

REACTION TO FIRE - CLASSIFICATION REPORT EUI-18-000100C

1. INTRODUCTION

This classification report defines the classification assigned to Kooltherm K15 in accordance with the procedures given in EN 13501-1:2007 + A1:2009.

**REACTION TO FIRE CLASSIFICATION IN ACCORDANCE WITH
EN 13501-1:2007 + A1:2009**

Sponsor : KINGSPAN INSULATION LTD
Bree Industrial Estate, Castleblayney
Co Monagh
AK75 X966, Ireland

Prepared by: EFFECTIS UK/Ireland

Notified Body No: 2822

Product name: Kooltherm K15

Classification report No.: EUI-18-000100C

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2. DESCRIPTION OF THE PRODUCT

2.1. GENERAL

The product, Kooltherm K15, is defined as a factory-made phenolic core insulation product (according to the product standard BS EN 13166:2012+A2:2016 - Thermal insulation products for buildings - Factory made phenolic foam (PF) products – Specification and BS EN 15715 : 2009 – Thermal insulation products. Instructions for mounting and fixing for reaction to fire testing. Factory made products).

2.2. PRODUCT DESCRIPTION

The product, Kooltherm K15, is described below or is described in the reports provided in support of classification listed in 3.1.

Product description	
Trade mark	Kooltherm K15
Manufacturer / supplier A utiliser hors CE unquement	KINGSPAN INSULATION LTD
Composition	Phenolic foam core with reinforced scrim foil facings on both sides
Thickness	25 - 150 mm
Mass per unit area	1 – 6 kg/m ²
Density	40 kg/m ³
Color	Pink/brown core with silver facing layers
Other information	-

3. REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

3.1. REPORTS

Name of Laboratory	Name of sponsor	Report ref. no	Test method and date field of application rules and date
EFFECTIS UK/IRELAND	KINGSPAN INSULATION LTD	EUI-18-SF-000100C	BS EN ISO 11925-2: 2010
EFFECTIS UK/IRELAND	KINGSPAN INSULATION LTD	EUI-18-SBI-000100C	BS EN 13823:2010+A1: 2014

3.2. RESULTS

Test method and test number	Parameter	No. Tests ^{a)}	Results	
			Continuous parameter - mean (m)	Compliance with parameters
First method BS EN 13823:2010+A1:2014 EUI-18-SBI-000100C	FIGRA _{0,2 MJ} (W/s)	4	297.43	-
	FIGRA _{0,4 MJ} (W/s)		168.34	-
	THR _{600 s} (MJ)		2.79	-
	LFS		-	Compliant
	SMOGRA		15.63	-
	TSP _{600s} (m ²)		57.96	-
	Flaming droplets or particles		-	Compliant
Second method BS EN ISO 11925-2:2010 EUI-18-SF-000100C	F _s	12	-	Compliant
	Filter paper		-	Compliant

a) Not for extended application

(-) means not applicable

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with EN 13501-1:2007 + A1:2009.

4.2. CLASSIFICATION

The product, Kooltherm K15, in relation to its reaction to fire behaviour is classified:

C

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire behaviour	Smoke production			Flaming droplets		
C	-	s	2	,	d	0

i.e. C - s2, d0

Reaction to fire classification	C- s2, d0
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4.3. FIELD OF APPLICATION

According to the standard BS EN 15715: 2009, this classification is valid for the following product parameters:

Thickness	Valid for 25 – 150 mm total thickness of product
Density	Valid for density of 40 (± 6) kg/m ³
Type of product/facings	Valid for tested type of product only (same formulation)
Air gap	Valid with and without air gaps
Joints	Valid for all profiles edge finishing
Size and positioning	Valid for all product sizes – Valid for arrangement as tested
Fixing of test specimen	Valid for all types of fixing
Substrate	Valid with substrate of at least A2-s1,d0 class and 652.5 +/-50 kg/m ³ density

5. LIMITATIONS

This classification document does not represent type approval or certification of the product.

“The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Regulation.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.”

SIGNED

APPROVED



Konstantinos CHOTZOGLOU
Project leader



Damien FLAMMIER
Technical Testing Supervisor