



BES 6001 Certification

FOR KOOLTHERM®, KOOLDUCT®, THERMA™, TEK® & OPTIM-R®
PRODUCTS MANUFACTURED AT KINGSPAN INSULATION
LTD'S PEMBRIDGE AND SHERBURN-IN-ELMET PLANTS



Low Energy –
Low Carbon Buildings

Introduction

The construction industry is a major consumer of resources and has a large impact on the sustainability of the UK and the wider world. BRE Global has developed a Framework Standard for the Responsible Sourcing of Construction Products (BES 6001) and associated certification scheme to manage and reduce the impacts throughout the supply chain. BES 6001 is intended to provide manufacturers and distributors with a means by which to have construction products independently assessed and certificated as being responsibly sourced. The scheme is recognised by the BRE Environmental Assessment Method (BREEAM) family of certification schemes which awards credits for construction products certificated as responsibly sourced through approved schemes.

This Technical Bulletin provides an overview of the responsible sourcing of construction products and an introduction to the responsible sourcing standard and certification scheme developed by BRE Global.

Summary

BES 6001 has been prepared to provide a framework for the assessment of responsible sourcing and to give a route to certification of construction products. The key objectives of this standard are:

- to promote responsible sourcing of construction products through the provision of a set of requirements;
- to give clear guidance on the sustainability aspects that should be addressed;
- to provide confidence that materials and products are being responsibly sourced; and
- to provide a route to obtaining credits within BREEAM family of certification schemes.

The standard sets out the requirements of BRE Global Ltd. for a product to be classified as being responsibly sourced.

The requirements of the standard provide a framework against which all construction products may be assessed. The framework comprises a number of criteria setting out the requirements of an organisation in managing the supply of construction products in accordance with a set of agreed principles of sustainability, the precise scope of which is determined by stakeholder engagement.

The requirements of the standard consist of actions to be taken to demonstrate adoption of the principles of responsible sourcing as described below.

The requirements and associated actions have been structured into three components:

- Organisational Management Requirements;
- Supply Chain Management Requirements; and
- Environmental and Social Requirements.

These components have been further broken down into subsections for which credits can be gained. The number of credits gained are converted into a rating of “Pass”, “Good”, “Very Good” or “Excellent”.

Kingspan Insulation's Certification Results

Kingspan **Kooltherm**® and Kingspan **Therma**™ products

Kingspan Insulation Ltd has been awarded a certificate of approval from BRE Global Ltd, stating that, having complied with requirements of BES 6001: Issue 3.0, Kingspan Insulation has achieved a performance rating of Excellent for the following product ranges:

- **Kingspan Kooltherm**® K-range and **Kingspan KoolDuct**® products produced at Kingspan Insulation Ltd's Pembridge manufacturing facility;
- **Kingspan Therma**™ range of products produced at Kingspan Insulation Ltd's Pembridge and Sherburn-in-Elmet manufacturing facilities; and
- **Kingspan Therma**™ and **Kingspan Kooltherm**® Cavity Closer produced at Kingspan Insulation Ltd's Sherburn-in-Elmet manufacturing facility.

Organisational Management Requirements

Requirement	Credits					Additional Credit
	1	2	3	4	5	
Responsible sourcing policy	C					
Legal compliance	C					
Quality management system	C	✓				
Supplier management system	C					

Supply Chain Management Requirements

Requirement	Credits					Additional Credit
	1	2	3	4	5	
Material traceability through the supply chain	C	✓	✓			
Environmental management systems in the supply chain	C	✓	✓	X		
Health and safety management systems in the supply chain	C	✓	✓	X		

Environmental and Social Requirements

Requirement	Credits					Additional Credit
	1	2	3	4	5	
Greenhouse gas emissions	C	✓	✓	✓	✓	
Energy use	✓					
Resource use	C	✓	✓	✓	✓	✓
Waste preventive and waste management	✓	✓	✓			✓
Water abstraction	✓	✓	✓			X
Lifecycle assessment (LCA)	C	✓	✓			
Ecotoxicity	✓					
Transport impacts	C	X	X			✓
Employment and skills	C	✓	✓			
Local communities	C	✓	✓			
Business ethics	✓					

The above equates to Kingspan Insulation receiving an "Excellent" rating for Kooltherm and Therma product ranges .

Key:
C = Compulsory

Kingspan Insulation's Certification Results

Kingspan OPTIM-R® and Kingspan TEK® products

Kingspan Insulation has achieved a performance rating of Very Good for the following product ranges:

- Kingspan OPTIM-R® vacuum insulation panels produced at Kingspan Insulation Ltd's Pembridge manufacturing 'facility and;'
- Kingspan TEK® structural insulation panels produced at Kingspan Insulation Ltd's Sherburn-In-Elmet manufacturing facility.

A full breakdown of the credits achieved by Kingspan Insulation for this are shown below.

Details of all BRE BES 6001 certifications are published on BRE's Green Book Live website. Go to www.greenbooklive.com, select schemes, then BES 6001 and search on the company name "Kingspan Insulation". Click on the appropriate Certificate No. and a copy of the relevant certificate will be displayed.

Organisational Management Requirements

Requirement	Credits					Additional Credit
	1	2	3	4	5	
Responsible sourcing policy	C					
Legal compliance	C					
Quality management system	C	✓				
Supplier management system	C					

Supply Chain Management Requirements

Requirement	Credits					Additional Credit
	1	2	3	4	5	
Material traceability through the supply chain	C	✓	✓			
Environmental management systems in the supply chain	C	✓	✓	✓		
Health and safety management systems in the supply chain	C	✓	✓	✓		

Environmental and Social Requirements

Requirement	Credits					Additional Credit
	1	2	3	4	5	
Greenhouse gas emissions	C	✓	✓	✓	✓	
Energy use	✓					
Resource use	C	✓	✓	✓	✓	✓
Waste preventive and waste management	✓	✓	✓			✓
Water abstraction	✓	✓	✓			X
Lifecycle assessment (LCA)	C	X	X			
Ecotoxicity	✓					
Transport impacts	C	X	X			✓
Employment and skills	C	✓	✓			
Local communities	C	✓	✓			
Business ethics	✓					

The above equates to Kingspan Insulation receiving a 'Very Good' rating for OPTIM-R and TEK.

Key:

C = Compulsory  = TEK only

Principles of Responsible Sourcing

General

The purchasing decisions of a single organisation can affect society and the environment well beyond the immediate impact of its own operations. Responsible sourcing involves the promotion and support of broader-scale adoption of responsible practices throughout the supply chain. This can stimulate demand for socially and environmentally-preferable products.

There is no comprehensive list of what constitutes 'responsible practice' when selecting and approving suppliers. The principles described below reflect what is considered good practice and it is logically and ethically consistent that the principles apply equally to the organisation making these purchasing decisions as well as its suppliers.

The principles reflect current expectations, however other issues may come to be seen as important in the future and it is expected the BES 6001 standard will evolve to reflect these changes.

Ethics

Recognise the need to adopt and apply standards of ethical behaviour appropriate to the purpose and activities of the organisation.

Legal compliance

Comply with all applicable laws and regulations.

Management systems

Have systems in place to operate in a legal, efficient and financially sustainable manner with continual improvement in the management of quality, health and safety, the environment and human resources.

Supply chain management

Communicate and work constructively with the supply chain to deliver sustainable policies and practices.

Stakeholder engagement

Identify stakeholders affected by the activities of the organisation and its supply chains and be responsive to their needs.

Complaints and prosecutions

Operate with transparency and record and report all complaints and prosecutions and associated corrective actions.

Fundamental rights at work

Respect international norms concerning human rights and labour practices and recognise fundamental rights at work including the abolition of child labour, forced or compulsory labour, the rights of freedom of association and collective bargaining, and the elimination of discrimination.

Health and safety

Operate in a responsible manner to protect employees, contractors and visitors.

Climate change and energy

Use energy efficiently in the production of materials and products and minimise the emission of greenhouse gases associated with these processes. Reduce fossil fuel consumption and utilise renewable sources of energy.

Resource use

Recognise the need to use all materials in the most appropriate and sustainable manner.

Site stewardship

Be responsible stewards of sites used by preventing pollution and recognising the importance of national heritage, ecological value and biodiversity during use and after the end of life of each site.

Water

Use water efficiently to minimise demand on potable water supplies, and treat process water and site run-off effectively to mitigate against pollution risks.

Waste prevention and management

Manage all waste streams effectively by adopting the waste reduction hierarchy and minimise waste incinerated and disposed of to landfill without energy or material recovery.

Transport impacts

Recognise the social and environmental impacts of transportation and the need to adopt appropriate strategies to reduce adverse impacts.

Employment and skills

Continue to support sustainable communities by providing employment and economic activity through fair operating practices, and recognise the importance of developing a skilled and competent workforce.

Local communities

Liaise effectively with the local community and strive to develop mutual understanding and respect.

Contribution to the built environment

Develop products that improve the quality and sustainability of the built environment.

Contact Details

Customer Service

For quotations, order placement and details of despatches, contact the Kingspan Insulation Customer Service Department:

Tel: +44 (0) 1544 388 601

Fax: +44 (0) 1544 388 888

email: customerservice@kingspaninsulation.co.uk

Literature & Samples

Kingspan Insulation produces a comprehensive range of technical literature for designers, specifiers, contractors, stockists and end users. The literature contains clear 'user friendly' advice on typical design; design considerations; thermal properties; sitework and product data.

Available as a complete Design Manual or as individual product brochures, Kingspan Insulation technical literature is an essential specification tool. For copies, go to the Kingspan Insulation website or contact the Kingspan Insulation Marketing Department:

Tel: +44 (0) 1544 387 384

Fax: +44 (0) 1544 387 484

email: literature@kingspaninsulation.co.uk

www.kingspaninsulation.co.uk/literature

Tapered Roofing

For technical guidance, quotations, order placement and details of despatches contact the Kingspan Insulation Tapered Roofing Department:

Tel: +44 (0) 1544 387 383

Fax: +44 (0) 1544 387 483

email: tapered@kingspaninsulation.co.uk

Technical Advisory Service

Kingspan Insulation supports all of its products with a comprehensive Technical Advisory Service for designers, specifiers, stockists and contractors.

This includes a computer-aided service designed to give fast, accurate technical advice upon receipt of your project specification. Calculations can be carried out to provide U-values, condensation / dew point risk, required insulation thicknesses etc... Thereafter any number of permutations can be provided to help you achieve your desired targets.

The Kingspan Insulation online U-value Calculator is also available for pitched and flat roofs, walls and floors. It contains calculations carried out by persons approved under the Scheme for Calculation Competency Part 1 – U-value and condensation risk. The tool is free, easy to use and requires no registration.



The Kingspan Insulation Technical Service Department can also give general application advice and advice on design detailing and fixing etc... Site surveys are also undertaken as appropriate.

The Kingspan Insulation British Technical Service Department operates under a management system certified to the BBA Scheme for Assessing the Competency of Persons to Undertake U-value and Condensation Risk Calculations.



For U-value calculations, go to the Kingspan Insulation website or contact the Kingspan Insulation Technical Service Department:

Tel: +44 (0) 1544 387 382

Fax: +44 (0) 1544 387 482

email: technical@kingspaninsulation.co.uk

www.uvalue-calculator.co.uk

General Enquiries

For all other enquiries:

Tel: +44 (0) 1544 388 601

Fax: +44 (0) 1544 388 888

email: info@kingspaninsulation.co.uk

Kingspan Insulation Ltd. reserves the right to amend product specifications without prior notice. Product thicknesses shown in this document should not be taken as being available ex-stock and reference should be made to the current Kingspan Insulation price-list or advice sought from Kingspan Insulation's Customer Service Department (see above left). The information, technical details and fixing instructions etc. included in this literature are given in good faith and apply to uses described. Recommendations for use should be verified for suitability and compliance with actual requirements, specifications and any applicable laws and regulations. For other applications or conditions of use, Kingspan Insulation offers a Technical Advisory Service (see above), the advice of which should be sought for uses of Kingspan Insulation products that are not specifically described herein. Please check that your copy of this literature is current by contacting the Kingspan Insulation Marketing Department (see left).

Kingspan Insulation Ltd is a member of:

The National Insulation Association (NIA)



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