



Certificate No : MD00/1230/0006/9a

RAMNÄS BRUK AB
Ramnäs Works
Box 14
S-73060 Ramnäs
Sweden

has been approved as a manufacturer in accordance with the requirements of Lloyd's Register for :-

Chain Cable

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials. The full details of the processes, products and grades to which this approval applies are given in the Appendix of this certificate.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above manufacturer and is valid until the date given below.

Valid Until : 26 May 2008
Date of Issue : 03 December 2007

W Wistance

Senior Metallurgical Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register Group

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



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Appendix 1

RAMNÄS BRUK AB

Ramnäs Works

Box 14

S-73060 Ramnäs

Sweden

Product	Grades	mm nominal diameter Maximum
Ship stud link flash butt welded	U1, U2(a), U3(a)	165.00
Mooring stud link	R3, R3S, R4, API-2F	165.00
Mooring studless	R3, R3S, R4	165.00
API-2F manufactured under API Licence No. 2F-008		

Approval for Grades R3 and R3S is restricted to chain cable made from bars to the following agreed specifications;

OVAKO 295A R3 manufactured by OVAKO Hofors AB up to 134mm.

CORUS R3 manufactured by Corus Engineering Steels (Stocksbridge and Rotherham) up to 165mm.

CORUS R3S manufactured by Corus Engineering Steels (Stocksbridge and Rotherham) up to 165mm.

Approval for Grades R4 is restricted to chain cable made from bars to the following specifications;

OVAKO 250 R4 manufactured by OVAKO Hofors AB up to 146mm.

OVAKO 296K R4 manufactured by OVAKO Hofors AB up to 165mm.

CORUS R4 manufactured by Corus Engineering Steels (Stocksbridge and Rotherham) up to 122mm.

CORUS R4 L/C manufactured by Corus Engineering Steels (Stocksbridge and Rotherham) up to 165mm.

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