

Global Windows and Doors and all our employees are proud to be the supplier of your new Door. This product is carefully designed to supply you with years of carefree operation. It is important to properly install the door to ensure the best protection against weather conditions and avoid warranty issues.

A Door gains strength from the surrounding wall structure. This is obtained from proper sizing, support and installation methods. The North America Fenestration Standard (NAFS) designators for Class, Performance Grade, Design Pressure, Water Pressure and Air Infiltration/Exfiltration test data can only be supported by GWD's if the installation is done correctly and in accordance with CAN/CSA A440.4.

Doors must be installed in an opening where a water resistive barrier (WRB) has been adequately prepared. The correct preparations include the installation of a Header and Sill impermeable barrier, the proper lapping of flashing layers, and continuity of both the thermal barrier and the air barrier with the door component. Failure to do so can void warranty.

Important note:
Please consult with your local building code official, Authority having Jurisdiction or Building Inspector for applicable building codes and regulations. Local building code requirements supersede all installation instructions recommended by Global Windows and Doors.

Instructions may not be right for all installations due to design, construction material or methods used and/or building site conditions. Consult a contractor or architect for recommendations in your region.

1 Required Tools and Materials

- TOOLS REQUIRED:**
- Tape measure
 - Level
 - Square
 - Hammer
 - Stapler
 - Sealant Gun
 - Scissors or utility knife
 - Screwdrivers (#2 Robertson with 8" shaft and a small flat blade)
 - Drill Bits 13/64" and 1/8" and masonry bit for concrete applications
 - Pry bar
 - J Roller
 - Drill

Installation will require two or more persons for safety reasons.

You will need to supply

- Exterior sealant: High quality exterior grade silicone sealant (2-3 tubes per door).
- Recommended for Nailfin: #8 x 1-1/2" (minimum) corrosion resistant wood screws.
- Low expansion polyurethane window and door foam DO NOT use latex foams.
- Composite or Impervious shims/spacers (12 to 20).
- Drip Cap (if none exists).

DuPont™ Tyvek® System - or equivalent

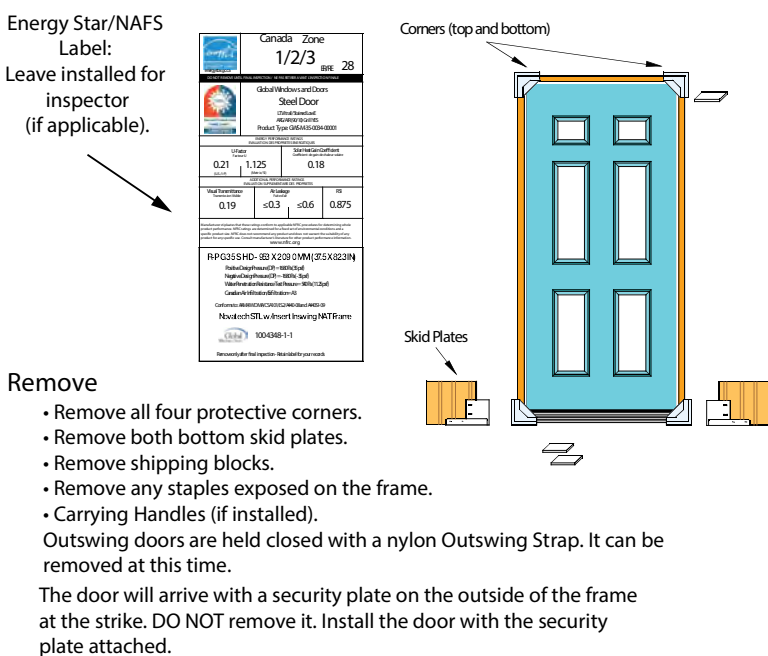
- Self adhesive water-impermeable membrane.
- Flashing system tape
- Water resistive barrier sheathing tape

2 Inspection and Receiving Preparation

- Inspect**
- Cosmetic damage.
 - Product squareness, (diagonal measurements must be within 1/4" difference).
 - Correct product size, color, grid pattern, glazing, energy efficiency and NAFS requirements etc.

