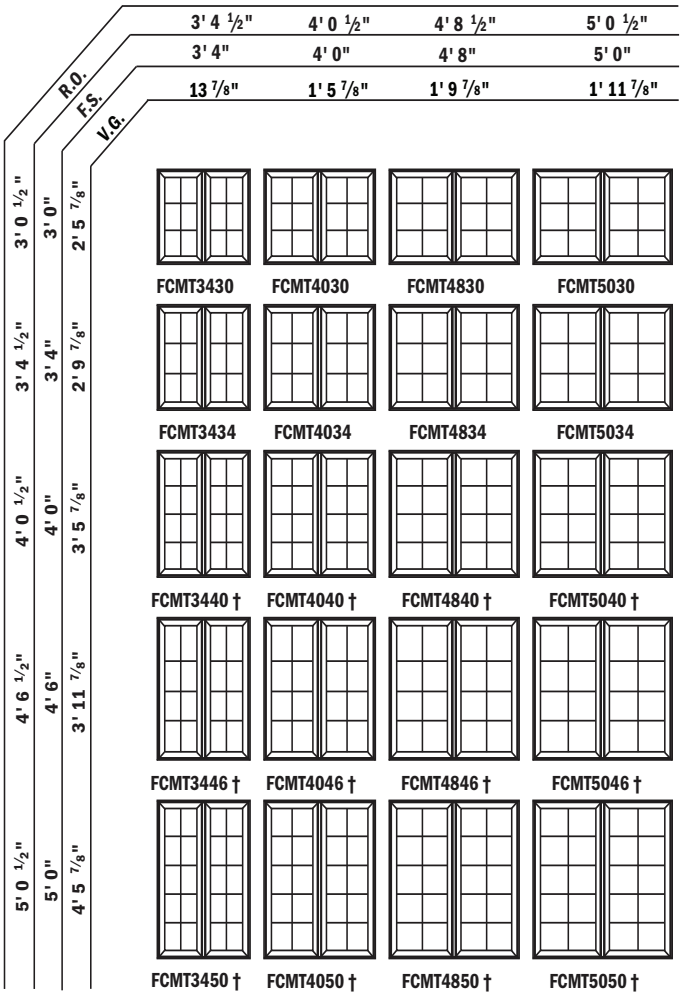
E-Series Product Label

Note:
Every E-Series French Casement Window will have an identification label **or** glass etching containing a unique Product ID. The Product ID on E-Series French Casement Windows will be located at the top of the window frame or etched into the glass. See Service Guide 9051877. The Product ID may be up to 14 digits long (excluding hyphens), depending on the age of the unit. Replacement parts will also get their own unique Product ID. When ordering replacement parts, providing the Product ID ensures that replacement parts match the specifications.

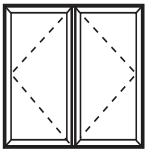
Unit Size Chart - Standard Windows

Note:
F.S. refers to overall outside-to-outside frame. R.O. refers to rough opening. V.G. refers to visible glass. See latest **Size Grid**.

French Casement Window Sizes



Vent Layout as Viewed From Exterior



Left Sash Opens First
(Standard Configuration)

NOTES

† These units meet or exceed the following dimensions: Clear Opening Area 5.7 sq. ft., Clear Opening Width 20", Clear Opening Height 24" and 44" maximum floor to sill height (with standard 6' 10 1/2" structural mull header height). Local codes may differ. Verify egress requirements with your local building code official

Piano hinges and step jamb are standard on all French casement units.

E-Series French Casement Standard Window Unit Sizes

Product History

Product History	
2022	White Oak introduced
2022	Stormwatch® (not shown in catalog) discontinued. See **Bulletin 80-21** for more detail.

Sash

Sash Size Table

Note:
Sash shown is Venting French Casement. Overall Sash is measured outside edge to outside edge of sash frame (does **not** include astragal).

