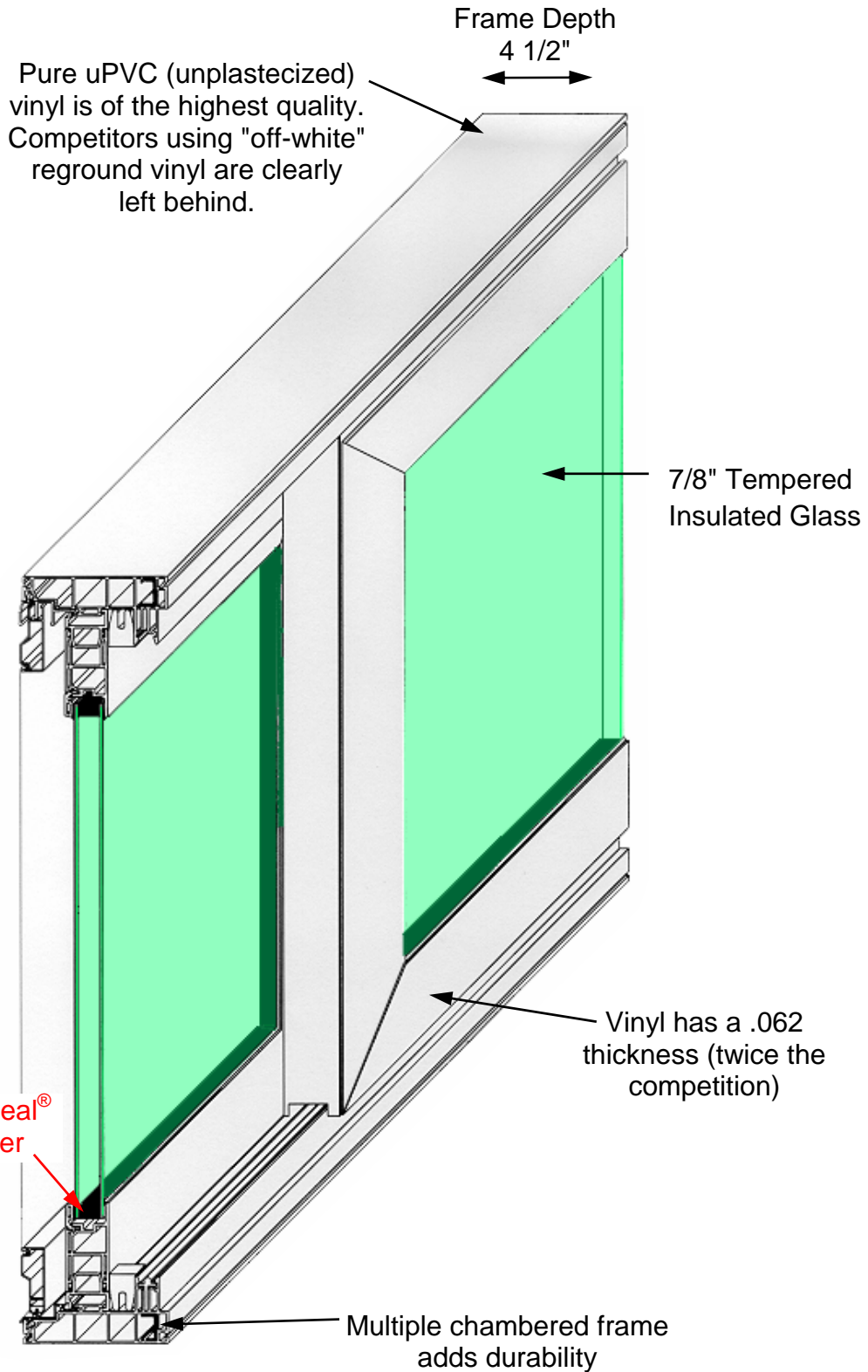


# VINYL GLIDE PATIO DOOR

See 3-Part specifications for this product

Download CAD drawings for this product



## Related Products

VINYL  
WINDOWS

VINYL  
SPECIALTY  
PRODUCTS

ALUMINUM  
PATIO DOORS

WOOD CLAD  
PATIO DOORS

- Galvanized steel reinforcements in the operating sash and meeting rail add strength in critical areas.
- Tandem wheel adjustable rollers allow for an easy gliding operation
- All corners on frame and sash are fusion welded
- High quality aluminum mesh screen



**VINYL GLIDE SERIES(SGD-R25)**  
SLIDING GLASS DOOR  
4 1/2" FRAME DEPTH

**FEATURES**

SPECIFICATIONS

DRAWINGS

TEST  
INFORMATION

**1.) Available Configurations**

- Sliding Glass Door
- Geometric shapes
- OX, XO, OXO, OXXO, XOO, OOX (as viewed from exterior)

