



U. S. Department of Homeland Security
United States Coast Guard
Certificate of Approval

Coast Guard Approval Number: 164.141/39/0

Expires: 08 August 2018

PLASTIC PIPING SYSTEMS

Unisert Multiwall System, Inc.
13295 Rocky Road
Conroe TX 77306

Unisert Series I - IT3 Fire Water Pipe fiber reinforced plastic (FRP) piping system. Fire Endurance Standard: Level 3 (L3) and Level 3 Wet/Dry (L3 W/D).

Unisert Series I - IT3 Fire Water Pipe is a double wall pipe consisting of an interior fiberglass pipe sheathed by an outer steel pipe; the nominal 1" annular space between these pipes is grouted with Unisert's insulating cement. The Series I piping system with outer diameters ranging from 4.5" to 12" have been tested and approved in accordance with IMO Resolution A.753(18). Approved for use in locations and applications permitted in IMO Resolution A.753(18) and Coast Guard PFM 1-98 for meeting fire endurance L3 and L3 W/D, respectively. Due to its outer steel sheath, Unisert Series I - IT3 Fire Water Pipe is electrically conductive and is not required to meet smoke, toxicity or low flame spread requirements.

Identifying Data: Construction details as per manufacturer's specifications as submitted to Southwest Research Institute (SwRI). SwRI Projects Nos. 01.17787.01.809a and 01.17787.01.809c, dated August 8, 2013. SwRI Follow-up Procedure Document 01.25000.02.207 dated July 2014 Rev. 0.

Product shall be installed and operated in accordance with manufacturer's guidelines. Maximum operating pressure: 200 psig (13.8 bar).

Follow-up Program: SwRI.

Approval valid for piping manufactured at the following location:
13295 Rocky Road
Conroe, TX 77306

*** END ***

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.



GIVEN UNDER MY HAND THIS 8th DAY OF
AUGUST 2013, AT WASHINGTON D.C.

K. J. HEINZ
Chief, Lifesaving and Fire Safety Division
BY DIRECTION OF THE COMMANDANT

TERMS: The approval of the item described on the face of the Certificate has been based upon the submittal of satisfactory evidence that the item complies with the applicable provisions of the navigation and shipping laws and the applicable regulations in Title 33 and/or Title 46 of the Code of Federal Regulations. The approval is subject to any conditions noted on this Certificate and in the applicable laws and regulations governing the use of the item on vessels subject to Coast Guard inspection or on other vessels and boats.

Consideration will be given to an extension of this approval provided application is made 3 months prior to the expiration date of this Certificate.

The approval holder is responsible for making sure that the required inspections or tests of materials or devices covered by this approval are carried out during production as prescribed in the applicable regulations.

The approval of the item covered by this certificate is valid only so long as the item is manufactured in conformance with the details of the approved drawings, specifications, or other data referred to. No modification in the approved design, construction, or materials is to be adopted until the modification has been presented for consideration by the Commandant and confirmation received that the proposed alteration is acceptable.

NOTICE: Where a manufacturer of safety-at-sea equipment is offering for sale to the maritime industry, directly or indirectly, equipment represented to be approved, which fails to conform with either the design details or material specifications, or both, as approved by the Coast Guard, immediate action may be taken to invoke the various penalties and sanctions provided by law including prosecution under 46 U.S.C. 3318, which provides:

"A person that knowingly manufactures, sells, offers for sale, or possesses with intent to sell, any equipment subject to this part (*Part B. of Subtitle II of Title 46 U.S.C.*) and the equipment is so defective as to be insufficient to accomplish the purpose for which it is intended, shall be fined not more than \$10,000, imprisoned for not more than 5 years or both."