



MARINE DIVISION

Certificate number: 11200/C0 BV

File number: CHA 11200/01

Product code: 6438I

*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*

**MARIT**  
Valenciennes - FRANCE

*for the type of product*

### SHIP ANCHOR CHAIN CABLE

Flash butt welded studlink anchor chain cables in steel grades Q1a, Q2a and Q3a

**Requirements:**

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

*This certificate is issued to attest that BUREAU VERITAS 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: 23 Dec 2016**

For BUREAU VERITAS,

At BV VALENCIENNES, on 23 Dec 2011,

Lucien Fratini



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. 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 Division 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 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 :

Studlink anchor chain cables in steel grades Q1a, Q2a and Q3a with diameter from 14mm up to 100mm.

Chain cables manufactured by flash butt welding.

### 2. DOCUMENTS AND DRAWINGS :

- Chemical composition of steelgrade for Q3a chain cable :

Chemical composition of steelgrade Q3											
C (%)	Mn (%)	Si (%)	Cr (%)	Mo (%)	Ni (%)	Al (%)	S and P (%)	Cu (%)	N (%)	Nb (%)	V (%)
0,23 min 0,33 max	1,20 min 1,90 max	0,20 min 0,35 max	0,25 max	0,08 max	0,40 max	0,020 min 0,050 max	0,030 max	0,35 max	0,009 max	0,05 max	0,10 max

### 3. TEST REPORTS :

- "Dossier homologation chaines à étais DN81 Q3 - ETS MARIT" issued by MARIT and dated 1987.
- BV Certificate No. 1584535VLS06 with certificate No. 1855 issued by MARIT and dated 28 April 2006.

### 4. APPLICATION / LIMITATION :

Round bars used for chain cables grade Q1a, Q2a and Q3a are to be with Bureau Veritas certificate of inspection in accordance with Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units.

MARIT has to inform its clients about proper methods of arrangement, fitting and general maintenance of the products.

### 5. PRODUCTION SURVEY REQUIREMENTS :

The chain cables are to be manufactured, examined and tested by MARIT in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

Arrangements shall be made for a Society's Surveyor to attend the relevant tests and examinations at manufacturer's works or to perform the relevant audits when an alternative survey scheme (BV Mode I) has been agreed. Relevant Bureau Veritas certificate will be issued after satisfactory completion of the procedure.

### 6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for the Classification of Steel Ships.

### 7. OTHERS :

This certificate cancels and replaces approval certificates number A & CH/FR.100.01 dated march 1987, No.11200/A0 BV and No. 11200/B0 BV.

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