RESOLUTION MSC.355(92)
(Adopted on 21 June 2013)
AMENDMENTS TO THE INTERNATIONAL CONVENTION
FOR SAFE CONTAINERS (CSC), 1972
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AMENDMENTS TO THE INTERNATIONAL CONVENTION  
FOR SAFE CONTAINERS (CSC), 1972

THE MARITIME SAFETY COMMITTEE,

RECALLING Article 28(b) of the Convention on the International Maritime Organization concerning the functions of the Committee,

NOTING article X of the International Convention for Safe Containers, 1972 (hereinafter referred to as "the Convention"), concerning the special procedure for amending the annexes to the Convention,

HAVING CONSIDERED, at its ninety-second session, proposed amendments to the Convention in accordance with the procedure set forth in paragraphs 1 and 2 of article X of the Convention,

1. ADOPTS the amendments to the annexes of the Convention, the text of which is set out in the annex to the present resolution;

2. DETERMINES, in accordance with paragraph 3 of article X of the Convention, that the said amendments shall enter into force on 1 July 2014 unless, prior to 1 January 2014, five or more of the Contracting Parties notify the Secretary-General of their objection to the amendments;

3. REQUESTS the Secretary-General, in conformity with paragraph 2 of article X of the Convention, to communicate the certified copies of the present resolution and the text of the amendments contained in the annex to all Contracting Parties for their acceptance;

4. ALSO REQUESTS the Secretary-General to inform all Contracting Parties and Members of the Organization of any request and communication under article X of the Convention and of the date on which the amendments enter into force.
ANNEX

AMENDMENTS TO
THE INTERNATIONAL CONVENTION FOR SAFE CONTAINERS (CSC), 1972

ANNEX I
REGULATIONS FOR THE TESTING, INSPECTION, APPROVAL
AND MAINTENANCE OF CONTAINERS

Chapter I
Regulations common to all systems of approval

1 After the heading of chapter I, the following text is inserted:

"General Provisions

The following definitions shall be applied for the purpose of this annex:

The letter \( g \) means the standard acceleration of gravity; \( g \) equals 9.8 m/s\(^2\).

The word "load", when used to describe a physical quantity to which units may be
ascribed, signifies mass.

Maximum operating gross mass or Rating or \( R \) means the maximum allowable sum
of the mass of the container and its cargo. The letter \( R \) is expressed in units of
mass. Where the annexes are based on gravitational forces derived from this value,
that force, which is an inertial force, is indicated as \( Rg \).

Maximum permissible payload or \( P \) means the difference between maximum
operating gross mass or rating and tare. The letter \( P \) is expressed in units of mass.
Where the annexes are based on the gravitational forces derived from this value,
that force, which is an inertial force, is indicated as \( Pg \).

Tare means the mass of the empty container, including permanently affixed ancillary
equipment."

Regulation 1 – Safety Approval Plate

2 Subparagraph 1(b) is amended as follows:

"(b) On each container, all maximum operating gross mass markings shall be
consistent with the maximum operating gross mass information on the
Safety Approval Plate."

3 Subparagraph 2(a) is amended as follows:

"(a) The plate shall contain the following information in at least the English or
French language:

"CSC SAFETY APPROVAL"
Country of approval and approval reference
Date (month and year) of manufacture
Manufacturer's identification number of the container or, in the
case of existing containers for which that number is unknown,
the number allotted by the Administration
Chapter IV
Regulations for approval of existing containers
and new containers not approved at time of manufacture

Regulation 9 – Approval of existing containers

6 Subparagraphs 1(c) and 1(e) are amended as follows:

"(c) maximum operating gross mass capability;"

"(e) allowable stacking load for 1.8 g (kg and lbs); and"

Regulation 10 – Approval of new containers not approved at time of manufacture

7 Subparagraphs (c) and (e) are amended as follows:

"(c) maximum operating gross mass capability;"

"(e) allowable stacking load for 1.8 g (kg and lbs); and"

Appendix

8 The fourth, fifth and sixth lines of the model of the Safety Approval Plate reproduced
in the appendix are amended as follows:

"MAXIMUM OPERATING GROSS MASS ........ kg ........ lbs
ALLOWABLE STACKING LOAD FOR 1.8 g ........ kg ........ lbs
TRANSVERSE RACKING TEST FORCE ........ newtons"

9 Items 4 to 8 of the appendix are amended as follows:

"4 Maximum operating gross mass (kg and lbs).
5 Allowable stacking load for 1.8 g (kg and lbs).
6 Transverse racking test force (newtons)."
7 End-wall strength to be indicated on plate only if end-walls are designed to withstand a force of less or greater than 0.4 times the gravitational force by maximum permissible payload, i.e. 0.4Pg.

