

KOLBETM

WINDOWS & DOORS

OLD WORLD CLASSIC DOUBLE HUNG WINDOWS

INSTALLATION INSTRUCTIONS

READ THESE INSTRUCTIONS COMPLETELY BEFORE
ATTEMPTING ANY INSTALLATION

⚠ CAUTION

Lead-based paint may be present in older homes, and the removal of windows & doors may cause this paint to be disturbed. In order to minimize exposure to lead-based paint dust, please consult www.epa.gov/lead for more information.



Kolbe & Kolbe Millwork, Co., Inc.
1323 S. 11th Ave. - Wausau, WI 54401 - www.kolbe-kolbe.com

NOTICE

Failure to install and maintain our product according to these instructions will void any warranty, written or implied. The installer is responsible for consulting the contractor, structural engineer, architect, or consumer, for proper installation according to local codes and/or ordinances.

⚠ WARNING

Proper Eye and Hearing Protection must always be worn when installing, removing or performing adjustments to Kolbe window and door products.

⚠ WARNING

Improper use of hand/power tools could result in personal injury and/or product damage. Follow manufacturer's instructions for safe operation of equipment.

⚠ CAUTION

Some installation situations could be different from those shown in instructions. These instructions may not cover all situations.

ITEMS REQUIRED BY INSTALLER

- Hearing protection device
- Sealant
- Level
- Hammer
- Tape measure
- Phillips head screwdriver
- Flashing tape
- Putty knife
- Closed cell foam backer rod in 1/2" (13) diameter and 1" (25) diameter
- Safety glasses/goggles
- Caulk gun
- Square
- Shims
- Flat head screwdriver
- Power drill
- Fiberglass insulation

Installation using installation clips:

- Kolbe installation clips
- #8 x 3/4" (19) phillips flat head screws
- #8 x 1-3/4" (44) phillips flat head screws or 8d common nails

INTRODUCTION

These instructions are for installing Standard and High Performance Old World Classic DH units into a wood or concrete/masonry wall. The rough opening must be lined with a 1-1/2" (38) thick wood buck. Contact your Kolbe window and door supplier for information on installing units into other wall conditions. Please visit our website at www.kolbe-kolbe.com for additional literature and information.

PRELIMINARY PREPARATION

Remove the shipping packaging, skid plates or factory applied bracing. Make sure the unit is not damaged and the dimensions are appropriate for the rough opening. Check that you have all necessary hardware.

Before applying sealant make sure the area to be sealed is clean, dry, and frost-free. Use color-matching or transparent sealant. Photos show contrasting sealant for clarity and demonstration only.

PREPARE ROUGH OPENING:

1. The material/lumber quality and fasteners must be structurally adequate for design load requirements.
2. Typically, the rough opening should be sized a minimum of 1/2" (13) wider and 9/16" (14) higher than the outside measurement of the window frame. Masonry openings should typically be sized 1/2" (13) wider and 9/16" (14) higher than the nosing/exterior casing.
3. The rough opening must be plumb, square, level and in plane.
4. Individual construction members should not be twisted.
5. The sill plate beneath the unit must be level for proper unit operation.

A brick, stone, marble or concrete surface installed up against the window sill could cause the unit to become inoperable.

⚠ CAUTION

When installing into a wall with exterior rigid foam insulation panels, place solid blocking material behind the brickmould to provide proper support when fastening the unit.

INSTALLATION TECHNIQUE

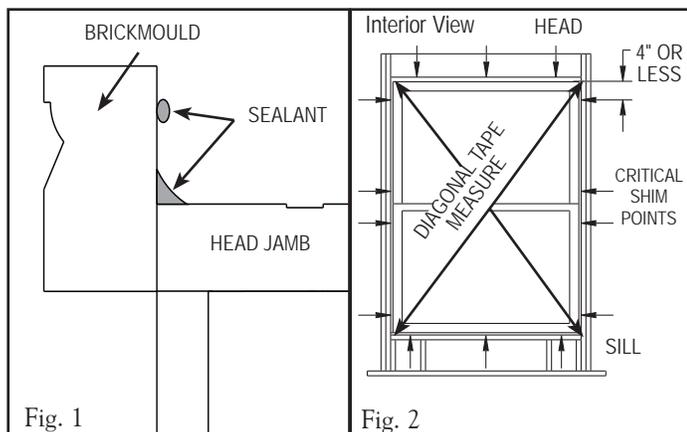
These techniques are general guidelines only, and may not be appropriate for all performance requirements. See the *Installation Anchor Calculator* on our website to help determine the amount of installation clips required. Kolbe recommends using installation clips on all Old World Classic units.

Installation clips are available factory applied to meet a DP 20 (Design Pressure 20 psi) rating. Additional installation clips must be field applied if a higher DP rating is required. Follow the spacing determined by the *Installation Anchor Calculator*. Fasten the clips to the frame head, sides and sill using two #8 x 3/4" (19) Phillips flat head screws per clip. For more detailed information, follow the instructions provided with your Kolbe installation clips.

SEALANT AND FLASHING

Kolbe recommends following ASTM E 2112 guidelines for sealing and flashing exterior windows. Maintain a gap of at least 1/4" (6) between the window frame and the rough opening structure. Create a proper seal between the window and the building exterior. For more details, see our pamphlets *Sealant Information* and *Flashing Information*. These publications are available from your Kolbe window and door supplier or visit our website at www.kolbe-kolbe.com to download a copy.

See Fig. 1. Apply a 3/16" (5) bead of sealant on the head, into the valley created by the brickmould and frame. Apply a second 3/16" (5) bead of sealant approximately 3/8" (10) away from the outermost edge of the side and head brickmould.



From the exterior, carefully tilt unit, sill first, into the rough opening. Press the head jamb brickmould evenly against the exterior sheathing. Center the unit, equalizing the frame to rough opening gap.

INSTRUCTIONS FOR INSTALLATION CLIPS

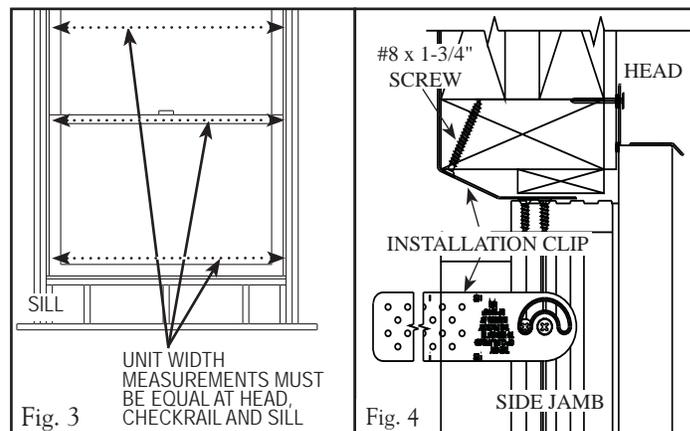
See Fig. 2. Shim along the head, sill, and side jambs at 4" (102) from the corners/ends, and every 8" (203) on center between. Shim between the side jamb and the rough opening at 4" (102) above and 4" (102) below the checkrail. Shimming will ensure correct margins, parallel jambs, a level unit, and proper operation. Do not bow the side jambs. Do not over shim.

See Fig. 2. Measure the distance from the upper left frame interior corner diagonally down to the lower right frame interior corner. Repeat on the remaining two frame corners. The resulting two measurements must be within 1/16" (2) of each other.

CAUTION

Sash operation may be difficult if the checkrail is not shimmed properly.

See Fig. 3. Take three separate measurements between the side jambs at the head, checkrail and sill. These three measurements should be the same. Adjust the shims if necessary.



Double-check to ensure the sill is straight and level. Plumb the exterior side jambs and level the exterior head jamb. Shim on both sides of every installation clip to prevent the frame from bowing.

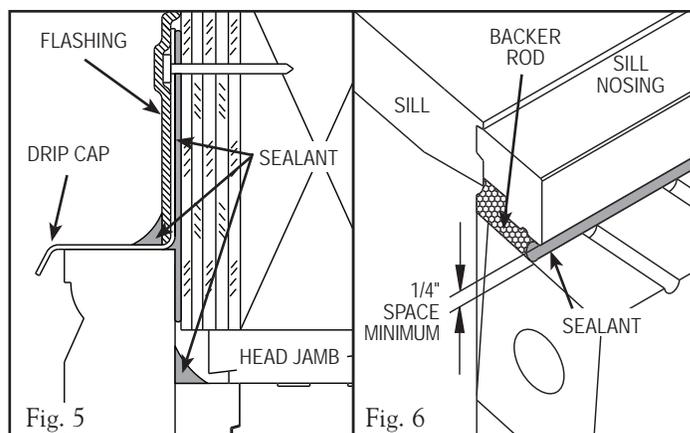
See Fig. 4. Starting with an interior upper corner, bend clips around the rough opening frame and fasten using one #8 x 1-3/4" (44) phillips flat head screw or two 8d common nails. Continue around the perimeter, making sure the jambs are straight and the unit is square.

