



Marine &amp; Offshore

Certificate number: 51506/A0 BV

File number: ACM137/6299/2

Product code: 0725I

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**Japan Marine Technology Ltd. (Kor)**  
BUSAN - KOREA (REPUBLIC OF)

*for the type of product*

**STERN TUBE SEALING GLANDS**  
STERNGUARD MK II - STERNGUARD 4BL

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 20 Aug 2025**

**For Bureau Veritas Marine & Offshore,**

At BV PUSAN, on 20 Aug 2020,

Chang-Uk HONG



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarpm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=hh9nptblw>  
BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

Oil lubricated shaft seals for propeller shafts :

**STERNGUARD MK II - STERNGUARD 4BL** (same model as MK II with additional seal ring)

Seal size: 115 - 1250 mm

Maximum fluid pressure : 3 bars

### 2. DOCUMENTS AND DRAWINGS :

4BL type sterntube seal (AFT) nbr 4BL-C600-000 dated 2017/10/23

MK II sterntube seal (FWD) nbr MKII-F600-000 dated 2017/10/23

MK II sterntube seal (AFT) nbr 4BL-C600-000 dated 2017/10/23

Recommended L.O. list, mineral & synthetic oil nbr JMT-LUB-INS rev. 0 dated 2017/11/07

Recommended L.O. list, environmentally acceptable lubricants nbr JMT-EAL-INS rev. 0 dated 2017/11/07

Sternguard sealing system Instruction manual nbr JMT-SEAL-INS rev. 0 dated 2017/11/14

Test procedure for sternguard sealing system nbr JMT-TEST-SEAL rev. 0 dated 2017/11/07

### 3. TEST REPORTS :

3.1 - Wear & Friction Test dated 2019.01.22

3.2 - Rubber bearing material test report N° KOMERI-0110-18T2124 dated 2019.01.24

### 4. APPLICATION / LIMITATION :

4.1 - Stern tube sealing gland for oil filled stern tube shaft.

4.2 - This sealing gland system is eligible for Tailshaft Modified Survey Periodicity as per BV Rules NR 467 PtA, Ch2 Sec2 article 5.5.3 provided that all the requirements are complied with (depending on the material of the shaft, the keyway, the oil analysis and consumption recorder, the monitoring of stern tube bearing temperature and the nature of the protection against corrosion).

4.3 - Maintenance of parts may be made in water as per Manufacturer's recommendation.

4.4 - This sealing gland system is compatible with the requirements of additional notation MON-SHAFT (BV Rules NR467 Pt. F, ch. 5, Sec. 2) provided that all other requirements are complied with.

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The **STERNGUARD MK II & STERNGUARD 4BL** Seals are to be supplied by **Japan Marine Technology Ltd. (Kor)** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

### 6. MARKING OF PRODUCT :

- Manufacturer's name/type

- Size

- Serial number

### 7. OTHERS :

It is **Japan Marine Technology Ltd. (Kor)**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*