ABOUT THE PRODUCT

The **SS-Series** doors are VS-Series Flush Doors, fabricated from No. 304 or No. 316 **stainless steel** material. They are designed to meet and exceed the harsh environmental exposures such as chemicals, water, moisture and others. Typical uses are Indoor swimming pool areas, laboratories, hospitals, bottling plants, food processing plants and all tropical environments.

As stated by HMMA / NAAMM – USA (National Association of Architectural Metal Manufacturers-United States of America):

> "Stainless Steel doors are used for the severely (No. 316) or moderately (No. 304) corrosive applications where corrosive resistance is the primary concern such as in public swimming pools which are highly chlorinated".

FEATURES

CORE:

- Spaces between stiffeners are insulated with fiber glass or mineral Rockwool to the full height of the door.
- Standard infill thickness 50 mm of nominal density 24 Kg/m^3.
- Thermal Conductance (50 mm): U = 0.123 Btu/hr.ft^2.ºF. (ASTM C177).
- Thermal Resistance: R-Factor = 8.11 hr.ft^2.ºF/Btu (ASTM C518-63T).
- Combustibility: None / IMO Resolution-ASTM E 136-82, BS 476 Part 4, ISO R1182.

OPTIONS:

- Polystyrene or Polyurethane core infill for non-fire doors (see details of PU & PS Series).
- Beveled or flush welded glass beads.
- Stainless Steel material, Grade 304 or 316 conforming to ASTM A666, available in different finishes, being mill, brush hairline # 4, or mirror finish # 8, in order to conform to any architectural requirement.
- Fully glazed leaf.
- All internal reinforcement parts are also available in stainless steel material (refer to "Leaf & Frame Construction").
- Vision panels, louver kits, transoms and sidelights.

Faysaliya and Kingdom Tower, K.S.A.

SPECIFICATIONS OF COMPLIANCE

- Construction of the SS-Series doors meets the requirements of ANSI A250.8-2003 (SDI 100) and ANSI 151.1.
- Fire Rating: Up to 11/2 hours for single leaf and double leaf swing doors, listed and labeled by Intertek-Warnock Hersey according to UL 10C, UL 10B, UBC 7-2-1994/1997, NFPA 252-1995, ASTM E152-81a, CAN4-1980, and BS 476.
- Level "A" grade in accordance with ANSI A 250.4 test procedures.

RECOMMENDATIONS

- Grade # 304 stainless steel is recommended for areas where corrosive materials are present in the atmosphere.
- Grade # 316 stainless steel is recommended for swimming pool areas where high concentrations of chlorine are used.

Dubai International Airport

LEAF & FRAME CONSTRUCTION

- 45 mm (1 3/4") thick full flush construction fabricated from 1.2 mm (GA 18) thick stainless steel sheets (refer to options). Available also in nominal 1.0 mm (GA 20), and 1.5 mm (GA 16).
- Complete steel skeleton structure inside leaf (cold rolled steel sheets to ASTM A366 or galvanized steel sheets to ASTM A653-A526), to which steel vertical stiffeners and all other hardware reinforcements are welded.
- Face sheets are stiffened by vertical 0.8 mm (GA 22) mild steel stiffeners spaced 190 mm on center and welded to the internal steel skeleton.
- 1.5 mm (GA 16) thick top and bottom channels.
- Mechanically interlocked, hemmed vertical edge seams for added strength and rigidity.
- 5.0 mm steel hinge reinforcement and 2.0 mm (GA 14) steel lock and strike reinforcements. Hardware reinforcing in accordance to ANSI, SDI, NFPA standards requirements.
- Frame fabricated from 1.5 mm (GA 16) thick stainless steel sheet, fully clad over a 1.2 mm (GA 18) steel frame to which all hardware reinforcements are welded.