



Manufacturer's Installation Manual



VALUE Windows & Doors

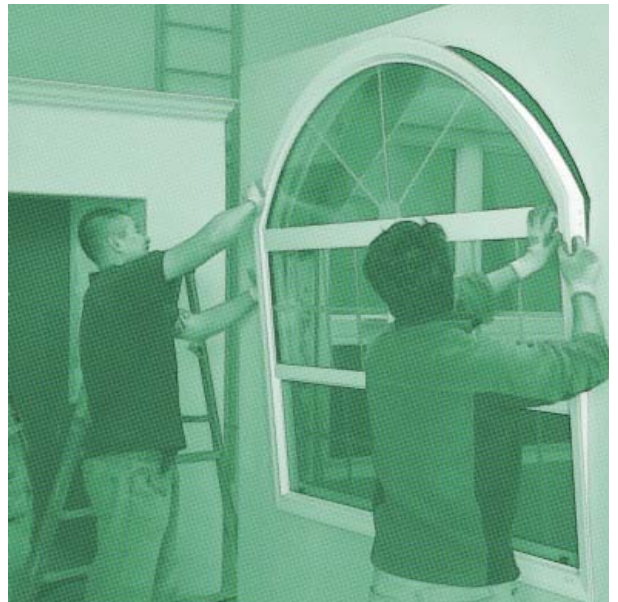
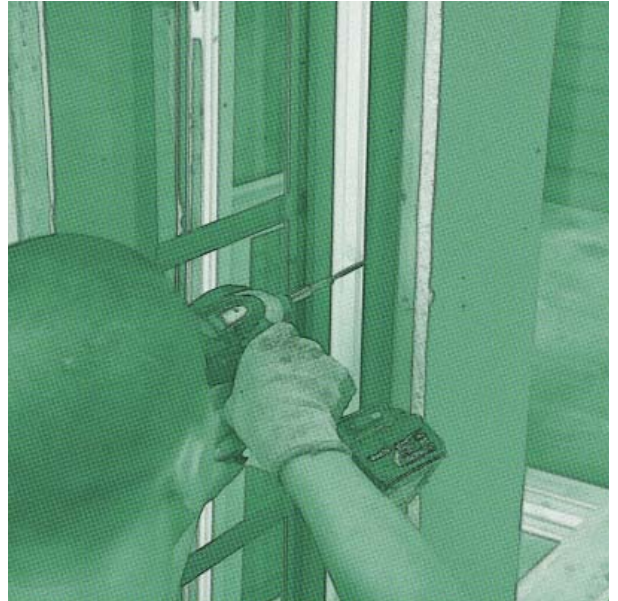
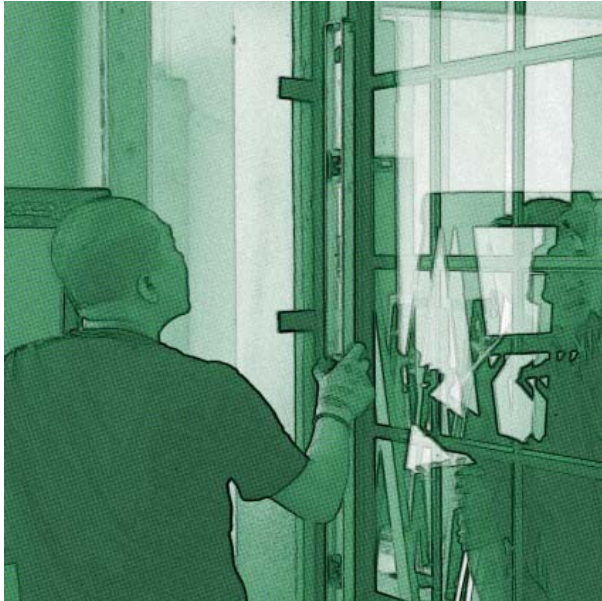


Table of Content

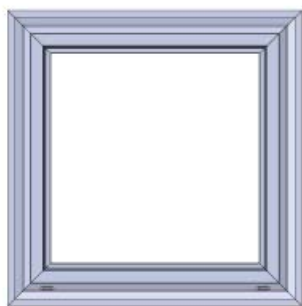
Introduction.....	1
Chapter 1: Types of Windows and Doors.....	2
Chapter 2: Pre-Installation Preparation.....	4
Chapter 3: Opening Preparation.....	6
Chapter 4: Nail-on Window & Door Installation.....	9
Chapter 5: Block Window & Door Installation.....	10
Chapter 6: Retro-fit Window & Door Installation.....	11
Chapter 7: Fixed (Picture) Window.....	12
Chapter 8: Horizontal Sliding Window	14
Chapter 9: Single Hung / Single Hung Tilt Window.....	16
Chapter 10: Double Hung Tilt Window.....	19
Chapter 11: Casement Window.....	21
Chapter 12: Bay/ Bow Window.....	23
Chapter 13: French Swing Door.....	25

Chapter 14: Two Panel Sliding Patio Door.....	28
Chapter 15: Silicone Caulking Instruction Guide.....	32
Chapter 16: Expand Form and Flat Trim Usage Guide.....	36
Appendix.....	38

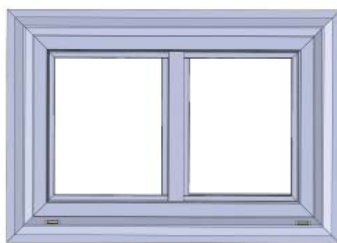
INTRODUCTION

The information demonstrated in this manual has been developed specifically to show properly install windows manufactured by Value Windows and Doors. The installation manual is developed as a guideline for licensed contractor when they are installing Value's products. We do not guarantee the completeness of this manual as every installation application is different. Consult local building codes to make sure window installation goes correctly and properly. The installation manual may revise as products updating and new concerns involving. Always download the latest version for proper installation instruction from our website. Always follow the OSHA safety guide for proper protection.

Chapter 1 Types of Windows and Doors



1. FIXED



2. HORIZONTAL SLIDER



3. SINGLE HUNG



4. DOUBLE HUNG



5. CASEMENT



6. BAY/BOW

1. FIXED OR PICUTRE WINDOW (PW)

- Fixed non-venting sash
- Ideal for large openings, great for letting in lots of natural light
- Available in Imperial, Galaxy or GS Series
- No moving parts, little to no maintenance

2. HORIZONTAL SLIDER (XO)

- A versatile window with left or right horizontally rolling sash, with or without a fixed center panel
- Ideal for very large openings
- Configurations include XO or OX and XO
- Automatic lock
- Composite bearing rollers for smooth operation
- Available in Imperial, Galaxy or GS Series

3. SINGLE HUNG/TILT (SH/T)

- A versatile window with opening lower sash, fixed upper sash
- Ideal for very large openings
- Automatic lock
- Heavy duty balance shaft for easy open and close operation.
- Available in Imperial, Galaxy or GS Series
- Tilt latch, vent lock available on GS Galaxy models

4. DOUBLE HUNG/TILT (DH/T)

- Dual moving upper and lower sashes.
- Ideal for multi level home where easy access to outer glass is needed
- Easy to remove sashes
- Automatic lock

- Heavy duty balance shafts for easy open and close operation.
- Available in luxury, GS Series
- Tilt latch, vent locks

5. CASEMENT (CM)

- A versatile window with left or right horizontally swinging sash, with or without a fixed center panel
- Ideal for very large openings
- Configurations include XR or XL
- Crank handle folds neatly in place when not in use
- Heavy duty hardware
- Opens 90 degrees
- Many glass configurations available
- Awning configuration also available
- Available in Luxury or GS Series

6. BAY/BOW

Bay Window

- Available in various configurations
- Automatic lock(SH Models)
- Dual night latches on both sashes (SH Models)
- Plywood top and bottom included
- 1" IG, Many glass configurations available(GS Models)

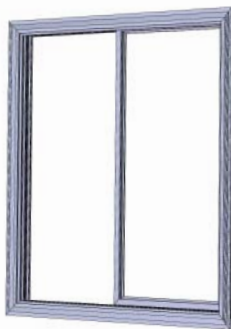
Bow Window

- Many configurations available, single hung, casement
- Automatic locks(SH models)
- Dual night latches on both sashes
- 3/4" IG, Many glass configurations available(GS Model)

Chapter 1 Types of Windows and Doors



7. FRENCH SWING DOOR



8. SLIDING PATIO DOOR

7. FRENCH SWING DOOR (FSD)

- Swing Door Design
- Many configurations, XX XO, OX XOX, OXXO
- Great transitional doorway
- Durable die zinc cast hardware with powder coated finish
- New fully adjustable tamper resistant hinges
- Available Transoms, fixed or operable side lights
- 1 1/4" IG, Many glass configurations available

8. SLIDING PATIO DOOR (PD)

- Many configurations, XO, OX XOX, XOO
- Great transitional doorway
- New modern ergonomic lock
- Heavy duty nylon rollers for smooth operation
- Night latches
- Available Transoms, fixed or operable side lights
- 1 1/4" IG, Many glass configurations available

Chapter 2 Pre-Installation Preparation

PRE-INSTALL CONSIDERATION

It is significant to get prepared before installation. Following are some factors should be taken into consideration in the pre-installation process: type of walls, windows/doors/shutters frame style, types of windows/doors/shutters, weather, neighborhood environment, etc. **NOTE: the building permit is required to do the remodeling project.**

Type of walls: In California, most residential buildings have wood frame walls, but other type of walls exist as well such as masonry/concrete walls, brick walls, steel stud walls, etc.

Type of frames: Value provides three general style of frames: Retro-fit, Nail-on, and Block. For the Block windows and/or doors, Value provides three option for customers: 3/4" Spacer, 1" Spacer, or Retro-fit fin.

Type of products: Value provides fixed window, horizontal sliding window, single hung windows with or without tilting, double hung tilting window, casement window, awning window, Bay and Bow

window, Garden window, and other combination window. Value provides sliding patio door, and French swing door. Value provides different series windows and doors. Different series windows, doors, and shutters have different design and installation requirements.

Type of weathers: Value strongly recommend NOT to install any products during severe weather, such as storm, hurricane, etc. Value recommend NOT to install any exterior products during such weathers as rainy, snowy, foggy, etc.

Type of neighborhood environment: Value recommend homeowner should pre-notify neighbors about the installation. Value recommend installation team should inspect the environment before installation to prepare the necessary tools or equipment, such as long ladder, scaffold, saw, etc. Installer should discuss the installation plan with homeowner. If necessary, a disclaimer should be signed before installation.

PRE-INSTALL INSPECTION

INSPECT the windows, doors, and shutters to see if they are the correct types, styles, colors and etc. as your ordering.

INSPECT the glass to see if they are matching your ordering. The LowE glass is greenish compared to clear glass. The temper glass has the engraved mark on the glass corner. The laminated glass has the embossed printing mark on the glass corner. For the other special glass (obscure, brown, etc.), please contact your sales representative for identification.

INSPECT the glass for cracks or damages. If cracked is found, call our service department for replacement.

INSPECT the glass for scratches. If any scratches are found from a distance of 40 inches away, please call our service department with technician inspection.

INSPECT the frame appearance. If any dent or chip-off found on the surfaces, please call our service department with technician inspection. For the Color-coating windows and doors, if minor painting scratches are found, please contact your installer for painting touch-up; if serious painting scratches and/or paint chip-off are found, please contact our service department immediately.

Chapter 2 Pre-Installation Preparation

INSPECT the screen window/door. If any broken or damage screen found, please contact for our service department.

INSPECT shutter handle and sheet to see if there is

any loosen or damage.

INSPECT the accessories if there is any, and read the attached installation instruction carefully.

PRE-INSTALL PRODCUT STORAGE

If the windows, doors, and/or shutters are not expected to be installed immediately upon delivery, they must be properly and carefully stored until installation. Any improper storage may cause damage to the products, and affect on the lifetime warranty effective.

Value strongly recommend the installer or homeowner keep the factory package and corner protections until installation.

Value recommend the products to be stored inside of building to avoid accidental move and severe weather damnification.

Value recommend the products to be stored in less traffic space such as storage or garage where people cannot reach.

Value recommend the products to be covered by cloth to avoid dust or other contamination.

Value recommend the cross-bracing to be applied to the windows and doors to maintain squareness.

Value recommend the products to be installed within 3 months upon the date of delivery.

PRE-INSTALL CLIENT PROPERTY PROTECTION

For window and door replacement project, installers and workers should take caution to protect client/homeowner's property including exterior/interior furnishing, gardening, and other real estate. If any damage cannot be avoided, for example bush or flowers blocking the working spaces, a pre-negotiation should be discussed with client. If necessary, a disclaimer should be signed before installation.

Installer should wear gloves to remove client's furniture or other property for working spaces, and should move it back after installation.

Installer should use tape and paper to protect the

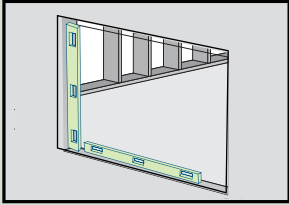
interior floor and walls.

