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## Technical Insulation

Great Britain & Ireland

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# Ductwork Insulation – Construction Products Regulation, CE & UKCA Marking

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### Construction Products Regulation

The general requirements of the EU Construction Product Regulation (EU-CPR) are maintained in the UK-CPR, which lays down harmonised rules for the marketing of construction products and allows comparison of the performance of products from manufacturers in different countries through benchmark specifications for individual product types.

Construction products including thermal insulation traded within the UK and between the UK and the EU are subject to the EU-UK trade deal. While Northern Ireland remains within the EU single market for goods, Great Britain (i.e. England, Scotland and Wales) has left the single market and introduced national rules.

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### Great Britain

Currently either UKCA marking or CE marking are accepted. In preparation to the end of recognition of the CE mark in Great Britain, from 1 January 2021 construction products need to affix the UK Conformity Assessed mark (UKCA) to indicate that they conform to GB legislation, and must use UK conformity assessment bodies. The CE mark and EU27 test data can still be used but the current intention is to end its recognition in GB by 1 January 2023.

Current rules will remain in place until legislation is laid to end recognition of the CE mark.

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### Northern Ireland

In order to be placed on the Northern Ireland market, products must meet Harmonised European Standards (hEN) and bear either the CE marking or both the CE marking and UKCA marking, or both the CE marking and UK(NI) indication. EU notified body have to be used to assess the conformity of products before being placed on the market.

Goods with the UKCA mark alone are not accepted on the Northern Ireland market.

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### Harmonised European Standards (hEN) and UK Designated Standards

European Standards become Harmonised European standards (hEN) when their references are published on the Official Journal of the European Union. hEN can be used to demonstrate that a product complies with relevant EU legislation.

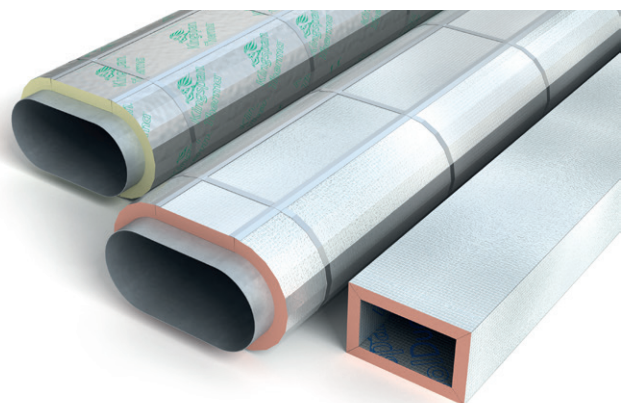
After the EU-UK deal, all existing hEN became UK 'designated standards' which are recognised by government and published on the UK Government database. Today harmonised European standards and UK designated standards are identical, but they might deviate in time.

### Declaration of Performance (DoP) and CE Marking / UKCA Marking

The manufacturer of a construction product covered by a hEN or Designated Standard, or, in the absence of a relevant Standard, covered by a voluntary European Technical Assessment (ETA) or UK Technical Assessment (UKTA) is required by the CPR to draw up a DoP.

The aim is to ensure that the manufacturer publicly declares the performance of its product, taking responsibility for the conformity of the product to the reference Standard / Technical Assessment. CE Marking / UKCA Marking verifies that the manufacturer has strictly followed all the applicable procedures for drawing up the DoP and that the DoP is accurate and reliable.

Building Services insulation of the type commonly used in the UK HVAC market are already covered by hENs and UK 'designated standards' and so have to be CE Marked / UKCA Marked.



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## CE Marking / UKCA Marking of Duct Insulation manufactured by Kingspan

We are currently applying the CE mark on our duct insulation products; our intention is to start using the UKCA as additional mark for our products by 1 January 2023.

Kingspan KoolDuct® panels and Kingspan Kooltherm® Duct Insulation are CE Marked in conformance with BS EN 14314: 2009+A1: 2013 (Thermal insulation products for building equipment and industrial installations – Factory made phenolic foam (PF products – Specification).

The above standard is the current and correct British and European Standard to assess phenolic duct insulation.

There is a published 2015 version of the above standard, but this is not yet harmonised nor designated, so it cannot be used for conformity marking.

A Declaration of Performance (DoP) is available to download from [www.kingspanductwork.co.uk](http://www.kingspanductwork.co.uk).

Note that there is another harmonised standard BS EN 13166: 2012+A2: 2016 which relates to phenolic insulation used in construction and specifically excludes the use of insulation on building equipment and industrial installations, so it should not be used to assess phenolic duct insulation. (BS EN 13166: 2012+A2: 2016 Thermal insulation products for buildings. Factory made phenolic foam (PF) products. Specification).

Kingspan Therma™ Duct Insulation is CE Marked in conformance with BS EN 14308: 2009+A1: 2013 (Thermal insulation products for building equipment and industrial installations. Factory made rigid polyurethane foam (PUR) and polyisocyanurate foam (PIR) products. Specification).

The above standard is the current and correct British and European Standard to assess PIR and PUR duct insulation.

There is a published 2015 version of the above standard, but this is not yet harmonised nor designated, so it cannot be used for conformity marking.

Note that there is another harmonised standard BS EN 13165: 2012+A2: 2016 which relates to PIR and PUR foam insulation used in construction and specifically excludes the use of insulation on building equipment and industrial installations, so it should not be used to assess PIR and PUR duct insulation. (BS EN 13165: 2012+A2: 2016 Thermal insulation products for buildings. Factory made rigid polyurethane foam (PU) products. Specification).

## Aged Thermal Conductivity

The mentioned harmonised standards / designated standards have introduced a new method of assessing thermal conductivity into the market by introducing a requirement for the declared thermal conductivity value to be based on the aged value;

- The aged value represents the time-averaged value over 25 years;
- It has to be declared at various temperatures, covering the product service temperature range;
- The declared values shall be in accordance with the requirements of the product standards.

The aged values of thermal conductivity of our products is declared in the DoPs published on our website [www.kingspanductwork.co.uk](http://www.kingspanductwork.co.uk).

When comparing duct insulation products, it is therefore essential that thermal conductivity values should be compared on a like for like basis, and for example with aged values declared at the same temperature and in accordance with the correct product standard.

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## Fire and Smoke Performance

### Reaction to Fire

The Euroclass system categorises construction products into one of seven reaction to fire classes ranging from the highest (best) class of A1 to the lowest (worst) class of F, depending upon their performance in application, in defined tests or a defined combination of tests.

### Smoke Production

In addition to the reaction to fire classes A to F, products subjected to the Single Burning Item (SBI) test are also classified into one of three smoke production sub-classes ranging from the highest (best) class of s1 to the lowest (worst) class of s3.

### Flaming Droplets / Particles

The final sub-classification for construction products subjected to the SBI test is for flaming droplets / particles which is also divided up into one of three classes ranging from the highest (best) class of d0 to the lowest (worst) class of d2.

The reaction to fire classification for Kingspan Kooltherm®, Kingspan KoolDuct® and Kingspan Therma™ Duct is declared within the DoP of each product which can be found on our website [www.kingspanductwork.co.uk](http://www.kingspanductwork.co.uk).

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# Contact Details

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