**2.) Main frame / Sash**

- Dropped-glazed sash
- Fin-seal weatherstripping
- Positive interlocks
- Nailing fin

**3.) Framing System**

- 4 1/2" frame depth
- 0.070" wall thickness of vinyl (frame)
- 0.076" wall thickness of vinyl (sash)
- Fusion welded main frame and sash members for extra strength
- Galvanized steel reinforcements

**4.) Type of hardware**

- Heavy-duty tandem wheel, adjustable roller system
- Hand-operated interior locks
- Footbolt lock
- Wide variety of locking and operating hardware options

**5.) Performance**

- Structural (Test reports available upon request)

**6.) Glazing**

- 7/8" insulated
- Capillary tubes
- Argon gas (optional)
- Wide variety of glazing, tinting and thickness options

**7.) Muntin choices**

- Internal or simulated divided lites

**8.) Finish**

- Highest grade of Blue-White Poly(Vinyl Chloride)(uPVC)
- Beige color vinyl (optional)

**9.) Screen choices**

- Fiberglass screen (standard)
- Stainless steel or aluminum screen
- Victor hinged screen

**10.) Panning & Trim choices**

- Interior trim available



**VINYL GLIDE SERIES(SGD-R25)**  
 SLIDING GLASS DOOR  
 4 1/2" FRAME DEPTH

SPECIFICATIONS | DRAWINGS | FEATURES

<b>MODEL</b>	Thermalized Sliding Glass Door
<b>SERIES</b>	VINYL GLIDE Series
<b>CLASS</b>	SGD-R25
<b>OPERATION</b>	
<b>MAXIMUM SIZE</b>	AAMA structural test size is 5'-11"x6'-7 1/2". For minimum and maximum contact Quaker Window Products.
<b>GLAZING THICKNESS</b>	7/8" Insulated glass
<b>MULLING</b>	Mulls to picture window
<b>FINISHES</b>	Highest grade of Blue-White Vinyl(uPVC).
<b>MUNTINS</b>	Between-the-glass muntins optional
<b>SCREENS</b>	Screen with aluminum frame and wire mesh cloth
<b>OPERATING FORCE(LBS)</b>	9#
<b>CURVED SHAPES</b>	Radius and Circle tops available

**PERFORMANCE**

The performance numbers listed below represent independent laboratory test on Quaker Windows at the time of publication. Please contact Quaker Window for the most recent performance data.

Model	NWWDA Rating I.S. 2-97	Structural Load P.S.F.	Air At 25 MPH	Water (No Penetration) PSF	CRF Condensation Resistance Factor	U of C At 15 MPH
Sliding Door	SGD-R25	37.5	.1	3.75	NA	0.30

**STC Rating: (Contact Quaker Window for glazing options and optional STC Ratings)**

Note: Numbers listed are subject to change without notice.  
 U value tests were conducted using Low-E.

NA- Not available at time of publication



**VINYL GLIDE SERIES (SGD-R25) SPECIFICATIONS**  
SLIDING GLASS DOOR  
4 1/2" FRAME DEPTH

TEST  
INFORMATION

DRAWINGS

FEATURES

**THERMALIZED VINYL  
SLIDING GLASS DOOR  
VINYL GLIDE SERIES**

**PART 1 - GENERAL**

**1.01 GENERAL PROVISIONS:**

- A.** The Conditions of the Contract, and all Sections of Division 1, are hereby made a part of this Section.
- B.** Coordinate work with that of all construction contractors affecting or affected by work of this Contract. Cooperate with such contractors to assure the steady progress of the Work
- C.** Pre-Bid Qualifications: All bids must be based on pre-qualified products, to qualify, the bidder must furnish one complete door unit and additional information as shown below ten (10) days prior to bid date.
  - 1. This sample must be identical to the model of the door the bid is based on, with the finish being the only exception.
  - 2. The prospective bidder shall also include in his pre-bid qualification package copies of the independent laboratory tests which certify that the proposed product meets or exceeds the SGD-R25 classification as specified herein and shall show continuing compliance by furnishing a Notice of Product Certification from the Administrator/Validator of the AAMA Certification Program. Test reports from an independent laboratory showing that the glass to be supplied has been tested to the CBA Level is also required.

**1.02 DEFINITION:**

- A.** Sliding glass doors shall consist of two or more panels of glass contained in vinyl frames, which in turn are contained within an overall vinyl frame designed so one or more panels are moveable in a horizontal direction. Panels may be all sliding or some sliding and some fixed. Panels shall lock or interlock with each other or shall contact a jamb member where the panel may be securely locked. Doors shall be designed and assembled so that vinyl to vinyl contact between horizontal members moving relative to one another does not occur.