Installer should pre-notify client/homeowner to cover furniture or other property to avoid dusts.

Installer should cleanup the working spaces when the job is finished, specially for broken glasses.

Chapter 3 Opening Preparation

NEW CONSTRUCTION INSTALLATION PREPARATION



For the new construction project, the installation team should check the window or door opening for level, plumb, and squareness. During installation, installer should adjust the level, plumb, and squareness of the window and

door regardless of the jambs, headers, and sills of the rough opening using shims if necessary. Use flashing paper and seal caps for nail-on style window and door. Follow the instruction of flashing paper settlement in the Chapter 4 Nail-on Window and Door Installation.

REPLACEMENT INSTALLATION PREPARATION

For replacement remodeling project, the installation team should remove the previous window or door before new product installation.

1. When removing the old window or door, following the procedures as a guide:
2. Installers or workers shall wear safety equipment, such as glove, safety goggles, masks, etc.
3. Apply cross-tape if glass breakage is necessary to avoid injury.
4. While removing single hung or double hung style window, the movable sash should be removed in

movable sash should be removed in the first place off the position of the anti-lift design.

6. **For retro-fit style window replacement (mostly for previous aluminum window or door):** Use a circular handsaw to cut off the mullion. (Be aware of the glass in the fixed panel.) Gently remove the glass unit from the fixed panel. Pry off the exposed nails and/or screws from the old frame. Use a sander to sand the old frame for new window installation. **Note: safety goggle is required for sanding.**



Remove the sash one after another

the first place. **Caution: be aware of the balance mechanism when removing the movable sash to avoid injury.**

5. While removing horizontal sliding window, the



Only leave aluminum Frame

Chapter 3 Opening Preparation

7. For block style window replacement (mostly for previous wood window or door): First use a circular handsaw to cut off the mullion. (Be aware of the glass in the fixed panel.) Gently remove the glass unit from the fixed panel. Pry off all the nails and screws on the frame. Then use a circular handsaw cut off the frame and remove them. Clean all the old edge trimmings. Use a sander to sand the opening for new window installation if necessary. **Note: safety goggle is required for sanding.**

IMPORTANT: installer should pre-notify and discuss the replacement plan with clients/homeowners, including after work products performance, appearance, and environmental effects.



Remove old side trim, nails, and screws

SAFETY CONCERN



Safety protection and cautions are very important in construction project. Over the past many year, injury happened frequently during the constructions. Some of them

caused severe disable because of lack of safety awareness. To avoid accidents during installation, installer and workers must regulate the proper safety rules.

Following are some safety tips.

- Always read and fully understand all manufacturers' installation instructions before starting.
- Always follow the local building code for proper and legal installation.
- Apply OSHA safety instruction during installa-

tion.

- Do not work alone. Two or more people are required. Use safe lifting techniques.
- Wear safety protective equipment. (e.g. gloves, safety goggles, masks, ear protect, etc.)
- Do not wear any open-toe shoes during installation. Steel toe working boots are recommended.
- Use ladder, scaffold, or even scissorlift/bomblift at elevated heights.
- Use cross-tape when glass breakage is necessary.
- Do not install

CAUTION: IF INJURY OCCURS, IMMEDIATELY SEEK MEDICAL ATTENTION!

Chapter 3 Opening Preparation



SPECIAL SAFETY AWARENESS

DEALING WITH LEAD-BASED PAINTS:

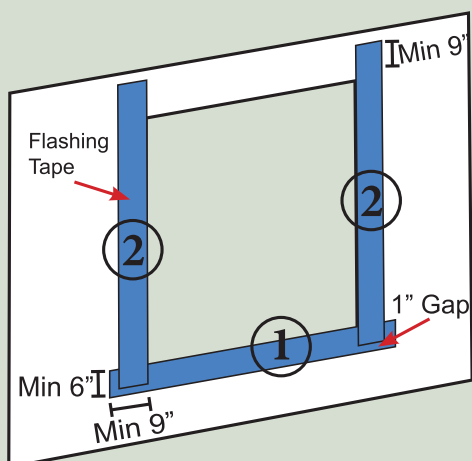
Before 1970s, many paint contains lead. The lead-based paint dust or chips can cause serious health problems. While dealing with lead-based paint, installer and workers must wear masks and safety goggles to avoid dust pollution. A work area seal-off is recommended during installation. In addition, children and pregnant women must not stay in the work area during the process of lead-based paint removal. A clean-up work is necessary after the installation project completed. If the project lasts more than one-day long, a daily clean-up is strongly recommended after work every day. While cleaning, avoid expanding the dusts or chips to cause secondary pollution. If pollution happened to human being, go to the nearby medical center immediately for help. **NOTE: permit may need for lead-based paint removal project, and after-work waste-treatment.**

DEALING WITH ASBESTOS DRYWALL:

Before mid-1970's, asbestos are commonly used in building products including drywall. The dust of drywall containing asbestos can cause serious health problems. During installation, installer and workers must wear masks and safety goggles to avoid dust pollution. The removed drywall should be carefully stored for proper waste treatment. Children and pregnant women must not stay in the work area. A after work clean-up is required. If pollution happened to human being, go to the nearby medical center immediately for help. **NOTE: permit may need for asbestos removal project, and after-work waste-treatment.**

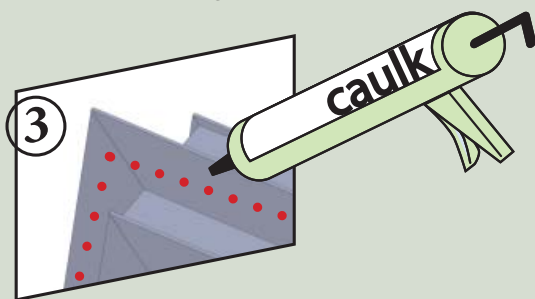
Chapter 4 Nail-on Window & Door Installation

FLASHING PAPER SETTLEMENT

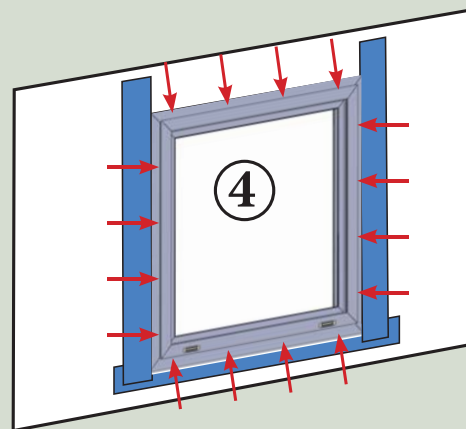


1. Place flashing paper along bottom horizontal edge. Paper must extend at least 9" past opening edge on either side. Paper must be minimum 6" wide.

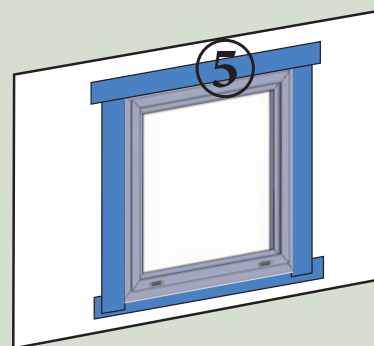
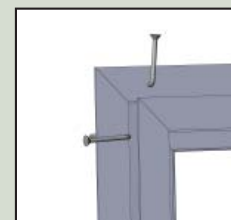
2. Place flashing paper on vertical edges. Paper must extend at least 9" at top and must be 1" shorter than lower horizontal flashing paper.



3. Before placing door in opening, apply silicone caulking around inside nail fin. Apply silicone as shown.



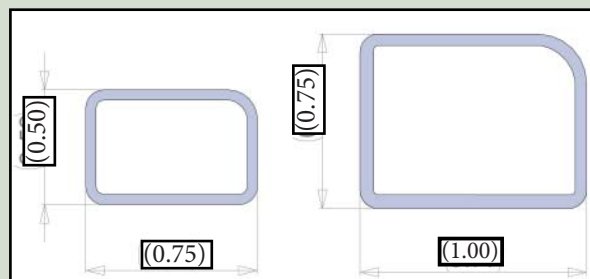
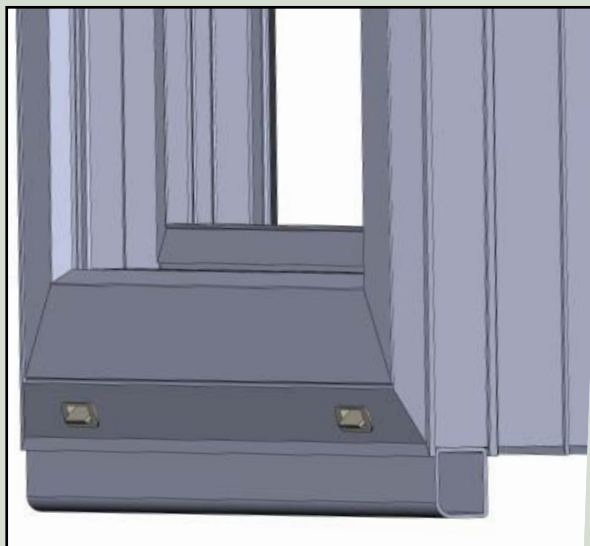
4. Place Door in opening and nail into place using 10D nails. Nails must enter 1.5" into stud then bend nail. Begin 2" from edge and nail every 16".



5. Place flashing paper along top edge of opening. Flashing Paper must extend at least 9" past opening edge on either side. Paper must be minimum 6" wide.

Chapter 5 Block Window & Door Installation

SPACER OPTION

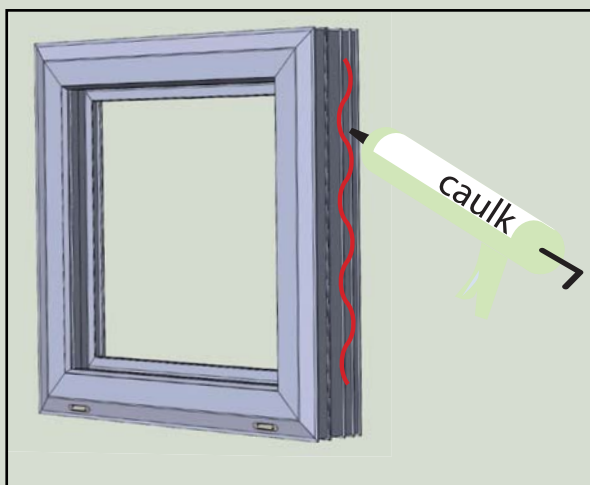


Spacers For Block Style

When install the block style window or door, the support is necessary for some of the incline bottom. Value provides two different size spacers for the block style product ordering. The two sizes are shown in the left bottom picture. The spacer with size 1/2" X 3/4" is called "Small Square tubing"; the spacer with size 3/4" X 1" is called "Large Square Tubing".

Value also provides the bottom Retro-fit style for customer with special request. Customer can cut the Retro-fit fin to a proper width as necessary by installer.

CAULKING TIP



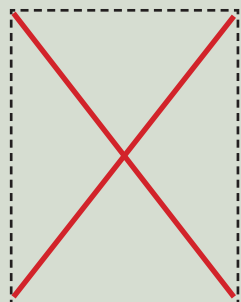
Apply Caulking On Sides

Before placing the block style window or door to the opening, Caulk is necessary to be applied to the perimeter of the frame shown on the left.

If the window or door is not exposed to elements such as under a large over hang or porch/patio roof, this step may be skipped. See **CHAPTER 15** for proper sealant installation techniques.

Chapter 6 Retro-fit Window & Door Installation

OLD WINDOW REMOVAL



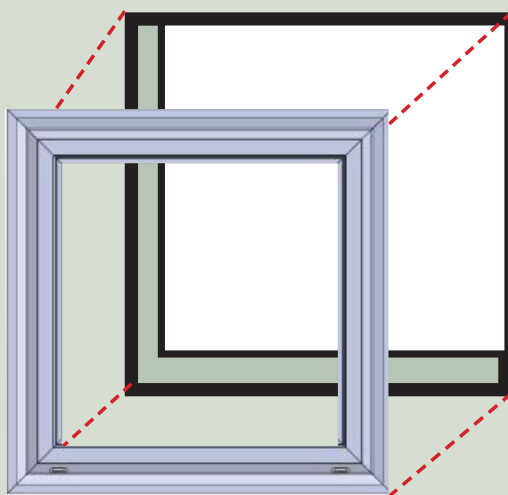
Add tape across glass pane



Remove Old Windows

Most of the retro-fit window or door are applied to the replacement project. Thus, the old window removal is required before installation. See Chapter 3 for more details. Note: while removing the old windows or doors, it is necessary to wear gloves and safety goggles, and use tapes in case of glass breakage.

