Discover the benefits of PAVATEX wood-fibre insulation.
Welcome to the number 1 in woodfibre insulation.

As Europe’s leading manufacturer of high-quality woodfibre insulation materials, we aim to provide the best possible solutions for the most demanding situations you face. Our system solutions for the modern building shell therefore continue to set new standards. This is our driving force. It has been for many years and continues to be so in the future.

One example: In 2013 our factory in Golbey in North-East France started operation as the highest-performing and most environmentally-friendly woodfibre production plant in Europe. Beyond that the factory operates as a think tank for innovation, helping us to meet marketing and customer requirements even more effectively. This means you can feel safe in the knowledge that the industry pioneers will always have your interests at heart.

Enjoy getting to know the number 1!

Regards, Martin Brettenthaler,
CEO of the PAVATEX group

This building was modernised and given a limber façade in Bad Dürrnberg in Austria. PAVATEX woodfibre insulation was used for energy-efficient insulation of the building fabric.

The Kalkbreite residential- and commercial building in Zurich is a perfect example of commercial and ecological building. The exterior was insulated with DIFFUTHERM woodfibre insulation boards.

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Whether an actual application, personal service or innovative products: Our partners and users can confidently rely on us. We call this the PAVATEX experience, which we try to describe to you further here. But the best will be to experience it in practice!

Our commitment as number 1 – PAVATEX added values
We take your ideas and desires and create products which set new standards in economy and productivity. That means added value for those who work with them and those who buy them. Genuine premium products with a fair price-performance ratio.

Reliable service – by experienced expert advisors
Whether by telephone, in writing or on site, we are always by your side and we are not satisfied until you are. We are as competent with technical as with sales issues. The continuous training of our field service technicians is an integral part of our company philosophy. It helps us to meet the highest standards in customer service. Get in touch - we look forward to talking with you.

High quality system solutions – for sustained customer satisfaction.
We define top quality from the perspective of our users and so our production is directed towards specific, defined quality standards. This is always with the aim of offering customers the best possible insulation solution for their home. We also offer maximum ease of use due to intelligently-matched system solutions. Every job presents a new challenge? We can solve every insulation problem – guaranteed!

«PAVATEX insulation systems guarantee sustainable and reliable vapour-permeable insulation for the whole building and guarantee an excellent quality of life.»
Volker Brombacher | Technology Centre manager

PAVATEX products give our customers the satisfying feeling of relying on top quality for their own four walls.

PAVATEX offers personal service which is directed at your requirements.

Detached house in Upper Swabia, Germany
Strengths you can depend on: our production characteristics

The performance spectrum of PAVATEX thermal- and sealing systems is unique. They protect against cold, heat, noise and fire hazards. They are simultaneously vapour-permeable yet airtight so they are the ideal components for the modern building shell. Our systems guarantee a particularly balanced and healthy indoor climate and are particularly sustainable.

**Product characteristics**

**Strengths you can depend on:**

**Production characteristics**

- **Vapour permeability**
  - Woodfibre boards are highly vapour-permeable. Harmful vapour can escape through the building fabric to the outside. Constructions with PAVATEX woodfibre boards are therefore more immune to damage through moisture.

- **Sustainable and environmentally friendly**
  - Made from wood – a sustainable raw material – PAVATEX insulation materials stand for a responsible use of natural resources, low energy use and a positive CO₂ balance. Thanks to the natural constituents, PAVATEX products can be recycled, composted or even incinerated for energy production.

- **Heat protection in summer**
  - Thanks to their high thermal storage capacity, PAVATEX insulating materials can store heat through the day and release it later in the cooler night-time hours. This keeps rooms pleasantly cool, especially on hot days.

- **Healthy interior climate**
  - Selected materials and natural raw materials ensure a high quality of life and a healthy indoor climate. PAVATEX uses only low-emission wood in the production, which does not emit health-hazardous substances.

- **Air-tightness**
  - Optimally-matched and tested sealing systems provide an airtight building shell and prevent heat loss and humidity damage.

- **Swiss Engineering. Made by PAVATEX.**
Invisible but essential: thermal protection in winter.

PAVATEX has developed perfectly matched insulation systems for roof, walls and floors. Woodfibre insulation materials have outstanding heat-insulating and heat-storage capacity which guarantee comprehensive thermal protection for the whole building.

