



Marine & Offshore

Certificate number: 14504/D0 BV

File number: MAT 57522

Product code: 8999H

*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*

**VIRAJ PROFILES PRIVATE LIMITED**  
PALGHAR - INDIA

*for the type of product*

**SEMI-FINISHED PRODUCTS**

Continuous cast billets, ingots in stainless steel.

**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: 18 Jan 2028**

**For Bureau Veritas Marine & Offshore,**

At BV MUMBAI (BOMBAY), on 18 Jan 2023,

Nitin NALAWADE

***This certificate was created electronically and is valid without signature***



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 :

1.1 - Steel Melting Shop No.01 - Semi-finished products for forgings or rolled products in stainless steels:

Semi-finished product type	Casting method	Dimension/Weight range
Square Billet	CC	From 120mm×120mm to 200mm×200mm From 112 Kg/m to 312 Kg/m
Ingot	IC	From 4.5 to 15tons

Steelmaking by induction furnace with Argon-Oxygen Decarburisation. Continuous casting (CC). Ingot casting (IC).

1.2 - Steel Melting Shop No.02 & No.03 - Semi-finished products for forgings or rolled products in stainless steels:

Semi-finished product type	Casting method	Dimension/Weight range
Square Billet	CC	From 100mm×100mm to 300mm×300mm From 79Kg/m to 682Kg/m
Round Billet	CC	FromØ200mm to Ø300mm Up to 534Kg/m

Steelmaking by induction furnace with Argon-Oxygen Decarburisation. Continuous casting (CC).

### 2. DOCUMENTS AND DRAWINGS :

2.1 - As per documents issued by Viraj Profiles Limited:

- Ref.F/PRD/EL/2 Rev.0, Ref.SMS/FC/01 Rev.0, Ref.F/PRD/EL/1 Rev.0 dated 01/05/2017.
- "Quality Assurance manual" Rev.03dated 13/04/2015, "APEX Quality manual" Rev.02 dated 11/09/2015.

### 3. TEST REPORTS :

3.1 - Typical grades tested: 304L, 316L and 321.

3.2 - As per following inspection documents issued by Viraj Profiles Limited:

- Certificates issued for steel melting shop No.1: Heat 103948 dated 04/12/2016.
- Certificates issued for steel melting shop No.2: Heat 104507 dated 05/02/2017; No.104079 dated 14/12/2016; No.44089dated 28/12/2016.
- Certificates issued for steel melting shop No.3: Heat 101330 dated 15/02/2016; Heat No.101491 dated 07/03/2016; Heat No.40066 dated 08/01/2016; HeatNo.40528 dated 17/02/2016; HeatNo.101328 dated 15/02/2016; Heat No.40307 dated 28/01/2016.
- Certificates Ref.83429791/1 dated 23/04/2017; Ref. No.83430762/1 dated 29/04/2017; Ref. No.83429203/1 dated 19/04/2017; No.83423116/1 dated 07/03/2017.
- Report "Inclusion rating as per ASTM E 45" issued by Viraj Profiles Ltd.- Forging division and dated 10/02/2017.

### 4. APPLICATION / LIMITATION :

Chemical composition, tensile properties, and Charpy-V notch test requirements are to be as per Bureau Veritas Rules NR216 and/or alternative specification mentioned on reviewed drawings as applicable.

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The semi-finished products are to be supplied by Viraj Profiles Private Limited 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 - Viraj Profiles Limited has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, Viraj Profiles Private Limited has declared to Bureau Veritas the following production site:

**VIRAJ PROFILES PRIVATE LIMITED , STEEL MELTING DIVISION (SMS)**

G-2/G33, MIDC, Tarapur industrial area,  
Boisar, Dist. Palghar,  
Palghar-401506 INDIA

**6. MARKING OF PRODUCT :**

As per Bureau Veritas Rules for Classification.

**7. OTHERS :**

This certificate replaces approvals from No.14504/A0 BV to No.14504/C0 BV.

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