

Conclusion

The development of a software based analytical tool able to simultaneously model both moisture and thermal dynamic performance, has permitted full use to be made of the building fabric to moderate room temperature and moisture conditions. Not only has this allowed the elimination of the air conditioning normally needed to achieve the $\pm 5\%$ relative humidity limits, it has also significantly

reduced the building's capital and running costs, and resource needs.

This design and analytical approach has significance beyond the archive repository building type. It expands the range of buildings for which passive environmental control may be suitable. It also has the potential to reduce the peak load capacity needed for mechanical environmental solutions, as well as reducing the operating hours these systems need to run.

Notes

1. On the selection process, Denise Williams, Head of Archives, Jersey Heritage Trust has written:

'An outline brief only was sent to local architects inviting them to put forward proposals. The intention at this stage was to see whether the architects understood the key concepts behind such a specialist building and had the vision to meet the Trust's other requirements for a landmark building. The choice of local architects and engineers was deliberate. This was a project involving some of Jersey's most precious heritage, paid for by the Jersey taxpayer and in the main to be used by them. It was therefore only right that local designers and eventually a local construction firm should be used. Each set of proposals was presented to a selection team consisting of the Chairmen of the Trust and the Archives Management Committee, the Archivist and representatives of the States' planning and architectural services.

'BDK Architects working in association with London-based MacCormac Jamieson Prichard, which had experience in archive and library design elsewhere, were chosen. Not only did the architects exhibit clear understanding of what an archive was, and indeed were the only team to visit the Archivist beforehand to discuss the matter, but they proposed a very modern design which directly challenged traditional views on archives. It was also important that I personally felt that it was a group of people with whom I could work.'

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Design and construction credits

Architects:

BDK Architects in association with MacCormac Jamieson Prichard
BDK Architects, Jersey
 Paul Harding (lead project director)
 Fiona Godel (project architect)
MacCormac Jamieson Prichard
 David Prichard (partner in charge)
 Neil Deely (project architect)

Structural and M&E engineers

Ove Arup and Partners, Arup Rothwell
 Chris Twinn (project director)

Landscape architect

Colvin & Moggridge

Quantity surveyor

Tilyard Jersey
Artists
 Louise Lusby Taylor
 Richard Powell
 Elisabeth Taylor
Main contractor
 Camerons Ltd

Illustration credits

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Biography

David Prichard is a partner in MacCormac Jamieson Prichard. Chris Twinn is an Associate Director with Ove Arup & Partners.