HEALTH AND ENVIRONMENTAL PROTECTION

The incorporation of insulation material from mineral wool makes it possible to build healthy and comfortable living spaces as its properties improve the microclimate in a room and, at the same time, ensure excellent thermal, sound and fire protection. Products are tested according to Directives 97/69/EC, for which they were granted the »Test Certificate of Bio-solubility«, demonstrating their health safety. Knauf Insulation products are also ecologically oriented, as they reduce the consumption of thermal energy sources, thereby reducing environmental pollution. It is also of great importance that the production procedure of mineral wool is carried out in a closed circuit, i.e. production process waste is recycled in briquette manufacturing and then returned back to the production line.

As part of our policy of continuous product development, we reserve the right to revise specifications without notice. The information given in the brochure is correct to the best of our knowledge. It provides general information only and users should verify whether the products described are suitable for their specific requirements.

NATURAL AND ENVIRONMENT-FRIENDLY SOLUTIONS FOR SOUND BARRIER SYSTEMS

Due to increased environmental awareness, many producers of sound barrier systems aim to be more environmentally friendly and use sound barriers as a growing medium for different types of plants in order to mitigate noise within a confined space and to make the barriers more aesthetically pleasing.

Due to its characteristics, KNAUF INSULATION RSB GREEN PRODUCTS are an excellent solution for green ecological noise barrier protection. Products combine the sound insulation and absorption properties of rock mineral wool fibers with the potential of using them as a growing medium for different types of plants of the same line.

The benefits of using our rock mineral wool as a growing medium instead of soil in noise barriers are:

- Excellent sound absorption properties
- Excellent noise insulation properties
- Good support to plant roots
- High water absorption
- Excellent water evacuation – reduced watering frequency
- Better soil aeration
- Stronger root/plant growth
- Excellent sound absorption properties
- Excellent noise insulation properties
- Good support to plant roots
- High water absorption
- Excellent water evacuation – reduced watering frequency
- Better soil aeration
- Stronger root/plant growth

KNAUF INSULATION RSB GREEN CUBES
KNAUF INSULATION RSB GREEN FLOCKS

Rock mineral cubes or flocks used as a high-quality water absorbent growing medium and soil or board enhancement product.

DESCRIPTION

Knauf Insulation RSB Green Cubes or RSB Green Flocks are a bio-soluble water absorbent growing medium made of virgin rock mineral wool. RSB Green Cubes and RSB Green Flocks can be used primarily as a soil or rock mineral board enhancement product in green noise barriers.

APPLICATION

- Used alone as a sound insulation/absorption and growing medium in green sound barriers.
- Used with other growing media (soil, coconut fibre, peat) to improve water absorption, water storage capacity and reduction of noise barrier.

STANDARD DIMENSIONS

RSB Green Cubes
- Size: 10 – 20 mm
- Colour: grey/green

RSB Green Flocks
- Size: 3 – 20 mm
- Colour: grey/green
- Packaging: 20 kg per bag/12 or 24 bags per pallet

BENEFITS

- Excellent sound absorption
- Excellent noise insulation
- Excellent water absorption and redissolution characteristics
- No contamination
- Unaltered fire behaviour
- Improved water drainage capability
- Easy to work with

Road Sound Barriers Insulation
Noise is unwanted sound. Highway traffic noise tends to be a dominant noise source in our urban and rural environments. There are three sources of traffic noise, depending on the origin: vehicle engines, tyres and aerodynamics.

A sound barrier is an exterior structure designed to protect sensitive land users from noise pollution. Sound barriers are the most effective method of reducing traffic and industrial noise sources.

Knauf Insulation rock mineral wool insulation forms an integral part of the road sound barrier. With its outstanding properties, especially with superb acoustic performance, it absorbs noise and provides noise insulation to protect people and the environment.

It is particularly suitable as a core element for sound barrier systems on roads, highways (incl. high-speed roads) and other important arteries.

We build partnerships with our clients based on high quality products, excellent service and permanent support to their development projects.

**KNAUF INSULATION RSB BOARD (RSB B) Unfaced boards for road sound barriers**

**DESCRIPTION**

Knauf Insulation RSB B are boards made of rock mineral wool. Due to their acoustic properties, they are used as core elements in road sound barriers. Boards are sound absorbing and sound insulating against noise produced by traffic or industry.

