



Marine & Offshore

Certificate number: 23149/C0 BV

File number: ACM 137/106/1

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

AEGIR-MARINE BV

Wijk bij Duurstede - NETHERLANDS

for the type of product

STERN TUBE SEALING GLANDS

PRIME Standard & Secure,
PRIMAIR Standard & Secure,
PRIME Seal ring
PRIMAIR Compact

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: 30 Jan 2025

For Bureau Veritas Marine & Offshore,

At BV GRONINGEN, on 30 Jan 2020,

John Mondt



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. 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 SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

- *Internal and External Oil lubricated stern tube seals (4 types):*

PRIME Standard, PRIME Secure, PRIMAIR Standard, PRIMAIR Secure & PRIMAIR Compact:

- **Standard / Secure version**
 - outer seal: three lip-seals for the Standard version, four lip-seals for the Secure version,
 - inner seal: two lip-seals for both version.
- **Available options:**
 - the aft seal may be fitted with an Aft Protection System -APS- (PRIME types only)
 - the aft seal may be fitted with a spacer ring (split or non-split execution)

The aft seal of **PRIMAIR types** is fitted with an air regulated pressure chamber and a drain collection unit to avoid external oil leakage

- *Stern tube seal ring for the prevention of oil leakage and/or water ingress (1 type):*

PRIME seal ring:

Sizes:

PRIME type: Seal Size 125 to 1250 for propeller shaft diameters: 115-1150 mm.
PRIMAIR type: Seal Size 450 to 1250 for propeller shaft diameters: 426-1150 mm.
PRIME Seal ring type: Seal Size 125 to 1250 for propeller shaft diameters: 115-1150 mm.
PRIMAIR Compact type: Seal Size 300 to 1250 for propeller shaft diameters: 285-1150 mm.

Materials:

Casings: Cast iron or Bronze.
 Liner: Cr Steel.
 Seal rings: NBR/VITON

2. DOCUMENTS AND DRAWINGS:

• Dimensions table for PRIME seals - STANDARD type:		table N°. 1101-00000-00
	Fwd seal:	draw. N°. 1101-20000.00
	Aft seal:	draw. N°. 1101-10000.00
(with APS)	Aft seal:	draw. N°. 1101-10000.13
• Dimensions table for PRIME seals - SECURE type:		table N°. 1102-00000-00
	Fwd seal:	draw. N°. 1102-20000.00
	Aft seal:	draw. . N°.1101-20000.00
• Dimensions table for PRIMAIR seals - STANDARD type:		table N°. A-06-1-0000
	Fwd seal:	draw. N°. 1101-20000.00
	Aft seal:	draw. N°. 1101-10000.00
(with APS)	Aft seal:	draw. N°. A-06-1-0000-000-00
• Dimensions table for PRIMAIR seals - SECURE type:		table N°. A-07-1-0000
	Fwd seal:	draw. N°. 1102-20000.00
	Aft seal:	draw. N°. A-07-1-0000-000-00
• Piping diagram for PRIMAIR STANDARD and SECURE type:		draw. N°. A-03-1-0000-105-00
• Piping diagram for PRIMAIR Compact type:		draw. N°. A-06-0-000-350-05

Nota : the piping diagram for each application are still to be submitted by the shipyard

3. TEST REPORTS:

- TNO test report n° 43/03.007177/sec dated 2002-12-04,
- ERT test report n° 08174 dated 2009-01-30.

4. APPLICATION / LIMITATION:

4.1 - Stern Tube Sealing Gland for oil filled stern tube.

4.2 - On board installation & Maintenance requirements:

Due consideration is to be paid to the Manufacturer's recommendations concerning the installation, inspection, operation and maintenance of the seal.

4.3 - Tailshaft complete survey periodicity is to be as per the provisions of BV Rules Pt A, Ch. 2, Sec. 2 § 5.5.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The Sealing Glands are to be supplied by **AEGIR-MARINE BV** 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.

5.4 - For information, **AEGIR-MARINE BV** has declared to Bureau Veritas the following production site(s):

AEGIR-MARINE BV
Molenvliet 34
3961 MV Wijk bij Duurstede
NETHERLANDS

6. MARKING OF PRODUCT:

- Serial number.

- Size.

- Bureau Veritas Marks.

(only for complete seals, not applicable for seal rings)

7. OTHERS:

7.1 - It is **AEGIR-MARINE BV**'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.

7.2 - This Certificate supersedes the TAC 23149/B0 BV issued on 17 Nov 2015 by the Society.

*** END OF CERTIFICATE ***