

From BCA 2007 - Volume One
Section C, Specification C1.1-3, Table 3.9
Requirements for Carparks

Building Element	FRL (not less than) Structural Adequacy/Integrity/Insulation <i>ESA/M (not greater than)</i>
WALL	
<i>(A) External Wall</i>	
i) < 3m from a fire-source feature to which it is exposed	
Load Bearing	60/60/60
Non-loadbearing	-/60/60
ii) > 3m from a fire-source feature to which it is exposed	-/-/-
<i>(B) Internal Wall</i>	
i) loadbearing, other than one supporting only the roof (not used for carparking)	60/-/-
ii) Supporting only the roof (not used for carparking)	-/-/-
iii) non-loadbearing	-/-/-
<i>(C) Fire Wall</i>	
i) From the direction used as a carpark	60/60/60
ii) From the direction not used as a carpark	As required by Table 3
COLUMN	
(A) Supporting only the roof (not used for carparking) and 3m or more from a fire-source feature to which it is exposed.	-/-/-
(B) Steel column, other than one covered by (A) and one that does not support a part of a building that is not used as a carpark	60/-/- or 26m ² /tonne
(C) Any other column not covered by (A) or (B)	60/-/-
BEAM	
(A) Steel floor beam in continuous contact with a concrete floor slab	60/-/- or 30m ² /tonne
(B) Any other beam	60/-/-
FIRE-RESISTING LIFT AND STAIR SHAFT (within the carpark only)	60/60/60
FLOOR SLAB and VEHICLE RAMP	60/60/60
ROOF (not used for carparking)	-/-/-
NOTES:	
1. ESA/M means the ratio of exposed surface area to mass per unit length 2. Refer to Specification E1.5 for special requirements for a sprinkler system in a carpark complying with Table 3.9 and located within a multi-classified building	