

From BCA 2007 - Volume One
Section C, Specification C1.1-4
Type A Construction: FRL of Building Elements

Building Element	Class of Building – FRL (in minutes)			
	<i>Structural Adequacy/Integrity/Insulation</i>			
	2, 3 or 4 part	5, 7a or 9	6	7B or 8
EXTERNAL WALL (including any column and other building element incorporated therein) or other external building element, where the distance from any fire-source feature to which it is exposed is –				
<i>For loadbearing parts</i>				
< 1.5 m	90/90/90	120/120/120	180/180/180	240/240/240
1.5 – 3m	90/60/30	120/90/60	180/120/90	240/180/120
3 – 9 m	90/30/30	120/30/30	180/90/60	240/90/60
9 – 18m	90/30/-	120/30/-	180/60/-	240/60/-
> 18m	/-/-/-	/-/-/-	/-/-/-	/-/-/-
<i>For non-loadbearing parts</i>				
< 1.5m	-/90/90	-/120/120	-/180/180	-/240/240
1.5 – 3m	-/60/30	-/90/60	-/120/90	-/180/120
> 3m	/-/-/-	/-/-/-	/-/-/-	/-/-/-
EXTERNAL COLUMN not incorporated in an external wall, where the distance from any fire-source feature				
< 3m	90/-/-	120/-/-	180/-/-	240/-/-
> 3m	/-/-/-	/-/-/-	/-/-/-	/-/-/-
COMMON WALLS and FIRE WALLS	90/90/90	120/120/120	180/180/180	240/240/240
INTERNAL WALLS				
<i>Fire resisting lift and stair shafts</i>				
Loadbearing	90/90/90	120/120/120	180/180/180	240/240/240
<i>Fire resisting stair shafts</i>				
Non-Loadbearing	-/90/90	-/120/120	-/180/180	-/240/240
<i>Bounding public corridors, public lobbies and the like</i>				
Loadbearing	60/60/60	120/-/-	180/-/-	240/-/-
Non-Loadbearing	-/60/60	/-/-/-	/-/-/-	/-/-/-
<i>Between or bounding sole-occupancy units</i>				
Loadbearing	60/60/60	120/-/-	180/-/-	240/-/-
Non-Loadbearing	-/60/60	/-/-/-	/-/-/-	/-/-/-
OTHER LOADBEARING INTERNAL WALLS and COLUMNS				
	60/-/-	120/-/-	180/-/-	240/-/-