



SECTION08850

PLASIC HYBRID STAINNESS STEEL INSULATING GLASS SPACER

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Plastic Hybrid Stainless Steel (PHSS) Insulating Glass Spacers.

1.2 RELATED SECTIONS

- A. Section 08310 - Sliding Doors.
- B. Section 08520 - Aluminum Windows.
- C. Section 08800 - Glass and Glazing.
- D. Section 08900 - Curtain Wall.
- E. Section 08960 - Slope Glazing.

1.3 REFERENCES

- A. ASTM E 773 Standard Test Method for Accelerated Weathering of Sealed Insulating Glass Units.
- B. ASTM E 774 Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units.
- C. ASTM E 2190 Standard Specification for Insulating Glass Unit Performance and Evaluation.
- D. ASTM E 2188 - Standard Test Method for Insulating Glass Unit Performance.
- E. ASTM E 2189 - Standard Test Method for Testing Resistance to Fogging in Insulating Glass Units.
- F. ASTM G 154 - Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. TGI-Spacer by Technoform Glassinsulation has been tested in accordance with the following:

1. ASTM E 773 - Accelerated weathering.
2. ASTM E 774 (CBA) - Accelerated weather cycling.
3. ASTM E 2190 (HIGS) - Accelerated weathering.
4. ASTM E 2188 - IGU performance.
5. ASTM E 2189 - Resistance to fogging.
6. ASTM G 154 - UV exposure Compression resistance Torsional rigidity.

#### 1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  1. Preparation instructions and recommendations.
  2. Storage and handling requirements and recommendations.
  3. Installation methods.
- C. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and patterns.
- D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- E. Glass Fabricator's Certificates: Provide glass manufacturer's certificate of acceptance for the terms of warranty and acceptance of edge systems structural adequacy for project specific sizes and conditions.

#### 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Utilize a Window fabricator having demonstrated experience on projects of similar size and complexity.

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging with identification labels intact until ready for installation.
- B. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

#### 1.8 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

#### 1.9 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

#### 1.10 WARRANTY

- A. Manufacturer's Warranty on Insulating Glass: Standard insulating glass manufacturer's warranty applies.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Technoform Glass Insulation North America, Inc., which is located at: 1755 Enterprise Pkwy. Suite 300 ; Twinsburg, OH 44087; Tel: 330-487-6600; Email: [request info \(info@technoform.us\)](mailto:info@technoform.us); Web: [www.technoform.us](http://www.technoform.us)
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

## 2.2 INSULATING GLASS SPACERS

- A. Plastic Hybrid Stainless Steel (PHSS) insulating glass spacer:
  - 1. TGI-Spacer by Technoform Glassinsulation:
    - a. Material: Stainless steel and a low conductivity thermoplastic.
    - b. Size: Specify size from manufacturer's standard sizes.
    - c. Color:
      - 1) White (RAL 9016)
      - 2) Light Gray (RAL 7035)
      - 3) Black (RAL 9005)
      - 4) Bronze/Dark Brown
      - 5) Champagne

## 2.3 FABRICATION

- A. Shop Assembly: Fabricate insulating glass units in compliance with spacer manufacturer's recommendations. Coordinate with insulating glass specified in Section 08800.
- B. Utilize standard insulating glass fabrication equipment including benders for radius configurations.

## 2.4 SOURCE QUALITY CONTROL

- A. Tests, Inspection: Ensure manufacturer's compliance with ISO registration mandates in the production of the specified glazing accessories.
- B. Establish and maintain documented procedures for inspection and testing criteria to ensure compliance with specified requirements.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

B. Coordinate with Section 08800 - Glass and Glazing.

#### 3.4 CLEANING

A. Clean newly installed glass and window frames after installation.

B. Remove all sealants, caulking, and other misplaced materials from all surfaces.

C. Use materials and methods recommended by the window and glass manufacturer that do not cause defacement of work.

#### 3.5 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION