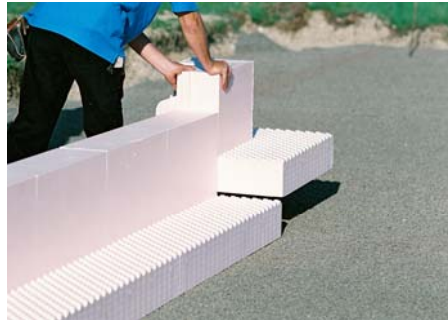


This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

## Isoquick Building System

### Description of Product

This Registered Detail relates to Isoquick EPS perimeter and ground insulation and permanent concrete form system.



### Key Factors Assessed

- Health, Hygiene and Environmental
- Safety in Use
- Energy Economy and heat retention

### Validity

This certificate was first issued on 29<sup>th</sup> September 2010 and is valid until 30<sup>th</sup> November 2018  
Issue Dated 23<sup>rd</sup> February 2018

## Scope of Registration

This Registered System relates to the Isoquick Building system for the insulation of ground floor concrete floors using EPS, including permanent thermal insulation shuttering.

## Conditions of Certificate

Refer to Deutsche Institut Fur Bautechnik (German technical building inspection institute) Certificate: Z-23.34-1643, for detailed guidance. This Certificate must remain valid for the LABC system approval to also remain valid.

Use of this system is subject to Structural Engineer's design, local site/ground conditions report, including maximum loading.

The structural stability of the "foundation" is not covered by this system approval.

The height of the building to be supported through system needs to be determined by Structural Engineer allowing for compressive strength of the system and local site conditions.

Designers need to use stress and loading data for the system in accordance with BASF Material Engineering Document 321 – Behaviour of EPS rigid foams under long term compressive stress. The maximum vertical stress of the rigid foam slabs must not exceed the rated value.

All concrete slabs must be designed by Structural Engineer and must always be fully reinforced.

Geo-textiles needs to be used around perimeter of "make up" under the system, in accordance with manufacturer's details.

Substrate needs to be reasonably level to receive the ISOQUICK system. No voids must exist between the system and substrate.

The Test Certificate assumes a non-cohesive and water permeable substrate.

If site conditions are different, effective drainage needs to be part of the Structural Engineer's design.

An Approved polymer render system will need to be applied to a suitable expanded lathe to protect the ISOQUICK system against mechanical damage in areas of high traffic or deliberate impact. The proprietary lathe system should normally be mechanically fixed to the ISOQUICK system, however, all render products used must be approved for the specific situation and applied consistent with their manufacturer's technical information and test certificate produced by a recognised national approving body.

Given the range of products available, the render product chosen will need to be accepted by the Building Control body concerned.

The system must be installed by a suitably trained/approved contractor.

Where drainage pipes or other services pass through the system, the system must be carefully cut/sealed around the services.

Damage must be minimised.

The ISOQUICK system must be used as a whole system package and not modified in any way.

Pre-formed corner units need to be used for all internal/external corners. Mitred cuts to form corners are not normally accepted unless justified by the Structural Engineer.

The quality of production/manufacture of the system must be maintained to agreed standards.

The calculation of the floor "U"-value (using the LAMBDA value of 0.0338 (2.1DiBT)) should comply with the recommendations and guidelines of both BRE – Convention for "U"-value calculations – 2006 & Section 9.1 of BSEN ISO13370.

Appropriate thermal analysis will be provided in each instance to demonstrate continued compliance with Approved Document L 2010 / 2013

LABC consider that, Isoquick Building System, 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

AD C	Resistance to Contaminants and Moisture
Note:	The products can contribute to meeting this Requirement subject to limitations detailed in Conditions section.
AD E	Resistance to Sound
Note:	The products can contribute to meeting this Requirement subject to limitations detailed in Conditions section.
AD J	Heat Producing Appliances
Note:	The products can contribute to meeting this Requirement subject to limitations detailed in Conditions section.
AD P	Electrical Safety - Dwellings
Note:	The products can contribute to meeting this Requirement subject to limitations detailed in Conditions section.



### The Building Regulations 2010 (as amended) England

AD L	Conservation of fuel and power
Note:	The products can contribute to meeting this Requirement subject to limitations detailed in Conditions section.



### The Building Regulations 2010 (as amended) Wales

AD L	Conservation of fuel and power
Note:	The products can contribute to meeting this Requirement subject to limitations detailed in Conditions section.



### The Building (Scotland) Regulations 2004 (as amended)

If you would like to discuss a specific use of the product in Scotland it will require an additional assessment under the Scottish Building Regulations and accordingly you should contact the LABSS STAS Administrator at [www.labss.org](http://www.labss.org)

## Non-Regulatory Information



### LABC Warranty

The use of the Isoquick Building System has not been assessed to meet the requirements of the LABC Warranty Technical Manual. If you would like to discuss a specific use please make an enquiry to [technical.services@labcwarranty.co.uk](mailto:technical.services@labcwarranty.co.uk)

## Supporting Documentation

Deutsche Institute Fur Bautechnik (German technical building inspection institute) Certificate: Z-23.34-1643, for detailed guidance

Perripor (BASF) low pentane product (flame retardant) B1, Din 4102

ISOQUICK Technical Data Sheet

Example structural calculations by 3E Consulting Engineers

Logix (M.Tech Consult) technical information and application for LABC system approval

Brick ledge detail (outer leaf brick/block support system)

BASF-321- Behaviour of EPS rigid foams under long-term compressive stress

## Contact Information

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