



MARINE DIVISION

Certificate number: 09901/C0 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

www.veristar.com

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 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 Aug 2015

For BUREAU VERITAS,

At BV HAMBURG, on 23 Aug 2010,

Adama Diene



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. 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 :

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.

ThyssenKrupp Steel Europe AG steel grades	Standard designation according to EN 10025-6	Equivalent grade according to Bureau Veritas Rules
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 :

As per 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 :

The steel plates are to be manufactured, examined and tested by ThyssenKrupp Steel Europe AG 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 Classification.

7. OTHERS :

This certificate cancels and replaces approvals number 09901/A0 BV dated 2 June 2000, 09901/B0 dated 15 September 2005 and 09901/B1 dated 20 October 2005.

*** END OF CERTIFICATE ***