

This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

Monolith - BrickPlus & StonePlus

Description of Product

This is an assessment of BrickPlus & StonePlus which can be defined as a multi-component external wall insulation and finishing system, consisting of one or more layers and/or formed components of rigid thermal insulation (EPS, PU or other) in combination with limestone brick slips (BrickPlus™) and/or window cills, door surrounds and decorative ornaments consisting of EPS core coated with limestone (StonePlus™).



Key Factors Assessed

- Mechanical Resistance & Stability
- Safety in case of Fire
- Health, Hygiene and Environmental
- Safety in Use
- Energy Economy and heat retention
- Durability serviceability and identification

Validity

This certificate was first issued on 15th December 2014 and is valid until 15th December 2018
Issue Dated 14th December 2015

Scope of Registration

The assessment of BrickPlus™/StonePlus™ relates to the use of the product for new and retrofit buildings such as dwellings and buildings with similar temperature and humidity conditions with either correctly installed masonry or natural stone cladding and lining on external cavity or solid walls, which have been designed and constructed in accordance with, but not limited to, the relevant clauses of BS 56282 and BS 82983 or any other structurally sound substrates of walls. Only those wall types are allowed where the BrickPlus™ and StonePlus™ systems are installed with the appropriate adhesive on the following substrates:

- CP board (cement particle board)
- Natural stone
- Concrete
- Masonry
- ICF (EPS)

The components should be attached to the substrate by applying the appropriate adhesive, as provided by Monolith; Installation above ground level will require mechanical fixings which are provided/(or specified) by Monolith.

BrickPlus™/StonePlus™ shall not be exposed to organic solvents or plasticisers.

The thermal resistance of BrickPlus™ panels (nominal thickness 45/110 mm) has been determined as:

- 35 mm white EPS : 1.14 m².K.W-1
- 35 mm black EPS : 1.22 m².K.W-1
- 97 mm white EPS : 3.09 m².K.W-1
- 97 mm black EPS : 3.22 m².K.W-1

The reaction to fire classification has been determined as Euroclass B – s1, d0 (BS EN 13501-1) the system does not prejudice the fire-resistance properties of the wall. Therefore, the insulation components of the system will not contribute to the development stages of a fire or present a smoke or toxic hazard.

For Scotland purposes this Registered Detail covers only the system which comprises:

Metric Brickslip

Expanded polystyrene (Kay Meltzer EPS 200)

Polyurethane adhesive (Tensopur P105) or Cement based polymer enhanced adhesive (TDS Easi-Flex)

Insulation (EPS or insulation with Reaction to fire class E or better)

Fixings (Subject to site specific testing)

Associated Stoneplus decorative elements

Conditions of Certificate

The products should be installed as per the BDA Agrément Certificate BAW 14-025/03/A.

Where BrickPlus is installed onto an existing external wall, it should be suitably protected from the effects of the weather, at its head.

Where BrickPlus is installed against a new or existing wall which contains a damp proof course and / or cavity weepholes, provisions should be installed to ensure that their integrity continues through to the outer face of the BrickPlus.

For LABC Warranty purposes:

Suitable for retrofit / refurbishment projects only as per the scope of the assessment carried out in the BDA certificate 14-025/03/A. The existing walls must be in good condition and be thick enough on their own merit to be able to resist weather ingress as detailed in BS 5628 & BS 8298.

LABC and LABSS consider that, BrickPlus & StonePlus, will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;



The Building Regulations 2010 (as amended) England & Wales

Regulation 7	Materials and Workmanship
Note:	The products are acceptable.
AD A	Structure
Note:	The products are acceptable
AD B	Fire safety
Note:	The products are acceptable
AD C	Site preparation and resistance to contaminants and moisture
Note:	The products are acceptable
AD L1B	Conservation of fuel and power
Note:	The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance of the roof structure.
Regulation 7	Materials and workmanship
Note:	The products are acceptable



The Building Regulations 2010 (as amended) England

AD L1A	Conservation of fuel & power
Note:	The products should be used in conjunction with other insulation materials to achieve the required thermal properties.



The Building Regulations 2010 (as amended) Wales

AD L1A	Conservation of fuel & power
Note:	The products should be used in conjunction with other insulation materials to achieve the required thermal properties.



