DRAFT INTERNATIONAL STANDARD ISO/DIS 6444
Attributed to ISO/TC **162** by the Central Secretariat (see page ii)

Voting begins on
2002-09-26

Voting terminates on
2003-02-26

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

FAST-TRACK PROCEDURE

Door leaves — Determination of the behaviour under humidity varaiations in successive uniform climates

[Revision of first edition (6444:1980)]

Vantaux de portes — Détermination du comportement aux variations d'humidité entre des climats successifs uniformes

ICS 91.060.50

NOTE FROM THE ISO CENTRAL SECRETARIAT

This draft International Standard is submitted for voting to ISO member bodies under the fast-track procedure.

ISO/TC 162 *Doors and windows*, at its meeting held in September 2001, proposed that the EN standard 1294, *Door leaves -- Determination of the behaviour under humidity variations in successive uniform climates*, be submitted for vote under the "Fast-track procedure", in accordance with the provisions of clause F.2, Annex F, of the ISO/IEC Directives, Part 1 (fourth edition, 2001) :

F.2 "Fast-track procedure"

F.2.1 Proposals to apply the fast-track procedure may be made as follows.

F.2.1.1 Any P-member or category A liaison organization of a concerned technical committee may propose that an **existing standard from any source** be submitted for vote as an enquiry draft. The proposer shall obtain the agreement of the originating organization before making a proposal. The criteria for proposing an existing standard for the fast-track procedure are a matter for each proposer to decide.

F.2.1.2 An international standardizing body recognized by the ISO or IEC council board may propose that a **standard developed by that body** be submitted for vote as a final draft International Standard.

F.2.1.3 An organization having entered into a formal technical agreement with ISO or IEC may propose, in agreement with the appropriate technical committee or subcommittee, that a **draft standard developed by that organization** be submitted for vote as an enquiry draft within that technical committee or subcommittee.

F.2.2 The proposal shall be received by the Chief Executive Officer, who shall take the following actions:

a) settle the copyright and/or trademark situation with the organization having originated the proposed document, so that it can be freely copied and distributed to national bodies without restriction;

b) for cases F.2.1.1 and F.2.1.3, assess in consultation with the relevant secretariats which technical committee/subcommittee is competent for the subject covered by the proposed document; where no technical committee exists competent to deal with the subject of the document in question, the Chief Executive Officer shall refer the proposal to the technical management board, which may request the Chief Executive Officer to submit the document to the enquiry stage and to establish an ad hoc group to deal with matters subsequently arising;

c) ascertain that there is no evident contradiction with other International Standards;

d) distribute the proposed document as an enquiry draft (F.2.1.1 and F.2.1.3) in accordance with 2.6.1, or as a final draft International Standard (case F.2.1.2) in accordance with 2.7.1, indicating (in cases F.2.1.1 and F.2.1.3) the technical committee/subcommittee to the domain of which the proposed document belongs.

F.2.3 The period for voting and the conditions for approval shall be as specified in 2.6 for an enquiry draft and 2.7 for a final draft International Standard. In the case where no technical committee is

involved, the condition for approval of a final draft International Standard is that not more than one-quarter of the total number of votes cast are negative.

F.2.4 If, for an enquiry draft, the conditions of approval are met, the draft standard shall progress to the approval stage (2.7). If not, the proposal has failed and any further action shall be decided upon by the technical committee/subcommittee to which the document was attributed in accordance with F.2.2 b).

If, for a final draft International Standard, the conditions of approval are met, the document shall progress to the publication stage (2.8). If not, the proposal has failed and any further action shall be decided upon by the technical committee/subcommittee to which the FDIS was attributed in accordance with F.2.2 b), or by discussion between the originating organization and the office of the CEO if no technical committee was involved.

If the standard is published, its maintenance shall be handled by the technical committee/subcommittee to which the document was attributed in accordance with F.2.2 b), or. if no technical committee was involved, the approval procedure set out above shall be repeated if the originating organization decides that changes to the standard are required.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1294

February 2000

ICS 91.060.50

Supersedes EN 43:1985

English version

Door leaves - Determination of the behaviour under humidity variations in successive uniform climates

Vantaux de portes - Détermination du comportement aux variations d'humidité entre des climats successifs uniformes

Türblätter - Ermittlung des Verhalten bei Feuchtigkeitsänderungen in aufeinanderfolgenden beidseitig gleichen Klimaten

This European Standard was approved by CEN on 12 December 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Ref. No. EN 1294:2000 E

FOREWORD

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

This European Standard replaces EN 43:1985 „Methods of testing doors - Behaviour under humidity variations of door leaves placed in successive uniform climates“.

