

# THE WOOD FIBRE

# BLOW-IN INSULATION

Insulate more effectively while increasing profit

Onsite and offsite blow-in wood fibre

 | Retail

## INVEST NOW IN BLOW-IN CAPACITY AND IMPROVE YOUR BOTTOM LINE

### GUTEX Thermofibre® is the future of blow-in wood fibre cavity insulation

Wood fibre insulation is very good. But blow-in wood fibre insulation is even better. Why? Because it installs more efficiently, which means the ecological benefits wood fibre brings to the table, such as wholesomeness and sustained house value, are available to your customers at a lower cost to you. Now is the time to invest in the state-of-the-art GUTEX Thermofibre® blow-in insulation. Optimise your operations and profits ahead of your competitors.

#### Very economical

- › Quicker installation
- › Lower labour costs
- › No waste and no disposal costs
- › Less storage space required
- › Significantly lower price for the trade – especially for blow-in insulation from renewable raw materials, such as wood fibre

#### Dependable performance compliant with best building science practices

With blow-in wood fibre, you can fill cavities uniformly and completely right up to the last nook and cranny! As a result you achieve:

- › Uniformly installed insulation
- › Thermal-bridge-free joints





### Greater flexibility

Usually, you need to have various insulation thickness and sizes on hand for the insulation of exterior wall, interior wall, ceiling or roof cavities. Not with blow-in wood fibre. You have:

- › Just one insulation for every cavity size and shape
- › Opportunity of storing your insulation distant from the project or work site

### Improved work safety and less environmental impact

Work with conventional insulation batts requires workers to wear masks and gloves to protect against dust. Moreover, waste is unavoidable. Using blow-in insulation allows you to profit from a cleaner, dust freer workplace and the absence of waste.

### Higher quality

Blow-in wood fibre fills cavities homogeneously regardless of their geometry, dimension or service installation. And there are no joints! Uneven substrates, non 90° corners, unusual shapes, etc. are no problem with this product, unlike batts, which require time to cut and shape. Just be sure to follow the guidelines for minimum density and settling will not be a problem



#### THOSE WHO INVEST NOW WILL PROFIT LONG-TERM

With blow-in insulation, you'll insulate:

- › Faster
- › In compliance with building science guidelines
- › With less personnel
- › And require less storage space

### Minimum cavity size

Profit from the advantages of advanced blow-in technology that is suitable for cavities 15 cm wide and approx. 8 cm deep or greater.



Examples of refurbishment applications with GUTEX Thermofibre®

# INSULATE MORE EFFECTIVELY AND MORE PROFITABLY

## Consistent high-quality

No other blow-in wood fibre insulation has the consistently high degree of quality that GUTEX Thermofibre® has. For this reason, it delivers the most dependable performance and is the most economical solution, for both you and your customers: In addition, you profit from the following advantages:

- › Extremely uniform thermal insulation thanks to homogeneous density
- › Quick installation and excellent distribution and filling in cavities thanks to more consistent quality and better flowing fibre
- › Strong fibres that interlock better to deliver dependable non-settling performance

## Less material per job, lower wholesale costs

To achieve the targeted insulation performance with GUTEX Thermofibre®, you need less material than with all the other blow-in wood fibre insulation products on the market. Since the fibre interlocks better, GUTEX Thermofibre® provides maximum anti-settling protection already at relatively low densities:

Minimum Blown-in Density	
Loose fill	25 kg/m <sup>3</sup>
Cavity fill	29 kg/m <sup>3</sup>
Prefab timber cassettes (off-site manufactured)	38 kg/m <sup>3</sup>

## LOW-EMISSION INSULATION MANUFACTURED FROM SPRUCE AND FIR

GUTEX manufactures its Thermofibre® exclusively from Black Forest spruce and fir that we obtain solely from sustainable forest management. For this reason, the VOC emission levels associated with GUTEX Thermofibre® are the lowest.





