
Ergonomija fizikalnega okolja - Ocena okolja s pomočjo okoljske raziskave, ki vključuje fizikalne meritve okolja in subjektivne odzive ljudi (ISO 28802:2012)

Ergonomics of the physical environment - Assessment of environments by means of an environmental survey involving physical measurements of the environment and subjective responses of people (ISO 28802:2012)

Ergonomie der physikalischen Umgebung - Beurteilung von Umgebungsbedingungen auf der Grundlage von Erhebungen unter Einbeziehung physikalischer Umgebungsmessungen und Angaben der Betroffenen (ISO 28802:2012)

Ergonomie de l'environnement physique - Evaluation au moyen d'une enquête environnementale comprenant des mesurages physiques et des réponses humaines subjectives (ISO 28802:2012)

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Ergonomics of the physical environment - Assessment of environments by means of an environmental survey involving physical measurements of the environment and subjective responses of people (ISO 28802:2012)

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This European Standard was approved by CEN on 29 February 2012.

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Foreword

This document (EN ISO 28802:2012) has been prepared by Technical Committee ISO/TC 159 "Ergonomics" in collaboration with Technical Committee CEN/TC 122 "Ergonomics" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by September 2012, and conflicting national standards shall be withdrawn at the latest by September 2012.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Ergonomics of the physical environment — Assessment of environments by means of an environmental survey involving physical measurements of the environment and subjective responses of people

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*Ergonomie de l'environnement physique — Évaluation au moyen d'une
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ISO 28802:2012(E)**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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

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ISO 28802 was prepared by Technical Committee ISO/TC 159, *Ergonomics*, Subcommittee SC 5, *Ergonomics of the physical environment*.

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Introduction

This is one of a series of International Standards concerned with the ergonomics of the physical environment. It provides a method for conducting an environmental survey. It complements other International Standards in the series concerned with specific components of the environment such as thermal, acoustic, lighting and air quality environments. It builds upon those standards to allow the assessment of human response to the total environment.

This International Standard presents methods for the evaluation of comfort using physical measures of the environment and subjective measures from people. It provides methods for the assessment of thermal, acoustic, visual and lighting, and air quality environments, as well as other relevant environmental components. For each environmental component, methods are provided for measuring the physical environment and subjective responses to the environment. An assessment form for use as an environmental assessment tool by the person conducting the survey is also included.

Measurement of the physical environment is conducted using relevant instrumentation such as a thermometer, sound level meter or illuminance meter. Where appropriate, reference to the relevant International Standard is provided for the specification of the instruments. Subjective methods quantify the responses of people to an environment using subjective scales. For each environmental component, examples of subjective scales are provided. The third part of the assessment is concerned with observation. For each environmental component, advice on what may be included in an observation assessment form is provided. An example of an assessment form is provided in Annex A.

Each of these methods has been developed according to basic principles. The most appropriate form of the method or combination of methods used in concert, for the determination of environmental comfort, will depend upon the context and environment of interest. This International Standard provides both principles and application of methods for the assessment of environments using an environmental survey, and complements standards concerned with the ergonomics of the physical environment. In particular, it can be used together with environmental indices that are valid for use in those environments.

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