Unfaced Knauf Insulation RSB B is designed for road sound barrier systems where high levels of air flow is added separately. The dimensions of each board are customized according to the dimensions of each road sound barrier system.

**BENEFITS**

- Excellent sound absorption
- Excellent noise insulation
- Mechanical stability throughout the product's lifetime
- Hygroscopic properties help to resist weathering
- Excellent fire performance up to Euroclass A1
- Our production technology enables custom-made dimensions

**APPLICATION**

Due to their acoustic properties, boards are used in road sound barriers and other sound absorbing/insulation systems where protection against air flow is added separately.

**KNAUF INSULATION RSB BOARD GVS (RSB B GW) Insulation boards for road sound barriers exposed to extreme outside influences**

**DESCRIPTION**

Knauf Insulation RSB B GW are boards made of rock mineral wool faced with black glass fleece. Each glass fleece layer protects the mineral wool from extreme outside influences, such as air flow, rain, snow, stress, high-pressure water cleaning and stone removal.

Knauf Insulation RSB B GW provides sound absorption and insulation against noise produced by traffic or industry. The dimensions of each board are customized according to the dimensions of each road sound barrier system.

**BENEFITS**

- Excellent sound absorption
- Excellent noise insulation
- Improved air flow streaming resistance
- Mechanical stability throughout the product's lifetime
- Hygroscopic properties help to resist weathering
- Excellent fire performance up to Euroclass A1
- Our production technology enables custom-made dimensions

**APPLICATION**

Due to their acoustic properties, boards are used in road sound barriers and other sound absorbing/insulation systems where exposure to extreme outside influences.

**KNAUF INSULATION RSB BOARD GVS (RSB B GW) Insulation boards for road sound barriers exposed to extreme outside influences**

**DESCRIPTION**

Knauf Insulation RSB B GW are boards made of rock mineral wool faced with black glass fleece. Each glass fleece layer protects the mineral wool from extreme outside influences, such as air flow, rain, snow, stress, high-pressure water cleaning and stone removal.

Knauf Insulation RSB B GW provides sound absorption and insulation against noise produced by traffic or industry. The dimensions of each board are customized according to the dimensions of each road sound barrier system.

**BENEFITS**

- Excellent sound absorption
- Excellent noise insulation
- Improved air flow streaming resistance
- Mechanical stability throughout the product's lifetime
- Hygroscopic properties help to resist weathering
- Excellent fire performance up to Euroclass A1
- Our production technology enables custom-made dimensions
Noise is unwanted sound. Highway traffic noise tends to be a dominant noise source in our urban and rural environments. There are three sources of traffic noise, depending on the origin: vehicle engine, tyres and aerodynamics.

A sound barrier is an exterior structure designed to protect sensitive land users from noise pollution. Sound barriers are the most effective method of reducing traffic and industrial noise sources.

Knauf Insulation rock mineral wool insulation forms an integral part of the road sound barrier. With its outstanding properties, especially with superb acoustic performance, it absorbs noise and provides noise insulation to protect people and the environment.

It is particularly suitable as a core element for sound barrier systems on roads, highways (incl. high-speed roads) and other important applications. We build partnerships with our clients based on high quality products, excellent service and permanent support to their development projects.

KNAUF INSULATION RSB BOARD RSB (RSB)

Insulation boards for road sound barriers exposed to extreme outside influences

DESCRIPTION
Knauf Insulation RSB B boards made of rock mineral wool found with black glass flaxes. Each glass fibre layer protects the mineral wool from extreme outside influences. The fibres in the form of cubes and flocks are resistant to fire (Euroclass A1).

Knauf Insulation RSB GW provides sound absorption and insulation against noise produced by traffic or industry. The dimensions of each board are customized according to the dimensions of each road sound barrier system.

We provide solutions for:
- Road sound barriers made of metal
- Road sound barriers made of wood
- Other systems for sound barriers that need sound absorption core elements

APPLICATION
Due to their acoustic properties, boards made of rock mineral wool in road sound barriers and other sound absorbing/insulation systems where protection against air flow is added separately.

BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Mechanical stability throughout the product’s lifetime
- Hydrophilic properties help to resist weathering
- Reaction to fire: Euroclass A1
- Our production technology enables custom-made dimensions

KNAUF INSULATION RSB BOARD RSB GVB (RSB & GVB)

Insulation boards for road sound barriers exposed to extreme outside influences

DESCRIPTION
Knauf Insulation RSB B boards made of rock mineral wool found with black glass flaxes. Each glass fibre layer protects the mineral wool from extreme outside influences. The fibres in the form of cubes and flocks are resistant to fire (Euroclass A1).

Knauf Insulation RSB GVB provides sound absorption and insulation against noise produced by traffic or industry. The dimensions of each board are customized according to the dimensions of each road sound barrier system. Additional facing colours (besides black glass flaxes) are also available on request.

APPLICATION
Due to their acoustic properties, board made of rock mineral wool in road sound barriers and other sound absorbing/insulation systems where protection against air flow is added separately.

BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Mechanical stability throughout the product’s lifetime
- Hydrophilic properties help to resist weathering
- Reaction to fire: Euroclass A1
- Our production technology enables custom-made dimensions

KNAUF INSULATION RSB BOARD GW (RSB & GW)

Insulation boards for road sound barriers exposed to extreme outside influences

DESCRIPTION
Knauf Insulation RSB B boards made of rock mineral wool found with black glass flaxes. Each glass fibre layer protects the mineral wool from extreme outside influences. The fibres in the form of cubes and flocks are resistant to fire (Euroclass A1).

Knauf Insulation RSB GW provides sound absorption and insulation against noise produced by traffic or industry. The dimensions of each board are customized according to the dimensions of each road sound barrier system.

APPLICATION
Due to their acoustic properties, boards made of rock mineral wool in road sound barriers and other sound absorbing/insulation systems where protection against air flow is added separately.

BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Mechanical stability throughout the product’s lifetime
- Hydrophilic properties help to resist weathering
- Reaction to fire: Euroclass A1
- Our production technology enables custom-made dimensions

REFERENCES
KNAUF INSULATION RSB BOARD RSB

Unfaced boards for road sound barriers

APPLICATION
Due to their acoustic properties, boards made of rock mineral wool in road sound barriers and other sound absorbing/insulation systems where protection against air flow is added separately.

BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Mechanical stability throughout the product’s lifetime
- Hydrophilic properties help to resist weathering
- Reaction to fire: Euroclass A1
- Our production technology enables custom-made dimensions

KNAUF INSULATION RSB BOARD GVB

Unfaced boards for road sound barriers

APPLICATION
Due to their acoustic properties, board made of rock mineral wool in road sound barriers and other sound absorbing/insulation systems where protection against air flow is added separately.

BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Mechanical stability throughout the product’s lifetime
- Hydrophilic properties help to resist weathering
- Reaction to fire: Euroclass A1
- Our production technology enables custom-made dimensions

KNAUF INSULATION RSB BOARD GW

Unfaced boards for road sound barriers

APPLICATION
Due to their acoustic properties, boards made of rock mineral wool in road sound barriers and other sound absorbing/insulation systems where protection against air flow is added separately.

BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Mechanical stability throughout the product’s lifetime
- Hydrophilic properties help to resist weathering
- Reaction to fire: Euroclass A1
- Our production technology enables custom-made dimensions

ROAD SOUND BARRIERS
Noise is unwanted sound. Highway traffic noise tends to be a dominant noise source in our urban and rural environments. There are three sources of traffic noise, depending on the origin: vehicle engines, tyres and aerodynamics.

A sound barrier is an exterior structure designed to prevent sensitive land users from noise pollution. Sound barriers are the most effective method of reducing traffic and industrial noise sources.

Knauf Insulation rock mineral wool insulation forms an integral part of the road sound barrier. With its outstanding properties, especially with superb acoustic performance, it absorbs noise and provides noise insulation to protect people and the environment.

It is particularly suitable as a core element for sound barrier systems on roads, highways (incl. high-speed rails) and other important applications.

We build partnerships with our clients based on high quality products, excellent service and permanent support to their development projects.

