

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2013/52/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Surface materials and floor coverings with low flame-spread characteristics: floor coverings

with type designation(s)
ELTRANS Marine

Issued to

LG Hausys Ltd. / Ulsan plant
Ulsu-gun Ulsan, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:

Annex A.1, item No. A.1/3.18c 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 2010 FTP Code

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

Høvik, 2015-06-30
for **DNV GL AS**



This Certificate is valid until
2020-06-29



Petter Langnes
Head of Department

Notified Body No.: **0575**

DNV GL local office:
Ulsan



Ragnar Tonjer
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.

Product description

"ELTRANS Marine"

Is a multilayer floor covering system composed of, from bottom to top:

1. Fabric Layer 0.5 ± 0.1 mm
2. Compact Layer 1.1 ± 0.1 mm
3. Glass paper Layer 0.2 mm
4. Printed Layer 0.01 mm
5. UV Coated Wear Layer 0.2 mm

Total maximum thickness: 2.0 mm.

Specific Weight: 2400 g/m².

Maximum organic content: 52 %.

Application/Limitation

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

Approved for all colour variations.

Approved for use as floor covering on non-combustible substrate.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5 and to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

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

Type Examination documentation

A2015-0610R dated 2015-06-22 and A2015-0611R dated 2015-06-22, both from Fire Insurers Laboratories of Korea (FILK).

Tests carried out

Tested according to IMO 2010 FTP Code part 2 and part 5.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, the Mark of Conformity and USCG approval number 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

A 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.