**1.03 QUALITY ASSURANCE**

- A.** Standards: Except as otherwise indicated, requirements for vinyl sliding glass doors, terminology and standards of performance and fabrication workmanship are those specified and recommended in ANSI/AAMA 101 and applicable general recommendations published by AAMA.
- B.** Performance and Testing: Except as otherwise indicated, comply with air infiltration tests, water resistance tests and applicable load tests specified in ANSI/AAMA 101 for type and classification of the sliding glass door units required in each case.
- C.** Testing: Where manufacturer's standard sliding glass door units comply with requirements and have been tested in accordance with specified test, provide certification by manufacturer showing compliance with such tests.
  - 1. Test reports shall be no more than four years old.
  - 2. Sample submitted for tests shall be of manufacturer's standard construction and of maximum test size specified by AAMA. The sequence of tests shall be optional between manufacturer and the testing laboratory except that in all cases, the air infiltration shall be performed before the water resistance test.
- D.** NFRC Testing: Products are tested and certified for thermal performance by National Fenestration Rating Council (NFRC), therefore, all data shown is in accordance with the guidelines set forth as follows:
  - NFRC 100 – "Procedure for determining fenestration products U-Factors"
  - NFRC 200-95 – "Procedure for determining fenestration product Solar Heat Gain Coefficients at normal incidence"
- E.** Specific Performance Requirements:  
Sliding glass doors shall conform to specified ANSI/AAMA standards and following, whichever are the more stringent:
  - 1. Air Infiltration Test: With the panel in a closed and locked position, the sliding glass door shall be subjected to an air infiltration test in accordance with ASTM E 283-84. Air infiltration shall not exceed 0.1 cubic feet per minute per square foot at 1.57 psf (25 mph).



<p><b>VINYL GLIDE SERIES (SGD-R25) SPECIFICATIONS</b> SLIDING GLASS DOOR 4 1/2" FRAME DEPTH</p>
---

2. Water Resistance Test: The glazed unit shall be mounted in its vertical position continuously supported around perimeter and the panel placed in the fully closed and locked position. The sliding glass door unit shall be subjected to a water resistance test in accordance with ASTM E 547.

Testing shall be performed on sliding glass doors both with and without an available insect screen.

a) Using a static pressure of 3.75 pounds per square foot for storm doors, a water flow rate equal to five gallons of water per hour per square foot of sliding glass door area should be cycled for five (5) minutes of water on and one (1) minute off for a total of four (4) cycles. No water shall pass the interior face of the storm door frame and there shall be no leakage as defined in the ASTM E 547 test method.

3. Uniform Load Structural Test: Per ASTM E 330-84. At the conclusion of tests, there shall be no glass breakage, permanent damage of fasteners, hardware parts or any other damage causing the door to be inoperable at 37.5 psf.

5. "U" Value Tests: (Co-efficient of Heat Transfer):

a) Thermal Transmittance of Conduction with a 15 mph perpendicular dynamic wind: 0.30 BTU/Hr/Ft<sup>2</sup>/F

#### **1.04 SUBMITTALS:**

**A. General:** Provide submittals in compliance with the following:

1. Product Data: Submit manufacturer's specifications, recommendations and standard details for vinyl sliding glass door units, including independent laboratory-certified test reports as necessary to show compliance with requirements.

2. Shop Drawings: Submit shop drawings, including typical unit elevations and showing full- or half-scale detail sections of products being supplied. Indicate type of glazing and screening.

#### **PART 2 - PRODUCTS**

##### **2.01 GENERAL**

**A. Manufacturer:** Subject to compliance with Contract Documents and specifications, provide one of the following:

1. Vinyl Glide Series vinyl sliding glass door as manufactured by Quaker Window Products Co.

Phone (800) 347-0438 / Fax (573) 744-5822

2. Architect- approved equal.

##### **2.02 MATERIALS**

**A. Vinyl Extrusions:** All extruded sections shall be of Poly (Vinyl Chloride)(uPVC).

**B. Fasteners:** Aluminum, stainless steel, or other materials warranted by manufacturer to be non-corrosive and compatible with vinyl door members, hardware and other components of the sliding glass doors.

1. Do not use exposed fasteners on exterior except where unavoidable for application of hardware.

2. Provide zinc-plated steel Phillips flathead machine screws for exposed fasteners, where required, or special tamperproof fasteners.

**C. Rollers and Roller Assembly:** Moveable panels shall be fitted with rollers and roller assemblies conforming to AAMA 506.3-87. Rollers and roller assemblies shall be designed to provide easy movement and to adequately support the panel during extended usage without deforming or developing flat spots.

**D. Sliding Weatherstripping:** Provide double weatherstripping using silicone-coated woven pile with polypropylene fin center where specified with AAMA 701.

