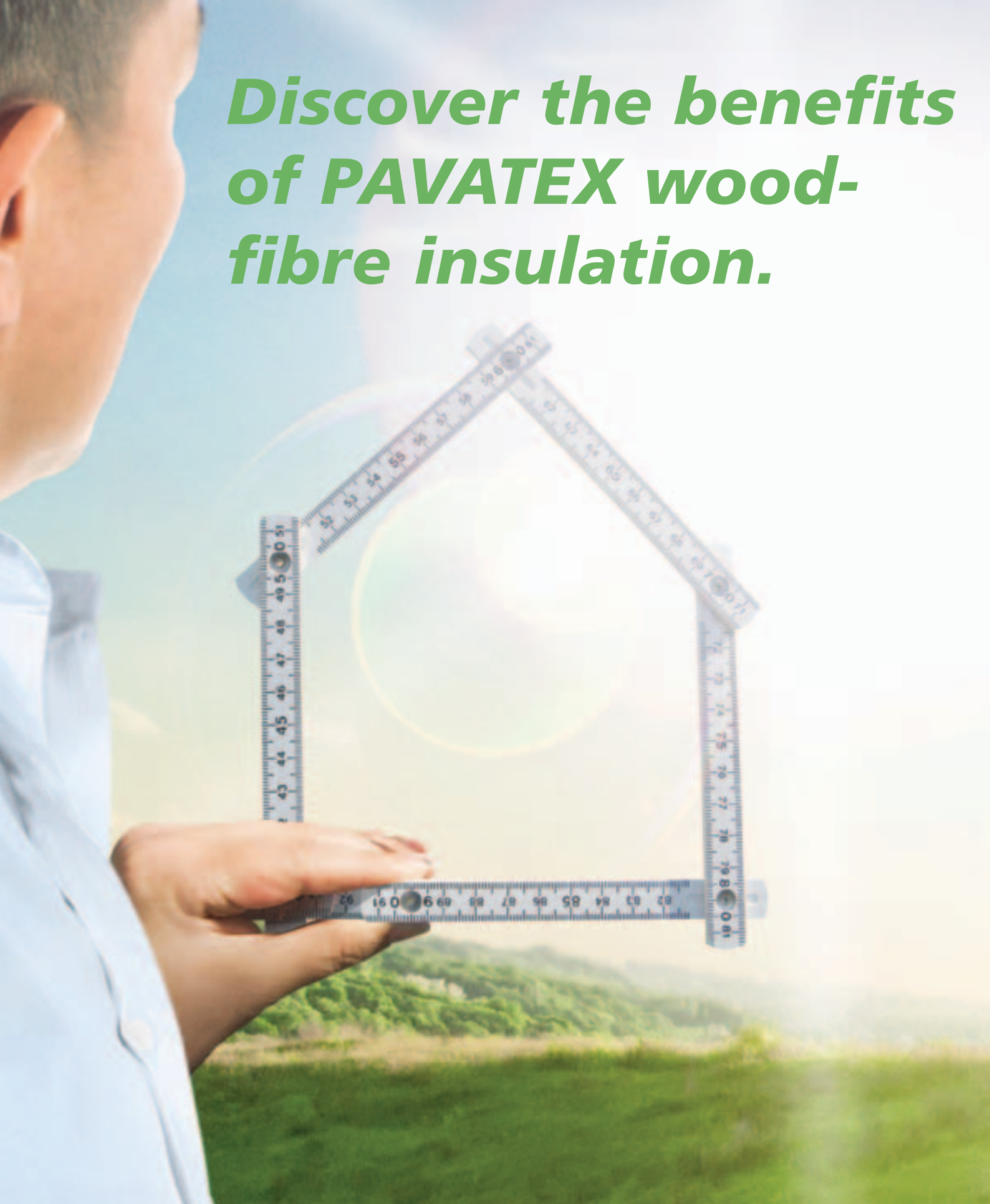


*Discover the benefits
of PAVATEX wood-
fibre insulation.*



pavatex

Build. Insulate. Relax.

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 timber façade in Bad Dürrenberg 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.

4 The benefits of PAVATEX

6 Product characteristics

- 8 Thermal protection/heat protection
- 10 Sound protection/vapour permeability
- 12 Interior climate
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20 Building envelope

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24 Ecology and production

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PAVATEX: The satisfying feeling of relying on the best.

