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EXPERIENCE THE  
**GUTEX**  
**EFFECT**

 **GUTEX**<sup>®</sup>  
NATURALLY MADE FROM WOOD

# CONTENTS



## Introduction

Welcome home 4

## Wood

Nature knows better. 6

## Products

A product for every challenge 8

## Indoor Comfort

Outside, nature prevails. Inside, the everyday chaos. 10

### PROTECTION AGAINST COLD IN WINTER

Say goodbye to cold feet. 12

### PROTECTION AGAINST THE HEAT

Let the heat peak out. You're cool man. 16

### PLEASANT INDOOR CLIMATE

Here's to your health. 20

### ACOUSTIC INSULATION

Escape to your refuge. 24

## Safe and Sound

Outside danger threatens. Inside the end of a story. 28

### FIRE PROTECTION

Insulated safely 30

### DURABLE WEATHER PROTECTION

Even in the severest of storms 34

## Naturally Efficient

Out there the energy shortage threatens. At home, only the mother-in-law. 38

### LASTING VALUE

Preserve the health of your building. 40

### ENERGY EFFICIENCY

Tighten up on your expenses. 44

## Systematic

Effective insulation not a product of chance. 48

## Quality

Quality has many facets. 50

## Sustainability

In the balance. 52

## Service

Welcome the Gutex effect into your home. 54

## Imprint

56

# WELCOME HOME

*Eighty-five years of innovation driven by foresight, confidence in the quality of our softwood and a commitment to act responsibly to protect plants, animals and our future generations are things that don't go unnoticed in a home insulated with GUTEX wood fibre insulation products.*

At the edge of the Black Forest, in Waldshut-Tiengen, home to GUTEX, we devote our full attention to discovering new means to improve the ways we turn our high quality resources into products that give you the greatest benefits.

GUTEX's insulation products, and complete systems for building envelopes feature natureplus® certificates, verifying their biological safeness. Made using the most advanced technologies and locally sourced wood, these products are of genuine value to your family, the environment and us.

Why? Because you can expect more than a wholesome, value-appreciating home thanks to GUTEX wood fibre insulation. We provide you with solutions tailored to your specific needs and wants – solutions that improve the quality of your life and the Earth's well-being.

What could be better than a wholesome, comfortable living space, one in harmony with Nature and the environment?

**Experience the  
GUTEX effect.**

## 160 SKILLED INDIVIDUALS

Your most valuable asset, your house, motivates us to give our best day in and day out.

## 30,000 HAPPY HOME- OWNERS EVERY YEAR

That's how many choose energy savings, a wholesome home and the GUTEX effect.

## WITH FORESIGHT

Sustainability has always guided our actions, leading us to act to protect plants, animals and the future of our following generations.

## PIONEERS SINCE 1932

We are a pioneer in ecological, efficient wood fibre insulation. You can count on us today and tomorrow.

## A TRUE SENSE OF HOME

We manufacture where the highest quality resources are available: at home in the Black Forest.

## ONE FAMILY'S DEDICATION

We're committed to doing what we know best, what we love and what we've always done. Now in our fourth generation.

## BETTER THAN RECYCLING: UPCYCLING

100% of GUTEX woodfibre products can upcycle into new GUTEX insulation products, which is gentler on the environment.

## CLIMATE PROTECTION

In contrast to conventional insulation, wood, throughout its product life cycle, mitigates carbon dioxide emissions, and serves as an active carbon sink, while not adversely changing the climate.

## DURABLE

Whether rain, sunshine or snow, wood is tough enough to withstand the elements.

## 100% CHIPS AND SHAVINGS

We don't harvest trees to make our products. Instead, we use sawmill byproducts.



## MULTIFACETTED

Wood fibre's many facets add up to make it far superior to other insulation materials.

## CONSISTENT SUPERIORITY

We use 60% Black Forest spruce and 40% Black Forest fir because their quality is superior and consistent.

## LONG LASTING

Wood lasts for generations. Consider the many hundred-year old trees and even older half-timbered buildings across Europe.

# NATURE KNOWS BETTER

*Wood insulation has so many appealing attributes. It is good for us, the environment and the climate. How much more, when it is obtained at our doorstep in the Black Forest using sustainable forestry practices? And then processed using our state-of-the-art, environment-friendly techniques?*

Amongst its many talents, are wood's lack of thermal conductance and its excellent thermal retention, which keep your home comfortably warm in winter and pleasantly cool in summer. In addition, wood fibre's diffusion-open cellular structure protects buildings against excessive moisture, absorbing and releasing moisture excesses, while creating a healthy indoor climate. And wood fibre provides superb acoustic protection.

### Build and refurbish today for tomorrow. It's easy with GUTEX.

At GUTEX, we do everything in our power to allow wood to perform to its fullest for you and future generations. It begins with the raw material we use, local spruce and

fir, whose fibres are uniquely efficient. You'll feel the difference, and you'll love the savings. The Black Forest provides the ideal growing conditions for these species, and all our raw material comes from closely located sawmills that process only wood obtained through FSC or PEFC certified forest management practices. Before wood helps protect the environment by insulating your home, it has already done its service when it is a tree by assimilating carbon dioxide from the atmosphere for photosynthesis, which it breaks down into carbon and oxygen. The carbon remains in the wood, subsequently in the insulation, and the oxygen releases into the atmosphere that we breathe. Wood benefits us in many ways.

## NATURE'S GIFT

- No other building material is so warm, so adaptable and so alive.
- Wood's many talents unfold in the hands of skilled craftsmen, meeting diverse architectural and aesthetic needs with peerless longevity.
- You can have a clear conscience building with our wood fibre products: Germany's forests grow faster than demand for their wood.

**We work with Nature. Sustainable and with foresight, we craft quality wood insulation, which you'll notice. That's the GUTEX effect.**



You'll find more interesting information about wood at: [www.gutex.de/wood](http://www.gutex.de/wood)

**FLEXIBLE WOOD FIBRE INSULATION BATTS**

**BLOW-IN WOOD FIBRE INSULATION**

**RIGID WOOD FIBRE INSULATION BOARDS**

**CHIPS AND SHAVINGS**

Renewable, carbon-neutral raw material from sustainable Black Forest forest management.

# A PRODUCT FOR EVERY CHALLENGE

*There is no one product capable of meeting every insulating challenge presented by the different areas of buildings. GUTEX understands and provides a specific answer for every section of your building's envelope, giving you the highest thermal efficiency possible.*

**Make your house a wholesome home**

You'll feel comfortable in your home when you build or refurbish with GUTEX ecological insulation products. ETICS for the exterior, insulation for vented facades, over-rafter, between-rafter, under-rafter applications, or wood fibre blow-in insulation, insulation for ceilings, interior insulation of exterior walls and wall cavities, acoustic insulation for floors, soundproofing underlay products for wood flooring and laminate, GUTEX has exactly what you need to make your house a wholesome home.

pumps remove approx. 50% of the water before the board material is dried in a circulating air dryer to obtain its final moisture content. Finally, the boards are cut to size and the edges milled, as required, before being stacked and packaged for shipping. Sawdust and milling residues are fed back into manufacturing process.

