

Table A2 Minimum periods of fire resistance for elements of structure

Purpose group of buildings	Minimum period (minutes) for elements of Structure in a -					
	Basement storey # (including floor over)		Ground or upper storey			
	Depth ⁽³⁾ (m) of lowest basement		Height ⁽³⁾ (m) of top storey in building or of separated part			
	more than 10	not more than 10	not more than 5	not more than 20	not more than 30	more than 30
1. Residential (Domestic) - Houses - Flats and maisonettes	- 90	30* 60	30* 30*	30* 60**	- 90**	- 120**
2. Residential (a) Institutional (b) Other residential	90 90	60 60	60 30*	60 60	90 90	120∅ 120∅
3. Office - not sprinklered - sprinklered	90 60	60 60	30* 30*	60 30*	90 60	X 120∅
4 (a) Shop - not sprinklered - sprinklered ⁽¹⁾	90 60	60 60	60 30*	60 60	90 60	X 120∅
4 (b) Shopping Centre	See 3.5.3		See 3.5.3			
5. Assembly and Recreation - not sprinklered - sprinklered ⁽¹⁾	90 60	60 60	60 30*	60 60	90 60	X 120∅
6. Industrial - not sprinklered - sprinklered ⁽¹⁾	120 90	90 60	60 30*	90 60	120 90	X 120∅
7(b) Car park (i) open sided ⁽²⁾ (ii) any other	X 90	X 60	15* 30*	15* 60	15* 90	X 120∅
7(a) Storage and 8. Other non-residential - not sprinklered - sprinklered	120 90	90 60	60 30*	90 60	120 90	X 120∅

Notes

X not permitted

Modifications

* Increased to 60 minutes for separating walls

** Reduced to 30 minutes for any floor within a maisonette (but not if the floor contributes to the support of the building as a whole)

∅ Reduced to 90 minutes for elements not forming part of the structural frame

≠ The floor over a basement (or if there is more than 1 basement, the floor over the topmost basement) should meet the provisions for the ground and upper storeys if that period is higher.

(1) "Sprinklered" means that the building is fitted throughout with an automatic sprinkler system meeting the relevant recommendations of BS 5306: Part 2, i.e. the relevant occupancy rating together with the additional requirements for life safety.

(2) The car park should comply with the relevant provisions in Section B3, 3.5.2. Refer to Table A1 for specific provisions of test.

(3) For height of top storey or depth of basement, see Appendix C, Diagram 38.

Refer to Table A1 for specific provisions of test for fire resistance of elements of structure.