
**Test method of doorset opening
performance in diagonal deformation —
Seismic aspects**

*Méthode d'essai de la performance d'ouverture des blocs-portes en
déformation diagonale — Considérations sismiques*

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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 15822 was prepared by Technical Committee ISO/TC 162, *Doors and windows*.

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Introduction

This International Standard determines the extent to which the opening facility is ensured and retained for doorsets used for emergency passage in order that they be safe in case of an earthquake.

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Test method of doorset opening performance in diagonal deformation — Seismic aspects

1 Scope

This International Standard specifies the test method for evaluating the opening function of single-leaf doorset under in-plane diagonal deformation by in-plane static load.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1804, *Doors — Terminology*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1804 and the following apply.

3.1

in-plane displacement

ratio of difference in amounts of horizontal movements of upper and lower ends to the distance between the vertical measuring points

NOTE In-plane displacement is designated in units of radians.

3.2

opening force

force applied to open the door leaf

3.3

unlocking torque value

force, in torque value, applied to unlock the doorset

4 Principle

The doorset is forced to deform by a static load being gradually applied, and the force necessary to open and unlock the door under such diagonal deformation is measured.

5 Test specimen

The test specimen shall be constructed and installed in operating conditions equivalent to normal and practical use.

If the test specimen contains a glazed area, it shall comply with the requirements of the manufacturer. In case no glass thickness has been specified, the test shall be carried out with the minimum glass thickness specified in the specification.