Construction Sector Group Publication
Updated: October 2015

Composites UK Trade Association

Startlink House

Overview

A pultruded glass reinforced composite component kit which can be rapidly assembled into a wide variety of low-rise building forms without metal fastenings.

Details

Location	Lincolnshire, UK.
Description	Startlink is a pultruded glass reinforced composite component kit which can be rapidly assembled into a wide variety of low-rise building forms without metal fastenings.
Client	Larkfleet Group.
Date of project	2012
Where FRP composites are used and why	The system is stable, inert and impervious to moisture, requiring only the addition of insulation to build houses. With appropriate insulation, the Startlink house has embodied energy only 20% greater than that of a conventional timber framed building (containing kiln-dried, double vacuum-treated timber and raised from mass concrete footings) of the same floor plan area built to the same Passivhaus compliant standard. However, the Startlink house needs no maintenance and is rot and termite proof.
Specific design details	'Thermal bridging' is eliminated. The inherent dimensional stability of pultruded profiles means that air tightness is easily achieved. Because of its lightweight nature, the Startlink house reduces shipping and assembly costs, is easier to build and heat.
Type of composite used	Pultruded GRP.
Performance in service	A full video monitoring of all stages will produce feedback to further refine the processes for future developments beyond the programme. Environmental assessment, SWOT analysis and through life costs of the system and construction process will also be carried out.
Project partners	Odour Control Systems, Exel Composites, Larkfleet Group, University of Warwick, Costain, John Hutchinson
Further Information	Exel Composites, T: +44 (0)1928 701515 | www.exelcomposites.com

Contact

Email: info@compositesuk.co.uk
Web: compositesuk.co.uk/construction-sector-group