### Excellent protection against heat

In winter, GUTEX Thermofibre® cuts heating costs thanks to its low thermal conductivity of  $\lambda$  0.040W/mK. And in summer, its high density and high volumetric heat capacity keep indoor spaces pleasantly cool.



### Good acoustic insulation

Thanks to its high bulk density and airflow resistivity, GUTEX Thermofibre® keeps noise outside.



### Good fire protection

In the event of fire, GUTEX Thermofibre® chars on the surface, creating a protective layer that slows burning and protects the structure.



### Wholesome indoor environment

GUTEX Thermofibre® possesses superb humidity buffering, diffusion openness, and sorption capability, which explains why it's so effective when it comes to moisture management:

- › Excellent moisture buffering
- › If installed in combination with diffusion-open sheathing, siding, etc., provides highly effective release of moisture
- › Excellent protection for building substance and structures



### Exceptional ecobalance

GUTEX Thermofibre® is wood. Because it contains trapped carbon, it mitigates atmospheric carbon. But it also is fully recyclable, for example, in the manufacture of new wood fibre products. At the end of its lifecycle, the wood fibre processes in wooden containers by a system that converts the material into steam or electrical energy, eliminating the need for fossil fuel carriers.



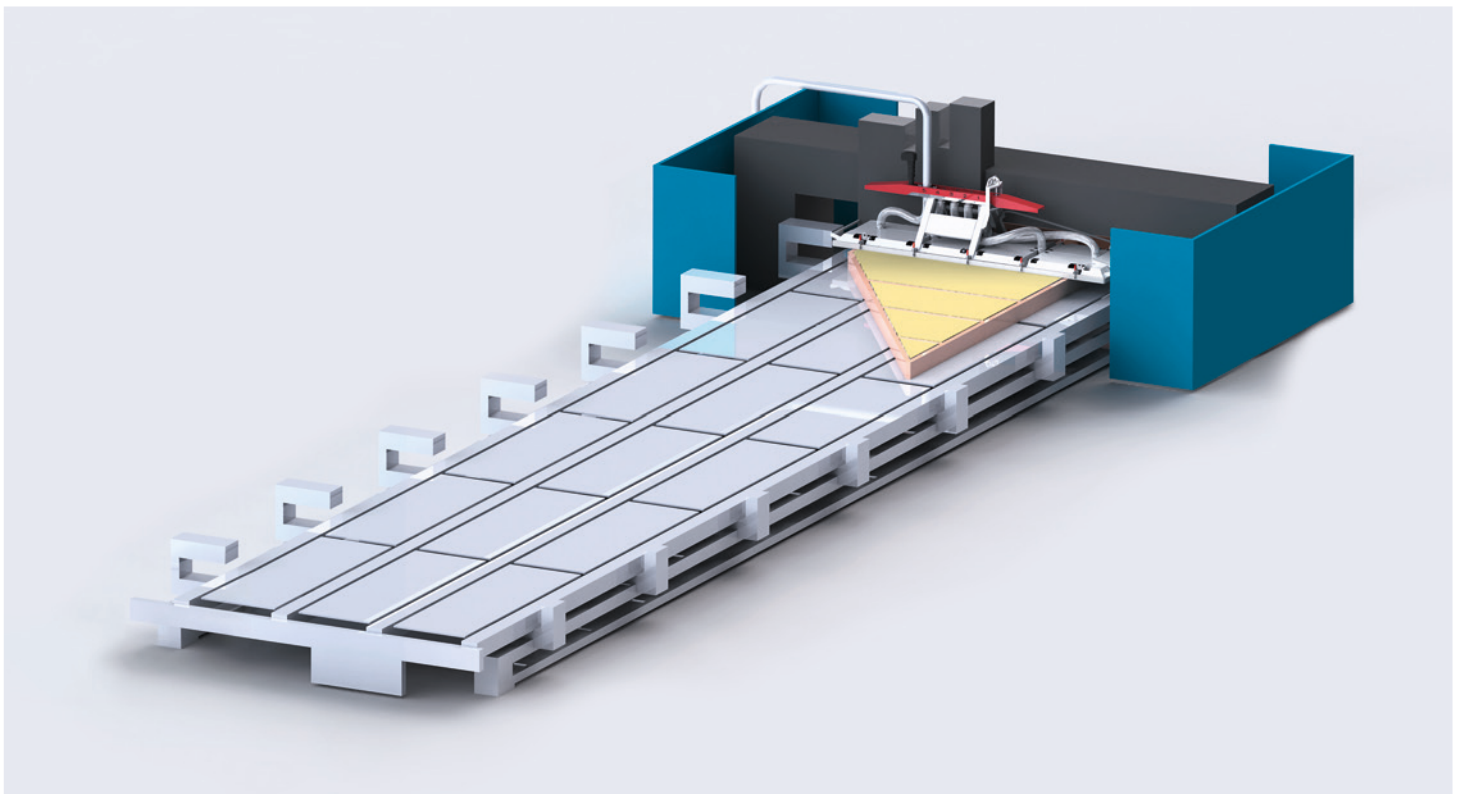
### WHEN BLOW-IN INSULATION, THEN GUTEX THERMOFIBRE®

- › No other has the consistent high quality
- › None is lower priced for the trade
- › None has less emissions

# BECAUSE WOOD FIBRE INSULATED PREFAB HOUSES ARE PROFITABLE FOR YOU

## Your competitive advantage and bottom line

Perhaps you've been aware of the benefits of wood fibre insulation for a while, but because of the cost, you've been using another type of insulation. Well thanks to GUTEX Thermofibre® and the most advanced blow-in technology, it just became profitable for you. GUTEX Thermofibre® has the best flow and settling properties of all wood fibre insulations on the market. And its price is better than comparable mineral insulation.



