



FMI Fachverband Mineralwolleindustrie e.V.

# Keymark Conference

## Demands of Mineral Wool Manufacturers



- Berlin, october 2016

# FMI -Association overview

**ROCKWOOL®**  
DÄMHT PERFEKT & BRENNT NICHT

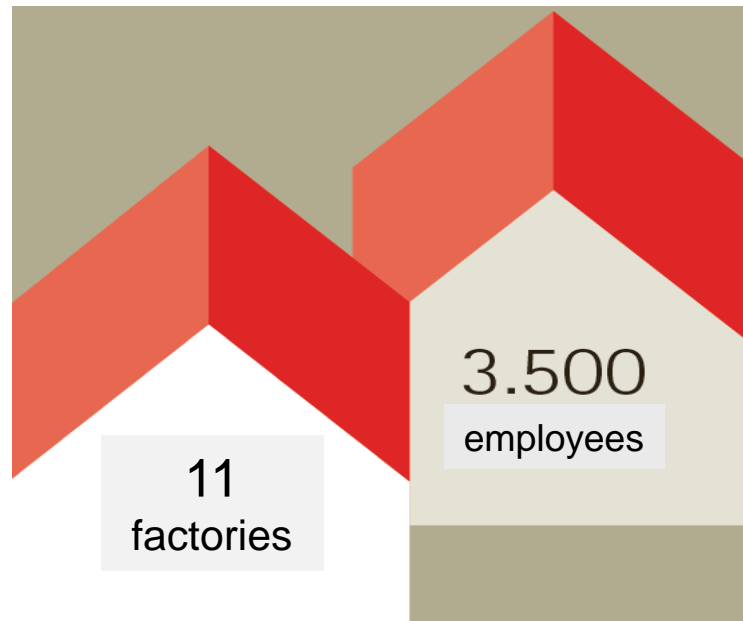
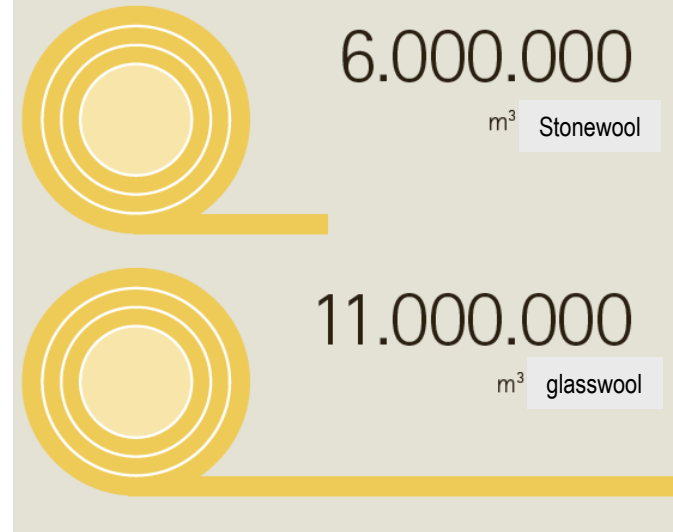
**KNAUF INSULATION**  
Energie sparen, jetzt!

**ISOVER**  
SAINT-GOBAIN

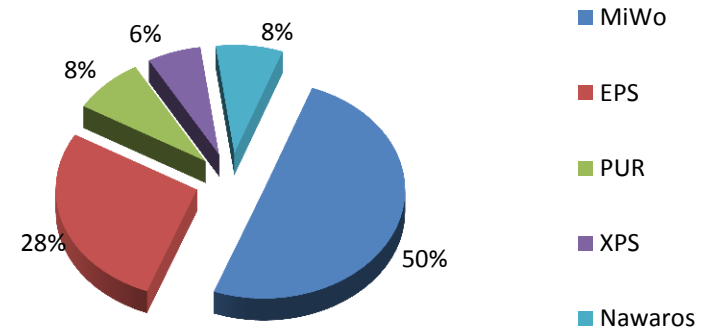


**climowool**

einfach besser dämmen  
**WIEGLA**



market share 2013 (m<sup>3</sup>)



# Mineral wool applications in Germany

## Thermal & acoustical insulation and fire protection in:

- buildings



## industrial



## Other applications: horticulture



## shipbuilding



## Transport (automotive)





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# Quality assurance systems

until now





DIN EN 13162: MW building products  
 DIN EN 14303: MW technical products  
 DIN EN 14064-1: MW in situ products

