Modern Welding Company, Inc.  

Manufacturing Subsidiaries Nationwide

LONG FORM: Section 13205  

Guide Specification

PART I General

1.0 Related Work Specifications:

1.1. Cast-in-Place Concrete: Section 03300
1.2. Anchor Bolts: Section 05501
1.3. Liquid Level Gauges: Section 15174
1.4. Piping: Section 15064
1.5. Painting: Section 09900

2.0 Quality Assurance

2.1 Acceptable Manufacturer:
   A. Modern Welding Company of Owensboro, Inc.
   B. Modern Welding Company of Ohio, Inc.
   C. Modern Welding Company of Iowa, Inc.
   D. Modern Welding Company of Texas, Inc. (Houston)
   E. Modern Welding Company of Texas, Inc. (Rhome)
   F. Modern Welding Company of California, Inc.
   G. Modern Welding Company of Georgia, Inc.
   H. Modern Welding Company of Florida, Inc.

2.2 Governing Standards:
   A. U.L. 142, Underwriters Laboratories, Inc., “Steel Aboveground Tanks for Flammable and Combustible Liquids”.
   B. U.L. 2085, Underwriters Laboratories, Inc., “Protected, Aboveground, Tanks for Flammable and Combustible Liquids”.
   F. Uniform Fire Code, International Fire Code Institute

3.0 Submittals

3.1 Shop Drawings:
A. Contractor shall submit ____ copies of shop drawings for each tank. Location of fittings and accessories with specific dimensions shall be shown on all drawings.

3.2 Drawing Approval:
A. Contractor shall receive drawing approval prior to product fabrication.

3.3 Catalog Data:
A. Contractor shall submit ____ current copies of manufacturer’s literature.

3.4 Certification:
A. Each tank shall bear the U.L. listing mark for, “Protected, Secondary Containment, Aboveground, Tank for Flammable Liquids”.

3.5 Installation Instructions:
A. Contractor shall submit ____ copies of manufacturer’s current installation instructions.

PART II Products

4.0 Protected, Aboveground, Tanks for Flammable and Combustible Liquids

4.1 Materials:
A. Only new material shall be used in the manufacturing process, and the manufacturer shall ensure that the material used meets all appropriate specifications and quality assurance requirements.
B. Minimal material thickness of the tank(s) shall be per UL-142 requirements.
C. Minimum annular space insulation thickness material shall be 3” with only UL-2085 listed insulation material shall be used.

4.2 Dimensions:
A. Dimensional Requirements (Cylindrical Tanks):
   1. Nominal capacity of the tank(s) shall be _____ gallons.
   2. Nominal inner tank diameter of the tank(s) shall be _____ inches.
   3. Overall length of inner tank(s) shall be _____ feet, _____ inches.
B. Dimensional Requirements (Rectangular Tanks):
   1. Nominal capacity of the tank(s) shall be _____ gallons.
   2. Nominal inner tank width of the tank(s) shall be _____ inches.
   3. Nominal inner tank height of the tank(s) shall be _____ inches.
   4. Overall length of inner tank(s) shall be _____ feet, _____ inches.
4.3 Loading Conditions:
A. Tanks shall meet the following design criteria.
B. Internal Load:
   1. Cylindrical Tanks: Shall withstand an air pressure test of 3 to 5 psi.
   2. Rectangular Tanks: Shall withstand, but not exceed, an air pressure test of 3 psi.
C. Tank(s) shall be designed to support accessory equipment such as ladders, pumps, floating suction, etc. when installed according to manufacturer's instructions and limitations.
D. Tank(s) shall be provided with suitably designed and located lifting lugs which have a 2:1 safety factor.

4.4 Product Storage Requirements:
A. Tank(s) shall be capable of storing liquids with a maximum specific gravity up to _____.
B. Tank(s) shall be designed for operation at atmospheric pressure only. Both primary and secondary tanks shall have openings of sufficient size to meet normal and emergency venting requirements as stated in U.L. 142, UFC, and NFPA.
C. Tank(s) shall be capable of storing gasoline, gasohol, jet fuel, avgas, diesel fuel, methanol, or fuel oil at ambient temperatures.

5.0 Accessories

5.1 Certification Plate:
A. Underwriters Laboratories label "Secondary Containment, Aboveground, Tank for Flammable Liquids" shall be affixed to each tank.

5.2 Fittings (Threaded/NPT):
A. All threaded fittings shall be of a material of construction consistent with the requirements of the Underwriters Laboratories. All fittings shall be protected using threaded plugs or suitable closure caps.
B. Fitting Schedule:

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5.3 Fittings (Flanged Nozzles):
   A. All flanged nozzles shall be of a material of construction consistent with the requirements of the Underwriters Laboratories. All nozzles shall be protected using suitable closure caps.
   B. Nozzle Schedule:

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5.4 Manways:
   A. Manways shall conform to Underwriters Laboratories 142 standard with regard to construction, bolting and gaskets.

5.5 Steel Tank Supports:
   A. Design of the steel supports shall be per approved UL listing and be able to support the weight of the tank filled to capacity.

5.6 Fitting, Manway, and Support locations shall be referenced on manufacture drawings.

PART III Execution

6.0 Installation

6.1 Testing:
   A. Cylindrical Tanks:
      1. The primary and secondary tanks shall successfully complete an air pressure test prior to installation. While maintaining pressure of 3-5 psig on the primary tank, the annular space bounded by the primary and secondary containment tank shall be pressurized to 1 1/2 to 3 psig. The secondary tank shall then be checked for tightness.
   B. Rectangular Tanks:
      1. The primary and secondary tanks shall successfully complete an air pressure test prior to installation. While maintaining pressure of 1.5 psig on the primary tank, the annular space bounded by the primary and secondary containment tank shall be pressurized to 1 psig. The secondary tank shall then be checked for tightness.

6.2 Tank shall be installed in strict accordance with the most recent installation instructions provided by the tank manufacturer, UFC, NFPA, local ordinance, recognized engineering procedure, and other applicable codes.
FORM: Fireguard™
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Owensboro, KY 42303

SUBSIDIARIES:
Modern Welding Company of Owensboro, Inc.
Owensboro, KY (270) 683-5323
Modern Welding Company of Ohio, Inc.
Newark, OH (740) 344-9425
Modern Welding Company of Florida, Inc.
Orlando, FL (407) 843-1270
Modern Welding Company of Texas, Inc.
Houston, TX (713) 675-4211
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