8 Side-wall strength to be indicated on plate only if the side-walls are designed to withstand a force of less or greater than 0.6 times the gravitational force by maximum permissible payload, i.e. 0.6Pg."

10 The existing paragraphs 10 and 11 are replaced as follows:

"10 One door off stacking strength to be indicated on plate only if the container is approved for one door off operation. The marking shall show: ALLOWABLE STACKING LOAD ONE DOOR OFF FOR 1.8 g (... kg ... lbs). This marking shall be displayed immediately near the stacking test value (see line 5).

11 One door off racking strength to be indicated on plate only if the container is approved for one door off operation. The marking shall show: TRANSVERSE RACKING TEST FORCE ONE DOOR OFF (... newtons). This marking shall be displayed immediately near the racking test value (see line 6)."

ANNEX II

STRUCTURAL SAFETY REQUIREMENTS AND TESTS

11 After the heading of annex II, the following text is inserted:

"General Provisions

The following definitions shall be applied for the purpose of this annex:

The letter $g$ means the standard acceleration of gravity; $g$ equals 9.8 m/s$^2$.

The word load, when used to describe a physical quantity to which units may be ascribed, signifies mass.

Maximum operating gross mass or Rating or $R$ means the maximum allowable sum of the mass of the container and its cargo. The letter R is expressed in units of mass. Where the annexes are based on gravitational forces derived from this value, that force, which is an inertial force, is indicated as $Rg$.

Maximum permissible payload or $P$ means the difference between maximum operating gross mass or rating and tare. The letter $P$ is expressed in units of mass. Where the annexes are based on the gravitational forces derived from this value, that force, which is an inertial force, is indicated as $Pg$.

Tare means the mass of the empty container, including permanently affixed ancillary equipment."
12 The first sentence of the Introduction to annex II (Structural safety requirements and tests) is amended as follows:

"In setting the requirements of this annex, it is implicit that, in all phases of the operation of containers, the forces as a result of motion, location, stacking and gravitational effect of the loaded container and external forces will not exceed the design strength of the container."

13 In section 1 (Lifting), subsection 1(A) (Lifting from corner fittings), the text concerning test loadings and applied forces is amended as follows:

"TEST LOAD AND APPLIED FORCES

Internal load:

A uniformly distributed load such that the sum of the mass of container and test load is equal to 2R. In the case of a tank container, when the test load of the internal load plus the tare is less than 2R, a supplementary load, distributed over the length of the tank, is to be added to the container.

Externally applied forces:

Such as to lift the sum of a mass of 2R in the manner prescribed (under the heading TEST PROCEDURES)."

14 In section 1 (Lifting), subsection 1(B) (Lifting by any other additional methods) is replaced with the following:

"TEST LOAD AND APPLIED FORCES

Internal load:

A uniformly distributed load such that the sum of the mass of container and test load is equal to 1.25R.

Externally applied forces:

Such as to lift the sum of a mass of 1.25R in the manner prescribed (under the heading TEST PROCEDURES).

(i) Lifting from fork-lift pockets:

The container shall be placed on bars which are in the same horizontal plane, one bar being centred within each fork-lift pocket which is used for lifting the loaded container. The bars shall be of the same width as the forks intended to be used in the handling, and shall project into the fork pocket 75% of the length of the fork pocket.

(ii) Lifting from grappler-arm positions:

The container shall be placed on pads in the same horizontal plane, one under each grappler-arm position. These pads shall be of the same sizes as the lifting area of the grappler arms intended to be used."
Externally applied forces:

Such as to lift the sum of a mass of 1.25R in the manner prescribed (under the heading TEST PROCEDURES).

iii) Other methods:

Where containers are designed to be lifted in the loaded condition by any method not mentioned in (A) or (B)(i) and (ii) they shall also be tested with the internal load and externally applied forces representative of the acceleration conditions appropriate to that method.”

15 Paragraphs 1 and 2 of section 2 (STACKING) are amended as follows:

“1 For conditions of international transport where the maximum vertical acceleration varies significantly from 1.8 g and when the container is reliably and effectively limited to such conditions of transport, the stacking load may be varied by the appropriate ratio of acceleration.

2 On successful completion of this test, the container may be rated for the allowable superimposed static stacking load, which should be indicated on the Safety Approval Plate against the heading ALLOWABLE STACKING LOAD FOR 1.8 g (kg and lbs).”

16 In section 2 (STACKING), the text concerning test loadings and applied forces is amended as follows:

“TEST LOAD AND APPLIED FORCES

Internal load:

A uniformly distributed load such that the sum of the mass of container and test load is equal to 1.8R. Tank containers may be tested in the tare condition.

