Val-U-Therm Limited
Inverurie Business Park
Souterford Avenue
Inverurie
Aberdeenshire AB51 0ZJ

Tel: 0300 303 3505
e-mail: info@valutherm.co.uk
website: www.valutherm.co.uk

Agrément Certificate
12/4892
Product Sheet 1

VAL-U-THERM BUILDING SYSTEMS

VAL-U-THERM WALL, FLOOR AND ROOF PANELS

This Agrément Certificate Product Sheet(1) relates to Val-U-Therm(2) Wall, Floor and Roof Panels, timber insulated structural panels for use above the damp-proof course in dwellings up to four storeys high (including room-in-roof). The panels can be used as the loadbearing inner leaf of external walls, loadbearing internal walls, double leaves of separating walls, infill panels, floor panels or pitched/flat roofing panels.

(1) Hereinafter referred to as 'Certificate'.
(2) Val-U-Therm is a registered trademark.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

KEY FACTORS ASSESSED

Structural performance — the panels have adequate strength to resist the loads associated with in-service loading (see section 6).

Condensation risk — walls, floors and roofs, openings and junctions can adequately limit the risk of surface condensation (see section 7).

Thermal performance — the panels contribute to the overall thermal performance of the building construction (see section 8).

Behaviour in relation to fire — walls incorporating the panels and appropriate linings can provide sufficient fire protection (see section 10).

Sound insulation — separating walls with additional plasterboard, soundproof linings and detailing as shown in this Certificate can provide sufficient sound insulation (see section 12).

Durability — the panels will have a 60-year minimum service life provided that they are protected from damage by the external and internal finishes (see section 15).

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Second issue: 3 May 2017

Originally certificated on 21 February 2012

Brian Chamberlain
Head of Technical Excellence

Claire Curtis-Thomas
Chief Executive

The BBA is a UKAS accredited certification body – Number 113.

The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk
Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

British Board of Agrément
Bucknalls Lane
Watford
Herts WD25 9BA

tel: 01923 665300
fax: 01923 665301
clientservices@bba.star.co.uk
www.bbacerts.co.uk

Regulation:	**29**	**Condensation**
Comment:		The panels will contribute to minimising the risk of interstitial condensation. See section 7.2 of this Certificate.
Regulation:	**30**	**Stability**
Comment:		Walls, floors and roofs constructed from the panels will have sufficient strength and stiffness when designed and constructed in accordance with sections 6.1 to 6.3 and 6.5 to 6.8 of this Certificate.
Regulation:	**31**	**Disproportionate collapse**
Comment:		Walls will have adequate strength and stiffness to satisfy this Standard. See sections 6.1 to 6.3 and 6.5 to 6.8 of this Certificate.
Regulation:	**35(1)(2)(3)**	**Internal fire spread — Structure**
Comment:		The panels can be used in walls required to have a fire resistance of 60 minutes. See sections 10.1 to 10.7 of this Certificate.
Regulation:	**39(a)(i)**	**Conservation measures**
Regulation:	**40(2)**	**Target carbon dioxide emission rate**
Comment:		The panels will contribute to satisfying these Regulations. See sections 8.1, 8.2, 9.1 and 9.3 of this Certificate.
Regulation:	**49**	**Protection against sound from other parts of the building and from adjoining buildings**
Regulation:	**50**	**Protection against sound within a dwelling or room for residential purposes**
Comment:		When installed with suitable flanking elements, separating walls incorporating the panels can satisfy this Regulation. See section 12.1 of this Certificate.

Construction (Design and Management) Regulations 2015
Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

See sections: 1 *Description* (1.2) and 3 *Delivery and site handling* (3.3) of this Certificate.

Additional Information

NHBC Standards 2017

NHBC accepts the use of Val-U-Therm Wall, Floor and Roof Panels, provided they are installed, used and maintained in accordance with this Certificate, in relation to *NHBC Standards*, Chapters 5.2 *Suspended ground floors*, 6.2 *External timber framed walls*, 6.4 *Timber and concrete upper floors, 7.1 Flat roofs and balconies* and 7.2 *Pitched roofs*.

Technical Specification

1 Description

1.1 Val-U-Therm Wall, Floor and Roof Panels (see Figure 1) are structural elements consisting of a timber framing, internal and external sheathing of Type 3 (OSB/3) oriented strand board to BS EN 300 : 2006, and an insulation core of closed-cell, zero-rated Ozone-Depleting Potential polyurethane (PUR). The sheathing extends past the bottom rail of the panel to facilitate fixing to the soleplate and also at the top rail to allow fixing to a headbinder or ringbeam. Panels are designed with a male and female jointing system for fixing panels together, both for straight runs and at corners. The corner jointing studs are normally fixed on site to facilitate easier transportation and stacking.

