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TRANSPORTATION LOADS - MEASUREMENT

AND EVALUATION OF DYNAMIC

MECHANICAL LOADS - PART 2: DATA

ACQUISITION AND GENERAL

REQUIREMENTS FOR MEASURING

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English Version

Transportation loads - Measurement and evaluation of dynamic mechanical loads - Part 2: Data acquisition and general requirements for measuring equipment

Charges de transport - Mesurage et analyse des charges mécaniques dynamiques - Partie 2 : Acquisition des données et exigences générales pour l'équipement de mesure Transportbelastungen - Messen und Auswerten von mechanisch-dynamischen Belastungen - Teil 2: Datenerfassung und allgemeine Anforderungen an Messeinrichtungen

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Foreword

This document (EN 15433-2:2007) has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.

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Introduction

This standard was originally prepared by working group NAVp-1.4, Requirements and Testing, of the German Standardization Institute (DIN). It is part of a complete normative concept to acquire and describe the loads acting on goods and influencing them during transport, handling and storage.

This standard becomes significant when related to the realisation of the European Directive on Packaging and Packaging Waste (Directive 94/62 EC, 20 December 1994). This directive specifies requirements on the avoidance or reduction of packaging waste, and requires that the amount of packaging material is adjusted to the expected transportation load, in order to protect the transportation item adequately. However, this presumes some knowledge of the transportation loads occurring during shipment.

At present, basic standards, based on scientifically confirmed values, which can adequately describe and characterize the magnitudes of transportation loads, especially in the domain of dynamic mechanical loads do not exist nationally or internationally. Reasons for this are mainly the absence of published data, insufficient description of the measurements or restrictions on the dissemination of this information.

This standard will enable the measurement and evaluation of dynamic mechanical transportation loads, thus enabling the achievement of standardized and adequately documented load values.

This series of standards consists of the following parts:

- Part 1: General requirements
- Part 2: Data acquisition and general requirements for measuring equipment
- Part 3: Data validity check and data editing for evaluation
- Part 4: Data evaluation
- Part 5: Derivation of test specifications
- Part 6: Automatic recording systems for measuring randomly occurring shock during monitoring of transports.



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