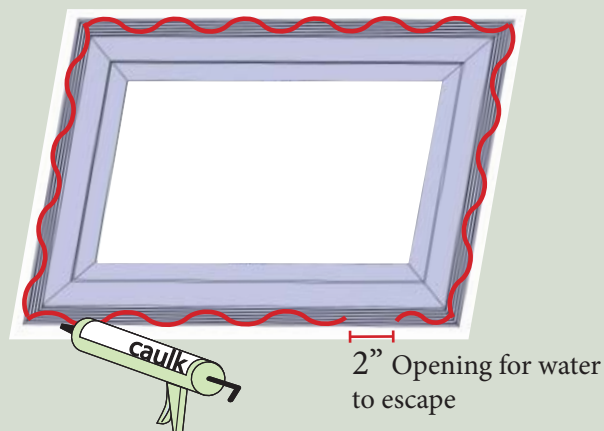
TEST OPENING



Test Fit Windows in Opening

For retro-fit style replacement windows and doors, it is necessary to test the opening fitness. Windows and doors must be seated on smooth surface. To ensure opening is smooth by removing extra stucco or present window frame by chisel or hammer. NOTE: do not chisel any inner frame or hurt the frame surface due to the leakage concern. Installer can sand down the retro-fit fin for appearance

CAULKING TIP

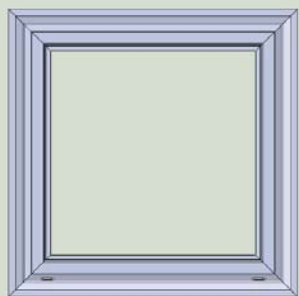


Apply Caulking Behind Fins

For the retro-fit style window and door, it is required to use caulking under the fins. When apply caulking, it is important to leave a 2" long opening for drainage concern. See more details about Caulking in **CHAPTER 15**.

Chapter 7 Fixed (Picture) Window

GENERAL INSTALLATION PROCEDURE



1. Check the operation and sizes of the window before installation. **DO NOT INSTALL** if you find any defects or improper operation. Call our service department for further inspection.

2. Prepare the opening for installation. For replacement window, installer

should remove the old window before installation. Make sure there are 1/4" gap per side between the frame and opening for adjustment.

3. Remove the side caps in the slots.

4. Pre-drill 3/8" holes on the inner surface of the frame where screw goes. Caution **DO NOT** drill through the entire profile.

5. Apply flashing paper for Nail-on window. Apply a continuous bead of high quality sealant on the back of the fins (Retro-fit or Nail-on), toward the interior

of the building, or on the four sides of the frame (Block).

6. Place window into rough opening, making sure fin (Retro-fit or Nail-on) is parallel to the wall, and the entire frame centered to the opening.

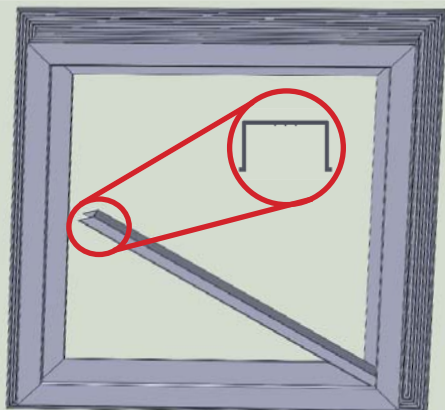
7. Apply screws/nails at most 16" apart from each other. Apply screws wherever the screws holes are pre-drilled. Do not apply screws/nails within 3" from the edges of the four corners. Apply shims wherever the gap between the opening jambs and door frames is larger than 1/8" for extra support.

8. Check the level, plumb, and square of the frame. Before tighten the screws. Reinstall the side caps back to the slots.

9. Apply foams, sealant, and trims wherever are necessary. (See **CHAPTER 15** and **CHAPTER 16**) After the foams and sealant are dry, place the screw caps on the screw holes pre-drilled. Double inspect the operation performance of the window.

FIXED (PICUTRE) WINDOW INSTALLTION DETAIL GUIDLS

STEP 1: REMOVE CAPS

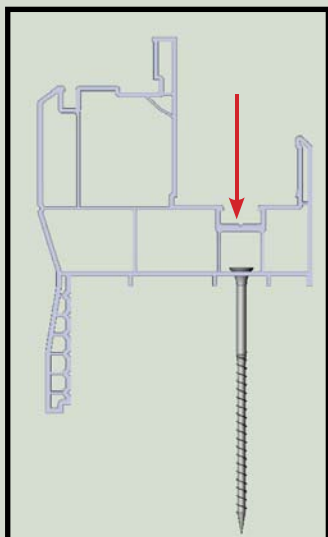


The side caps are designed to cover the slot of the frame. Installer should remove all four side caps. Then screws can be applied in the slots which can be covered by the cap. Installer or worker should keep the removed caps in a safe place in case of loss or damage. If the caps are missing or damaged during the installation, please contact Value Windows and Doors for replacement.

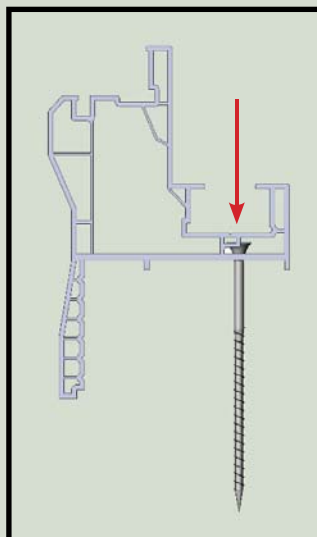
Note: Even though the bottom caps are required to remove during the installation, installer or worker should not applied screws on the bottom. Screws on the bottom may cause water leakage.

Chapter 7 Fixed (Picture) Window

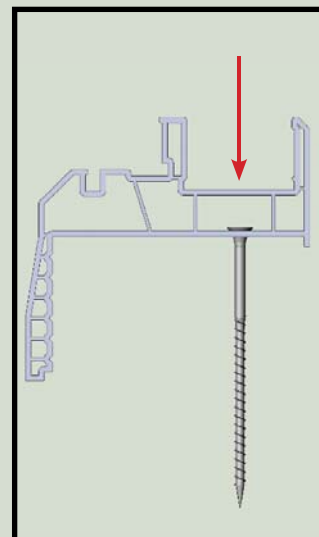
STEP 2: SCREW POSITON



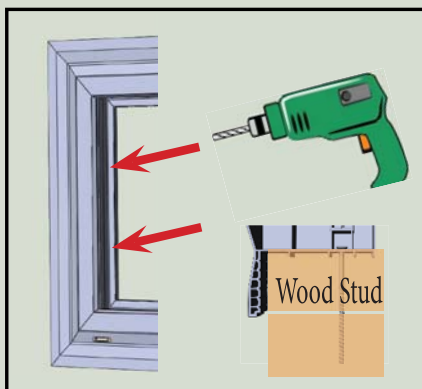
GS Series



Galaxy



Imperial



Pre-Drill Holes into Frame for Screws

Using 10 mm mill bit, locate correct screw location and pre-drill holes for installation screws. Vinyl plugs will cover the holes

Caution: Do not drill all the way through the frame! Do not drill on bottom!

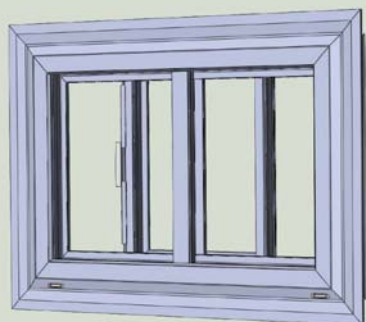
NOTE 1: Before installation, the sash should be removed from the window. The sash should be sliding open 2/3 of maximum to be taken off.

NOTE 2: Pay attention to screw positions. Screws must be mounted in the correct location as shown on the left to avoid leaking and locking problems.

NOTE 3: 3 1/2 inches long screws must be used to screw into the side jambs or headers to properly support the window. No screws should be applied to sills.

Chapter 8 Horizontal Sliding Window

GENERAL INSTALLATION PROCEDURE



1. Check the operation and sizes of the window before installation. **DO NOT INSTALL** if you find any defects or improper operation. Call our service department for further inspection.
2. Prepare the opening for installation. For replacement window, installer should remove the old window before installation. Make sure there are 1/4" gap per side between the frame and opening for adjustment.
3. Remove the movable sash panels from the window. Be aware of the anti-lift design.
4. Pre-drill 3/8" holes on the inner surface of the frame where screw goes. Caution **DO NOT** drill through the entire profile.
5. Apply flashing paper for Nail-on window. Apply a continuous bead of high quality sealant on the back

of the fins (Retro-fit or Nail-on), toward the interior of the building, or on the four sides of the frame (Block).

6. Place window into rough opening, making sure fin (Retro-fit or Nail-on) is parallel to the wall, and the entire frame centered to the opening.

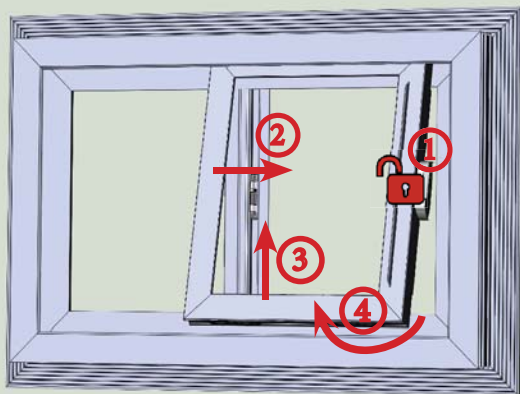
7. Apply screws/nails at most 16" apart from each other. Apply screws wherever the screws holes are pre-drilled. Do not apply screws/nails within 3" from the edges of the four corners. Apply shims wherever the gap between the opening jambs and door frames is larger than 1/8" for extra support.

8. Check the level, plumb, and square of the frame. Before tighten the screws. Install the movable sash back, make sure the window has a proper operation performance.

9. Apply foams, sealant, and trims wherever are necessary. (See **CHAPTER 15** and **CHAPTER 16**) After the foams and sealant are dry, place the screw caps on the screw holes pre-drilled. Double inspect the operation performance of the window.

HORIZONTAL SLIDING WINDOW INSTALLTION DETAIL GUIDLS

STEP 1: REMOVE SASH

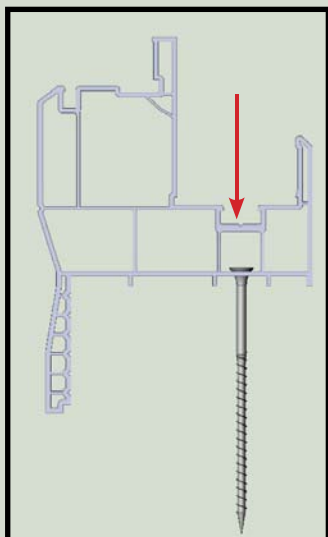


1. Unlock Sash
2. Sliding one third distance of the entire opening.
3. Grasp sash with two hands and lift up.
4. Lift up and swing out sash to remove it from the window.

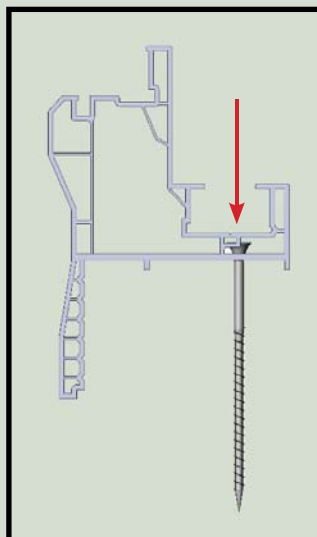
Note: While removing the XO style window movable panel, be aware of the anti-lift design part. The anti-lift design part is using pre-installed on the fix panel top corner about 2-3 inches from the side frame during the manufacture. It is designed for security concern that people cannot break into the building without breaking the glasses. Thus, while removing the movable sash, installer or worker should avoid the anti-lift design part to remove the sash.

Chapter 8 Horizontal Sliding Window

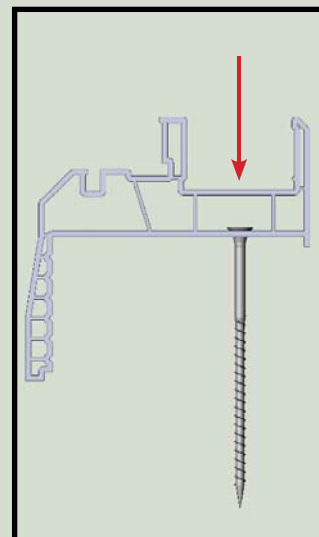
STEP 2: SCREW POSITON



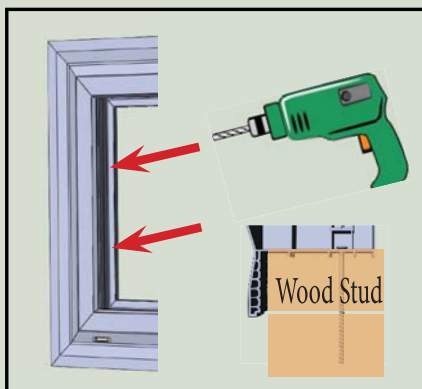
GS Series



Galaxy



Imperial



Pre-Drill Holes into Frame for Screws

Using 10 mm mill bit, locate correct screw location and pre-drill holes for installation screws. Vinyl plugs will cover the holes

Caution: Do not drill all the way through the frame! Do not drill on bottom!

