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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.

SECTION 08120 (02 02 18)

NuPlank® ALUMINUM PLANK DOORS

Specifier Notes: This section covers NuPlank® aluminum plank doors with aluminum frames. Consult NuPlank for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Aluminum plank doors with aluminum frames.

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.

- 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.

- A. ASTM B 209 - Aluminum and Aluminum-Alloy Sheet and Plate.
- B. ASTM B 221 - Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tube.
- C. ASTM D 6670-01 - Standard Practice for Full-Scale Chamber Determination of Volatile Organic Emissions from Indoor Materials/Products.

1.4 PERFORMANCE REQUIREMENTS

- A. General: Provide door assemblies that have been designed and fabricated to comply with specified performance requirements, as demonstrated by testing manufacturer's corresponding standard systems.
- B. Indoor air quality testing per ASTM D 6670-01: GREENGUARD Environmental Institute Certified including GREENGUARD for Children and Schools Certification.

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, finish, options, and accessories.
- D. Samples:
 - 1. Door: Submit manufacturer's sample of door showing Extrusions, finish, and accessories.
 - 2. Color: Submit manufacturer's samples of standard colors of doors and frames.
- E. Test Reports: Submit certified 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. Door and frame components from same manufacturer.
 - 3. Evidence of a compliant documented quality management system.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying opening door mark and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
- C. Handling: Protect materials and finish from damage during handling and installation.

1.8 WARRANTY

Specifier Notes: Consult NuPlank for additional warranty information.

- A. Warrant doors, frames, and factory hardware against failure in materials and workmanship, including excessive deflection, faulty operation, defects in hardware installation, and deterioration of finish or construction in excess of normal weathering.
- B. Warranty Period: Ten years starting on date of shipment.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. NuPlank, LLC., 7776 Douglas Ave. Kalamazoo, MI 49009. Phone (269) 216-1086. Fax (269) 345-7799. Web Site www.nuplank.com. E-Mail info@nuplank.com.

2.2 ALUMINUM FLUSH DOORS

- A. Model: NuPlank® aluminum plank doors with aluminum frames.

Specifier Notes: Specify the door opening size.

- B. Door Opening Size: [_____ by _____] [As indicated on the Drawings].
- C. Construction:
 - 1. Door Thickness: 1-3/4 inches.
 - 2. Stiles: Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes, minimum of 5-1/16-inch width.
 - 3. Provide joinery with 3/8-inch diameter full-width tie rods secured with locking hex nuts. Minimum three per door.
 - 4. Secure top and bottom caps into extrusion screw splines with a minimum of seven screws on both top and bottom for a 3' door.
 - 5. Meeting Stiles: Pile brush weatherseals. Extrude meeting stile to include integral pocket to accept pile brush weatherseals.
 - 6. Lock stile wall thickness to be minimum .125" thick.
 - 7. Closer reinforcement wall thickness to be minimum 0.230" thick.
 - 8. Glue: Use of glue to bond reinforcements is not acceptable.
- D. Door face:
 - 1. Material: 0.105-inch thick aluminum.

2. Texture: Fluted.

E. Cutouts:

1. Manufacture doors with cutouts for required vision lites, louvers, and panels.
2. Factory install vision lites, louvers, and panels.

F. Hardware:

1. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule.
2. Factory install hardware.

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. Components:

1. Door components from same manufacturer.
2. Frame components from manufacturer Tubelite

C. Fasteners:

1. Material: Aluminum, 18-8 stainless steel, or other non-corrosive 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.

