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NSAI Standards

Standard Recommendation
S.R. CEN/TS 13853:2003

Swap bodies for combined transport – Stackable swap bodies type C 745-S16 – Dimensions, design requirements and testing

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Swap bodies for combined transport – Stackable swap bodies type C 745-S16 – Dimensions, design requirements and testing

Caisses mobiles pour transport combiné – Caisse gerbable de type C 745-S16 – Dimensions, exigences de conception et essais

Wechselbehälter für den kombinierten Verkehr – Stapelbare Wechselbehälter Typ C 745-S16 – Abmessungen, Konstruktionsanforderungen und Prüfung

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Foreword

This document (CEN/TS 13853:2003) has been prepared by Technical Committee CEN/TC 119 “Swap bodies for Combined Goods Transport”, the secretariat of which is held by DIN.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

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Introduction

For a couple of years already an increased demand for a new type of containers with pallet-wide load areas has been registered on the European transport market, capable of being lifted more efficiently, faster and more safely by upper corner castings and able to be stacked for the purpose of storage at the terminal and during the transport with short sea and inland waterway ships.

This Technical Specification shall ensure the development of such new containers concerning their compatibility with each other and to their compatibility with the existing European system of transport and handling equipment.

Furthermore, this Technical Specification shall define the requested minimum of safety and reliability during the operation of these new containers.

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1 Scope

This Technical Specification specifies dimensions, design requirements and testing requirements of stackable swap bodies type C 745-S16 which are suitable for domestic and international multimodal conveyance by road, rail, short sea and coastal sea transport (including Ro/Ro or ferry transport) and inland waterways.

2 Normative references

This Technical Specification incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this Technical Specification only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 283:1991, *Swap bodies – Testing*

EN 284:1992, *Swap bodies – Swap bodies of class C – Dimensions and general requirements*

EN 12640*, Securing of cargo on road vehicles – Lashing points on commercial vehicles for goods transportation – Minimum requirements and testing*

EN 13044, *Swap bodies – Coding identification and marking*

ISO 668:1995, *Series 1 freight containers – Classification, dimensions and ratings*

ISO 1161:1984, *Series 1 freight containers – Corner fittings – Specification*

ISO 1496-1:1990, *Series 1 freight containers – Specification and testing – Part 1: General cargo containers for general purpose*

3 General

3.1 Characteristics of stackable swap bodies

Stackable swap bodies combine basic dimensional and design features of non-stackable swap bodies in compliance with EN 284 and requirements and testing criteria of ISO containers in compliance with ISO 1496-1. In addition to EN 284, stackable swap bodies shall be equipped with top corner fittings to permit top lift handling.

3.2 Type description

Type C 745-S16 is a stackable swap body designed for 16 t rating having the following features:

- a swap body specific base structure such as steering tunnel and supporting legs,
- ISO series 1 freight container specific structural strength, in particular full ISO stacking abilities, to permit conveyance by short sea and coastal sea.

4 Dimensions and Ratings

The external dimensions of the stackable swap body C 745-S16 shall be in compliance with table 1 and the following figures. The rating *R* of a stackable swap body is its maximum gross mass; i.e., the maximum value for operation and the minimum value for design.

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