SOUTHEASTERN DOOR COMPANY

SERIES 5000 SLIDING GLASS DOOR SPECIFICATION GUIDE

For impact glazing applications

PART **1 – GENERAL**

Appendix 1: Aluminum Sliding Glass Door drawings (enter descrition).

Appendix 2: Installation: Labor, Tools, and Materials needed to install doors complete with hardware and related components (enter descrition).

Appendix 3: Glass and glazing (enter descrition).

REFERENCES:

AAMA – American Architectural Manufacturers Association.

1. **AAMA 701-92** "Voluntary Specifications for Pile Weather-stripping."
2. **AAMA/NWWDA 101/1.S.2-97** "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows."
3. **AAMA CW-10-97** "Care & Handling of Architectural Aluminum from Shop to Site."
4. **AAMA 800-92** "Voluntary Specifications and Test Methods for Sealants."
5. **AAMA 906-96** "Voluntary Specifications for Sliding Glass Door Roller Assemblies."
6. **AAMA/NWWDA** 1303.5 Forced Entry
7. **AAMA 2604-98** "Performance requirement and test procedures for coatings on Aluminum Extrusions

ASTM – American Society for Testing Materials:

1. **ASTM E283-04** – Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors under Specified Pressure Differences across the Specimen
2. **ASTM E330-02** – Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
3. **ASTM E331-00** – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference
4. **ASTM F842-04** – Standard Test Methods for Measuring the Forced Entry Resistance of Sliding Door Assemblies
5. **ASTM E1886-05** – Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
6. **ASTM E1996-06** – Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes

Florida Building Code TAS 201-94 – Impact Test Procedures
Florida Building Code TAS 202-94 – Criteria for Testing Impact & Non-impact Resistant Building Envelope Components using Uniform Static Air Pressure
Florida Building Code TAS 203-94 – Criteria for Testing Products Subject to Cyclic Wind Pressure Loading

SYSTEMS DESCRIPTION:

1. Doors: Aluminum extrusions 6063- T6 alloy and temper, minimum wall thickness .080”
2. Frames depth: two track 3.625”, three track 5.25”, four track 6.75” and five track 8.50”. Interlock stiles depth of 2.75” x 2.75” wide. Lock stiles depth 1.125” x 3.50” wide. Horizontal panel stiles depth 1.00” x 3.50” height.
3. Configurations: Unlimited number of panels that can be configured on a five track system.
4. Glazing: Panels are dry glazed with a 3/4” glass bite.

PERFORMANCE REQUIREMENTS:

1. Air infiltration maximum allowable at .30 cfm/square foot when tested per ASTM E 283 at a static air pressure difference of 6.24 psf., equal to wind at 50 mph.
2. Air infiltration measured by independent laboratory tests was .103 when testing at 6.24psf
3. Water penetration: No uncontrolled water leakage when tested per ASTM E 331 at a static air pressure of: 15% of the positive DP.
4. 2.00” Sill Height = 7.5psf
   3.25” Sill Height = 13.5psf
5. Uniform Structural Load: No glass breakage, permanent damage to fasteners or hardware, or any other damage which would cause the door to be inoperable, and tested per ASTM E 330 at a static air pressure of:

   Panel Size: 4’ x 8’ w/o reinforcement +/-105psf with a DP of +/-70psf
   Panel Size: 4’ x 8’ w/reinforcement +/-135psf with a DP of +/-90psf
   Panel Size: 4’ x 9’ w/reinforcement +/-105psf with a DP of +/-70psf
   Panel Size: 5’ x 7’ w/reinforcement +/-115psf with a DP of +/-77psf
   Panel Size: 3’ x 10’ w/reinforcement +/-87psf with a DP of +/-58psf

QUALITY ASSURANCE:

All sliding glass doors shall be Series 5000 as Manufactured by Southeastern Door Company 1505 Commerce Lane, Jupiter, Florida 33458 Phone 561-746-5493 Fax 561-575-1826.

