

10.0 Car parks

Guidance to reflect requirement for upgrading structural fire protection levels to open-sided car parks.

Ref ID	10.01
ADB Volume	2
ADB Paragraph Ref	11.1
Title	Removal of outdated guidance
Current text – 2029 amendment	
Section 11: Special provisions for car parks	
11.1 Car parks call for different measures to restrict fire spread within buildings for the following reasons. a. The fire load is well defined. b. The probability of fire spreading from one storey to another in a well ventilated car park is low. Guidance is therefore given for three ventilation scenarios.	
Proposed text	
Section 11: Special provisions for car parks	
11.1 Car parks call for different measures to restrict fire spread within buildings for the following reasons. a. The fire load is well defined. b. The probability of fire spreading from one storey to another in a well ventilated car park is low. Guidance is therefore given for three ventilation scenarios.	
Reviewer Comment	

Ref ID	10.02
ADB Volume	2
ADB Paragraph Ref	8.14
Title	Sprinklers in car parks
Current text – 2029 amendment	
Sprinklers	
8.14 Buildings within the ‘office’, ‘shop and commercial’, ‘assembly and recreation’, ‘industrial’ and ‘storage and other non-residential’ (except car parks for light vehicles) purpose groups (purpose groups 3 to 7(a)) require sprinklers where there is a top storey above 30m. The sprinkler system should be provided in accordance with Appendix E.	

Proposed text
<h2 style="color: green;">Sprinklers</h2> <p>8.14 Buildings within the ‘office’, ‘shop and commercial’, ‘assembly and recreation’, ‘industrial’ and ‘storage and other non-residential’ (except car parks for light vehicles)-purpose groups (purpose groups 3 to 7(a)) require should be provided with sprinklers where there is a top storey above 30m. The sprinkler system should be provided in accordance with Appendix E.</p>
Reviewer Comment

Ref ID	10.03						
ADB Volume	2						
ADB Paragraph Ref	Table B2						
Title	Fire resistance						
Current text – 2029 amendment							
Purpose group of building	Minimum periods of fire resistance ⁽¹⁾ (minutes) in a:						
	Basement storey* including floor over			Ground or upper storey			
	Depth (m) of the lowest basement		Height (m) of top floor above ground, in a building or separated part of a building				
	More than 10	Up to 10	Up to 5	Up to 11	Up to 18	Up to 30	More than 30
7. Storage and other non-residential:							
b. car park for light vehicles:							
i. open sided car park ⁽⁷⁾	Not applicable	Not applicable	15 min [†]	15 min ^{†#(8)}	15 min ^{†#(8)}	15 min ^{†#(8)}	60 min
ii. any other car park	90 min	60 min	30 min [†]	60 min	60 min	90 min	120 min [‡]
NOTES:							
For single storey buildings, the periods under the heading ‘Up to 5’ apply. If single storey buildings have basements, for the basement storeys the period appropriate to their depth applies.							
†	For compartment walls that separate buildings, the period is increased to a minimum of 60 minutes.						
‡	For elements that do not form part of the structural frame, the period is reduced to 90 minutes.						
#	For elements that protect the means of escape, the period is increased to 30 minutes.						
7.	The car park should comply with the relevant provisions in the guidance on requirement B3, Section 11.						
8.	For the purposes of meeting the Building Regulations, the following types of steel elements are deemed to have satisfied the minimum period of fire resistance of 15 minutes when tested to the European test method.						
i.	Beams supporting concrete floors, maximum $H_p/A=230m^{-1}$ operating under full design load.						