



Marine & Offshore

Certificate number: 48322/B0 BV

File number: MAT 12586-2016

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

TRAVI E PROFILATI PALLANZENO S.p.A.
SAN ZENO NAVIGLIO (BS) - ITALY

for the type of product

SEMI-FINISHED PRODUCTS

Semi-finished products for forgings in carbon, carbon-manganese and alloy steels

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: 25 Feb 2027

For Bureau Veritas Marine & Offshore,

At BV VENEZIA, on 25 Feb 2022,

Sandro BRUSEGAN



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 :

Semi-finished products for forgings in Carbon, Carbon-manganese and Alloy steels:

Product type	Dimension range	Weight range
Billet	From 160mm×160mm to 200mm×200mm	From 200kg/m to 311kg/m
Square Bloom	From 230mm×230mm to 280mm×280mm	From 410kg/m to 615kg/m
Rectangular Bloom	From 300mm×400mm	Up to 935kg/m
Round	From Ø220mm to Ø500mm	From 298kg/m to 1536kg/m

EAF: Electric Arc Furnace; LF: Ladle Refining Furnace; VAD: Vacuum Degassing; Continuous casting.

Typical steel grades are :

Steel group	Reference standard
Carbon steel	ASTM A105 EN 10025-2; EN 10083-2; EN 10250-2; EN ISO 683-1
Carbon-manganese steel	DIN 17115 EN 10025-2; EN 10025-3; EN 10222-2 ASTM A350; ASTM A707; ASTM A694
Alloy steel	UNI EN 10084; EN 10083-3; EN ISO 683-2; EN ISO 683-3 ASTM A29; ASTM A182; ASTM A519

2. DOCUMENTS AND DRAWINGS :

2.1 - As per Document sent by Travi e Profilati di Pallanzeno S.r.l. dated January 2017.

3. TEST REPORTS :

3.1 - As per reports issued by Travi e Profilati di Pallanzeno S.r.l.
- Reports "BV MTC Macro" Revision No.02 dated February 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 Travi e Profilati Pallanzeno S.p.A. 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 - Travi e Profilati Pallanzeno S.p.A. 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, Travi e Profilati Pallanzeno S.p.A. has declared to Bureau Veritas the following production site:

TRAVI E PROFILATI PALLANZENO S.p.A.

Via A. Diaz 248

25010 San Zeno Naviglio (BS) Italy

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals from No.48322/A0 BV to No.48322/A1 BV.

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