

# SC 153 Rudder Stock Diameter

(Feb 2000)  
(Corr.1  
Dec 2019)

**Reg.II-1/29.3.3 of SOLAS reads as follows:**

*“The main steering gear and rudder stock shall be:*

*operated by power where necessary to meet the requirements of paragraph 3.2 and in any case when the Administration requires a rudder stock of over 120 mm diameter in way of the tiller, excluding strengthening for navigation in ice;”*

**Reg.II-1/29.4.3 of SOLAS reads as follows:**

*“The auxiliary steering gear shall be:*

*operated by power where necessary to meet the requirements of paragraph 4.2 and in any case when the Administration requires a rudder stock of over 230 mm diameter in way of tiller, excluding strengthening for navigation in ice.”*

**Reg.II-1/29.14 of SOLAS reads as follows:**

*“Where the rudder stock is required to be over 230 mm diameter in way of the tiller, excluding strengthening for navigation in ice, an alternate power supply, sufficient at least to supply the steering gear power unit which complies with the requirements of paragraph 4.2 and also its associated control system and the rudder angle indicator, shall be provided automatically, within 45 s, either from the emergency source of power or from an independent source of power located in the steering gear compartment”*

## Interpretation

1. When calculating the diameter of the rudder stock, cognizance must be taken of SOLAS II-1/29.3.3 and 29.4.3.
2. In this regard, the diameters mentioned in SOLAS II-1/29.3.3, 29.4.3 and 29.14 should be taken as having been calculated for rudder stock of mild steel with a yield stress of 235 N/mm<sup>2</sup>. (i.e. with a material factor k=1)

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Note:

1. This UI SC 153 is to be uniformly implemented by IACS Members and Associates from 1 January 2001.

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