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.

KNAUF INSULATION PBE BOARD SPECIAL (PBE BSP)
Contoured strips cut out of boards with horizontally-oriented fibres

DESCRIPTION
KNAUF INSULATION PBE BSP are trapeze contoured strips cut out of rock mineral wool boards with horizontally-oriented fibres. PBE Board Special is also available as a board prepared to cut-out trapeze strips.

PREFERENCES
- Available as board or as cut-to-size trapeze strips
- Fire-resistant - melting point above 1,000°C
- Non-combustibility
- Dimensional stability

APPLICATION
- PBE Board Special in the form of a board are the most convenient products for roof sandwich panel producers which have their own trapeze cutting equipment integrated into their production process.
- Cut-to-size trapezes are products prepared to be cut-out of mineral wool boards with horizontally-oriented fibres. PBE Board Special is also available as a board prepared to cut-out trapeze strips.

TECHNICAL PROPERTIES
- Reaction to fire: Euroclass A1
- Product customized according to needs of the customer
Prefabricated Building Element Insulation

KNAUF INSULATION PBE BOARD (PBE B)
Insulation boards with horizontally-oriented fibres

DESCRIPTION
KNAUF INSULATION PBE B are rock mineral wood boards with horizontally-oriented fibres. Several types of PBE Boards are available to meet different performance levels (Basic, Premium, High and Supreme). PBE Boards are cut from PBE boards. PBE Lamellas are ready-to-use (no cutting, no waste). They are the most convenient product for direct introduction into sandwich panels.

TECHNICAL PROPERTIES
- Fire-resistant - melting point above 1,000°C
- Excellent acoustic properties
- Good thermal insulation properties
- Excellent mechanical properties
- Dimensional stability

APPLICATION
- Boards are ready-to-use (no cutting, no waste)
- Excellent acoustic properties
- Good thermal insulation properties
- Reaction to fire: Euroclass A1

TECHNICAL PROPERTIES
- Excellent mechanical properties
- Thermal conductivity: 0.039 W/mK
- Reaction to fire: Euroclass A1

STANDARD DIMENSIONS OF KNAUF INSULATION PBE L

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40, 60, 100</td>
<td>80 - 200</td>
<td>800 - 1,300</td>
</tr>
</tbody>
</table>

We provide customized solutions for:
- Façade elements
- Roof elements
- Partition walls

Prefabricated building elements are widely used in construction of non-residential buildings. Energy efficiency, low noise pollution and fire safety are key requirements which determine the design of such buildings. Rock mineral wool sandwich panels are the most convenient solution for meeting all of those requirements. KNAUF Insulation rock mineral wool is widely used as the core of sandwich panels owing to its excellent fire resistance, non-combustibility, thermal and sound insulation properties. Due to advanced mechanical properties, our products are cost effective solutions for even the most demanding constructions.

We build partnership through high quality products, excellent service and permanent support to your development projects.

KNAUF INSULATION PBE LAMELLA (PBE L)
Insulation products cut from PBE Boards

DESCRIPTION
KNAUF INSULATION PBE L are rock mineral wood products cut from PBE Boards. Several types of lamellas are available to meet different performance levels (Basic, Premium, High and Supreme).

TECHNICAL PROPERTIES
- Fire-resistant - melting point above 1,000°C
- Excellent acoustic properties
- Good thermal insulation properties
- Excellent mechanical properties
- Dimensional stability

APPLICATION
- Boards are ready-to-use (no cutting, no waste)
- Excellent acoustic properties
- Good thermal insulation properties
- Reaction to fire: Euroclass A1

TECHNICAL PROPERTIES
- Excellent mechanical properties
- Thermal conductivity: 0.039 W/mK
- Reaction to fire: Euroclass A1

STANDARD DIMENSIONS OF KNAUF INSULATION PBE L

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40, 60, 100</td>
<td>80 - 200</td>
<td>800 - 1,300</td>
</tr>
</tbody>
</table>

We provide customized solutions for:
- Façade elements
- Roof elements
- Partition walls

KNAUF INSULATION PREFABRICATED BUILDING ELEMENTS SANDWICH PANELS PRODUCTS.

MAIN PROPERTIES
- Thermal Insulation Properties
- Excellent thermal conductivity value
- Non-Combustibility
- High-quality Euroclass A1 fire classification according to European standard (flash point above 1,000°C)
- Superior Acoustic Performance: due to the open fibrous structure rock mineral wool has the ability to absorb and reduce high sound levels
- Energy Saving Material: for reduced energy bills and CO2 emissions
- Vapor Permeability: because of the fibrous structure, rock mineral wool is permeable to vapour
- Water Repellence: in cases where permanently waterproof
- Highly sustainable: non-hazardous to personal health and the environment. Rock mineral wool is free from CFCs, HCFCs and any other material with ozone depletion potential in their manufacture and content and represents no known potential in their manufacture and content and represents no known
- Durability

Prefabricated building elements are made of rock mineral wool and are prepared to comply with all of the requirements for their use.

1. Reaction to fire: Euroclass A1
2. Energy saving material
3. Permanent stability
4. Non-combustibility
5. High acoustic properties
6. Highly durable
7. Highly sustainable
8. Non-hazardous to personal health and the environment

APPLICATION
- For direct introduction into sandwich panels
- PBE L products replace the need for a lamella cutting machine in the customer’s manufacturing process, making it more flexible. They are the most convenient product for direct introduction into sandwich panels.

STANDARD DIMENSIONS OF KNAUF INSULATION PBE L

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40, 60, 100</td>
<td>80 - 200</td>
<td>800 - 1,300</td>
</tr>
</tbody>
</table>

KNAUF INSULATION PBE BOARD (PBE B)
Insulation boards with horizontally-oriented fibres

Several types of PBE Boards are available to meet different performance levels (Basic, Premium, High and Supreme). PBE Boards are cut from PBE boards. PBE Lamellas are ready-to-use (no cutting, no waste). They are the most convenient product for direct introduction into sandwich panels.

We provide customized solutions for:
- Façade elements
- Roof elements
- Partition walls

Prefabricated building elements are made of rock mineral wool and are prepared to comply with all of the requirements for their use.

1. Reaction to fire: Euroclass A1
2. Energy saving material
3. Permanent stability
4. Non-combustibility
5. High acoustic properties
6. Highly durable
7. Highly sustainable
8. Non-hazardous to personal health and the environment

APPLICATION
- For direct introduction into sandwich panels
- PBE L products replace the need for a lamella cutting machine in the customer’s manufacturing process, making it more flexible. They are the most convenient product for direct introduction into sandwich panels.

STANDARD DIMENSIONS OF KNAUF INSULATION PBE L

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40, 60, 100</td>
<td>80 - 200</td>
<td>800 - 1,300</td>
</tr>
</tbody>
</table>