**A house that feels wholesome is a home. That's the GUTEX effect.**

**Dry and wet, GUTEX's carefully engineered processes**

The raw material, shavings and chips, are treated with 160 °C steam prior to passing through a millwork, which processes them into fibre. During the mill process, we determine the dimensions of the fibres, and thus the insulation properties of the final products. The "dry process" employs forced dry air to dry the fibres, before binding agents, textile fibres, hydrophobic agents and/or fire retardants, depending on specific requirements, are applied. Then the fibre is pressed and hardened by forced air. In the "wet process," water is mixed with the pulp and paraffin or latex is added prior to the pumping of the mixture into a forming box as a continuous fibre mat. Press rolls and vacuum

**IMPRESSIVE PROPERTIES, IMPRESSIVE PERFORMANCE**

- Drastic energy savings and reduced costs
- Drastic reduction of carbon dioxide emissions caused by home heating
- Savings on heating translate into very quick payback of investment
- Significant increase in value of house lead to higher sale price and rental fees
- Wholesome interior climate thanks to wood fibre's diversity

**i** Find out more about our products and their manufacture at: [www.gutex.de/properties](http://www.gutex.de/properties)



**OUTSIDE,  
NATURE  
PREVAILS.**



**INSIDE,  
THE EVERYDAY  
CHAOS.**



THE  
GUTEX  
EFFECT

COMFORTABLE

**THE WAY HOME  
SHOULD FEEL.**

Freezing cold, unbearable heat, tumultuous noise – when things outdoors are unpleasant and out of your control, GUTEX wood fibre insulation delivers. Regardless of the time of year or what’s going on outside, you’ll find your home comfortable and peaceful, year round with consistent temperature and relative humidity.



Feeling good at home  
year round.  
That’s the  
GUTEX effect.

**NO NEED  
TO IMPROVISE  
ANY LONGER.**

**GUTEX BRINGS  
WARMTH INTO  
YOUR LIFE.**



THE  
GUTEX  
EFFECT



Do you sometimes have the impression that it is nearly as nasty cold and drafty inside as it is outside? Although you've turned up the heat all the way? It might just be time for a change. With GUTEX wood fibre insulation, you needn't continue to let your hard-earned money slip literally through your walls. Save the environment and your money while making your walls and floors warm and your home comfortable with GUTEX.

# SAY GOODBYE TO COLD FEET

*Biting cold can spoil the cosiness of your home and higher heating costs create worries. GUTEX wood fibre insulation resolves both and adds to your house's net value.*

## Wood fibre protects you from the chill of winter

How comfortable you feel in a living space is the result of room temperature, surface temperatures, air circulation, and relative humidity. Wood fibre insulation excels in all these, outperforming other insulations, allowing the heat generated by the building's heating system to penetrate the walls with minimum loss. And when the heating system ceases to produce heat, the walls radiate the heat they have stored, causing the rooms to stay warm longer.

For you to feel snug and comfortable, the difference between wall and air temperatures should not exceed three degrees Celsius. Also of significance is that humid air rarely stagnates near warm wall surfaces, which helps prevent mold and mildew. In addition, warm walls help avoid the feeling of draft produced by cold walls, and prevent damage to buildings.

### Greatest advantage: low thermal conductivity

GUTEX wood fibre insulation's excellent performance is the result of its low thermal conductivity. A noticeable drop in the loss of heat benefits many: inhabitants enjoy the snugness and lower heating costs, while homeowners are happy about improved energy efficiency and the increased value of their investment. And last but not least, the environment profits significantly in many ways. Besides the obvious reduction in carbon emissions due to the need for less burning of fossil fuels for heating, the entire product life cycle produces drastically fewer carbon emissions than those of wood fibre insulation's conventional counterparts. Another significant fact is that carbon dioxide remains tied up in the wood fibre whilst the products are in use and in existence.

## A cozy home. That's the GUTEX effect.

### IT'S BEGINNING TO LOOK LIKE SPRING

- Lower energy use and expenses
- Lower carbon emissions, both active and passive
- Uniform indoor temperature
- Comfortable indoor climate



Find out more about protection against the cold at: [www.gutex.de/winterinsulation](http://www.gutex.de/winterinsulation)



### Warm walls mean pleasurable comfort

*We feel better when the temperature difference between the walls and air doesn't exceed 3 °C.*



**IS THE HEAT KEEPING  
YOU AWAKE?**

**KEEP YOUR  
COOL  
WITH GUTEX.**



THE  
GUTEX  
EFFECT



When the dog days of summer arrive and the sun worshippers are soaking it up, do you break out into a sweat, panicking in fear of those sleepless nights of tossing and turning? Then it's time for GUTEX wood fibre insulation. Keep the heat where it belongs: outside. Stay cool, even under the roof.

# LET THE HEAT PEAK OUT. YOU'RE COOL, MAN.

According to experts, the chances of you rising in the morning refreshed from your sleep when temperatures are above 26 °C are very slight. However, you may be glad to learn that GUTEX products, in addition to protection against cold, protect superbly against heat.

