Installation Guide
for Andersen® E-Series Hinged Outswing Patio Doors

Thank you for choosing Andersen.

Instructions are for typical, new wood-framed wall construction with weather protection in place.
For questions call 1-888-888-7020.
Due to ongoing product changes, updated test results and/or industry best practices, this installation procedure may change over time. For updated installation guides, removal instructions and/or additional installation information, visit andersenwindows.com.
Important Safety and Product Information

for Andersen® Windows and Doors

This is the Safety Alert Symbol used to alert you to potential injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Signal Word and Consequence

**WARNING**

COULD Result in: Major Injury/Death

**CAUTION**

COULD Result in: Minor Injury

**NOTICE**

COULD Result in: Product or Property Damage

**IMPORTANT**

Procedure and Product Information

Read this Important Safety and Product Information completely before starting.

Safety and Product Information Index

- Tools
- Handling
- Installation
- Sealing
- Fastening
- Finishing
- Glass
- Protective Film
- Cleaning
- Use
- Joining
- Product Information

• Read installation instructions from beginning to end before starting window or door installation. To configure installation instructions go to: andersenwindows.com/installation

Tools

**WARNING**

• Follow manufacturers’ instructions for hand and power tools. Always wear safety glasses. Failure to do so could result in injury, product or property damage.

Handling

**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. Heavier windows and doors will require mechanical assistance. Failure to do so could result in injury, product or property damage.

• **DO NOT** lift or carry window or door by the exterior trim or extension jambs. Doing so could result in injury, product or property damage.

• Windows, doors, and installation components can have sharp edges. Wear protective equipment when handling. Failure to do so could result in injury.

Installation

**WARNING**

• Use caution when working at elevated heights and around window and door openings. Follow the manufacturers’ instructions for ladders and scaffolding. Failure to do so could result in injury or death.

• Support window or door in opening at all times until fully fastened. Failure to do so could result in window or door falling out causing injury, property or product damage.

• Windows and doors have small parts (e.g. hole plugs, operator spline caps, fasteners, etc.). Small parts if swallowed could pose a choking hazard to young children. Dispose of unused, loose, or easily removed small parts. Failure to do so could result in injury.

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NOTICE

- Andersen head flashing and installation flanges **DO NOT** take the place of window and door flashing tape or liquid flashing. Window or door must be properly flashed and sealed with a material compatible sealant for protection against water and air infiltration. Failure to do so could result in product or property damage.

- **DO NOT** set window or door directly on installation flange. Doing so could affect product performance, and could result in product or property damage.

- **DO NOT** set window directly on sill plate. Elevate window with shims under the side jambs. Failure to do so could affect operation and product performance, and could result in product damage.

- Window or door must be properly shimmed. Failure to do so could affect operation and product performance, and could result in product damage.

- A continuous full perimeter interior seal between window or door frame and opening is required. Failure to do so will affect product performance, and could result in product or property damage.

- Protect window and door sills during installation and throughout construction. Failure to do so could result in product damage.

- **DO NOT** remove window or door packaging material until instructed to do so. Doing so could result in product damage.

NOTICE

- Clean and prepare surfaces receiving sealant following sealant manufacturer's instructions. Failure to do so could result in water infiltration causing product or property damage.

NOTICE

- Follow instructions of foam, sealant, and flashing manufacturers regarding safety, material application, compatibility, and periodic maintenance for continued weather resistance of their products. Failure to do so could result in injury, product or property damage.

WARNING

- Metal fasteners and components could corrode when exposed to preservative-treated or fire-retardant treated lumber. Use approved fasteners and components to fasten window or door. Failure to do so could cause a failure resulting in injury, product or property damage.

- Fastener must attach to a structural framing member with a 1-1/2” minimum fastener embedment. Failure to do so could result in injury, product or property damage.

- **DO NOT** remove screws that attach installation clips or gusset plates to window or door frames. Doing so could result in injury, product or property damage.

NOTICE

- Use masonry screws when fastening directly into masonry or through a buck into masonry. Failure to do so could affect product performance, and could result in product or property damage.

- **DO NOT** over drive screws or nails. Doing so could result in product damage.

- Fasteners must be attached to a structural framing member. Failure to do so will reduce the structural performance to less than published values and could affect product performance, and could result in product or property damage.