The following guiding principles should be applied for all insulation projects: All building components must be considered. You need to insulate not only the outer walls and the roof structure but also the topmost ceiling and the floor slab. There are optimum PAVATEX insulating solutions for all roof structures, façade types and all types of inner walls. Woodfibre insulation systems achieve very low U-values. This means that the heat loss through components or building perimeter surfaces is reduced. Heating costs can therefore be lowered in the winter.

An optimally insulated roof has the same temperature as the surroundings so that the snow remains on the roof.

Costly heat is lost in the winter through a poorly-insulated roof. A sure sign of poor insulation is snow melting on a roof.

The wall and roof insulation ensures that the heat remains inside in winter.

Cold outside, warm inside

Thermal imaging cameras can record the weak points in a building, where energy is lost. Warm areas coloured red and orange in poorly or uninsulated areas indicate that the surface temperature of the façade or roof is significantly greater than the outside temperature. This is evidence that costly heat is escaping from the inside to the outside. An optimally-insulated building shell in contrast has practically the same temperature as the surroundings and appears in correspondingly violet and blue tones. The insulation creates a temperature gradient through the entire wall or roof thickness, with low temperatures outside and high temperatures inside the rooms.

The benefits at a glance:
- Consistent protection of the roof, walls and floor
- Reduced heating costs, protection against humidity damage
- Can be used for many types of building and façade
- Low-energy or passive house compatible

The offices of Naturalia-Bau GmbH in Meran are so well insulated with PAVATEX that even in summer, temperatures do not rise above 24°C. The offices of Naturalia-Bau GmbH in Meran is so well insulated with PAVATEX that even in summer, temperatures do not rise above 24°C.

During summer, PAVATEX insulation systems achieve considerably better results in heat protection than other insulation materials. The insulation systems from PAVATEX ensure that the room temperatures remain pleasantly cool and offer natural air conditioning.

PAVATEX woodfibre boards have a comparatively high specific density and can therefore store heat (specific heat-storage capacity) at concurrently low thermal conductivity. This means PAVATEX woodfibre boards can store heat and release it later.

The results of the German Association for Insulation Materials made of Sustainable Raw Materials (ADNR) clearly confirm that Woodfibre products like PAVATEX perform significantly better than other insulating materials in providing effective thermal or heat protection in summer. With their high specific density and high specific thermal capacity they achieve an extremely low TAV value (9%) and an ideal decrement delay of twelve hours. The ADNR calculations are based on an identical roof construction (wood - 13 percent, thermal coefficient 0.26 W/m²K) with equivalent insulation thickness (180 mm or 160 + 20 mm) and the same thermal conductivity (0.40).

Decrement delay

The decrement delay is the time for which the highest temperature is delayed before passing through the fabric (e.g. roof). A phase delay of ten to twelve hours is optimum. This means that the high-est midday temperature does not reach the indoors until night time. Due to the lower outside temperatures the building fabric can then release a portion of the heat directly back to the outside.

The benefits at a glance:
- Heat from the outside is stored within the PAVATEX insulation.
- During the day pleasant temperatures in all rooms.
- Slow, time-delayed heat release to the outside in the night-time hours.

Decrement delay

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### Products

<table>
<thead>
<tr>
<th>Products</th>
<th>TAF*</th>
<th>Specific density (kg/m³)</th>
<th>Specific thermal capacity (W/m²K)</th>
<th>Decrement delay (h)</th>
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</thead>
<tbody>
<tr>
<td>PAVATEX-insulating boards</td>
<td>5 %</td>
<td>148</td>
<td>2.100</td>
<td>11.2</td>
</tr>
<tr>
<td>Cotton in WIB 20 mm</td>
<td>16 %</td>
<td>85</td>
<td>1.590</td>
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<tr>
<td>Flax</td>
<td>15 %</td>
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<td>1.600</td>
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<td>Cellulose</td>
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<td>29</td>
<td>1.900</td>
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<tr>
<td>Sheep's wool in WIB 20 mm</td>
<td>22 %</td>
<td>29</td>
<td>1.900</td>
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<tr>
<td>Mineral wool</td>
<td>27 %</td>
<td>40</td>
<td>1.700</td>
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<td>Polystyrene</td>
<td>73 %</td>
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<td>1.000</td>
<td>6.0</td>
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<tr>
<td>Mineral wool</td>
<td>23 %</td>
<td>20</td>
<td>1.500</td>
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</tr>
</tbody>
</table>

