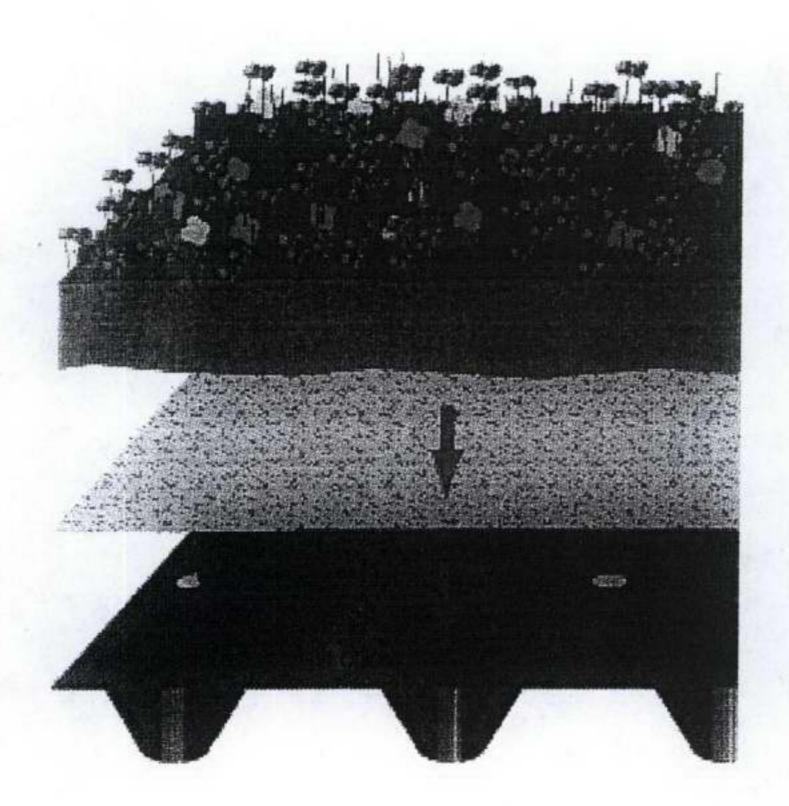
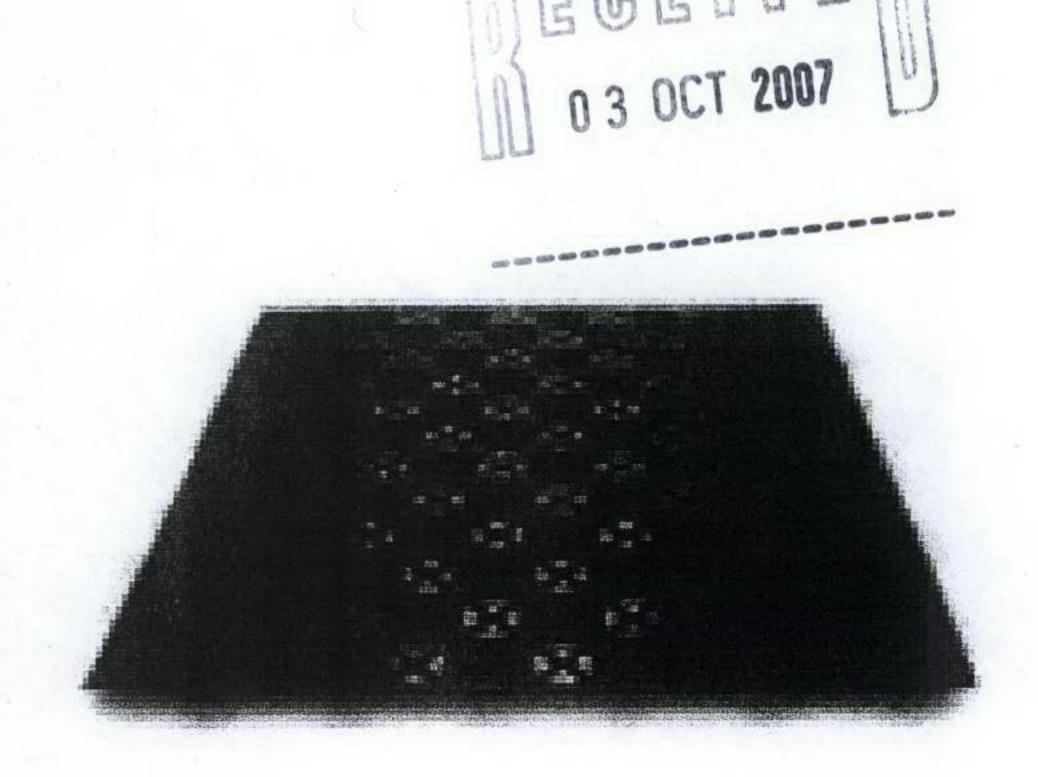
Turf and Green Roofs

The image below is of the product **OLDROYD Xv Membrane** and this is proposed to be used for the Green Roof. In general, the product has a **50 year** product guarantee and the required adequate depth, in terms of construction, including planting density is a minimum 100mm.





