

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Georg Fischer Harvel
Address	7777 Sloane Drive, Little Rock, AR, 72206, United States
Type	Plastic Pipes
Description	Thermoplastic Pipe, Fittings and Joints TYPE SeaCor Thermoplastic CPVC Schedule 80 Pipe, Fittings and Joints
Trade Name	SeaCor Thermoplastic CPVC Schedule 80 Pipe, Fittings and Joints
Application	For Class III pipes of non-essential systems in locations where a '0' is indicated, as per Lloyd's Register Rules and Regulations for the Classification of Ships, Part 5 Chapter 12.
Specified Standard	Lloyd's Register Rules & Regulations for the Classification of Ships Lloyd's Register Rules and Regulations for Classification of Special Service Craft. ASTM D635 IMO Resolution 753(18)

1330 Enclave Parkway, Houston, Texas, 77077,
United States

Gopal Nair

Principal Specialist to Lloyd's Register North
America, Inc.
A member of the Lloyd's Register group

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IMO FTP Code Annex I Part 2 and 5

Ratings

Outside diameter: 1/2" to 12"
Pressure(bar): 57.7- 15.5
Temperature Range: 32°F (0°C) to 210°F (99°C)

Additional Tests

Surface Flammability test Annex 1 of IMO FTP Code (2010) done at South West Research Institute S.W.R.I project number 01.27008.01.103b dated October 8, 2021.

Other Conditions

1. Piping, connections and fittings are not to be used if carrying fluids capable of generating electrostatic charges and not to be used if passing through hazardous zones and spaces, regardless of the fluid being conveyed.
2. The use of plastic pipes and fittings on ships are to be acceptable to the National Authority of the country in which the ship is registered.
3. Installer's qualification should meet the requirements of IMO Resolution 753(18).
4. SeaCor should be installed using SeaCor marine cement and primer with optical brighteners .
5. Smoke and toxicity - because the total heat release (Qt) is less than 0.2 MJ, and the peak heat release rate (qp) is less than 0.1 kW, the material will not need further testing to comply with the smoke and toxicity requirements of Part 2 of Annex 1 of the IMO FTP Code.
6. Where the pipes penetrate the fire tight or water tight divisions integrity of the divisions, penetration and arrangements should satisfy the requirement of the Regulations.
7. Intermediate PQA assessment is due in first quarter of 2024.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register North America, Inc. of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 16/60010

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The Design Appraisal Document PRJ11100342652/002/16/60010(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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