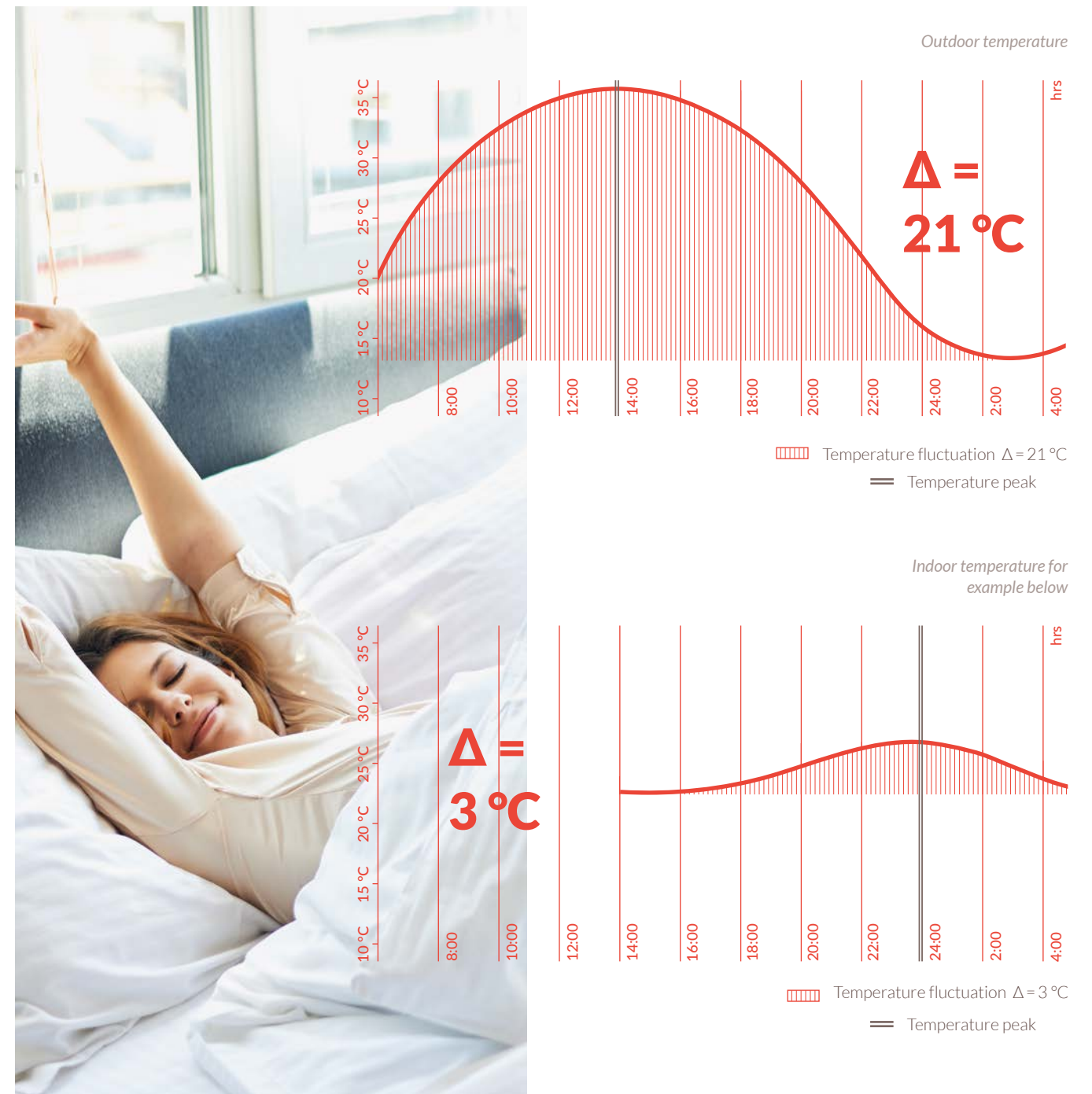
## Wood fibre. Your shield against the heat.

Tests performed by qualified analysts have shown that in comparison to mineral-based insulations, wood fibre insulation can reduce the percentage of hours that are too warm in interior spaces annually by up to 65 percent. So, as you can see, with GUTEX wood fibre insulation, your chances of getting up refreshed in the morning are vastly improved.

## The capacity to cool without carbon emissions

To protect living spaces against heat, especially those directly under roofs, the insulation material used must have enough thermal storage capacity or volumetric heat capacity to ensure the flow of warmth from the exterior to the interior area is adequately dampened. Thermal storage capacity refers to the ability of the insulation material, in this case wood, to absorb and retain thermal energy (technically referred to as time lag) before allowing it to reach the building's interior in a reduced magnitude (decrement factor). During the night, the temperature sinks outdoors and the thermal energy is released from the exterior of the building, keeping the fluctuation of temperature inside the building at a minimum without using carbon emitting electric-cooling systems.

Rise even summer  
mornings refreshed.  
That's the  
GUTEX effect.



## The example: GUTEX Thermosafe-homogen®

The time lag for 180-mm GUTEX Thermosafe-homogen® insulation is 10 hours. With a temperature fluctuation of 21 °C, as shown in the diagram, the temperature fluctuation of the air in the interior of the building is 3 °C. (Decrement factor = 7) What is the best way to insulate against summer heat? Besides the usual constructional factors, like location and size of the windows, air and wind tightness of the building and ventilation, the choice of the right insulation material is decisive.

## JOIN THE SLOW THERMAL MOVEMENT

GUTEX wood fibre insulation's thermal diffusivity is less than all the other conventional insulation materials, such as rigid foam, mineral wool, etc., meaning your house's interior spaces will stay warm longer in winter and cool longer in summer – with less energy.

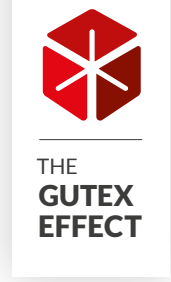


Learn more about insulation against the heat at: [www.gutex.de/summerinsulation](http://www.gutex.de/summerinsulation)



**TOO HUMID FOR  
YOUR COMFORT?**

**GUTEX  
TEMPERS YOUR  
INDOOR  
CLIMATE.**



Turning up the heat does not remedy problems with mould and mildew, because their medium is cold walls on which the humidity in the air condenses. GUTEX wood fibre insulation opens your walls to diffusion, preventing the growth of microorganisms and the impression and effects of cold walls that simulate draft.

# HERE'S TO YOUR HEALTH

Not just room and surface temperatures are decisive for a comfortable, healthy indoor climate. Humidity is also of great importance. GUTEX wood fibre insulation handles this challenge easily as well, regulating the relative humidity to a comfortable level, whilst preventing mould and mildew.

Always comfortable indoors. That's the GUTEX effect.

### Indoor relative humidity fluctuates

At a temperature of 20 °C, relative humidity of 50 percent seems pleasant to us. Under 40 percent appears too dry and over 70 percent too high. Since relative humidity in living areas is subject to breathing, cooking, showering, plant respiration and other factors, such as the weather, it tends to fluctuate continuously. For this reason, building materials that are capable of absorbing, retaining and releasing moisture are preferred.

### Nature's wood fibre is better

Natural wood fibre insulation from GUTEX permits diffusion. And it can absorb and release up to 15% of its weight in humidity without a loss in insulation performance. Thus, it is extremely effective at lowering excess humidity in the air. When the air is dry, the board releases the absorbed moisture into the room. Thanks to its humidity regulating function, GUTEX insulation creates a stable, comfortable living environment.

### NO EXCESSIVE HUMIDITY, NO MOULD

- Storage: Wood fibre insulation is capable of absorbing up to 15% of its weight in moisture without sacrificing any insulation capacity
- Diffusion openness: Wood fibre insulation is 15-20 times more capable of releasing moisture than petroleum-based insulation
- Sorption capability: Absorbs moisture, which it distributes throughout insulation's cross section and then releases it when house interior is dryer



Read more about how to regulate your house's climate at: [www.gutex.de/living](http://www.gutex.de/living)



1. Moisture storage capacity - humidity absorption and storage



Capillary action - uniform distribution of humidity



3. Diffusion openness - moisture releasing action

Sources of moisture and their volumes in ml per hour

### Living healthy

If you build using GUTEX wood fibre insulation, you're in great hands when it comes to living healthfully. Proof for the biological safeness of GUTEX insulation products may be found in our natureplus® seal of quality and listing in the Environmental Product Declaration (EPD) registry.

**NEED PEACE  
AND QUIET?**



**GUTEX  
MUTES  
NOISE.**



THE  
GUTEX  
EFFECT



Whether construction work, busy street traffic or overhead air traffic, when noise increases, your quality of life decreases. Quietness means everything to your sense of home and recuperation from the stress of work. GUTEX products absorb and dampen noise, no matter whence it comes: within or without. Escape to your refuge, find peace at home.