WARNING

- Metal fasteners and components could corrode when exposed to preservative-treated or fire-retardant treated lumber. Use approved fasteners and components to fasten window or door. Failure to do so could cause a failure resulting in injury, product or property damage.

- Fastener must attach to a structural framing member with a 1-1/2” minimum fastener embedment. Failure to do so could result in injury, product or property damage.

- **DO NOT** remove screws that attach installation clips or gusset plates to window or door frames. Doing so could result in injury, product or property damage.

NOTICE

- **DO NOT** stain or paint weatherstrip, vinyl, glass, or hardware. Doing so could result in product damage.

- Read and follow finish manufacturer's instructions and safety information. Failure to do so could result in product damage.

- **DO NOT** over load brush with stain or paint when finishing. Doing so could allow finish to wick between glass stop or grille, and glass.
Use

**WARNING**
- **DO NOT** stand in front of or near windows or doors during a storm. Doing so could result in injury. Accessories such as grilles, art glass, and insect screens could dislodge and become airborne if window or door is impacted by wind-borne debris from severe storms or hurricane strength winds. In the event of a storm, remove all accessories from windows or doors and move to a safe location.
- **DO NOT** install air conditioner in window. Doing so could result in injury, product or property damage.

**CAUTION**
- **DO NOT** attach objects or accessories to window or door except Andersen® products specifically designed for the window or door. Doing so could result in injury, product or property damage.

Joining

**WARNING**
- **DO NOT** join any window or door, horizontally or vertically, to any window or door not designed for joining. Doing so could result in injury, product or property damage.
- Joined windows or doors must be individually supported in the opening. Failure to do so could affect operation and product performance, and could result in product or property damage.

Product and General Information

**IMPORTANT**
- Buildings constructed prior to 1978 could contain lead paint which could be disturbed during window or door replacement. For more information on proper management of lead paint, go to: [www.epa.gov/lead](http://www.epa.gov/lead)
- Instructions may not be right for all installations due to building design, construction materials, or methods used and/or building or site conditions. Consult a contractor or architect for recommendations.

**WARNING**
- **DO NOT** join any window or door, horizontally or vertically, to any window or door not designed for joining. Doing so could result in injury, product or property damage.

**CAUTION**
- **DO NOT** attach objects or accessories to window or door except Andersen® products specifically designed for the window or door. Doing so could result in injury, product or property damage.

**IMPORTANT**
- Installation flanges may need to be removed for some installations. (e.g. masonry, replacement), or where exterior finish is already applied (e.g. siding, brick veneer, stucco).
- Installation flange on the window or door alone will not properly flash and seal the window or door.
- **DO NOT** remove band, plastic ties, or packing clips from window or door until instructed.
- **DO NOT** remove performance (NFRC) label until after final inspection. Doing so could delay final inspection and sign-off by the code official.
- Check with your local building code official to identify and confirm compliance with local building code requirements.
- Contact local authorities or waste management company for proper recycling and disposal instructions for removed window or door.
- Clean glass using liquid glass cleaner.
- Clean exterior frame, sash, panels, and insect screens using mild detergent and water with a soft cloth or brush.
- For hard to clean areas, use a nonabrasive cleaner.
- Extension jambs can be factory applied on some windows or field applied prior to installation. **DO NOT** apply extension jambs prior to window or door installation that will be fastened with installation clips. Doing so could prevent access to installation clips for fastening.
- For extension jamb application refer to instructions included with part(s) or go to: [andersenwindows.com](http://andersenwindows.com)
- Protective film is not present on all windows or doors.
- Remove protective film by peeling from seam or corner. Use a plastic scraper to start if needed.
- Remove protective film within six (6) months of installation and when temperature is above 32° F.
- Protective Film is not a substitute for masking.
Glass

- Unless specifically ordered, Andersen windows 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 are available with safety glass that could reduce the likelihood of injury when broken. Information on safety glass is available from your local Andersen dealer.

- Tempered or laminated safety glass is not standard for windows and must be special ordered. Check local building codes for required locations. Failure to do so could result in injury, product or property damage.