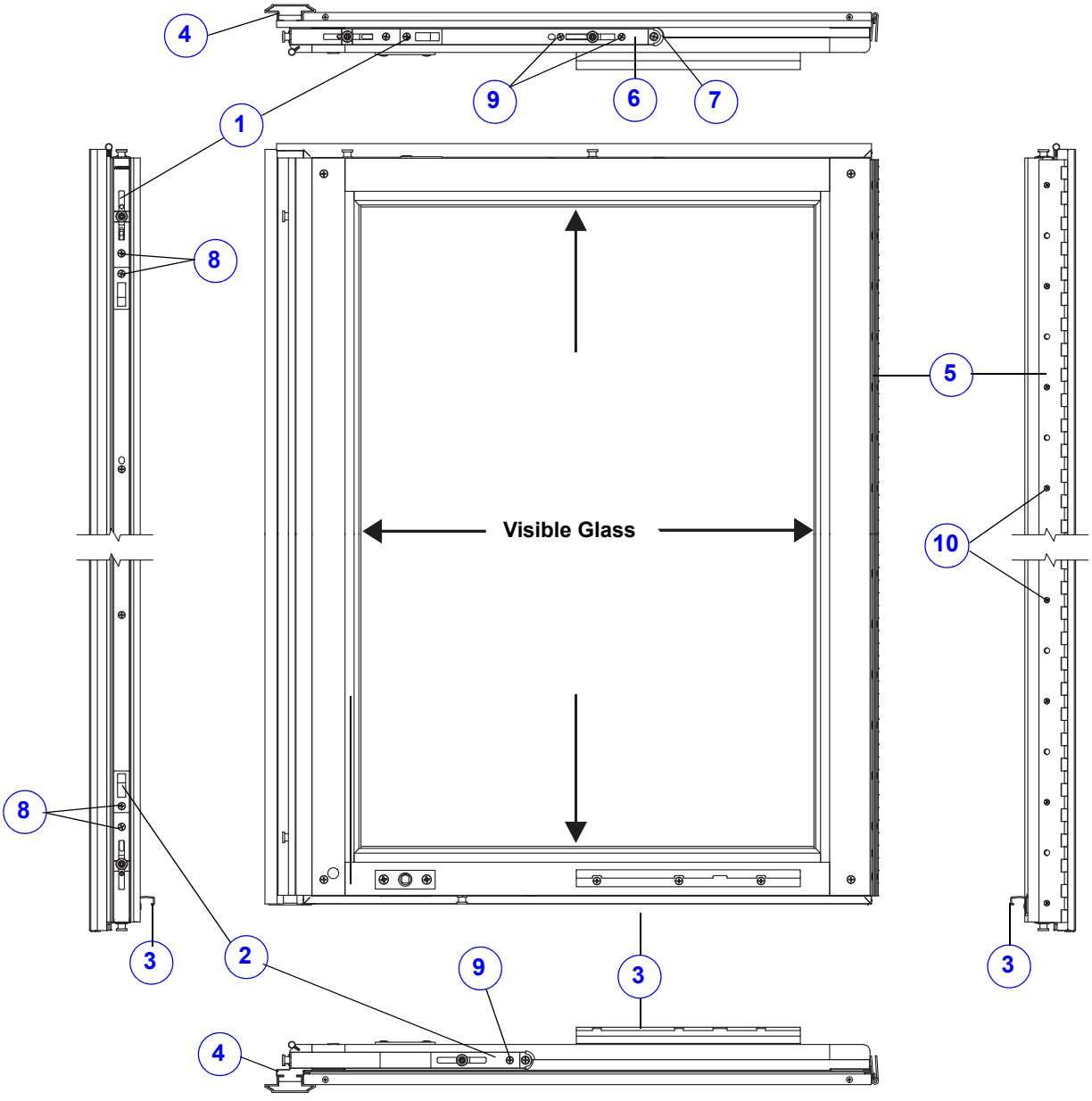
Sash Size Table

Unit No.		Sash Dimensions (w x h)	Visible Glass Dimensions (w x h)	Graphic
34	FCAX3430	18 1/2 × 34 1/2	13 7/8 × 29 7/8	
	FCAX3434	18 1/2 × 38 1/2	13 7/8 × 33 7/8	
	FCAX3440	18 1/2 × 46 1/2	13 7/8 × 41 7/8	
	FCAX3446	18 1/2 × 52 1/2	13 7/8 × 47 7/8	
	FCAX3450	18 1/2 × 58 1/2	13 7/8 × 53 7/8	
40	FCAX4030	22 1/2 × 34 1/2	17 7/8 × 29 7/8	
	FCAX4034	22 1/2 × 38 1/2	17 7/8 × 33 7/8	
	FCAX4040	22 1/2 × 46 1/2	17 7/8 × 41 7/8	
	FCAX4046	22 1/2 × 52 1/2	17 7/8 × 47 7/8	
	FCAX4050	22 1/2 × 58 1/2	17 7/8 × 53 7/8	
48	FCAX4830	26 1/2 × 34 1/2	21 7/8 × 29 7/8	
	FCAX4834	26 1/2 × 38 1/2	21 7/8 × 33 7/8	
	FCAX4840	26 1/2 × 46 1/2	21 7/8 × 41 7/8	
	FCAX4846	26 1/2 × 52 1/2	21 7/8 × 47 7/8	
	FCAX4850	26 1/2 × 58 1/2	21 7/8 × 53 7/8	
50	FCAX5030	28 1/2 × 34 1/2	23 7/8 × 29 7/8	
	FCAX5034	28 1/2 × 38 1/2	23 7/8 × 33 7/8	
	FCAX5040	28 1/2 × 46 1/2	23 7/8 × 41 7/8	
	FCAX5046	28 1/2 × 52 1/2	23 7/8 × 47 7/8	
	FCAX5050	28 1/2 × 58 1/2	23 7/8 × 53 7/8	

Sash

Sash Graphic / Active

Note:
Active French Casement sash shown. See additional **casement types**.



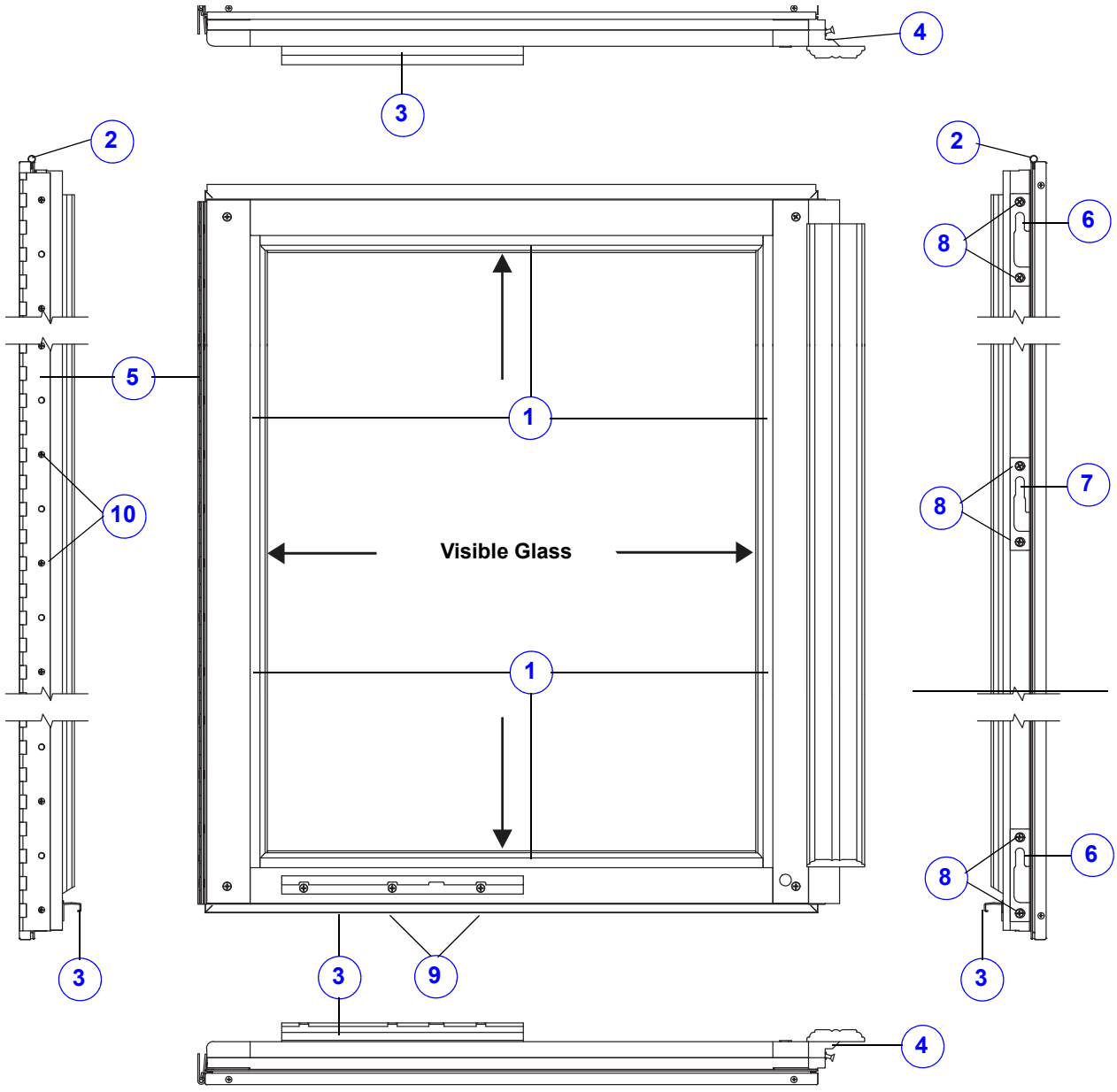
1. Upper Gear
2. Lower Gear
3. Sash Track
4. Astragal
5. Hinge (Piano)
6. Lock Extension
7. Groove Cover
8. Screw (Gears)
9. Screw (Extension & Cover)
10. Screw (Piano Hinge)

