

## **S4** Criteria for the Use of High Tensile Steel with Minimum Yield Stress of 315 N/mm<sup>2</sup>, 355 N/mm<sup>2</sup> and 390 N/mm<sup>2</sup>

(1973)  
(Rev.1  
1974)  
(Rev.2  
Apr  
2007)  
(Rev.3  
May  
2010)

This UR does not apply to CSR Bulk Carriers and Oil Tankers.

$k$  = 0.78 for steel with  $Y = 315 \text{ N/mm}^2$

$k$  = 0.72 for steel with  $Y = 355 \text{ N/mm}^2$

$k$  = 0.68 for steel with  $Y = 390 \text{ N/mm}^2$

provided that the moment of inertia of the midship section is not less than:

$I_{\min}$  =  $3 W_{\min} L$  (cm<sup>4</sup>)

$Y$  = minimum yield stress

$L$  = Rule length of ship (m)

$W_{\min}$  = minimum mild steel section modulus (cm<sup>2</sup>) as given for a new ship in S7. Any reduction for corrosion control is not to be taken account of.

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