Congratulations! You have just purchased one of the many fine Andersen® products. Proper assembly, installation and maintenance are essential if the benefits of your Andersen product are to be fully attained. Therefore, please read and follow this instruction guide completely. If your abilities do not match this procedure’s requirements, contact an experienced contractor. You may direct any questions about this or other products to your local Andersen dealer, found in the Yellow Pages under “Windows” or call Andersen WindowCare® service center at 1-888-888-7020 Monday through Friday, 7 a.m. to 7 p.m. Central Time and Saturday, 8 a.m. to 4 p.m. Central Time. Thank you for choosing Andersen.

**Important Safety, Assembly, and Installation Information**

Every assembly and installation is different (windloads, structural support, etc.). Andersen strongly recommends consultation with an Andersen supplier or an experienced contractor, architect, or structural engineer prior to the assembly and installation of any Andersen product. Andersen has no responsibility in regard to the post-manufactured assembly and installation of Andersen products.

**WARNING**

- Use caution when working at elevated heights and around unit openings. Follow manufacturers’ instructions for ladders and/or scaffolding. Failure to do so may result in injury or death.
- Follow manufacturers’ instructions for hand or power tools. Always wear safety glasses. Failure to do so may result in injury and/or product damage.
- Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry and install window and door products to avoid injury and/or product damage.
- Unless specifically ordered, Andersen windows and doors are not equipped with safety glass, and if broken, could fragment causing injury. Many laws and building codes require safety glass in locations adjacent to or near doors. Andersen windows and doors are available with safety glass that may reduce the likelihood of injury when broken. Information on safety glass is available from your local Andersen dealer.

**CAUTION**

- Factory supplied Head Flashing and Installation Flanges **DO NOT** take the place of standard window and door flashing. Unit must be properly flashed and sealed with silicone for protection against water and air infiltration. Use non-reflective flashings.
- Do not apply any type of film to glass. Thermal stress conditions resulting in glass damage could occur.
- Use of movable insulating materials such as window coverings, shutters, and other shading devices may damage glass. In addition, excessive condensation may result causing deterioration of windows and doors.
**WARNING**

**DO NOT** carry door unit horizontally, interior side down. Door panels may swing open causing product damage and/or severe injury.

**WARNING**

Metal fasteners and other hardware components may corrode when exposed to preservative treated and fire-retardant treated lumber. Obtain and use the appropriate metal fasteners and hardware as called out by the installation guide to fasten unit to any rough opening made from pressure treated and fire-retardant treated lumber. Failure to use the appropriate materials for the installation may cause a failure resulting in injury, property or product damage.

**CAUTION**

Follow instructions from foam, sealant and flashing manufacturer regarding material application and compatibility with this product.

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**Parts Included**

- (1) Installation Guide
- (1) Care, Finish & Maintenance Guide
- (1) Door Unit
- (1) Screw Pack
- (1) Multi-Point Lock Set (optional)

**Tools Needed**

- Safety Glasses
- Tape Measure
- Level
- Pry Bar
- Caulk Gun
- Hammer
- Putty Knife
- Flat Blade Screwdriver
- Drill/Driver
- Staple Gun
- 3/16” Drill Bit

**Supplies Needed**

- Formable Self-adhering Sill Flashing
- Flashing
- House Wrap Tape
- Drip Cap (full width)
- Shims (waterproof)
- Foam Backer Rod
- Staples
- Low Expanding Foam
- Sealant
- Fasteners (Stainless Steel, if required)
  - 3” Finish Nails
  - #10 x 1 ½” Screws
  - #10 x 2 ½” Screws
  - 1 ½” Finish Nails

**Screw Pack Contains**

- (12-28) #10 x 1 ¾” Stainless Steel Screws
- (12-22) #10 x 3” Flat Head Screws
  (Color Matched Screws are for Hinges)
- (3-7) Sill Clip
- (1) Temporary Lock Handle
  (1) Hex Wrench
  (For Adjustable Hinges)
Glass

**WARNING**

Suction grips will not hold if placed over seam of film to lift or move unit. Unit will fall causing damage or injury.