NOTE 1: Before installation, the sash should be removed from the window. The sash should be sliding open 2/3 of maximum to be taken off.

NOTE 2: Pay attention to screw positions. Screws must be mounted in the correct location as shown on the left to avoid leaking and locking problems.

NOTE 3: 3 1/2 inches long screws must be used to screw into the side jambs or headers to properly support the window. No screws should be applied to sills.

Chapter 9 Single Hung / Single Hung Tilt Window

GENERAL INSTALLATION PROCEDURE



for adjustment.

1. Check the operation and sizes of the window before installation. **DO NOT INSTALL** if you find any defects or improper operation. Call our service department for further inspection.

2. Prepare the opening for installation. For replacement window, installer should remove the old window before installation. Make sure there are 1/4" gap per side between the frame and opening

of the fins (Retro-fit or Nail-on), toward the interior of the building, or on the four sides of the frame (Block).

6. Place window into rough opening, making sure fin (Retro-fit or Nail-on) is parallel to the wall, and the entire frame centered to the opening.

7. Apply screws/nails at most 16" apart from each other. Apply screws wherever the screws holes are pre-drilled. Do not apply screws/nails within 3" from the edges of the four corners. Apply shims wherever the gap between the opening jambs and door frames is larger than 1/8" for extra support.

8. Check the level, plumb, and square of the frame. Before tighten the screws. Install the two side covers back onto the frame (DH007 and DH008). Install the panel, make sure the window has a proper operation performance.

9. Apply foams, sealant, and trims wherever are necessary. (See **CHAPTER 15** and **CHAPTER 16**) After the foams and sealant are dry, place the screw caps on the screw holes pre-drilled. Double inspect the operation performance of the window.

3. Remove the movable sash panels from the window. For the Galaxy or GS series Single Hung Tilt Windows, remove the two side covers as well. (DH007 and DH008 for GX or C27 for GS)

4. Pre-drill 3/8" holes on the inner surface of the frame where screw goes. Caution **DO NOT** drill through the entire profile.

5. Apply flashing paper for Nail-on window. Apply a continuous bead of high quality sealant on the back

SINGLE HUNG WINDOW INSTALLTION DETAIL GUIDLS

STEP 1: REMOVE SASH

Imperial Windows feature external balance shafts that must be removed in order to drill mounting holes. Drilling holes with the sash in place is **NOT** recommended.



1. Close sash. Flip open balance retaining clip on both sides.



2. Unlock the sash. Then slowly lift sash to fully open position.



3. Push the sash to one side a little bit. Tilt out sash from one side to remove from frame.



4. Remove counter balance, lower balance and disengage from balance clip retainer.



5. To remove balance, slowly push down the balance and unhook from retaining clip.



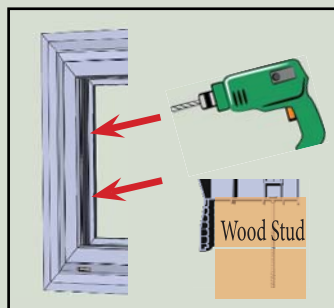
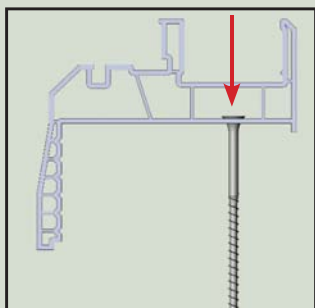
6. Once disengaged remove balance. Tilt out a little. Then lift slowly as shaft will have resistance from springs.



7. To reinstall balance, insert balance hook into the hole on the frame, push down and reengage with retaining clip. After that push the clips close and put the sash back on.

Chapter 9 Single Hung / Single Hung Tilt Window

STEP 2: SCREW POSITIONS



Pre-Drill Holes into Frame for Screws

Using 10 mm mill bit, locate correct screw location and pre-drill holes for installation screws. Vinyl plugs will cover the holes

Caution: Do not drill all the way through the frame! Do not drill on bottom!

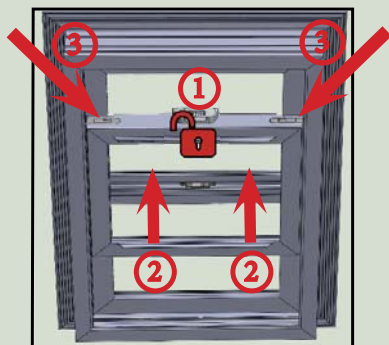
NOTE 1: Before installation, the sash should be removed from the window. The sash should be sliding open 2/3 of maximum to be taken off.

NOTE 2: Pay attention to screw positions. Screws must be mounted in the correct location as shown on the left to avoid leaking and locking problems.

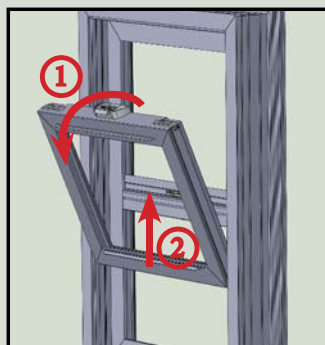
NOTE 3: 3 1/2 inches long screws must be used to screw into the side jambs or headers to properly support the window. No screws should be applied to sills.

SINGLE HUNG TILT WINDOW INSTALLTION DETAIL GUIDS

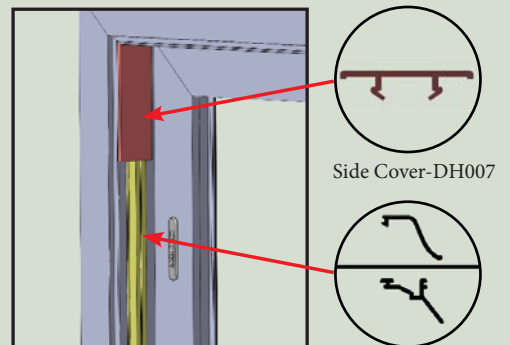
STEP 1: REMOVE SASH AND SIDE COVERS



1. Unlock the sash. Slide sash up. Then Unlock Tilt latches.

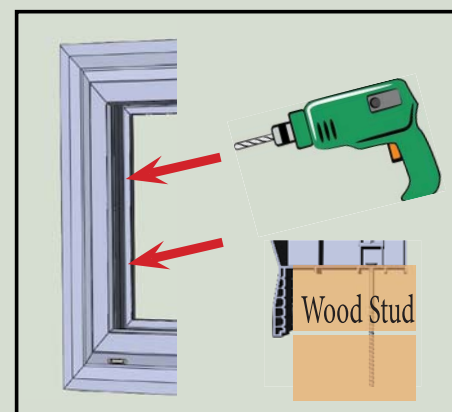
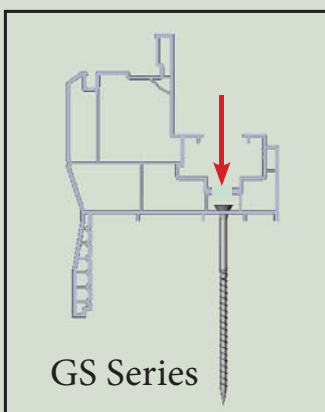
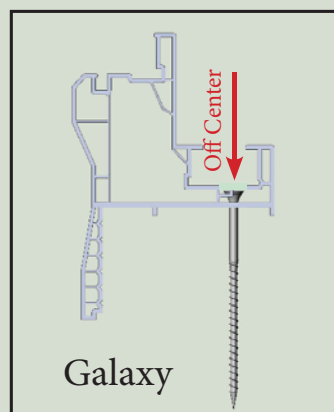


2. Swing out sash 90°. Then lift up at pivots.



3. Remove side covers before drilling holes.

STEP 2: SCREW POSITIONS



Chapter 9 Single Hung / Single Hung Tilt Window

Pre-Drill Holes into Frame for Screws

Using 10 mm mill bit, locate correct screw location and pre-drill holes for installation screws. Vinyl plugs will cover the holes

Caution: Do not drill all the way through the frame! Do not drill on bottom!

NOTE 1: Before installation, the sash should be removed from the window. The sash should be sliding open 2/3 of maximum before tilting open.

NOTE 2: In order to properly place the screws on the frames, the two side covers (Side Cover DH007, and Slide Track DH008 for GX or C27 for GS) need to be removed before installation.

NOTE 3: Pay attention to screw positions. Screws must be mounted in the correct location as shown on the left to avoid leaking problems.

NOTE 4: 3 1/2 inches long screws must be used to screw into the side jambs or headers to properly support the window. No screws should be applied to sills.

Chapter 10 Double Hung Tilt Window

GENERAL INSTALLATION PROCEDURE



1. Check the operation and sizes of the window before installation. **DO NOT INSTALL** if you find any defects or improper operation. Call our service department for further inspection.

2. Prepare the opening for installation. For replacement window, installer should remove the old window before installation. Make sure there are 1/4" gap between the frame and the jamb for adjustment.

3. Remove the two sash panels from the window. Remove the two pieces (Side Cover DH007; and Slide Track DH008 for LXDHT or C27 for GSDHT) for screws.

4. Pre-drill 3/8" holes on the inner surface of the frame where screw goes. Caution **DO NOT** drill through the entire profile.

5. Apply flashing paper for Nail-on window. Apply a continuous bead of high quality sealant on the back of the fins (Retro-fit or Nail-on), toward the interior

of the building, or on the four sides of the frame (Block).

6. Place window into rough opening, making sure fin (Retro-fit or Nail-on) is parallel to the wall, and the entire frame centered to the opening.

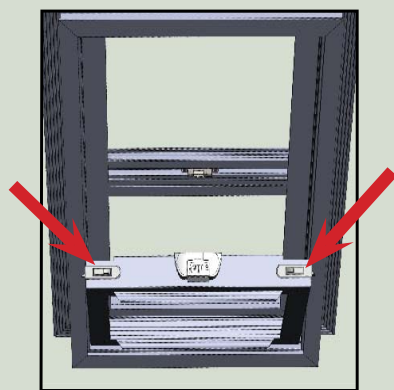
7. Apply screws/nails at most 16" apart from each other. Apply screws wherever the screws holes are pre-drilled. Do not apply screws/nails within 3" from the edges of the four corners. Apply shims wherever the gap between the opening jambs and door frames is larger than 1/8" for extra support.

8. Check the level, plumb, and square of the frame. Before tighten the screws. Install the two side covers back onto the frame (DH007 and DH008). Install the two panels, make sure the window has a proper operation performance.

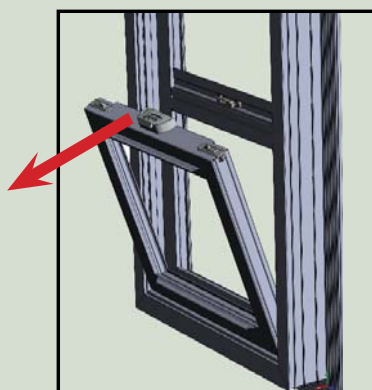
9. Apply foams, sealant, and trims wherever are necessary. (See **CHAPTER 15** and **CHAPTER 16**) After the foams and sealant are dry, place the screw caps on the screw holes pre-drilled. Place the Aluminum/Vinyl Bottom Bar into the same bottom slot with the Fixed Panel.

DOUBLE HUNG TILT WINDOW INSTALLTION DETAIL GUIDLS

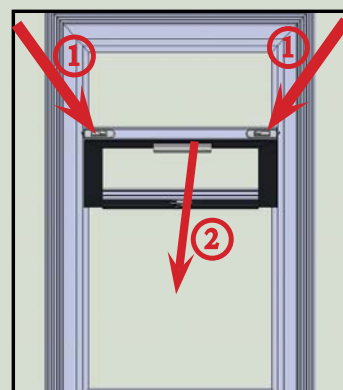
STEP 1: REMOVE SASHES



1. Push in to unlock Tilt latches



2. Swing out sash 90° and lift up at pivots.

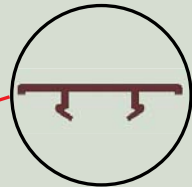
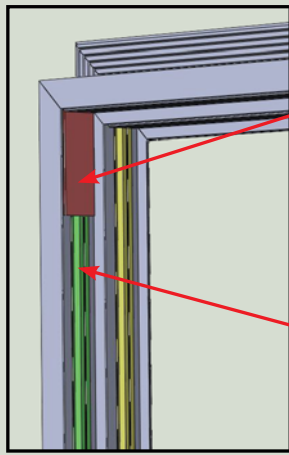


3. Repeat for upper sash.

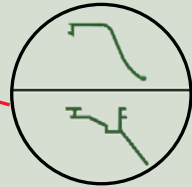
Note: Removed sashed should be proper stored in case of loss or damage. Be caution of the tilt lathes, it may loose after you remove the sash from window. If the tilt latches is lost during the installation, please contact Value Windows and Doors for replacement.

