

The Glasgow House

Glasgow Housing Association

Building Performance Evaluation

The logo for MEARU, consisting of the word "MEARU" in white, uppercase, sans-serif font, centered within a solid green rectangular background.

This is a project undertaken an analysis of the performance of the prototype 'Glasgow House' Project. The project focussed on the four energy-efficient prototype homes, which aim to dramatically reduce bills for heating and hot water. Glasgow Housing Association (GHA) teamed up with architects PRP and contractor City Building to build the prototypes, known as 'The Glasgow House', which feature high standards of insulation, coupled with low energy running costs and simple technology. To deliver this the partnership focused on two different build types for the semi-detached dwellings; one is a traditional timber kit construction the other uses a ThermoPlan clay block .

This study followed on from the earlier study MEARU undertook for GHA but involved more detailed occupancy studies to evaluate the environmental performance of the houses and users perceptions of comfort and environmental quality. This study aimed to quantify the as-built performance, and relative energy and environmental performance of both house types in relation to different occupancies. It provided insights into the scale of variation that different regimes produced and it examined the relative performance of the clay block house against the timber frame.

The results can be used to inform architects and clients about occupancy effects, and the need to design in robust performance criteria for effect and efficient design.

Project Title: 'The Glasgow House' Building Performance Evaluation

Client/ Funding body: Glasgow Housing Association (GHA)

Date : Oct 2012

Project Value- £22,900

Team: MEARU- Prof Tim Sharpe, Donald Shearer

Links/ Outputs

External Partners: Glasgow Housing Association
<http://www.gha.org.uk/content/>