

Office furniture — Office work chair —

Part 3: Safety test methods

The European Standard EN 1335-3:2000 has the status of a
British Standard

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee FW/3, Office furniture, which has the responsibility to:

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 19 and a back cover.

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Contents

	Page
Foreword	2
1 Scope	3
2 Normative references.....	3
3 Test equipment	3
4 General test conditions	7
5 Stability tests	9
6 Testing of rolling resistance of the unloaded chair	13
7 Testing of seat and back rest.....	14
8 Additional test for back rests which are rotatable around a horizontal axis	15
9 Testing of arm rests	15
10 Test report.....	17
Annex A (normative)	18

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 207, Furniture, the Secretariat of which is held by IBN.

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of an identical text or by endorsement, at the latest by August 2000, and conflicting national standards shall be withdrawn at the latest by August 2000.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.

The text was prepared by CEN/TC 207/SC 3/WG 1, Office Furniture - Chairs. The Secretariat is held by DIN.

This series consists of the following parts:

- EN 1335-1 Office furniture - Office work chair - Part 1: Dimensions, determination of dimensions;
- EN 1335-2 Office furniture - Office work chair - Part 2: Safety requirements;
- EN 1335-3 Office furniture - Office work chair - Part 3: Safety test methods.

This standard does not replace any other European Standard.

1 Scope

This part of EN 1335:2000 specifies the test methods to be applied when testing the safety of office work chairs. The corresponding safety requirements are found in EN 1335-2.

This European Standard does not specify type approval tests for chair components.

The tests in clauses 7, 8 and 9 are based upon use for eight hours a day by persons weighing up to 110 kg. For more severe conditions of use increased requirements will be necessary.

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 (including amendments).

EN 1022	Domestic furniture - Seating - Determination of stability.
EN 1335-1:2000	Office furniture - Office work chair - Part 1: Dimensions, determination of dimensions.
EN 1335-2	Office furniture - Office work chair - Part 2: Safety requirements.

3 Test equipment

The tests may be applied by any suitable device because results are dependent only upon correctly applied loads and not upon the apparatus.

The seat loading apparatus shall be such as not to restrain the chair from tilting rearwards nor hinder horizontal movement of the chair when back load is applied.

All loading pads shall be capable of pivoting in relation to the direction of the applied force and the pivot point shall be as close as practically possible to the load surface.

The smaller loading pads specified in 3.5 and 3.6 may be used on any loading point providing this does not influence the result of the test.

3.1 Floor surface

The floor surface shall be horizontal, flat, rigid and smooth.

3.2 Test surface for testing rolling resistance

3.2.1 For testing type W castors

A table with a horizontal smooth steel surface.

3.2.2 For testing type H castors

A table covered with textile having characteristics specified in Table 1.

Table 1 - Textile floor covering

Requirements for	Characteristic
Production method	Tufted
Upper surface	loop pile
Nap count per m ²	100 000 to 130 000
Backing material	synthetic latex
Raw material used for loop pile	100 % polyamide
Yarn type	filament yarn
Pile thickness of fully trimmed sample	3,5 mm
Pile weight of fully trimmed sample	450 g/m ²

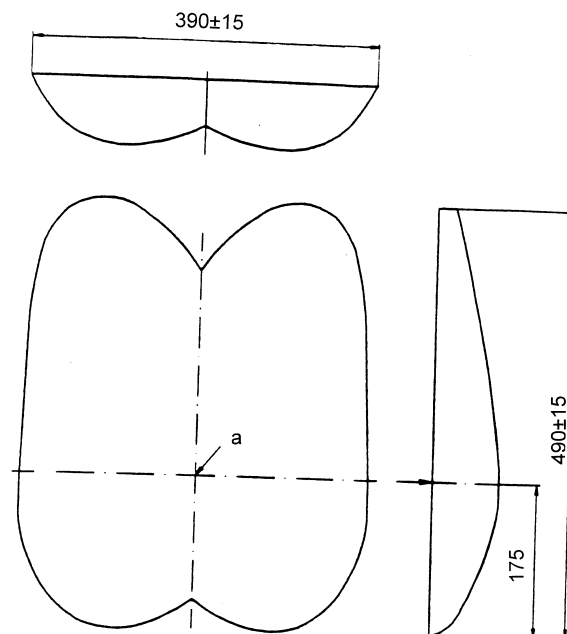
Before test values are measured the chair shall be pushed/pulled five times over the area of the covering which will be used for the test.

3.3 Stops

Stops to prevent the chair from sliding or rolling but not tilting, no higher than 12 mm except in cases where the design of the chair necessitates the use of higher stops, in which case the lowest that will prevent the chair from sliding or rolling shall be used.

3.4 Seat loading pad

The seat loading pad is a naturalistically shaped rigid indenter with a hard, smooth surface having overall dimensions within the limits shown in Figure 1. In principle, this loading pad is for use in loading points "A" and "C" (see Figure 13).



a Force application point

Figure 1 - Seat loading pad - Overall dimensions

Two examples are shown in annex A.

3.5 Smaller seat loading pad

The smaller seat loading pad is a rigid, circular object 200 mm in diameter, the face of which has a convex spherical curvature of 300 mm radius with a 12 mm front edge radius (see Figure 2). In principle, this loading pad is to be used in loading points "D", "G", "F" and "J" (see Figure 13).

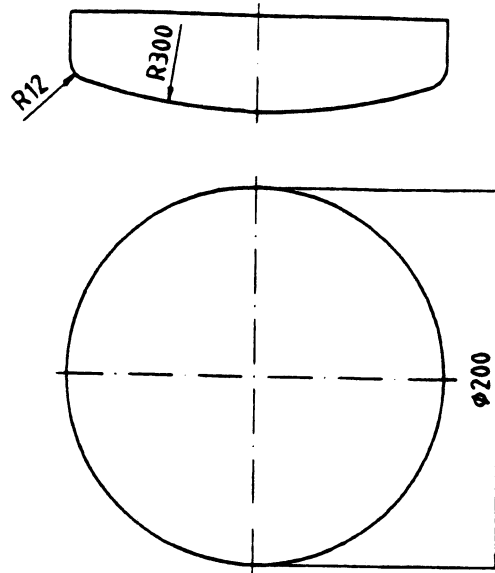


Figure 2 - Smaller seat loading pad

3.6 Local loading pad

The local loading pad is a rigid, circular object 100 mm in diameter, with a flat face and a 12 mm front edge radius.

3.7 Loading discs

Loading discs each with a mass of 10 kg, a diameter of 350 mm and a thickness of 48 mm.

3.8 Test equipment for front edge overbalancing

A 27 kg mass fixed to a 50 mm wide strap.

3.9 Back loading pad

The back loading pad is a rigid rectangular object 200 mm high and 250 mm wide, the face of which is curved across the width of the pad with a convex cylindrical curvature of 450 mm radius and with a 12 mm radius on all front edges (see Figure 3).