E-Series French Casement Active Sash

Sash viewed from interior

Sash Graphic / Inactive

Note:
Inactive French Casement sash shown. See additional **casement types**.



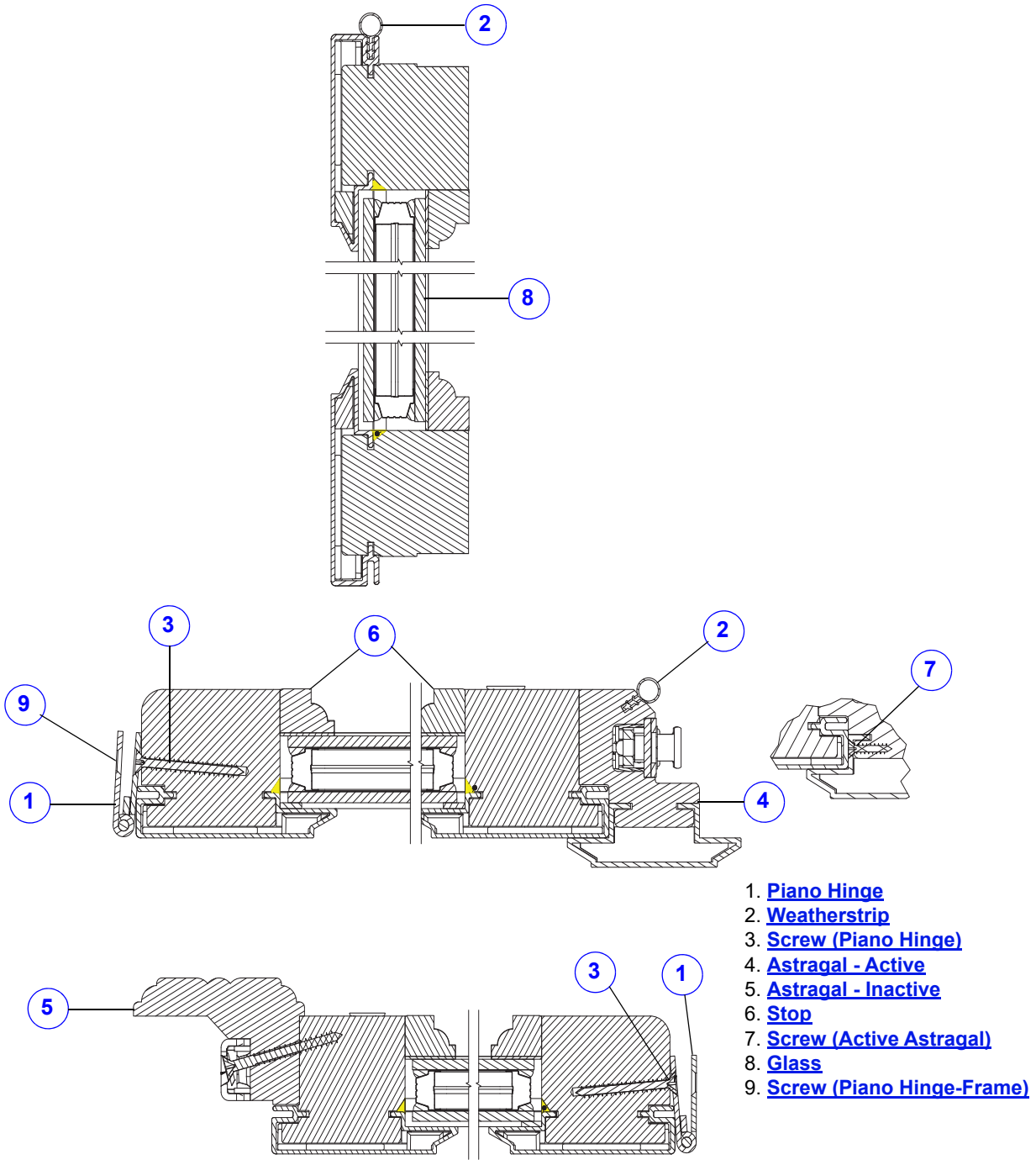
1. Stop
2. Weatherstrip
3. Sash Track
4. Astragal
5. Hinge (Piano)
6. Lock Strike (Top-Bottom)
7. Lock Strike (Center)
8. Screw (Strikes)
9. Screw (Sash Track)
10. Screw (Piano Hinge)

E-Series French Casement Inactive Sash

Sash

Sash Graphic / Detail

Note:
Active and In-Active French Casement sash detail shown. See additional **casement types**.



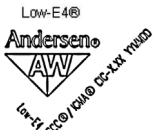
1. Piano Hinge
2. Weatherstrip
3. Screw (Piano Hinge)
4. Astragal - Active
5. Astragal - Inactive
6. Stop
7. Screw (Active Astragal)
8. Glass
9. Screw (Piano Hinge-Frame)

Sash

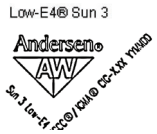
Sash

Note:
Replacement sash for windows are made to order and can be configured through iQ+. Current glazings replace previous vintage glazings. Product ID label is located on the head jamb.

