



TECHNICAL CIRCULAR No. 556 of 08th April 2019

To: All Surveyors/Auditors

Applicable to flag: All Flags

Tonnage Measurement of Small Ships

Reference: CONARINA Instructions

Tonnage Measurement of Small Ships

In pursuance of Section 2 (5) of the Danish Act on the Measurement of Ships, cf. consolidated Act no. 43 of 2 February 1993, and on the authority given in Order no. 694 of 17 August 1995, the following is laid down:]

Section 1. This Measurements shall apply to ships the keel of which is laid or which are at a similar stage of construction on 18 July 1982 or later, and the length of which, as defined in the International Convention on the Measurement of Ships, 1969, is less than 24 meters.

Subsection 2. This Order shall not apply to fishing vessels.

Section 8. Definitions.

The expressions used in sections 9-10 shall mean:

V = Displacement in cubic meters to the outside of the shell plating to a waterline parallel to the construction waterline which touches the lowest point of the deck's upper side in the side.

L1 = The length measured from the front of the shell plating's intersection with the deck's upper side at the stem to the after side of the shell plating's intersection with the deck at the stern frame.

On open vessels, the length shall be measured at the upper side of the gunwale.

B = Largest width on the outside of the shell plating at the deck's upper side or below.

D = Depth measured at half-length from the upper side of the deck in the side to the outside of the shell plating at the keel. On open vessels, the depth shall be measured from the upper side of the gunwale to the outside of the shell plating at the keel.

$K = 0.2 + 0.02 \log_{10} V$

(or as stipulated in the table below).

The coefficient K for intermediate values of V shall be reached through linear interpolation.

Section 9. Ships the length L1 of which is 15 meters or more shall be measured in accordance with the rules stipulated in the International Convention on the Measurement of Ships, 1969. The coefficient K for intermediate values of V shall be reached through linear interpolation.

Section 10. For ships the length L1 of which is below 15 meters, the gross tonnage (GT) shall be fixed as follows:

$GT = V \times K.$

*Customer Service Center
5201 Blue Lagoon Drive, 9th. Floor,
Miami, Fl., 33126
Tel: 1 (305) 716 4116,
Fax: 1 (305) 716 4117,
E-Mail:*

joel@conarinagroup.com

*Technical Head Office
7111 Dekadine Ct.
Spring, Tx., 77379
Tel: 1 (832) 451 0185,
1 (713) 204 6380*

E-Mail: vbozenovici@vcmaritime.com

Where V has not been measured and calculated, the size may be fixed according to the following formula:

$$V = L1 \times B \times D \times 0.65.$$

Subsection 2. When the gross tonnage has been fixed in accordance with subsection 1, a net tonnage (NT) shall be fixed as follows:

$$NT = GT \times 0.3.$$

Section 11. All measurements used to calculate the cubic content shall be given with the closest centimeter. Cubic content shall be calculated in cubic meters with 2 decimals. On tonnage certificates, tonnage figures shall be given with 1 decimal.

V	K
10	0.2200
20	0.2260
30	0.2295
40	0.2320
50	0.2340
60	0.2356
70	0.2369
80	0.2381
90	0.2391
100	0.2400
200	0.2460
300	0.2495
400	0.2520
500	0.2540

*Customer Service Center
5201 Blue Lagoon Drive, 9TH. Floor,
Miami, Fl., 33126
Tel: 1 (305) 716 4116,
Fax: 1 (305) 716 4117,
E-Mail:*

joel@conarinagroup.com

*Technical Head Office
7111 Dekadine Ct.
Spring, Tx., 77379
Tel: 1 (832) 451 0185,
1 (713) 204 6380*

E-Mail: vbozenovici@vcmaritime.com

REFERENCES:

- The Danish Maritime Authority, courtesy

- ATTACHMENTS: No

Kindest Regards,
Val Bozenovici
Naval Architect – Conarina Technical Director

*Customer Service Center
5201 Blue Lagoon Drive, 9TH. Floor,
Miami, Fl., 33126
Tel: 1 (305) 716 4116,
Fax: 1 (305) 716 4117,
E-Mail:*

joel@conarinagroup.com

*Technical Head Office
7111 Dekadine Ct.
Spring, Tx., 77379
Tel: 1 (832) 451 0185,
1 (713) 204 6380*

E-Mail: vbozenovici@vcmaritime.com