

PART

3

CHAPTER **5 Equipment**

SECTION **1 Anchoring, Mooring and Towing Equipment**

1 General

All self-propelled vessels are to have anchors and chains. The anchors and their cables are to be connected and positioned ready for use. Means are to be provided for stopping each cable as it is paid out and the windlass is to be capable of heaving in either cable. Suitable arrangements are to be provided for securing the anchors and stowing the cables. Cables which are intended to form part of the equipment are not to be used as check chains when the vessel is launched. The inboard ends of the cables of the bower anchors are to be secured by efficient means.

3 Calculation of EN

3.1 Basic Equation

The basic Equipment Number (EN) is to be obtained from the following equation for use in determining required equipment.

$$EN = k\Delta^{2/3} + mBh + nA$$

where

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|-----------------------|---|--|
| k | = | 1.0 (1.0, 1.012) |
| m | = | 2 (2, 0.186) |
| n | = | 0.1 (0.1, 0.00929) |
| Δ | = | molded displacement, in metric tons (long tons), to the summer load waterline |
| B | = | molded breadth, as defined in 3-1-1/5, in m (ft) |
| h | = | $a + h_1 + h_2 + h_3 + \dots$, as shown in 3-5-1/Figure 1. In the calculation of h , sheer, camber and trim may be neglected. |
| a | = | freeboard, in m (ft), from the summer load waterline amidships. |
| $h_1, h_2, h_3 \dots$ | = | height, in m (ft), on the center line of each tier of houses having a breadth greater than $B/4$ |

A = profile area, in m^2 (ft^2), of the hull, superstructure and houses above the summer load waterline which are within the Rule length. Superstructures or deck houses having a breadth at any point no greater than $0.25B$ may be excluded. Screens and bulwarks more than 1.5 m (4.9 ft) in height are to be regarded as parts of houses when calculating h and A .

3.3 Vessels of Unrestricted Service Having EN of 205 and Above

For vessels of unrestricted service having an EN of 205 or above in accordance with 3-5-1/3.1, the calculated EN is to be used in association with 3-5-1/Table 1. For vessels intended for towing service, see 3-5-1/3.5.

3.5 Vessels Having EN Less Than 205 or Vessels Intended for Towing Service

For vessels of unrestricted service having EN less than 205 calculated in accordance with 3-5-1/3.1 or for vessels intended for towing service, the EN for use with 3-5-1/Table 1 may be calculated in accordance with the following equation.

$$\text{Equipment Number} = k\Delta^{2/3} + m(Ba + \sum bh) + nA$$

Where k , m , n , Δ , B , a and A are as defined in 3-5-1/3.1 above and;

- b = breadth, in m (ft), of the widest superstructure or deckhouse on each tier.
- h = height, in m (ft), of each tier of deckhouse or superstructure having a width of $B/4$ or greater. In the calculation of h , sheer, camber and trim may be neglected. See 3-5-1/Figure 1.

FIGURE 1
Effective Heights of Deckhouses