Externally applied forces:

Such as to subject each of the four top corner fittings to a vertical downward force equal to 0.25 x 1.8 x the gravitational force of the allowable superimposed static stacking load.”
17 Section 3 (CONCENTRATED LOADS) is amended as follows:

"TEST LOAD AND APPLIED FORCES

TEST PROCEDURES

(a) On roof

Internal load: The externally applied forces shall be applied vertically downwards to the outer surface of the weakest area of the roof of the container.

None.

Externally applied forces:

A concentrated gravitational force of 300 kg (660 lbs) uniformly distributed over an area of 600 mm x 300 mm (24 in x 12 in).

(b) On floor

Internal load: The test should be made with the container resting on four level supports under its four bottom corners in such a manner that the base structure of the container is free to deflect.

Two concentrated loads each of 2,730 kg (6,000 lbs) and each added to the container floor within a contact area of 142 cm² (22 sq in).

Externally applied forces:

None.

A testing device loaded to a mass of 5,460 kg (12,000 lbs), that is, 2,730 kg (6,000 lbs) on each of two surfaces, having, when loaded, a total contact area of 284 cm² (44 sq in), that is, 142 cm² (22 sq in) on each surface, the surface width being 180 mm (7 in) spaced 760 mm (30 in) apart, centre to centre, should be manoeuvred over the entire floor area of the container.

"
Externally applied forces:

Such as to subject each side of the container to longitudinal compressive and tensile forces of magnitude Rg, that is, a combined force of 2Rg on the base of the container as a whole.

20 The first paragraph of section 6 (END-WALLS) is amended as follows:

"The end-walls should be capable of withstanding a force of not less than 0.4 times the force equal to gravitational force by maximum permissible payload. If, however, the end-walls are designed to withstand a force of less or greater than 0.4 times the gravitational force by maximum permissible payload, such a strength factor shall be indicated on the Safety Approval Plate in accordance with annex I, regulation 1."

21 In section 6 (END-WALLS), the text concerning test loadings and applied forces is amended as follows:

"TEST LOAD AND APPLIED FORCES

Internal load:

Such as to subject the inside of an end-wall to a uniformly distributed force of 0.4Pg or such other force for which the container may be designed.

Externally applied forces:

None."

22 The first paragraph of section 7 (SIDE-WALLS) is amended as follows:

"The side-walls should be capable of withstanding a force of not less than 0.6 times the force equal to the gravitational force by maximum permissible payload. If, however, the side-walls are designed to withstand a force of less or greater than 0.6 times the gravitational force by maximum permissible payload, such a strength factor shall be indicated on the Safety Approval Plate in accordance with annex I, regulation 1."

23 In section 7 (SIDE-WALLS), the text concerning test loadings and applied forces is amended as follows:

"TEST LOAD AND APPLIED FORCES

Internal load:

Such as to subject the inside of a side-wall to a uniformly distributed force of 0.6Pg or such other force for which the container may be designed.

Externally applied forces:  None."
The existing section 8 (ONE DOOR OFF OPERATION) is replaced with the following:

"8 ONE DOOR OFF OPERATION

8.1 Containers with one door removed have a significant reduction in their ability to withstand racking forces and, potentially, a reduction in stacking strength. The removal of a door on a container in operation is considered a modification of the container. Containers must be approved for one door off operation. Such approval shall be based on test results as set forth below.

8.2 On successful completion of the stacking test the container may be rated for the allowable superimposed stacking load, which shall be indicated on the Safety Approval Plate immediately below line 5: ALLOWABLE STACKING LOAD FOR 1.8 g (kg and lbs) ONE DOOR OFF.

8.3 On successful completion of the racking test the transverse racking test force shall be indicated on the Safety Approval Plate immediately below line 6: TRANSVERSE RACKING TEST FORCE ONE DOOR OFF (newtons).

TEST LOAD AND APPLIED FORCES TEST PROCEDURES

Stacking

Internal load:
A uniformly distributed load such that the sum of the mass of container and test load is equal to 1.8R.

Externally applied forces:
Such as to subject each of the four top corner fittings to a vertical downward force equal to 0.25 x 1.8 x the gravitational force of the allowable superimposed static stacking load.

Transverse racking

Internal load:
None.

