



Marine & Offshore

Certificate number: 07102/E0 BV

File number: ACC 122/32

Product code: 6461H

*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*

**HERCULES ATLANTIC PRODUCTS LTD.**

DARTMOUTH - UNITED KINGDOM

*for the type of product*

**HATCHES / HATCH COVERS**

HERCULES FLUSH DECK HATCHES

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships (NR467).

*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: 18 Jan 2023**

**For Bureau Veritas Marine & Offshore,**

At BV LONDON, on 18 Jan 2018,

Spencer Yule



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.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=fluopg1pvn>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

#### HERCULES FLUSH DECK HATCHES

Type	Overall size (mm)	Clear opening (mm)
3628	1105 x 900	915 x 710
2828	900 x 900	710 x 710
2515	825 x 565	640 x 380
2424	790 x 790	610 x 610
2020	660 x 660	510 x 510
15	565 mm diameter	380 mm diameter

Main casting : Aluminium alloy Al LM6 (According to BV Rules, with minimum specified yield stress : 100 N/mm<sup>2</sup> after annealing).

Mechanism : Stainless Steel.

Seals : Synthetic rubber.

### 2. DOCUMENTS AND DRAWINGS :

- K 04194 Cast Hercules hatch range as stamped by BV on 01.08.97
- K27696 Hercules hatch details as stamped by BV on 01.08.97
- 93712 Cast hatches dated on 20.01.95

### 3. TEST REPORTS :

Water pressure test witnessed by BUREAU VERITAS Surveyors. Attestation : 3148/SEW/N/93 dated 4/08/1993.

### 4. APPLICATION / LIMITATION :

- 4.1 - Access hatches to be fitted flush on aluminium decks exposed to weather loads below 1.8t/m<sup>2</sup>.
- 4.2 - Allowance for absence of coaming depends on the position of the hatches on board and is therefore to be confirmed by a case by case review.
- 4.3 - Connection to deck is not covered by this certificate. Deck assumed rigid.
- 4.4 - This certificate only covers the structural strength of the hatches.

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The flush deck hatch are to be supplied by **Hercules Atlantic Products LTD** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Hercules Atlantic Products LTD** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

*Hercules Atlantic Products Ltd  
Nelson Road Industrial Estate  
Dartmouth, Devon - TQ6 9 LA*

**6. MARKING OF PRODUCT :**

As per the requirements stated on the cover page of this certificate.

**7. OTHERS :**

7.1 - This approval is given with the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes Type Approval Certificate n° 07102/D0 BV issued on 09/10/2012 by the Society.

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