



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 2011/75/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-8646**

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

with type designation(s)
MARINE FLOOR SOFT

Manufacturer
I-BADAK Co., Ltd.
Gyeonggi-do, 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 FTP Code

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

Høvik, 2013-11-04
for **Det Norske Veritas AS**



This Certificate is valid until
2018-11-04

Notified Body No.: **0575**

DNV local office:
Seoul

Rolf Emilsen

Rolf Emilsen
Surveyor

M. Strand Valderhaug

Marianne Strand Valderhaug
Head of Department



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-8646
Item No.: A1/3.18c
Job Id.: 344.1-000946-2

Product description

"MARINE FLOOR SOFT"

floor covering composed of approximately 5 mm rubber type designation: NBR latex and approximately 0.1 mm bond W-310SE manufactured by Hwa Sung Corp.

Maximum thickness: 5 mm.

Applications/Limitations

Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire. Approved for use as floor covering on non-combustible substrate throughout the accommodation.

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

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

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

Type Examination documentation

Test Reports No. 2008-0821 and 2008-0822, both dated in September 2008, from Fire Insurers Laboratories of Korea (FILK), Korea.

Tests carried out

Tested according to IMO FTP Code Parts 2 and 5 and in compliance with IMO 2010 FTP Code Ch. 8

Marking of product

The product is to be marked with name of manufacturer, type designation, fire technical rating the MED 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

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.





DET NORSKE VERITAS

QS - CERTIFICATE OF ASSESSMENT - EC

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2011/75/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-D-1822**

This is to certify that the Quality System for the
Surface materials and floor coverings with low flame-spread characteristics

with type designation(s) as specified in the Appendix to this Certificate

Manufacturer
I-BADAK Co., Ltd.
Gyeonggi-do, Republic of Korea

is found to comply with the requirements applicable to it.
The quality system for the product, defined in Annex A.1, Item No. A.1/3.18, has been assessed with respect to the procedure of conformity assessment described in Annex B, Module D in the directive.

Limitations:

Modifications made to the Quality System shall immediately be reported to Det Norske Veritas AS in order to examine whether this Certificate remains valid. Annual periodical audits will be held to verify the validity of the Certificate.

Høvik, 2013-11-04
for **Det Norske Veritas AS**



Notified Body No.: **0575**

DNV local office:
Seoul

This Certificate is valid until
2018-11-04


Marianne Strand Valderhaug
Head of Department


Rolf Emilsen
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.



Certificate No.: MED-D-1822
Item No.: A.1/3.18
Job Id.: 344.1-001845-5

APPENDIX, REV. NO. 0

QS - Certificate of Assessment – EC, Certificate no. MED-D-1822

Type designation	EC Type-Examination Certificate No.	Expiry date	USCG approval number
MARINE FLOOR SOFT	MED-B-8646	2018-11-04	164.117/EC0575/8646

The manufacturer complies with the Council Directive 96/98/EC on Marine Equipment and is allowed to affix the Mark of Conformity followed by the DNV identification number 0575 and the two last digits of the number of the year in which the product is produced.

Example:  0575/13

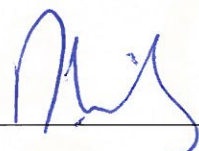
The manufacturer shall issue a Declaration of Conformity for each product with reference to the EC Type-Examination Certificate and this QS – Certificate of Assessment – EC.

USCG Approval

Based on 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, the manufacturer is allowed to affix the U.S. Coast Guard approval number mentioned in the table above (when applicable).

Place and date: Høvik, 2013-11-04

for DET NORSKE VERITAS AS



Surveyor



Name in block letters:
Rolf Emilsen