# ESCAPE TO YOUR REFUGE

*Noise is annoying and can threaten your health, if uninterrupted. Thus, it is extremely important that you have a place where quiet prevails. GUTEX wood fibre insulation dampens absorbed noise significantly better than conventional insulation products. With GUTEX, your house becomes your refuge.*

## Wood fibre does it better

Besides airborne noise caused by airplanes, automobiles and loud music, wood fibre insulation effectively dampens the transmission of impact noise, for example, through flooring, such as laminate or wood flooring – even noise caused by plumbing. Typically, wall and roof insulation are the means used to reduce airborne noise, whereas thin insulation underlayment installs under wood and laminate flooring to reduce impact noise. An additional benefit provided by wood fibre insulation, one that sets it apart from other insulation materials, is improved room acoustics.

## The difference maker

GUTEX wood fibre insulation's superior acoustic performance is the result of its greater density and open porosity, which allow it to absorb and dampen sound significantly better than polystyrene or polyurethane. In fact, it's so effective that it even meets the higher specifications for buildings near airports

**Escape the barrage of noise. That's the GUTEX effect.**

## 50 DECIBELS LESS

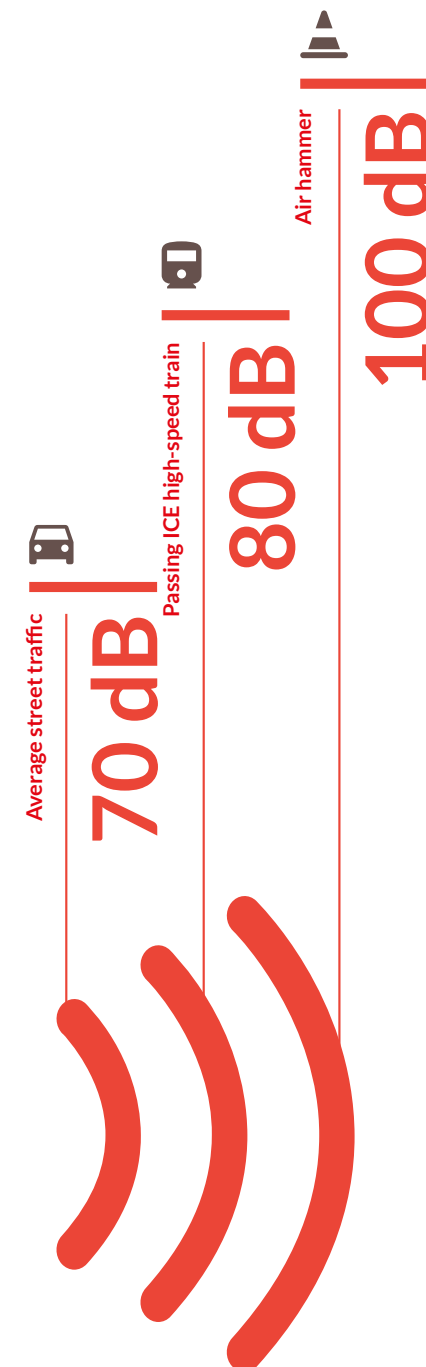
Compared to other insulations, wood fibre stands out when it comes to noise dampening, especially high-frequency noise. If properly installed, GUTEX products can effectively reduce levels by 50 dB.



To learn more visit: [www.gutex.de/acoustic](http://www.gutex.de/acoustic)

## Too much is unhealthy

We can close our eyes, but not our ears. Getting away from unpleasant, undesired or damaging noise is easier said than done. Our ears can take up to 120 dB, the level experienced near jets, before suffering damage. But even 70 dB, the noise produced by street traffic, can cause irreparable damage with time.



## Noticeably less noise

The human ear perceives changes of 10 dB double as loud or half as loud, depending on the direction of the change. If, for instance, roof refurbishment changes the difference between outside and inside noise from 34 dB to 46 dB, our subjective impression would tell us the measures reduced the level of noise by 50 percent.



**OUTSIDE,  
DANGER  
THREATENS.**



**INSIDE,  
ONLY THE END  
OF A STORY.**



THE  
GUTEX  
EFFECT

SAFE AND SOUND

**SLEEP TIGHT,  
GUTEX IS STANDING GUARD.**

Raging storms, severe hail, fire – when threats outside loom, you need reliable shelter. Rest assured, GUTEX products and systems protect you, your loved ones and your possessions for the life of your building



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Feeling safe, out of  
harm's way. That's the  
GUTEX effect.

**PROTECT WHAT  
MATTERS.**



**WHEN IT  
MATTERS  
MOST,  
GUTEX IS  
THERE.**



THE  
GUTEX  
EFFECT



Sparks, lightning, short-circuit? What if your home were to catch fire? Your GUTEX wood fibre insulation, if installed as per approved fire-rated structure, provides you with up to one and half hours of protection. When the wood fibre insulation burns, it burns slowly; not bursting into flames immediately, which may save your life one day.



# INSULATED SAFELY

*Nobody would deny that wood burns. But we've designed GUTEX wood fibre insulation to burn safely, because for the Black Forest insulation manufacturer, not just function, quality and ecology matter, but more important than anything is your safety. When you protect your home with GUTEX wood fibre insulation against cold, heat, moisture and noise, you protect your life and the lives of those you love most!*

## Wood everything but a fire hazard

Many flammable fossil-fuel based materials when inflamed drop burning materials from building walls, emitting highly toxic gasses. GUTEX wood fibre insulation boards char on the surface, creating a protective layer that slows burning and gives inhabitants valuable time to evacuate.

**Being prepared even  
for the unthinkable.  
That's the  
GUTEX effect.**

Moreover, GUTEX products and systems have been shown to delay the rise of temperature in structural sections of buildings thanks to their high volumetric heat capacity. And the charred layer helps keep the volumetric capacity intact longer. Finally, wood fibre insulation doesn't become fluid when it burns, nor does it produce a great deal of smoke.

## Steadfast through fiery trials

GUTEX wood fibre insulation meets the highest fire protection standards. Having a normally flammable rating, the insulation is suitable for use in class 3 buildings (Baden-Wuerttemberg), typically 2.5- to 3-storey, under 7-metres.

## PROVEN SAFE

With GUTEX wood fibre insulation, your building can comply with all the requirements for 2.5- to 3-storey buildings. GUTEX's technical assistance department will gladly provide you with verifications for the different fire resistance duration ratings for ceiling, roof and wall constructions.



For more information on fire protection, visit [www.gutex.de/fireprotection](http://www.gutex.de/fireprotection)

## A feeling of security

Thanks to their high volumetric storage capacity and their ability to char, wood fibre insulation boards and batts do not facilitate combustion. Nor are they prone to collapse and fall from walls or ceilings while burning.



