Special-Lite, Inc. January 2016

PO Box 6

Decatur, Michigan 49045

Toll Free (800) 821-6531

Phone (269) 423-7068

Fax (800) 423-7610

Web Site www.special-lite.com

E-Mail info@special-lite.com

 **Product Guide Specification**

| Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat, SectionFormat,* and *PageFormat,* as described in *The Project Resource Manual—CSI Manual of Practice.*The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" when editing this section.Section numbers and titles are from *MasterFormat* 1995 Edition, with numbers and titles from *MasterFormat* 2004 Edition in parentheses. Delete version not required. |
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 **SECTION 08255 (08 17 43)**

 **FRP SANDSTONE TEXTURE BASIX™ FLUSH DOORS**

| Specifier Notes: This section covers Special-Lite Basix sandstone texture, fiberglass reinforced polyester (FRP) flush doors. Consult Special-Lite for assistance in editing this section for the specific application. |
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**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

A. Sandstone texture, fiberglass reinforced polyester (FRP) flush doors.

**1.2 RELATED SECTIONS**

| Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section. |
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A. Section 08710 (08 71 00) - Door Hardware.

**1.3 REFERENCES**

| Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used. |
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B. ASTM B 209 - Aluminum and Aluminum-Alloy Sheet and Plate.

C. ASTM B 221 - Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

H. ASTM D 1621 - Compressive Properties of Rigid Cellular Plastics.

I. ASTM D 1623 - Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics.

J. ASTM D 2126 - Response of Rigid Cellular Plastics to Thermal and Humid Aging.

1. ASTM D 6670-01 - Standard Practice for Full-Scale Chamber Determination of Volatile Organic Emissions from Indoor Materials/Products.
2. ASTM E 84 - Surface Burning Characteristics of Building Materials.

**1.4 PERFORMANCE REQUIREMENTS**

1. Surface Burning Characteristics, Sandstone Texture Doors and Panels, ASTM E 84:

 1. Flame Spread: Maximum of 200, Class C.

 2. Smoke Developed: Maximum of 450, Class C.

1. Compressive Strength, Foam Core, Nominal Value, ASTM D 1621: 79.9 psi.
2. Compressive Modulus, Foam Core, Nominal Value, ASTM D 1621: 370 psi.
3. Tensile Adhesion, Foam Core, Nominal Value, ASTM D 1623: 45.3 psi.
4. Thermal and Humid Aging, Nominal Value, 158 Degrees F and 100 Percent Humidity for 14 Days, ASTM D 2126: Minus 5.14 percent volume change.

**1.5 SUBMITTALS**

A. Comply with Section 01330 (01 33 00) - Submittal Procedures.

B. Product Data: Submit manufacturer's product data, including description of materials, components, fabrication, finishes, and installation.

C. Shop Drawings: Submit manufacturer's shop drawings, including elevations, sections, and details, indicating dimensions, tolerances, materials, fabrication, doors, panels, framing, hardware schedule, and finish.

D. Samples:

1. Door: Submit manufacturer's sample of door showing face sheets, core, framing, and finish.

2. Color: Submit manufacturer's samples of standard colors of doors and frames.

E. Test Reports: Submit test reports from qualified independent testing agency indicating doors comply with specified performance requirements.

F. Manufacturer's Project References: Submit list of successfully completed projects including project name and location, name of architect, and type and quantity of doors manufactured.

G. Maintenance Manual: Submit manufacturer's maintenance and cleaning instructions for doors, including maintenance and operating instructions for hardware.

H. Warranty: Submit manufacturer's standard warranty.

**1.6 QUALITY ASSURANCE**

A. Manufacturer's Qualifications:

1. Continuously engaged in manufacturing of doors of similar type to that specified, with a minimum of 25 years successful experience.

2. Continuously engaged in the injection of expanded foam core doors of similar type and material to that specified, with a minimum of 10 years successful experience.

2. Evidence of a compliant documented quality management system.

**1.7 DELIVERY, STORAGE, AND HANDLING**

1. Product shall be shipped by manufacturer, palletized and banded with edge guards and

 protective packaging to protect against damages.

1. All material upon receipt shall be inspected for damage, and the shipper and the supplier

 notified if damage is found.

C. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.

D. Handling: Protect materials and finish from damage during handling and installation.

**1.8 WARRANTY**

| Specifier Notes: Consult Special-Lite for additional warranty information. |
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1. Warrant doors against failure in materials and workmanship.

