

Section 2 – Loadbearing Elements

Subsection E3 – Fire Tests for Loadbearing Elements

Clause E3.1

Loadbearing elements should be tested in accordance with the following applicable standards to demonstrate the required FRR (structural stability, integrity and insulation as appropriate):

- (a) BS EN 1363-1:1999, *Fire resistance tests. General requirements*;
- (b) BS EN 1365-1:1999, *Fire resistance tests for loadbearing elements. Walls*;
- (c) BS EN 1365-2:2000, *Fire resistance tests for loadbearing elements. Floors and roofs*;
- (d) BS EN 1365-3:2000, *Fire resistance tests for loadbearing elements. Beams*;
- (e) BS EN 1365-4:1999, *Fire resistance tests for loadbearing elements. Columns*;
- (f) BS EN 1365-5:2004, *Fire resistance tests for loadbearing elements. Balconies and walkways*;
- (g) BS EN 1365-6:2004, *Fire resistance tests for loadbearing elements. Stairs*.

Commentary

FRR of loadbearing elements is classified in accordance with BS EN 13501-2:2007, *Fire Classification of Construction Products and Building Elements – Classification using data from fire resistance tests, excluding ventilation services*.

Clause E3.2

The following British Standards will still be applicable until they are obsolete:

- (a) BS 476: Part 20:1987, *Fire tests on building materials and structures. Method for determination of the fire resistance of elements of construction (general principles)*;
- (b) BS 476: Part 21:1987, *Fire tests on building materials and structures. Methods for determination of the fire resistance of load bearing elements of construction*.