

Chapter 7

Insulation Materials

It is impossible to imagine a modern roof without insulation; however, not all insulation is suitable for use with every ***hertalan*** roof system. It is necessary therefore, to distinguish between the various roof systems and the preferred insulation material. Advice should be sought from the ***hertalan*** technical department prior to specification.

Ballasted Roof System

Ballasted roofs can use either non-faced or faced insulation sheets, however non-faced sheets can only be used in the centre of the roof as all edges and corners must be fully adhered, faced sheets must be always used in these areas. The coating layer of the insulation sheet must have high de-lamination strength in relation to the insulation it is fixed to. Failure to consider this aspect could result in the covering being pulled off with the coating layer. The coating layer must also be able to resist ***hertalan*** ks137 and/or ks96.

Garden Roofing System

Fixing principles are as ballasted roofs however, where the vegetation layer is in excess of 80kg/m² in a dry condition, in most cases the horizontal edge fixation can be eliminated, the vertical edge fixing must be retained for a minimum of 200mm.

Mechanically Fixed Roofing System

Fixing principles are as for ballasted roofs, in particular with insulation sheets, unfaced sheets can be used in the centre but faced sheets are required at the perimeter and corners, this should be a minimum of one sheet width. The faced sheets must be resistant to ***hertalan*** ks137 and/or ks96

Bonded Roofing System

In bonded roofing systems where insulation is specified, faced sheets must be used, the facing should be either bituminous or fibreglass based, glass-fibre facings should be securely attached to the insulation. It should be noted that not all faced insulation materials are suitable for use with ***hertalan***; we suggest therefore that the ***hertalan*** technical department is consulted for further advice. Where necessary ***hertalan*** will execute bonding tests and make recommendations where appropriate.