

Corporate Profile - Part 3

# The AAAMSA Group



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## SANS 204 Energy Efficiency in Buildings - Major Changes in the Specification of Thermal Insulation Materials

**G**overnment regulations will be introduced in 2010 specifying minimum insulation levels for all new homes and buildings built in South Africa. Small alterations or renovations to existing buildings requiring a building permit may also have to comply with the regulations.

Forthcoming legislation on SANS 204 Energy Efficiency in Buildings will cover the planning and design of naturally and mechanically ventilated buildings in South Africa to achieve comfort and energy efficiency. This includes aspects such as orientation of the building, shading, window design, and choice of insulation materials.



Roofs are exposed to both high solar radiant heat gains in summer and high heat losses during winter nights. The roof-ceiling combination therefore warrants special attention from a thermal point of view.

Design values for thermal resistance and thermal conductivity, which will be met throughout the intended service life of the product in the given application, is therefore critical. Additionally DTS (Deemed-To-Satisfy) thicknesses of insulation promote the environmental benefits of energy savings. For critical design purposes a rational design is recommended.

### How to select insulation

When selecting insulation, ensure that the material:

1. complies with the relevant South African National Standards i.e. product standard;
2. is appropriate for the intended occupancy or building classification in accordance with SANS 10400 Part A;
3. complies with the fire safety requirements given in SANS 10400 Part T and classified in accordance with SANS 428;
4. thermal resistance (R-value) is in accordance with the recommended thermal values for the relevant climatic zones in accordance with SANS 10400 Part XA and SANS 204



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