



Sample Engineering Specifications

OceanTUFF™ CPVC Marine Drainage Systems

OceanTUFF™ CPVC Marine Drainage Systems Sample Specification for Marine

The OceanTUFF™ CPVC Marine Drainage System (a.k.a. LabWaste®) for use in sanitary and corrosive drainage applications shall be manufactured from CPVC Type IV, minimum ASTM Cell Classification 23447 per D1784. System pipe and fittings shall be manufactured in accordance with ASTM F 2618 and certified by NSF International for use in corrosive waste drainage systems. OceanTUFF™ Marine Drainage System shall be approved by the United States Coast Guard, meet the low flame spread requirements and smoke and toxicity requirements of the 2010 FTP Code Annex 1, Parts 2 and 5, and may be installed in accommodation, service and control spaces without meeting the additional requirements of 46 CFR 56.60-25(a) (2) as manufactured by Spears® Manufacturing Company. OceanTUFF™ Marine Drainage System shall be approved by the American Bureau of Shipping (ABS) and meet IMO FTP Code Annex 1, Part 5 for Surface Flammability (IMO Resolution A.653 (16) for low Flame Spread).

All pipe markings shall be accompanied by a yellow stripe for identification as CPVC marine drainage system. All fittings shall be CPVC drainage patterns meeting the applicable requirements of ASTM D3311 or the manufacturer's specifications. Joining method for pipe and fittings shall be solvent cement welding. Solvent cement shall be a "one-step" primerless type CPVC cement specially formulated for resistance to corrosive chemicals and manufactured in accordance with ASTM F 2618 and F 493. All pipe, fittings, and cement shall be supplied together as a complete system with a Limited Lifetime Warranty, as Spears® OceanTUFF™ CPVC Marine Drainage System manufactured by Spears® Manufacturing Company.