



**SECTION 08 88 19
HURRICANE RESISTANT GLASS BLOCK WINDOWS / PANELS**

PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Hurricane Resistant Glass Block Systems

1.2 RELATED SECTIONS

- A. Section 05 50 00 - Metal Fabrications: Steel channels, sills, lintels, and jambs.
- B. Section 07 90 00 - Joint Sealers.
- C. Section 09 90 00 – Paints and Coatings

1.3 REFERENCES

- A. ASTM E283 - 04 Standard Test Method for Determining the Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors under Specified Pressure and Temperature Differences across the Specimen.
- B. ASTM E330 -02 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
- C. ASTM E547 -00 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference.
- D. ASTM B209M -07 Standard Specification for Aluminum and Aluminum–Alloy Sheet and Plate.
- E. ASTM C920 -08 Standard Specification for Elastomeric Joint Sealants.
- F. ASTM E1886-05 and ASTM E 1996 –09 Impact and Cycle Tests
- G. Miami-Dade County Test Standards (Dade and Broward Counties):
 - Test Protocol TAS 201 – Large and Small Missile Impact Tests
 - Test Protocol TAS 202 – Air, Water, Structural Tests
 - Test Protocol TAS 203 – Cyclic Wind Pressure Loading Tests
- H. Notice of Acceptance Label (NOA) Issued by Miami-Dade County Product Control Division.
- I. Acceptance: The State of Florida Product Approval Number – Florida Building Code
- J. Tested in accordance with AAMA/WDMA/CSA 101/1.S.2/A440-05

1.4 QUALITY ASSURANCE

- A. Manufacturer
 - 1. Minimum of 10 years specialized experience in the manufacture of windows.
- B. Direct Representation
 - 1. The manufacturer shall have available a direct representative, not a manufacturer's representative, with full knowledge and experience of the products and systems incorporated in this project, to verify the installation of the contractor's work.(if required)

1.5 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Product Data: Manufacturer's literature on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Written Installation Instructions.
- C. Verification Samples:
 - 1. Two glass block units of each type specified, showing size, design, and pattern of faces as required for project.
 - 2. Representative samples of assembly as required for project.

D. Test Reports

1. Submittal of test reports from independent laboratories indicating conformance to regulatory requirements shall be made available if required by architect.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Handle panels in a manner which will prevent undue stress on component parts, sealants and structural members. Do not rack or torque, or cause load forces in an inappropriate manner.

1.7 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.

1.8 WARRANTY

- A. Provide manufacturers limited 5-year warranty.

1.9 CERTIFICATION

- A. Manufacturer will provide a "Certificate of Compliance" upon completion of installation attesting that all components and installation conforms to the requirements on drawings and in specifications. **Note: if applicable to the job.**

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Seves Glass Block Inc.
10576 Broadview Rd, Cleveland, Ohio 44147
440-627-6257 or 877-SEVES11 (877-738-3711)
www.sevesglassblockinc.com inquiry@sevesglassblock.com

2.2 SYSTEM DESCRIPTION

- A. Design Requirements
 1. Hurricane resistant system shall conform to the requirements specified for the particular items and shall be complete assemblies by a single manufacturer.
- B. Performance Requirements
 1. The system shall be Hurricane Resistant to the threat level specified.
- C. Basis for Design
 1. SEVES LightWise® Architectural Hurricane Resistant Series

2.3 GLASS BLOCK

- A. Basis for Design: Seves THICKSET® 90 Series
 1. Patterns:
 - a. THICKSET® 90 Clarity
 - b. THICKSET® 90 Nubio
 - c. THICKSET® 90 Endura
 2. Physical Properties:
 - a. Nominal Size; Face: 8 inches (203mm) by 8 inches (203mm) by 4 inches (100mm) thick with 3/4" thick faces or smaller sizes
 - b. Installed Weight 24 lb/sq. ft
 - c. Thermal Conductance (U Value): 0.50 Btu/hr sq ft deg F
 - d. Thermal Resistance (R Value): 2.00 deg F hr sq ft/Btu
 - e. Visible Light Transmission: 38%-70% (dependent on pattern)
 - f. Sound Transmission: STC 48
 - g. Edge Coating: Latex Paint

2.4 ACCESSORIES

- A. Sealant (caulk): Non-staining; waterproof mastic; silicone type meeting the requirements of ASTM C920
- B. Aluminum 2-piece Channel System: Alloy and thickness per prescribed hurricane condition, anodized or powder coated as required.
- C. Anchorage: Self-tapping screws and masonry anchors per prescribed hurricane condition and substrate
- D. Shims: Plastic type shims as required

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Notify architect of unsatisfactory preparation before proceeding.
- C. Verify that channels for support at head, jambs and sills are properly installed.

3.2 PREPARATION

- A. 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 Hurricane-Resistant Glass Block System in strict compliance with the manufacturers' specifications, sizing, anchorage charts and installation instructions including all materials, accessories, workmanship and cleaning.

3.4 CLEANING

- A. Remove excess sealant from glass surfaces immediately following application.

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 08 88 19