If any of the above requirements represent a concern, or if you expect environmental conditions to exceed the doors performance rating, do not install the door. Contact your dealer or distributor for recommendations.

Energy Star/NAFS Label:
Leave installed for inspector (if applicable).



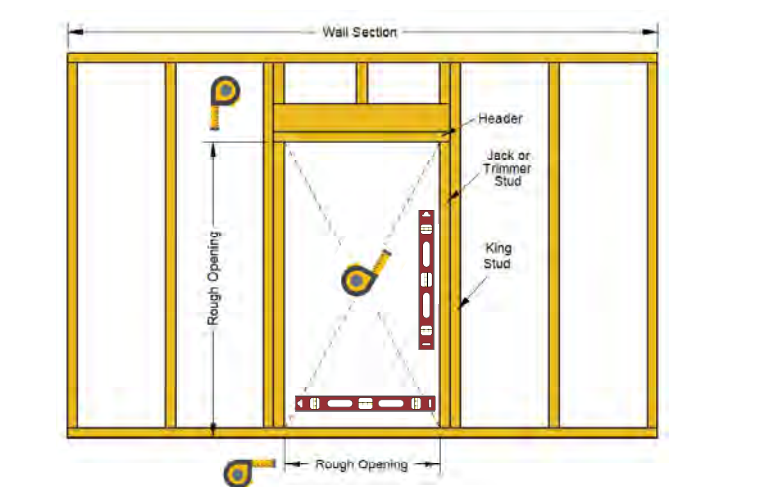
Remove

- Remove all four protective corners.
- Remove both bottom skid plates.
- Remove shipping blocks.
- Remove any staples exposed on the frame.
- Carrying Handles (if installed).

Outswing doors are held closed with a nylon Outswing Strap. It can be removed at this time.

The door will arrive with a security plate on the outside of the frame at the strike. DO NOT remove it. Install the door with the security plate attached.

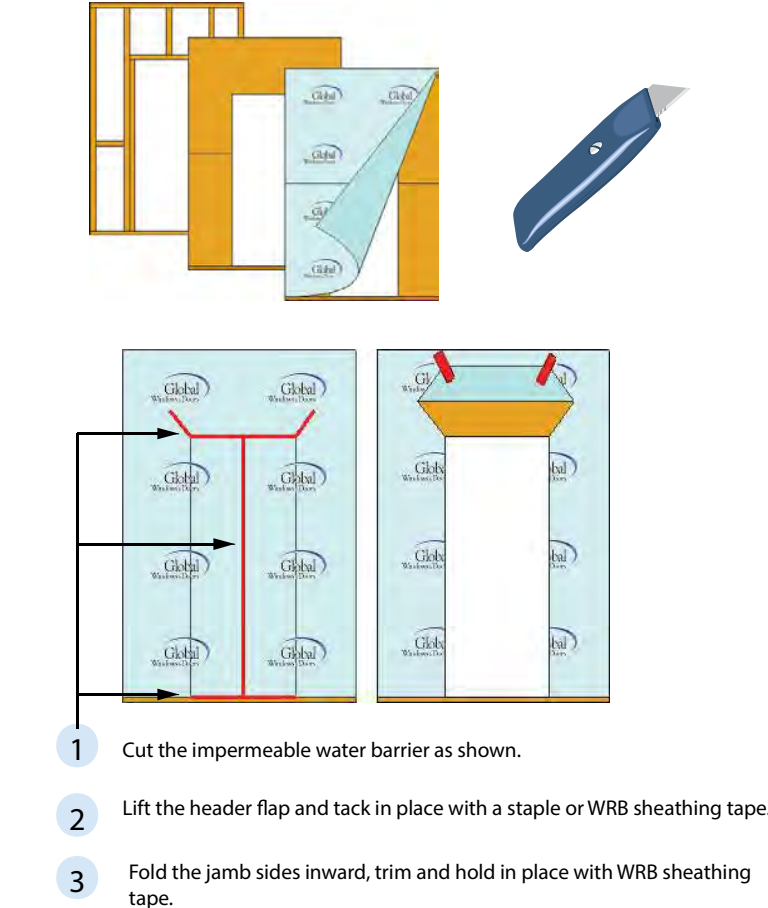
3 Rough Opening (RSO) Preparation



Important: Ensure Sill is Level and sound, shim or reconstruct if necessary.

