



# DET NORSKE VERITAS

## EC TYPE-EXAMINATION CERTIFICATE

*Application of:* Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

**CERTIFICATE NO. MED-B-4239**

This Certificate consists of 3 pages

*This is to certify that the*  
**Surface materials and floor coverings with low flame-spread characteristics: pipe insulation covers**

*with type designation(s)*  
**TROCELLEN 30 CL1 ALU LISCIO/  
TROCELLEN NASTRO ALU LISCIO**

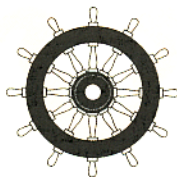
*Manufacturer*  
**Trocen Italia S.p.A.**  
**OSIO SOPRA, Italy**

*is found to comply with the requirements in the following Regulations/Standards:*  
Annex A.1, item No. A.1/3.18d and Annex B, Module B in the Directive. SOLAS 74 as amended, Reg. II-2/3.29, II-2/3.40.4, II-2/3.40.5, II-2/5.3.1.1, II-2/6.2, II-2/9.7.1.1.1, II-2/9.7.4.4.3.1 & X/3, 2000 HSC Code 7.4.3.4, 7.4.3.5, 7.4.3.6 and IMO FTP Code

*Further details of the product and conditions for certification are given overleaf.*

*Place and date*  
Høvik, 2007-04-13

for DET NORSKE VERITAS AS



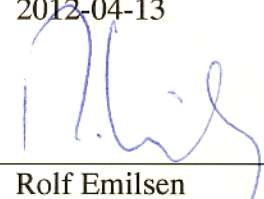
*This Certificate is valid until*  
2012-04-13

  
Kristen Ulveseter

Manager, MTPNO370

Department Systems & Components

Notified Body No. 0575

  
Rolf Emilsen

Surveyor

*DNV local office:*  
DNV Milan



*Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.*

*The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.*

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-4239  
Job Id.: EC-FP-171/344.1-  
000808-1  
Item No.: A1/3.18d

## Product description

### "Trocellen 30 Alu CL1 Liscio"

consisting of two 10 mm layers of expanded and cross-linked polyethylene foam glued together. One side of the sandwich panel is coated with aluminium sheet, the other side is treated with an acrylic adhesive. The same adhesive is fitted between aluminium/polyethylene and polyethylene/ polyethylene.

Thickness: 5 to 20 mm.

Density: 30 kg/m<sup>3</sup>.

"Trocellen Nastro Alu Liscio" aluminium tape treated with an acrylic adhesive to be used with Trocellen 30 Alu CL1 Liscio for joints and repairs.

Thickness: 50µ.

## Applications/Limitations

Approved for use as insulation material of low flame-spread characteristics, not generating excessive quantities of smoke nor toxic products in fire. The material is not defined as non-combustible.

### "Trocellen 30 Alu CL1 Liscio and Trocellen Nastro Alu Liscio"

may be used on cold service pipework / fittings for refrigeration system everywhere onboard, and for pipework, fittings, air ducts and tanks insulation in cargo areas, mail rooms, baggage rooms and refrigerated compartments of service spaces, and exterior locations.

Extent of application is to be considered and accepted for each case/project.

## Type Approval documentation

Test reports No.106021A2/1 and No.106021A2/2 dated 27 June 2001, No.106062A7/1 and No.106062A7/2 dated 5 July 2001 from C.S.N.I Laboratory Genova, Italy.

Technical Construction file Rev. 1.3 dated 4 December 2006 (For information).

Renewal Survey Report GEN-06-1527-1 dated 23 January 2007 from DNV Milan.

Tested according to IMO FTPC Part 2 & Part 5.

## Marking of product

The products or packing is to be marked with name of manufacturer and type designation and Mark of Conformity (see page 3).








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## Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

END OF CERTIFICATE