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!



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

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.

Productivity and profitability: decisive PAVATEX added values.



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.

PAVATEX offers personal service which is directed at your requirements.



«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

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.

Thermal protection in winter

Due to their low thermal conductivity, PAVATEX insulating materials prevent energy loss. Cosy heat stays in the house, heating energy is lowered and costs are noticeable reduced.

Sound protection

Thanks to their high specific weight and porous fibre structure PAVATEX insulation materials protect effectively against noise within your four walls. Interfering noise is kept outside and you can enjoy a quiet indoor atmosphere.

Weather protection

Our roof insulating boards offer added protection against hail and water penetration, should the roof membrane be compromised in a storm. In this case you benefit from the highest hail resistance classes, e.g. HW4 for ISOLAIR with thicknesses of 35 mm.

Fire protection

Fire-retardant and even fire-resistant constructions can be achieved with PAVATEX roof insulation boards, easily meeting regulations and legal requirements. More importantly however, this will satisfy your personal safety requirements.

Swiss Engineering. Made by PAVATEX.

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.

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.

Air-tightness

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





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 internal 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.

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



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



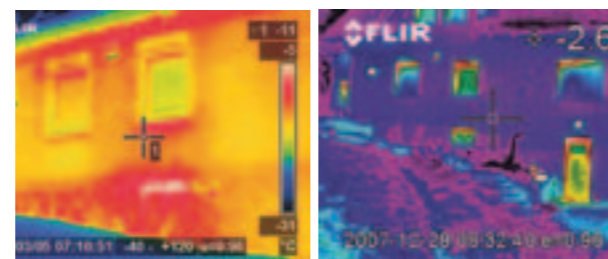
The benefits at a glance:

- 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



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

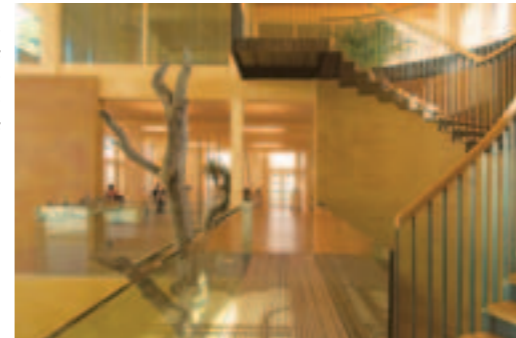


Invisible but effective: heat protection in summer.

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



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



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 (040).

Products	TAR*	Specific density (kg/m ³)	Specific thermal capacity (J/kgK)	Decrement delay (h)
PAVATEX-insulating boards	9 %	140	2.100	11,7
Cellulose (+ wib 20 mm)	16 %	45	1.940	8,7
Flax	20 %	30	1.550	7,4
Cotton	21 %	20	1.900	7,1
Sheep's wool (+ WIB 20 mm)	22 %	25	1.300	7,0
Mineral wool	21 %	40	1.000	6,7
Polystyrene	22 %	20	1.500	6,3
Mineral wool	23 %	20	1.000	5,9

WIB = woodfibre insulating board
*Source: Association for Insulation Materials from Sustainable Raw Materials (ADNR)

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.



Invisible but noticeable: Noise protection for your home.

Noise protection makes a major contribution to the quality of life. PAVATEX puts a lot of emphasis on this right from product conception. The aim is to guarantee protection against road traffic noise, industrial noise and other outside noise. This can be from neighbours in multioccupancy dwellings and between rooms in detached homes.

Insulation materials from PAVATEX can perform beyond the legally-specified noise-protection values. The unique product characteristics are regularly confirmed by test results from independent institutes.

Guaranteed noise protection

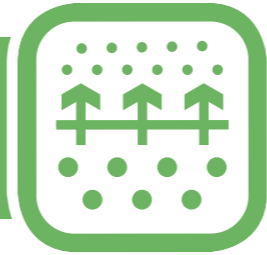
Noise protection needs to be consistently considered during the project planning- and implementation stages. Problem-specific solutions for roofs, partition walls, façades and ceilings must be optimally integrated into the structural components. PAVATEX woodfibre insulation is for all-purpose use in both masonry and lightweight structures.

«The noise-protection values which PAVATEX achieves are impressive. There is nothing better on the market!»

