# INTERNATIONAL STANDARD



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# Technical drawings — Tolerancing of orientation and location — Projected tolerance zone

Dessins techniques — Tolérancement d'orientation et de position — Zone de tolérance projetée



Reference number ISO 10578:1992(E)

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# Foreword

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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.

International Standard ISO 10578 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Sub-Committee SC 5, *Dimensioning and tolerancing*.

Annex A of this International Standard is for information only.

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International Organization for Standardization

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# Introduction

A projected tolerance zone is used in conjunction with geometrical tolerancing to control or limit an extreme variation in the perpendicularity of threaded (or non-threaded) features, interference fit holes or similar features.

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# **Technical drawings** — **Tolerancing of orientation and location** — **Projected tolerance zone**

#### 1 Scope

This International Standard defines the method of tolerancing by indication of a projected tolerance zone and specifies the method of indication.

#### 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1101:1983, Technical drawings — Geometrical tolerancing — Tolerances of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings.

## 3 **Definitions**

For the purposes of this International Standard, the definitions given in ISO 1101 apply.

NOTE 1 The definition of the "minimum external projection of the feature" is under consideration and will be added at a later date to this International Standard.

### 4 Projected tolerance zone

The projected tolerance zone applies to the minimum external projection of the feature which is

- indicated on the drawing by the symbol 
   followed by the projected dimension,
- represented by a chain thin double-dashed line in the corresponding drawing view, and
- indicated in the tolerance frame by the symbol
   P placed after the tolerance of the toleranced feature.

See figure 1.