## Prefab with Einblastechnik 4.0 by HOMAG-WEINMANN

State-of-the-art CNC-operated multifunctional blow-in unit integrates seamlessly into automated production lines to manufacture blown-in cassettes, giving you the following advantages:

- › Fully automated CAD data transfer
- › Fully automated cassette positioning
- › Fully automated blow-in of material with automatic sensing of fill volume
- › Fully automated quality assurance

## GUTEX Thermofibre® - Fast and consistent

Key to exploiting the benefits of the automated blow-in production line is without question the quality of the blow-in wood fibre. GUTEX Thermofibre® is not only the most consistent, it actually flows so smoothly, you'll be amazed at your process' throughput quality and speed.





### One tough character! GUTEX thermofibre® won't settle for anything above a density of 38 kg/m<sup>3</sup>

On the production line, in transport, and finally installation on the building site, before prefab cassettes arrive at their final resting place they're subject to a great deal of impact, shaking and vibration. No problem with GUTEX Thermofibre®:

- › Consistent fibre quality ensures the density will be homogenous
- › Excellent fibre flow facilitates optimum distribution
- › Fibre strength and structure provide excellent and enduring fibre interlocking in the fibre fill

What does this mean for you?




**Maximum insurance against settling at fill densities of 38 kg/m<sup>3</sup> and greater!**



### GUTEX THERMOFIBRE® AND EINBLASTECHNIK 4.0 (AUTOMATED BLOW-IN MACHINE) – A SOLID BASIS FOR YOUR PROFITABLE OPERATIONS

- › Lower labour costs
- › Increased production thanks to increased output
- › Smaller production floor footprint and volume
- › Elimination of disposal costs
- › Superb installation quality
- › Dependable non-settling performance
- › Highly compliant with best building science principles and objectives: healthy indoor environment, all-season thermal insulation, acoustic insulation, fire protection, no thermal bridges
- › Key building block for sustainable building