##### **2.03 FABRICATION AND ACCESSORIES:**

**A. General:** Provide manufacturer's standard fabrication and accessories that comply with specifications indicated.

**B. Sliding Glass Door Members:** All sliding glass door members shall be of vinyl excluding muntin bars, fasteners, and hardware.

1. Main frame and insert members shall not have required minimum wall thickness as long as they meet all specifications of ANSI/AAMA 101.

**C. Hardware:** Hardware having component parts which are exposed shall be of aluminum, stainless steel, or other non-corrosive materials compatible with vinyl. Cadmium or zinc-plated steel where used must be in accordance with ASTM Specification A 165 or A 164.



<p><b>VINYL GLIDE SERIES (SGD-R25) SPECIFICATIONS</b> SLIDING GLASS DOOR 4 1/2" FRAME DEPTH</p>
---

**D. Construction:**

1. Assembly: The vinyl patio door shall be assembled in a secure and workmanlike manner to perform as hereinafter specified. All joints of the main frame and the panels shall be mitered type, and fusion welded.

2. All panels shall be of mitered construction and fusion welded. The meeting rails shall interlock in the closed position. The meeting rail interlock shall consist of two separate and distinct interlocks containing fin seal weatherstripping as an integral part of both metal interlocks.

**E. Panels:**

1. The panel must be easily removed from the frame for repair. Reglazed shall be easily accomplished without the aid of special tools.

**F. Glazing:**

1. All glazing shall be glazed at the factory as follows:

a) All units shall be constructed to an overall minimum thickness of 7/8" with two lites of DSB (1/8"), 3/16" or 1/4" (as size and loading requires)

b) All insulated glass units shall be tested, certified and carry the respective CBA level certification on glass spacer.

c) Test reports supporting CBA certification shall be submitted with bid

d) All glass must be tempered.

2. All panels shall be dropped glazed.

**PART 3 - EXECUTION**

**3.01 PREPARATION:**

**A.** Do not remove existing doors until new replacements are available and ready for immediate installation. Do not leave any openings uncovered at end of working day, during wind-driven precipitation or during excessively cold weather.

**B.** Remove existing work carefully; avoid damage to existing work that will remain.

**C.** Perform other operations as necessary to prepare openings for proper installations and operation of new door units.

**3.02 DISPOSAL:**

**A.** Existing doors and other materials removed from the building become the property of the contractor who shall promptly remove and dispose of such materials at no additional cost to the owner.

**B.** Comply with all applicable laws, rules and regulations.

**3.03 INSTALLATION:**

**A.** Comply with manufacturer's specifications and recommendations for installation of door units, hardware, operators and other components of work. In no case shall attachment to existing structure or to components of the door system be through or abridge the thermal barriers of the replacement doors.

**B.** Set units plumb, level and true to line, without warp or rack of frames or sash. Anchor securely in place. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action.

**C.** Wedge insulation between frames of new doors and construction to remain, or between frames and new blocking as applicable. Compress fiberglass to not less than 50 percent of original thickness.

**D.** Set sill members and other members in bed of compound as shown, or with joint filler or gaskets as shown, to provide weathertight construction. Seal units following installation and as required to provide a weathertight system.



