

PLASTERBOARDS

Knauf plasterboards are manufactured from high quality gypsum, with a purity of not less than 95%. This makes the plasterboards light, strong and easy to cut. Special additives provide the different boards with excellent specific characteristics.

High quality paper liners provide an excellent backing for plaster or for direct decoration. Stringent quality control procedures apply to the manufacturing process, in full compliance with ISO 9002 and BS1230: Part 1: 1985.

Plasterboards - General Information

Limitations

Plasterboards are not suitable for areas which are subjected to extremes of temperature and humidity.

Temperatures over 50°C can induce a change of state in the plasterboard which would reduce its physical performance and serviceability.

Humidity over 90% (95% If using Knauf moisture resistant boards) or subjection to excessive moisture will also reduce the serviceability of the plasterboard.

Storage on Site

Plasterboards are supplied on timber bearers. Packs should be lifted with a fork-lift truck and stacked not more than one-high on a flat surface to preserve stability. They should be stored in a clean dry environment.

Note: If handling manually, consider risks as required by Manual Handling Regulations 1992.

Health & Safety

Knauf plasterboards must be handled with care; boards must be carried on their edges. When cutting, ensure adequate ventilation.

Knauf Plasterboards are not classified as hazardous under CHIP2 Regulations 1994 and the Control of Substances Hazardous to Health (COSHH) Regulations 1994.

For the latest full Health & Safety datasheets on the specific products, please contact our literature freephone number.

Performance

Fire performance

Gypsum is non-combustible. So, by definition, any of the Knauf plasterboard range is acknowledged to contribute to the fire resistance of the structure in which it is used.

Knauf plasterboards are designated as Class O materials under the Building Regulations 1991, Approved document B. They also meet BS476: Part 6: 1989, with fire propagation index I=12 and under BS476: Part 7: 1987, surface spread of flame, are

designated Class 1. Specific Knauf Drywall Systems are fire tested in accordance with BS476: Part 20: 1987.

Acoustic Performance

All Knauf plasterboards offer excellent sound reduction qualities, whether used in drywall systems for ceilings, wall linings, partitions or separating walls.

Plasterboard, as a single element, is not normally given a sound reduction figure. Specific Knauf Drywall Systems are tested in full accordance with BS EN ISO 140-3:1995 and the values calculated in accordance with BS EN 717-1:1996

Vapour Performance

Vapour check plasterboards have been tested in accordance with BS3177: 1959 and exceed the minimum requirement of 15MN s/g to meet this standard.

12.5mm Knauf Vapourshield has a water vapour resistance of 78MN s/g.

Sitework

Knauf plasterboards must be installed in full accordance with Knauf's recommendations and those of BS8212: 1995 and BS8000: Part 8: 1994.

Plasterboard Edge Profiles

STANDARD BOARDS

Knauf Wallboard

Knauf Wallboard is plasterboard with an ivory paper face ideally suited to receive a plaster finish or for direct decoration. Knauf Wallboard complies fully with the requirements of BS1230: Part 1: 1985 and is categorised as Type 1.

Knauf Plasterboards have a conductivity figure of $k = 0.16 \text{ W/mK}$

Thermal Resistance:

9.5mm = $0.06\text{m}^2 \text{ K/W}$

12.5mm = $0.08\text{m}^2 \text{ K/W}$

15.0mm = $0.09\text{m}^2 \text{ K/W}$

Knauf Plank

Knauf Plank is plasterboard with an ivory paper face ideally suited to receive a plaster finish, or for direct decoration. Knauf Plank complies fully with the requirements of BS1230: Part 1: 1985 and is categorised as Type 1.

Knauf Plank has a Thermal Conductivity figure of $k = 0.16 \text{ W/mK}$

Thermal Resistance:

19.0mm = $0.12\text{m}^2 \text{ K/W}$

Knauf Baseboard

Knauf Baseboard is plasterboard with two grey paper faces to be used as a base for plastering. Knauf Baseboard complies fully with the requirements of BS1230: Part 2: 1985 and is categorised as Type 6.

Note: Knauf Baseboard is available in vapour check grade.

Knauf Baseboards has a Thermal Conductivity figure of $k = 0.16 \text{ W/mK}$.

Thermal Resistance:
 $9.5\text{mm} = 0.06\text{m}^2 \text{ K/W}$

HIGH PERFORMANCE BOARDS

Knauf Roomform Wallboard

Knauf Roomform Wallboard is designed to be used with the Knauf Roomform System. It has a high quality white paper liner and reinforcing fibres in the core for extra strength and durability. It complies with BS1230: Part 1: 1985 and is categorised as Type 1.

Knauf Roomform has a Thermal Conductivity figure of $k = 0.24\text{W/mK}$.

