



Certificate No : MD00/4618/0002/9b

Appendix 1

GROFSMEDERIJ NIEUWKOOP B.V.
Transportweg 47,
2421 LT Nieuwkoop,
Zuid Holland,
The Netherlands

Product	Grades	mm nominal diameter Maximum
Forged Fittings	R4	165.00

Approval for R4 forged fittings covers mooring chain accessories to a maximum component bar diameter of 230mm intended for chain cable to a maximum nominal diameter of 165mm.

Approval for R4 grade shackles requires that smooth turned bar in the Q+T supply condition is sourced from Tata Steel UK Ltd. Stocksbridge Works for the shackle pins, and that smooth turned bar in the annealed supply condition is sourced from Tata Steel UK Ltd. Stocksbridge Works for the shackle bodies.

Valid Until : 04 October 2019
Date of Issue : 29 November 2016

Gavin Young

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



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GROFSMEDERIJ NIEUWKOOP B.V.
Transportweg 47,
2421 LT Nieuwkoop,
Zuid Holland,
The Netherlands

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

Fittings 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 : 04 October 2019
Date of Issue : 29 November 2016

A handwritten signature in blue ink, appearing to read 'G. Young', written over a horizontal line.

Gavin Young
Metallurgical Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group