Chapter 10 Double Hung Tilt Window

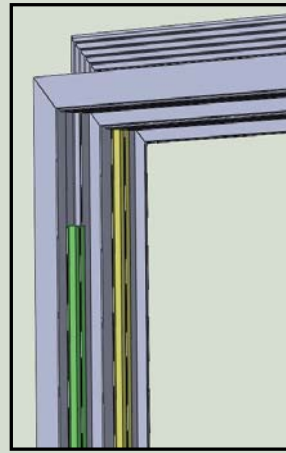
STEP 2: REMOVE SIDE COVERS



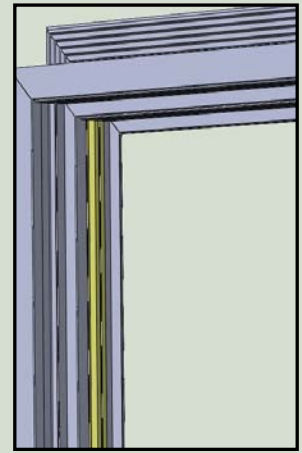
Side Cover-DH007



Slide Track-DH008
(Top) or C27 (Bottom)

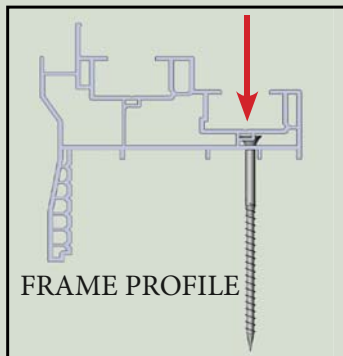


1. Remove the Side Cover

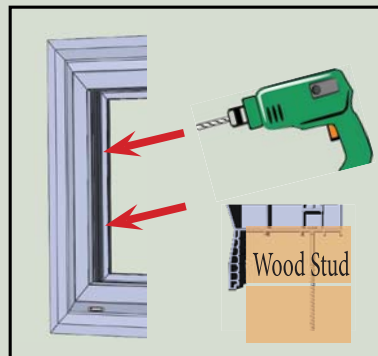


2. Remove the Slide Track

STEP 3: SCREW POSITIONS



FRAME PROFILE



Pre-Drill Holes into Frame for Screws

Using 10 mm mill bit, locate correct screw location and pre-drill holes for installation screws. Vinyl plugs will cover the holes

Caution: Do not drill all the way through the frame!

NOTE 1: Before installation, the two sashes should be removed from the window.

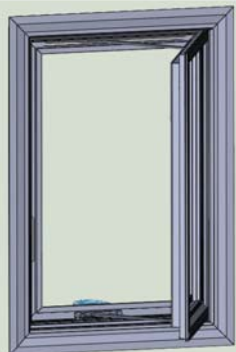
NOTE 2: In order to properly place the screws on the frames, the two side pieces (Side Cover, and Slide Track) need to be removed before installation.

NOTE 3: Pay attention to screw positions. Screws must be mounted in the correct location as shown on the left to avoid leaking problems.

NOTE 4: 3 1/2 inches long screws must be used to screw into the side jambs or headers to properly support the window. No screws should be applied to sills.

Chapter 11 Casement Window

GENERAL INSTALLATION PROCEDURE



1. Check the operation and sizes of the window before installation. **DO NOT INSTALL** if you find any defects or improper operation. Call our service department for further inspection.

2. Prepare the opening for installation. For replacement window, installer should remove the old window before installation. Make sure there are 1/4" gap between the frame and the jamb for adjustment.

3. Pre-drill 3/8" holes on the inner surface of the frame where screw goes. Caution **DO NOT** drill through the entire profile.

4. Apply flashing paper for Nail-on window. Apply a continuous bead of high quality sealant on the back of the fins (Retro-fit or Nail-on), toward the interior of the building, or on the four sides of the frame (Block).

5. Place window into rough opening, making sure fin (Retro-fit or Nail-on) is parallel to the wall, and the entire frame centered to the opening.

6. Apply screws/nails at most 16" apart from each other. Apply screws wherever the screws holes are pre-drilled. Do not apply screws/nails within 3" from the edges of the four corners. Apply shims wherever the gap between the opening jambs and door frames is larger than 1/8" for extra support.

7. Replace the top and bottom short screws with 3 1/2" screws to further provide strength for the sash. Make sure all the (6) six short screws on the handle have been replaced by the 3 1/2" long screws. This adds strength to the frame and will maintain the sash from sagging during operation. **(NOTE: This step is required by Value Windows and Doors Inc. Fail to complete this step during the installation may void warranty.)**

8. Check the level, plumb, and square of the frame. Before tighten the screws, test the performance of the window. Then tighten all the screws to strengthen the window.

9. Apply foams, sealant, and trims wherever are necessary. (See **CHAPTER 15** and **CHAPTER 16**) After the foams and sealant are dry, place the screw caps on the screw holes pre-drilled. Test the performance of the window and make sure the window operate properly.

CASEMENT WINDOW INSTALLTION DETAIL GUIDS

SCREEN REMOVAL



Remove Screen

It is **HIGHLY RECOMMENDED** that you remove the screen before installation. Accidents happen and the screen can easily be torn or broken.

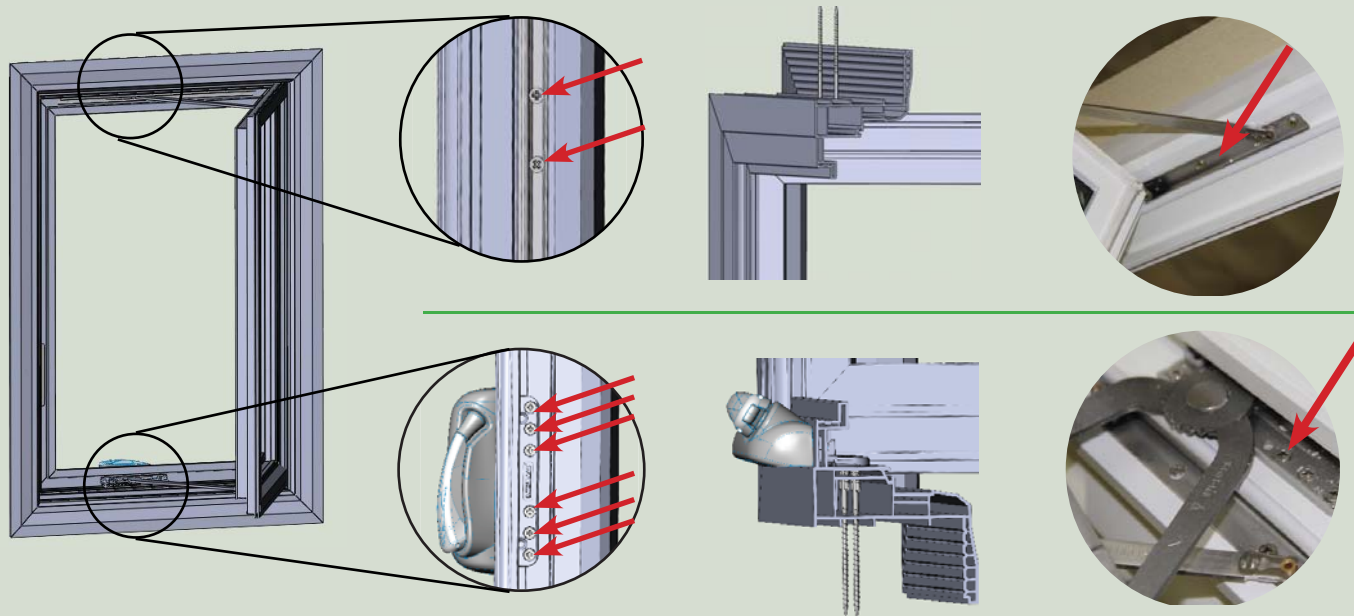
To remove Start with one corner and gently pry towards the center of the screen. The corner lock should disengage (a small flat head screw driver can be used to help with the process), continue with the corner directly below it. Finally pull the screen away from the window and store in a safe place.

Note 1: Do NOT use any sharp tip (screw driver, etc.) to remove the screen.

Note 2: The removed sash should be proper stored in case of loss or damage. If any damage or loss during the installation, please contact Value Windows and Doors for replacement.

Chapter 11 Casement Window

SCREW REPLACEMENT



STEP 1:

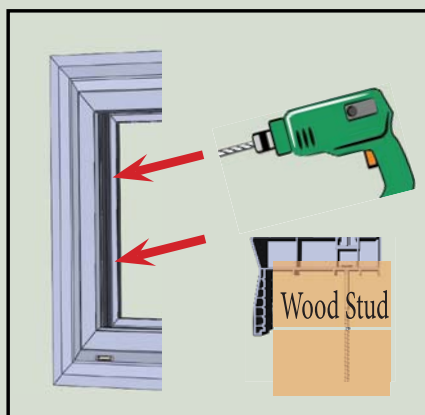
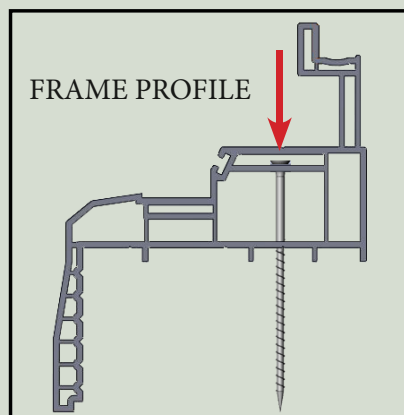
Open sash to 90 degrees to access upper hinge and handle base. Screws should now be visible. Depending on handle type, sash may have to be opened and closed a bit to access all screws.

STEP 2:

Start with lower screws. Replace them one at a time with longer screws. (power drill with screw driver bit strongly recommended) Make sure the screws penetrate into the wood stud. After replacing screws with longer replacements. Test sash for proper operation.

NOTE: Screw Replacements are required by Value Windows and Doors Inc. Fail to complete the step during the installation may void warranty.

SCREW POSITION



Pre-Drill Holes into Frame for Screws

Using 10 mm mill bit, locate correct screw location and pre-drill holes for installation screws. Vinyl plugs will cover the holes

Caution: Do not drill all the way through the frame!

Chapter 12 Bay / Bow Window

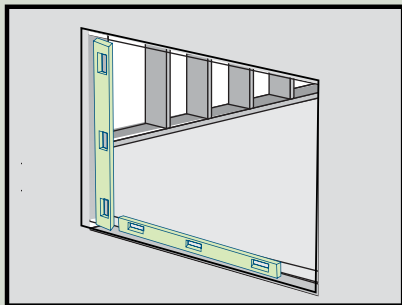
GENERAL INSTALLATION PROCEDURE



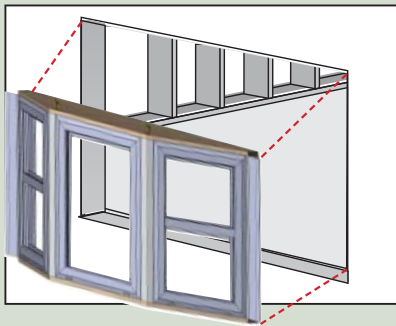
1. Check the operation and sizes of the window before installation. **DO NOT INSTALL** if you find any defects or improper operation. Call our service department for further inspection.
2. Prepare the opening for installation. For replacement window, installer should remove the old window before installation. Make sure there are 1/4" gap between the frame and the jamb for adjustment.
3. Pre-drill 3/8" holes on the inner surface of the frame where screw goes. Caution **DO NOT** drill through the entire profile.
4. Apply flashing paper for Nail-on window. Apply a continuous bead of high quality sealant on the back of the fins (Retro-fit or Nail-on), toward the interior of the building, or on the four sides of the frame (Block).
5. Place window into rough opening, making sure fin (Retro-fit or Nail-on) is parallel to the wall, and the entire frame centered to the opening. Two or more people are required to complete this step. Temporarily support is required until the installation is completed. Screw holes should be pre-drilled before place the window into opening.
6. Apply screws/nails at most 16" apart from each other on the frame. Apply screws wherever the screws holes are pre-drilled. Do not apply screws/nails within 3" from the edges of the four corners. Apply shims wherever the gap between the opening jambs and door frames is larger than 1/8" for extra support. Apply screws on the bottom wood for extra force support.
7. Check the level, plumb, and square of the frame. Before tighten the screws. Install the two panels, make sure the window has a proper operation performance.
8. Add cable support system on the top of window. The accessory is attached with the window. The hook should go into the 2x4 wood in the wall. Tighten the hook thread to increase the tension in the steel wire. Bottom support is required to provide extra support.
9. Apply foams, sealant, and trims wherever are necessary. (See **CHAPTER 15** and **CHAPTER 16**) After the foams and sealant are dry, place the screw caps on the screw holes pre-drilled. Place the Aluminum/Vinyl Bottom Bar into the same bottom slot with the Fixed Panel.