**CAUTION**

Sealants will damage exterior coating on glass.

Film Removal

**WARNING**

Static created when removing film can ignite flammable materials or cause a shock.

See warning label on glass.

**WARNING**

Dispose of film immediately after removal. Film may pose suffocation hazard to children.

- Laminated safety glass is not standard and must be special ordered. Check local building codes.
- Leave protective film in place until after construction is finished. Leave (NFRC) performance label in place until final inspection.
- Argon gas blend not available with high altitude glass.

- Remove protective film from seam or corner using plastic scraper if needed.
- Remove protective film within nine months of installation and when temperature is above 32° F.
Finishing

**CAUTION**

Finish wood surfaces immediately after installation. Unfinished wood will deteriorate, discolor, and/or may bow and split. Do not stain or paint weatherstrip, vinyl, glass, or hardware. Product damage may occur.

- Apply interior casing to complete installation.
- Finish all hidden wood surfaces.
- Do not overload brush with stain/paint when finishing. Finish may wick between glass stop/grille on glass.
- Read and follow “Care, Finish, and Maintenance Guide”.
- **Read and follow finishing product instructions and warnings on finishing materials.**

Cleaning

**CAUTION**

Acid solutions used for cleaning masonry or concrete will damage glass, fasteners, hardware, and metal flashing. Protect unit and follow cleaning product instructions carefully. If acid contacts unit, wash all surfaces with water immediately.

- Clean glass using liquid glass cleaner.
- Clean exterior frame, sash and insect screens using mild detergent and water with a soft cloth or brush.
- For hard to clean areas use a nonabrasive cleaner, alcohol-and-water or ammonia-and-water.

**CAUTION**

A abrasive cleaners will damage glass surface.

Metal razor blades can damage glass surface and exterior coating.

Maintenance

- Do not apply any type of film to insulated glass. Thermal stress and glass damage can result. Shading devices (insulated covers, shutters, etc.) may also cause thermal stress and condensation damage.
- For more information contact your local Andersen dealer or visit www.andersenwindows.com.
1. Unit Preparation

**WARNING**
Door panels must be secured in closed position until unit is installed. **DO NOT** remove Steel Locking Brackets or Gussets until unit is secured in opening. Failure to do so may result in door panel inadvertently opening causing injury, property, and/or product damage.

**CAUTION**
Gussets keep door unit square until installed. **DO NOT** remove Gussets until unit is secured in opening. Failure to do so may effect product performance.

- Remove unit from packaging.
- Remove loose items such as interior trim or drip cap (full width). Extension jambs are factory applied unless ordered loose.
- Remove shipping braces, if needed, being careful not to damage unit. **DO NOT** remove Steel Locking Brackets or Gussets from the interior side of unit until secured in rough opening.
- Remove packing handles and discard.
- Insert temporary lock handle in lower hole and turn to engage multi point locks. Insert flat blade screwdriver in upper lock hole and turn to lock door.
- Place unit exterior side up on support boards (to protect Hinges) on a clean, flat work surface.
2. Prepare Rough Opening

- Width of rough opening should be ½" more than unit width. Height of rough opening should be ½" more than unit height. Allow for flashing thickness.
- Check sill plate for level. Sill must be level. Shim if needed.
- Check rough opening for plumb and level. If rough opening is not plumb or level, correct as needed.
- Check rough opening for square by measuring diagonally across, upper left to lower right and upper right to lower left corner. If measurements are within 1/8", opening is square. If rough opening is not square, correct as needed.
- Cut house wrap along sill and head of rough opening.
- Cut house wrap vertically in center of rough opening from head to sill.
2. Prepare Rough Opening (continued)

- Fold house wrap around to inside, trim excess and staple.
- Cut top corners of house wrap on 45° angles the width of head flashing. For arch top and Springline™ units, cut top corners on 45° angle for 8” to 10” then cut straight up until the cuts equal the width of the head flashing above the unit. See drawing.
- Fold flap up and temporarily tape in position.
- Apply sill flashing to rough opening sill. Keep sill flashing 6” above sill at sides and 2” to 3” onto house wrap around exterior.
- Secure corners of sill flashing by stapling, taping or nailing in position. Stapling shown in drawing.
2. Prepare Rough Opening (continued)