Externally applied forces:
Such as to rack the end structures of the container sideways. The forces shall be equal to those for which the container was designed."
The existing section 4 is replaced with the following:

"4  Structurally sensitive components

4.1 The following components are structurally sensitive and should be examined for deficiencies in accordance with the following table:
<table>
<thead>
<tr>
<th>Structurally sensitive component</th>
<th>Serious deficiency requiring immediate out-of-service determination</th>
<th>Deficiency requiring advice to owner and restrictions for transport</th>
<th>Restrictions to be applied in case of deficiencies according to column (iii)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top rail</td>
<td>Local deformation to the rail in excess of 60 mm or separation or cracks or tears in the rail material in excess of 45 mm in length. (see Note 1)</td>
<td>Local deformation to the rail in excess of 40 mm or separation or cracks or tears in the rail material in excess of 10 mm in length. (see Note 1)</td>
<td>Empty container Sea transport: No restriction Other modes: No restriction Loaded container Sea transport: Bottom lifting not allowed, Top lifting allowed only by use of spreaders without chains Other modes: Bottom lifting not allowed, Top lifting allowed only by use of spreaders without chains</td>
</tr>
<tr>
<td>Bottom rail</td>
<td>Local deformation perpendicular to the rail in excess of 100 mm or separation cracks or tears in the rail's material in excess of 75 mm in length (see Note 2)</td>
<td>Local deformation perpendicular to the rail in excess of 60 mm or separation cracks or tears in the rail's material of the upper flange in excess of 25 mm in length; or of web in any length (see Note 2)</td>
<td>Empty container Sea transport: No restriction Other modes: No restriction Loaded container Sea transport: Lifting at (any) corner fitting not allowed Other modes: Lifting at (any) corner fitting not allowed</td>
</tr>
<tr>
<td>Header</td>
<td>Local deformation to the header in excess of 80 mm or cracks or tears in excess of 80 mm in length</td>
<td>Local deformation to the header in excess of 50 mm or cracks or tears in excess of 10 mm in length</td>
<td>Container shall not be overstowed No restriction Container shall not be overstowed No restriction</td>
</tr>
<tr>
<td>Sill</td>
<td>Local deformation to the sill in excess of 100 mm or cracks or tears in excess of 100 mm in length.</td>
<td>Local deformation to the sill in excess of 60 mm or cracks or tears in excess of 10 mm in length</td>
<td>Container shall not be overstowed No restrictions Container shall not be overstowed No restrictions</td>
</tr>
</tbody>
</table>

