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Irish Standard  
I.S. EN ISO 7263:2011

# Corrugating medium - Determination of the flat crush resistance after laboratory fluting (ISO 7263:2011)

## I.S. EN ISO 7263:2011

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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**NSAI**  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

**Sales:**  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

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English Version

## Corrugating medium - Determination of the flat crush resistance after laboratory fluting (ISO 7263:2011)

Papier cannelure pour carton ondulé - Détermination de la  
résistance à la compression à plat après cannelage en  
laboratoire (ISO 7263:2011)

Wellenrohpapier - Bestimmung des  
Flachstauchwiderstandes an labormäßig gewelltem  
Wellenpapier (ISO 7263:2011)

This European Standard was approved by CEN on 14 February 2011.

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Management Centre: Avenue Marnix 17, B-1000 Brussels

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## **Foreword**

This document (EN ISO 7263:2011) has been prepared by Technical Committee ISO/TC 6 "Paper, board and pulps" in collaboration with Technical Committee CEN/TC 172 "Pulp, paper and board" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by August 2011, and conflicting national standards shall be withdrawn at the latest by August 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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

### **Endorsement notice**

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I.S. EN ISO 7263:2011  
**INTERNATIONAL  
STANDARD**

**ISO  
7263**

Fourth edition  
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**Corrugating medium — Determination of  
the flat crush resistance after laboratory  
fluting**

*Papier cannelure pour carton ondulé — Détermination de la résistance  
à la compression à plat après cannelage en laboratoire*



Reference number  
ISO 7263:2011(E)

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Tel. + 41 22 749 01 11  
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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 7263 was prepared by Technical Committee ISO/TC 6, *Paper board and pulps*, Subcommittee SC 2, *Test methods and quality specifications for paper and board*.

This fourth edition cancels and replaces the third edition (ISO 7263:2008), of which it constitutes a minor revision. A misprint in 5.3.1 (8,55 mm) has been corrected and the calculation of the flat crush resistance index has been included in 10.2.

## Introduction

The flat crush resistance of laboratory-fluted corrugating medium is regarded as an important property because it is an indication of the potential flat crush resistance of corrugated fibreboard made from that medium. The corrugated medium is fluted by passing it between heated rollers. Two different test procedures are then widely used:

- a) the fluted corrugating medium is compressed immediately after fluting (i.e. 5 s to 8 s after fluting);
- b) the fluted corrugating medium is conditioned for 30 min to 35 min under standard laboratory test conditions before being compressed.

Procedure a) generally gives considerably higher results than those obtained with procedure b). The differences in results are claimed to be caused by

- the lower moisture content (and thus higher stiffness) of the unconditioned fluted corrugating medium, and/or
- the change in flute profile which occurs during the conditioning period.

Since considerable advantages are claimed for both procedures and both are widely used, this International Standard describes both procedures.

A method of determining the flat crush resistance of manufactured corrugated fibreboard is given in ISO 3035<sup>[1]</sup>.



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