Low-E4®



Low-E4® Sun 3



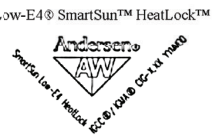
Low-E4® SmartSun™

Low-E4® PassiveSun®

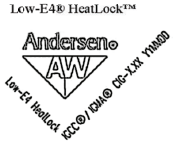
Dual Pane Clear

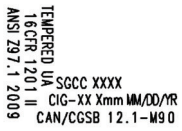
Special Product Request (SPR)

Low-E4® SmartSun™ HeatLock™



Low-E4® HeatLock™





Exterior color options:
Interior species/finish/color options:
Glass options (**See Logo/Etching Examples**):

Low-E4®	**Low-E4® HeatLock**	**Low-E4® SmartSun HeatLock**
Low-E4® SmartSun™	Low-E4® Smart-Sun HeatLock	Low-E4® Triple-Pane
Low-E4® Passive Sun	Low-E4® Sun Heat-Lock	Low-E4® Smart-Sun Triple-Pane
Low-E4® Sun 3	Low-E4® HeatLock **Tempered**	Low-E4® Enhanced Triple-Pane
Low-E4® **Tempered**	**Dual Pane Clear**	Low-E4® Smart-Sun Enhanced Triple-Pane
Low-E4® SmartSun **Tempered**	Cascade	Low-E4® Enhanced Triple-Pane Heat-Lock
Low-E4® Passive Sun **Tempered**	Fern	Low-E4® Smart-Sun Enhanced Triple-Pane HeatLock
Low-E4® Sun **Tempered**	Reed	

To order, state:

Product ID (from product label, see Service Guide 9051877)

OR

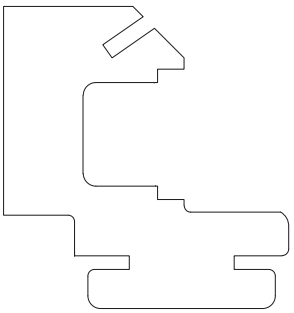
1. **Unit or frame size (FCAX XXXX or frame W x H dimensions)**
2. **Description of part (Active Sash, Inactive Sash)**
3. **Sash handing (Right, Left, or Stationary)**
4. **Exterior color of sash to be replaced**
5. **Interior wood species/finish/color of sash to be replaced**
6. **Glazing/Grille type**
7. **Glass Stop Type (Ovolo, Contemporary)**
8. **Manufacturing Date**

Sash

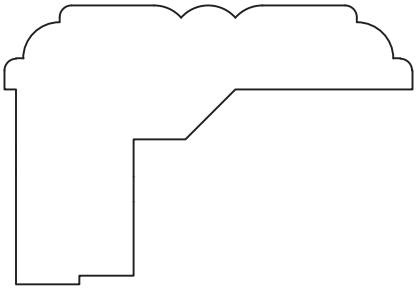
Sash Parts

Astragal

Note:
Replacement astragals for active and in-active sash are made to order.



Active



In-Active

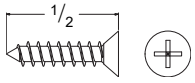
To order, state:

Product ID (from product label, see Service Guide 9051877)

OR

1. **Unit or frame size (FCAX XXXX or frame W x H dimensions)**
2. **Description of part (Active Astragal, In-Active Astragal)**
3. **Sash handing (Right, Left)**
4. **Interior/Exterior wood species/finish/color of astragal to be replaced**

Astragal Screw (Active Astragal)



Description	Order No.
#4 X 1/2 PFHSMS Type AB 18-8 SS	0009884

Weatherstrip

Weatherstrip

Color	Size	Order No.
White	10 ft (120″)	9103912
Black		9103913
White	25 ft (300″)	9103816
Black		9103817

Glass

Glass

Note:
Replacement glass is made to order and can be configured through iQ+. Current glazings replace previous vintage glazings. Product ID label is located on the head jamb. Glass ships with sealant and spacers. See Accessory Guide 9176386.

Low-E4®

Low-E4® Sun 3

Low-E4® SmartSun™

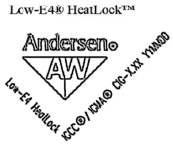
Low-E4® PassiveSun®

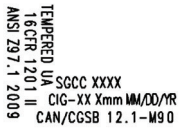
Dual Pane Clear

Special Product Request (SPR)

Low-E4® SmartSun™ HeatLock™

Low-E4® HeatLock™





Exterior color options:
Interior species/finish/color options:
Glass options (See Logo/Etching Examples):

Low-E4®	**Low-E4® HeatLock**	**Low-E4® SmartSun HeatLock**
Low-E4® SmartSun™	Low-E4® Smart-Sun HeatLock	Low-E4® Triple-Pane
Low-E4® Passive Sun	Low-E4® Sun Heat-Lock	Low-E4® Smart-Sun Triple-Pane
Low-E4® Sun 3	Low-E4® HeatLock **Tempered**	Low-E4® Enhanced Triple-Pane
Low-E4® **Tempered**	**Dual Pane Clear**	Low-E4® Smart-Sun Enhanced Triple-Pane
Low-E4® SmartSun **Tempered**	Cascade	Low-E4® Enhanced Triple-Pane Heat-Lock
Low-E4® Passive Sun **Tempered**	Fern	Low-E4® Smart-Sun Enhanced Triple-Pane HeatLock
Low-E4® Sun **Tempered**	Reed	

To order, state:

Product ID (from product label, see Service Guide 9051877)

OR

1. **Unit or frame size (FCAX XXXX or frame W x H dimensions)**
2. **Description of part (Glass)**
3. **Glazing/Grille type**
4. **Glass Stop Type (Ovolo, Contemporary)**
5. **Manufacturing Date**

Glass

Glass Stops

Stops - Top / Bottom / Side

Note:
Stops (top, bottom and side) are made to order.

To order, state:

Product ID (from product label, see Service Guide 9051877)

OR

1. **Description of Part/Size (Stop)**
2. **Color/Species/Finish**
3. **Location/Handing (Top, Bottom, Side)**
4. **Type (Ovolo, Contemporary)**
5. **Manufacturing Date**

Interior species/finish/color options

Glass

Glass Parts			
Glazing Tape			
Note: See **Accessory Guide 9064542**.			
		Color	**Order No.**
		Gray	33751RL
Sealant			
		Color	**Order No.**
		Dove Gray	9164412
Spacer			
		Size	**Order No.**
		3 x $^{1}/_{4}$ x $^{1}/_{16}$	9152146

Insect Screens

Insect Screen

Note:
Retractable and standard screens available in fiberglass, aluminum and TruScene® material. Replacement insect screens can be configured in iQ+.

