



Marine & Offshore

Certificate number: 54850/A0 BV

File number: MAT 117762-2018

Product code: 81571

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

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## APPROVAL CERTIFICATE for MATERIALS

*This certificate is issued to*

**Scandicast SIA**

Riga - LATVIA

*for the type of product*

**IRON CASTINGS**

Grey lamellar graphite and nodular graphite cast iron.

### Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

*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: 02 Apr 2024**

**For Bureau Veritas Marine & Offshore,**

At BV HELSINKI, on 02 Apr 2019,

Tommy Andersson



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 SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION :**

Grey lamellar graphite cast iron with maximum weight 100kg.  
Nodular graphite cast iron with maximum weight 100kg.

Melting scraps by Induction furnace. Sand casting. Castings are delivered As Cast.

### **2. DOCUMENTS AND DRAWINGS :**

As per documents issued by Sperre Baltic SIA (Sandicast SIA):

- "Approval application report" and associated appendices, submitted on October 2018.
- Document No. INS.009.2006 Version No.4 - Preparation of samples for mechanical properties dated 09 August 2016.

### **3. TEST REPORTS :**

Typical grades tested are:

GJL-300 according to standard EN 1561 for grey lamellar graphite cast iron.  
GJS-700-2 according to standard EN 1563 for spheroidal graphite cast iron.

Reports issued by Sperre Baltic SIA (Sandicast SIA):

- Inspection report No. 2018/425\_BV dated 15 November 2018.
- Inspection report No. 2018/424\_BV dated 15 November 2018.

### **4. APPLICATION / LIMITATION :**

As per Bureau Veritas Rules for Classification. Tensile properties and Charpy V-notch test requirements are to be as per Bureau Veritas Materials Rules and/or alternative specification mentioned on reviewed documents and drawings, as applicable.

### **5. PRODUCTION SURVEY REQUIREMENTS :**

- 5.1 - The iron castings are to be supplied by Sandicast SIA 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 :**

As per Bureau Veritas Rules for Classification.

### **7. OTHERS :**

Nil.

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