## PRODUCT INFORMATION

Technical Information	
 Nominal thermal conductivity $\lambda_D$ (W/mK) as per ETA	0.039
 Thermal conductivity $\lambda$ (W/mK) default value as per ETA	0.040
 Thermal conductivity $\lambda$ (W/mK) default value as per SIA	0.038
Vapour diffusion factor ( $\mu$ )	1-2
Air flow resistivity (kPa·s/m <sup>2</sup> )	$\geq 5$
Specific heat capacity (J/kgK)	2,100
Blown-in density (kg/m <sup>3</sup> )	
unenclosed	25*-30
enclosed (cavities)	29*-50
Prefab timber cassettes (offsite manufactured)	38*-50
Fire reaction Euro Class as per DIN EN 13501-1	E
Disposal: European Waste Catalogue code:	030105 / 170201
Wood disposal class	A II
European Technical Approval	ETA-12/0181

\* Minimum density to prevent settling

Packaging Unit (for others, ask)	GUTEX Thermofibre®	GUTEX Thermofibre® UV
Bales [cm] (L x W x H)	80 x 40 x 33 w. polyethylene	80 x 40 x 33 unpackaged
Bale weight (kg)	15	15
Bales (packages) per pallet	21	18
Weight per pallet (kg)	315	270

Accessories	
GUTEX Lochsäge HF (hole saw)	Ø 106.5 mm

### Composition

- › Fresh Black Forest fir and spruce
- › Flame retardant: 5 % ammonium salt added to improve fire protection

### Applications

- DZ Cavity insulation: joists /rafters
- WH Cavity insulation: timber frame and prefab cassettes
- WTR Cavity insulation: partition walls
- WI Interior insulation of walls
- DI Interior insulation of ceilings





# APPLICATIONS AND SOLUTIONS



## Roofs

- › Tecadio® GUTEX roof refurbishment system
- › Above-rafter insulation
- › Sarking boards
- › Flat roof insulation
- › Cavity insulation (GUTEX Thermoflex® batts)
- › **Cavity insulation**  
(GUTEX Thermofibre® blow-in insulation)

## Interior

- › Intevio® GUTEX interior insulation system
- › Vapour permeable underlay installed from interior between rafters
- › Rafter underside insulation boards
- › Insulation under screed (dry / wet)
- › Top storey ceiling
- › Suspended ceiling
- › Solid wood flooring / Solid wood plank flooring
- › Service cavity insulation course
- › Partition walls
- › Cavity insulation (GUTEX Thermoflex® batts)
- › **Cavity insulation**  
(GUTEX Thermofibre® blow-in insulation)

## EXTERIOR WALLS

- › Thermowall® ETICS  
Exterior Thermal Insulation Composite System
- › Render
- › Rainscreen
- › Brick facing
- › Durio® GUTEX system for unique facade design
- › Implio® GUTEX window integration system
- › Cavity insulation (GUTEX Thermoflex® batts)
- › **Cavity insulation**  
(GUTEX Thermofibre® blow-in insulation)







# ADVANTAGES



Best protection against the heat



Insulation in winter



Wholesome indoor environment



Ideal acoustic insulation



Very economical



Sustainability



Service

## Certified quality

Like all GUTEX products, only fir and spruce obtained from the Black Forest using sustainable forestry practices go into GUTEX wood fibre insulation – truly the best basis for high quality wood fibre insulation. In addition, the nature-plus® certificate indicates the product is biologically safe and manufactured using environmentally safe techniques and practices. It also verifies its suitability and usability for the specified applications.



## OUR PRODUCT AND SERVICE DESIGNATIONS



Roof



Wall



Interior

## Technical contact

Jan-Hermann Hasemann  
Telefon: +49 151 26 11 50 94  
hasemann@gutex.de

## Ecological Building Systems

For stockist information and full technical support for your project, please contact Ecological Building Systems or visit [www.EcologicalBuildingSystems.com](http://www.EcologicalBuildingSystems.com)



Ireland: 046 9432104 Fax: 046 9432435 UK: 01228 711 511 Fax: 01228 712 280

[info@EcologicalBuildingSystems.com](mailto:info@EcologicalBuildingSystems.com)