WIB = woodfibre insulating board

*Source: Association for Insulation Materials from Sustainable Raw Materials (ADNR)

## Thermal protection/heat protection

- Low-energy or passive house
- Can be used for many types of building
- Consistent protection of the roof, walls and floor
- Reduced heating costs, protection against humidity damage
- Can be used for many types of building and façade
- Low-energy or passive house compatible

### Systemgarantie

#### Decrement delay

The decrement delay is the time for which the highest temperature is delayed before passing through the fabric (e.g. roof). A phase delay of ten to twelve hours is optimum. This means that the highest midday temperature does not reach the indoors until night time. Due to the lower outside temperatures the building fabric can then release a portion of the heat directly back to the outside.
The benefits at a glance:
- Air- and footfall noise reduction
- High compressive strength
- Improved thermal insulation

The noise-protection values which PAVATEX achieves are impressive. There is nothing better on the market!"
Home-owners are focusing more and more on healthy living. PAVATEX is setting the standards in this area.

Torsten Steglitz | Client

Europeans can spend up to 90 percent of the year indoors. The indoor air quality is therefore hugely important. According to research there are around 70,000 substances that can be detected in a building. Most have never been researched fully and neither their potential to harm health and cause side effects.

Building toxins however can cause anything from headaches, fatigue, concentration problems, skin and respiratory irritation, infections to life-threatening illnesses. Particularly problematic is that the causes are rarely traceable and the symptoms are diffuse. Doctors talk about Sick-Building Syndrome (SBS).

Air-tightness requires few local emissions
Indoor contaminants often comprise volatile organic compounds (VOC) which can be given off by coatings (paint, varnish etc.), furniture or floor coverings. The challenge: Contaminants these days are less able to escape to the outside by convection because modern building shells are increasingly more airtight than older, less adequately-sealed buildings. Air conditioning systems are not suitable to evacuate contaminants. The result is that health-hazardous substances collect inside buildings and have long-term effects on the wellbeing of the occupants.

Healthy indoor climate without contaminants
Thanks to carefully researched materials and natural raw materials, PAVATEX guarantees a good all-round interior climate and excellent quality of life. Low-emission wood which gives off no contaminating substances is used in all product lines. Second-hand timber is not used. Additives containing VOC or formaldehyde are not used.

Summary: PAVATEX products are particularly recommended in building biological terms. This is confirmed by numerous independent institutes and organisations, which regularly test the environmental friendliness and positive influence of PAVATEX products on a healthy living environment.

If you use PAVATEX building materials from the start, you benefit demonstrably from a particularly good interior climate.

Interior climate

Impressive certification
• PAVATEX products regularly exceed environmental and sustainability requirements. This is confirmed by certifications like natureplus (International Association for future-oriented building and accommodation).
• Up-to-date certification of harmlessness

The healthiest building in Germany
Germany’s healthiest building according to ÖKO-TEST magazine is in Hamburg and is insulated with PAVATEX. The building has been built according to the Sentinel Building Concept with woodfibre materials from PAVATEX. Emissions: 0.074 mg VOC per cubic meter of air (value recommended by the German Environmental Agency: 0.300 mg). The timber-frame construction, built from sustainable and environmentally-friendly building materials, is largely emission-free and offers a healthy living environment. PAVATEX products in use: ISOLAIR sarking board (roof), DIFFUTHERM insulation board for composite thermal insulation systems (wall), PAVABOARD highly compression-resistant thermal insulation boards (floor).

The benefits at a glance:
• Low-emission pine
• No health-hazardous additives
• Up-to-date certification of harmlessness

The healthiest building in Germany
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The benefits at a glance:

- Fast, simple and safe application
- Perfectly-matched products
- Single-sourced and tested components

Blower-Door test

The Blower-Door test is a reliable method of tracking convection currents in the building to test the airtightness. In this case fans blow air into or out of the building until the positive or negative-pressure reaches around 50 Pa (equal to the pressure difference at a wind speed of 5 (Beaufort scale)). The amount of air penetrating or escaping from the building via leaks is then determined. This method enables potential weak points to be pinpointed.

