



# 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-8152**

This is to certify that the  
**Penetrations through "A" class divisions: electric cable transits**

with type designation(s)  
**ROKUMARINE**

Manufacturer  
**Furukawa Electric Industrial Cable Co., Ltd.**  
**Tokyo, Japan**

is found to comply with the requirements in the following Regulations/Standards:  
Annex A.1, item No. A.1/3.26a and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.1276 and IMO FTP Code

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

**Høvik, 2013-01-23**  
for Det Norske Veritas AS



This Certificate is valid until  
**2015-12-29**

Notified Body No.: **0575**

  
**Marianne Strand Valderhaug**  
Head of Department

DNV local office:  
**Yokohama**

  
**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-8152  
Item No.: A1/3.26a  
Job Id.: 344.1-002811-5

## Product description

### "ROKUMARINE"

consisting of a 4.5 mm thick and 100 mm long steel sleeve welded or bolted to the bulkhead/deck and filled with 60 mm Fireproof-Block in the middle for bulkhead and in lower side for deck, and sealed with a Fireproof-Sealing Material on each side for bulkhead and upper side for deck. Class A-60 of SGP penetration for both bulkhead and deck is filled only with Fire-Sealing Material (without Fireproof-Block) according to Spec. No.8S-11058.

For Class A-60, sleeve is additionally insulated on one side for the bulkhead and on under side for the deck with an A-60 Class Insulation.

For Class A-0, additional 100 mm long and 10 mm thick layer of Fireproof-Sealing Material is wrapped around cables on both sides for the bulkhead and on upper unexposed side for the deck.

The product may also be manufactured by Furukawa Techno Material Co., Ltd., based on production audit (see related MED-D certificate).

Max. / min. size of the penetration (coaming): 300 mm x 800 mm / 100 mm x 100 mm (w x l)

Max. / min. size of the penetration (SGP): 200 A (Ø 200 mm) / 32 A (Ø 32 mm).

For further details, see the drawing referred to under Type Examination documentation below.

## Application/Limitation

Approved for use as penetration system in Class A-0 to A-60 steel bulkheads/decks. For A-15 and A-30 the penetration is to be insulated as A-60, and in addition the division is to be insulated at least 200 mm around the penetration. Other applications are subject to case-by-case approval.

No more than 40% of the inside cross sectional area of each transit should be occupied by cables.

The insulation material used has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

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

## Type Examination documentation

Test reports Nos.:

- 10-077 (E) dated 25 June 2010,
- 10-015 (E) dated 22 April 2010,
- 11-076 (E) dated 25 May 2011 and
- 11-077 (E) dated 25 May 2011
- 12-181 (E) dated 25 July 2012
- 12-378 (E) dated 17 December 2012

all from Research Institute of Marine Engineering, Tokyo, Japan.

Drawing Spec. Nos.:

- 8S-10174A (5 pages) dated 22 December 2010 from the manufacturer.
- 8S-11058 (5 pages) dated 9 June 2011 from the manufacturer.
- 8S-12093A (5 pages) dated 14 January 2013 from the manufacturer.

## Tests carried out

Tested according to IMO FTPC Part 3 and in accordance with IMO 2010 FTP Code Ch. 8.

## Marking of product

The product or packing is to be marked with name of manufacturer, type designation, fire-technical rating, MED Mark of Conformity and USCG approval number if applicable (see on 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 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.

