

## **Scheme of Sustainable Design Measures- Porthloo Workshop TR21 0NE**

### **Sustainable Design Measures**

The design for the proposed new shed at Porthloo will incorporate several sustainable design measures.

Firstly, the structure of the proposed shed will be a galvanised steel portal frame to increase the longevity of the building. The use of a galvanised metal structure will therefore be longer-lasting compared to a standard timber frame structure.

Timber cladding will be used for the shed which will be sourced from sustainably managed Douglas Fir plantations. The use of timber cladding is a low carbon and more sustainable option than other materials such as steel cladding.

A total of sixteen roof lights will be installed on the new shed roof to maximise natural light within the shed. The use of roof lights will therefore reduce energy usage by limiting the need for artificial lighting.

The new shed will be fully insulated to reduce heat loss in the winter months and increase ventilation in the summer months. Insulation will contribute to the overall sustainability of the new shed by reducing energy usage to heat and cool the building.

Additionally, we are planning to implement a rainwater harvesting system within the next few years. This will involve installing rainwater harvesting tanks to collect rainwater from the roof of the existing shed and new shed which will be used on-site.