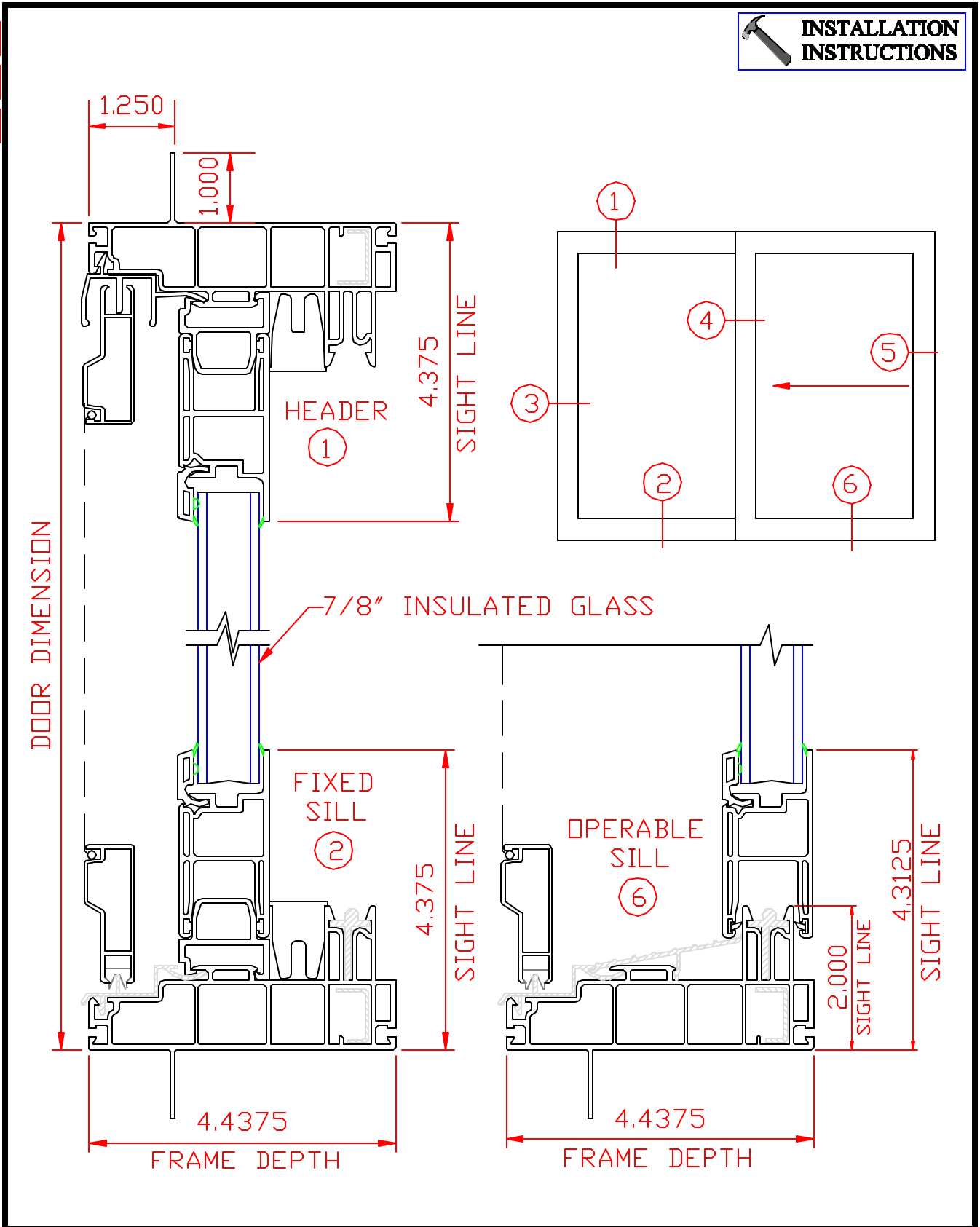
<p><b>VINYL GLIDE SERIES (SGD-R25) SPECIFICATIONS</b> SLIDING GLASS DOOR 4 1/2" FRAME DEPTH</p>
---

**3.04 ADJUST AND CLEAN:**

- A.** Adjust operating sash and hardware to provide tight fit at contact points and at weatherstripping. Adjust also for smooth operation and a weathertight closure.
- B.** Clean aluminum surfaces promptly after installation of doors, exercising care to avoid damage to the finish. Remove excess glazing and sealant compound, dirt and other substances. Lubricate hardware and moving parts.
- C.** Clean glass promptly after installation of doors. Remove glazing and sealant compound, dirt and other substances.
- D.** Initiate all protection and other precautions required to ensure that door units will be without damage or deterioration at time of acceptance.

