

BCA 2011 ~ Table J1.3a Roofs and Ceilings (Minimum Total R-Value)

<i>Climate zone</i>	<b>1, 2 and 3</b>	<b>4, 5 and 6</b>	<b>7</b>	<b>8</b>
<b>Direction of heat flow</b>	<b>Downwards</b>		<b>Upwards</b>	
Minimum <i>Total R-Value</i> for a roof or ceiling with a roof upper surface solar absorptance value of not more than 0.4	3.2	3.2	3.7	4.8
Minimum <i>Total R-Value</i> for a roof or ceiling with a roof upper surface solar absorptance value of more than 0.4 but not more than 0.6	3.7	3.2	3.7	4.8
Minimum <i>Total R-Value</i> for a roof or ceiling with a roof upper surface solar absorptance value of more than 0.6	4.2	3.2	3.7	4.8

BCA 2011 ~ Table J1.3b Adjustment of Minimum R-Value for loss of Ceiling Insulation

<b>Percentage of ceiling area uninsulated</b>	<b>Minimum <i>R-Value</i> of ceiling insulation required to satisfy J1.3(a)</b>							
	<b>2.5</b>	<b>3.0</b>	<b>3.5</b>	<b>4.0</b>	<b>4.5</b>	<b>5.0</b>	<b>5.5</b>	<b>6.0</b>
	<b>Adjusted minimum <i>R-Value</i> of ceiling insulation required to compensate for loss of ceiling area insulation</b>							
0.5% to less than 1.0%	2.8	3.4	4.0	4.7	5.4	6.2	6.9	
1.0% to less than 1.5%	2.9	3.6	4.4	5.2	6.1	7.0		
1.5% to less than 2.0%	3.1	3.9	4.8	5.8	6.8			
2.0% to less than 2.5%	3.3	4.2	5.3	6.5				
2.5% to less than 3.0%	3.6	4.6	5.9	<b>Not Permitted</b>				
3.0% to less than 4.0%	4.2	5.7						
4.0% to less than 5.0%	5.0							
5.0% or more								
<b>Note:</b> Where the minimum <i>R-Value</i> of ceiling insulation required to satisfy J1.3(a) is between the values stated, interpolation may be used to determine the adjusted minimum <i>R-Value</i> .								