KNAUF INSULATION RSB BOARD (RSB B) Unfaced boards for road sound barriers

DESCRIPTION
KNAUF INSULATION RSB B are boards made of rock mineral wool. Due to their acoustic properties they are used as core elements in road sound barriers. Boards are made of sound absorbent and sound insulation against noise produced by traffic or industry.

Unfaced Knauf Insulation RSB Board is designed for road sound barrier systems where high levels of air flow is added separately. The dimensions of each board are customized according to the dimensions of each road sound barrier system.

BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Mechanical stability throughout the product’s lifetime
- Hydrophilic properties help to resist weathering
- Resistant to fire: Euroclass A1
- Our production technology enables cut-to-made dimensions

APPLICATION
Due to their acoustic properties RSB boards are used in road sound barriers and other sound absorbing/insulation systems where protection against air flow is added separately.

KNAUF INSULATION RSB BOARD GW (RSB B GW) Insulation boards for road sound barriers exposed to extreme outside influences

DESCRIPTION
KNAUF INSULATION RSB B GW are boards made of rock mineral wool faced with black glass fleece. Each glass fleece layer protects the mineral wool insulation core from the extreme outside influences such as air flow, stresses, high-pressure water cleaning and snow removal.

Knauf Insulation RSB B GW provides sound absorption and insulation against noise produced by traffic or industry. The dimensions of each board are customized according to the dimensions of each road sound barrier system.

BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Mechanical stability throughout the product’s lifetime
- Hydrophilic properties help to resist weathering
- Resistant to fire: Euroclass A1
- Excellent sound absorption and insulation against noise produced by traffic or industry
- Our production technology enables cut-to-made dimensions

APPLICATION
Due to their acoustic properties RSB boards are used in road sound barriers and other sound absorbing/insulation systems where protection against air flow is added separately.

KNAUF INSULATION RSB BOARD GVB (RSB B GVB) Insulation boards for road sound barriers exposed to outside influences

DESCRIPTION
KNAUF INSULATION RSB B GVB are boards made of rock mineral wool faced with black glass fleece. Each glass fibre layer protects the mineral wool insulation core from the extreme outside influences such as air flow, stresses, high-pressure water cleaning and snow removal.

Knauf Insulation RSB B GVB provides sound absorbent and insulation against noise produced by traffic or industry. The dimensions of each board are customised according to the dimensions of each road sound barrier system.

BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Mechanical stability throughout the product’s lifetime
- Hydrophilic properties help to resist weathering
- Resistant to fire: Euroclass A1
- Our production technology enables cut-to-made dimensions

APPLICATION
Due to their acoustic properties RSB boards are used as core elements in road sound barriers and other sound absorbing/insulation systems.
HEALTH AND ENVIRONMENTAL PROTECTION

The incorporation of insulation material from mineral wool makes it possible to build healthy and comfortable living spaces as its properties improve the microclimate in a room and, at the same time ensure excellent thermal, sound and fire protection. Products are tested according to Directives 97/69/EC, for which they were granted the »Test Certificate of Bio-solubility«, demonstrating their health safety. Knauf Insulation products are also ecologically oriented, as they reduce the consumption of thermal energy sources, thereby reducing environmental pollution. It is also of great importance that the production procedure of mineral wool is carried out in a closed circuit, i.e. production process waste is recycled in briquette manufacturing and then returned back to the production line.

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NATURAL AND ENVIRONMENT-FRIENDLY SOLUTIONS FOR SOUND BARRIER SYSTEMS

Due to increased environmental awareness many producers of sound barrier systems aim to be more environmentally friendly and use sound barriers as a growing medium for different types of plants in order to mitigate noise within a confined space and to make the barriers more aesthetically pleasing.

Due to its characteristics KNAUF INSULATION RSB GREEN PRODUCTS are an excellent solution for green/eco-friendly noise barrier protection. Products combine the superb sound absorption and insulation properties of rock mineral wool fibers with the possibility of using them as a growing medium for different types of plants at the same time.