Color/finish options

Species/finish/color options

Standard Screen

Retractable Screen

Insect Screen - Standard Screens

Insect Screen - Standard Screens

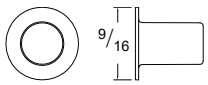
Unit No.		Dimensions (w x h)	Graphic
34	FCAX3430	36 13/32 X 31 19/32	
	FCAX3434	36 13/32 X 35 19/32	
	FCAX3440	36 13/32 X 43 19/32	
	FCAX3446	36 13/32 X 49 19/32	
	FCAX3450	36 13/32 X 55 19/32	
40	FCAX4030	44 13/32 X 31 19/32	
	FCAX4034	44 13/32 X 35 19/32	
	FCAX4040	44 13/32 X 43 19/32	
	FCAX4046	44 13/32 X 49 19/32	
	FCAX4050	44 13/32 X 55 19/32	
48	FCAX4830	52 13/32 X 31 19/32	
	FCAX4834	52 13/32 X 35 19/32	
	FCAX4840	52 13/32 X 43 19/32	
	FCAX4846	52 13/32 X 49 19/32	
	FCAX4850	52 13/32 X 55 19/32	
50	FCAX5030	56 13/32 X 31 19/32	
	FCAX5034	56 13/32 X 35 19/32	
	FCAX5040	56 13/32 X 43 19/32	
	FCAX5046	56 13/32 X 49 19/32	
	FCAX5050	56 13/32 X 55 19/32	

Insect Screens

Insect Screen Parts

Grommet

Note:
Used with standard and wood veneer screen.

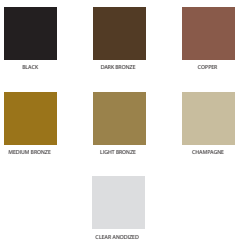
		Order No.
		0009220

Grilles

Note:
Replacement sash with permanently applied grilles and finelight grilles can be configured in iQ+. Replacement removable interior grilles can be configured in iQ+. Removable grilles are only available in 7/8″ profile.

Exterior color/finish options

ANNODIZED FINISHES



Interior species/finish/color options

WOOD SPECIES

Pine | Maple | Oak

Cherry | Mahogany * | Alder

Mixed Grain Douglas Fir | Vertical Grain Douglas Fir | Hickory

Walnut | White Oak

FACTORY-FINISHED INTERIORS

Clear Coat | Wheat | Autumn Oak

Golden Hickory | Honey | Cinnamon

Russet | Mocha | Espresso

PAINTED OPTIONS

White | Birch Bark | Primed (for paint)

Canvas | Sandtone | Terratone

Forest Green | Dark Bronze | Dove Gray

Prairie Grass | Red Rock | Cocoa Bean

Black

Painted options available with pine and maple only.

Grilles

Grille Options

Note:
Replacement sash with permanently applied grilles and finelight grilles can be configured in iQ+. Replacement removable interior grilles can be configured in iQ+. Removable grilles are only available in 7/8˝ profile.

Types

Full Divided Light

Give any window an authentic look with full divided light grilles that are permanently applied to the interior and exterior of your window with a spacer between the glass.

Simulated Divided Light

An economical solution with traditional beauty, our Simulated Divided Light features fixed exterior and interior grilles without an internal spacer.

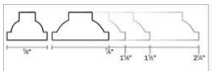
Removable Interior Wood Grilles

Our removable wood grilles are installed on the interior surface. They are available with an optional surround and an optional permanently applied exterior grille.

Finelight™ Grilles-Between-the-Glass

Aluminum grilles conveniently placed between two panes of glass make the glass easy to clean inside and out.

Profiles



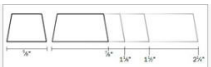
Interior Wood: Ovolo (Colonial)

Widths:

- 5/8"
- 7/8"
- 1 1/8"
- 1 1/2"
- 2 1/4"

Available with:

- Full Divided Light
- Simulated Divided Light



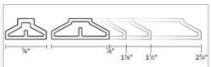
Interior Wood: Contemporary

Widths:

- 5/8"
- 7/8"
- 1 1/8"
- 1 1/2"
- 2 1/4"

Available with:

- Full Divided Light
- Simulated Divided Light



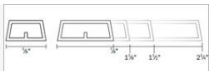
Exterior Aluminum: Chamfer

Widths:

- 5/8"
- 7/8"
- 1 1/8"
- 1 1/2"
- 2 1/4"

Available with:

- Full Divided Light
- Simulated Divided Light
- Removable Interior Wood with Optional Permanently Applied Exterior Grille



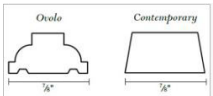
Exterior Aluminum: Contemporary

Widths:

- 5/8"
- 7/8"
- 1 1/8"
- 1 1/2"
- 2 1/4"

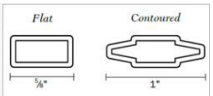
Available with:

- Full Divided Light
- Simulated Divided Light
- Removable Interior Wood with Optional Permanently Applied Exterior Grille



Removable Interior Wood Grilles

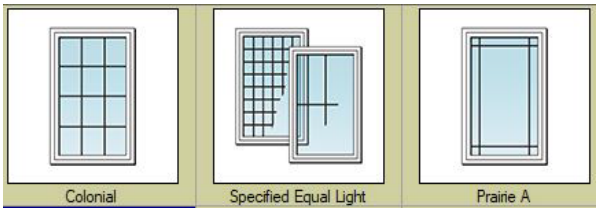
Ovolo or Contemporary profiles in 7/8" width

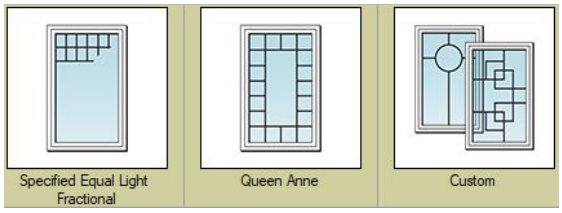


Finelight Grille Profiles and Widths

Flat or Contoured profiles in 5/8" or 1" widths

Patterns



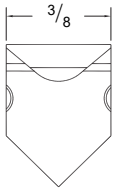


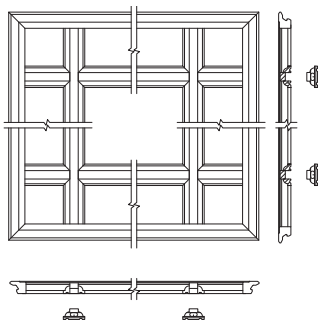
Grilles

Interior Grille Parts

Clip - Surround

Note:
Used with framed removable grilles.