A FIRE APPROACHES  
A WALL, WHOSE  
TEMPERATURE IS

**713 °C.**

A WALL STRUCTURE  
INSULATED WITH GUTEX  
WOOD FIBRE PRODUCTS CAN  
WITHSTAND THE FIRE FOR

**90**  **MIN.**



**CLIMATE SEEM OUT  
OF CONTROL?**

**GUTEX WON'T  
LEAVE YOU  
STANDING IN  
THE RAIN.**



THE  
GUTEX  
EFFECT



The climate is changing, but with GUTEX wood fibre insulation your house is secure. GUTEX sarking boards for roofs are not only rain-tight, they're also capable of withstanding severe hail, according to TÜV Rheinland, a German testing and certifying institute. Exterior walls? GUTEX impact-resistant wall insulation boards deliver superbly in the face of wind and severe weather conditions.

# EVEN IN THE SEVEREST OF STORMS

*A phenomenon of the changing climate is the occurrence of torrential rains and sudden, destructive hail storms. Many buildings lack the necessary protection. If you've refurbished or built your house using GUTEX wood fibre insulation, you have the best protection to cope with whatever the weather throws at you.*

## Impregnable to weather's assaults

An increasingly common scenario: High winds rip off roofing, exposing the underlying structure to subsequent hail, which damages poorly installed sarking. Unable to withstand the rain, the roofing paper allows moisture to enter the structure and building interior, causing substantial damage. GUTEX wood fibre sarking is strong, and durable enough to stand up to physical loads. Moreover, rain rolls off it thanks to its hydrophobic character.

GUTEX's product range is broad enough to ensure you'll find the ideal solution for your particular roof needs. When you protect your roof with GUTEX, you protect your investment. And your future.

You'll be grateful for wood fibre insulation's toughness when it comes to your building's render-coated ETICS. Why even impact caused by bicycles, rubbish cans or soccer balls can't damage the beauty of your house.

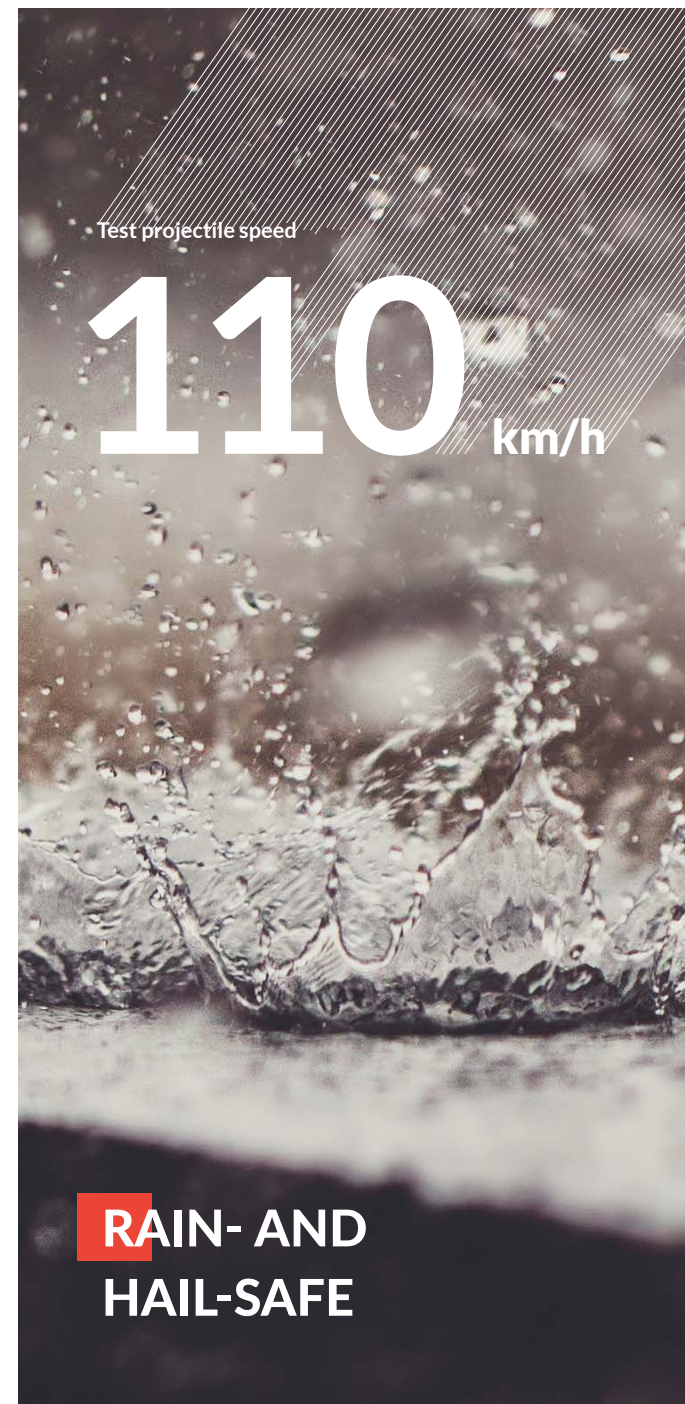
## Wood fibre's naturally inherent resiliency

GUTEX insulation boards and batts, made from Black Forest wood, are elastic yet feature ample flexural strength and compression-resistance. TÜV hail tests performed on 60 mm GUTEX Ultratherm® using a 110-km/h travelling projectile produced only an insignificant dent, which didn't compromise the substructure. As you can see, with GUTEX, you have every reason to feel safe and sound in your home.

**Feeling safe and comfortable in severe weather. That's the GUTEX effect.**

## NOTE

GUTEX makes life easier in many ways for contractors and homeowners. For example, our roof refurbishment system can remain uncovered for up to 12 weeks, even when it hails.

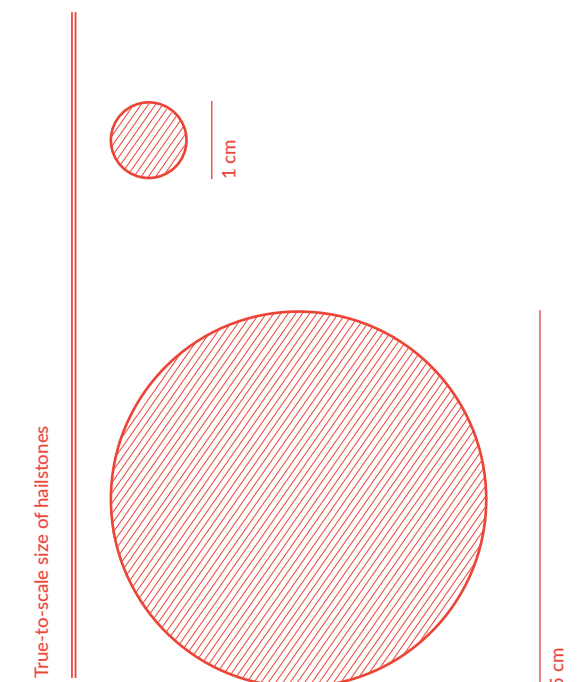


## TÜV-verified hail resiliency

Hail protection rating HW4 for GUTEX substructure boards 35 mm and greater. Highest rating of HW5 for 60-mm and greater GUTEX Ultratherm®.

## One tough character

Tests performed by TÜV Rheinland found that a 5-cm projectile propelled against GUTEX Ultratherm® at 110 km/h failed to compromise the performance of the product.



