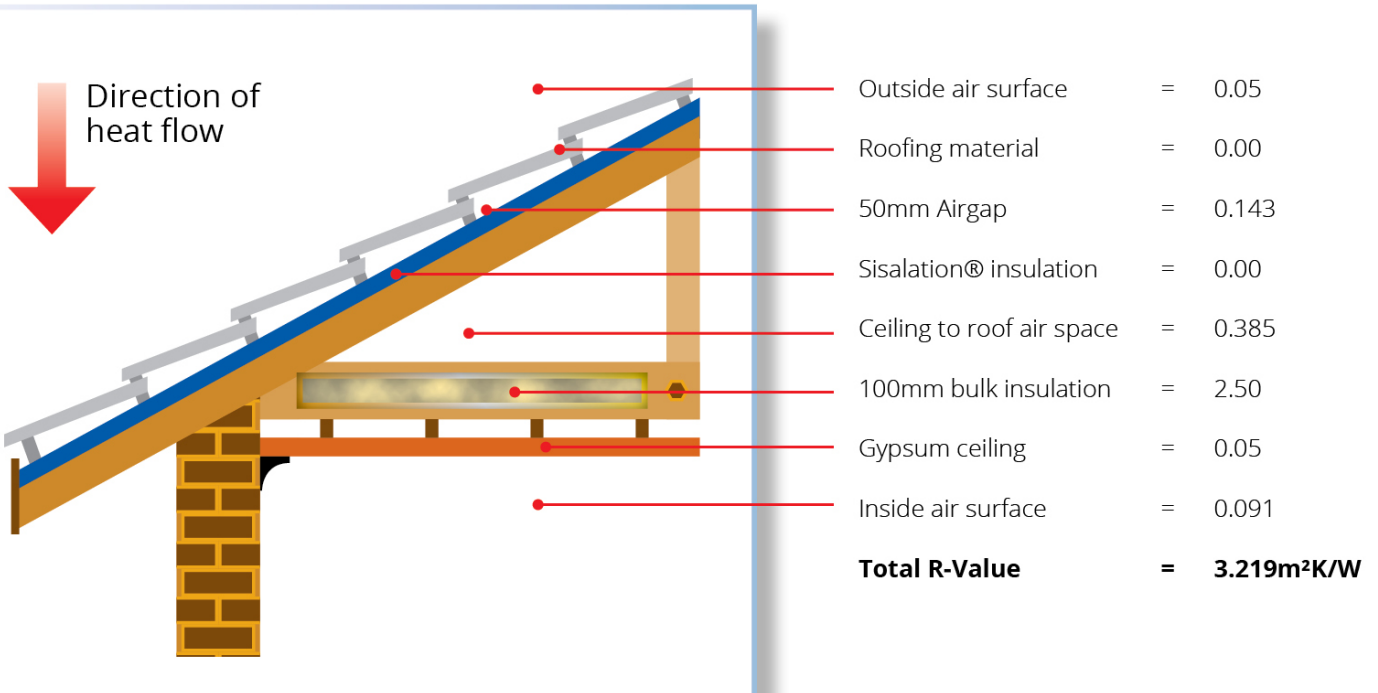


CALCULATIONS

HOW TO CALCULATE AN R-VALUE



The Total R-value required is achieved by adding the R-Value of the basic elements, i.e. roof and ceiling and the R-Value of any additional insulation incorporated in that element (described as the 'minimum' added R-Value of insulation'). The Total R-Value of the basic roof and ceiling has been determined by adding together the R-Values of the outdoor air film, roof cladding, roof air space, ceiling sheet lining and internal film.

The deemed-to-satisfy recommended levels of insulation can be achieved by the use of Sisalation® (reflective foil), bulk insulation or rigid board insulation or in combination with one another.

Sisalation® used in conjunction with an appropriate level of bulk insulation will meet the requirements of SANS 10400-XA at a substantially reduced cost. Additionally, the thickness of the bulk insulation required is considerably reduced when used in conjunction with Sisalation®.

It should also be noted that not all buildings need insulation as prescribed in XA e.g. warehouses used as storage facilities.