The benefits of using our rock mineral wool as a growing medium instead of soil in noise barriers are:
- Excellent acoustic absorption properties
- Excellent noise reduction properties
- Air-permeable structure
- High water absorption
- Excellent water retention — reduced watering frequency
- Better soil aeration
- Stronger root/plant growth

KNAUF INSULATION RSB GREEN CUBES
KNAUF INSULATION RSB GREEN FLOCKS
Rock mineral cubes or flocks used as a high-quality water absorbent growing medium and soil or board enhancement product

DESCRIPTION
Knauf Insulation RSB Green Cubes or RSB Green Flocks are a bio-soluable water absorbent, water storage and soil or rock mineral board enhancement product. RSB Green Cubes and RSB Green Flocks can be used primarily as a soil or rock mineral sound insulation product in green noise barriers.

APPLICATION
- Used alone as a sound insulation/absorption and growing medium in green sound barriers
- Used after growing media (soil, mineral fibres, peat) to improve water absorption, water storage capacity and oxygenation of green sound barriers.

STANDARD DIMENSIONS
RSB Green Cubes
- Size 10 – 20 mm
- Colour: grey/green
- Packaging: 20 kg per bag/12 or 24 bags per pallet

RSB Green Flocks
- Size 3 – 20 mm
- Colour: grey/green
- Packaging:
- Phone: +386 (0)4 5114 000
- Fax: +386 (0)4 5114 179
- E-mail: oem≤knaufinsulation.com

www.oem.knaufinsulation.com

KNAUF INSULATION RSB GREEN CUBES
KNAUF INSULATION RSB GREEN FLOCKS
Rock mineral cubes or flocks used as a high-quality water absorbent growing medium and soil or board enhancement product
HEALTH AND ENVIRONMENTAL PROTECTION

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NATURAL AND ENVIRONMENT-FRIENDLY SOLUTIONS FOR SOUND BARRIER SYSTEMS

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Due to its characteristics KNAUF INSULATION RSB GREEN PRODUCTS are an excellent solution for green/ecological noise protection barriers. Products combine the superb sound absorbency and insulation properties of rock mineral wool fibers with the possibility of using them as a growing medium for different types of plants at the same time.

The benefits of using our rock mineral wool as a growing medium instead of soil in noise barriers are:

- Excellent sound absorption properties
- Excellent noise insulation properties
- Excellent water absorption characteristics
- High water absorption
- Excellent water retention – reduced watering frequency
- Better soil aeration
- Stronger root/plant growth
- Easy to work with
- Improved water drainage capability

KNAUF INSULATION RSB GREEN CUBES
KNAUF INSULATION RSB GREEN FLOCKS
Rock mineral cubes or flocks used as a high-quality water absorbent growing medium and soil or board enhancement product

APPLICATION
- Used alone as a sound insulation/absorbent and growing medium in green sound barriers.
- Used as a growing medium for a wide range of plants and flowers.
- Used as a soil or board enhancement product in noise barriers.

STANDARD DIMENSIONS

Knauf Insulation RSB Green Cubes
- Size: 15 – 20 mm
- Colour: grey/green
- Packaging: 30 kg per bag

Knauf Insulation RSB Green Flocks
- Size: 3 – 20 mm
- Colour: grey/green
- Packaging: 12 or 24 bags per pallet

BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Excellent water absorption characteristics
- No contamination
- Easy to work with
- Improved water drainage capability
- Easy to work with

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Due to increased environmental awareness many producers of sound barrier systems are looking to be more environmentally friendly and use sound barriers as a growing medium for different types of plants in order to mitigate noise within a confined space and make the barriers more aesthetically pleasing.

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- Stronger root/plant growth
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KNAUF INSULATION RSB GREEN FLOCKS
Rock mineral cubes or flocks used as a high-quality water absorbent growing medium and soil or board enhancement product

APPLICATION
- Used alone as a sound insulation/absorbent and growing medium in green sound barriers.
- Used as a growing medium for a wide range of plants and flowers.
- Used as a soil or board enhancement product in noise barriers.

STANDARD DIMENSIONS

Knauf Insulation RSB Green Cubes
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- Colour: grey/green
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Knauf Insulation RSB Green Flocks
- Size: 3 – 20 mm
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BENEFITS
- Excellent sound absorption
- Excellent noise insulation
- Excellent water absorption characteristics
- No contamination
- Easy to work with
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