## GUTEX SARKING AND SHEATHING EXCEED REQUIREMENTS IN NEW AND REFURBISHED APPLICATIONS

- TÜV-verified hail protection
- Proven rain-tight for roof pitches greater than 15°
- Regulate humidity and moisture
- Strong
- Wind-tight
- Excellent protection against heat



More about protecting against the weather at: [www.gutex.de](http://www.gutex.de)



**OUT THERE,  
THE ENERGY  
SHORTAGE  
THREATENS.**



**AT HOME,  
ONLY THE  
MOTHER-IN-LAW.**



THE  
GUTEX  
EFFECT

NATURALLY EFFICIENT

**LIVE  
SAVING  
RESOURCES**

Intelligently made and installed insulation systems help significantly reduce energy use and emissions. By choosing such a system, you have reason to feel good about what you're doing, because you're saving resources while securing the value of your home for years to come. Such a system requires little maintenance, too. With GUTEX wood fibre insulation, you live more naturally. And more intelligently.

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Leaving Earth better  
than you found it.  
That's the  
GUTEX effect.





**GUTEX GIVES  
YOUR  
VALUE  
LONGEVITY.**



Has your house been around a while? Give it a facelift with a GUTEX facade insulation system best suited to your taste and needs. Individually designed, durable and long-lasting GUTEX systems are diffusion-open, allowing moisture to dissipate and therefore eliminating media for mould and mildew. Your grandchildren will thank you!

**TEMPORARY  
PATCHWORK?**

# PRESERVE THE HEALTH OF YOUR BUILDING

*Nobody enjoys seeing the same old dull face – on a person or a building. A grey, cracked moss- and mould-afflicted facade does your house no justice – neither aesthetically nor structurally. Rejuvenate your house with one of GUTEX's state-of-the-art façade systems and everyone will smile. Even the façade.*

## Wood fibre has something against moisture, mould and mildew

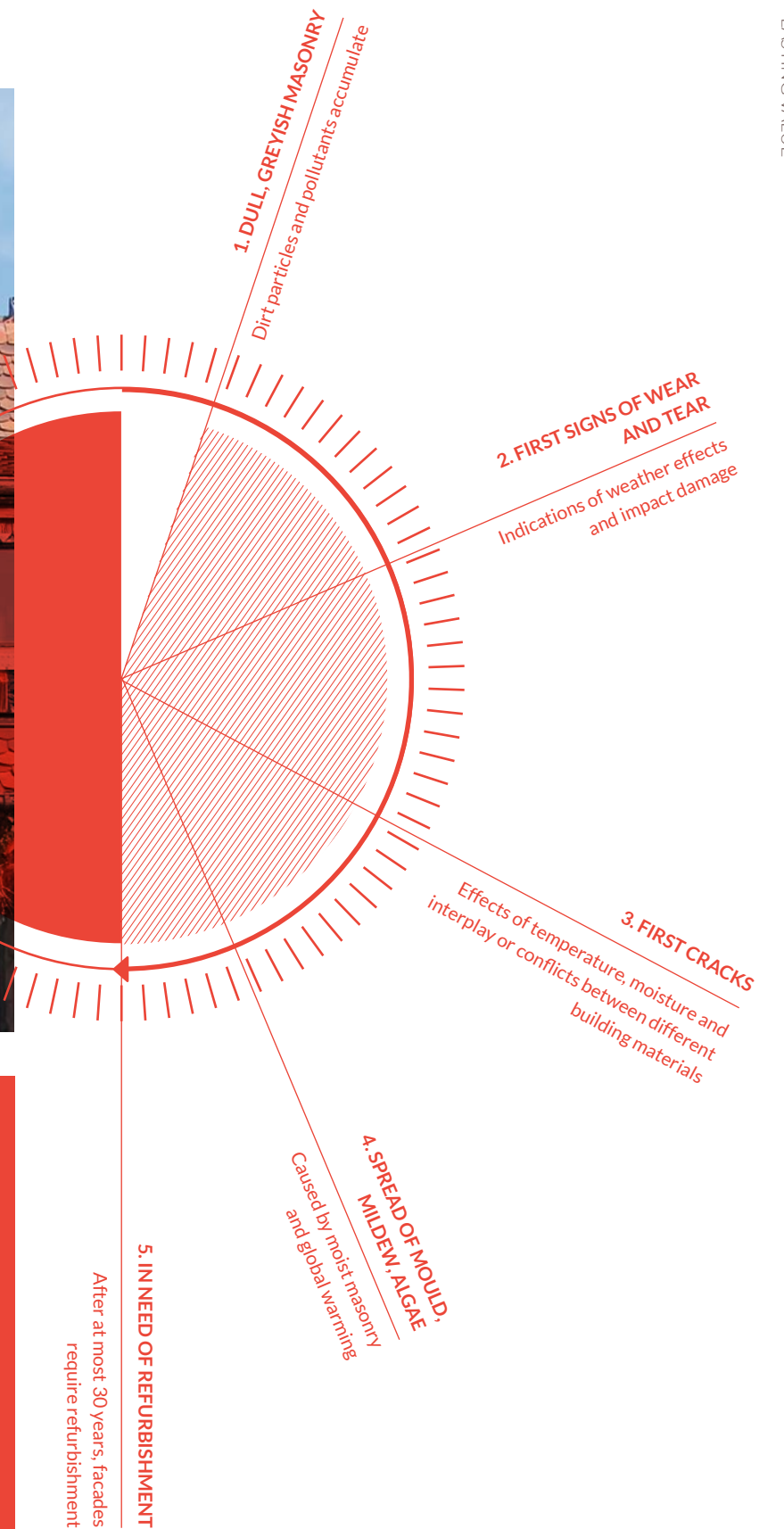
Roughly 83 percent of old building facings display cracks, blistering and spalling, which may be the result of structural shifting, settling or just wear and tear. Possible causes of wear and tear may be the interplay of building material incompatibilities, temperature and moisture. If left unattended, the effects may be severe, as cracks may allow moisture to penetrate and damage masonry and make the building's interior damp. Things may become even worse if the insulation is poor. And damp masonry and insulation will certainly affect your comfort indoors.

Not just your building suffers under mould and mildew, though, but your need for aesthetic quality as well. To blame for this dilemma are often global warming and the new, unprotected and energy-efficient way homes are built. Another factor is cleaner air, which is better for all living creatures, including microorganisms. In rural areas, buildings located near or in wet areas have increased susceptibility to mould and mildew, as well.

## Add the value of uniqueness to your home

Look around, you'll soon realize the facades of new and refurbished houses almost always look alike. Yet there are so many ways to give your house a unique personality. Whether render, wood, slate or zinc, if you chose a GUTEX façade insulation, your dreams will have no bounds. And moss and mould will have no chance, since wood fibre insulation cools more slowly than the air, meaning less condensation forms on the façade coating's surfaces. Fraunhofer Institut für Bauphysik, a very reputable building science institute, has verified this.