Note: bay and bow windows are not designed for human being to stay on them. People must NOT sit or stand or lay on the bay / bow windows for safety concerns.

CASEMENT WINDOW INSTALLTION DETAIL GUIDS



1. Measure Opening



2. Place Window Into Opening



3. Two or More People Required

For the Bay and Bow window installation, it is extremely important to measure and prepare the opening before installation due to the heft of the window. Double check the size with the opening and make sure the opening is proper for the window. Place the window into the opening, holding the window firmly.

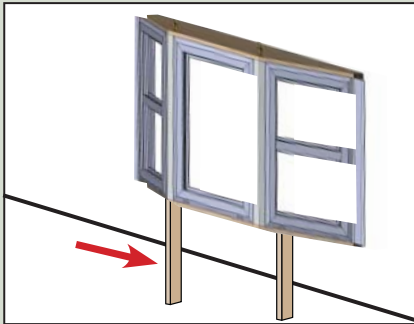
Note: Window should be pre-drilled and countersunk before placing inside the rough opening.

TIP: Use a drain mat on the rough opening sill to protect the window from scratching or denting. After the window fully placed on the opening frame, lightly lift up the window and pull out the mat.

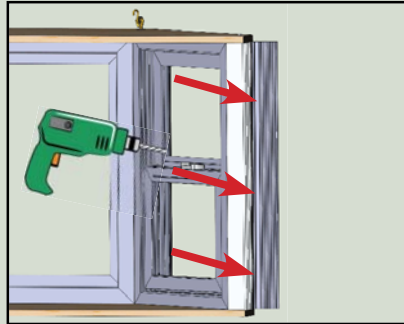
Chapter 12 Bay / Bow Window



WARNING! To avoid injury, two or more people are required for Bay and Bow window installation.



4. Temporary Support



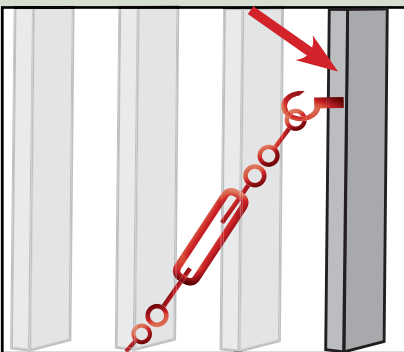
5. Drill Screws on Frame



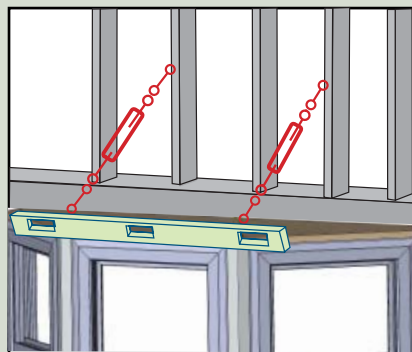
6. Drill Screws on Board

Temporarily support the window until fully installed. 2x4 wood is recommended to be used as the temporary support material. After the temporary support has been applied, one of the installers can start drilling screws on the frame. Do NOT tighten the screw for further adjustment. Use shims on the side jambs for gaps more than 1/4". After the frame screws are applied, pilot holes can be drilled on the wood base and top of bay or bow window. Then drill screws penetrate the wood to secure the window.

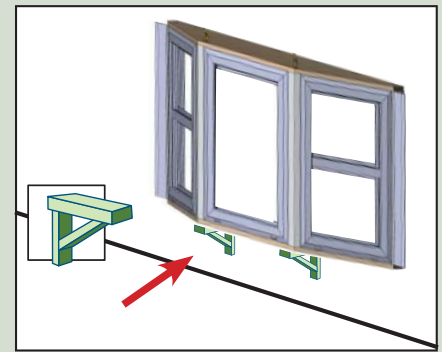
Note: In case of the drilling vibration, loosen the support, one person should keep holding the window for safety.



7. Install Cable system



8. Balance two cable system



9. Install Wood Supports

Cable System is required for bay and bow window installation. The hook on the window top is pre-installed during the manufacturing. While installing the hook on the wall, make sure the hook penetrates into the 2x4 wood. After the two cable system is completed, balance the two cable system to make the top base level. Then tighten all the screws and the cable system to secure the entire window. Then install wood bottom support. Finally, applying caulking and foam following the instruction in **CHAPTER 15** and **CHAPTER 16**.

Note: Hook ONLY on the dry-wall may cause structural issue.

TIP: Wood Support can be constructed out of 4x4 wood or purchased from your local builders store.

Chapter 13 French Swing Door

GENERAL INSTALLATION PROCEDURE



for Nail-on Windows

3. Apply beads of sealant on the sub-floor where the door frame will be set. Apply sill flashing cap for Nail-on or Block style doors. (See **CHAPTER 15** and **CHAPTER 16**)

4. Apply a continuous bead of high quality sealant on the back of the fins (Retro-fit or Nail-on), toward the interior of the building, or on the four sides of the frame (Block). (See **CHAPTER 15** and **CHAPTER 16**)

5. Place door into rough opening, making sure fin (Retro-fit or Nail-on) is parallel to the wall, and the

1. Prepare the opening for installation. For replacement doors, installer should remove the old doors before installation.

2. Check each door rough opening for correct dimensions. Use shims to adjust the opening if needed. Apply flashing paper

entire frame centered to the opening.

6. **CHECK DOOR FOR LEVEL, PLUMB, AND SQUARE:** inside, outside, and diagonal. Screw/nail on the fins (Nail-on) or through the frame (Retro-fit or Block). Caution don't tighten the screws until further adjusting the operation and position.

7. Apply screws/nails at most 16" apart from each other. Do not apply screws/nails within 3" from the corners. Apply shims wherever the gap between the opening jambs and door frames is larger than 1/8" for extra support. Make sure shim behind hinges.

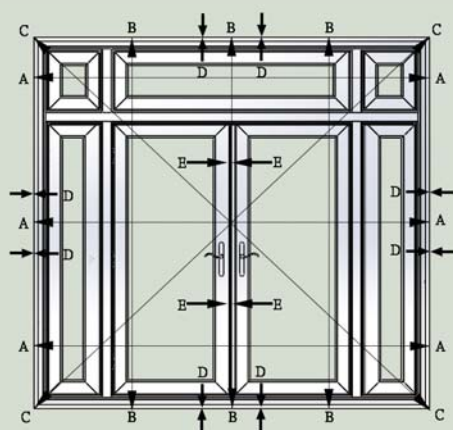
8. Replace the small screws with the 3 1/2" long screws as described in the second page to secure the hinges onto the opening jambs, providing additional force support. Caution do not over tighten, or over shim, causing jamb deflection. **(NOTE: This step is required by Value Windows and Doors Inc. Fail to complete this step during the installation may void warranty.)**

9. Apply sill and jamb flashing as required.

10. Double inspect the door performance by installer(s), make sure the door have a proper operation performance.

FRENCH SWING DOOR INSTALLTION DETAIL GUIDLS

SIZE INSTPECTION



A. Must be equal to the ordering size of the door width with tolerance no more than 1/16".

B. Must be equal to the ordering size of the door height with tolerance no more than 1/16".

C. Diagonal difference shall not be more than 1/8" between each other.

D. Swing-in Style: From the interior, the gap between the top and bottom of the panels and the frame should be $\leq 1/4$ " for proper operation. From the exterior, there shall be no gap between the top and bottom of the panels and the frame for proper water-leaking resistance. Swing-out Style: From the exterior, the gap between the top and bottom of the panels and the frame should be $\leq 1/4$ " for proper operation of the door. From the interior,

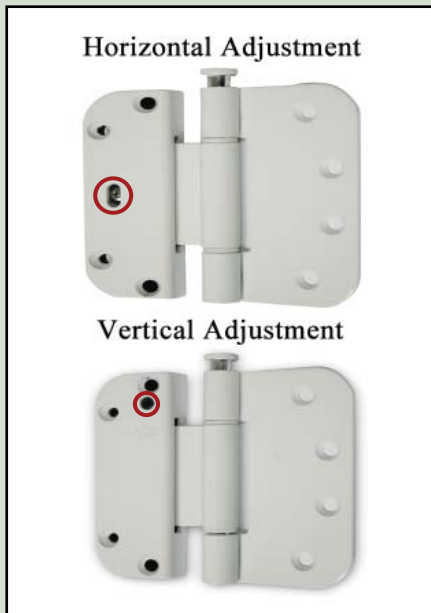
there shall be no the gap between the top and bottom of the door panels and the frame for proper water-leaking resistance.

E. Swing-in Style and Swing-out Style: The gap between the panels shall be $\leq 3/16$ " for proper operation of the door.

Note: For those which have side windows, please also check the diagonal differences. The differences shall not more than 1/8".

Chapter 13 French Swing Door

ADJUSTMENT STEPS



1. Order of hinge adjustment: first vertical, then horizontal.
2. The vertical adjustable hinge is in the middle, and the horizontal adjustable hinges are on the top and bottom for the three-hinge panel. For those extra-large panel which has more than three hinges, the vertical adjustable hinge shall always in the middle. The profiles of the hinges are shown in the picture on the left.
3. Before the vertical adjustment, the horizontal adjustable hinges shall always be loosen for proper adjustment.
4. Use a 3/32" allen wrench to turn the adjusting screws circled in the picture to adjust the hinges.
5. The vertical adjustable hinges can adjust the panel position in vertical direction; the horizontal adjustable hinges can adjust the panel position in horizontal direction.

6. When adjusting the horizontal hinges, DO NOT tighten the adjusting screws until all horizontal adjustable hinges have been adjusted.
7. After adjustment completed, make sure the gap between two panes and the gap between the panel and frames are within the tolerance of Manufacturer Requirement.

SPECIAL ADJUSTMENT



For some of the new Vertical Adjustable hinges, there is another little set screw as shown in the picture on the left.

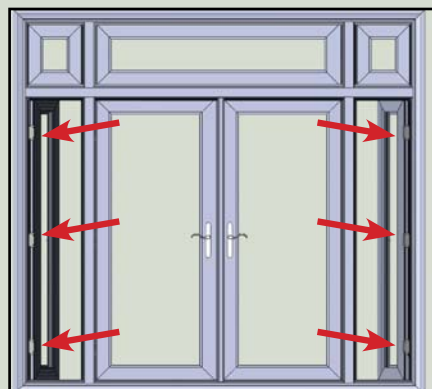
Once the installation is completed, use a rubber mallet to hit the shaft into the hinge all the way down and make sure the groove on the shaft align with the set screw hole.

Then use a 1/16 allen wrench to assemble the set screw.

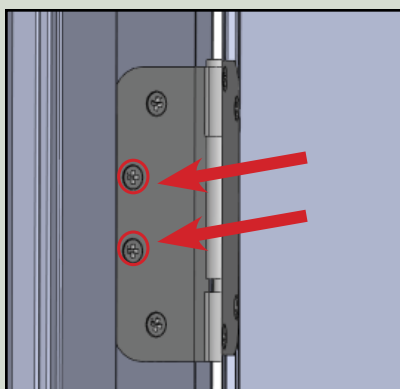
Note: Please use the removable thread locker (glue) to lock the set screw, process refer to manufacture's instruction.

Chapter 13 French Swing Door

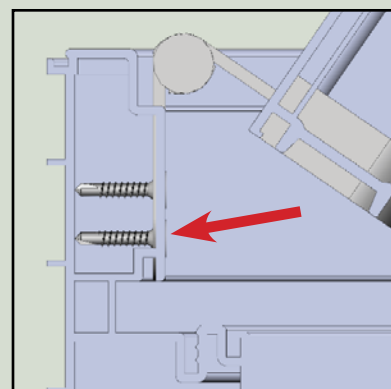
HINGE SCREW REPLACEMENT



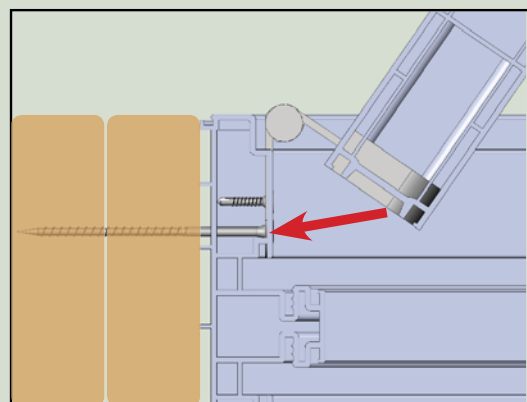
A. Hinge Positions



B. Screw Positions on Hinge



**C. Screw Before Replacement
Top View**



D. Screw After Replacement Top View

SCREW REPLACEMENT DESCRIPTIONS

A. Outer frame hinges require additional support. To avoid sagging of door panels, installer must use longer screws to replace the short one for proper installation.