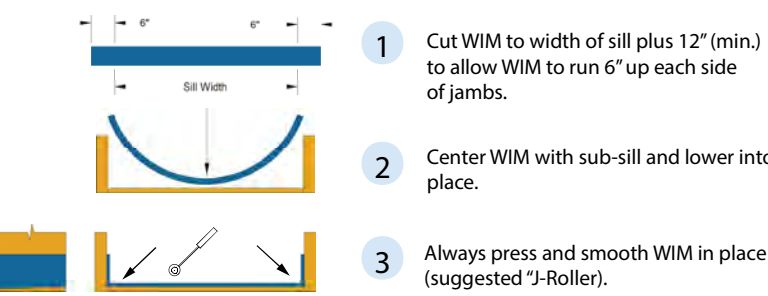
- Determine prior to the installation what the actual finish floor height will be and adjust the rough opening if needed to accommodate a taller unit height. Global doors uses a 1-7/8" high threshold which provides adequate clearance in most applications. This ensures that the door does not drag on interior floors after installations.
- Verify the door is 3/4" to 1-1/2" narrower and 1/2" to 3/4" shorter than the rough opening.
- Verify the rough opening is square, plumb and Jambes are parallel.
- The rough opening sill must not be crowned or sagged, but rather be level with a 6% slope (positive slope) to the exterior sub-sill.
- Minimum double studs should be used at wood frame rough openings <3m.
- The header must be supported by trimmer or jack studs.

4 RSO Preparation - "1" Cut Water Resistive Barrier (WRB)

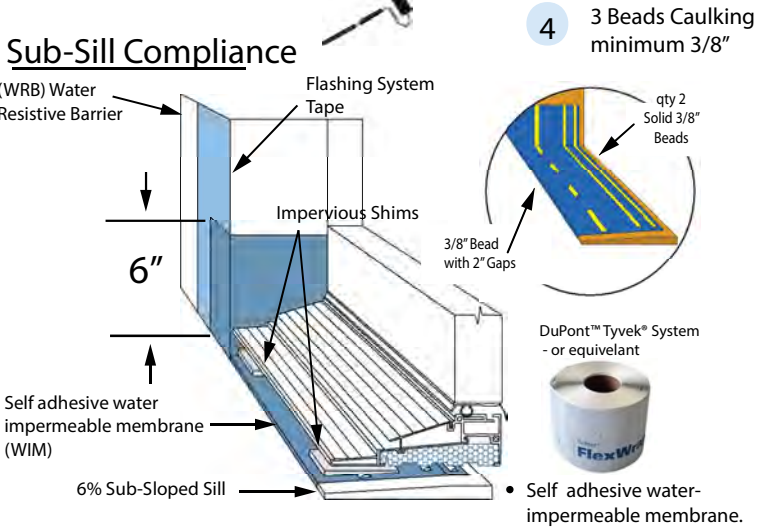


5 Sub-Sill Preparation Water Impermeable Membrane (WIM)

GWD's recommends using Self Adhesive Water Impermeable Membrane alone or in combination with an optional pre-fabricated Sloped Sub-Sill Pan, (panel 6).



Sub-Sill Compliance



6 Install into Rough Opening

Prepare the Door by Caulking the Jamb and Header. Minimum 3/8" to a full 1/2" bead to ensure sufficient coverage of Door Flange and Nailfin.

Do not slide the bottom of the door into the opening. (Sliding will damage sealant lines) Position the Door at the bottom on an angle and tilt into place.

