



# RUSSIAN MARITIME REGISTER OF SHIPPING

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**CIRCULAR LETTER**

**No. 382-08-1688c**

dated 25.01.2022

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Re:

amendments to the Collection of the Rules for Containers, 2021, ND 2-090201-012-E

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Item(s) of supervision:

containers, materials and products for containers

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Entry-into-force date:

**01.03.2022**

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~~Cancels / amends / adds Circular Letter No.~~

~~dated~~

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Number of pages: 1 + 3

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Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Part VII "Offshore Containers" of Rules for the Manufacture of Containers

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Director General

Konstantin G. Palnikov

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Text of CL:

We hereby inform that Rules for the Manufacture of Containers shall be amended as specified in the Appendices to the Circular Letter.

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It is necessary to do the following:

1. Bring the content of the Circular Letter to the notice of the RS surveyors, interested organizations and persons in the area of the RS Branch Offices' activity.
  2. Apply the provisions of the Circular Letter in the RS practical activity from the entry-into-force date of amendments.
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List of the amended and/or introduced paras/chapters/sections:

Rules for the Manufacture of Containers:

Part VII: para 3.1.9

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"Thesis" System No. 22-10822

**Information on amendments introduced by the Circular Letter  
(for inclusion in the Revision History to the RS Publication)**

Nos.	Amended paras/chapters/ sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
1	Rules for the Manufacture of Containers, Part VII, para 3.1.9	Requirements for calculation of fork lift pockets have been specified	382-08-1688c of 25.01.2022	01.03.2022

**COLLECTION OF THE RULES FOR CONTAINERS, 2021,**

**ND 2-090201-012-E**

**RULES FOR THE MANUFACTURE OF CONTAINERS**

**PART VII. OFFSHORE CONTAINERS**

**3 STRUCTURAL STRENGTH**

**Para 3.1.9** is replaced by the following text:

**"3.1.9** Where fork pockets are provided in the container structure, the bottom side rails shall be additionally calculated to bear shear stress occurring in dangerous vertical areas above and below the fork pockets.

When lifted from pad eyes, the shear stress shall be calculated according to the formula

$$\tau = \frac{F_p}{A_1}, \quad (3.1.9-1)$$

where  $F_p = (2,5 \cdot R \cdot g) / n$  — shear force appeared in one longitudinal beam when lifted from four pad eyes, in N;

$n$  — number of fork pockets.

$A_1$  — vertical area above and below the fork pockets, in mm<sup>2</sup> (refer to Fig. 3.1.9-1).

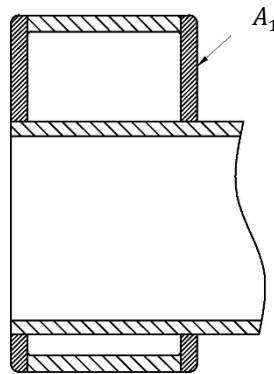


Fig. 3.1.9-1

When lifted from fork pockets, the shear stress shall be calculated according to the formula

$$\tau = \frac{F_f}{A_2}, \quad (3.1.9-2)$$

where  $F_f$  — shear force appeared when lifted from fork pockets, in N;

for loaded container  $F_f = (1,6 \cdot (R + S) \cdot g) / n$ ;

for empty container  $F_f = (0,625 \cdot (R + S) \cdot g) / n$ ;

where  $S$  — the lifting set mass;

$n$  — number of fork pockets.

$A_2$  — vertical area above fork pockets, in mm<sup>2</sup> (refer to Fig. 3.1.9-2).

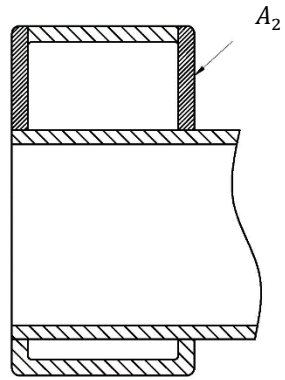


Fig. 3.1.9-2

Permissible shear stress for calculations of bottom side rail with fork pockets shall be determined by the formula

$$\tau_e = 0,58 \cdot 0,85 \cdot R_e \quad (3.1.9-3)$$

where  $R_e$  — yield stress of the pad eye, in MPa."