



Val-U-Therm

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Val-U-Therm[®]

The closed-panel building system
that delivers exceptional thermal insulation and
class-leading environmental sustainability.



The next generation of building technology

Climate change presents a key challenge to the construction industry. National building regulations and codes are being steadily tightened and developers are finding themselves under increasing pressure to deliver energy-efficient, 'low carbon' housing.

Val-U-Therm is a panel building system that offers a fabric-first, integrated construction solution to this challenge. It delivers exceptional thermal and air-permeability performance and class-leading environmental sustainability.

It is constructed of a precisely engineered sandwich of sheathing boards, performance membranes and factory-injected high performance insulation (which is derived from recycled, renewable vegetable oil).

Val-U-Therm offers a proven route to regulatory compliance, both now and in the future. For example, it offers a way to achieve the higher levels of the Code for Sustainable Homes. Overall, it delivers energy-efficient, healthy, sustainable homes that have enhanced kerb appeal for customers who want lower fuel costs and a greener place to live.

Compared to a traditionally built property meeting Building Regulations, Val-U-Therm can deliver space heating cost savings of over 80%⁽¹⁾.



Val-U-Therm can allow a typical family to have a home that costs less than 50p per week to heat⁽¹⁾.

	Space Heating Costs £/yr (using gas)
B Regs As Built	£226.38
B Regs Minimum	£147.00
Val-U-Therm (Med. Spec) ⁽²⁾	£30.52
Val-U-Therm (High Spec) ⁽²⁾	£18.15

(1) An independent report detailing the assumptions and usage criteria adopted to calculate these figures is available on request.
(2) Med. Spec: 0.15 W/m²K and High Spec: 0.11 W/m²K

An integrated construction solution for a wide range of sectors

Val-U-Therm can be used to provide a whole-building envelope or as an infill in any other building or refurbishment system.



Builders and Developers

Val-U-Therm provides builders and developers with a cost-effective, low-carbon building solution that minimises heating costs and allows renewable energy technology to be optimised. It delivers real kerb appeal and allows the potential of any site to be maximised.



Housing Associations (HA)

Val-U-Therm delivers cost-effective, 'future-proofed', healthy homes. This allows HAs to invest and build with confidence. It also allows them to address fuel poverty issues at a fundamental level – by providing their tenants with homes that are exceptionally cheap to heat.



Architects

Val-U-Therm is perfect for architects who are looking for a cost-effective way to realise their design goals and achieve class-leading sustainability credentials. It allows flexibility and innovation in the design and build process and can be adapted to almost any architectural style.



Self Builders

Val-U-Therm provides self-builders with a straight-forward and cost-effective way to realise their design and lifestyle goals. It provides the flexibility they need to see their personal vision fulfilled and delivers high-quality, fuel-efficient, comfortable homes.

The benefits of Val-U-Therm

Val-U-Therm delivers a fabric-first approach to energy efficiency, air permeability and environmental sustainability.



Exceptional Thermal Performance

Val-U-Therm provides exceptional thermal insulation, thermal bridging and air permeability performance. It offers a cost-effective route to achieve an 'A' rated Energy Performance Certificate and compliance with PassivHaus and other similar standards.



Class-leading Environmental Sustainability

Val-U-Therm has zero Ozone Depletion Potential. Made from sustainably-produced timber and recycled, renewable vegetable oil (from UK crops), it has an 86% bio-based content, can be recycled and attracts an A/A+ BRE Green Guide Rating.



Buildability

Val-U-Therm is, typically, 30-40% quicker to erect than other systems. It incorporates a service zone (for plumbing etc) and can be specified to include factory-fitted windows and doors. Thanks to its high performance, only relatively thin panels are needed, which maximises site utilisation.



Proven Credentials

Val-U-Therm is based on the best aspects of timber frame technology and complies with all relevant British, European and International Standards. It is 3rd party accredited (achieving BBA certificate number 12/4892) and is accepted by insurers (eg NHBC) and other key financial institutions.

The Val-U-Therm process



Computer-Aided Design

Val-U-Therm can be specified to meet a wide range of structural, architectural and performance requirements. It is made in three main configurations: wall, floor and roof panels.



Factory Manufacture

Val-U-Therm is manufactured in panels up to 10m long using state-of-the-art high-pressure insulation injection technology. This ensures that insulation fills every corner of every panel.



Rapid Build

Val-U-Therm is transported to site in a flat-pack configuration and is relatively quick and easy to assemble.



Exceptional End Product

Val-U-Therm facilitates the delivery of buildings that are comfortable, energy-efficient, healthy, easy to maintain and draught-free.