The Building (Scotland) Regulations 2004 (as amended)

Technical Handbooks Domestic and Non-Domestic

Regulation 8	Durability, workmanship and fitness of materials
0.8.5:	Ways of establishing the fitness of materials
Regulation 9	Building Standards applicable to construction
	Construction shall be carried out so that the work complies with the applicable requirements of schedule 5.

Non-Regulatory Information



LABC Warranty

LABC Warranty conditionally accepts the use of Monolith BrickPlus and StonePlus, when installed and used in accordance with the Scope and Conditions of this Certificate. Visit www.labcwarranty.co.uk for our LABC Warranty Technical Manual requirements and Warranty conditions of acceptance.

Supporting Documentation

BDA Guideline – BDA Agrément®, 12th December 2013

BS 5628 Component 3:2005 Code of practice for the use of masonry: materials and components, design and workmanship BS

8298 Component 1:2010 Code of practice for the design and installation of natural stone cladding and lining. General

BS EN 12667:2001 Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Products of high and medium thermal resistance

ETAG 004:2011 – Guideline for European Technical Approval of external thermal insulation composite systems with rendering

BS 5250:2011 Code of practice for control of condensation in buildings

BS EN ISO 6946:2007 Building components and building elements. Thermal resistance and thermal transmittance. Calculation method

BR443: Conventions for U-value calculations, 2006 edition, BRE Scotland

BDA Report 0237-C-12/9 BrickPlusTM/StonePlusTM: Determination of tensile strength perpendicular to faces, 2013.09.05

BDA Report 0237-C-12/1 BrickPlusTM/StonePlusTM: Thermal shock test, 2013.06.24

BDA Report 0237-C-12/2 BrickPlusTM/StonePlusTM: Resistance to dynamic wind forces, 2013.06.24

BDA Report 0237-C-12/4 BrickPlusTM/StonePlusTM: Impact resistance, 2013.06.24

BDA Report 0237-C-12/10 BrickPlusTM/StonePlusTM: Determination of thermal resistance, 2013.08.01

BDA Report 0237-C-12/7 BrickPlusTM/StonePlusTM: Determination of ignitability, 2013.06.26

BDA Report 0237-C-12/8 BrickPlusTM/StonePlusTM: Classification using test data from reaction to fire, 2013.06.26

BDA report 11-G-0157 BrickPlusTM/StonePlusTM: Inspection visits to workshop and projects, 2013.07.17

Warrington Exova Report CR335685

Monolith Technical Reference & Fitting Guide

Exova Warrington Fire report no 335685 Reaction to fire classification –BS EN 13501- 1:2007+A1:2009

Exova Warrington Fire report no 335384 Reaction to fire tests - BS EN 13823: 2010

Exova Warrington Fire report no 342110 Ignitability tests - BS EN ISO 11924-2: 2010

BDA Agrément BAW 14-025/03/A

BDA Agrément BAW 13-028/01/A

BDA Report 0237-C-12/9 BrickPlusTM/StonePlusTM: Determination of tensile strength perpendicular to faces, 2013.09.05

BDA Report 0237-C-12/1 BrickPlusTM/StonePlusTM: Thermal shock test, 2013.06.24

BDA Report 0237-C-12/2 BrickPlusTM/StonePlusTM: Resistance to dynamic wind forces, 2013.06.24

BDA Report 0237-C-12/4 BrickPlusTM/StonePlusTM: Impact resistance, 2013.06.24

BDA Report 0237-C-12/10 BrickPlusTM/StonePlusTM: Determination of thermal resistance, 2013.08.01

BDA Report 0237-C-12/7 BrickPlusTM/StonePlusTM: Determination of ignitability, 2013.06.26

BDA Report 0237-C-12/8 BrickPlusTM/StonePlusTM: Classification using test data from reaction to fire, 2013.06.26

BDA report 11-G-0157 BrickPlusTM/StonePlusTM: Inspection visits to workshop and projects, 2013.07.17

Monolith Technical Reference & Fitting Guide

Standards detail sheets

Example u-value

Contact Information

Monolith

St. Asaph Business Park

Denbighshire

LL17 0JA

Tel: 01745 535 855

Email: info@monolithuk.co.uk

Web: www.monolithuk.co.uk