

## ABOUT STAINLESS STEEL

- Stainless steel is a metallurgical material that makes use of different alloying elements. Two types of stainless steel are commonly used in the door and frame industry: Type 304 alloy and Type 316 alloy.
- Type 304 alloy contains 18% chromium and 8% nickel. Type 316 alloy contains 16% chromium, 10% nickel, and 3% molybdenum. The addition of molybdenum expands the alloy's anti-corrosive properties to include highly chlorinated environments such as swimming pools, paper mills, and chemical plants as well as high salinity environments such as saltwater pools, regions adjacent to the oceans or seas, and openings where salt is used for winter snow and ice protection.
- AMBICO stainless steel doors are available in traditional and colored stainless steel. The finishing options range from 2B "mill" finish, grained options such as #4 "satin" and #6 "non-directional" to polished finishes like #8 and #10 (Refer to Figure 1).
- Assemblies are also available in decorative style finishes, including polished, patterned, textured, etched, and colored finishes.

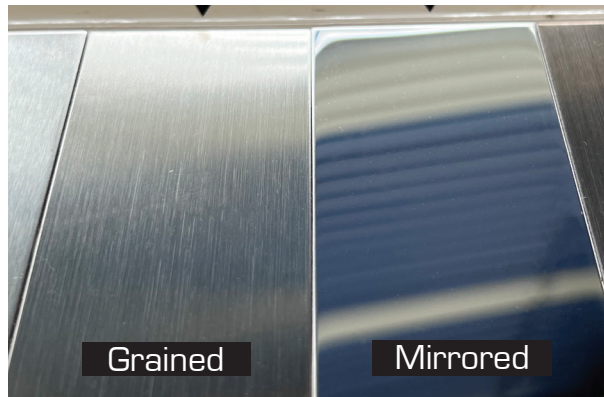


Figure 1: Grained vs Mirrored finish samples

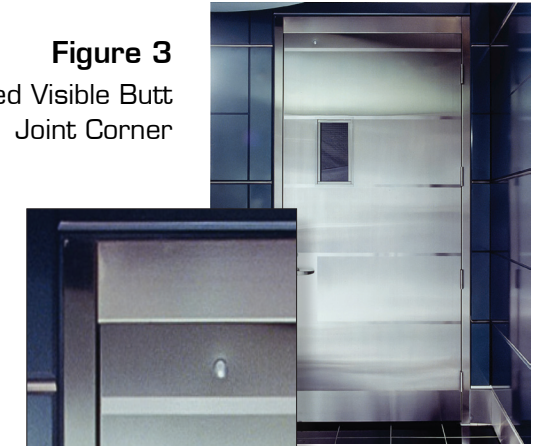
# AMBICO STAINLESS STEEL DOORS, FRAMES, AND WINDOWS



Figure 2

Fully Welded & Buffed  
Mitered Joint Corner

Figure 3  
Welded Visible Butt  
Joint Corner



## STAINLESS STEEL OPENINGS

### STAINLESS STEEL FRAMES

- The typical jamb and head corner detail varies depending on the finish of the material. Frames in grained finish material can be fully welded with mitered joints (See Figure 2). To ensure a seamless appearance, the frames are refinished with vertical grain in the jambs and horizontal grain in the heads, allowing for perfect alignment at the mitered joint corner.



# AMBICO STAINLESS STEEL DOORS, FRAMES AND WINDOWS

- Highly decorative stainless steels, such as mirrored, patterned, textured, and colored materials, are clad over a sub-frame, integrating a clean, visible corner joint (See Figure 3).
- Typical intersecting jambs and mullions (Refer to Figure 4) are manufactured identically for grained, mirrored, patterned, textured, and colored finishes. Mullions are inset slightly from the frame face to align with the jamb radius, thereby minimizing the space between the jambs and mullions.
- To meet the high demand for stainless steel doors in healthcare environments, AMBICO offers healthcare-specific frames designed for medical applications. The frames can be manufactured in both sanitary bases and hospital stop options and are readily available for ICU and operating rooms, where stringent cleanliness standards are crucial.

## STAINLESS STEEL DOOR

- Mill and grained finishes are available with traditional door cores such as honeycomb, vertically stiffened, and polystyrene. When used with traditional open (Refer to Figure 5) or closed (Refer to Figure 6) door end channels, these cores can be furnished with interlocking lockseam (Refer to Figure 7) or fully welded seam (Refer to Figure 5) door edges.
- Fire-labeled products are available in stainless steel and can be used with conventional architectural hardware. All fire-labeled products have been tested in independent laboratories, following up-to-date standards.
- AMBICO stainless steel doors are available with a variety of vision lite kits for both fire-rated and non-fire-rated openings, including custom vision lite kits for narrow, half, full, and multi-lite configurations.
- Polished, patterned, textured, etched, and colored finishes are available in clad constructions in flush, narrow, and half-lite configurations, or in stile and rail constructions when full or multi-lite doors are required.
- Colored stainless steel alloys come in gold, deep blue, dark bronze, and bright brass. These colors are chemically bonded to the stainless steel and maintain their color for the life of the product. They are available only in mirror or satin finishes.

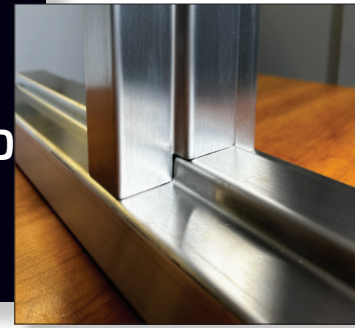


Figure 4 - Typical frame jamb and mullion detail

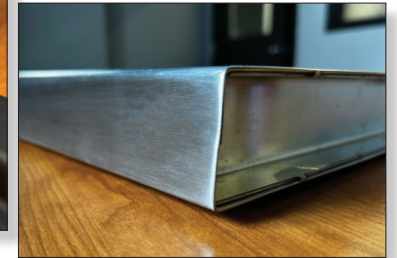


Figure 5 - Fully welded door with an open end channel

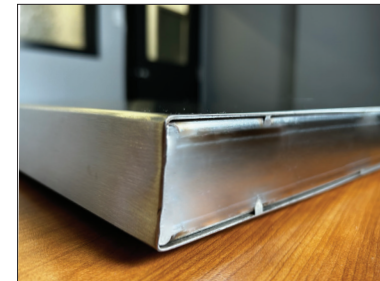


Figure 6 - Closed top/bottom end channel



Figure 7 - Mirrored finished door with lock seam door edge



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