- Apply three, continuous \( \frac{3}{8} \)" beads of sealant along sill plate of rough opening full length. Space beads \( \frac{1}{4} \), \( 1 \frac{1}{4} \), and \( 4 \frac{1}{4} \) from exterior edge.
- Apply a liberal amount of sealant in bottom corners.
- Apply a continuous \( \frac{3}{8} \)" bead of sealant, around exterior sides and top of rough opening, \( \frac{1}{2} \)" from rough opening edge.

3. Position Installation Clips

- Rotate *Installation Clips* 90° into position around frame, as shown, before placing unit into rough opening.
- For Springline™ and arch units, relocate *Installation Clips* on radius head jamb for securing to building framing as needed.
4. Install Unit

**WARNING**

Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry and install window and door products to avoid injury and/or product damage.

**WARNING**

Door panels must be kept secured in closed position. Unsecured door panels may swing open causing injury.

**WARNING**

Support unit in rough opening at all times until secured. Failure to do so may result in door falling out causing injury, property, and/or product damage.

- Lift and center unit in rough opening, set sill of unit onto sealant, from the exterior.
- Push top in until brickmould is firmly pressed into sealant around perimeter of rough opening. Brickmould must be flush with exterior of opening.
- Insert shims between rough opening and door unit, directly behind Hinges and Lock Receivers and beside each Installation Clip from the interior. Shims must be tight to back of brickmould.
4. Install Unit (continued)

**CAUTION**
A minimum space of ¼” is required around exterior perimeter of unit between unit and building framing. Failure to properly space product in opening may result in product and/or property damage.

**NOTICE**
Both nailing through brickmould and Installation Clips must be used for installing all units. If both cannot be used, unit must be secured to building structure through frame.

If not able to secure unit using both Installation Clips and nailing through brickmould, secure unit through frame in Step 7.

- Unit must be plumb, level, and square. Check unit for square by measuring diagonally, upper left to lower right and upper right to lower left corners. Both measurements must be within 1/8”. Adjust shims as needed.
- Bend and fasten Installation Clips to building framing using #10 x 1 ½” screws.
- Nail through brickmould 4” from each end and every 12” between using 3” finish nails.

If not able to secure unit using both Installation Clips and nailing through brickmould, secure unit through frame in Step 7.
5. Remove Brackets and Gussets

**WARNING**
Support unit in rough opening at all times until secured. Failure to do so may result in door falling out causing injury, property, and/or product damage.

**CAUTION**
Some units may have more than one Steel Locking Bracket. Remove all Steel Locking Brackets from frame before opening doors. Failure to do so may result in product damage.

- If unit has not been secured through both brickmould and *Installation Clips*, support unit as doors panels are opened.
- Remove *Steel Locking Brackets* and *Gussets* from the door frame.
- Cut shims flush with door frame using a utility knife.
- Insert flat blade screwdriver in upper lock hole and turn to unlock door. Insert temporary lock handle in lower hole and turn to open door.
- Remove *Steel Locking Brackets* from door panels.
6. Install Long Screws

If unit has sidelights and/or transom don’t install long screws.

- Secure Hinges by installing supplied (from screw pack) #10 × 3” color matched screws through center holes of Hinges, replacing factory installed screws if present.
- Shim behind head jamb receiver. Replace factory installed #8 × ¾” screws in head jamb receiver with supplied (from screw pack) #10 × 3” stainless steel screws.
- Check clearance and operation of door panels. Refer to hinge and hardware adjustment guides, if needed.

Single Doors

- Shim behind strike plates.
- Remove #8 × ¾” screws from hook bolt strike plates and center strike plate and replace with supplied (from screw pack) #10 × 3” stainless steel screws.
7. Securing Through Frame

If not securing through the frame, proceed to next step.