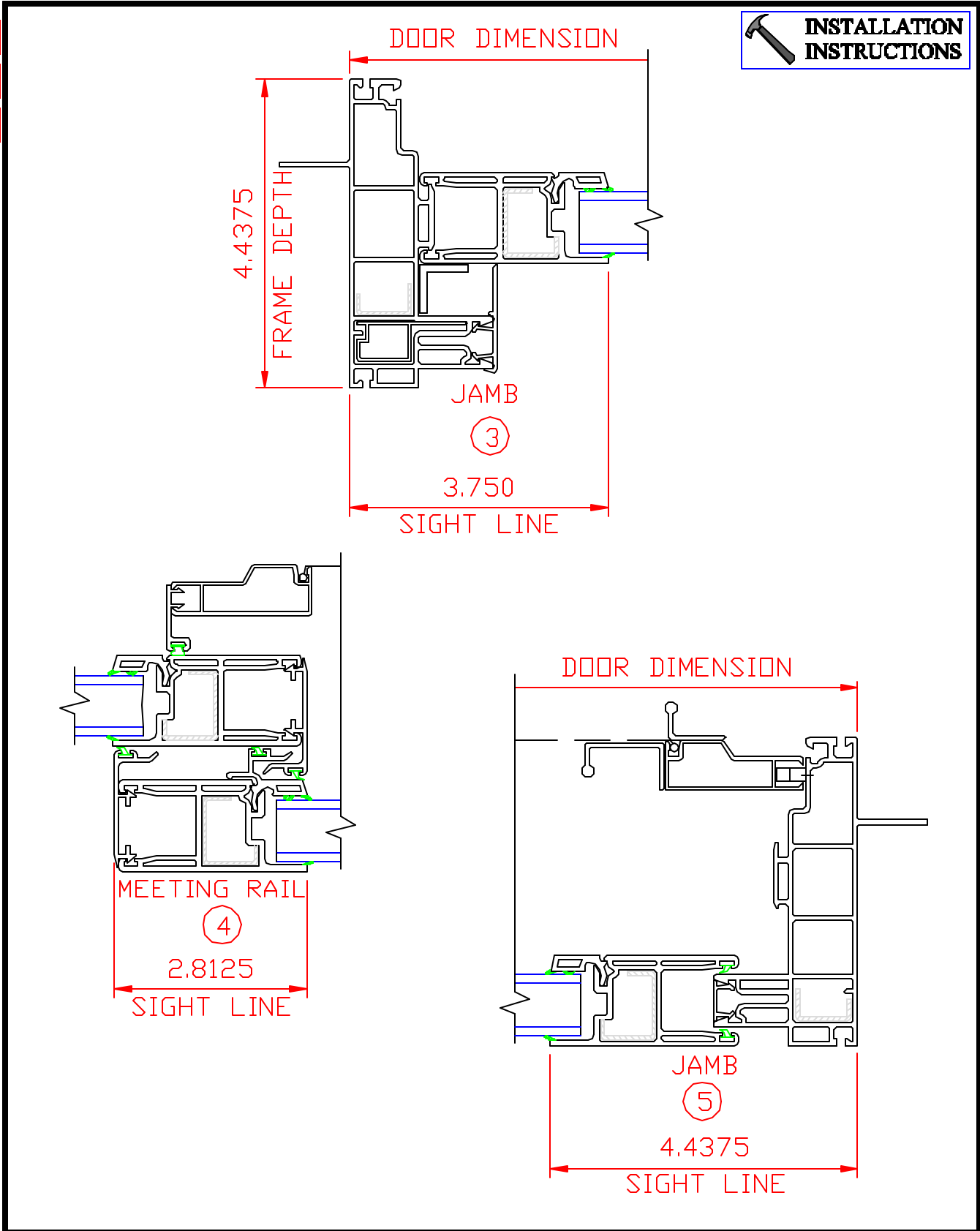
REVISED 7/03

- TEST INFORMATION
- SPECIFICATIONS
- FEATURES

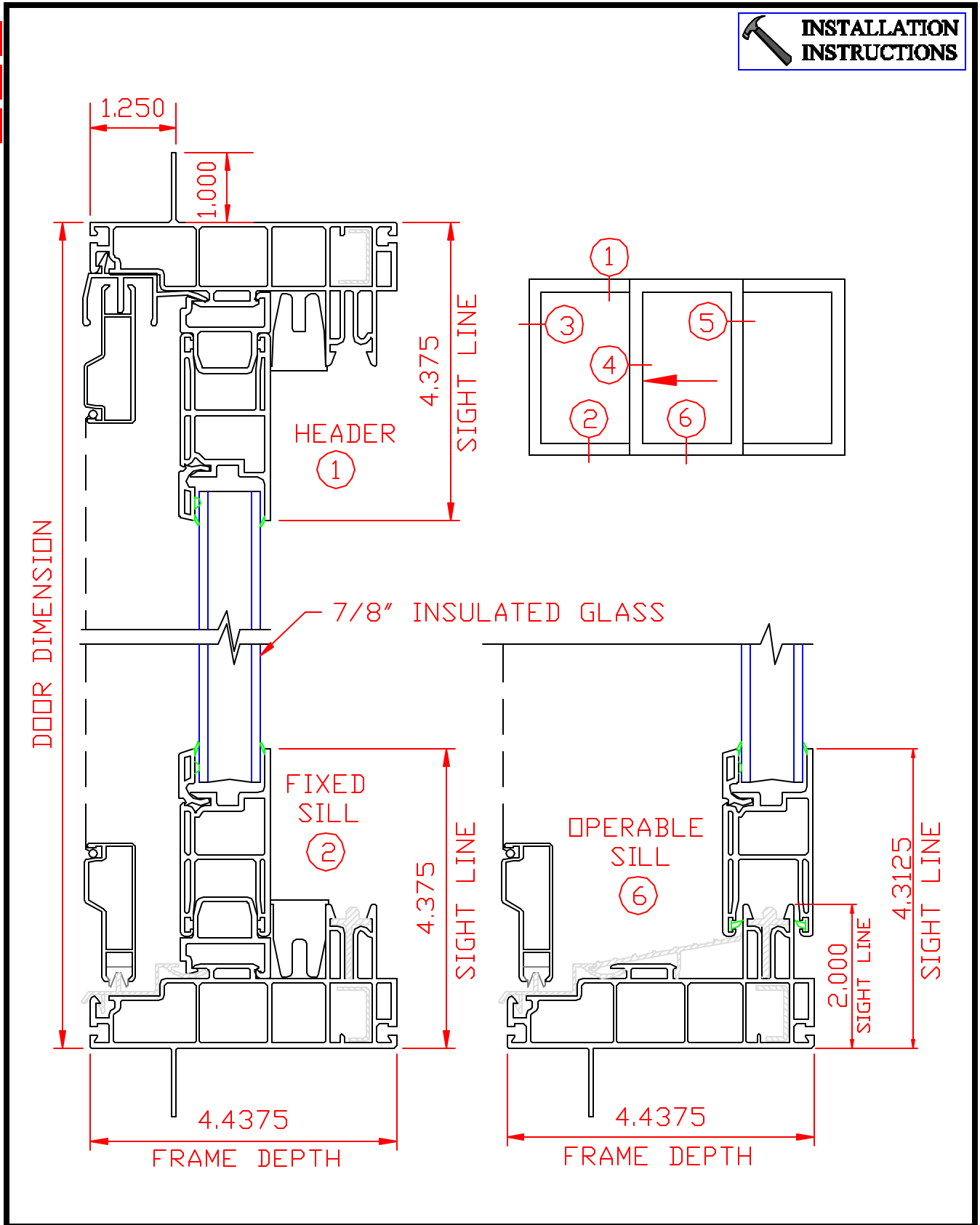




- TEST INFORMATION
- SPECIFICATIONS
