

**SECTION 07 60 00
FLASHING AND SHEET METAL**

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Formed stainless steel sheet metal work for interior base shrouds.
- B. Cover plates at firestopped blank openings in existing concrete floor slab.

1.2 RELATED WORK

- A. Joint Sealants: Section 07 92 00, JOINT SEALANTS.

1.3 APPLICABLE PUBLICATIONS

- A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in the text by the basic designation only. Editions of applicable publications current on date of issue of bidding documents apply unless otherwise indicated.
- B. ASTM International (ASTM):
A167-99(R2009) Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip
- C. American Welding Society (AWS):
D1.3/D1.3M:2010..... Structural Welding Code-Sheet Steel
- D. Sheet Metal and Air Conditioning Contractors National Association (SMACNA): Architectural Sheet Metal Manual.
- E. National Association of Architectural Metal Manufacturers (NAAMM):
AMP 500-06..... Metal Finishes Manual
- F. International Code Commission (ICC): International Building Code, Current Edition
- G. Federal Specification (Fed Spec):
A-A-1923A, Type 4.....Shield Expansion (Lag, Machine and Externally Threaded Wedge (July 18, 1995)

1.4 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Shop Drawings: Complete for base shrouds and attachments
- C. Certificates:
 - 1. Steel for all connections.
 - 2. Welding materials.
 - 3. Indicating compliance with specified finishing requirements, from applicator and contractor.
- D. Test Reports:
 - 1. Welders' qualifying tests.

PART 2 - PRODUCTS

2.1 SHEET METAL MATERIALS

- A. All sheet metal materials shall be stainless steel: ASTM A167, Type 304.

2.2 SHEET METAL THICKNESSES

- A. Except as otherwise shown or specified use thickness or weight of sheet metal as follows:
- B. Concealed Locations (clips):
 - 1. Stainless steel: 1.27 mm (0.050 inch/18 gauge) thick.
- C. Exposed Locations (shroud):
 - 1. Stainless steel: 2.78 mm (0.109 inch/12 gauge) thick.

2.3 FABRICATION, GENERAL

- A. Jointing:
 - 1. Stainless steel sheet shall be brake formed or butt welded with joints ground smooth.
- 2. Welding:
 - a. Continuous butt weld adjoining sheets; AWS D1.3.
- C. Metal Options:
 - 1. Where options are permitted for different metals use only one metal throughout.
 - 2. Stainless steel shall be used in concealed locations.

2.4 ATTACHMENT CLIPS

- A. Fabricate clips to secure sheet metal shrouds where specified.
 - 1. Screws to backing plate in studwalls. See Section 05 50 00, METAL FABRICATIONS.
 - 2. Wedge anchors to existing concrete floor slab: Fed Spec A-A-1923A.
- B. Fabricate clips to shapes as indicated in shop drawings unless specified otherwise.
- C. Form clips of same metal as the sheet metal being installed and of weights or thickness as specified unless otherwise noted.

2.5 BASE SHROUDS

- A. Fabricate base shrouds to fit between sterilizers as indicated in shop drawings. Shrouds shall be self-supporting and completely separate from sterilizer support framing.
- B. Provide backbends at edges of shroud as indicated in shop drawings. Hem bottom edges.
- C. Tops of shrouds to slope at 1 to 1 as indicated in shop drawings.
- D. Fabricate for butted welded seam joints. Remove burrs and break sharp edges. Grind welded edges smooth to minimum 3 mm (1/8 inch) round.
- E. Provide full height tab, full width of corner guard above, to cover end of integral cove base and hold tight to wall where occurs. Form tab to profile of integral cove.

2.6 COVER PLATES

- A. Fabricate cover plates to completely conceal opening plugs as indicated in Drawings.
- B. Bevel exposed edges and provide countersunk headed fasteners to finish flush with top of cover plate. Provide suitable anchors to concrete slab.

2.7 ACCESSORIES

- A. All fasteners shall be alloy 410 stainless steel.
 - 1. Screws: Not less than 3.17 mm (1/8 inch) diameter. Countersunk flat head where concealed; countersunk oval head where visible.
 - 2. Wedge anchors: Not less than 6.35 mm (¼ inch) diameter; Hilti Wedge-All or equivalent. Fed Spec A-A-1923A.
- B. Sealant: As specified in Section 07 92 00, JOINT SEALANTS at contacting surfaces.

2.8 FINISH

- A. In accordance with NAAMM Metal Finishes Manual AMP 500, unless otherwise specified.
- B. Finish exposed metal surfaces as follows, unless specified otherwise:
 - 1. Stainless Steel: Finish No. 2B or 2D.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General:
 - 1. Install sheet metal items as shown in Sheet Metal and Air Conditioning Contractors National Association, Inc., publication, ARCHITECTURAL SHEET METAL MANUAL, except as otherwise shown or specified.
 - 2. Apply sheet metal to surfaces which are smooth, sound, clean, dry and free from defects that might affect the application.
 - 3. Remove projections which would puncture the materials and fill holes and depressions with material compatible with the substrate.
 - 4. Install screws where indicated, specified, or required in accordance with the SMACNA Sheet Metal Manual.
- B. Welding: Welding in accordance with AWS D1.1. Welds shall be made only by welders and welding operators who have been previously qualified by tests as prescribed in AWS D1.1 to perform type of work required.
- C. Stainless Steel Base Shrouds and Cover Plates:
 - 1. Wedge anchor clip to concrete floor slab and screw clips to backing plates in studwalls; position shrouds over clips and screw attach. Position cover plates over plugged openings and screw attach.
 - 2. Provide continuous sealant bead at perimeter of shroud as it abuts floor and wall. Tool sealant for smooth fillet all around. Bed cover plate in sealant.
 - 3. Bed screws where visible in bead of sealant; tighten so that sealant oozes from around screw and wipe clean.

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