

**PART 1 - GENERAL**

- 1.1 REFERENCES**
- .1 ASTM International
    - .1 ASTM A480/A480M-16, Standard for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip.

- 1.2 ACTION AND INFORMATIONAL SUBMITTALS**
- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.

**PART 2 - PRODUCTS**

- 2.1 MATERIALS**
- .1 Stainless steel: to ASTM A480/A480M, type 316.
  - .2 Finish to match fume hood.

- 2.2 ACID STORAGE CABINET**
- .1 Construct cabinet bodies of sheet metal, flanged and returned at exposed gables to receive flush mounted doors.
  - .2 Flange and set back top rails and bottom panels.
  - .3 At base cabinets include 38 mm long levelling screw for adjusting to floor variations, in gussets and accessible through plugged openings in bottom.
  - .4 Provide molded polyethylene interior liner. Acid storage cabinets without a single piece liner are not acceptable.
  - .5 The lining on the back of doors shall be fitted so that it overlays the flange on the front of the molded cabinet liner to protect all metal areas of the cabinet from corrosive vapors.
  - .6 Acid storage cabinets shall contain one full-width phenolic shelf. It shall be possible to locate shelf in four positions on 75 mm increments. Shelf supports shall be integrally molded into cabinet liner.
  - .7 Provide the door with a decal signifying "ACID" storage.
  - .8 Molded liner shall incorporate a 25 mm high lip along bottom edge to contain spills.
  - .9 Provide one threaded connection fusion welded to the rear of the cabinet. Thread shall be 50 mm NPT for connection to fume hood. Provide piping from cabinet to hood.
  - .10 Provide an entirely plastic door catch.

**2.3 SAFETY STORAGE CABINET**

- .1 Construct storage cabinets of double wall, welded sheet steel construction with double panel door; overall thickness, 50 mm. Provide cabinets with four (4) adjustable levelling devices to compensate for approximately 25 mm base building floor differential. Raise door sill 50 mm above bottom of the cabinet to form a liquid-tight well. Overlap cabinet frame with hinged doors having continuous piano type hinges with three-point locking mechanism ship lapped at opening stile. Shiplap shall be provided with braided fibreglass gasket.
- .2 Walls, back, side and top of cabinet shall be insulated with 50 mm thick mineral fibre insulation.
- .3 Provide adjustable galvanized sheet steel shelves with four (4) edges turned down 25 mm and additionally returned under 16 mm on all edges. Provide 13 mm incremental shelf adjustment.
- .4 Provide 50 mm vent, complete with fire baffle cover with 50 mm fine metal filter.
- .5 Provide overlaid red warning letters 50 mm high on doors as follows: "FLAMMABLE -- KEEP FIRE AWAY".
- .6 Construction shall meet requirements of OSHA Standard 1910-106(d)(3), considered as organized storage centres for flammable and combustible liquids. Cabinets shall comply with National Fire Protection Association's flammable and combustible liquids Code #30 and #45, 1996. Provide grounding screw lug in accordance with Codes.
- .7 Construct safety storage cabinets sized for under-counter and under fume hood configurations as required by Drawings.
- .8 Cabinet shall be listed and labelled to the UL1275 standard.

**PART 3 - EXECUTION****3.1 INSTALLATION**

- .1 Level base cabinets by adjusting levelling screws.
- .2 Fit closure strips and scribe to irregularities of adjacent surfaces, maximum gap opening 0.5 mm.
- .3 After installation, adjust operating hardware.

**3.2 PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by steel laboratory casework installation.

END OF SECTION