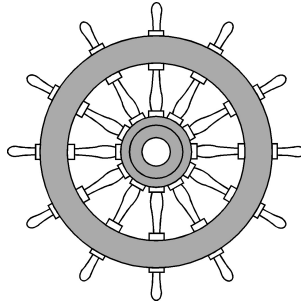


EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that Eurofins Expert Services Ltd did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission implementing regulation (EU) 2018/773 subject to any conditions in the schedule attached hereto.

Icerock Ductwrap

meet the requirements imposed in IMO 2010 FTP Code, Annex 1 Part 1 (IMO Resolution MSC.307(88) Annex 1 Part 1) and the provisions of Marine Equipment Directive 2014/90/EU, that apply to

non-combustible materials.

These products have been assigned a U.S. Coast Guard Module B number (**164.109 / EC0809**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004.

Manufacturer of the product is

Steinull hf

The Certificate is valid until January 2, 2023 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo, January 3, 2019

This document is electronically approved

Tiina Ala-Outinen
Business Manager

Heli Välimäki
Senior Expert

| | |
|----------------------------|---|
| Manufacturer | Steinull hf Skarðseyri 5, 550 Sauðárkrókur Iceland |
| Regulation Item | Item MED /3.13, non-combustible materials. |
| Products | Icerock Ductwrap, stone wool mat with thicknesses of 25 – 60 mm. |
| Product description | Stone wool mat with nominal density of 40 - 45 kg/m ³ faced with fibre scrim reinforced aluminium foil attached with polyethylene. The total weight of the facing and polyethylene is 82 g/m ² . Thickness of the aluminium foil is 18 µm and the weight of polyethylene glue is 18 g/m ² . |
| Technical document | Product Sheet Icerock Ductwrap, Steinull hf, October 2005. |
| Test reports | Test Report VTT-S-07681-12, November 27, 2012, VTT Expert Services Ltd., Finland. Test report VTT-S-04602-17, November 3, 2017, VTT Expert Services Ltd., Finland. |
| Test methods and standards | IMO 2010 FTP Code Annex 1 Part 1 (IMO Resolution MSC.307(88) Annex 1 Part 1) on non-combustibility. |
| Notes | <p>This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the notified body named on this certificate.</p> <p>Should the specified regulations or standards be amended during the period of validity of this certificate, the product is to be reapproved prior to it being placed on the market and on board vessels to which the amended regulations or standards apply.</p> <p>The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.</p> |

END OF CERTIFICATE