

ICS 55.020

English version

## Packaging - Reuse - Methods for determining the number of trips or rotations

Emballage - Réutilisation - Méthode d'évaluation de la performance d'un système de réutilisation

Verpackung - Wiederverwendung - Verfahren zur Einschätzung der Leistungsfähigkeit eines Wiederverwendungssystems

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## Foreword

This document (CEN/TR 14520:2005) has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

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

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## Introduction

The methods set out in this Technical Report are both capable of giving realistic results in the relevant circumstances. Experience over time with the results will indicate the levels of performance that are being achieved.

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## 1 Scope

This Technical Report gives methods of assessing the performance of a reuse system related to the proportion of reused packaging in use. This may be measured by:

- the number of rotations or;
- the reuse ratio.

The choice of method will vary according to the type of reuse system and information available.

## 2 Terms and definitions

For the purposes of this Technical Report, the following terms and definitions apply.

### 2.1 trip

transfer of packaging, from filling/loading to emptying/unloading. A trip may be part of a rotation

### 2.2 rotation

cycle undergone by reusable packaging from filling/loading to filling/loading. A rotation will always contain a trip

### 2.3 population

total number of a packaging type, empty or filled, in that whole reuse system

### 2.4 claiming company

packer/filler who is making a claim of 'reusable' for a type of packaging, in the circumstances of its intended use

### 2.5 reuse ratio

ratio, expressed as a percentage, of reused packaging to the throughput at the measurement point (see definition 2.7) over the calculation period (see definition 2.6)

### 2.6 calculation period

period over which the number of trips or reuse ratio is calculated. This should be of adequate duration to smooth out the effects of seasonal variation, product lifetime, packaging inputs and other factors which may affect the calculation

### 2.7 measurement point

point in the rotation loop at which the information for the calculation is gathered

NOTE Examples of some possible measurement points are given in clause 4.2.

### 2.8 newly manufactured packaging

newly purchased packaging entering the system for the first time to increase the population or replace all types of losses