This section includes standard commercial Stainless Steel Window Frames and relies on industry standards. This section includes descriptive and performance type specifications. Edit to avoid conflicting requirements.

Part 1 General

1.1 SECTION INCLUDES

This article includes a summary of the content of this section which will not be included in other sections. This article is NOT intended to be used as a trade or other form of jurisdictional content.

.1 [Non-rated] [fire rated] stainless steel window frames.

.2 [Non-rated] [fire rated] stainless steel panels.

1.2 RELATED SECTIONS

This article references other specification sections that inter-rely on this section. This listing should include those sections that describe subjects or products that affect this section directly.

.1 Section [_____-_____]: Masonry mortar fill of metal frames.

.2 Section 07 92 00-Joint Sealing: Caulking between windows and adjacent construction.

.3 Section 08 81 00 - Glass Glazing: Glazing for installation in stainless steel window frames.

1.3 REFERENCES

Edit this article after editing the rest of this section. List reference standards that are included within the text of this section, when edited for a project specification. Delete references that do not apply.

.1 ASTM A240/A240M-17 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.

.2 Canadian Steel Door Manufacturers Association (CSDMA), Selection and Usage Guide for Steel Doors and Frames, 2009.

.3 HMMA 802-07 - Manufacturing of Hollow Metal Doors and Frames.

.4 HMMA 840-16 - Installation and Storage of Hollow Metal Doors and Frames.

.5 HMMA 841-17 Guide Specifications For Receipt, Storage and Installation of Hollow Metal Doors and Frames.

.6 NFPA 80-16 - Standard for Fire Doors and Other Opening Protectives.

.7 UL 10c-16 Standard for Positive Pressure Fire Tests of Door Assemblies

.8 USGBC – LEED v4.

1.4 REGULATORY REQUIREMENTS

Include the following article only if fire rated assemblies are specified. AMBICO can supply Stainless Steel Window Frames with a 45 minute fire rating label.

.1 Installed Door and Frame Assembly: Conform to [NFPA 80] [_____] for fire rated class [as scheduled.] [as indicated.].

1.5 SUBMITTALS

.1 Product Data: Provide product data on standard stainless steel window frame construction.

.2 Shop Drawings: Indicate stainless steel window frame elevations, internal reinforcement, anchor types and spacing, closure methods, finishes and cut outs [for glazing].

.3 Samples: Submit manufacturer's stainless steel finish samples showing range of material variation as well as polishing details.

.4

Include the following ONLY if specifying for a LEED project. Specify only the technical requirements necessary to achieve the credits desired for this project. The Type 3 EPD are normally required for LEED v4 certification. AMBICO stainless steel products offer significant advantages to firms interested in supporting LEED certification.

1.6 Sustainable Design:

i) Section 01 35 18: LEED documentation procedures.

ii) Provide required LEED documentation for Product.

iii) Submit Type 3 Environmental Product Declaration (EPD) for Products of this Section.

iv) Manufacturer's Certificate: Certify that Products meet or exceed specified requirements.

1.7 QUALITY ASSURANCE

.1 Perform Work to requirements of [CSDMA (Canadian Steel Door Manufacturers Association)] [HMA (Hollow Metal Manufacturers Association)] standards.

.2 Manufacturer: Minimum 5 years documented experience manufacturing stainless steel window frames.

1.8 DELIVERY, STORAGE AND PROTECTION

.1 Section [01 61 00]: Transport, handle, store, and protect products.

.2 Comply with [CSDMA] [HMMA 840] standards for storage and installation

.3 Remove window frames from wrappings or coverings upon receipt on site and inspect for damage.

.4 Store in vertical position, spaced with blocking to permit air circulation between components. Store materials out of water and covered to protect from damage.

1.9 WARRANTY

.1 Manufacturer's Limited Warranty: Five (5) years from date of supply, covering material and workmanship.

Part 2 Products

2.1 MANUFACTURERS

List the manufacturers acceptable for this project. Edit the subsequent descriptive specifications of Part 2, to identify project requirements and to eliminate any conflict with specified manufacturer's products.

.1 AMBICO Limited
1120 Cummings Avenue
Ottawa, Ontario, Canada K1J 7R8

Toll Free Phone	888-423-2224
Phone	613-746-4663
Toll Free Fax	800-465-8561
Fax	613-746-4721

.2 Other Acceptable Manufacturers:

.1 [_____].
.2 [_____].

.3 Substitutions: [Refer to Section 01 60 00.] [Not permitted.]

2.2 MATERIALS

Note: Type #304 stainless steel alloy is standard. Type #316 alloy may be specified for extremely corrosive environments, such as in the presence of chlorine

.1 Stainless Steel: ASTM A240, type [304] [316].

2.3 ACCESSORIES

The following paragraphs identify the components needed to complement the materials cited above..

.1 Frame Thermal Breaks: Rigid polyvinylchloride extrusion.

.2 Glazing Stops: Formed stainless steel channel, minimum 16 mm (0.625 inch) high, [butted] [mitred] corners; prepared for countersink style [tamperproof] screws.

.3 Glass: [In accordance with Section [08 81 00]] [_____]. Glazing to be supplied by others.

2.4 FABRICATION

Stainless Steel Frames:

.1 Stainless Steel Window Frames: [1.6] [2.0] [2.8] mm ([16] [14] [12] gauge) thick stainless steel, welded type construction, mitred corners.

.2 Factory assemble and weld stainless steel window frames.

.3 Fabricate with stainless steel hardware reinforcement plates welded in place.

.4 Reinforce window frames wider than 1200 mm (48 inches) with roll formed stainless steel channels fitted tightly into frame head, flush with top.

.5 Mullions to be fit to perimeter jambs with visible seams in accordance with architectural elevations.

2.5 FINISHES

Edit the following to identify finish. Choose from Standard or Custom finishes.

.1 Standard Stainless Steel Finish: [#2B Mill Finish] [#4 Satin] [#6 Hairline] [#8 Mirror] [Colored].

OR

.2 Custom Stainless Steel Finish: [Embossed] [Etched] [Patterned] [Non-directional] [Textured] [_____]

Part 3 Execution

3.1 INSTALLATION

.1 Install components to manufacturer's written instructions.

.2 Install stainless steel window frames to [CSDMA] [HMMA 840] standards [and in accordance with NFPA 80, and local authority having jurisdiction].

.3 Coordinate with [masonry] [gypsum board] [concrete] [_____] wall construction for anchor placement.

.4 Set window frames plumb, square, level and at correct elevation.

.5 Allow for deflection to ensure that structural loads are not transmitted to window frame.

.6 [Install glazing].

3.2 ERECTION TOLERANCES

.1 Section 01 73 00: Tolerances.

.2 Installation tolerances of installed frame for squareness, alignment, twist and plumbness are to be no more then ± 1/16in (1.5mm) in compliance with HMMA 841.

3.3 FIELD QUALITY CONTROL

.1 Provide qualified manufacturer's representative to instruct installers on the proper installation and adjustment of stainless steel window frames. Correct any deficiencies.

.2 Provide manufacturer's representative to inspect window frame installation. Correct any deficient units.

END OF SECTION