



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 2010/68/EU, 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-7720**

This is to certify that the
Surface materials and floor coverings with low flame-spread characteristics: decorative veneers

with type designation(s)
LUXTEEL PVC

Manufacturer
UNION STEEL
Pusan, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.18a and Annex B, Module B in the Directive. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6, II-2/9 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO FTP Code

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

Høvik, 2012-05-09
for Det Norske Veritas AS



This Certificate is valid until
2017-05-09

Notified Body No.: **0575**


Marianne Strand Valderhaug
Head of Department

DNV local office:
Pusan


Piotr Orzechowski
Surveyor



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.



Certificate No.: MED-B-7720
Item No.: A1/3.18a
Job Id.: 344.1-003495-1

Product description

"LUXTEEL PVC"

composed of Hanametal SFR-2000B resin, flame retardant, stabilizer and adhesive KUB-508 manufacturer by "Kangam Chemical".

Total thickness is 0.15 + 0.05 mm.

Application/Limitation

Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO FTP Code Part 5 and to be MED certified.

Maximum gross calorific value shall be documented separately where applicable, ref. SOLAS Chapter II-2 Reg. 5.3.2.

Approved for use on metallic surface with thickness of at least 0.34 mm.

Each product is to be supplied with its manual for installation and maintenance.

Type Examination documentation

Test reports Nos. A2011-1317, A2011-1319 both dated 14 March 2012 from Fire Insurers Laboratories of Korea.


Tests carried out

Tested according to IMO FTPC Part 2 and Part 5.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, Mark of Conformity and USCG approval if applicable (see below).

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 shall 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.

USCG Approval

An U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of certificates of conformity for marine equipment" signed 17 October 2005.

