



„THE KEYMARK –
Tested and certified
once, accepted
everywhere.“

KEYMARK Certification of thermal insulation products for industrial applications.

„Insulation VDI/KEYMARK“ – quality for Europe. In today's environment, insulating materials for technical plant systems make a significant contribution towards preserving energy resources. Given the need for consistent product quality and reliable product performance, the insulating materials industry decided over 30 years ago to establish its own voluntary quality assurance system on the basis of VDI 2055, which was widened to incorporate the European quality mark KEYMARK.

The marks highlight the difference.

When it comes to product choice, suppliers of insulation products and insulation companies focus not only on the performance capability of the insulation material, but also on its reliability. Certificates and marks from an independent Certification Body aid the purchasing decision and give the buyer the reassurance that they have acquired a quality product.

Europe is also coming together on product markings. The KEYMARK, which is the European quality mark for products and services, opens the door to the markets of Europe for international businesses. Combined with the VDI's „Überwacht nach VDI 2055“ mark, which is widely recognised, the certified quality products offer you the competitive advantage of setting yourself apart amongst the ranks of suppliers. Market your product across Europe under a standardised quality mark.



Basis for European certification.

The European KEYMARK Scheme for thermal insulation products was developed with the involvement of manufacturers, Testing Laboratories, Certification Bodies, the European insulation product industry and end users. It is based on the European product standards EN 14303 to EN 14309, EN 14313, EN 14314, EN 15501, EN 14319-1, EN 14320-1, EN 15599-1 and EN 15600-1. These European standards specify harmonised quality requirements for the insulation products. The processes and requirements for assessing the conformity of the insulation products with the corresponding European product standard are also governed by EN 13172. Products which are tested, certified and surveilled in accordance with the standards

(internal and external surveillance) may display the internationally recognised „Überwacht nach VDI 2055“ mark together with the KEYMARK.

There are lot of good reasons for a VDI/KEYMARK certification.

- Reduction in administration and testing costs
- Smoothing access to the markets of Europe
- Setting yourself apart in the competitive environment
- Gaining the trust of markets and people through quality marks which make the difference visible
- A guide and an aid for your customers in the decision-making process through certified product and process quality
- Increased customer satisfaction
- Enhanced image for the company and for the insulation product industry
- As an independent third party, empowered Certification Bodies confirms your quality statement with the internationally recognised „Insulation VDI/KEYMARK“.



Content of the certification.

The „Insulation VDI/KEYMARK“ is awarded on the basis of the standardised European KEYMARK Scheme for technical insulation products. It is based on the harmonised process for KEYMARK certification for products and services, introduced by CEN and CENELEC for Europe, which are based on European standards, as well as the content of and experiences with the established certification mark in accordance with VDI 2055.

Checks are conducted within the scope of product testing to determine whether the values indicated by the manufacturer on the product data sheet (primary and special properties in accordance with the relevant product standard) match the insulation product properties; consequently, the product data sheet plays a pivotal role. The samples for initial testing and for the audit testing are taken from ongoing production or from the manufacturer’s warehouse. The following quality criteria are incorporated into insulation material testing, for example:

- Thermal conductivity
- Maximum Service Temperature
- Apparent density
- Dimensions
- Corrosive substances (AS quality)
- Water absorption
- Airflow resistivity
- Water vapour diffusion resistance
- Compressive behaviour
- Fire behaviour

In order to obtain the „Insulation VDI/KEYMARK“, the manufacturer also has to maintain a quality assurance system (product-related FPC) based on EN ISO 9001. The effectiveness of this FPC is assessed during routine factory inspections.

The „Insulation VDI/KEYMARK“ is only awarded to those products which have demonstrated their compliance with the product standard by passing tests in an accredited and registered Testing

Laboratory (bound by contract to CB) followed by an independent evaluation.

The „Insulation VDI/KEYMARK“ certificate is valid for 2 years. If the annual audit tests and the check of the FPC are successfully conducted it will be renewed.

Requirements for involved Third Parties.

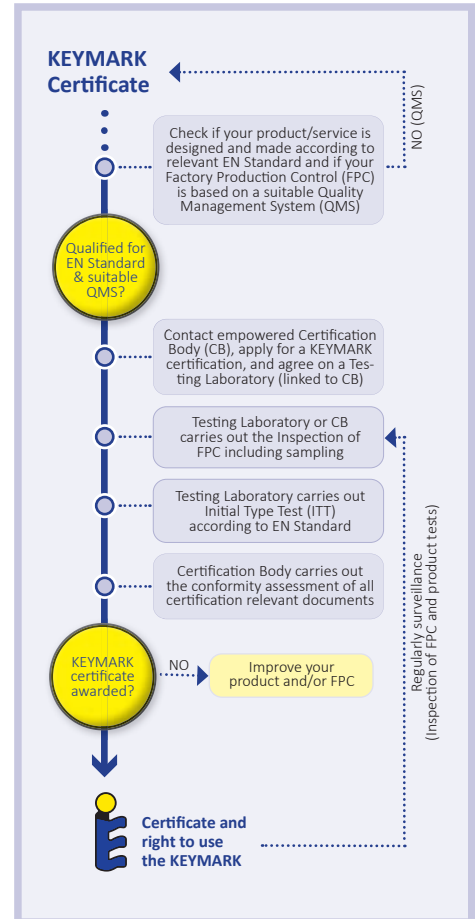
Within the scope of the harmonisation of the European market, testing, inspection and certification has to satisfy high requirements in terms of independence, neutrality, and organisation. The Third Parties have to demonstrate their competence and be accredited to perform testing, inspection and certification in compliance with EN ISO/IEC 17025 or EN ISO/IEC 17065. Certification bodies which seek to award the KEYMARK and the VDI mark must also undertake a formal empowerment process and receive authorisation to do this by KMO (KEYMARK Management Organization) on behalf of CEN.

The KEYMARK Scheme, including all the documentation of relevance to this, is developed further through the European Certification Committee QAC (Quality Assurance Committee) as well as through specific sub-committees in respect of the themes of

- Testing Laboratories
- Certification Bodies
- ...

Openness and transparency.

Details of all the companies which have been awarded certificates, including the technical data sheet for the certified product, can be viewed on the KEYMARK website, which is regularly updated. The documentation, which is of relevance to the certification, such as the KEYMARK Scheme, is available there.



CONTACT

SDG-5/QAC secretariat
Holger Stegger

VDI-Gesellschaft Energie und Umwelt (VDI-GEU)

Phone: +49 211 6214128
Email: stegger@vdi.de
Website: www.vdi.de/geu

KEYMARK Management Organization (KMO)
DIN CERTCO GmbH
Phone: +49 30 75621131
Email: keymark@dincertco.de
Website: www.dincertco.de