





Cre8 Barn Stirley Community Farm specification guide

1.1

specialist Passivhaus/low energy products from Green Building Store

product image	description	more information
	Windows and doors	Timber aluminium composite range with slim frame and sightlines. Uw = 0.77 W/m²K. Passivhaus Institut certified thermal-bridge-free connection.
	MVHR units	2 X PAUL Novus 450 units. Passivhaus Institut certified. PHI certified heat recovery efficiency of 89% [89-348 m³/h].
	Vapour open membrane	Pro Clima SOLITEX WA. Vapour open membrane used as frame wrap on outside of timber frame walls.
	Airtightness membrane	Pro Clima DA-S. Used for airtightness sealing at a variety of junctions within the structure, including: around purlins and trusses in the roof and at floor/wall junction.
	Airtightness tape	Pro Clima Tescon No 1. Flexible, multi-purpose tape used to join: OSB board in roof; Spano Vapourblock boards in walls; and polyurethane sheets in ground floor slab.
	Airtightness tape	Pro Clima Tescon VANA tape. Used interchangeably with Tescon No 1, where greater rigidity was needed.
	Airtightness tape	Pro Clima Tescon Profil tape. Flexible tape designed for corner joints used around window and door installations.
	Airtightness adhesive	Pro Clima Orcon F. Multipurpose flexible joint adhesive for indoor/outdoor applications, including sealing the timber frame cassettes and connecting DA-S membrane to floor at floor/wall junction.

To see Green Building Store's
Passivhaus range go to:
www.passivhausproducts.co.uk





www.greenbuildingstore.co.uk
Tel 01484 461705






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1.2

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	Airtightness grommets	Pro Clima Roflex & Kaflex grommets. Used to improve airtightness around pipework and cable penetrations into the timber frame structure.
	Wall ties	Customised Teplo Tie low conductivity basalt wall ties. Thermal conductivity 0.7 W/mK. Used as a wall connector to connect the masonry walls with inner timber frame, to help shore up and support the original stone building.
	Door threshold	Compacfoam CF200. Strong high performance insulation material used to reduce thermal bridging around door threshold. Thermal conductivity: 0.046 W/mK.

specialist Passivhaus/low energy services from Green Building Store

product image	description	more information
	Design and build	Green Building Store's construction division Green Building Company undertook the design and build of The Cre8 Barn refurbishment project. www.greenbuildingco.co.uk
	MVHR ducting service	Lindab steel ducting design and commissioning service.
	PHPP design services	Passivhaus Planning Package (PHPP) and Therm modelling.

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1.3

other products used on the project

product name	more information
LED Lighting	Range of energy saving LED floodlights, downlights, ceiling lights emergency and exit lights. Supplied by www.ledhut.co.uk
Condensing gas boiler	12.9KW output.
Walls	
Timber frame walls	241mm TJ joists at 400mm centres. Fabricated on site in 2400mm wide cassettes.
Wall insulation	250mm fibreglass insulation. Thermal conductivity: 0.04 W/mK.
Sarking board/insulation	60mm Gutex Multitherm. Wood fibre insulation. Supplied by www.ecologicalbuildingsystems.com
Airtightness board (walls)	Spano VapourBlock. Supplied by www.ecologicalbuildingsystems.com
Ventilation (for cavity)	40 X 225mm/75mm plastic air bricks with sleeves through the masonry walls.
Roof	
Timber frame roof	406mm TJ joists
Roof insulation	2 X 200mm fibreglass insulation. Thermal conductivity: 0.04 W/mK. 25mm polystyrene.
Sarking board/insulation	60mm Gutex Ultratherm. Wood fibre insulation/sarking board. Supplied by www.ecologicalbuildingsystems.com
Airtightness board (roof)	18mm OSB board.
Floor	
Floor insulation	2 X 100mm rigid polyurethane insulation.

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