- DO NOT apply any type of film to insulating glass. Doing so could cause thermal stress conditions and result in glass damage. Shading devices (e.g. insulated coverings, shutters, etc.) could also cause thermal stress and condensation causing deterioration of windows or doors.

- DO NOT use sealants on exterior or interior glass surface.

WARNING

- DO NOT place suction grips over film seam. Suction grips will not hold if placed over film seam to lift or move window or door. Window or door will fall and could result in injury, product or property damage.

- DO NOT remove protective film near flammable materials. Static charge created when removing film can ignite flammable materials or cause a shock. Doing so could result in injury, product or property damage. See warning label on glass.

- Dispose of protective film immediately after removing. Failure to do so could pose a suffocation hazard to children.

NOTICE

- DO NOT remove protective film until after construction is completed. Doing so could allow glass to be damaged.

Cleaning

- Acid solutions used for cleaning masonry or concrete will damage glass, fasteners, hardware, and metal flashing. Protect window or door and follow cleaning product manufacturer's instructions. If acid contacts window or door, wash all surfaces immediately with clean water.

- DO NOT use metal razor blades to clean glass surface. Glass damage could result.

- DO NOT use or apply solvents, abrasives, harsh chemicals or cleaners to glass, sash, panels, frame, or window or door components. Doing so will result in product damage. For a list of recommended cleaners go to: andersenwindows.com
Unit Identification

**Single Panel**
Exterior View

**Two Panel**
Exterior View

### Parts Included / Partes incluidas

1. **Patio Door**
2. **Installation Kit**

**Instruction guide viewable and downloadable at andersenwindows.com**

### Supplies Needed / Suministros necesarios

- A: Formable Self-Adhering Flashing
- B: Straight Self-Adhering Flashing
- C: House Wrap Tape
  - 2" Galvanized Roof Nails
  - Extension Jambs (optional)
  - Low Expanding Foam
  - Shims (waterproof)
  - Foam Backer Rod
  - Sealant
  - Staples

### Installation Kit Contents:

- (1) Temporary Handle
- (4) Installation Flange Corner Flashing

### Tools Needed

- Safety glasses
- Tape Measure
- Level
- Square
- Hammer
- Utility Knife
- Nail Setter
- J-Roller
- Staple Gun
- Phillips Screwdriver
- Flat Blade Screwdriver
- Drill/Driver
- Caulk Gun

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**Liquid Flashing**
Recommended on concrete slab.
1. Prepare Rough Opening
- Verify that the rough opening is plumb, level, square and sized appropriately.

![Interior View]

2. Cut Weather-Resistant Barrier
- Cut weather-resistant barrier in numbered order as shown.

![Exterior View]

- Make a 6" cut up from each top corner at a 45° angle to allow the weather barrier to be lapped over the installation flange at the head of the door.

3. Secure Weather-Resistant Barrier
- Fold side flaps of the weather-resistant barrier into the opening and staple to inside wall. Fold top flap up and temporarily fasten with tape as shown.

![Exterior View]
4. Remove Door Packaging

5. Apply Extension Jambs, if Required

6. Apply Formable Flashing
   - Apply self-adhering flashing at sill (liquid flashing recommended on concrete slab).

**IMPORTANT**
Make sure that opening is free of voids, holes, chipping or other conditions.

**NOTICE**
Apply formable self-adhering flashing. Make sure there are no wrinkles or voids. Failure to do so may result in product / property damage.
7. Apply Sealant
- Apply sealant at top and sides. Apply three beads of sealant at sill and liberally in bottom corners.

8. Apply Installation Flange Corner Flashing
- Apply installation flange corner flashing. Apply sealant to installation flange corner flashing, as shown.
9. Tip Door into Place from Exterior

- Insert the door into the opening from the exterior. Place the bottom of the door into the opening and tilt the door into position. Center the door between the sides of the opening to allow for shimming.

<table>
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<tr>
<th>IMPORTANT</th>
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<td>Make sure that door sill is properly embedded in the sealant.</td>
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10. Temporarily Secure

- Insert one galvanized nail into corner and several additional pre-punched holes in installation flange to secure door while shimming plumb, level, and square.
11. Insert Shims

- Place shims behind each hinge, on each side of the head strike plate, and as required to position door frame plumb, level and square. Shims must be tight to installation flange and recessed 3/8".