- FEATURES

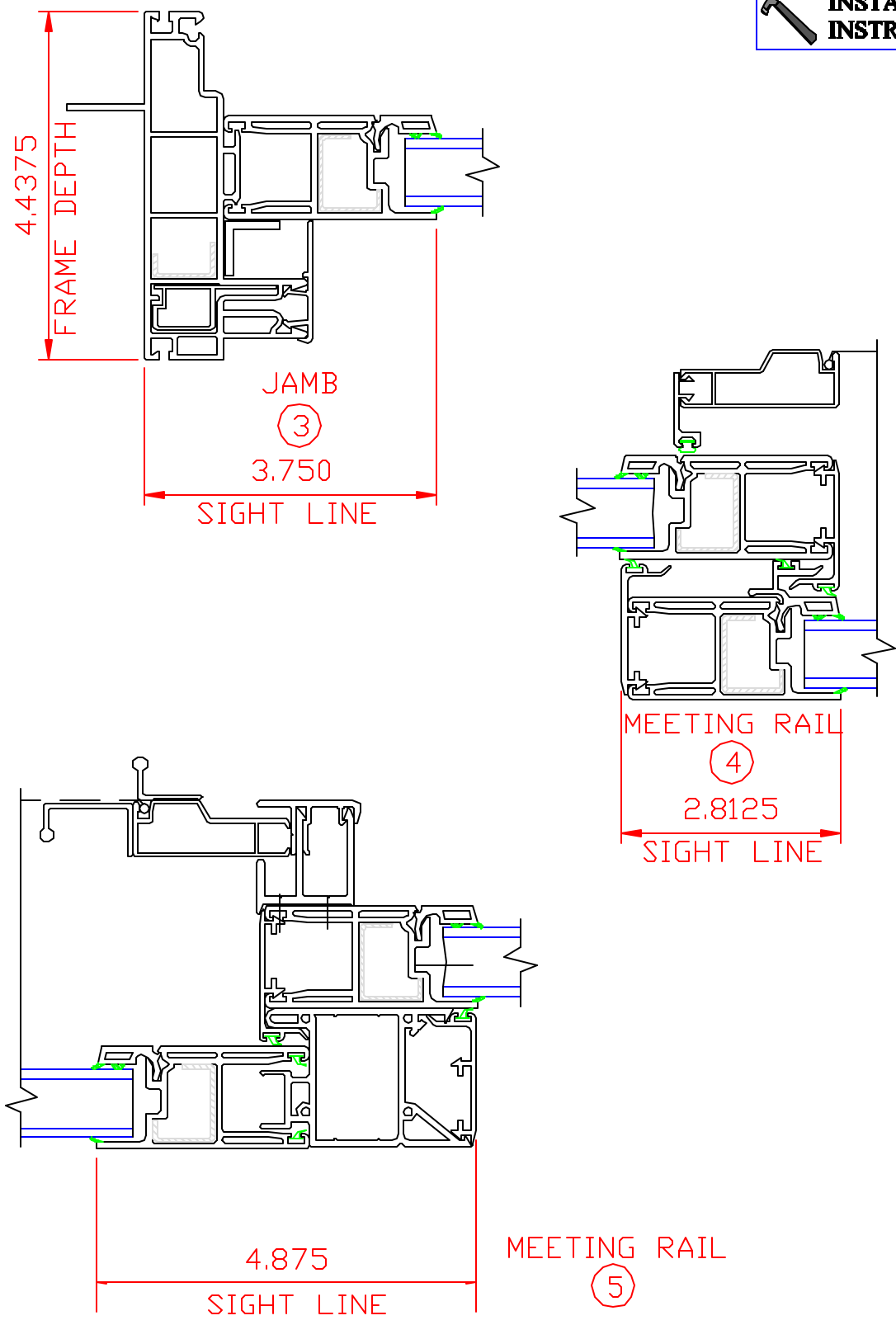


- TEST INFORMATION
- SPECIFICATIONS
- FEATURES

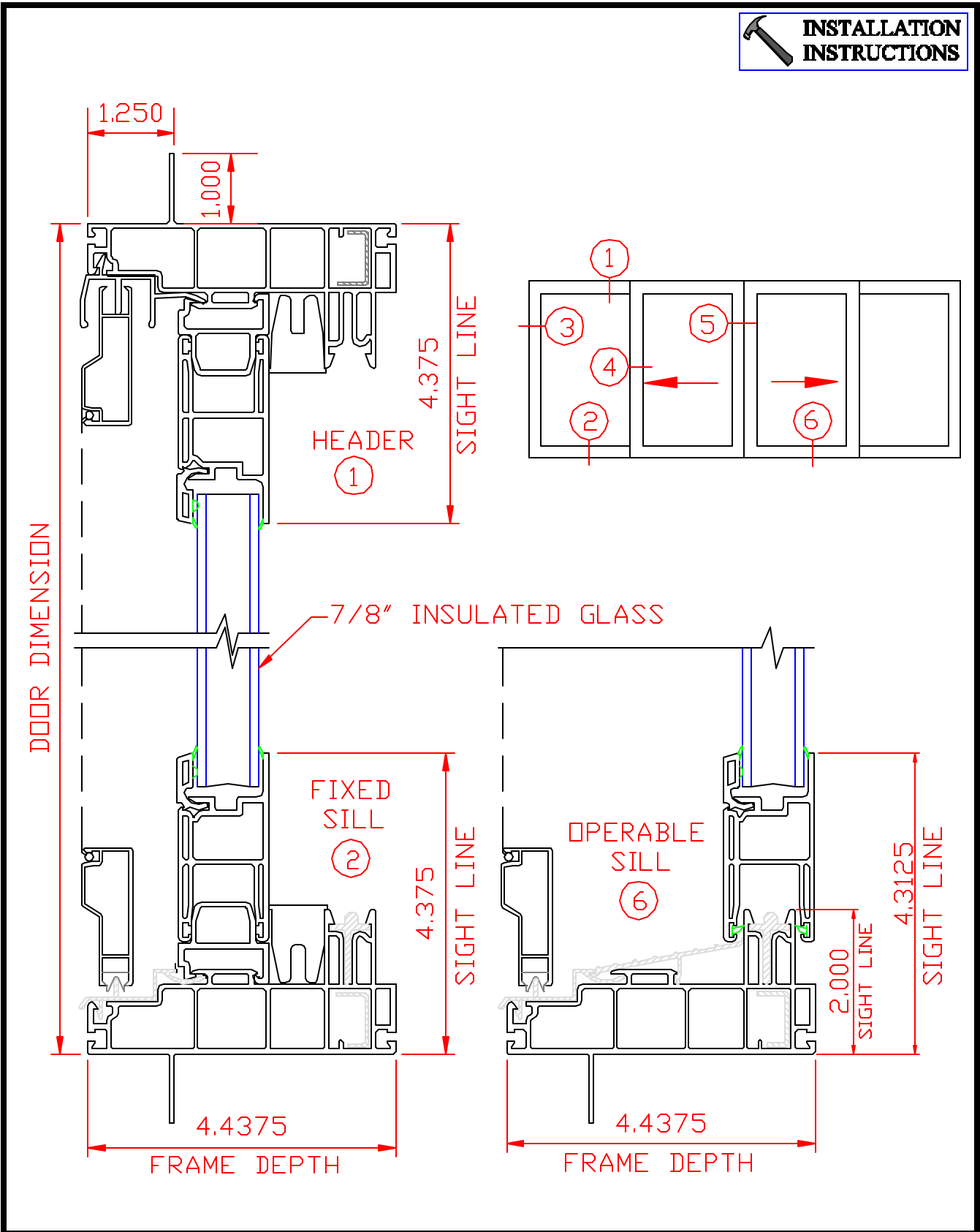


- TEST INFORMATION
- SPECIFICATIONS
- FEATURES

 **INSTALLATION INSTRUCTIONS**



- TEST INFORMATION
- SPECIFICATIONS
- FEATURES



**VINYL GLIDE 4 PANEL**

- TEST INFORMATION
- SPECIFICATIONS
- FEATURES

 **INSTALLATION INSTRUCTIONS**