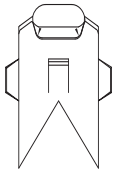


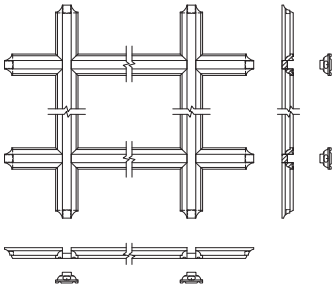


Order No.
0004900

Clip - Knocked Down

Note:
Used with knocked down removable grilles.



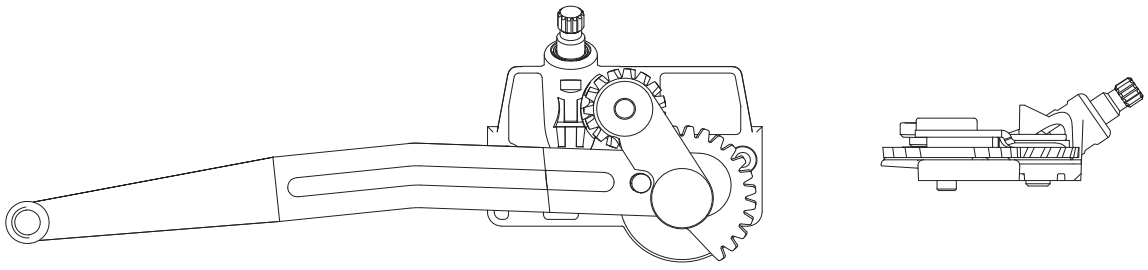


Order No.
0004901

Hardware

Operator

Note:
Stainless Steel.

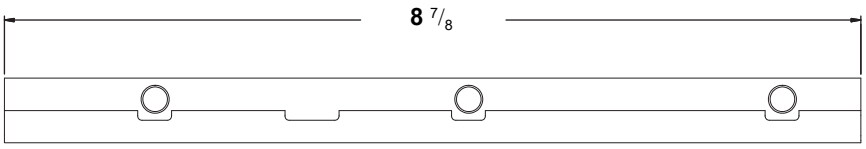


French Casement Operator

Operator / > 21″

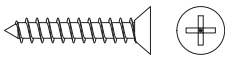
LH	RH
0011828	0011829

Track / Operator



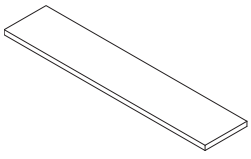
Order No.
0007673

Screw / Operator Track



Description	Finish	Order No.
#7 x 7/8″ PFHSMS Type AB Stainless Steel	Stainless Steel	0015746

Shim / Operator



Order No.
0067498

Screw / Shim

Description	Finish	Order No.
#8 x 1″ PFHSMS	Z & Y	0013396

Hinge - Piano

Hinge - Piano

Note:
Secures to sash and frame.

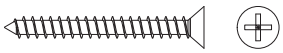
To order, state:

Product ID (from product label, see Service Guide 9051877)

OR

1. **Unit height**
2. **Description of part (Piano Hinge 2˝)**
3. **Hinge color (Black, Stainless Steel)**

Screw - Piano Hinge

	Description	Order No.
	#7 X 1 1/4 SS	0027959

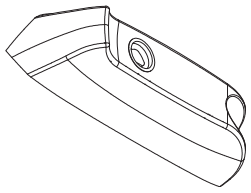
Screw - Piano Hinge (Frame)

	Description	Order No.
	#7 X 5/8 SS	0015331

Operator Cover

Operator Cover

Note:
Handed as the unit is handed unless piano hinges are used. Piano hinges are “standard” on French Casement units.

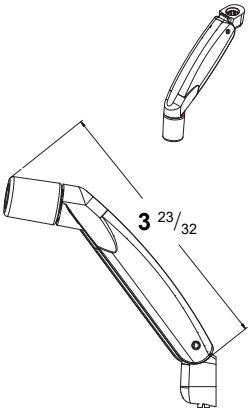


Color	Order No. LH RH (Piano)	Order No. RH LH (Piano)
Black	9105294	9105295
Gold	9105292	9105293
Bronze	9105290	9105291
White	9105288	9105289
Antique Brass	9105306	9105307
Bright Brass	9105296	9105297
Satin (Brushed) Chrome	9105302	9105303
Bright (Polished) Chrome	9105304	9105305
Bronze	9105290	9105291
Oil Rubbed Bronze	9105298	9105299
Pewter	9105300	9105301

Hardware

Handles

Folding Handle (Crank)

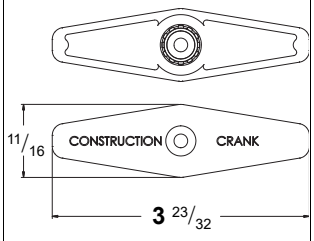


Finish	Order No.
Black	0007663
Gold	0007662
Bronze	0007661
White	0007660
Antique Brass	0007669
Bright Brass	0007664
Satin Chrome	0007667
Bright Chrome	0007668
Oil Rubbed Bronze	0007665
Pewter	0007666

Handle Assembly

Finish	Standard
Black	0013784
Brass	0013785
Bronze	0013786
White	0013788
Antique Brass	0013782
Bright Chrome	0013783
Satin Chrome	0013787