B. Warranty Period: Two years starting on date of shipment.

**PART 2 PRODUCTS**

**2.1 MANUFACTURER**

A. Special-Lite, Inc., PO Box 6, Decatur, Michigan 49045. Toll Free (800) 821-6531. Phone (269) 423-7068. Fax (800) 423-7610. Web Site www.special-lite.com. E-Mail info@special-lite.com.

**2.2 FRP SANDSTONE TEXTURE FLUSH DOORS**

A. Model: Basix Sandstone Texture Doors with fiberglass reinforced polyester (FRP) face sheets.

| Specifier Notes: Specify the door opening size. |
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B. Door Opening Size: [3’0” x 6’8”] [3’0” x 7’0”] [3’6” x 7’0”] [4’0” x 7’0”].

C. Construction:

1. Door Thickness: 1-3/4 inches.

2. Stiles and Rails: Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes.

3. Corners: Mitered.

4. Securing Door Extrusions: 3/16-inch angle corner blocks.

5. Furnish extruded stiles and rails with integral reglets to accept face sheets.

6. Rail caps or other face sheet capture methods are not acceptable.

7. Glue: Use of glue to bond sheet to core or extrusions is not acceptable

8. Door width shall be undersized by 5/8” to accommodate for a continuous hinge.

9. Reinforcement shall provide for universal attachment of door closers.

D. Face Sheet:

1. Material: sandstone FRP, 0.090-inch thickness, grey.

2. Texture: Sandstone.

1. Paint: Must be painted in the field within 30 days of installation to comply with manufacturer’s warranty.

E. Core:

1. Material: Poured-in-place polyurethane foam.

2. Density: Minimum of 5 pounds per cubic foot.

3. R-Value: Minimum of 9.

F. Hardware Pocket:

1. Innovative lock pocket adapts to a cylindrical lock, mortise lock or rim exit device.

2. Innovative lock pocket and adjustable latching reinforcements shall adapt to pre-determined doorframe strike height.

**2.3 MATERIALS**

A. Aluminum Members:

1. Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes: ASTM B 221.

2. Sheet and Plate: ASTM B 209.

3. Alloy and Temper: As required by manufacturer for strength, corrosion resistance, application of required finish, and control of color.

B. Fasteners:

1. Material: Aluminum, 18-8 stainless steel, or other noncorrosive metal.

2. Compatibility: Compatible with items to be fastened.

3. Exposed Fasteners: Screws with finish matching items to be fastened.

**2.4 FABRICATION**

A. Sizes and Profiles: Required sizes for door and frame units, and profile requirements shall be as indicated on the Drawings.

B. Coordination of Fabrication: Field measure before fabrication and show recorded measurements on shop drawings.

C. Assembly:

1. Complete cutting, fitting, forming, drilling, and grinding of metal before assembly.

2. Remove burrs from cut edges.

D. Welding: Welding of doors or frames is not acceptable.

E. Fit:

1. Maintain continuity of line and accurate relation of planes and angles.

2. Secure attachments and support at mechanical joints with hairline fit at contacting members.

**2.10 ALUMINUM FINISHES**

A. Powder Coat Primer

**PART 3 EXECUTION**

**3.1 EXAMINATION**

A. Examine areas to receive doors. Notify Architect of conditions that would adversely affect installation or subsequent use. Do not proceed with installation until unsatisfactory conditions are corrected.

**3.2 PREPARATION**

A. Ensure openings to receive frames are plumb, level, square, and in tolerance.

**3.3 INSTALLATION**

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

B. Install doors plumb, level, square, true to line, and without warp or rack.

C. Anchor frames securely in place.

D. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.

E. Set thresholds in bed of mastic and backseal.

F. Install exterior doors to be weathertight in closed position.

G. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.

H. Remove and replace damaged components that cannot be successfully repaired as determined by Architect.

| Specifier Notes: Delete the following article if manufacturer's field services are not required. |
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**3.4 FIELD QUALITY CONTROL**

A. Manufacturer's Field Services: Manufacturer's representative shall provide technical assistance and guidance for installation of doors.

**3.5 ADJUSTING**

A. Adjust doors, hinges, and locksets for smooth operation without binding.

**3.6 CLEANING**

A. Clean doors promptly after installation in accordance with manufacturer's instructions.

B. Do not use harsh cleaning materials or methods that would damage finish.

**3.7 PROTECTION**

A. Protect installed doors to ensure that, except for normal weathering, doors will be without damage or deterioration at time of substantial completion.

 **END OF SECTION**