B. THE TWO CENTER SCREWS ON THE OUTER FRAME HINGES MUST BE REPLACED.

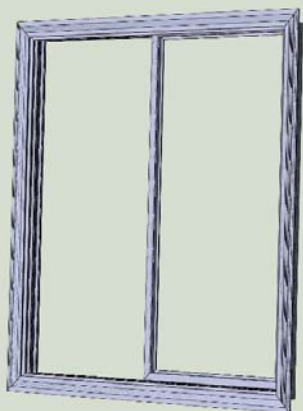
C. Doors ship with temporary 3/4" screws installed into outer hinges. These **MUST BE REPLACED** with 3 1/2" long screws(not supplied).

D. 3 1/2" long screws must be screwed into wood door frame studs to provide proper support for French patio door. Incorrect screws may cause door panel sagging.

IMPORTANT: Hinge screw replacement is required by Value Windows and Doors Inc. Fail to complete this step during the installation may void warranty.

Chapter 14 Two Panel Sliding Patio Door

GENERAL INSTALLATION PROCEDURE



1. Prepare the opening for installation. For replacement doors, installer should remove the old doors before installation.

2. Check the accessory packages to see if there is any missing part. If anything is missing due to the varieties and quantities listed in the fol-

lowing section *ACCESSORY INSPECTION*, please contact the our Service Department immediately.

3. Check each door rough opening for correct dimensions. Use shims to adjust the opening if needed. Apply flashing paper for Nail-on Windows

4. Apply beads of sealant on the sub-floor where the door frame will be set. Apply sill flashing cap for Nail-on or Block style doors if necessary. Apply a continuous bead of high quality sealant on the back of the fins (Retro-fit or Nail-on), toward the interior of the building, or on the four sides of the frame (Block).

5. Place door frame into rough opening, making sure fin (Retro-fit or Nail-on) is parallel to the wall, and the entire frame centered to the opening.

6. Pre -drill 1/2" holes on the inner surface of the frame where screw goes. Caution DO NOT drill through the entire profile. Screw/nail on the fins (Nail-on) or through the frame (Retro-fit or Block). Caution DO NOT tighten the screws until further adjustment or the operation and position.

7. Apply screws/nails at most 16" apart from each other. Do not apply screws/nails within 3" from the edges of the four corners. Apply shims wherever the gap between the opening jambs and door frames is larger than 1/8" for extra support. Make sure shim

behind hinges.

8. Install the Interlock Side cover for both fixed panel and movable panel (apply to GS and Galaxy Wide Sash). *Note: Install the interlock Side Cover on the Fixed panel only for the Galaxy Narrow Sash.* Place the Rise Bar (FE 8023) in the frame slot, then place the fixed door panel on the Rise Bar, and slide to one end. Place the second movable panel into the other slot. Make sure the movable panel is on the correct side due to the ordering request from the outside viewing (XO or OX). (See next page)

9. Install the lock keeper in the frame. Adjusting the position align with the lock on the movable panel. Apply screws on the lock keeper. Caution DO NOT tighten the screws for further adjustment.

10. Adjust the positions (horizontal and vertical) of both panels, make sure the lock operate properly and the weather strips seal the door completely. Note: adjust the rollers to adjust the vertical position of the panel.

11. Install Screen Door lock on the frame. Adjust the position to make sure the screen door operate properly.

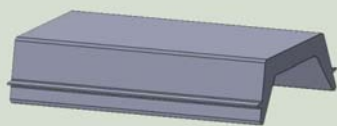
12. Apply foams, sealant, and trims wherever are necessary. (See **CHAPTER 15** and **CHAPTER 16**) After the foams and sealant are dry, place the screw caps on the screw holes pre-drilled. Place the Aluminum/Vinyl Bottom Bar into the same bottom slot with the Fixed Panel. Place the Jamb Covers (FE 8019) as required.

13. Double inspect the door performance by installer(s), make sure the door have a proper operation performance. Tighten all the screws to secure the door. Apply at least three screws on the frame to secure the fixed panel for security purpose. (See next page).

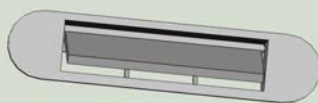
Chapter 14 Two Panel Sliding Patio Door

SLIDING PATIO DOOR INSTALLTION DETAIL GUIDS

ACCESSORY INSPECTION



Rubber Stop (Qty. 2): Pre-set in the four corners of the frame



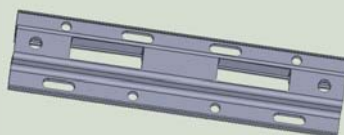
Weep Hole Cover (Qty. 2): In the sticky envelope



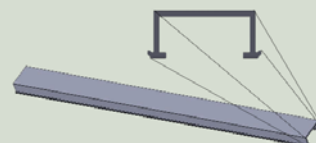
Round Head Screw (Qty. 10): In the sticky envelope



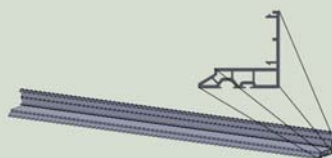
1-inch Screw (Qty. 16): In the sticky envelope



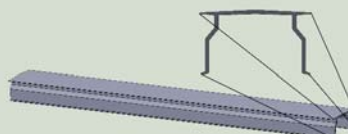
Lock Keeper (Qty. 1): In the sticky envelope



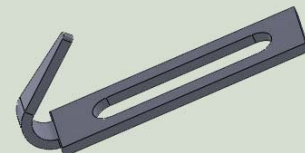
Rise Bar FE 8023 (Qty. 2): Wrapped On the Frame



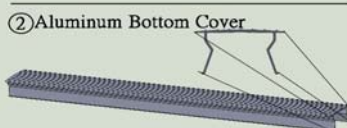
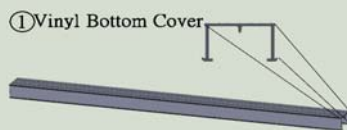
Interlock Side Cover (Qty. 1~2): Wrapped on the Frame



Jamb Cover FE8019 (Qty. 3): Wrapped on the Frame, two long and one short.



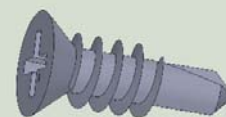
Screen Door Hook (Qty. 1): Clipped on Screen Door Latch



1. Vinyl Bottom Bar for Galaxy Series (Qty. 1)
2. Aluminum Bottom Bar for GS Series (Qty. 1): Wrapped on the Frame



Large Screw Cap (Qty. 10): In the sticky envelope



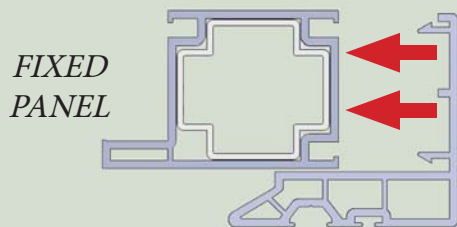
0.5-inch Screw (Qty. 2): Clipped on the Screen Door Latch

Note: If anything is missing due to the varieties and quantities listed in the following section *ACCESSORY INSPECTION*, please contact the our Service Department immediately.

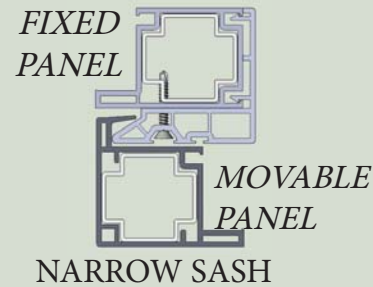
Chapter 14 Two Panel Sliding Patio Door

ACCESSORY INSPECTION

NARROW SASH

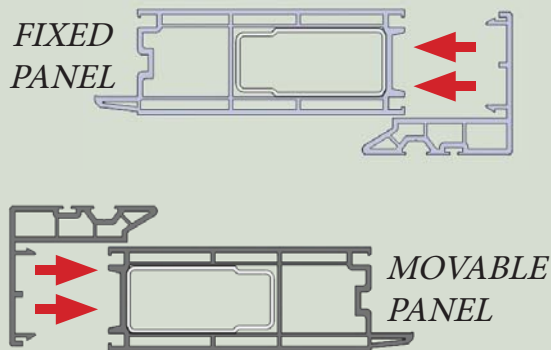


Step 1: Clip in the Cap

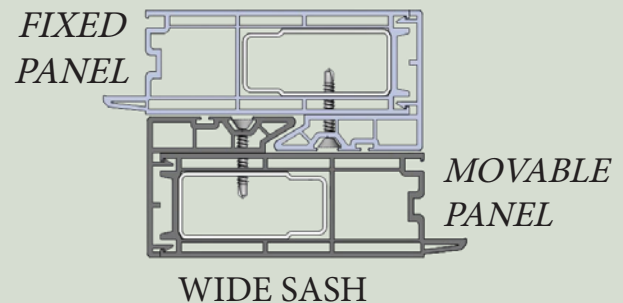


Step 2: Secure with Screw

WIDE SASH



Step 1: Clip in the Cap



Step 2: Secure with Screw

Before installation, set up the interlock cover on the panel as required.

For the Galaxy Narrow Sash, the interlock cover only applies to the fixed panel.

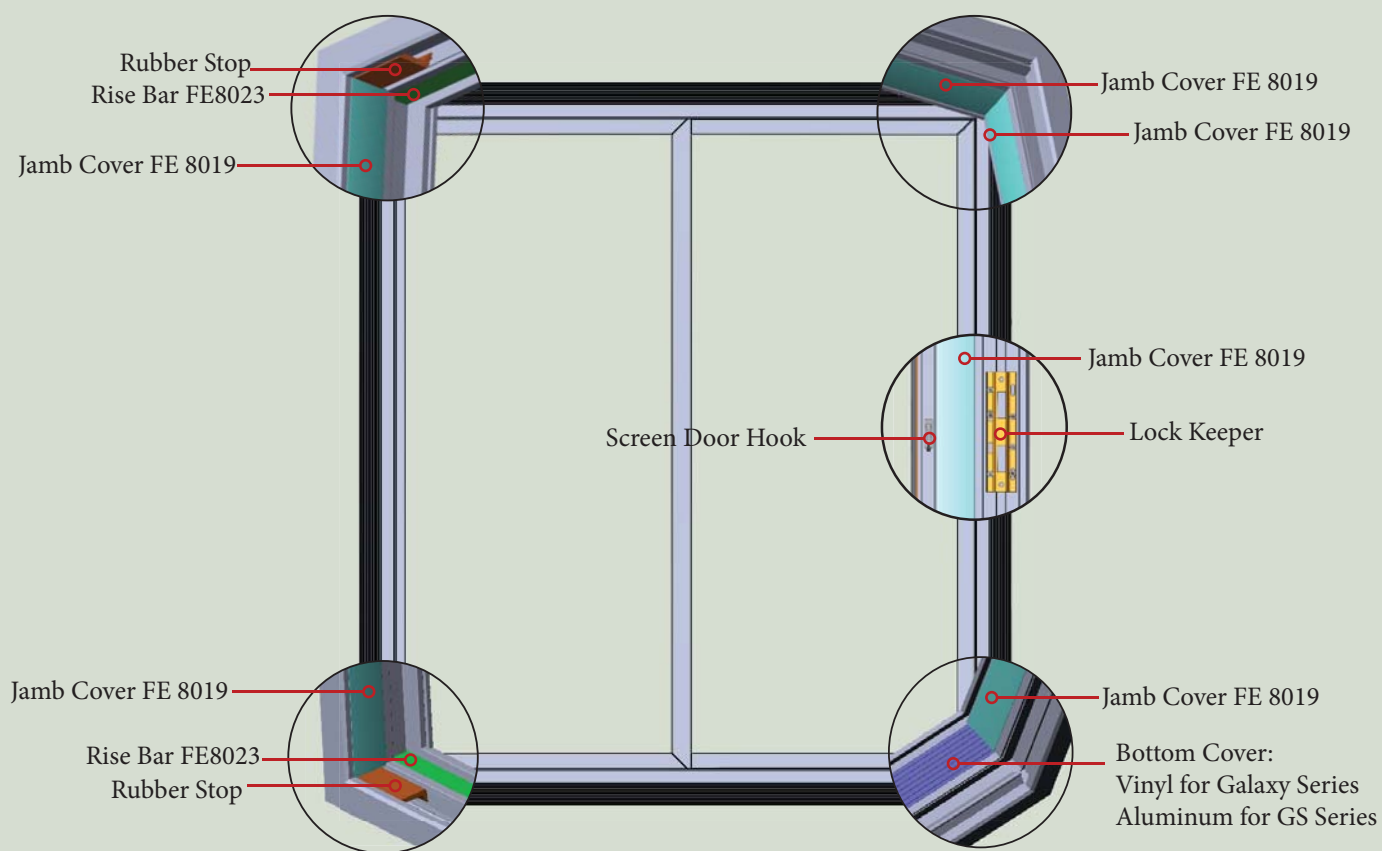
For the Galaxy Wide Sash and/or GS (Wide Sash as well), the interlock cover shall apply to both fixed panel and movable panel. Make sure the interlock cover match each other and operate properly after installation.

