



# Architectural Specifications

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# Architectural Specifications

## PrivacyVue® Switchable Glass

### PART 1 - GENERAL

#### 1.1 DESCRIPTION

A. Work included: Provide specialty glazing and glazing accessories where shown on the drawings, as specified herein, and as needed for a complete and proper installation.

B. Related work:

1. Documents affecting work of this section include, but are not necessarily limited to General Conditions, Supplementary Conditions, and sections in Division 1 of these specifications. Please select appropriate sections.
2. Section 08410: Aluminium Entrances and Storefronts
3. Section 08300: Glass Doors
4. Section 08425: Automatic Entrance Doors
5. Section 08960: Sloped Glazing
6. Section 09875: Structural Sealant Glazing System
7. Section 07920: Sealants
8. Section 16050: Electrical
9. Section 08600: Wood Framing Applications
10. Section 08210: Wood Doors
11. Section 08100: Metal Doors & Frames
12. Section 08510: Steel Windows (Hollow Metal)

#### 1.2 QUALITY ASSURANCE

A. PrivacyVue® panels comply with the following:

1. Standards

- a. FGMA (Flat Glass Marketing Association)
- b. IGMA (Insulated Glass Manufacturers Association)

2. Certification/Ratings

- a. Safety Glazing
  1. CPSC (Consumer Products Safety Commission) 16 CFR 1201 Cat II
  2. ANSI (American National Standards Institute) Z97.1-2004. ANSI SAE Z26.1-1996 (safety glazing for motor vehicles)
- b. Sound Control
  1. ASTM International (American Society for Testing and Materials) E90-83 (sound transmission class), E90-87 (analysis)
  2. E413-87 (certification)

**PrivacyVue® Panel Sound Control Data**

Overall Thickness	Construction	STC Value
5/16" (8mm)	1/8" x 0.060 x 1/8"	35
7/16" (11mm)	3/16" x 0.060 x 3/16"	37
9/16" (14mm)	1/4" x 0.060 x 1/4"	39
1" (25mm)	3/16" x 1/2" airspace x 5/16" laminate	39

Sound Transmission Control (STC):

15–25 = poor; 26–35 = marginal; 36–45 = good; 45–55 = very good; 56 or higher = excellent

3. Others

- IGCC (Insulated Glass Certification Council) #681 per ASTM guidelines set forth in E-773 and certified to level CBA
- ASTM C-920 (elastomeric joint sealants)
- ASTM C-162 (standard terminology of glass and glass products)
- ASTM C-1036 (flat glass)
- ASTM C-1048 (heat-treated flat glass)
- ASTM C-1172 (laminated architectural flat glass)
- ASTM C-1422 (chemically-strengthened flat glass)
- ASTM C-1464 (bent glass)
- ASTM D1003 (haze and luminous transmittance of transparent plastics)
- ASTM E2190 (specification for insulating glass units)
- ASTM E2188 (accelerated weathering)
- ASTM E2189 (fog resistance)
- ASTM F-1637 (standard practice for safe walking surfaces)
- ASTM F-1646 (terminology relating to safety and traction for footwear)

4. These quality assurance provisions should be read in conjunction with the attached limited warranty. Dash Door's obligations with respect to replacement of PrivacyVue® panels are limited to the terms set forth in the attached limited warranty and any conflict between the quality assurance guidelines herein and the limited warranty attached hereto shall be resolved in favor of the latter.

**1.3 GLAZING PERSONNEL**

Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of these sections.

**1.4 SUBMITTALS**

- A. Comply with pertinent provisions of section 01340.
- B. Product data: Within 60 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
  - 1. Materials list of items proposed to be provided under this section.
  - 2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements.
  - 3. Manufacturer's recommended installation procedures which, when approved by the Architect, will become the basis for accepting or rejecting actual installation procedures used on the work.
- C. Samples: Accompanying the above product data, submit:
  - 1. Samples of each type of gasket proposed to be used.
  - 2. Samples of each type of sealant proposed to be used, tested for each substrate involved (ADD-certified by sealant supplier if organic coating involved) proving compliance with manufacturer's recommended sealants for use with specialty glass.

### 1.5 PRODUCT HANDLING

- A. Comply with pertinent provisions of section 01640. Refer to section 1.2 Quality Assurance for the Applicable ASTM standards for proper laminated glass handling.
- B. Follow strict glass handling and storage recommendations of referenced standards, including any special instructions from the specialty glass manufacturer. Refer to Appendix II, 4A, for the manufacturer's recommendations.

### 1.6 WARRANTIES

See warranty at the end of this binder or as provided in the project specific proposal.

## PART 2 - PRODUCT

### 2.1 GLASS

- A. General
  - 1. All glass complies with ASTM C-106-06.
  - 2. Provide the type and thickness shown on the Drawings or specified herein.
  - 3. Where type or thickness, or both are not shown on the Drawings or as specified herein, provide type and thickness directed by the Architect.
  - 4. PrivacyVue® panel WILL be given a safety certification label unless otherwise specifically directed by the Architect.
- B. Float glass-clear: Type 1, Glass 1, Quality q3.
- C. Heat Absorbing glass: Type 1, Class 2, Quality q5.
- D. Tempered glass: Comply with ASTM C-1048-85 and Z976.1-84.
- E. Laminated Glass:
  - 1. Provide specialty clear and/or tinted panels consisting of an outerface and inner face of q5 float glass laminated under heat and pressure to a liquid crystal film, a proprietary product PrivacyVue® by Dash Door & Glass, Miami, FL (305) 477-1164, fax (305) 477-2502, email: info@privacyvue.com
  - 2. PrivacyVue® panels with widths exceeding maximum width of 60" (contact a PrivacyVue® representative for these larger dimensions) will be manufactured with two butt-jointed liquid crystal films laminated into a single panel.
  - 3. Alternative Butt Joint Applications – See section 2.2 B.1.a
  - 4. PrivacyVue® Glass Optical performance – See page 8 Technical Data.
  - 5. Glass used: PrivacyVue® can be annealed, heat strengthened, or tempered.