**Your dream house with a bright future. That's the GUTEX effect.**



## GUTEX FACADES HAVE IT ALL

- Ideal for problematic substrates, i.e. irregular substrates, half-timbered structures, etc.
- Mature, fully developed system adapts to specific conditions for just about any application
- Strong, impact-resistant and long-lasting
- Naturally protective, limiting growth of mould and mildew
- Makes homes significantly more energy-efficient, thanks to non-thermal-bridge installation

## Wood fibre insulation

Protects against the weather, mould and mildew, while increasing the aesthetic and monetary value of your house.



You'll find more about adding lasting value to your house at: [www.gutex.de](http://www.gutex.de)

**BE MORE  
EFFICIENT!**

**GUTEX  
MAKES IT  
EASIER.**



THE  
GUTEX  
EFFECT



In reality, energy is priceless. No honest person would deny the need to personally consume less. When it comes to our homes, where we spend most of our lives, we can do a great deal. Reduce your energy consumption and carbon footprint significantly with GUTEX wood fibre insulation, easily and quickly!



# TIGHTEN UP ON YOUR EXPENSES

*In Germany, 41 percent of the energy consumed is used in buildings – 80 percent for heating. Chances are, your circumstances are similar. So if you want to do something for the environment and your wallet, you need to lower your energy consumption for heating.*

## Wood plugs financial holes

Since only 20 percent of your energy use is for hot water, lighting and appliances, your first step, and a very effective one, in fact, should be improving heating efficiency. Insulation is vital here to getting the most out of your heating system because it keeps the heat in your house. GUTEX's carefully engineered products and systems with wood fibre insulation will do this for you ecologically and economically.

## Energy refurbishment pays in many ways

The higher your energy usage is, the higher are your costs and impact on the environment. Germany, and other countries have introduced legislative measures to cut carbon emissions. Most of them provide financial and tax incentives for the energy-efficient refurbishment and building of houses and buildings. Contact your GUTEX sales agent to learn more about the specific programmes and incentives available to you where you live. It's worth your call!

**Savings. That's the  
GUTEX effect.**

## SUSTAINABLE WITH IMMEDIATE RETURNS

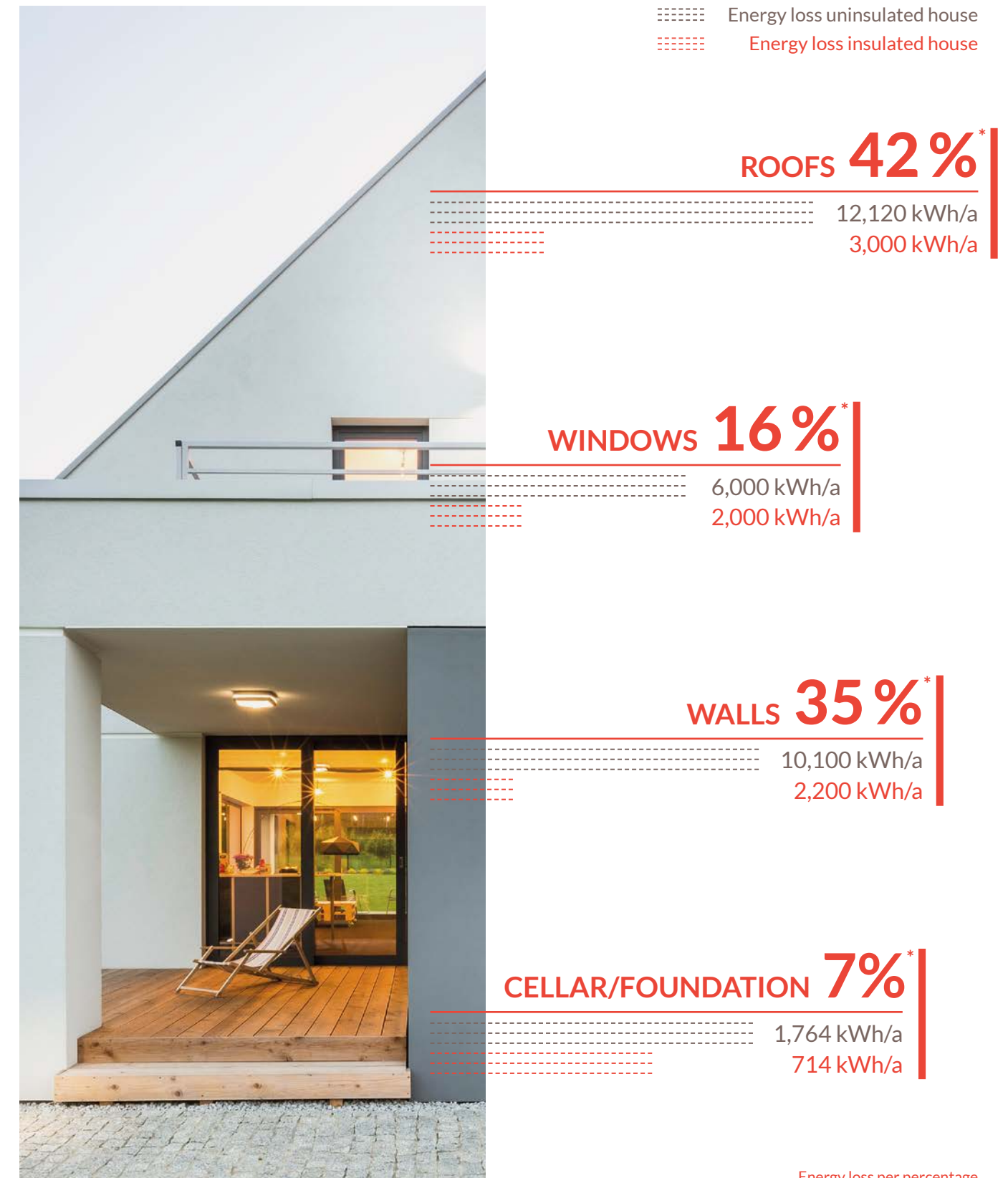
Efficient thermal insulation is an investment that pays for itself immediately with lower heating bills.



Learn more about energy efficiency at: [www.gutex.de](http://www.gutex.de)

## Less energy loss, more savings

A building insulated with GUTEX products can in winter – given the right conditions – cut your heating expenses by 50 percent compared to a poorly insulated building, leaving you less affected by increasing energy costs.



Source: dena (German energy agency)





### EXPERTISE AT WORK

Ideal results thanks to close cooperation with qualified trade partners

### INTRICATELY FUNCTIONING SYSTEMS

Perfect interaction thanks to skilled integration



### ATTENTION TO DETAIL

Thermal-bridge-free design delivers higher efficiency

### THE BEST DEFENCE

Longevity and durability thanks to superb raw materials and high-quality manufacturing

# EFFECTIVE INSULATION IS NOT A PRODUCT OF CHANCE

*We incorporate innovative thinking, new technologies and local wood, the latter obtained from the Black Forest using sustainable forestry practices, into intricate, perfectly matched ecological products and systems.*

Our products and systems do more than provide you with wholesome living and a value-sustainable home. They improve the quality of life for you, the other Earth inhabitants and our Earth. The GUTEX product range is tested, proven, long-lasting and safe. You'll find solutions for every climate zone, substrate and requirement.