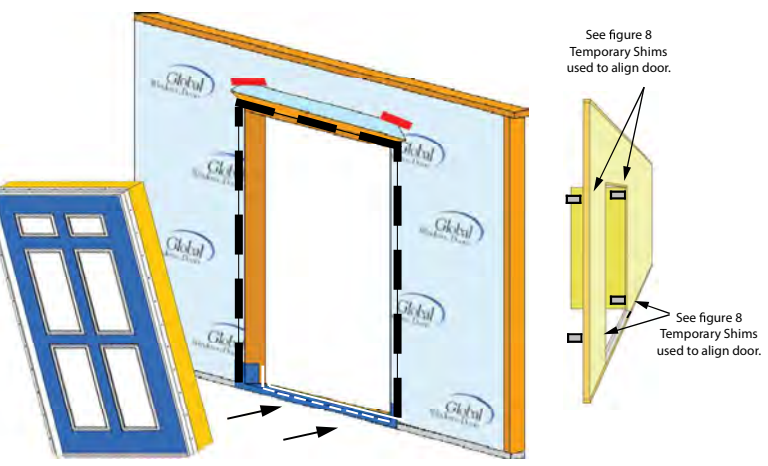
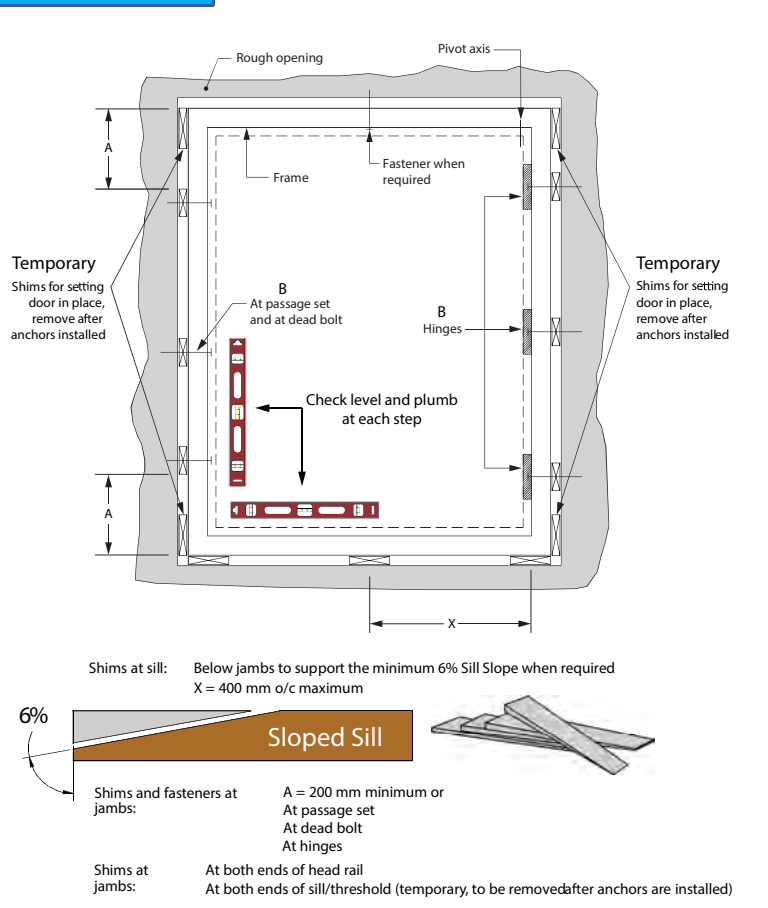


Figure 7 Shimmiing and Anchoring (CSA A440.4-current)



8 Shimming and Anchoring continued....

1) Secure the door in place by "anchoring" at the lower hinge blank hole only.

Qty 6
#8 x 3" Flat Robertson

2) Level and Plumb by adjusting Shims. Adjust door frame in or out to make Jamb's parallel.

Note:
a) Sill shims should not be needed if sill is level.
b) Because of the water shedding 6% sloped sill, the lower sill shims, if required can only be installed from the exterior.