The PAVATEX range of sealing systems includes various membrane types and adhesives for the airtight building shell. These perfectly match our woodfibre insulation materials. The PAVATEX system warranty also guarantees safety with additional benefits in the event of damage.

No moisture penetration

Airtightness is a regulatory requirement for building shells today. An airtight building shell however offers much more than heat protection. It prevents warm or damp air from flowing through joints, gaps and other compromised points in the building fabric. This moisture can condense in cooler areas and constitutes the ideal medium for the proliferation of mould and rot. Particularly vulnerable is the roof. Unless it is fully sealed, the large temperature differences in winter can cause strong airflows between the inside and the outside. These effects can be prevented with PAVATEX.

PAVATEX insulation systems with fire protection certification

PAVATEX takes its fire safety responsibility seriously and its products for roof and wall constructions to regular fire safety tests. Some of these take place at the renowned German Institute for Building Materials, Solid Buildings and Fire Safety (iBMB) and the Braunschweig Technical University. In tests, various components are exposed to fire under controlled conditions and their resistances are measured. Amongst other things the load-bearing capacity (R), the room-sealing function (E) and the thermal insulation (I) are assessed. The performance times are given in minutes. Accreditation according to REI 90 for example means that the component meets requirements with regards to load-bearing capacity, room-sealing and thermal insulation for up to 90 minutes.

The benefits at a glance:

- Fire-retardant thanks to self-forming ash protection layer
- No hazardous gases
- No melting and forming of flaming droplets
- Protects components with maximum fire resistance

In listed buildings PAVATEX insulation ensures a high degree of safety in the event of fire.

Wood as the raw material – nevertheless optimum fire protection

PAVATEX products meet high statutory requirements and offer even better fire protection than other insulation materials. They are slow-burning and act as a fire retardant. In an emergency this provides crucial time benefits. In a fire a layer of ash forms on the surface of PAVATEX woodfibre insulation boards. This acts as a safety shield, preventing oxygen from reaching the flames and slowing down the spread of the fire. It thus achieves fire-resistance classes of up to REI 90.

This means the construction can withstand a fire for 90 minutes. In addition PAVATEX insulation systems do not release dangerous gases in case of fire. The woodfibre boards also heat up far more slowly than other building and insulation materials. In comparison with mineral fibre insulation materials, for example, ignition of adjoining building components is much delayed because the surface facing away from the fire stays cool. Moreover, burning PAVATEX insulation materials do not melt or form flaming droplets as polystyrene insulation does.

PAVATEX insulation systems with fire protection certification

PAVATEX takes its fire safety responsibility seriously and subjects its products for roof and wall constructions to regular fire safety tests. Some of these take place at the renowned German Institute for Building Materials, Solid Buildings and Fire Safety (iBMB) and the Braunschweig Technical University. In tests, various components are exposed to fire under controlled conditions and their resistances are measured. Amongst other things, the load-bearing capacity (R), the room-sealing function (E) and the thermal insulation (I) are assessed. The performance times are given in minutes. Accreditation according to REI 90 for example means that the component meets requirements with regards to load-bearing capacity, room-sealing and thermal insulation for up to 90 minutes.
Delivering safety: PAVATEX system guarantee.

For roofs, exterior walls, interior walls, façades or floors: PAVATEX provides integral, single-sourced system solutions. Thanks to our application-friendly insulation and sealing systems you have the entire building shell under control.

And the best thing is that our industry-wide unique system warranty offers additional assurance due to its range of benefits.

Applications

1. The perfect solution for roof refurbishment from the outside
2. The classic under-roof solution in new-builds
3. The high-performance over-rafter system
4. The functional flat-roof system
5. The woodfibre insulation board for internal insulation of the exterior wall
6. The highly insulating solution for rear-ventilated facades
7. The ideal solution for rendered exterior walls in timber-framed buildings
8. The ideal solution for rendered exterior walls in brick buildings
9. The lightweight and highly-insulating interior insulation board
10. The ideal insulation system for solid floorboards
11. The best protection against footfall noise
12. The compression-resistant solution for floor systems

PAVATEX woodfibre insulation materials are proven, tested and certified quality products.