AVCP: Assessment and Verification of Constancy of Performance:

reaction to fire : System 1 (3th party testing)  
 others: System 3 (manufacturer)

Essential characteristics in DOP & on product label:

f.ex. Declared thermal conductivity  $\lambda_D$

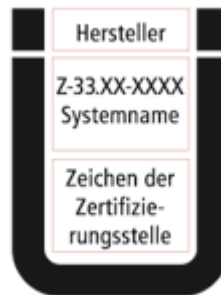


- abZ: general building approval  
(allgemeine bauaufsichtliche Zulassung)
  
- Quality assurance contract:
  - Regular control visit by accredited body with samples taken & tested
  
  - For Mineral wool:
    - Thermal conductivity
      - limit value requirement (Grenzwert)
  
    - Glowing combustion
      - (Glimmen)

## Germany – additional national requirements

- 2x per year samples taken and tested by accredited laboratory
- By mutual contract with certification body:
  - Not only
    - Thermal conductivity &
    - Glowing combustion
  - But
    - All relevant (declared) properties

Label





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# Quality assurance systems

now





Stop of all additional national requirements:



Uncertainty of market participants in Germany

Reaction of associations of architects, planners, building industry, craftsmans:

- Loss of general building approvals (abZ) and Ü-sign
  
- Assumed loss of
  - Easy verification of usability
  - 3th party monitoring system
  - => loss of product conformity
  
- Fear of
  - Increased responsibility and liability for product determination and selection
  - Imports of building products, not performing to spec.
    - => loss of product quality



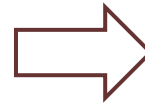
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# Quality assurance systems

From now on:



## Mineral wool products:



• Ü disappears

Keymark arrives

- Voluntary quality assurance system and certification scheme for harmonized products
  - MW for technical insulation DIN EN 14303 - implemented since 2015
  - MW for building insulation DIN EN 13162 – implemented now
  - MW for in situ insulation DIN EN 14064 –1 – implemented now

## Why Keymark?



- approved by EU Commission
  - owned by CEN & CENELEC,
  - managed by DIN Certco
  - operated by empowered certification bodies and accredited testing institutes
- CPR does not allow additional national requirements and national certification schemes and marks = no „national“ 3th party testing
  - European certification scheme for harmonized products
    - 3th party control and testing by independent accredited testing institutes
    - 3th party certification of conformity with european standards
      - EN 13162 building products
      - EN 14303 technical products
      - EN 14064-1 in situ products



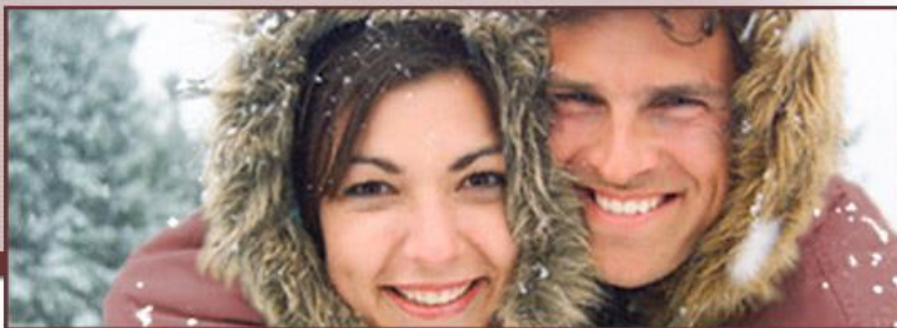
## Why Keymark

- All essential properties, for which a performance is declared will be tested
  
- Addittional german requirement Glowing combustion (Glimmen)
  - Will be included in the DOP based on testing standard EN 16733





- Quality certification scheme for harmonized products
  - Demonstrates conformity with european standards to the market
  - Yearly 3th party
    - Assessement of production control ✓
    - Testing of products ✓
 of all declared properties
  - Mineral Wool:
    - Technical Products: EN 14303 ✓
    - Building Products: EN 13162 ✓
    - In Situ Products: EN 14064-1 ✓
- Keymark is the new quality mark for mineral wool insulation in Germany



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# Thank you for your attention



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