Val-U-Therm Limited
Inverurie Business Park
Souterford Avenue
Inverurie
Aberdeenshire AB51 0ZJ

Tel: 0300 303 3505
e-mail: info@valutherm.co.uk
website: www.valutherm.co.uk

Agrément Certificate
17/5421
Product Sheet 1

VAL-U-THERM BUILDING SYSTEMS

VAL-U-THERM PLUS WALL, FLOOR AND ROOF PANELS

This Agrément Certificate Product Sheet(1) relates to Val-U-Therm Plus(2) Wall, Floor and Roof Panels, timber insulated structural panels for use above the damp-proof course in dwellings up to four storeys high (including room-in-roof). The panels can be used as the loadbearing inner leaf of external walls, loadbearing internal walls, double leaves of separating walls, infill panels, floor panels or pitched/flat roofing panels.

(1) Hereinafter referred to as 'Certificate'.
(2) Val-U-Therm Plus is a registered trademark.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

KEY FACTORS ASSESSED

Structural performance — the panels have adequate strength to resist the loads associated with in-service loading (see section 6).

Condensation risk — walls, floors and roofs, openings and junctions can adequately limit the risk of surface condensation (see section 7).

Thermal performance — the panels contribute to the overall thermal performance of the building construction (see section 8).

Behaviour in relation to fire — walls incorporating the panels and appropriate linings can provide sufficient fire protection (see section 10).

Sound insulation — separating walls with additional plasterboard, soundproof linings and detailing as shown in this Certificate can provide sufficient sound insulation (see section 12).

Durability — the panels will have a 60-year minimum service life provided that they are protected from damage by the external and internal finishes (see section 15).

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 3 May 2017

Brian Chamberlain
Head of Technical Excellence

Claire Curtis-Thomas
Chief Executive

The BBA is a UKAS accredited certification body – Number 113.

The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

British Board of Agrément
Bucknalls Lane
Watford
Herts WD25 9BA

tel: 01923 665300
fax: 01923 665301
clientservices@bba.star.co.uk
www.bbacerts.co.uk

Regulation:	**29**	**Condensation**
Comment:		The panels will contribute to minimising the risk of interstitial condensation. See section 7.2 of this Certificate.
Regulation:	**30**	**Stability**
Comment:		Walls, floors and roofs constructed from the panels will have sufficient strength and stiffness when designed and constructed in accordance with sections 6.1 to 6.3 and 6.5 to 6.8 of this Certificate.
Regulation:	**31**	**Disproportionate collapse**
Comment:		Walls will have adequate strength and stiffness to satisfy this Standard. See sections 6.1 to 6.3 and 6.5 to 6.8 of this Certificate.
Regulation:	**35(1)(2)(3)**	**Internal fire spread — Structure**
Comment:		The panels can be used in walls required to have a fire resistance of 60 minutes. See sections 10.1 to 10.7 of this Certificate.
Regulation:	**39(a)(i)**	**Conservation measures**
Regulation:	**40(2)**	**Target carbon dioxide emission rate**
Comment:		The panels will contribute to satisfying these Regulations. See sections 8.1, 8.2, 9.1 and 9.3 of this Certificate.
Regulation:	**49**	**Protection against sound from other parts of the building and from adjoining buildings**
Regulation:	**50**	**Protection against sound within a dwelling or room for residential purposes**
Comment:		When installed with suitable flanking elements, separating walls incorporating the panels can satisfying this Regulation. See section 12.1 of this Certificate.

Construction (Design and Management) Regulations 2015
Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

See sections: 1 *Description* (1.2) and 3 *Delivery and site handling* (3.3) of this Certificate.

Additional Information

NHBC Standards 2017

NHBC accepts the use of Val-U-Therm Plus Wall, Floor and Roof Panels, provided they are installed, used and maintained in accordance with this Certificate, in relation to *NHBC Standards*, Chapters 5.2 *Suspended ground floors*, 6.2 *External timber framed walls*, 6.4 *Timber and concrete upper floors, 7.1 Flat roofs and balconies* and 7.2 *Pitched roofs*.

Technical Specification

1 Description

1.1 Val-U-Therm Plus Wall, Floor and Roof Panels (see Figure 1) are structural elements consisting of a timber framing, internal and external sheathing of Type 3 (OSB/3) oriented strand board to BS EN 300 : 2006, and an insulation core of closed-cell, zero-rated Ozone-Depleting Potential polyurethane (PUR). The sheathing extends past the bottom rail of the panel to facilitate fixing to the soleplate and also at the top rail to allow fixing to a headbinder or ringbeam. Panels are designed with a male and female jointing system for fixing panels together, both for straight runs and at corners. The corner jointing studs are normally fixed on site to facilitate easier transportation and stacking.