You can find more systems at www.pavatex.com.
**Reliable all-round protection: PAVATEX roofs.**

**New-builds**

Roofs insulated and sealed with PAVATEX offer all-round protection against cold, heat, noise and fire hazards. In new-builds, PAVATEX over-rafter insulation is the top-quality roof insulation solution. High specific weight, homogenous insulation above the rafters gives a highly effective insulation layer which is quick and easy to apply over the entire surface. The flexible inter-rafter method alternatively involves inserting PAVAFLEX between the rafters. This increases the overall insulation performance. In both cases, the structure is topped with ISOLAIR, the watertight and insulating sarking board. The room-side insulation with PAVATHERM PROFIL or PAVATHERM COMBI insulating boards makes the system complete.

**Roof refurbishment**

When refurbishing roofs of existing buildings, the lowering of energy consumption with the help of improved insulation is a priority. PAVATEX roof refurbishment systems can bring any roof easily up to the state of new build. The insulation can be applied from the inside without changing the existing roof covering. Alternatively, as with occupied lofts, refurbishment from the outside may be preferable, using flexible inter-rafter insulation, vapour-permeable airtight membrane and sarking boards. Thanks to the PAVATEX system warranty, long-term, reliable system tightness of the whole structure is guaranteed for new-builds and refurbishments.

**The benefits at a glance:**

- Vapour-permeable but also air- and wind-tight roof construction
- Thermal bridge-free thanks to the 100% all-over isolation layer
- Certified fire-resistant to REI 45
- Long-term system tightness guaranteed by PAVATEX system warranty

«PAVATHERM woodfibre insulating boards are suitable for a wide range of applications. Vapour-permeable and absorbent, they form the basis for safe constructions.»

Gerhard David | Sales and Technology, Germany
PAVATEX insulation systems for external walls and façades meet all structural requirements. Thus the building gains not only a modern contemporary look, but is also protected against summer heat and noise disturbance, despite a thin wall construction. PAVATEX solutions for exterior walls with their vapour-permeable structure also guarantee a pleasant, balanced room climate and structurally effective wall façades.

Cladding systems
For a cladding façade, highly thermally-insulating PAVATEX elements are applied to the outside. The timber ventilation batten can at once serve as substructure for the cladding façade. Particularly suited for this are PAVATHERM PLUS or ISOLAIR. In timber construction, the timber-framed stud walls can be insulated with PAVAFLEX, the flexible woodfibre insulation from PAVATEX. This system offers continuous thermal-, heat-, noise- and fire protection and is quick and easy to install. In the course of a renovation project, exterior walls can thus be insulated to comply with the current low energy standards of new builds.

Insulating render carrier-board
When using compact thermal insulation composite systems the insulation boards are directly attached to the existing building fabric and then rendered on the outward-facing surface. Our PAVATEX solutions for this are called DIFFUTHERM or DIFFUBOARD. Depending on the wall design they are suitable for direct attachment to the timber frame or masonry wall. PAVAWALL-BLOC is a compact sized board, suitable for all solid substrates, e.g. brickwork or solid timber walls. Compact façades are commercially ideal due to their thin and thermal bridge-free construction and fast installation.

Smart design: Multifunctional building shell.

«A properly insulated façade has a direct effect on the room climate. A thorough technical consultation is essential when building a house.»

Michael Stadelmann | Technical manager, Switzerland
**Optimum all-round protection:**

**Interior solutions**

**Interior wall insulation**

If the façade is to remain visible, e.g. in listed buildings, the wall insulation must be from the inside. Conventional, vapour barrier-based insulation systems can be risky and unsuitable for historic buildings as they are vulnerable to faulty installation and damage. For this reason, PAVATEX has developed the interior wall insulation board PAVADENTRO. It uses the capillary active and hygroscopic capacity of the woodfibre. Together with the integrated mineral functional layer they enable moisture transport and thus prevent destructive condensation. Thus the vapour-open PAVADENTRO interior wall insulation board maintains the drying potential of the existing structure and contributes to a noticeably better, balanced room climate.

**Floor insulation**

PAVATEX also offers high-performance guaranteed solutions for interior insulation of floors. These include the compression-resistant and robust PAVATHERM-PROFIL board, the universal impact and sound-resistant floorboard PAVAPOR and the highly compression-resistant and robust PAVABOARD. All products are universally applicable for the most varied floor constructions, e.g. wet and dry screeds, wooden floors or fillings. With optimum thermal- and sound protection they guarantee quietness and comfort.