2.5 ALUMINUM DOOR FRAMING SYSTEMS

A. Open Back Tubular Framing:

1. Size and Type: As indicated on the Drawings.
2. Materials: Aluminum extrusions made from prime-equivalent billet that is produced from

- 100% reprocessed 6063-T6 alloy recovered from industrial processes, 1/8-inch minimum wall thickness.
3. Snap in Door Stops: 0.750-inch high, with weatherstripping. Doorstop shall incorporate pressure gasketing for weathering seal.
 4. Frame Members: Open-back framing with backer filler plates.
 5. Caulking: Caulk joints before assembling frame members.
 6. Joints:
 - a. Secure joints with fasteners.
 - b. Provide hairline butt joint appearance.
 7. Field Fabrication: Field fabrication of framing using stick material is not acceptable.
 8. Glazing Pocket: For side, transom, and borrowed lites and panels. Glazing Pockets shall incorporate pressure gasketing for weathering seal. Reinforce with solid bar stock fill for frame hardware attachments.
 9. Hardware:
 - a. Premachine and reinforce frame members for hardware in accordance with manufacturer's standards and hardware schedule.
 - b. Factory install hardware.
 10. Anchors:
 - a. Anchors appropriate for wall conditions to anchor framing to wall materials.
 - b. Doorjamb and header mounting holes shall be spaced no more than 24 inches apart.
 - c. Secure head and sill members of transom, side lites, and similar conditions.
 11. Side Lites:
 - a. Factory preassemble side lites to greatest extent possible.
 - b. Mark frame assemblies according to location

2.6 HARDWARE

- A. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule.
- B. Factory install hardware.
- C. Hardware Schedule: [As follows] [As specified in Section 08710 (08 71 00)] [As indicated on the Drawings].
 1. Hinges: [SL-11HD continuous hinges] [_____].
 2. Locking Hardware: _____ .
 3. Flush Bolts/Surface Bolts: _____ .
 4. Door Pulls: [BF157] [_____].
 5. Push Bars: [BF15747] [_____].
- D. Finish: [Clear] [Dark Bronze] [_____] [As specified in Section 08710 (08 71 00)] [As indicated on the Drawings].

Specifier Notes: Delete the following article if vision lites are not required.

2.8 VISION LITES

Specifier Notes: Specify 1/4-inch glass or 1-inch glass insulating units.

- A. Factory Glazing: [1/4-inch glass] [1-inch glass insulating units].
- B. Lites in Exterior Doors: Allow for thermal expansion.

Specifier Notes: Specify size of lites. Consult NuPlank for custom lite requirements.

- C. Rectangular Lites:
1. Size: [10 inches by 10 inches] [half lite] [full lite] [narrow lite] [double lite] [_____ by _____] [As indicated on the Drawings].
 2. Factory glazed with screw-applied aluminum stops anodized to match perimeter door rails.

Specifier Notes: Delete the following article if louvers are not required.

2.9 LOUVERS

- A. Type: Aluminum, inverted Y-type, fixed blade, 12 inches minimum from bottom of door.

Specifier Notes: Specify the size of the louvers.

- B. Size: [_____ by _____] [As indicated on the Drawings].
- C. Installation: Factory installed into standard vision lite kit. Exterior side of louver to be free of fasteners.

Specifier Notes: Delete the optional insect screen if not required.

- D. Insect screen.

2.10 ALUMINUM FINISHES

- A. Anodized Finish: Class I finish, 0.7 mils thick.

Specifier Notes: Specify one of the following anodized finishes and delete the others.

1. Clear 215 R1, AA-M10C12C22A41, Class I, 0.7 mils thick.
2. Champagne, AA-M10C12C22A44, Class I, 0.7 mils thick.
3. Medium Bronze, AA-M10C12C22A44, Class I, 0.7 mils thick.
4. Dark Bronze, AA-M10C12C22A44, Class I, 0.7 mils thick.
5. Black, AA-M10C12C22A44, Class I, 0.7 mils thick.
6. Copper, AA-M10C22A43, Class I, 0.7 mils thick.
7. Brushed Stainless Anodized, AA-M10C22A43, Class I, 0.7 mils thick.

Specifier Notes: Consult NuPlank for painted finishes for aluminum.

- B. Painted:

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