

Industrial, commercial and garage doors and gates — Resistance to wind load — Testing and calculation

The European Standard EN 12444:2000 has the status of a
British Standard

ICS 91.060.50



National foreword

This British Standard is the official English language version of EN 12444:2000.

The UK participation in its preparation was entrusted by Technical Committee B/538, Doors, windows, shutters, hardware and curtain walling, to Subcommittee B/538/5, Industrial, commercial and garage doors and gates, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled "International Standards Correspondence Index", or by using the "Find" facility of the BSI Standards Electronic Catalogue.

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Further information

Users of this standard are informed that the UK submitted a vote of disapproval on the final voting stage of the draft EN for the following reasons:

- 1) The Standard does not indicate how to relate the results of testing to the wind load classifications given in EN 12424.
- 2) EN 12424 identifies wind load classes under which no permanent deformation of the door or its components that could influence the function and safety performance of the door is permitted. Beyond that point, the door is required to stay in place, even permanently distorted, under an additional 25% wind load above the classification load. EN 12444 does not indicate how to verify conformity to this requirement.
- 3) EN 12444 does not indicate how to apply the safety factors given in EN 12604 to cover the transfer of test results or calculated results (which have different factors) into classifications.
- 4) The wording of 9.2.2 is not clear and attempts are being made to have the clause rewritten as follows:
 "When the product is exposed to wind pressures up to a required classification level, the seals between moving parts, such as those located on the perimeters of door panels, may be breached. Where this occurs, seals shall not be physically damaged to prevent compliance with achieved classifications for other characteristics such as air permeability, water penetration or thermal resistance."
- 5) The issues outlined in 1, 2 and 3 are being considered in the course of the preparation of the product standard, EN 13241 to which reference should be made.
- 6) The UK mirror committee (B/538/5) is continuing to apply for amendments to EN 12444 to deal with all the issues outlined.

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 15 and a back cover.

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English version

Industrial, commercial and garage doors and gates —
Resistance to wind load — Testing and calculation

Portes équipants les locaux industriels, commerciaux et de
garage — Résistance à la charge de vent —
Essais et calculs

Tore — Widerstand gegen Windlast —
Prüfung und Berechnung

This European Standard was approved by CEN on 27 October 2000.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

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