Double check if the movable panel is on the CORRECT side (XO or OX).

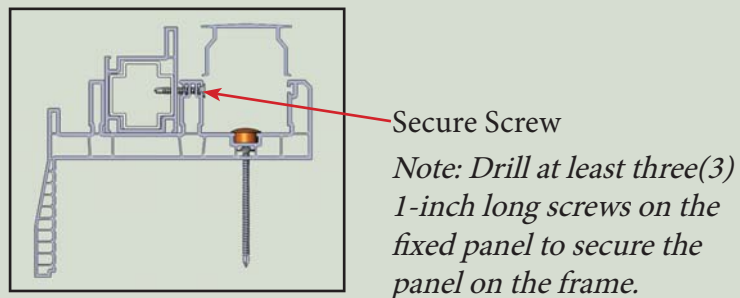
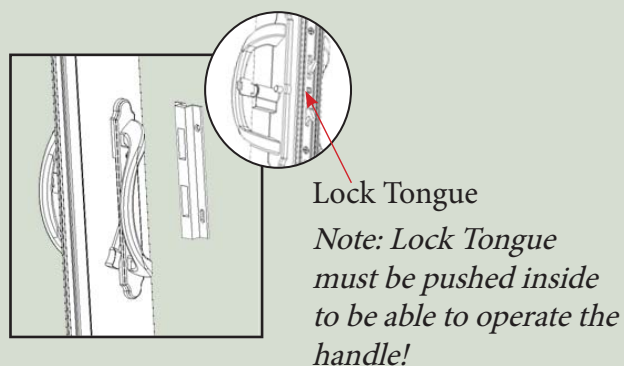
Apply at least three 1-inch Screws evenly on the interlock cover to strengthen the connection with the sash.

Chapter 14 Two Panel Sliding Patio Door

ACCESSORY SETUP



OPERATION ADJUSTMENT



Chapter 15 Silicone Caulking Instruction Guide

SEALANT GUIDE

Value offers different sealants for each application. Please view our sealant guide to determine which sealant is correct for your application.

OPTION #1



THE EXTERIOR SEALANT (SEAL ON THE OUTSIDE EDGE OF FINS)

BRAND: LOCTITE

TYPE: POLYSEAMSEAL, RAIN GUARD, EXTERIOR SEALANT

ITEM #: 1508197

DESCRIPTION: Loctite Polyseamseal Rain Guard is a high performance sealant designed for exterior door, window and siding applications. The patented Rain Guard technology allows uncured sealant to resist washout due to early rain exposure. Loctite Polyseamseal Rain Guard is an acrylic based formulation with superior adhesion, flexibility and durability. Cures to a high gloss sheen, is paintable and also mold and mildew resistant.



- Use The Loctite Polyseamseal Rain Guard Exterior Sealant For The Outside Frame Edges.
- Make Sure Clean Up The Edges, Both The Frame And The Walls, Before Use The Sealant. Use a wet finger for smooth seams
- More Detail See The Instruction Manual From Loctite.

OPTION #2



THE INTERIOR SEALANT (SEAL ON THE INSIDE EDGE OF FRAMES)

BRAND: HDX

TYPE: 10-OZ. LATEX PLUS SILICONE CAULK

ITEM #: 156943

DESCRIPTION: HDX Latex Plus Caulk is a better quality siliconized acrylic latex caulk designed for general purpose sealing for interior or exterior applications. Use for caulking areas that may experience some slight movement and may or may not be painted over. Dries to the touch in 30 minutes and is fully cured in 5 hours.



- Use The HDX Interior Silicone Sealant For The Interior Frame Edges.
- Make Sure Clean Up The Fins And Walls Before Using The Sealant.
- More Detail See The Instruction Manual From CRL.

Chapter 15 Silicone Caulking Instruction Guide

OPTION #3



THE INTERIOR SEALANT (BETWEEN WALL AND WINDOW FINIS)

BRAND: PINNACLE

TYPE: SILICONIZED ACRYLIC SEALANT

ITEM #: n/a

DESCRIPTION: Pinnacle siliconized acrylic sealant is a premium quality acrylic sealant for interior and exterior use.



- Use The Pinnacle Interior Silicone Sealant Between The Walls And Frame Fins.
- Make Sure Clean Up The Fins And Walls Before Using The Sealant.
- More Detail See The Instruction Manual From Crl

OPTION #4

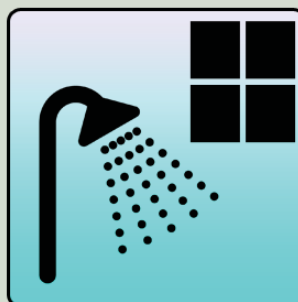


THE INTERIOR SEALANT (BATHROOM AND KITCHEN USE ONLY)

BRAND: CRL

TYPE: SILICONE Sealant

ITEM #: 33s



Bathroom Use



Kitchen Use

CAULKING TIPS

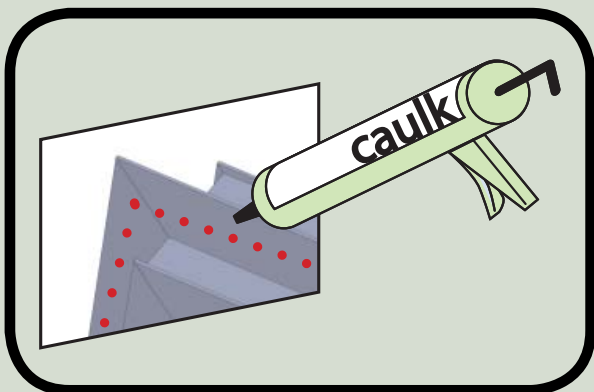


Clean the Surface

Remove old caulk, dirt, and loose particles with a caulk-removing tool, or a wire brush for concrete and masonry applications, and wipe clean with a cloth. Apply masking tape to either side of the joint to create a straight edge.

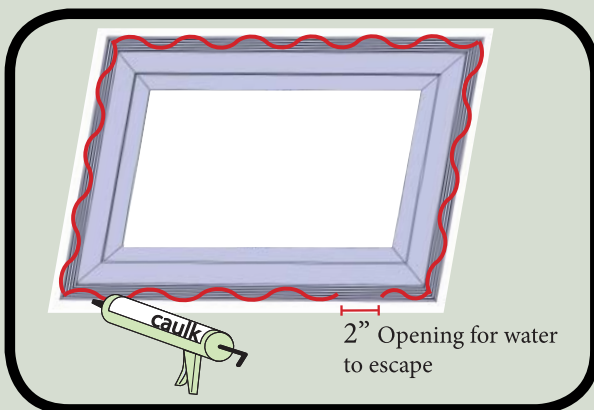
Chapter 15 Silicone Caulking Instruction Guide

CAULKING ON DIFFERENT FINs



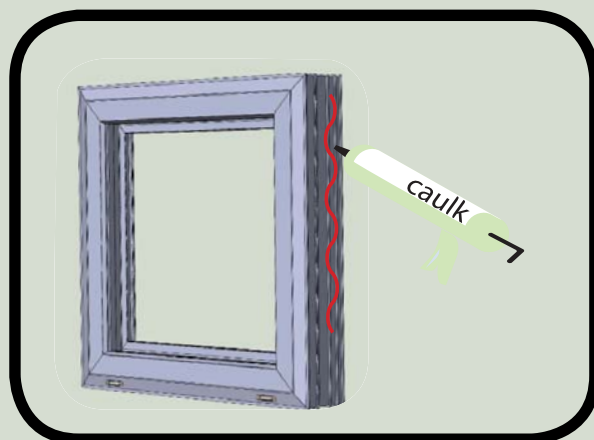
RETRO-FIT STYLE

Apply a continuous bead of silicone caulk behind the nail-on fins facing the wall. The bead is about 3/8" diameter, and the gap is about 1" between each other.



RETRO-FIT STYLE

For the retro-fit style window and door, it is required to use caulking under the fins. When applying caulking, it is important to leave a 2" long opening for drainage concern.



BLOCK STYLE

Before placing the block style window or door to the opening, caulk is necessary to be applied to the perimeter of the frame shown on the left. If the window or door is not exposed to elements such as under a large overhang or porch/patio roof, this step may be skipped.



EXTERIOR



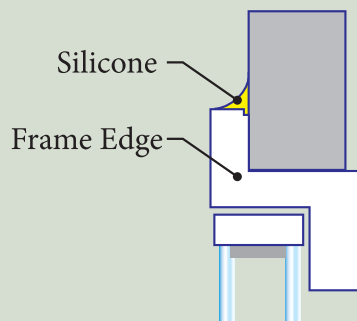
INTERIOR

EDGE CAULKING

FOR ALL THREE DIFFERENT STYLES OF FRAMES, THE INTERIOR AND EXTERIOR FRAME EDGE CAULKING MUST BE APPLIED AFTER THE INSTALLATION!

Chapter 15 Silicone Caulking Instruction Guide

SILICONE FINGER TOUCH



Smooth the Caulk Seal

Silicone should be smoothed with a wet finger to ensure a smooth seam as shown. Use your finger or a wet caulk-smoothing tool within two to five minutes of application.

CLUCKING TIPS

Prepare the Tube and Seal

Cut the nozzle to desired bead size. Pierce the inner seal with a stiff wire or other similar object. Insert cartridge into caulking gun. When using a caulk gun, squeeze with even, consistent pressure to control the rate at which the caulk leaves the tube.

Store the Tube and Clean

Squeeze the caulk until it's barely coming out of the tube. Replace the cap, or use a nail in the tube opening. Wipe hands with a dry cloth before washing with soap and water. To clean the area around the caulk, use mineral spirits for silicone caulk, and soap and water for acrylic.

Chapter 16 Expand Form and Flat Trim Usage Guide

EXPANDING FORM USAGE GUIDE



Directions:

- This product is extremely sticky and bonds to skin quickly. Wear gloves, eye protection and work cloth during application.
- Surface should be free from dirt, oil and grease. For best results, apply foam in temperature between 40° - 105°F.
- Shake can vigorously for 30 seconds before and between uses.
- For gun type, don't over tighten when attach can to gun applicator. Dispense foam with can upside down. Slowly press trigger and test bead size on

experimental surface.

- For straw type, screw threaded end of straw assembly press securely onto valve.



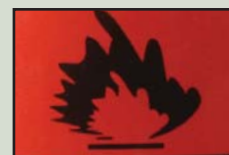
Dispense slowly.

- Fill cavity 25% full to allow for expansion. Foam sealant is tack free in approximately 10 minutes.

Excess cured foam can be trimmed in 30 minutes.

- Use acetone to remove excess uncured foam to clean nozzle and valve. Cured foam must be mechanically removed.
- Cured foam can be trimmed, painted, sanded, plastered,

grouted and caulked.

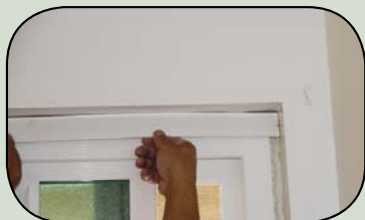


Caution:

- Keep out of the reach of children.
- Keep away from ignition. Don't puncture, expose to heat or store at temperature exceeding 120°F.
- Don't spray on a flame or any incandescent material.
- Contains MDI monomer, use in a well ventilated area or with proper respiratory protection.
- Don't leave or store in auto or expose to direct sunlight.
- Uncured foam is sticky and maybe irritating to skin and eyes. In case of eye contact, flush eye with water for 15 minutes and consult with physician immediately.

Chapter 16 Expand Form and Flat Trim Usage Guide

FLAT TRIM USAGE GUIDE



- Installing flat trim will give the window a finished look by covering any holes or gaps left by the window installation.
- Measure and cut flat trim to length.
- Cut trim using vinyl shears.
- Test fit trim and make any adjustments.
- Remove backing and press firmly into place
- Flat trim will conceal where expanding foam was used to seal around window.
- Flat trim features a self adhesive backing that will glue into place.

Note: Different trims can apply to Value products per request of customer. Ask Value Windows and Doors for different trim doability.

Appendix

TOOL RECOMMENDED

- Utility Knife
- Prybar
- Sealant Gun
- Hammer
- Drill
- Tape Measure
- Level
- Screw drivers(standard, phillips
- Putty Knife
- Vinyl Snips
- Carpenter's Square
- Foam Gun





Value Windows & Doors
Manufacturer of High Quality Windows & Doors

Duarte Offices

1830 Flower Ave Duarte, CA 91010

Tel: (626) 962-7568 - Fax: (626) 962-0321

Contact us @ e-mail: info@valuelowindowsdoors.com

www.ValueWindowsDoors.com

