

BCA Specification C1.10a FIRE HAZARD PROPERTIES- FLOORS, WALLS AND CEILINGS

In May 2006 the BCA converted the fire performance criteria to CRF and Smoke Developed Rate as tested and measured under AS ISO 9239-1.

The BCA specification C1.10a provides the required CRF values for floor coverings based on the class of building, the location therein (general use or in fire isolated exits) and whether or not the building is sprinkler protected or not. It also provides a smoke developed rate for buildings that are not protected by an E1.5 compliant sprinkler system.

Table 1			
CRITICAL RADIANT FLUX (CRF in kW/M²) OF FLOOR MATERIALS AND FLOOR COVERINGS			
Class of building	General		Fire-Isolated Exits
	Building not fitted with a sprinkler system complying with Specification E1.5	Building fitted with a sprinkler system complying with Specification E1.5	
Class 2, 3, 5, 6, 7, 8 or 9b Excluding accommodation for the aged	2.2	1.2	2.2
Class 3 Accommodation for the aged	4.5	2.2	4.5
Class 9a <i>Patient care areas</i>	4.5	2.2	4.5
<i>Areas other than patient care areas</i>	2.2	1.2	4.5
Class 9c <i>Resident use areas</i>	-	2.2	4.5
<i>Areas other than resident use areas</i>	-	1.2	4.5

This table cross-references the building classes with the minimum required CRF values.