Thermal Resistance:
 $12.5\text{mm} = 0.05\text{m}^2 \text{ K/W}$

Knauf Roomform Moistureshield

Combining the superb qualities of Knauf Roomform Wallboard with the added benefit of moisture resistance. Ideal for bathrooms, toilets etc. It complies with BS1230: Part 1: 1985 and is categorised as Type 3.

Knauf Roomform Moistureshield has a Thermal Conductivity figure of $k = 0.16\text{W/mK}$.

Thermal Resistance:
 $12.5\text{mm} = 0.08\text{m}^2 \text{ K/W}$

Knauf Vapourshield

Knauf Vapourshield has a metallised polyester foil laminated on the grey paper back. Vapour check plasterboards comply fully to BS1230: Part 1: 1985 and categorised as Type 1.

Vapour Check Performance:
 $12.5\text{mm Vapourshield} = 78.5 \text{ MNs/g}$

Knauf Vapourshield has a Thermal Conductivity figure of $k = 0.16 \text{ W/mK}$.

Thermal Resistance:
 $9.5\text{mm} = 0.06\text{m}^2 \text{ K/W}$

12.5mm = 0.07m² K/W
15.0mm = 0.09m² K/W

Knauf Fireshield

Knauf Fireshield offers superior fire protection and complies fully with the requirements of BS1230: Part 1: 1985 and is categorised as Type 5.

Knauf Fireshield has a Thermal Conductivity figure of k= 0.24 W/mK .

Thermal Resistance:
12.5mm = 0.05m² K/W
15.0mm = 0.06m² K/W

Note: Knauf Fireshield is also available in a vapour check grade

Knauf Moistureshield

Knauf Moistureshield is a high performance plasterboard for use in internal areas of high humidity and temporary external exposure. Complies fully to BS1230: Part 1: 1985 and is categorised as Type 3.

Knauf Moistureshield has a Thermal Conductivity figure of k = 0.24W/mK.

Thermal Resistance:
12.5mm = 0.08m² K/W

For 15mm use Knauf Sound Moistureshield

Knauf Fire Moistureshield

Knauf Fire Moistureshield offers both superior fire protection and moisture resistant qualities. It complies with BS1230: Part 1: 1985 and is categorised as Types 3, 4 & 5.

Knauf Moistureshield has a Thermal Conductivity figure of k= 0.24 W/mK.

Thermal Resistance:
12.5mm = 0.05m² K/W
15.0mm = 0.06m² K/W

Knauf Sound Moistureshield

Knauf Sound Moistureshield offers both enhanced acoustic performance and moisture resistant qualities. It complies fully with BS1230: Part 1: 1985 and is categorised as Types 1 & 3. Note: All sound Moistureshield is supplied in one tonne pallets.

Knauf Sound Moistureshield has a Thermal Conductivity figure of k= 0.24 W/mK.

Thermal Resistance:
12.5mm = 0.05m² K/W
15.0mm = 0.06m² K/W

Knauf Core Board

Knauf Core Board is especially designed to be used in conjunction with Knauf Shaftwall systems. It has both fire and moisture resistant qualities and complies with BS1230: Part 1: 1985 and is categorised as Types 3, 4 and 5.

Knauf Core Board has a Thermal Conductivity figure of $k = 0.24\text{W/mK}$.

Thermal Resistance:
19mm = $0.08\text{m}^2 \text{K/W}$

Knauf Denseshield

Knauf Denseshield is an impact resistant plasterboard offering toughness, durability and excellent load carrying capacity. It complies fully to BS1230: Part 1:1985 and is categorised as Type 5.

Note: Knauf Denseshield is available in vapour check grade.

Knauf Denseshield has a Thermal Conductivity figure of $k = 0.24\text{W/mK}$.

Thermal Resistance:
12.5mm = $0.05\text{m}^2 \text{K/W}$
15.0mm = $0.06\text{m}^2 \text{K/W}$

Knauf Soundshield

Knauf Soundshield is designed for use in areas where sound reduction is of particular importance. Its high mass helps absorb sound energy, giving enhanced acoustic performance to Knauf Drywall Systems. It complies with BS1230: Part 1: 1985 and is categorised as Type 1.

Knauf Soundshield has a Thermal Conductivity figure of $k = 0.24\text{W/mK}$.

Thermal Resistance:
12.5mm = $0.05\text{m}^2 \text{K/W}$
15.0mm = $0.06\text{m}^2 \text{K/W}$

ACOUSTIC BOARDS

Knauf Apertura Perforated Plasterboards

Knauf Apertura Perforated Plasterboards are a range of perforated plasterboards supplied backed with an acoustic fleece in either black or white. They are supplied with four sharp-cut edges to enable a unique seamless finish to be achieved when jointed with Knauf Uniflott.

Knauf Apertura Patterned Plasterboards

Knauf Apertura Patterned Plasterboards are a range of patterned plasterboards supplied backed with an acoustic fibre fleece in either black or white. They are available in two different designs and should be jointed using Knauf Uniflott.