



NSAI
Standards

Irish Standard
I.S. EN 14054:2003

Packaging - Paper and paperboard packaging - Design of cartons

I.S. EN 14054:2003

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 14054:2003 is the adopted Irish version of the European Document EN 14054:2003, Packaging - Paper and paperboard packaging - Design of cartons

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EUROPEAN STANDARD

EN 14054

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2003

ICS 55.160

English version

Packaging - Paper and paperboard packaging - Design of cartons

Emballage - Emballage papier et carton - Conception des
cartons d'emballage

Packmittel - Verpackungen aus Papier und Pappe -
Grundbauarten von Schachteln

This European Standard was approved by CEN on 25 April 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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EN 14054:2003 (E)

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Foreword

This document (EN 14054:2003) 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of an identical text or by endorsement, at the latest by December 2003, and conflicting national standards shall be withdrawn at the latest by December 2003.

This document is derived from work carried out by the European Carton Makers Association (ECMA) which is the federation for the national carton makers associations of Europe. ECMA has produced and refined a coded system for describing carton types and agreement has been reached with CEN that this code may be described in a European Standard.

The ECMA Code can be considered as a standardized system to substitute long and complicated verbal descriptions of cartons by simple symbols internationally understood by all regardless of language and other differences.

[Annexes A and B are informative.](#)

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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.

EN 14054:2003 (E)

Introduction

Efficient packaging is of great importance for the distribution and the protection of goods. Insufficient or inappropriate packaging may lead to damage or wastage of the contents of the pack.

If made from suitable material and in an appropriate shape, cartons can provide protection for their contents, are easy to handle and prior to use can be transported and stored in the minimum of space. They can be used as a single package or as a multiple pack.

The purpose of this European Standard is to describe construction elements for cartons by a simple code and provide supporting information on functionality (see annex A).

1 Scope

This European Standard describes basic types and constructions of cartons in carton board. Styles of corrugated and solid board packaging are not covered by this EN standard.

NOTE Cartons are usually delivered by the carton manufacturer, to the user, in flat folded form (preglued) or as a flat blank.

2 Normative references

This European Standard 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 European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN ISO 2233, *Packaging – Complete, filled transport packages and unit loads - Conditioning for testing (ISO 2233:2000)*.

The ECMA Code of Folding Carton Styles

Published by:

European Carton Makers Association,
Laan copes van Cattenburch 79,
NL-2585 EW Den Haag,
The Netherlands.

3 Dimensions

3.1 Direction of measurement

The three directions of measurements shall be at right angles to one another and the dimensions denoted for an erected carton by the letters A, B and H.

- Length (A) - the longer side of the open or front fill end
(the dimension between the side [dust] flaps)
- Width (B) - the other side of the fill end
(the other, remaining dimension of the opening)
- Height (H) - height or depth, the 3rd dimension of the carton
(this is not a filling side)

NOTE The difference between the external and internal dimensions of the carton depends on the thickness of the board.

3.2 Taking of measurement

Dimensions shall be measured on the flat blank. Dimensions of cartons are defined from centre of crease line to centre of crease line.

Dimensions of carton board may vary with variation in moisture content of the material. Accurate measurements of dimensions shall therefore be performed under standard climatic conditions (Condition 50 % r.h./23 °C of EN ISO 2233).

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