Max Moser | Fitter



There are many sources of noise. PAVATEX makes an important contribution to effective sound protection throughout the building.



Invisible but critical: vapour permeability.

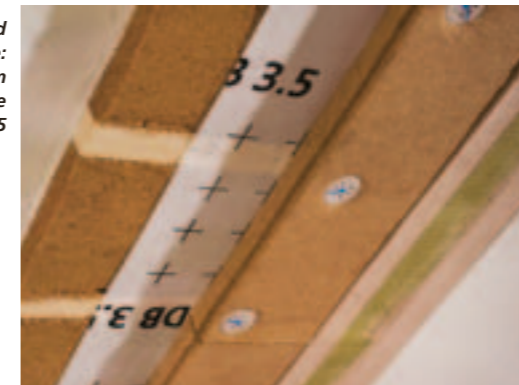
The woodfibre systems from PAVATEX are vapour-permeable by nature. This means that moisture as water vapour can pass through the boards. This is due to the porous and open structure of woodfibres and the woodfibre microstructure. Its functioning is similar to breathable sportswear with the same wide range of benefits. If unacceptable levels of moisture occur due to thermal bridges, initial construction moisture or poor workmanship, PAVATEX woodfibre boards are able to buffer the moisture and release it inwards and outwards. Internal moisture peaks can thus also be balanced and a pleasant room climate achieved.

«PAVATEX products are masterpieces of nature. Airtight yet vapour-permeable.»

Melanie Klein | Architect

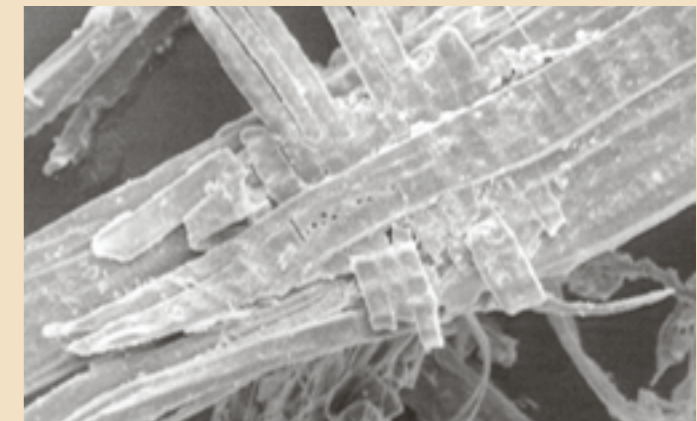


Airtight and vapour-permeable: PAVATEX system solutions with the vapour barrier DB 3.5



The benefits at a glance:

- Vapour-permeable by nature
- Natural moisture transport
- Balanced room climate
- Protection against structural damage



The individual woodfibres can be seen through the microscope. Their microstructure provides the natural vapour-permeability.

Natural, self-regulating moisture balance

The secret of the vapour-permeability of PAVATEX insulation boards lies in the woodfibres themselves. They have an open-pored structure by nature which allows water molecules to pass through. PAVATEX insulation materials can thus safely evacuate water from the component to the outside. The result is a balanced indoor climate protected from moisture and mould.

Sound protection for floors and false ceilings: e.g. with PAVABOARD or PAVATHERM PROFIL



The benefits at a glance:

- Air- and footfall noise reduction
- High compressive strength
- Improved thermal insulation



Invisible but healthy: pleasant and comfortable indoor atmosphere.

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: 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 allround 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.

«Home-owners are focusing more and more on healthy living. PAVATEX is setting the standards in this area.»

Torsten Steglitz | Client

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



The benefits at a glance:

- Low-emission pine
- No health-hazardous additives
- Up-to-date certification of harmlessness



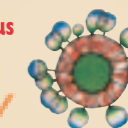
The healthiest building in Germany

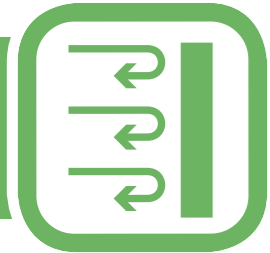
Germany's healthiest building according to ÖKO-TEST magazine is in Hamburg and is insulated with PAVATEX. The building has been built according to the Sentinel Building Concept with woodfibre materials from PAVATEX. Emissions: 0.074 mg VOC per cubic meter of air (value recommended by the German Environmental 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).