12. Make Sure that Door is Plumb, Level, and Square

13. Nail into Place

- Fasten the door into place by driving galvanized nails into the remaining pre-punched holes in the installation flange.
14. Remove Shipping Blocks from Bottom of Door Panel and Fasten Installation Screws

- For Active-Passive Two-Panel Doors Only, fasten two (2) #8 x 2-1/2” screws in pre-drilled holes at head and sill.

- For Single Panel and Two-Panel Astragal-Hinged Doors Only, remove screws in strike plates, dispose of properly, and replace with #8 x 2-1/2” color matched screws.

15. Adjust Door Panels if Required

- Insert shim into cup and behind hinges as needed to adjust panel reveals.
16. Install Hinge Screws

- Install (2) #12 x 2-1/2" wood screws with matching finish in each hinge.

**IMPORTANT**

For doors that have four hinges per side, use two (2) #12 x 2-1/2" screws in the top and bottom two hinges, and one set screw in each of the middle two hinges (second hole down from top of hinge).

17. Adjust Door

- Operate the door several times to verify proper and smooth operation. Make sure the door will latch correctly.
18. Apply Sealant

- Apply a 3/8" bead of sealant at sides where the installation flange meets the door frame.
- Apply bead of sealant between integral installation flange/drip cap and frame at head, as shown.
19. Cut and Install Side Flashing

• Wipe the door side installation flanges and weather-resistant barrier with a clean rag for proper adhesion.

• Cut and apply side flashing for both sides of door. Correct length is 1/2" short of where top of head flashing will be placed.

• Align the flashing flush against the door frame with the adhesive strip covering the entire door flange and apply. Press flashing in place using a J-roller.

**IMPORTANT**

How to determine correct length of side flashing:

Side flashing length = rough opening height + width of flashing, less 1/2”. Using 6” flashing, this should be rough opening height + 5-1/2”.

20. Cut and Install Head Flashing

• Wipe head installation flange, side flashing and weather-resistant barrier with a clean rag for proper adhesion.

• Cut a strip of flashing long enough so that the head flashing extends 1” beyond the side flashing on each side.

• Install head flashing by pressing firmly in place in one direction using a J-roller.

**IMPORTANT**

How to determine correct length of head flashing:

Head flashing length = rough opening width + twice the jamb flashing width + 1" overlap for each side. Using 6” flashing, this should be rough opening width + 14”.
21. Integrate Flashing System into the Weather-Resistant Barrier

- Make sure that the flap of the weather-resistant barrier lays flat over the head flashing.
- Apply a new piece of flashing over the entire diagonal cut made in the weather-resistant barrier and press into place.

22. Apply Low Expanding Foam

- From interior of building, insert foam applicator nozzle approximately 1” into space between the door and the rough opening, and apply a 1” deep bed of low expanding foam.
- Allow foam to cure completely before applying casing.

\[\text{CAUTION}\]

Do not overfill with low expanding foam or over pack with backer rod to avoid bowed jambs.
23. Apply Backer Rod and Sealant at Sides of Door

- Apply backer rod and sealant at sides. Leave head flashing open for drainage.
- Shape sealant to provide a continuous seal.
- Clean off excess sealant.

**IMPORTANT**

When applying siding or other exterior finish material, leave adequate space between the door frame and exterior finish material. See your sealant supplier for recommendations and instructions for these and other applications.

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24. Prepare Interior Wood Surfaces for Finishing

- Fill all nail holes.
- Sand all interior surfaces with 180 grit sandpaper.
- Wipe all surfaces with tack cloth or light rag.
- Be sure to finish all exposed interior wood surfaces.

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25. Finishing Options:

**Applying Paint**

- Apply one coat of primer and allow to dry.
- Apply two coats of paint, lapping 1/16" onto glass for complete coverage.
- When dry, clean door glass.

**Applying Natural Finish**

- Apply clear polyurethane top coat.
- When dry, lightly sand with 220 grit sandpaper.
- Wipe with tack cloth.
- Apply second coat of polyurethane and lap 1/16" onto glass to ensure complete coverage.
- Apply third coat, if desired, after sanding and wiping surfaces.
- When dry, clean door glass.

▶ Installation is complete.