CAUTION

Over-tightening installation clips may distort the frame components and break the sealant joints.

COMPLETING THE EXTERIOR

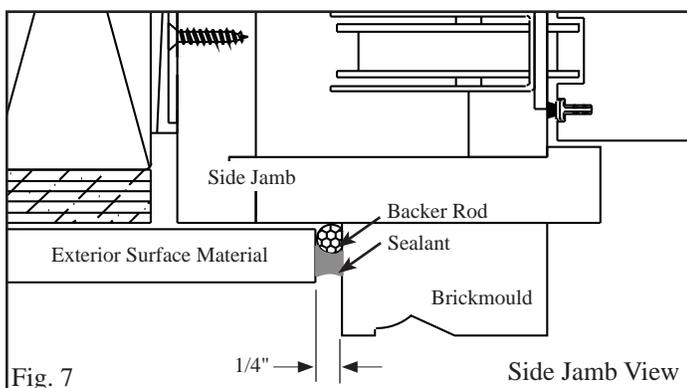
A drip cap must be installed at the head to direct water away from the window and lessen the chance of water seepage. See Fig. 5. If a drip cap has not been applied, apply now. Seal the side edges of the drip cap to the window. Seal between the drip cap and the exterior sheathing. When using building paper to cover the exterior sheathing, also seal the paper to the drip cap.



⚠ CAUTION

See Fig. 6, page 2. A 1/4" (6) (minimum) gap between the window perimeter and framing material is required when using brick, stone, marble or concrete as an exterior facing. This allows for movement or settling of the structure, which could effect unit operation. Span the gap with an appropriate sealant joint, using backer rod the length of the sill, if necessary.

See Fig. 7. For the sides leave a 1/4" gap along the sides between the casing and your exterior siding material. Place backer rod in the 1/4" gap the length of each side. Run a bead of silicone over the backer rod and smooth the bead out so there are no gaps between the sealant and the brickmould and exterior siding material.

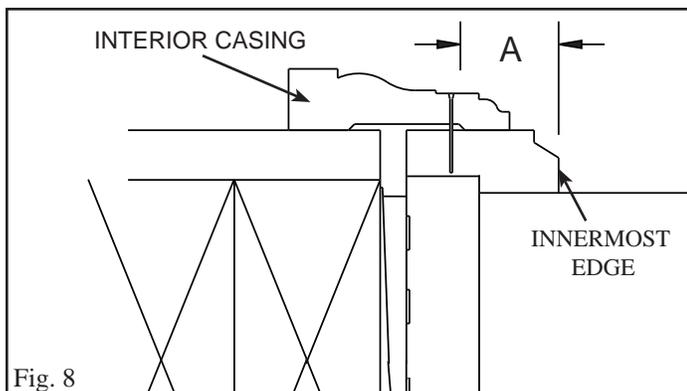


INSULATION & INTERIOR CASING/TRIM

Kolbe recommends installing fiberglass insulation in the void created by the outer perimeter of the window frame and rough opening members. Using a putty knife, loosely fill the entire depth of the gap with insulation.

⚠ CAUTION

Over-packed insulation can lessen the insulating effectiveness and distort the frame, resulting in poor sash operation.



See Fig. 8. Apply the interior casing. The spacing for "A" in Fig. 8 varies. Along the head and sides, install fasteners at least 1" (25) away from the innermost edge of the extension jamb. On the sill, install fasteners at least 1-1/2" (38)

away from the innermost edge of the sill extension jamb. Fasteners installed too close to the innermost edges on the sides can puncture the pulley box and interfere with operation. **Make sure you don't screw through the pulley box!** At the head, fasteners installed too close to the innermost edges on the head can penetrate through the head extension jamb. At the sill, fasteners installed too close to the innermost edges can penetrate the sash.

⚠ CAUTION

Installing fasteners closer than the minimum spacing will damage the unit.

EXTERIOR & INTERIOR FINISHING

For field applied brickmould/casing on the exterior: Fill any voids created by fasteners used in the securing brickmould/casing to the frame. Use exterior wood filler. Sand filler flush and scuff remaining primed wood surfaces prior to applying exterior top coat. Primed wood units must remain dry and finishing should be done immediately. See our *Prefinish Recommendations/Instructions* for more information.