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 certifications for biological building safety – confirmed by the Sentinel-Haus Institute (leading independent institute for healthy building and living).
- “Very good” awards from ÖKO-TEST, Germany for many years as well as the “ACERMI” quality certificate in France





Invisible but pleasant: Air-tightness.

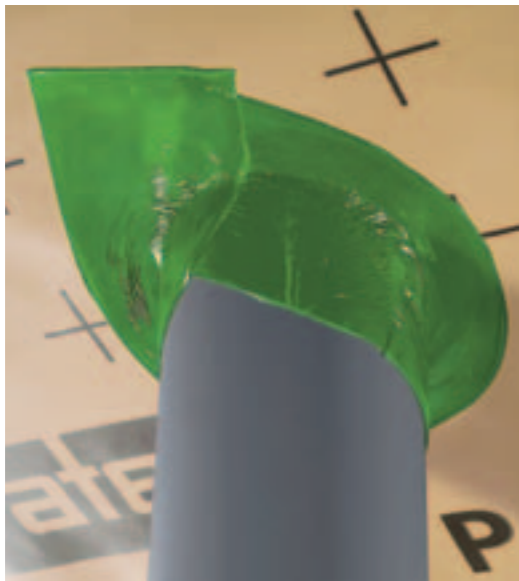
No moisture penetration

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.

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.



The PAVATEX system solutions combine a vapour-permeable structure with an airtightness layer.



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.



Invisible but fire-resistant: fire protection means safety.

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.

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



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



PAVATEX insulation systems with fire protection certification

PAVATEX takes its fire safety responsibility serious 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 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.

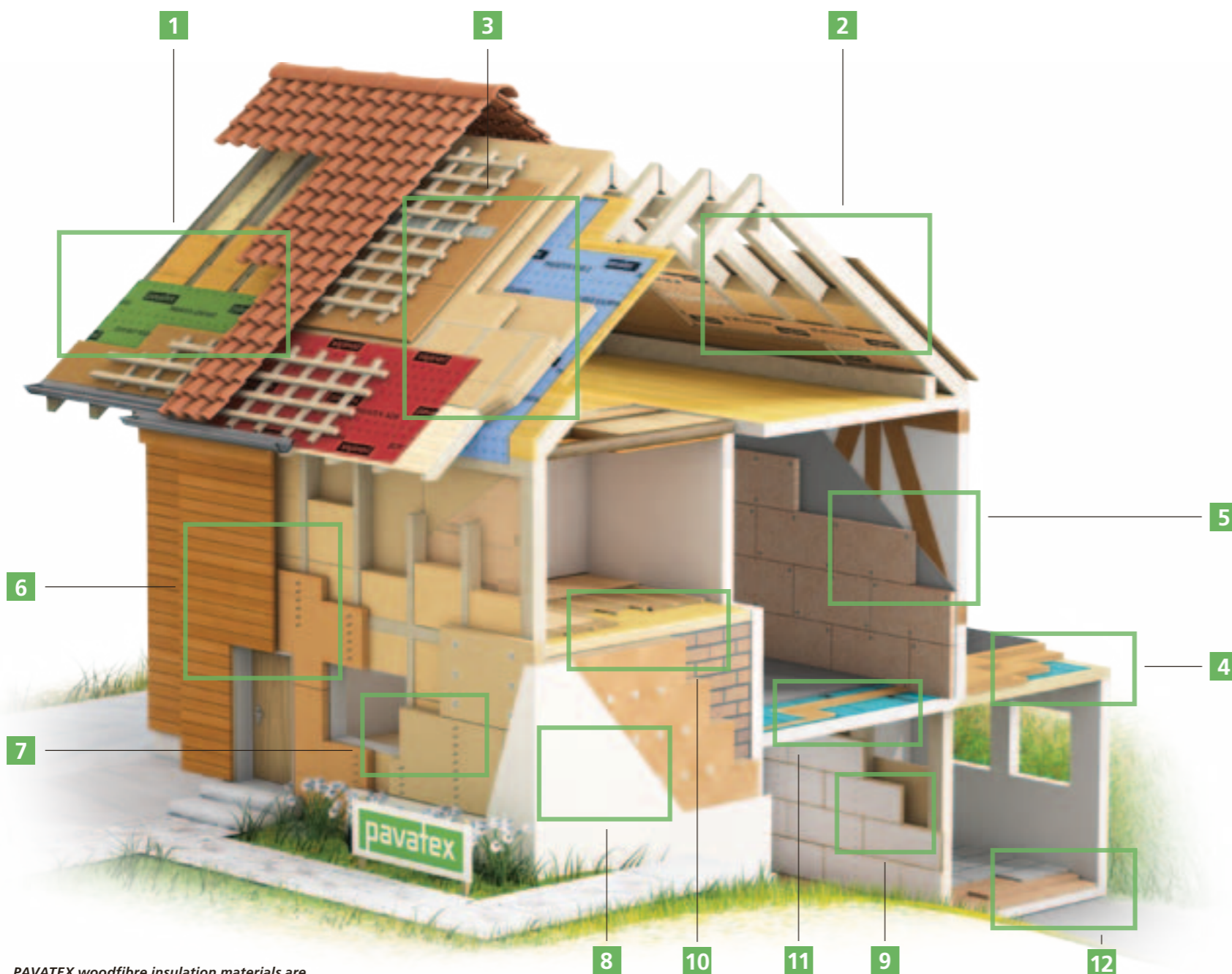
The following fire protection values apply for constructions insulated with PAVATEX:

- REI 45 for over-rafter insulation
- REI 30 from inside with rear-ventilated façades
- REI 60 from outside
- REI 90 from outside

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.



1	The perfect solution for roof refurbishment from the outside	ROOF
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	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	FLOOR
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 tested and certified quality products.

You can find more systems at www.pavatex.com.

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



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.



Typical over-rafter insulation – simply applied full-surface insulation in Legau, Germany.

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 builds. 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.



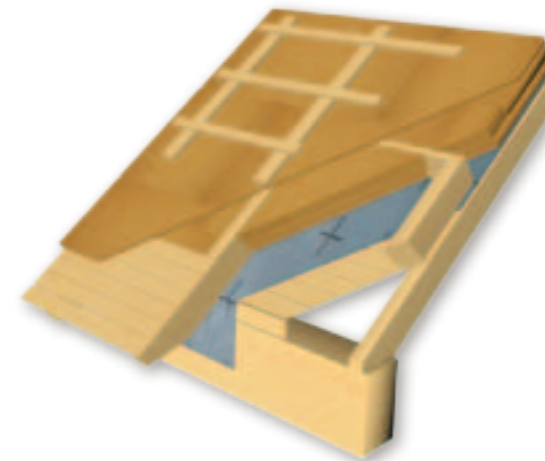
The PAVATEX insulation system is particularly effective for the renovation of protected historical buildings, such as this charterhouse in Freiburg, Germany.



PAVATEX systems guarantee safety for day-to-day work on the roof, e.g. in Aichstetten, Germany.

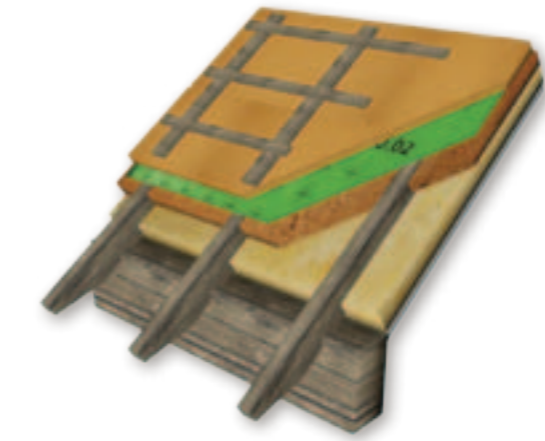
The benefits at a glance:

- 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



Over-rafter insulation:

The optimum solution for over-rafter insulation: DSB 2 roof sheathing membrane, ISOLAIR and PAVATHERM insulating boards laid over the full surface over the rafters.



Roof refurbishment from the outside:

The combination of PAVATHERM-PLUS or ISOLAIR, PAVATEX LDB 0.02 airtight membrane and PAVAFLEX are the top solution for roof renovation.

«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

Smart design: Multifunctional building shell.