Temporary Handle - Operator

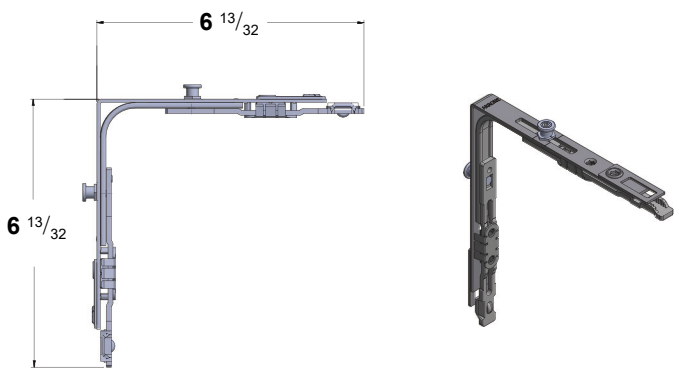
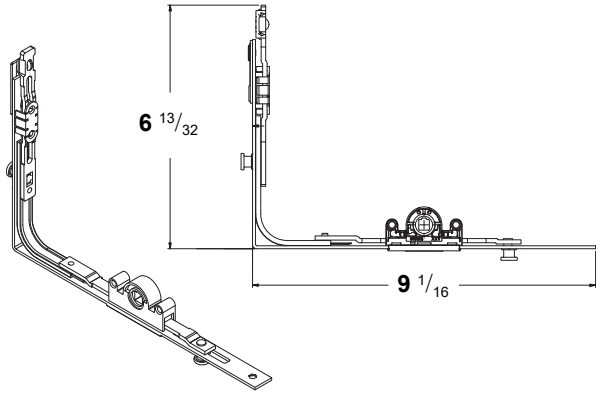
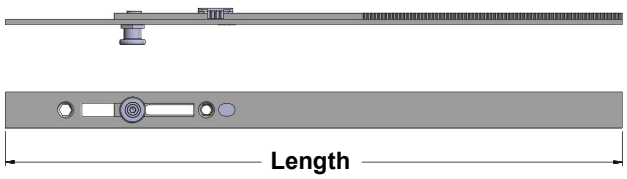


Order No.
0007896

Locks and Lock Components

Lock Gear

Note:
Unit width <= 48˝ uses **8** 5/8 lock extension (9167996).
Unit width >48˝ uses **10** 5/8 lock extension (9167997).

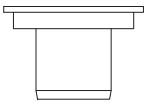
	Type	Length (Horizontal)	Order No.
	Upper Gear	**6** 13/32	9167991
	Lower Gear	**9** 1/16	9167990
	Extension	**6** 7/8	9167996
		8 7/8	9167997

Screw - Lock

	Description	Type	Order No.
	4.2 x 35 Self-Drilling	Stile Screw	9183988
	4.0 x 32MM Self-Drilling	Rail Screw	0205690

Hardware

Cover - Groove



Type	Order No.
Short	0208537

Lock Linkage

Note:
Need to specify unit height and Product ID.

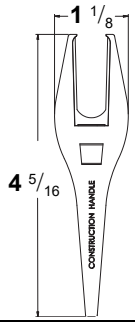
Order No.
By description

Lock Strike Ref. No. 6 & 7 page 11

Note:
Secures to inactive sash.

Top (Astragal) Bottom (Astragal) Sill	Center (Astragal)
9170370	9167988

Temporary Handle - Lock



Order No.
0008949

Optional Hardware

Sleeve Magnet			
	Note: Used with Verilock.	**Finish**	**Order No.**
		White	0015968
		Brown	0015967

Hardware

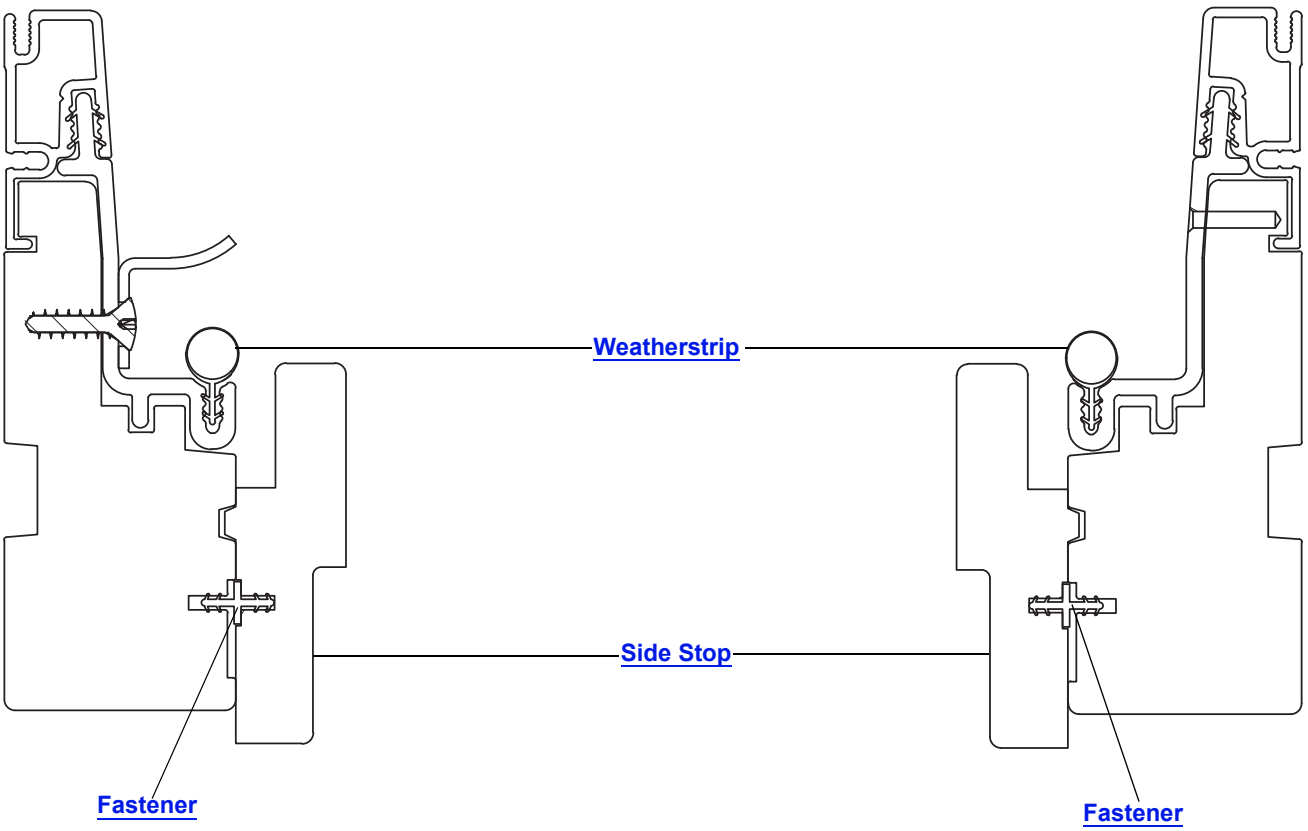
Fasteners

Screw - Sash Limiter		
	Description	**Order No.**
	#8 X 3/4 PPHSMS Type AB 18-8 SS	0033736

Screw - Sill Stop		
	Description	**Order No.**
	#8 X 2 1/8 PFHSMS Type AB Z & Y	9105309

Frame - Side Jambs

Note:
French casement unit shown. See latest **details**.