⚠ CAUTION

To maintain the K-Kron II finish warranty, any surface penetration of the finish film of the K-Kron II surface must be sealed with a color-matched or clear sealant. See the finish warranty for details.

Interior: Finish bare wood interiors immediately using a top quality stain, sealer, and/or polyurethane varnish. On factory primed interiors, apply a quality top coat system. See our *Prefinish Recommendations/Instructions* for more information.

⚠ CAUTION

Avoid getting finishing products on any hardware, vinyl components and weatherstripping.

MAINTENANCE TIPS/PROCEDURES

Inspect your Kolbe products periodically/yearly to see if the exterior sealants and/or finishes have any gaps, cracks, or signs of damage and deterioration. Any cracks must be caulked immediately with a high quality sealant, to maintain the seal integrity of the paint finish and to prevent infiltration of water and air.

CLEANING

A yearly cleaning with a mild soap and sweet water (tap) solution is recommended for the sash and frames; then rinse. Clean glass with standard glass cleaner, keeping it from running down the sash onto the frame and weatherstrip.

⚠ CAUTION

Do not pressure wash.

HARDWARE

Check all fasteners, making sure all hardware is properly secured. The hardware and locks can be lubricated with a Teflon® or Teflon®/silicone spray.

INSULATING GLASS

Broken or fogged IG units, requiring reglazing or replacement, should be referred to your Kolbe Window and Door supplier.

⚠ CAUTION

Kolbe's standard H°K insulating glass has a LoE² coating on surface 2. It does not match clear glass or other LoE² products. Do-it-yourself reglazing or replacing without permission from Kolbe Windows and Doors will void the product warranty.

RECYCLING

Care must be taken to properly recycle or dispose of old materials. Any recyclable materials should be separated from non-recyclable or hazardous materials. Please consult with local or state authorities regarding proper disposal of non-recyclable or hazardous materials.

Contact your Kolbe window and door supplier or visit us at www.kolbe-kolbe.com for further information.

THANK YOU FOR PURCHASING KOLBE PRODUCTS

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OLD WORLD CLASSIC DOUBLE HUNG SASH INSTALLATION

12/14

only for units shipped with the sash loose

ITEMS REQUIRED BY INSTALLER

- Hearing protection device
- Level
- Hammer
- Tape measure
- Phillips head screwdriver
- Putty knife
- Safety glasses/goggles
- Square
- Shims
- Flat head screwdriver
- Power drill

ITEMS PROVIDED BY KOLBE

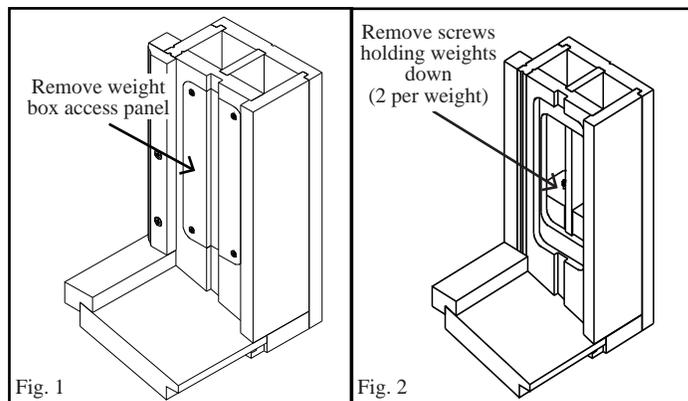
- Top sash
- Bottom sash
- Head jamb parting stop
- Side jamb parting stops - top section
- Side jamb parting stops - bottom section
- Interior stops (installed on unit)
- #6 x 1-1/4" screws (bottom section of side parting stops)
- #6 x 1-1/4" screws (Interior stops)
- Decorative washers (Interior stops)
- #8 x 1-1/4" screws (attach chains to sash)



SASH INSTALLATION

The weights, chains and pulleys will be inserted in the weight box when you receive the unit. In the weight box there are 2 screws holding each weight in place for shipping.

