KNAUFINSULATION OEM Solutions

www.oem.knaufinsulation.com

DRS FIRE BOARD BSI 5760

October 2019

Insulation core for door sets requiring higher fire resistance

DESCRIPTION

Knauf insulation DRS FIRE BOARD BSI 5760 (DRS FB BSI 5760) is a highdensity rock mineral wool board (5,7 kg/m²), specifically designed and used as an insulation core in doors, whose main purpose is to provide fire and thermal protection in compliance with EN 16034 (harmonised standard for fire-rated door sets).

The mineral fibres are bound with a minimum of organic binder, ensuring board integrity at high temperatures.

The board may be further processed (ensuring minimum dimensional deviations, surface grinding, dust removal, cutting of specific shapes) upon request.

PERFORMANCE

Fire performance
Classified as non-combustible Euroclass A1

Maximum service temperature
DRS FIRE BOARD BSI 5760 has a maximum service temperature of 650°C

Thermal insulation
Excellent thermal conductivity λ_d = 0,035 W/mK

BENEFITS

- Excellent fire protection
- Maintains integrity at high temperatures – material melting point above 1,000 °C
- Good mechanical properties
- Non-combustibility
- Dimensional stability
- Thermal and sound insulation properties
- AS Quality (upon request)

APPLICATION

Owing to its particular properties, the board is a highly convenient means of insulating **steel fire-resistant door sets** that require **high fire resistance and temperature tolerances** and are specified by European standards as:

- **EI30 fire resistant doors**
- **EI60 fire resistant doors (stable door construction needed)**
- **EI90 fire resistant doors (if combined with other fire resistant materials)**

STANDARDS

Technical properties of Knauf Insulation DRS FIRE BOARD BSI 5760 are declared in accordance with EN 14303.

Knauf Insulation DRS FIRE BOARD BSI 5760 is manufactured in accordance with ISO 9001 Quality Management Systems, ISO 14001 Environmental Management Systems, ISO 50001 Energy Management Systems and OHSAS 18001 Occupational Health and Safety Management Systems as certified by TÜV Nord.

CERTIFICATES

RAL EUCEB CE

DOP code: 04309LPCPR
www.dopki.com

challenge. create. care.

KNAUFINSULATION OEM Solutions

www.oem.knaufinsulation.com

DRS FIRE BOARD BSI 5760

October 2019

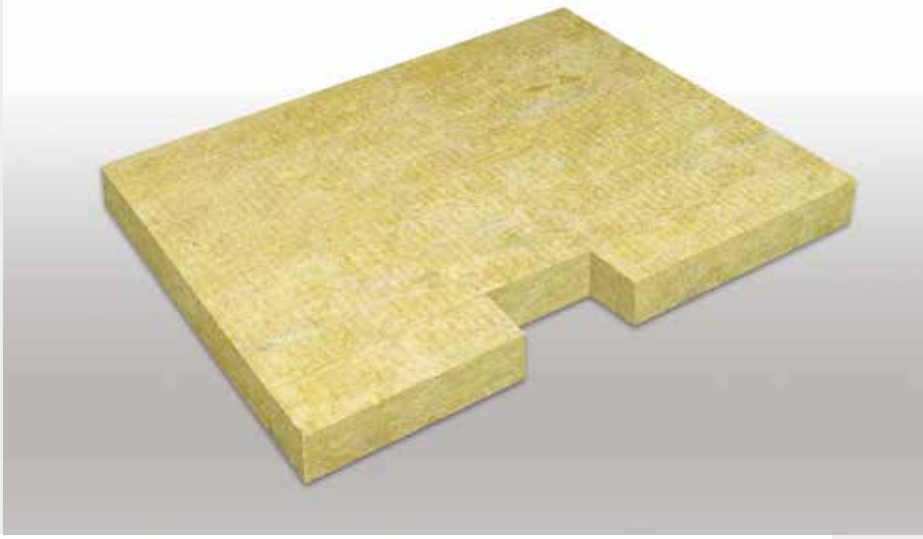
TECHNICAL PROPERTIES

Characteristics	Symbol	Value								Unit	Standard
Density	-	min. 95								kg/m^3	-
Reaction to fire	-	Euroclass A1								-	EN 13501-1
Melting point	-	> 1000								°C	DIN 4102/T17
Water vapour diffusion resistance factor	μ	1								-	EN ISO 10456
Specific heat capacity	c_p	1030								J/kgK	-
Thermal conductivity - declared (10 °C)	λ_d	0.035								°C	EN 12667
Water soluble chloride ions (on request)	-	≤10								mg/kg	EN 13468
Thermal conductivity in relation to temperature	σ	50	100	200	300	400	500	600	650	°C	EN 20354
	λ	0.040	0.045	0.062	0.085	0.114	0.151	0.195	0.219	W/mK	

HANDLING & STORAGE

Knauf Insulation DRS FIRE BOARD BSI 5760 is typically packed on a wooden pallet. Slabs are covered with a PE thermo shrink hood or wrapped twice with stretch foil, which is designed for short-term protection only (with alternative packaging possible upon agreement and according to technical capacity). For longer-term protection on site, we recommend storing the product either indoors, or under a cover and off the ground, for a maximum of up to 12 months. If covered storage is not available, products can be stored outside (open-air-storage), for a maximum of up to one month. Outdoor storage is not recommended during particularly humid months with large fluctuations in temperature. If the material becomes damp on location, ensure the moisture evaporates before placing such slabs into a manufacturing process, as water content can affect the performance of the final product.

The performance of DRS FIRE BOARD BSI 5760 depends on the customer's manufacturing process and its final application. Individual customers must establish, optimize and control their manufacturing process to ensure the material meets the requirements of their manufacturing process and their final product.



Knauf Insulation, d.o.o.
Trata 32, 4220 Škofja Loka, Slovenia
Tel: +386 (0)4 5114 100
Fax: +386 (0)4 5114 319
E-mail: oem@knaufinsulation.com
For more info visit: **www.oem.knaufinsulation.com**

challenge.
create.
care.