

# INTERNATIONAL STANDARD

ISO  
3443-7

First edition  
1988-05-15



---

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION  
ORGANISATION INTERNATIONALE DE NORMALISATION  
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

---

## **Tolerances for building —**

### **Part 7:**

**General principles for approval criteria, control of  
conformity with dimensional tolerance specifications and  
statistical control — Method 2 (Statistical control method)**

*Tolérances pour le bâtiment — Partie 7: Principes généraux pour les critères d'acceptation, le  
contrôle de conformité aux spécifications de tolérance dimensionnelle et le contrôle statistique  
— Méthode 2 (Méthode de contrôle statistique)*

Reference number  
ISO 3443-7: 1988 (E)

## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 3443-7 was prepared by Technical Committee ISO/TC 59, *Building construction*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

## Contents

|                                                                               | Page |
|-------------------------------------------------------------------------------|------|
| 0 Introduction .....                                                          | 1    |
| 1 Scope .....                                                                 | 1    |
| 2 Field of application .....                                                  | 1    |
| 3 References .....                                                            | 1    |
| 4 Definitions .....                                                           | 2    |
| 5 Tolerances and specified requirements .....                                 | 2    |
| 6 Inspector responsible .....                                                 | 3    |
| 7 Approval criteria for items (units) .....                                   | 3    |
| 8 Procedures for defective items .....                                        | 4    |
| 9 Approval criteria for lots .....                                            | 5    |
| 10 Procedures for rejected lots .....                                         | 7    |
| 11 Approval by the quality control of the supplier .....                      | 8    |
| 12 Agreement on inspection .....                                              | 8    |
| 13 Method of measurement .....                                                | 9    |
| 14 Techniques of statistical inspection .....                                 | 9    |
| <b>Annexes</b>                                                                |      |
| A Tables for statistical inspection .....                                     | 12   |
| B Definition of statistical terms .....                                       | 14   |
| C Hierarchic table of contents .....                                          | 15   |
| D Diagrams for procedures for specifying key parameters and for control ..... | 17   |

This document is a preview generated by EVS

This page intentionally left blank

# Tolerances for building —

## Part 7:

## General principles for approval criteria, control of conformity with dimensional tolerance specifications and statistical control Method 2 (Statistical control method)

### 0 Introduction

The procedure and rules established in this part of ISO 3443 are not compulsory for any parties to an agreement. If the parties agree to follow this part of ISO 3443, they should therefore so indicate in the agreement on inspection.

This part of ISO 3443 forms one of a series of International Standards concerning tolerances for building and building components.

The principles for approval and the statistical methods recommended are, with only minor modifications, based on International Standards for statistical inspection.

Alternative methods of inspection (e.g. based on Bayesian statistics) are permitted when the statistical risks involved in the actual sampling plans are known by the parties.

A shorter and more generalized method, to be used when establishing approval criteria and controlling accuracy, and not applying specific statistical principles, is issued as method 1 in ISO 3443-6.<sup>1)</sup>

### 1 Scope

This part of ISO 3443 specifies an operational procedure which can be used to determine acceptance of dimensional accuracy of components, and operations in the building industry to be used when the parties involved agree to refer to this part of ISO 3443. The procedure relates to the recognition of specified requirements, the criteria for acceptance and consequences of rejection, recommendations on the agreements and methods of measurement, and the planning and execution of inspection by statistical methods.

### 2 Field of application

This part of ISO 3443 applies to all types of forms, dimensions and positions within the building industry.

### 3 References

ISO 2859, *Sampling procedures and tables for inspection by attributes*.

ISO 2859/Add. 1, *General information on sampling inspection, and guide to the use of ISO 2859 tables*.

ISO 2859-2, *Sampling procedures for inspection by attributes — Part 2: Sampling plans indexed by limiting quality (LQ) for isolated lot inspection*.

ISO 3443-6, *Tolerances for building — Part 6: General principles for approval criteria, control of conformity with dimensional tolerance specifications and statistical control — Method 1*.

ISO 3534, *Statistics — Vocabulary and symbols*.

ISO 3951, *Sampling procedures and charts for inspection by variables for percent defective*.

ISO 4464, *Tolerances for building — Relationship between the different types of deviations and tolerances used for specification*.

ISO 6284, *Tolerances for building — Indication of tolerances on building and civil engineering drawings*.

ISO 7077, *Measuring methods for building — General principles and procedures for the verification of dimensional compliance*.

1) Internationally, users are free to decide if they will use method 1 (the short method) or method 2 (the longer method).