





Roof & Ceiling Total System R-value (m <sup>2</sup> .K/W)		
Zone	R-Value m <sup>2</sup> .K/W	Climatic conditions
1	3.7	Cold interior
2	3.2	Temperate interior
3	2.7	Hot interior
4	3.7	Temperate coastal
5	2.7	Sub-tropical coastal
6	3.5	Arid interior

**SANS 10400-A General Principles and Requirements - Regulation A20 Classification and Designation of Occupancies applicable to Energy Efficiency Regulation XA Energy usage in buildings.**

<b>A1</b>	<b>Entertainment and public assembly</b> Occupancy where persons gather to eat, drink, dance or participate in other recreation
<b>A2</b>	<b>Theatrical and indoor sport</b> Occupancy where persons gather for the viewing of theatrical, operatic orchestral, choral, cinematographical or sport performances.
<b>A3</b>	<b>Places of instruction</b> Occupancy where school children, students or other persons assemble for the purpose of tuition or learning.
<b>A4</b>	<b>Worship</b> Occupancy where persons assemble for the purpose of worshipping.
<b>C1</b>	<b>Exhibition hall</b> Occupancy where goods are displayed primarily for viewing by the public.
<b>C2</b>	<b>Museum</b> Occupancy comprising a museum, art gallery or library
<b>E1</b>	<b>Place of detention</b> Occupancy where people are detained for punitive or corrective reasons or because of their mental condition
<b>E2</b>	<b>Hospital</b> Occupancy where people are cared for or treated because of physical or mental disabilities and where they are generally bed-ridden
<b>E3</b>	<b>Other institutional (residential)</b> Occupancy where groups of people who either are not fully fit, or who are restricted in their movements or their ability to make decisions, reside and are cared for.
<b>E4</b>	<b>Health care</b> Occupancy which is a common place of long term or transient living for a number of unrelated persons consisting of a single unit on its own site who, due to varying degrees of incapacity, are provided with personal care services or are undergoing medical treatment.
<b>F1</b>	<b>Large shop</b> Occupancy where merchandise is displayed and offered for sale to the public and the floor area exceeds 250 m <sup>2</sup>
<b>F2</b>	<b>Small shop</b> Occupancy where merchandise is displayed and offered for sale to the public and the floor area does not exceed 250 m <sup>2</sup> .
<b>F3</b>	<b>Wholesalers' store</b> Occupancy where goods are displayed and stored and where only a limited selected group of persons is present at any one time.
<b>G1</b>	<b>Offices</b> Occupancy comprising offices, banks, consulting rooms and other similar usage.
<b>H1</b>	<b>Hotel</b> Occupancy where persons rent furnished rooms, not being dwelling units.
<b>H2</b>	<b>Dormitory</b> Occupancy where groups of people are accommodated in one room.
<b>H3</b>	<b>Domestic residence</b> Occupancy consisting of two or more dwelling units on a single site.
<b>H4</b>	<b>Dwelling house</b> Occupancy consisting of a dwelling unit on its own site, including a garage and other domestic outbuildings, if any.
<b>H5</b>	<b>Hospitality</b> Occupancy where unrelated persons rent furnished rooms on a transient basis within a dwelling house or domestic residence with sleeping accommodation for not more than 16 persons within a dwelling unit.