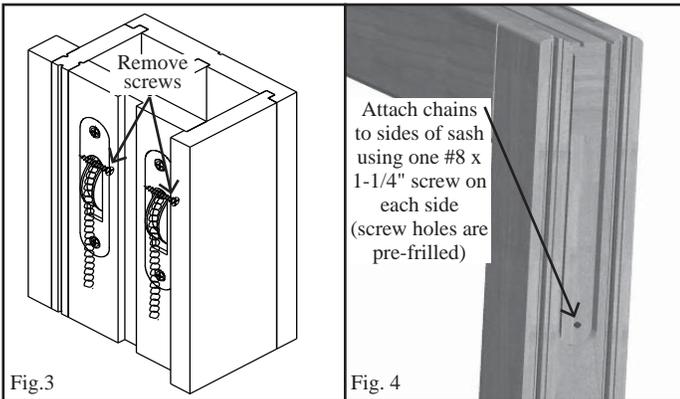
- The interior stops have been temporarily installed on the unit. Remove them before sash installation.
- See Fig. 1 & 2. Carefully remove the weight box access panel from the interior of each side jamb and remove the screws in the jambs holding the weights down (2 per weight). This will allow the weights to move freely in the weight boxes. Replace the weight box access panel.



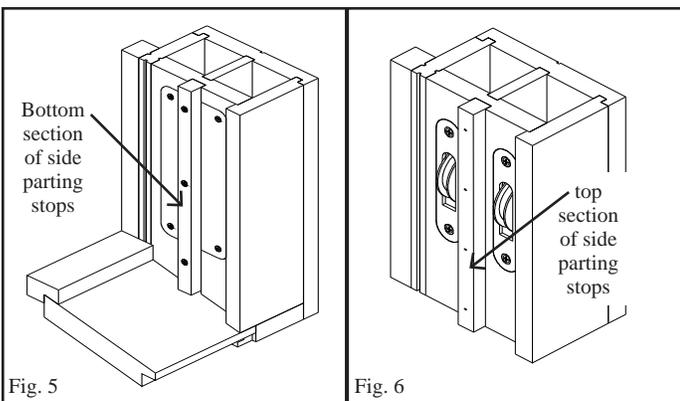
INTRODUCTION

These instructions are for installing sash in Old World Classic Double Hung units shipped with the sash loose. Several steps were taken in production to simplify sash installation in the field.

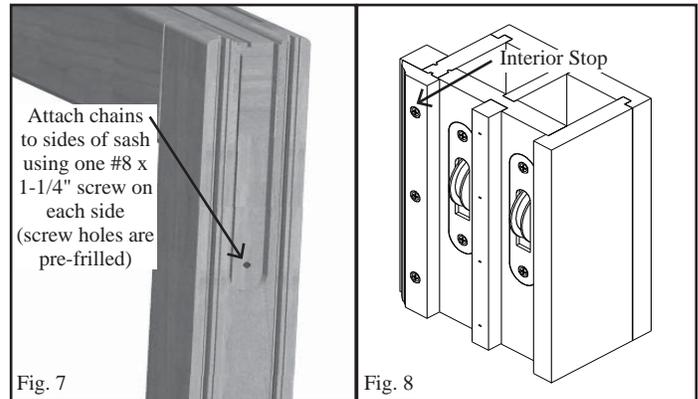
- See Fig. 3. Remove the screws from the chains holding them from falling into the weight pocket.
- Place the top sash into the frame. Set the bottom of the sash on the sill and tilt the top of the sash backwards (make sure the sash exterior is facing the exterior).



- See Fig. 4. Pull the chains down and attach the chains to the sides of the sash. Use one #8 x 1-1/4" screw for each side and place the screw in the pre-drilled hole on each side.
- Tilt the top of the sash forward and slide the sash all the way up.
- See Fig. 5. Install the bottom section (has screw holes) of the side parting stops on each side jamb. Make sure the bottom is all the way down to the sill before securing in place using the provided #6 x 1-1/4" screws.



- See Fig. 6. Install the top section of the side parting stops. Make sure the bottom of the top parting stop is tight to the top of the bottom parting stop. Use 1-1/8" brad nails to secure in place (there will be a 1/16" - 1/8" gap at the top).
- Install the head parting stop in the kerf at the top of the unit. Use 1-1/8" brad nails to secure in place.
- Place the bottom sash into the frame. Set the bottom of the sash on the sill and tilt the top of the sash backwards (make sure the sash exterior is facing the exterior).



- See Fig. 7. Pull the chains down and attach the chains to the sides of the sash. Use one #8 x 1-1/4" screw for each side and place the screw in the pre-drilled hole on each side.
- Tilt the top of the sash forward and into place.
- See Fig. 8. Re-install the head interior stop and then the side interior stops using the provided #6 x 1-1/4" screws and decorative washers.
- Check top and bottom sash operation
- Check lock operation

Contact your Kolbe window and door supplier or visit us at www.kolbe-kolbe.com for further information.

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OLD WORLD CLASSIC DOUBLE HUNG WINDOWS INSTALLATION INSTRUCTIONS

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