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 August 2000, and conflicting national standards shall be withdrawn at the latest by August 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This European Standard has been prepared taking into account ISO 6444 and EN 43.

This draft is one of a series of standards for doors.

1 SCOPE

This European Standard describes the method which is to be used to test the behaviour under humidity variations of door leaves placed in successive uniform climates.

This standard can be applied to all door leaves, (e.g. solid doors, hollow core doors, panelled doors and glazed doors), which are nominally flat and rigid, and which contain hygroscopic materials can might influence their behaviour during this test.

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 951	Door leaves - Method for measurement of height, width, thickness and squareness
EN 952	Door leaves - General and local flatness - Measurement method
prEN 12519:1996	Doors and windows - Terminology

3 DEFINITIONS

For the purposes of this Standard the definitions given in prEN 12519:1996 apply.

4 PRELIMINARY CONDITIONING

Prior to the test, condition the door leaf for at least 7 days in one of these two standard climates:

Temperature (20 ± 2) °C; Relative Humidity (65 ± 5) %
Temperature (23 ± 2) °C; Relative Humidity (50 ± 5) %

5 APPARATUS

Climate chambers capable of maintaining controlled temperature and humidity.

Suitable supporting device for holding the door leaf in a vertical position without imposing any restraint that might affect the development of deformation.

Apparatus for measuring general and local flatness in accordance with EN 952.

Apparatus for measuring height and width in accordance with EN 951.

Apparatus for weighing the specimen in accordance with 6.1, 6.2, 6.3, 6.4 and 6.5.

6 TEST PROCEDURE

6.1 Initial measurement

After conditioning the door leaf in accordance with clause 4, measure its height and width in accordance with EN 951, its general flatness in accordance with EN 952, and its mass. Also measure local flatness in accordance with EN 952 if required.

6.2 Exposure to high humidity

Place the door leaf in a climate defined by:

Temperature (23 ± 2) °C
Relative Humidity (85 ± 5) %

The mean values of temperature and relative humidity shall be maintained as close as practicable to the nominal values: the tolerances are permitted only for purposes of regulation.

The duration of exposure to this climate shall be 7 days for doors without applied finish, and 21 days for all other doors.

The test may be stopped before the end of the period specified above, if two successive measurements of general flatness taken at 2 day intervals do not differ by more than 1% or if the specimen has reached hygroscopic equilibrium (difference in mass between two successive weighings at 2 day intervals less than 0,1 % of the initial mass).

If the test house stops the test before the full duration of exposure, it shall give reasons for its decision.

6.3 Measurement after exposure to high humidity

Remeasure the height and width, the general flatness and the mass of the door leaf. Also remeasure local flatness if required.

6.4 Exposure to low humidity

Place the door leaf in a climate defined by:

Temperature	(23 ± 2) °C
Relative Humidity	(30 ± 5) %

The mean values of temperature and relative humidity shall be maintained as close as practicable to the nominal values; the tolerances are permitted only for purposes of regulation.

The duration of exposure to this climate shall be 7 days for doors without applied finish, and 21 days for all other doors.

The test may be stopped before the end of the period specified above, if two successive measurements of general flatness taken at 2 day intervals do not differ by more than 1 % or if the specimen has reached hygroscopic equilibrium (difference in mass between two successive weighings at 2 day intervals less than 0,1 %).

If the test house stops the test before the full duration of exposure, it shall give reasons for its decision.

6.5 Measurement after exposure to low humidity

Remeasure the height and width, the general flatness and the mass of the door leaf. Also remeasure local flatness if required.

7 EXPRESSION OF RESULTS

The results shall be expressed in terms of absolute value and variations in the measurements of the height, width, general flatness, local flatness and mass. The accuracy of the measurements shall be as prescribed in EN 951 and EN 952.

8 TEST REPORT

The test report shall include the following information:

a) all necessary details to identify the door leaf
b) all relevant details concerning the type, dimensions, shape and constructional details of the door leaf, the initial mass, any machining to receive the hardware, and any applied finish
c) description of the device supporting the door leaf during the test
d) duration and characteristics of the conditioning climate if it did not conform to 4
e) reasons for the duration of exposure to the two climates, if shorter than prescribed
f) the successive measurements of height and width
g) the successive measurements of general flatness, and of local flatness if measured
h) the successive measurements of mass
i) any damage occuring during the test
j) name of the testing laboratory
k) the dates between which the test was performed
l) reference to this European Standard