3) Install the remaining anchors in accordance with CSA A440.4 (Figure 7 shown)

Hinge Side Knob Side

4) Open and close the door to confirm correct alignment. Re-plumb if necessary.

5) Fasten the door by driving screws into the installation fin (caulked nailfin) at every second hole provided. (Ensure proper wet-out of the sealant).

6) Remove temporary shims at head and sill.

9 Combination Door Sidelite Installation

Follow Figure 8 CSA A440.4-current Guidelines for A, B and X Shim and Anchor

Composite impervious shims. Do not use wood or materials prone to decomposition.

#8x3 Flat Robertson Woodscrews

If an anchor is required at the head of a window or door, the anchor shall be designed to restrict inward and outward movement, while still allowing for differential movement between the head of the unit and the lintel.

A

A

B

B

A

X

X

X

10 Cellular PVC Installation (alternate anchoring)

6" Installation Bracket used with Cellular PVC only.

Inswing Outswing

#8x3" Flat Robertson
#8x1/2" Panhead

As required

Wrap bracket around studs if necessary.

11 Global Windows and Doors CSA A440.4-current Header Compliant Recommendations

Water Resistive Barrier (Sheathing Tape)

Flashing System Tape

End Dam

Drip Cap

Minimum 3/8" Caulking

Low expansion foamed-in-place polyurethane insulation

Pre-fabricated Head Flashing (Vinyl)

1

2

3

Cut lines

Heat and Bend up and into place. Tab behind the nailfin. Apply caulking to seal seam.

12 Install Head Flashing

1 Install vertical Jamb Flashing (Water Resistive Barrier).

2 Prepare header surface with a strip of flashing tape.

3 Caulk across flashing

4 Tack or staple the Drip Cap in place.

Flashing system tape
DuPont™ Tyvek® System - or equivalent

13 Install Head Flashing ...continued

5 Layer another strip of Flashing System Tape across the Drip Cap.

6 Return the WRB back in place and seal all seams with WRB sheathing tape.

Note: To allow for drainage and reduce forced air ingress, use sheathing tape across this surface with breaks.

Water resistive barrier sheathing tape
DuPont™ Tyvek® System - or equivalent

14 Low Expansion Polyurethane Foam and Final Caulking

Lowexpansion polyurethane foam

Final Caulking Bead (air Barrier)

15 Important Information

- Instructions are typical for new wood-framed wall construction with weather protection in place.
- Instructions may not be right for all installations due to building design, construction materials or methods and/or building or site conditions. Consult a contractor or architect for recommendations.
- Doors must be properly shimmed and anchored in accordance with CSA A440.4-current. Failure to do so could affect operation and product performance and could result in product or property damage.
- A continuous full perimeter interior seal between door frame and opening is required. Failure to do so will affect product performance, and could result in product or property damage.
- Do not remove the attached installation brackets to the door frame. Doing so may result in injury, product or property damage.
- Installation Nailfins on the Door alone will not properly flash and seal the door.
- Do not remove performance 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.
- To maintain warranty, wood frames must be painted within 45 days of installation.
- Warranty will be null and void in the event of improper installation, impact of foreign objects, fire, earthquake, flood, hurricanes or any other acts of God.

All claims for warranty are to be reported to the Global Windows and Doors Dealer where the product was purchased. The Dealer will investigate the claim and determine if a warranty issue exists. Upon confirming a warranty issue the Dealer will submit the claim to Global who will schedule a service call to resolve the warranty issue.

If a defect occurs, Global Windows and Doors, at it's sole discretion, will repair, replace warranted door or refund the original purchase price. Global Windows and Doors maximum liability is limited to the amount of the original purchase price and will not cover the costs of labor for removal and or installation of any replacement door.

In no even shall we be liable for consequential or incidental damages of any kind, including damages to any persons, the building or it's contents, resulting from Global product defects.

The manufacturer will not be liable for any door(s) repaired or replaced without prior written permission.

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This document can be found and downloaded at <https://globalwindows.ca/installation-guides/>