The environmental benefits of turf and green roofs are widely recognised, while roof gardens and roof terraces provide much-needed outdoor space in urban areas.

Due to the high degree of insulation that they provide, green roofs are known for their ability to provide an extremely constant temperature throughout the year. During the winter they keep the heat in, and in the summer they provide a relatively cool environment. Green roofs also have the ability to soften harsh edges of buildings in sensitive environments, making them blend in with the surrounding area.

Turf and green roofs provide habitat for insects and other wildlife. Where new buildings are built on Greenfield sites, this new habitat can replace the habitat that would otherwise have been lost.

Green Roof Design Considerations

The most important considerations when designing turf and green roofs are ensuring that the roof is strong enough to support the weight of the turf or plants (even when they are fully saturated by rainfall and covered in several feet of snow!) and ensuring that the roof is watertight.

Structural calculations will need to be made, and the foundations and roofing timbers are likely to require upgrading in order to support the additional weight of a turf or green roof.

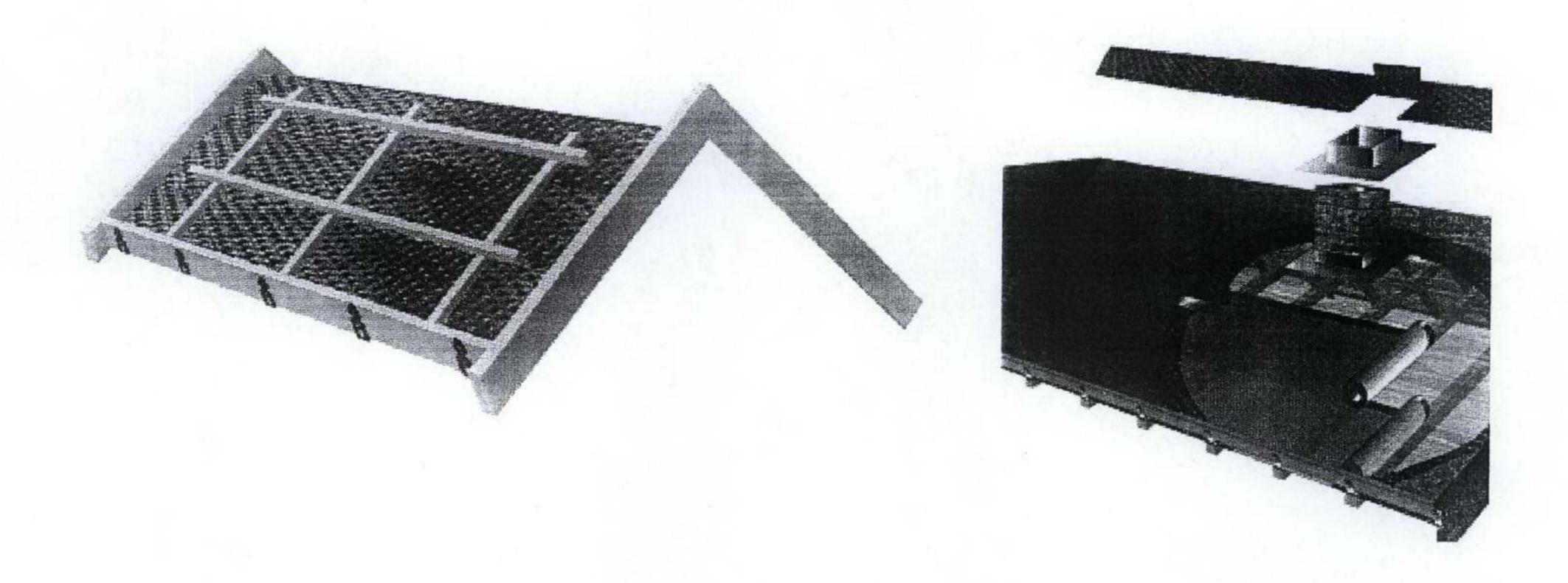
Types of Green Roof

Methods of construction differ between pitched green roofs and flat green roofs. Flat green roofs can be either extensive (have a thin layer of growing material such as sedum matting) or intensive (greater soil depth with shrubs and even trees). The weight requirements for intensive green roofs are such that they are normally installed over concrete roof decks



Pitched Roofs

The benefits of green roofs are becoming increasingly understood by those in the UK construction industry. Waterproofing systems for pitched green roofs tend to be simpler than those for flat green roofs, as "pooling" of water has less potential to cause a problem. Nevertheless, as with all waterproofing products, the success of the system is dependent upon the quality of installation. Typically, the studded Oldroyd Xv Green membrane is laid over a suitable exterior grade bitumenbased roofing felt to form a waterproof drainage layer. The turf or sedum layer is then laid directly over the Oldroyd Xv membrane. An edging board constructed from 2" x 6" treated timber is secured around the perimeter of the roof using special Oldroyd Turf Roof Hooks. This holds the turf in place and prevents it from sliding off the roof. For roofs with a pitch of greater than 23° it is necessary to provide a framework to retain the turf. This can easily be constructed from treated timber as shown in the diagram below



The image above provides a basic illustration of the construction behind the installation of the Membrane and planting on a pitched roof.