**Note 1:** On some designs of tank containers the top rail is not a structurally significant component.

**Note 2:** The rails material does not include the rail's bottom flange.
<table>
<thead>
<tr>
<th>(i)</th>
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<tr>
<td>Structurally</td>
<td>Serious deficiency requiring immediate</td>
<td>Deficiency requiring advice to owner and restrictions for transport</td>
<td>Restrictions to be applied in case of</td>
<td>Empty container</td>
<td>Sea transport</td>
<td>Loaded container</td>
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<td>out-of-service determination</td>
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<td>deficiencies according to column (iii)</td>
<td>Sea transport</td>
<td>Other modes</td>
<td>Loaded container</td>
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<td>component</td>
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<td>Sea transport</td>
<td>Other modes</td>
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<tr>
<td>Corner posts</td>
<td>Local deformation to the post in excess of 50</td>
<td>Local deformation to the post in excess of 30 mm or cracks or tears of</td>
<td>Container shall not be overstowed</td>
<td>No restrictions</td>
<td>Container shall not be overstowed</td>
<td>No restrictions</td>
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<td>mm or cracks or tears in excess of 50 mm in length</td>
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<tr>
<td>Corner and</td>
<td>Missing corner fittings, any through cracks or</td>
<td>Weld separation of adjoining components of 50 mm or less</td>
<td>Container shall not be lifted on board a</td>
<td>Container shall be lifted and handled with special</td>
<td>Container shall not be loaded on board a</td>
<td>Container shall be lifted and handled with special care</td>
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<td>intermediate</td>
<td>tears in the fitting, any deformation of the</td>
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<td>ship if the damaged fittings prevent</td>
<td>care</td>
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<tr>
<td>fittings</td>
<td>fitting that precludes full engagement of the</td>
<td></td>
<td>safe lifting or securing</td>
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<td></td>
<td>securing or lifting fittings (see Note 3) or any</td>
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<td>weld separation of adjoining components in excess</td>
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<td></td>
<td>Any reduction in the thickness of the plate</td>
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<td>Container shall be lifted and handled</td>
<td>Container shall not be used</td>
<td>Container shall be lifted and handled with</td>
<td>Container shall be lifted and handled with special care</td>
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<td>containing the top aperture that makes it less</td>
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<td>with special care</td>
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<td>special care</td>
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<td>Any reduction in the thickness of the plate</td>
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<td>Container shall not be used with fully</td>
<td>Container shall be lifted and handled with special care</td>
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<td>containing the top aperture that makes it less</td>
<td></td>
<td>with special care</td>
<td></td>
<td>automatic twistlocks</td>
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<td>than 26 mm thick</td>
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<td>Any reduction in the thickness of the plate</td>
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<td>Container shall not be overstowed</td>
<td>Container shall be lifted and handled with</td>
<td>Container shall not be used with fully</td>
<td>Container shall be lifted and handled with special care</td>
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<td>containing the top aperture that makes it less</td>
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<td>when fully automatic twistlocks are to</td>
<td>special care</td>
<td>automatic twistlocks</td>
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<td>than 25 mm thick</td>
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<td>Any reduction in the thickness of the plate</td>
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<td>Container shall be lifted and handled with</td>
<td>Container shall not be used with fully</td>
<td>Container shall be lifted and handled with special care</td>
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<td>containing the top aperture that makes it less</td>
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<td>special care</td>
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<td></td>
<td>Any reduction in the thickness of the plate</td>
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<td>Container shall be lifted and handled with</td>
<td>Container shall not be used with fully</td>
<td>Container shall be lifted and handled with special care</td>
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<td>containing the top aperture that makes it less</td>
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<td>when fully automatic twistlocks are to</td>
<td>special care</td>
<td>automatic twistlocks</td>
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<td></td>
<td>than 127 mm or any reduction in thickness of the</td>
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<td>be used</td>
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<td></td>
<td>plate containing the top aperture that makes it</td>
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<td>less than 23 mm thick</td>
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</tbody>
</table>
| Note 3              | The full engagement of securing or lifting fittings is precluded if there is any deformation of the fitting beyond 5 mm from its original plane, any aperture width greater than 66 mm, any aperture length greater than 127 mm or any reduction in thickness of the plate containing the top aperture that makes it less than 23 mm thick.
<table>
<thead>
<tr>
<th>(i)</th>
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<tr>
<td>Structurally sensitive</td>
<td>Serious deficiency requiring immediate</td>
<td>Deficiency requiring advice to owner and</td>
<td>Restrictions to be applied in case of deficiencies according to column (iii)</td>
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<tr>
<td>component</td>
<td>out-of-service determination</td>
<td>restrictions for transport</td>
<td>Empty container</td>
<td>Loaded container</td>
<td>Sea transport</td>
<td>Other modes</td>
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<td></td>
<td></td>
<td></td>
<td>Sea transport</td>
<td></td>
<td>Other modes</td>
<td>Other modes</td>
</tr>
<tr>
<td>Understructure</td>
<td>Two or more adjacent cross members</td>
<td>One or two cross members missing or detached</td>
<td>No restrictions</td>
<td>No restrictions</td>
<td>No restrictions</td>
<td>No restrictions</td>
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<tr>
<td></td>
<td>missing or detached from the bottom</td>
<td>(see Note 4)</td>
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<td></td>
<td>rails. 20% or more of the total number</td>
<td>More than two cross members missing or</td>
<td>No restrictions</td>
<td>No restrictions</td>
<td>Maximum payload shall</td>
<td>Maximum payload shall</td>
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<td></td>
<td>of cross members missing or detached</td>
<td>detached (see Notes 4 and 5)</td>
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<td></td>
<td>be restricted to 0.5 x P</td>
<td>be restricted to 0.5 x P</td>
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<td>(see Note 4)</td>
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</table>

Note 4: If onward transport is permitted, it is essential that detached cross members are precluded from falling free.

Note 5: Careful cargo discharge is required as forklift capability of the understructure might be limited.

<table>
<thead>
<tr>
<th>(i)</th>
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<th>(iii)</th>
<th>(iv)</th>
<th>(v)</th>
<th>(vi)</th>
<th>(vii)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locking rods</td>
<td>One or more inner locking rods are non-</td>
<td>One or more outer locking rods are non-</td>
<td>Container shall not be</td>
<td>Container shall not be</td>
<td>Cargo shall be secured</td>
<td>Cargo shall be secured</td>
</tr>
<tr>
<td></td>
<td>functional (see Note 6)</td>
<td>functional (see Note 6)</td>
<td>overstowed</td>
<td>overstowed</td>
<td>against the container</td>
<td>against the container</td>
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<td>frame and the door</td>
<td>frame and the door</td>
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Note 6: Some containers are designed and approved (and so recorded on the CSC Plate) to operate with one door open or removed.
RESOLUTION MSC.355(92)  
(Adopted on 21 June 2013)  
AMENDMENTS TO THE INTERNATIONAL CONVENTION  
FOR SAFE CONTAINERS (CSC), 1972