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

«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

Hybrid construction with 60 mm DIFFUTHERM in Fribourg, Swiss



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

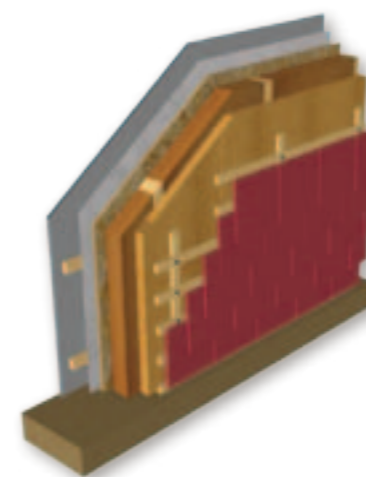
When using compact thermal insulation composite systems the insulation boards are directly attached to the existing building fabric and then rendered on the outward-facing surface. Our PAVATEX solutions for this are called DIFFUTHERM or DIFFUBOARD. Depending on the wall design they are suitable for direct 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.

PAVAWALL-BLOC can be mounted directly to stone- or timber substructures.



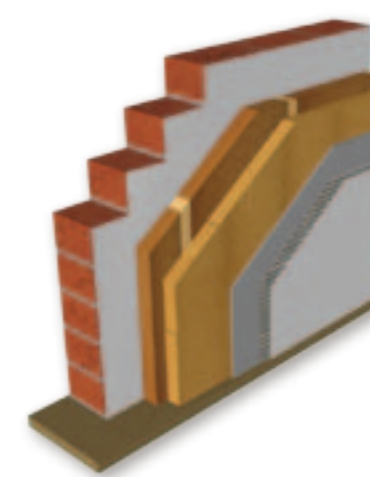
The benefits at a glance:

- Highly insulating solutions for cladding and compact façades
- Less thermal bridges due to continuous insulation layer
- Ideal solution for rendered exterior walls



Exterior wall insulation for timber-framed buildings:

When insulating exterior walls in timber-framed buildings, PAVATHERM-PLUS insulating boards behind the exterior cladding deliver excellent insulation values. The wall construction is completed with an insulation layer of PAVAFLEX between the timber studs.



Exterior wall insulation for brick constructions:

The rendered external thermal insulation PAVAWALL BLOC can be applied directly to the brickwork. Alternatively a timber stud is insulated with PAVAFLEX and then finished with DIFFUTHERM.

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.

«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



PAVADENTRO insulates aesthetically from the inside, as with this historic façade.

Floor insulation

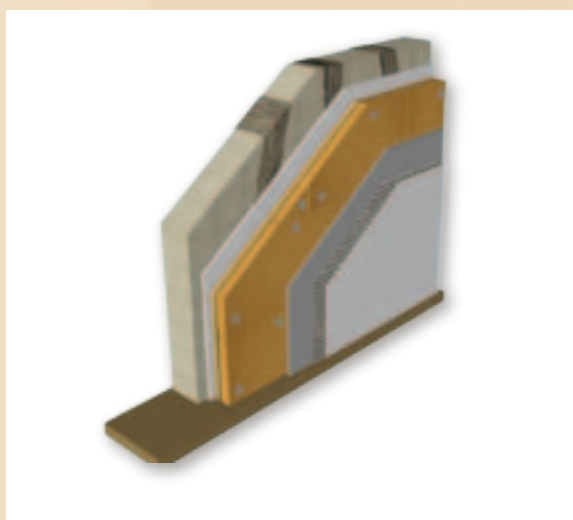
PAVATEX also offers high-performance guaranteed solutions for interior insulation of floors. These include the compression-resistant and robust PAVATHERM-PROFIL board, the universal impact and sound-resistant floorboard PAVAPOR and the highly compression-resistant and robust PAVABOARD. All products are 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.



PAVATHERM-PROFIL is a compression-resistant, soundproof woodfibre insulation board for floor constructions.

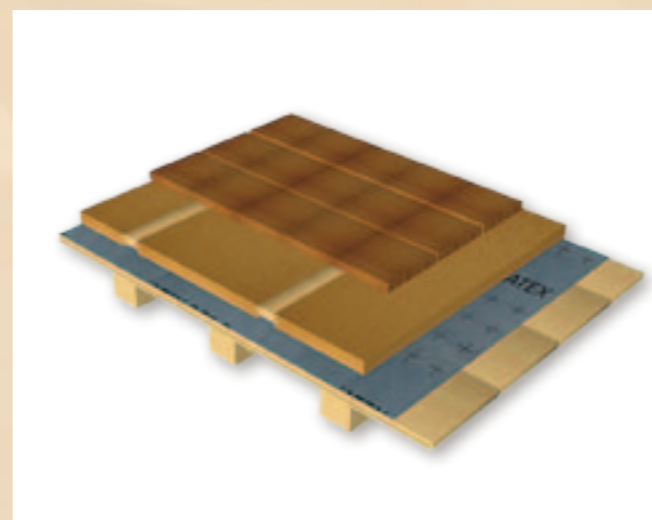
The benefits at a glance:

- 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



Interior wall insulation:

For insulation on the room side, PAVADENTRO is simply mounted onto the existing wall plaster (brick or timber-frame) and then plastered. PAVADENTRO actively employs the hygroscopic characteristics of the woodfibres and so prevents the build-up of condensation. It also enables the controlled evacuation of moisture.



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.





Think further: Ecology and production.

«From raw material to the finished product, sustainability and environmental protection take priority at PAVATEX.»

Martin Tobler | Director of Marketing & Development

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.

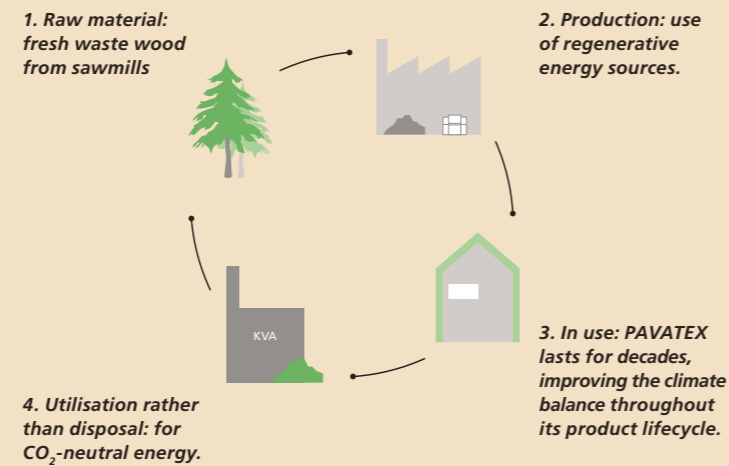
PAVATEX insulation materials relieve the global CO₂ cycle and make numerous contributions to climate protection.



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.



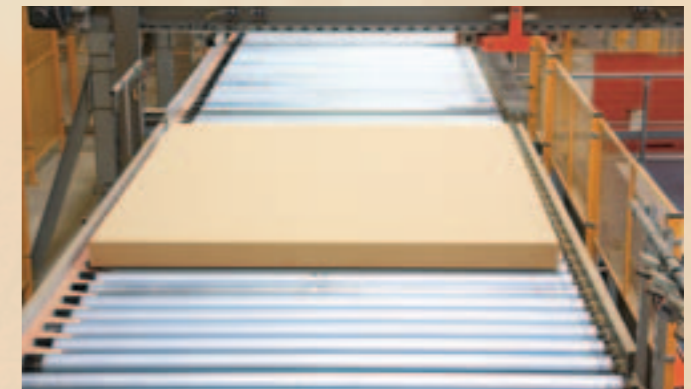
PAVATEX woodfibre insulation materials are made of wood from sustainable forestry.

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

Rating: particularly valuable

PAVATEX manufactures its woodfibre insulation boards in a continually optimised process. In all cases PAVATEX uses additives according to the motto "As much as necessary, as little as possible". Irrespective of the manufacturing process, the following applies: All PAVATEX products are of ecologically particularly high quality and they are biologically safe building materials whose sustainability is documented, e.g. by the EPD environmental product declaration.



Wood from sustainable forestry forms the raw material for PAVATEX woodfibre insulation boards.

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

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.

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.

5 Reliability.

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

8 Energy efficiency.

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

2 Compatibility.

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

4 Added value.

You benefit from ecological insulation materials and competent service.

6 Ease of installing.

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

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.

7 Sustainability.

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

10 Partnership.

Your personal application consultant will advise you professionally and conscientiously.

We look forward to hearing from you!

PAVATEX products are designed according to the latest market requirements but above all they are designed for your own individual needs. Do you have any questions about our products or would you like to engage with us?

We look forward to hearing from you!

www.pavatex.com

PAVATEX – Your partner around the globe!

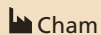
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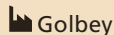
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