



Marine & Offshore

Certificate number: 09901/E0 BV

File number: MAT 1543/02

Product code: 9009I

*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*

**thyssenkrupp Steel Europe AG**  
Duisburg - GERMANY

*for the type of product*

### EXTRA HIGH STRENGTH STEEL ROLLED PRODUCTS

Hot rolled plates in steel grades N-A-XTRA M550, M620, M700, 550, 620, 700

#### 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 is a renewal of certificate N° 09901/D0 BV expiring on 23/08/2020*

**This certificate will expire on: 23 Aug 2023**

**For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 03 Aug 2020,

Jens Bauermeister



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 :**

Hot rolled plates in steel grade N-A-XTRA M 550, M 620, M 700, 550, 620, 700 in quenched and tempered condition up to 50mm.

<b>ThyssenKrupp Steel Europe AG steel grades</b>	<b>Standard designation according to EN 10025-6</b>	<b>Equivalent grade according to Bureau Veritas Rules</b>
N-A-XTRA M 550	S 550 QL	A550
N-A-XTRA M 620	S 620 QL	N.A.
N-A-XTRA M 700	S 690 QL	N.A.
N-A-XTRA 550	S 550 QL1	A550
N-A-XTRA 620	S 620 QL1	A620
N-A-XTRA 700	S 690 QL1	A690

Steel manufactured by Oxygen Process; Plates rolled from continuous cast slabs supplied by Beeckerwerth and HKM Steel Plants.

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

-Specification 215 issued by THYSSENKRUPP STAHL AG DUISBURG and dated February 2004.

### **3. TEST REPORTS**

- "Approval test for N-A-XTRA 70" issued by THYSSENKRUPP STAHL and dated January 1996.
- "Auswertungsbericht N-A-XTRA 70" test report ZQ-Q-ZA issued by THYSSENKRUPP STAHL and dated 05/07/1983.

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

As per Bureau Veritas Rules for Classification.

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

- 5.1 - The steel plates are to be supplied by thyssenkrupp Steel Europe AG 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 :**

This certificate replaces approvals from No.09901/A0 BV to No.09901/D0 BV.

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