

STAINLESS STEEL DOORS AND STAINLESS STEEL DOOR FRAMES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section Includes The Following:
 - 1. Stainless Steel Doors
 - 2. Stainless Steel Door Frames

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 specialty doors with stainless steel frames as specified herein with a minimum of 20 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 stainless steel 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 stainless steel doors and stainless steel frames through one source fabricated from a single manufacturer.
- E. Source Limitations: Hardware and accessories for all stainless steel doors as specified in Section 08710 should be provided and installed by the stainless steel 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: Manufacturer's 10-year warranty against failure due to corrosion from specified environment.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

Weiland, Inc., Madison, Nebraska. Telephone: (402) 454-2106. Fax: (402) 454-6508. Website: www.weilanddoors.com.

2.2 DOORS

Standard door panel to consist of non-wood frame and 1 5/8" of foamed in place, 2 pcf polyurethane insulation between two sheets of 24 gauge, 304-2B stainless steel. The unit is then spot welded and caulked around the perimeter.

2.3 STANDARD DOOR FRAMES

- A. Door frames to be manufactured from 16 gauge 304-2B stainless steel. Frames to be welded at corners.
- B. Jamb Depth: 5" standard. Widths over/under 5" available upon request, refer to frame schedule for exact sizes.
- C. Face Dimension: 2" standard. Headers available in 2" only.
- D. Corner Miter: Head and Jamb members shall be standard 45 degree miter, providing a neatly mitered corner connection.
- E. Increase door height by 2" in lieu of 4" head

2.4 2-PART FRAMES

- A. Fabricated specifically for insulated metal panel wall or other wrap-around installation.
- B. Door frames to be manufactured from 16 gauge 304-2B stainless steel. Frames to be welded at corners.
- C. Jamb Depth: Up to 15" standard. Refer to 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 45 degree miter, providing a neatly mitered corner connection.

2.5 METAL CLAD FRAMES

- A. Fabricated specifically for insulated metal panel wall or other wrap-around installation.
- B. Door frames to be clad with 304-2B stainless steel.
- F. Jamb Depth: Up to 15" standard. Refer to frame schedule for exact sizes.
- G. Face Dimension: 5 1/2" standard.
- H. Wood frame core standard.
- I. Non-wood composite frame core optional

2.6 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 installed by the door and frame manufacture.

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 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 printed 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
