

Building hardware — Hardware for sliding doors and folding doors — Requirements and test methods

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British Standard

ICS 91.190

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 10, an inside back cover and a back cover.

Amendments issued since publication

Amd. No.	Date	Text affected

This British Standard, having been prepared under the direction of the Sector Committee for Building and Civil Engineering, was published under the authority of the Standards Committee and comes into effect on 15 December 1998

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ISBN 0 580 30592 9

ICS 91.190

Descriptors: doors, sliding, hardware, definitions, classifications, performance, evaluation, tests, performance tests, fatigue tests, salt spray tests, marking

English version

Building hardware — Hardware for sliding doors and folding doors — Requirements and test methods

Quincaillerie pour le bâtiment — Quincaillerie pour portes coulissantes et portes pliantes — Prescriptions et méthodes d'essai

Schlösser und Baubeschläge — Beschläge für Schiebetüren und Falttüren — Anforderungen und Prüfverfahren

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CEN

European Committee for Standardization
Comité Européen de Normalisation
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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 33, Doors, windows, shutters and building hardware, the Secretariat of which is held by AFNOR.

A full contribution to the preparation of this European Standard has been made by the European manufacturers' organization "ARGE".

This European Standard is part of a group of European Standards dedicated to building hardware products.

Informative annex A to this European Standard is indicated in the contents.

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of an identical text or by endorsement, at the latest by February 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.

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1 Scope

This European Standard specifies requirements for all principal components for sliding doors and folding doors of the bi-fold type and multi-panel folding doors but excluding doors and panels. Cycle tests, static load, initial friction and corrosion resistance test are included for fittings and track only. This European Standard covers door gear for all industrial and residential sliding doors and folding doors.

This European Standard does not cover sliding doors round the corner and light bottom sliding doors.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 1670, *Building hardware — Corrosion resistance — Requirements and test methods.*

3 Definitions

For the purposes of this Standard, the following definitions apply.

3.1

aligner

fittings which retain a folding door in a flat and aligned closed position (see Figure 1)

3.2

bottom guide

fitting which, with a bottom guide channel, controls the lateral movement of a sliding or folding top hanging door

3.3

bottom guide channel

channel section fitted either to the base of a structure or the bottom edge of a door to accommodate the bottom guide

3.4

bottom pivot

axis fitted to the bottom of a folding door which turns in a bottom pivot socket (see Figure 1)

3.5

bottom pivot socket

fixed component in which the bottom pivot of a folding door is located (see Figure 1)

3.6

bottom rail

rail fixed to the base of a structure or floor, on which bottom rollers run

3.7

bottom roller

fitting attached to the bottom of a door which allows it run on a bottom rail

3.8

folding door, bi-fold type

door formed by two panels connected by hinges and operating on pivots running in a top track with guide

3.9

heavy sliding door, bottom rolling

door of mass 100 kg or more with bottom rollers running on a bottom track fixed to the base of the structure or floor, and with a top guide

3.10

heavy sliding door, top hanging

door of mass 100 kg or more which is suspended by top hangers running in a top track fixed to an overhead structural component, and with a bottom guide

3.11

hinges

fittings connecting two panels of a folding door (see Figure 1)

3.12

light sliding door, top hanging

door of mass less than 100 kg which is suspended by top hangers running in a top track fixed to an overhead structural component, and with a bottom guide

3.13

multi-panel folding door

door formed by two or more panels connected by hinges and suspended by top hangers running in a top track fixed to an overhead structural component, or running on bottom rollers with a top guide in a top track

3.14

stop

fitting used to stop a sliding door at the end of its run

3.15

test cycle

all operations from the closed position, to open the test door to the required position and close it again to the closed position

for straight sliding doors, the travel of door is equal to the panel width

3.16

top bracket

support used to carry a top track and secure it to the structure of a building

brackets can be side-wall fixing, ceiling fixing or adjustable