PLASTIC DOUBLE ACTING DOORS (TRAFFIC DOORS) AND STAINLESS STEEL DOOR FRAMES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section Includes the Following:

1. ABS Plastic Double Acting Door

1.2 RELATED SECTIONS

A. Related Sections Include the Following:

1. Division 4 - Unit Masonry

2. Division 6 – Rough Carpentry

3. Division 8 - Finish Hardware

4. Division 8 - Glazing

1.3 QUALITY ASSURANCE

A. Doors to be acceptable based on review of chemical constituents against appropriate USDA and FDA regulations, for incidental food contact, if applicable to this project.

B. Manufacturer Qualifications: A company specialized in the manufacture of doors and frames as specified herein with a minimum of 35 years documented experience and with a record of successful in-service performance for the applications as required for this project.

C. Installer Qualifications: An experienced installer who has completed door and frame installations similar in material, design, and extent to those indicated and whose work has resulted in construction with a record of successful in-service performance.

D. Source Limitations: Obtain ABS Plastic doors and stainless steel frames through one source fabricated from a single manufacturer.

E. Source Limitations: Hardware and accessories for all ABS Plastic doors as specified in Section 08710 should be provided and installed by the ABS Plastic door and frame manufacturer.

F. Source Limitations: Glass for windows in doors shall be furnished and installed by door and frame manufacturer in accordance with related section, Division 8, Glazing.

1.4 SUBMITALS

A. Submit shop drawings and product data under provisions of Section 01300.

B. Indicate frame configuration, anchor types and spacing, location of cutouts for hardware, reinforcement, and finish.

C. Indicate door elevations.

D. Submit manufacturer's product literature, fabrication descriptions and installation instructions under provision of Section 01300.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Packing, Shipping, Handling and Unloading: Package door opening assemblies in manufacturer's standard containers.

B. Store door assemblies in manufacturer's standard containers, on end, to prevent damage to face, corners, and edges.

1.6 WARRANTY

Manufacturer's Warranty: Weiland offers a limited lifetime warranty on ABS Plastic door panels against failure due to corrosion from the specified environment and delamination of the ABS Plastic exterior from the internal door collar. Refer to full warranty document for more details.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

Weiland, Inc., Norfolk, Nebraska. Telephone: (402) 454-2106. Fax: (402) 454-6508. Website: www.weilanddoors.com. No Substitutions.

2.2 DOOR COMPONENTS

A. The door panel shall consist of 3/16" thick ABS plastic skins on each side and is reinforced with a proprietary fiberglass pultrusion with heavy-duty stainless steel reinforced corner hinge brackets. ABS plastic skins less than 3/16" thick are not acceptable. The heavy-duty stainless steel reinforced corner hinge brackets and ABS Plastic door skins are permanently bonded to the proprietary fiberglass pultrusion. Overall panel thickness is 1-3/4". The proprietary fiberglass pultrusion will accept a durable perimeter interchangeable wiper gasket.

B. The door panel core material shall be composed of foamed-in-place, 2lb/cu ft polyurethane foam (laminated pre-cut foam sheets are not acceptable).

C. Corrosion Resistant Hinge Package contains the following components:

1. Heavy-duty cast 304 stainless steel V-Cam hinge assemblies. The assemblies consist of stainless steel V-Cam, stainless steel upper and lower hinge posts (1" solid stainless steel shaft), stainless steel roller assembly with sealed stainless steel cam follower, and a 12-ga stainless steel lower hinge guard. Aluminum or Zinc plated roller assembly and/or hinge post are not acceptable.

D. The vision panel shall be a 5x28", 12x18" and 22x28" size with stainless steel frame and vision panel glazing shall be ¼" thick abrasion resistant polycarbonate.

2.3 ONE-PART WELDED STAINLESS STEEL DOOR FRAMES

A. Door frames to be manufactured from 16-gauge 304-4 stainless steel. Frames to be welded at corners. 316 stainless steel available upon request.

B. Jamb Depth: Customized based on frame schedule for exact sizes.

C. Face Dimension: 2" standard. 4” headers available upon request.

D. Corner Miter: Head and Jamb members shall be standard 45-degree miter, providing a neatly mitered corner connection.

2.4 KNOCKDOWN STYLE FRAMES

A. Fabricated specifically for insulated metal panel wall or other wrap-around installation.

B. Door frames to be manufactured from 14-gauge 304-4 stainless steel. Frames to be fastened together at corners with an “L” bracket and fasteners. 316 stainless steel available upon request.

C. Jamb Depth: Customized based on frame schedule for exact sizes.

D. Face Dimension: 2" standard. Headers available in 2" only.

E. Corner Miter: Head and Jamb members shall be standard 90-degree miter, providing a neatly mitered corner connection.

2.5 HARDWARE

A. See Section 08710.

B. Due to the special nature of the material in this section, all related hardware as specified must be furnished and mounted by the door and frame manufacturer.

C. All hardware components must be stainless steel. Aluminum hardware components are not acceptable.

PART 3 - EXECUTION

3.1 INSTALLATION CONDITIONS

A. Verification of Conditions

1. Openings are correctly prepared to receive doors and frames.

2. Openings are correct size and depth in accordance with shop drawings or submittals.

B. Installer’s Examination

1. Have the installer examine the conditions under which construction activities of this section are to be performed and submit a written report if conditions are unacceptable.

2. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.

3.2 INSTALLATION

A. Install door-opening assemblies in accordance with shop drawings and manufacturer's installation instructions, using installation methods and materials specified in installation instructions.

B. Field alteration of doors or frames to accommodate field conditions is strictly prohibited.

C. Site tolerances: Maintain plumb and level tolerance specified in manufacturer's installation instructions.

3.3 ADJUSTING

A. Adjust doors in accordance with door manufacturer's maintenance instructions to swing open and shut without binding and to remain in place at any angle without being moved by gravitational influence.

B. Adjust door hardware to operate correctly in accordance with hardware manufacturer's maintenance instructions.

3.4 CLEANING

Clean surfaces of door opening assemblies and exposed door hardware in accordance with

respective manufacturer's maintenance instructions.

3.5 PROTECTION OF INSTALLED PRODUCTS

Protect door opening assemblies and door hardware from damage by subsequent construction activities until final inspection.

END OF SECTION