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International

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Series 1 freight containers — Corner and intermediate fittings — Specifications

Conteneurs de la série 1 — Pièces de coin et pièces de fixation intermédiaires — Spécifications

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This document was prepared by Technical Committee ISO/TC 104, *Freight containers*, Subcommittee SC 1, *General purpose containers*.

This sixth edition cancels and replaces the fifth edition (ISO 1161:2016), which has been technically revised.

The main changes are as follows:

— removed all imperial measures;

— added 4.2.1;

— revised design load values for top, bottom and intermediate fittings in 6.1.1 to 6.1.7 in accordance with the updated Gross Mass R = 36 000 kg;

— renamed Clause 9;

— rewrote wording of 9.1 in accordance with new title of Clause 9;

— revised test values in 9.3.1 to 9.3.12 in accordance with revised design load from 6.1.1 to 6.1.7;

— rewrote drawings of top, bottom and intermediate fittings with the dimensions in Figures 2, 3 and 4;

— revised values in drawings in Annex A, “Testing methodology” according to updated values in 9.3.1 to 9.3.12.

— added a new Annex C.

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This document on corner fittings represents the collaborative efforts of technical and operational experts from all sectors of the transportation industry. Figure 1 shows the fittings for the top and bottom corners of series 1 freight containers, which provide compatibility in interchange between transportation modes. Care has been taken to limit consideration only to the details of fittings which are vital to this function.

This document specifies the size and configuration of corner and intermediate fitting apertures. The faces of the corner and intermediate fittings having apertures for the engagement of handling and securing devices have specified thickness and tolerances as shown in Figures 2 to 4. The minimum thickness of the blank walls is specified, even though they are not involved in the engagement of the handling and securing devices; they can be thicker than the minimum provided that their inner surfaces do not protrude into the corner fitting cavity reserved for the engaging device.

The purpose of this document is to define some details of design vital to container interchange in automatic, semi-automatic and conventional systems.

The strength and testing requirements specified in this document do not take any account of the stresses, which can result from the practice of end-to-end coupling of containers.

NOTE The requirements of this document do not preclude the provision of additional facilities for lifting either from the top or at the base of the freight container.

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