

Bonded Roof systems

hertalan EPDM is suitable for all types of exposed roofing systems. However fixed, ***hertalan*** has very high ageing resistance to the effects of UV-radiation and Ozone.

There are two options for bonded roofing systems, either partially adhered or fully adhered, the choice of system should be made on the basis of results from wind load calculations made on the basis of CP: BS 6399 Part 2 1997.

hertalan can be bonded from the roll or in membranes using ***hertalan*** ks 143, we recommend that for handling purposes the maximum membrane size in this instance is 200m². ***hertalan*** can be bonded to most faced insulation sheets and most other surfaces.

Other Applications

hertalan's primary role is that of roof coverings, however, there are many other applications where ***hertalan*** would be suitable:

- Walkways, (normal foot traffic) ***hertalan*** easy.cover min 2 mm thick
- Gutters ***hertalan*** S or easy.stick
- Cladding ***hertalan*** S or easy.stick
- Expansion Joints ***hertalan*** S
- Balconies ***hertalan*** easy.cover 1.2, 1.5 or 2 mm thick
- Basins/Canals ***hertalan*** easy.cover
- Manure storage ***hertalan*** Agri
- Fresh water storage ***hertalan*** DWQ

Recommendations exist for the above applications and systems, please contact the ***hertalan*** technical department.

Garden Roof Systems

Due to the advanced design of ***hertalan***, being un-reinforced and uncoated, ***hertalan*** EPDM roof membranes are part of an elite group of ecologically sound and accepted roof covering products. There are significant financial benefits to using large ***hertalan*** prefabricated membranes. In addition, ***hertalan*** is resistant to root penetration in accordance with DIN 4062.

hertalan can be used in any type of garden roof and systems with extensive vegetation requiring minimal maintenance. The system does increase the permanent roof load however, up to a maximum of 240kg/m².

hertalan can be used for all types of garden roof project, we can provide design and/or specifications for roofs with low maintenance vegetation systems or intensive vegetation systems requiring weekly or normal horticultural maintenance. Designers should note that the above specifications would increase the permanent roof load by between 240kg/m² (max) and 900kg/m² (max) respectively.

Whatever ***hertalan*** system is preferred, the system will consist of the following components, ***hertalan*** drainage layer, filter membrane, substrate layer and the vegetation layer, with lightweight roofs the vegetation layers are purpose grown on a specially prepared geo-textile mat prior to delivery to site.

Mechanically Fixed Roofing System

Hertalan have developed three types of mechanically fixed roofing systems for use on either light or heavyweight roof structures, the three systems are outlined below:

Hertalan easy.cover MF, this system has "flaps" factory welded to the underside of the prefabricated membrane by hot bonding process. The flaps are positioned in accordance with the results of wind load calculations.

Hertalan easy.cover CFS, fixings in this system are made through the prefabricated membrane (screws etc) and waterproofing is achieved by finishing with either ***hertalan S*** strips adhered with ks96 or by using ***hertalan easy.weld CS*** strips applied with a Leister Gun.

Hertalan easy.weld MF, this system employs the use of lengths of ***hertalan*** from rolls, this ***hertalan*** is reinforced and on each alternate side (top and bottom) has a 40mm strip of weldable ***hertalan EW***. These lengths are mechanically fixed near to the edge of the membrane and then sealed by welding the ***hertalan EW*** with a Leister Gun.

Chapter 5 **hertalan Roofing Systems**

Edge fixings

Sound edge fixings are a vital part of every **hertalan** installation and a secure system of fixing is essential along all roof edges, methods of fixing can include:

- I.** Bonding with **hertalan** ks137 contact adhesive, a minimum width of 300mm is specified with at least 150mm against vertical planes (where necessary) and 150mm onto the roof surface or horizontal plane.
- II.** When using mechanical fixing systems all edges must also be adhered with **hertalan** ks137 for a minimum of 150mm horizontally and 150mm vertically (where applicable). It is acceptable to substitute the **hertalan** ks137 with beads of **hertalan** ks96 in the vertical plane, beads should not exceed 50mm centres.
- III.** When bonding with **hertalan** ks96, use 3 beads of adhesive to both the horizontal and vertical plane at 50mm max centres.

To ensure good edge fixation it is recommended not to use angle filets, these should be removed and replaced with timber if required.

Ballasted Roofing System

Hertalan EPDM waterproofing systems can be used on either new developments or refurbishment projects. The **hertalan** loose laid and ballasted system offers rapid installation by utilising large factory pre-fabricated membranes, **hertalan** easy.cover membranes ensure that the roof is made waterproof very quickly. Membranes can be ordered in one piece up to 2000m².

With renovation projects, existing roof coverings can be prepared to receive **hertalan** without the need for costly stripping, this has the advantage of speed and offers savings by utilising the existing insulation. Where the roof has bitumastic coverings it is necessary to fit a **hertalan** easy.tex separation layer before applying the **hertalan** easy.cover membrane.

There are two types of ballasted roofing system, **hertalan** can be fitted on top of most types of insulation, or alternatively the **hertalan** can be placed under extruded (XPS) insulation.