

Building Structural and Environmental Information

The building has a frame of laminated timber. Walls are clad externally in Siberian larch and large north and east-facing windows provide far-reaching views and natural light to keep energy costs down.

Design throughout has been environmentally sensitive, to provide a versatile building, in keeping with its surroundings and purpose. Its profile resembles the tented pavilion structures that appear on the showground during the annual Royal Cornwall Show.

A coating-free aluminium roof gives the Pavilion Centre a distinctive look. The material has also been chosen because it is easy to recycle, a process which requires only five per cent of original manufacturing energy. A fireproof fibre made from naturally occurring volcanic material – provides roof insulation.

A one-metre overhang to the roof edges will help to protect the natural timber claddings and provide a degree of sun screening in summer. An internal environment management system monitors Co2 in the atmosphere and draws in fresh air – heated as required - from foundation level. A low-energy lighting system incorporates automatic switch off which senses when rooms are not being used.

The site on which the pavilion is built slopes west to east, so the intriguing design features one storey in the west and three storeys in the east. The lower basement storey is partly underground.