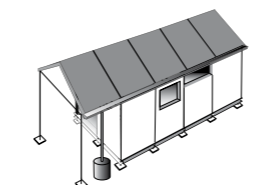
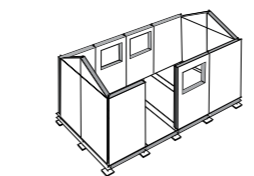
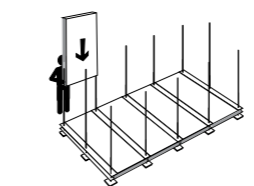
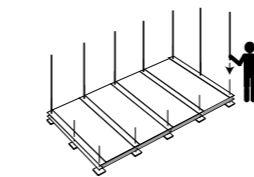
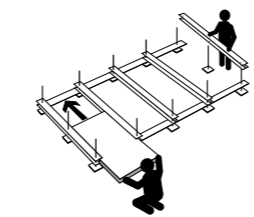
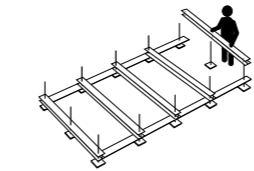
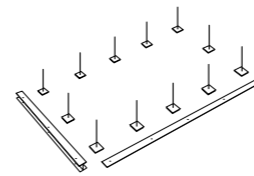
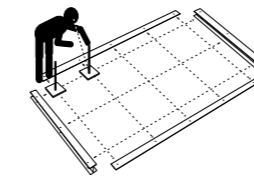


## CONTACT DETAILS

### The Hambleside Group

Robin Jeffery  
2 Lancer House  
Hussar Court  
Westside View,  
Waterlooville  
Hampshire  
PO7 7SE United Kingdom

Telephone 023 9235 4900  
Fax 023 9243 4825  
E-mail [robin.jeffery@hambleside.co.uk](mailto:robin.jeffery@hambleside.co.uk)



## *The Hambleside Shelter* Progress Report

First prototype completed

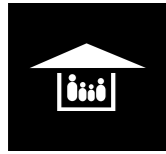


Strong, lightweight and simple to construct, this shelter has many useful applications ranging from commercial, medical, educational and storage requirements through to humanitarian aid/relief accommodation.



# The Hambleside Shelter

## First construction



- ◆ Can be erected using few, if any, tools
- ◆ No foundations are required
- ◆ Thermally efficient insulation for both hot and cold climates
- ◆ Rainwater collection system
- ◆ Easily moved, relocated and cleaned
- ◆ Minimum ten year life expectancy
- ◆ Potential for installation of solar or photo-voltaic power supply.

These photographs record the key stages in the construction of the Hambleside Shelter prototype at our manufacturing centre at Inverness. This was the first time the shelter had been constructed.

### POTENTIAL USES FOR THE SHELTER ARE:-

- Medium term shelter style accommodation
- Medical station
- Site management
- Trading facility
- Educational facility
- Food store, animal or human
- General storage



**1** No foundations for the shelter are required. The floor beams and the wall plates are used as a guide for positioning the adjustable floor support leg plates. This is a visual process and need not be too exact. The fitting of the wall plates and floor support beams will square everything up.



**2** Once the floor beams are all in position the insulated floor panels are slid into place between the beams.



**3** When all the floor panels are positioned the base of the shelter will now be rigid. You can now move on to assembling the walls.



**4** The tubular wall supports are slid into position over the upright sections of the floor support plates. These cruciform posts lock into the pre-cut channels of the insulated wall panels.



**5** The fully insulated wall panels are then slid into position between the tubular cruciform post wall supports. The entrance door can be positioned on either side of the shelter. The windows can be positioned in the walls to suit the users needs.



**6** The shelter with all of the lower sections of the wall panels in place and the cruciform in place for the upper wall panels and window sections.



**7** Inserting the upper wall panels.



**8** The shelter with all of the wall sections completed.



**9** A cross-section view of the roof showing the lightweight GRP and foam core panels which provide the high levels of insulation.



**10** The shelter with the roof nearing completion



**11** The completed shelter with a covered area on the right end elevation.

### The Group and the Environment

In recognition of production policies which help protect the environment the Group has received several awards.

In 2006 the Group received the Queen's Award for Enterprise: Innovation for the environmental benefits provided by the Insulator Rooflight. In the same year it achieved recognition under BS 14001 and a B.C.E. Award, for its environmental management systems. A further Green Apple Award was received for the Stormforce 225 Valley Trough Range, due to the introduction of new manufacturing processes which reduced waste and replaced virgin raw materials with materials generated from recycled products.

In 2005 Hambleside Danelaw was a finalist in the Carbon Trust Innovation award scheme in recognition of the contribution made by the Insulator GRP rooflight to the reduction of carbon emissions from buildings. In addition, Hambleside has achieved several other environmental awards, between 2002 and 2006.

### Waste, recycling and End of Life

The target is to reduce landfill to 1% of GRP based raw materials by the end of 2007. We have introduced equipment to enable us to recycle old GRP materials as well as our own scrap from production. This new plant will make a substantial impact on existing landfill requirements.