**Partition wall- and floor/ceiling insulation:**

A compression-resistant filling is applied to the wooden boarding of an existing floor construction to level any slopes. It forms the base for the subsequent layer of PAVAPOR or PAVATHERM-PROFIL, which is also covered with a timber-based floor board.

**The benefits at a glance:**

- Comfortable indoor climate thanks to moisture-buffering and capillary-active properties
- Vapour barriers can be omitted thanks to an innovative, vapour-controlling functional layer
- High-performance sound absorption system especially for the floor area

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**PAVATEX insulation boards are breathe-active, non-problematic from a structural point of view and maintain a comfortable room climate.**

Matteo Pontara | Technical office department manager, NATURALIA BAU
From raw materials through production to the finished product, sustainability and practical environmental protection take priority at PAVATEX. It begins with the raw material. The wood for the PAVATEX woodfibre insulation materials is supplied by nature itself – in the form of pine from mainly local sustainable forests. PAVATEX solely uses waste chippings, shavings and sawdust from sawmills. The material is utilized and further processed by PAVATEX. As a rule PAVATEX does not use second-hand wood.

Double climate-protection

Anyone using PAVATEX insulation materials is making a significant contribution to climate protection. Firstly, PAVATEX insulation materials considerably reduce the heating energy requirement of a building. This saves heating costs and protects resources of fossil fuels such as oil, gas or coal. PAVATEX insulation systems also improve the CO2 balance. Wood products store carbon dioxide which is absorbed from the atmosphere during growth and transformed into wood. The carbon dioxide stored in this way is removed from the global cycle, improving the overall CO2 balance. Every building insulated with PAVATEX represents new stores of CO2 which extend the natural storage function of the wood and step-by-step, contribute to practical climate protection.

Responsible production

The use of woodfibre insulation materials in itself provides protection for the environment and climate because the transformation of the raw material into a building material uses far less specific energy than the manufacture of other building materials, e.g. aluminium. In addition, thanks to the most advanced processes in engineering and efficient manufacturing, PAVATEX needs less energy than other insulation manufacturers for its production. So even at the production stage, PAVATEX ensures maximum environmental protection and sustainability.

The wood lifecycle at PAVATEX: Thought-through sustainability.

1. Raw material: fresh waste wood from sawmills
2. Production: use of regenerative energy sources.
3. In use: PAVATEX lasts for decades, improving the climate balance throughout its product lifecycle.

PAVATEX woodfibre insulation materials are made of wood from sustainable forestry.

The benefits at a glance:

- Particularly high-quality in ecological terms
- Wood from regional, sustainable forestry
- Climate protection: Positive CO2 balance thanks to carbon dioxide storage
- Responsible production

PAVATEX insulation materials relieve the global CO2 cycle and make numerous contributions to climate protection.

The PAVATEX factory in Golbey is the most modern and efficient production system for woodfibre boards in Europe.
Good reasons to choose PAVATEX

10 good reasons to choose PAVATEX woodfibre insulation

For years, PAVATEX has delighted partners and installers with the most reliable and innovative solutions on the market. We continually aim to meet this high standard so that you can continue to enjoy the benefits of relying on the best. With PAVATEX you can rely on the following advantages:

1 Top quality.
You are choosing Europe’s leading manufacturer of high-quality woodfibre insulation materials and unique product characteristics.

2 Compatibility.
You have access to integrated system solutions for the whole modern building shell.

3 Individuality.
You are relying on a product which is developed with your needs in mind and which will continue to be perfected with innovative creativity.

4 Added value.
You benefit from ecological insulation materials and competent service.

5 Reliability.
You receive personal and competent service which focuses on the most important thing – your satisfaction.

6 Ease of installing.
PAVATEX woodfibre insulation materials are extremely easy to work with. They are easy to handle, light and perfectly-fitting.

7 Sustainability.
We make an important ecological contribution because PAVATEX is committed to the use of sustainable natural materials.

8 Energy efficiency.
Home owners can save more energy in their buildings because PAVATEX products ensure a positive energy balance.

9 Safety.
You are working with a reliable material which protects against cold, heat and fire and whose unique product characteristics set standards in the industry.

10 Partnership.
Your personal application consultant will advise you professionally and conscientiously.

We look forward to hearing from you!
PAVATEX – Your partner around the globe!

Your specialised dealer will be happy to advise you competent

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