### 2.2 OTHER MATERIALS

- A. Special Electrical Conditions
  - 1. For all fixed panel installation, a separate PrivacyVue® AC Adapter shall be provided for each 60 square feet or fraction thereof. Power source of 110 VAC, 60 Hz electricity must be supplied from a GFI circuit or equivalent standard breaker (see 1.1. on p.21). The AC Adapter should be connected to an accessible standard double junction box connected to ground continuity.
  - 2. For all swing panel installations, the AC Adapter should be located near the hinge side of door/window jamb and all installation is to conform to manufacturer's instructions.

- B. Special Glazing Requirements
  - 1. Interior Butt Glazing
    - a. PrivacyVue® panels can be butt glazed using a recommended minimum 7/16" thickness panel.
    - b. A standard neutral cure structural silicone sealant may be used to close the joint. A minimum of a ¼" separation between panels is recommended.
    - c. Refer to applicable local building codes for design load requirements regarding interior glazing.
  - 2. Swing Doors/Windows
    - a. Swing door/window units may be glazed with PrivacyVue® panels.
    - b. Door package will be complete with door header, door leaf, power transfer device, and all other hardware. Finish, cladding, hardware and keying may be selected as options.
    - c. Window Package will be complete with sash, frame, power transfer device and all hardware. Finish cladding and hardware may be selected as options.
- C. Provide other material, not specifically described but required for a complete and proper installation, as specified or selected by the Contractor subject to the approval of the Architect.

## PART 3 - EXECUTION

### 3.1 SURFACE CONDITIONS

- A. The purchaser must examine the areas and conditions under which work of this section will be performed. Correct conditions are critical to the timely and proper completion of this work. Do not proceed until unsatisfactory conditions are corrected. Refer to ASTM Glass and Glazing Standards for the Building Industry for the applicable and satisfactory conditions.
- B. After preparation of the glazing system, clean glazing channels, stops and rabbets to receive the glazing materials, making free from obstructions and deleterious substances which might impair the work.
  - 1. Remove protective coating which might fall in adhesion or interfere with bond of sealants.
  - 2. Comply with manufacturers' instructions for final wiping of surfaces immediately prior to application of primer and glazing compounds or tapes. USE ONLY NEUTRAL CURE SILICONES. DO NOT USE ACETIC SILICONES.

### 3.2 INSTALLATION

- A. Inspect each piece of glass immediately prior to start of installation.
  - 1. Do not install items which are improperly sized, have damaged edges, or are scratched, abraded, or deficient in any other manner.
  - 2. Do not remove labels that were provided by the glass supplier from the glass until so directed by the Architect.
  - 3. Adhere to all PrivacyVue® installation instructions and installation drawings (for a sample wall installation, see Appendix VII on P. 30). For multi-panel wiring instructions, see Shop Drawing on p. 32.
- B. Locate sill setting blocks of standard width and thickness at quarter points of all glass lights unless otherwise recommended by manufacturer or supplier.
  - 1. Use blocks of proper durometer, size and thickness to support the glass in accordance with the manufacturer's recommendations.
  - 2. Glass lap and edge clearances must be provided according to pertinent codes and standards of manufacturer's.

- C. Set Glass in a manner which produces the greatest possible degree of uniformity in appearance.
  - 1. Installation of the glass in dynamic frames such as operable windows or sliding doors must meet architectural specifications.
  - 2. Glazing to the exterior and wet interior conditions must be wet-sealed and impervious to moisture with provisions to allow for weeping of condensation that may infiltrate the system.
  - 3. Pressure glazing systems without positive positioning stops are not to be used with this glass.
  - 4. Glazier has to place electrical connections properly to allow access by an electrician.
  - 5. Electrical connections must exit at the head condition of any framing system using PrivacyVue® panels in wet environment applications.
- D. Cut and seal the joints of glazing gaskets in accordance with the manufacturers' recommendations, provide watertight and airtight seal at corners and other locations where joints are required.
- E. The terms of the limited warranty attached are applicable to the extent that proper installation techniques are utilized.

### 3.3 PROTECTION

Protect glass from breakage after installation by promptly installing streamers of ribbons, suitably attached to the framing and held free from the glass. Do not apply warning markings, streamers, ribbons, or other items directly to the glass except as specifically directed by the Architect.

Note: Windblown objects, welding sparks, or the material applied to the glass surface during construction may cause irreversible damage.

### 3.4 CLEANING

Cleaning of the glass during the subsequent weathering period is necessary. Abrasive cleaners should never be used, particularly when the surface to be cleaned has a reflective coating. Clean the panels with mild soap or very weak acid (vinegar) applied with a soft, clean, grit-free cloth. The glass and framing should be rinsed immediately with water and the excess should be squeezed away from glass, taking care not to contact the glass with any metal parts. The framing should be wiped dry.



ON



OFF