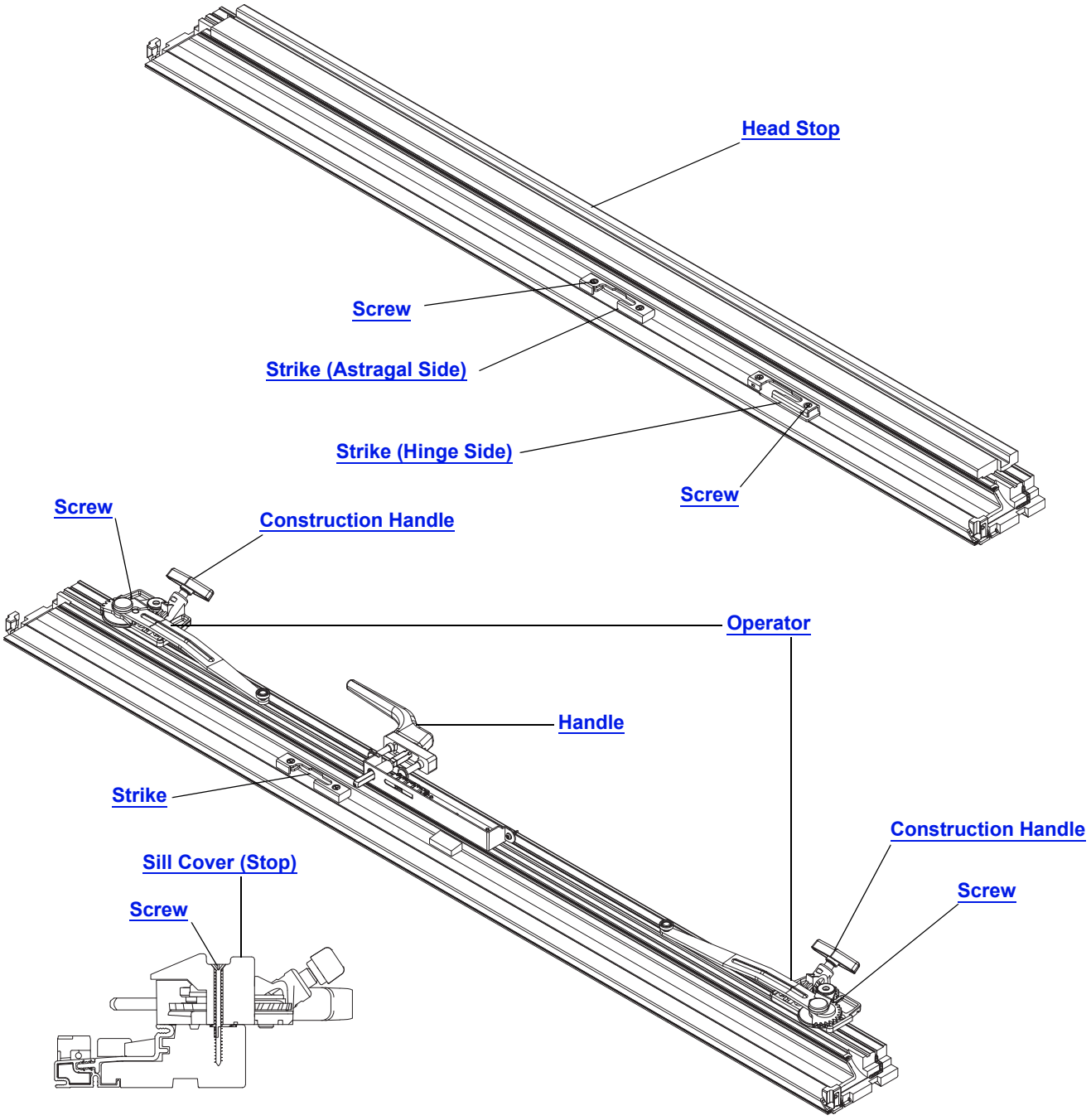


French Casement Frame (Side Jambs) Assembly

Frames

Frame - Head Jamb and Sill

Note:
French casement unit shown. See latest details.



French Casement Frame (Head and Sill) Assembly

Frame

Note:
Replacement frames are made to order and can be configured through iQ+. Replacement frames ship with hardware.

To order, state:

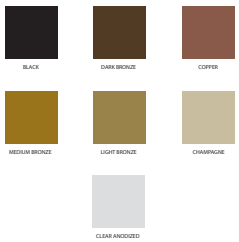
Product ID (from product label, see Service Guide 9051877)

OR

1. **Description of Part/Size (FCAX XXXX or frame W X H dimensions)**
2. **Colors/Species/Finish**
3. **Manufacturing Date**

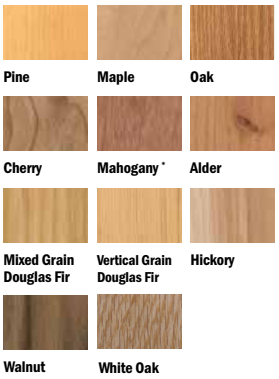
Exterior color/finish options

ANNODIZED FINISHES



Interior species/finish/color options

WOOD SPECIES



FACTORY-FINISHED INTERIORS

PAINTED OPTIONS

Painted options available with pine and maple only.

Frames

Stops

Stops - Head / Sill / Side

Note:
Stops (head, sill and side) are made to order.

To order, state:

Product ID (from product label, see Service Guide 9051877)

OR

1. **Description of Part/Size (Stop)**
2. **Color/Species/Finish**
3. **Location/Handing (Head, Sill, Lock Jamb, Hinge Jamb, LH, RH)**
4. **Manufacturing Date**

Interior species/finish/color options

Weatherstrip

Weatherstrip

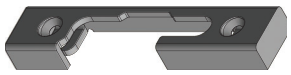
Size	Order No.
10 ft (120″)	9103914
25 ft (300″)	9103915

Frame Parts

Fastener

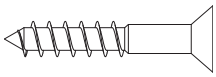
Size	Order No.
3″	000CFS3
6″	000CFS6
34″	00CFS34
55″	00CFS55
96″	00CFS96

Strike



Type	Order No.
Head (Astragal Side) Sill	9170370
Head (Hinge Side)	9170371

Screw - Strike



Finish	Order No.
Unfinished	0205692

Frames