**Operating Units**

- If securing through frame, (where securing through brickmould or Installation Clips cannot be used) drill $\frac{3}{16}$" holes through unit head and side jambs, 4" from each corner and every 16" between. See drawing.
- Insert shims between frame and rough opening behind $\frac{3}{16}$" holes.
- Fasten through drilled holes using #10 x 2 ½" screws.
- Check plumb, level, and square of unit. Adjust shims as needed.
- Cut shims flush with frame.

**Fixed Units**

- Remove interior panel stops along side jambs and head using pry bar.
- Drill $\frac{3}{16}$" holes through unit head and side jambs, 4" from each corner and every 16" between behind interior panel stops. See drawing.
- Insert shims between frame and rough opening behind $\frac{3}{16}$" holes.
- Fasten through drilled holes using #10 x 2 ½" screws.
- Check plumb, level, and square of unit. Adjust shims as needed.
- Cut shims flush with frame.
- Replace interior panel stops using 1 ½" finish nails.
7. Securing Through Frame (continued)

Units with Sidelights

- Drill $\frac{3}{16}$" holes and counterbore through interior trim stop around head and side jambs, 4" from each corner and every 16" between. See drawing.
- Insert shims between frame and rough opening behind $\frac{3}{16}$" holes.
- Fasten through drilled holes using #10 x 2 ½" screws.
- Check plumb, level, and square of unit. Adjust shims as needed.
- Cut shims flush with frame.
- Fill counterbored holes with $\frac{3}{8}$" wood plugs.

8. Secure Sill

**CAUTION**

Rridged sill pan modification may be required for sill clip anchoring and sealing.

- Apply a $\frac{1}{4}$" bead of sealant along sill from interior.
- Install sill clips 4" from each side jamb using supplied (from screw pack) #10 x 1 ¾" screws. Secure sill of door unit and side lights if applicable.
- For double doors install a sill clip in center of door unit. Align with astragal.
9. Flash and Seal Unit

- Close and lock door(s) by following instructions from Step 1.
- Apply a continuous fillet bead of sealant between brickmould and building structure around sides and head.
- Apply flashing onto brickmould along sides of unit overlapping sill flashing and extending 2” above head brickmould.
9. Flash and Seal Unit (continued)

If not installing drip cap (full width), proceed to **Units without Drip Cap (full width)** on Page 17.

**Units with Drip Cap (full width)**

- Apply a $\frac{3}{8}$" bead of sealant $\frac{3}{4}$" above head brickmould and along top edge of head brickmould $\frac{1}{4}$" from front edge.
- Place drip cap (full width) in sealant at head, centered over unit. Secure to building structure using 1 3/4" roofing nails through the predrilled holes.
- Apply flashing over drip cap (full width) at head, overlapping flashing at sides.
- Apply sealant between flashing and drip cap (full width) along head.
- Fold house wrap flap down and secure with house wrap tape.
9. Flash and Seal Unit (continued)

**Units without Drip Cap (full width)**

- Apply flashing onto brickmould at head, overlapping flashing at sides.
- Apply sealant between flashing and brickmould along head.
- Fold house wrap flap down and secure with house wrap tape.
10. Insulate Around Unit

**CAUTION**

When insulating between unit frame and rough opening, or between units when joining, **DO NOT** overpack batt insulation or overfill with expandable foam. Bowed jambs will result affecting product performance and/or unit operation.

- Insulate between frame and rough opening at sides and head. **DO NOT** overpack batt insulation or overfill with low expanding foam.
- Seal gap between frame and rough opening from interior along sides and head with backer rod and sealant, if not insulating or insulating with batt insulation.
11. Apply Exterior Finish and Seal

**NOTICE**

Use backer rod to seal and reduce depth of gap before filling with sealant. Follow sealant manufacturer's instructions.

- Apply exterior finish leaving \(\frac{1}{4}\)" space between brickmould and exterior finish at sides and head.
- Insert backer rod and apply a continuous bead of sealant around exterior perimeter of head and side jambs between brickmould and exterior finish, filling the \(\frac{1}{4}\)" space. **Do not** seal along exterior of sill or block drain holes in sill.