**Carefully engineered and highly effective. That's the GUTEX effect.**

#### Functionally integrative systems

Our systems do more than individual products do. And they're just better in terms of workability, effectiveness, quality.

#### THERMOWALL ETICS®

An ecological external thermal insulation composite system (ETICS) creates a comfortable, healthy indoor environment while drastically reducing energy costs.

#### DURIO®

This eco facade insulation system permits you to retrofit problematic existing façades, such as uneven masonry or half-timbered substrates, etc., whilst allowing you to design as you fancy.

#### IMPLIO®

A precision-engineered integral system with quality-built components, leaves nothing to chance for the weather-tight, thermal-bridge-free integration of windows in ETICS.

#### TECADIO®

This roof refurbishment system with rain-tight, hail-resistant sarking and moisture regulating between-rafter insulation delivers maximum effectiveness.

#### INTEVIO®

Our ecological Thermoroom interior insulation system provides indoor comfort efficiently, with installation taking place independent of outdoor weather and without the need for scaffolding. Ideal for the retrofitting of buildings with rental units, one room after the other, etc.



## ❖ 10,000 FACETS

The quest for quality permeates every facet of what we think and do.

## ❖ THE MEASURE

Our objective is to provide you, your children and future generations with the best products, crafted from the best raw materials, and the best possible service.



## ❖ FOCUS

To ensure consistent quality and reduced environmental impact, we have striven to comply, since 1995, with the various DIN and Eco-Management and Audit Scheme (EMAS) stipulations and guidelines.

## FIELD OF VISION ❖

Our call to lead in quality compels us to keep broadening our field of vision to anticipate tomorrow's standards.

# QUALITY HAS MANY FACETS

*Quality assurance begins for us with our procurement of raw materials and continues through to the recyclability of our products and systems. We take our responsibilities to the environment and our stakeholders, the latter encompassing society and the needs of you, our coworkers and our business partners, very seriously.*

### Quality not just a word

We have a reputation for leading when it comes to quality. It's something we've put a lot of hard work into and it means we stand behind our products, systems and service. Always! The skill and knowhow of our team along with their unwavering dedication to our mission; the fact we remain a family-owned and run company; our Black Forest, sustainably-harvested wood; and our manufacturing according to environment-friendly standards where quality wood grows in Waldshut-Tiengen, Germany mean superior quality for you.

**Good for you and the environment.  
That's the GUTEX effect.**

### Not just a vague concept

The fact that we regard the environment and product quality as inseparable is apparent in our certifications and verified compliance, going back to 1995: DIN EN ISO 9001, DIN EN ISO 14001 and EMAS II. Moreover, our products and systems meet biological safety standards, as shown by our natureplus® seal of quality. And of course, our products carry the CE mark and are DIN EN 13171-compliant. These standards help us stay our course.

### CERTIFIED QUALITY

- As per DIN EN ISO 9001 for quality management, DIN EN ISO 14001 for environmental management and as per Eco-Management and Audit Scheme (EMAS II)
- As per DIN EN 13171, an EU manufacturing code for wood fibre products
- CE mark
- natureplus® seal of quality
- Ökotest "Very Good"



More about our verified quality at: [www.gutex.de/quality](http://www.gutex.de/quality)

# MAINTAINING THE BALANCE

*Nature provides us with a wonderful raw material that has superb thermal and climate-regulating qualities. Out of gratitude, we see ourselves indebted to treat Nature and the environment with utmost respect, while preserving them and their benefits for our next generations.*

There are many ways to show Nature our gratefulness, including our water usage, use and management of raw material and additives, building and refurbishing practices and materials. By using insulation obtained by means of environment-friendly manufacturing from renewable resources, manufacturer, tradesperson and homeowner make a significant contribution to protecting our climate and Nature.

## Sustainable Forestry

The raw material for every GUTEX wood fibreboard comes solely from wood harvested and grown using sustainable forestry management practices as per PEFC and FSC standards. GUTEX uses exclusively untreated spruce and fir chips and shavings that are byproducts produced by other timber manufacturing processes. Moreover, the sawmills from which GUTEX obtains its chips and shavings are all located near our plant in the southern Black Forest town of Waldshut-Tiengen.

## Ingenuity to serve people and Nature

GUTEX combines that typical Black Forest dedication to quality, the infatuation with new ideas and ways of doing things, and the drive to answer the future's needs today. This mix breeds innovative insulation solutions, such as the world's first dry manufactured single-ply homogeneous insulation fibreboard. Used since 2006, this process doesn't just deliver better quality and workability, rather it cuts carbon emissions and energy usage by 40% compared to wet processes. That's an enormous step for the environment. And it's what GUTEX is about: innovating for humankind and Nature.

**Sustainable building and refurbishing. That's the GUTEX effect.**

## ECOLOGICAL FOOTPRINT

GUTEX's use of innovative, environment-friendly technologies lowers energy usage by 40 percent.

## GENUINE PROGRESS

At GUTEX, we put our innovative technologies to work for the good of humankind and Nature. Every house fitted with our wood fibre insulation mitigates carbon in the atmosphere.

## LOCAL IS BETTER

No denying it, we're more particular about our own backyard, which is why we source sustainable, FSC- and PEFC-certified raw material locally.

## WASTE NOT, WANT NOT

We process every chip we source, wasting nothing.

## FEELS NOTICEABLY MORE COMFORTABLE

Since the first minute

## EXCITING NEW PERSONALITY

Thanks to freedom of individual design

## ENERGY-EFFICIENT REFURBISHMENT

Uncomplicated and quick

## INSULATING THE SUSTAINABLE WAY

Good for the the life of the building

# WELCOME THE GUTEX EFFECT INTO YOUR HOME.

*Rest assured, when you need us we'll be there for you, in word and deed, versatile and dependable. Tap into our knowledge and experience. We'll be glad to assist you!*

### Qualified assistance

Your continued satisfaction is what means the most to us and drives us to provide you consistently with the best and most qualified products and assistance.

### Qualified training

Rightfully, you expect the most from our products, which is why we provide architects, merchants and tradespeople with the best possible training in the use of our systems as well as workshops and talks about building science, building and application. The more informed they are, the better they can serve you.

### Qualified time saving

Time, money and nerves are the costs customers pay for products. We do our best to limit these costs by providing perfectly integrated products and system solutions that perform as easily as advertised. But should you ever have questions, no matter how big or small, you can speak to a qualified technician via our hotline.

**Knowing you've done the right thing. That's the GUTEX effect.**

### **i** QUICK ACCESS TO INFORMATION

Would you like to learn more about our products, our systems and us? Are you a trade partner, looking for installation and use guidelines, construction suggestions with performance ratings or estimates, specifier text, CAD drawings, fire and acoustic insulation test certificates, fixation data or perhaps something else? You'll find a wealth of information at:

[www.gutex.de/service](http://www.gutex.de/service)

# IMPRINT

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