
**Reaction-to-fire tests — Guidance on the
choice of substrates for building and
transport products**

*Essais de réaction au feu — Lignes directrices sur le choix de
subjectiles pour les produits du bâtiment et du transport*



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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.

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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.

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

ISO 14697 was prepared by Technical Committee ISO/TC 92, *Fire safety*, Subcommittee SC 1, *Fire initiation and growth*.

This first edition of ISO 14697 cancels and replaces ISO/TR 14697:1997, which has been technically revised.

Reaction-to-fire tests — Guidance on the choice of substrates for building and transport products

1 Scope

This International Standard gives guidance on the choice of substrates for building and transport products, when required, for use in reaction to fire tests.

This International Standard is applicable to those building and transport products that are produced and used in combination with other materials; for example, wall-coverings are adhered to many different substrates that vary in their thickness, density, thermal conductivity and flammability characteristics.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1716, *Reaction to fire tests for building products — Determination of the heat of combustion*

ISO 13943, *Fire safety — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13943 and the following apply.

3.1

assembly

fabrication of materials, products and/or composites

NOTE This may include an air gap.

3.2

coating

product applied as a liquid or a powder to a substrate that cures or dries as an external layer on the substrate

3.3

composite

combination of materials, which is recognized in building and transport vehicle construction as a discrete entity

3.4

exposed surface

that surface of the product subjected to the heating conditions of the test or fire in end use

3.5

end use

method of application in an actual building or transport vehicle