CIRCULAR LETTER  No. 382-08-1688c  dated 25.01.2022

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

Item(s) of supervision:
containers, materials and products for containers

Entry-into-force date:
01.03.2022

Cancels / amends / adds Circular Letter No.

| Number of pages: | 1 + 3 |

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<th>Director General</th>
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<tr>
<td>Konstantin G. Palnikov</td>
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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.

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.

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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<tr>
<td>&quot;Thesis&quot; System No. 22-10822</td>
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Information on amendments introduced by the Circular Letter
(for inclusion in the Revision History to the RS Publication)

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<th>Nos.</th>
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<td>1</td>
<td>Rules for the Manufacture of Containers, Part VII, para 3.1.9</td>
<td>Requirements for calculation of fork lift pockets have been specified</td>
<td>382-08-1688c of 25.01.2022</td>
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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 \( F_p = \frac{(2.5 \cdot R \cdot g)}{n} \) — 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 \( \text{mm}^2 \) (refer to Fig. 3.1.9-1).

![Fig. 3.1.9-1](image)

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 \( F_f = \frac{(1.6 \cdot (R + S) \cdot g)}{n} \);

for empty container \( F_f = \frac{(0.625 \cdot (R + S) \cdot g)}{n} \);

where \( S \) — the lifting set mass;

\( n \) — number of fork pockets.

\( A_2 \) — vertical area above fork pockets, in \( \text{mm}^2 \) (refer to Fig. 3.1.9-2).
Permissible shear stress for calculations of bottom side rail with fork pockets shall be determined by the formula

$$\tau_e = 0.58 \cdot 0.85 \cdot R_e,$$

(3.1.9-3)

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