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Fire-resistance tests — Elements of building construction

AMENDMENT 2

Amendment 2 to International Standard ISO 834-1975 was developed by Technical Committee ISO/TC 92, *Fire tests on building materials, components and structures*, and was circulated to the member bodies in March 1979.

It has been approved by the member bodies of the following countries :

Australia	Ireland	Romania
Belgium	Israel	South Africa, Rep. of
Brazil	Italy	Spain
Bulgaria	Japan	Sweden
Canada	Korea, Rep. of	Switzerland
Czechoslovakia	Libyan Arab Jamahiriya	Turkey
Denmark	Mexico	United Kingdom
Egypt, Arab Rep. of	Netherlands	USA
Hungary	New Zealand	USSR
India	Norway	Yugoslavia

The member bodies of the following countries expressed disapproval of the document on technical grounds :

France
Germany, F.R.

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- a) Replace A.3.1 by the following :

A.3.1 Furnace

A precise definition of a time-temperature curve for a fire-resistance test according to 4.1.1 is not sufficient as the sole characteristic for determining the temperature fields in an element of building construction exposed to a fire. Another essential factor is the coefficient of heat transfer to the surfaces of the element exposed to the fire. This coefficient is primarily influenced by the convection and radiation conditions.

For a prescribed time-temperature curve, the convection and radiation conditions can vary considerably from one furnace to another, depending on variables such as the geometry of the furnace chamber and the thermal properties of its lining material, the type of fuel, the number, type and location of the burners, and the method of ventilating the furnace. For this reason, test results obtained in different laboratories may be difficult to correlate. Ideally, it would be preferable to control furnaces so as to regulate the total heat flux at the surface of the test assembly. Until the serious instrumental difficulties inherent in such a scheme are solved it is necessary to retain the time-temperature approach.

UDC 69.02 : 699.81 : 620.1

Ref. No. ISO 834-1975/A2-1980 (E)

Descriptors : buildings, construction materials, structural members, floors, walls, partition walls, columns (supports), beams, roofing, tests, fire tests, testing conditions.

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