Manufacturer's Warranties:

1. Door Warranty: for three (3) year against defects in materials or workmanship under normal use. **Note:** Only composite handles are covered under this warranty.

2. Laminated Glass Warranty: DuPont Sentry Glas laminated products shall be warranted ten (10) years.

3. Paint finish: Powder Coat white or charcoal bronze finish meeting AAMA 2604 is warranted against chip, crack and peel for the period of (5) years.

PART 2 – PRODUCTS

MATERIALS:

1. Aluminum Extrusions: 6063-T6 alloy and temper with minimum wall thickness of .080" at frame and panel members.
2. Operating panel hardware: Two Aluminum tandem wheel housings conforming to AAMA 906-96: Each housing contains two adjustable 1-1/4" Zytel nylon wheels. Dual point adjustable mortise lock with interior latch lever. Powder coated pull handles.
3. Weather-stripping: Dual rows of fin seal weather-stripping in panel stiles and Jambs conforming to AAMA 701-92.
4. Screens: Exterior mount extruded hollow aluminum sections with depth of 1-1/8" x 2-1/2" wide. Two Aluminum wheel housings, each housing containing one adjustable 1-1/4" nylon wheel.

FABRICATION:

1. Frame: At each corner, the jamb is notched while frame head or sill track end is square cut and butted against the adjoining frame jamb (no fasteners required). Sill track to jamb and head corners field sealed.
2. Sill protection: 204 (30min.) Clear Anodized track with a 2.00" or 3.25" sill height.
3. Water control: Sill to have Weep holes at center of each panel on track surface and built in drain pans to allow proper drainage. ***Interior exposed weep holes to be blocked with a factory plug***
4. Panels: Vertical stiles at both adjoining member ends are square cut, slid together using (2) #14x1 SS PH

GLAZING:

The drawings shall indicate the specific glazing for project. Listed below are the available systems that meet the **Impact Glazing Codes**.

1. **9/16 laminated**, clear or tinted, to meet large and /or small missile impact requirements.(both surfaces must be heat strengthened)

2. If **Turtle Code** requirements must be met, the gray tinted glass shall block 44% of the visible light transmittance.
3. **Small Missile Glazing** 1/4" H.S Glass .060 DuPont Butacite interlayer 1/4" H.S Glass

4. **Small Missile Glazing** 1/4" H.S Glass .035 DuPont Sentry Glas Pus interlayer 1/4" H.S Glass
5. **Large Missile Glazing** 1/4" H.S Glass .090 DuPont Sentry Glas Plus interlayer 1/4" H.S Glass
6. **Large Missile Glazing** 1/4" H.S Glass .100 DuPont Sentry Glas Plus interlayer 1/4" H.S Glass ***(This glazing option must be used when module exceeds 33sq. feet)***

FINISH ON ALUMINUM EXTRUSIONS:

1. Standard Coating: Interpon Powder Coat AAMA 2604 white or charcoal bronze or any custom color selected by the architect.
2. Alternate Coatings: Interpon Powder Coat AAMA 2605.

PART 3 – EXECUTION

PREPARATION

Prepare openings to be in tolerance, plumb, level, provide for secure anchoring, and in accordance with approved shop drawings.

INSTALLATION

1. Install doors in accordance with manufacturer's recommendations and approved shop drawings with skilled craftsmen who have demonstrated a successful history of installing doors for more than four years.
2. Provide required support and security fasteners and set door frames plumb, square, and level without twist or bow.
3. Apply sealant per specifications and sealant manufacturer's recommendations, wipe off excess and leave exposed sealant clean and smooth.

ADJUSTING AND CLEANING

Adjust door panels as necessary for smooth and weather-tight operation, and leave doors clean and free of construction debris.

END OF SECTION

Appendix 1- Aluminum Sliding Glass Door drawings:

Appendix 2- Installation: Labor, tools, and materials needed to install doors complete with hardware and related components:

Appendix 3- Glass and Glazing: