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Glass in building — Forced-entry security glazing —

Part 3: Test and classification by manual attack

*Verre dans la construction — Vitrages de sécurité contre infractions —
Partie 3: Essai et classification par assaut manuel*



Reference number
ISO 16936-3:2005(E)

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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.

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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 16936-3 was prepared by Technical Committee ISO/TC 160, *Glass in building*, Subcommittee SC 2, *Use considerations*.

ISO 16936 consists of the following parts, under the general title *Glass in building — Forced-entry security glazing*:

- *Part 1: Test and classification by repetitive ball drop*
- *Part 2: Test and classification by repetitive impact of a hammer and axe at room temperature*
- *Part 3: Test and classification by manual attack*
- *Part 4: Test and classification by pendulum impact under thermally and fire stressed conditions*

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Introduction

ISO 16936 assesses security-glazing products that are more familiarly known as “anti-vandal”, “anti-bandit”, and detention glazing products. Because there is no single test that will cover such a wide range of resistance to attack, four separate test methods are provided to assess the forced-entry resistant properties of security glazing. It is not intended that any particular test method be associated with the terms “anti-vandal” or “anti-bandit”, since these terms can be only loosely defined and there is considerable overlap in their definition.

The test method specified in this part of ISO 16936 is a physical test using personnel and equipment and does not reproduce the conditions of real human attack. The test relies heavily on the competence and experience of personnel performing the test. The classification determined may not necessarily be reproducible and is therefore considered as comparative of various glazing constructions.

The selection of tools to be used for the simulated attack is based on an attack which can be carried out without regard to noise, smoke, vibration, etc. generated during the attack.