

# The natural high-tech impact sound insulation

for healthy living

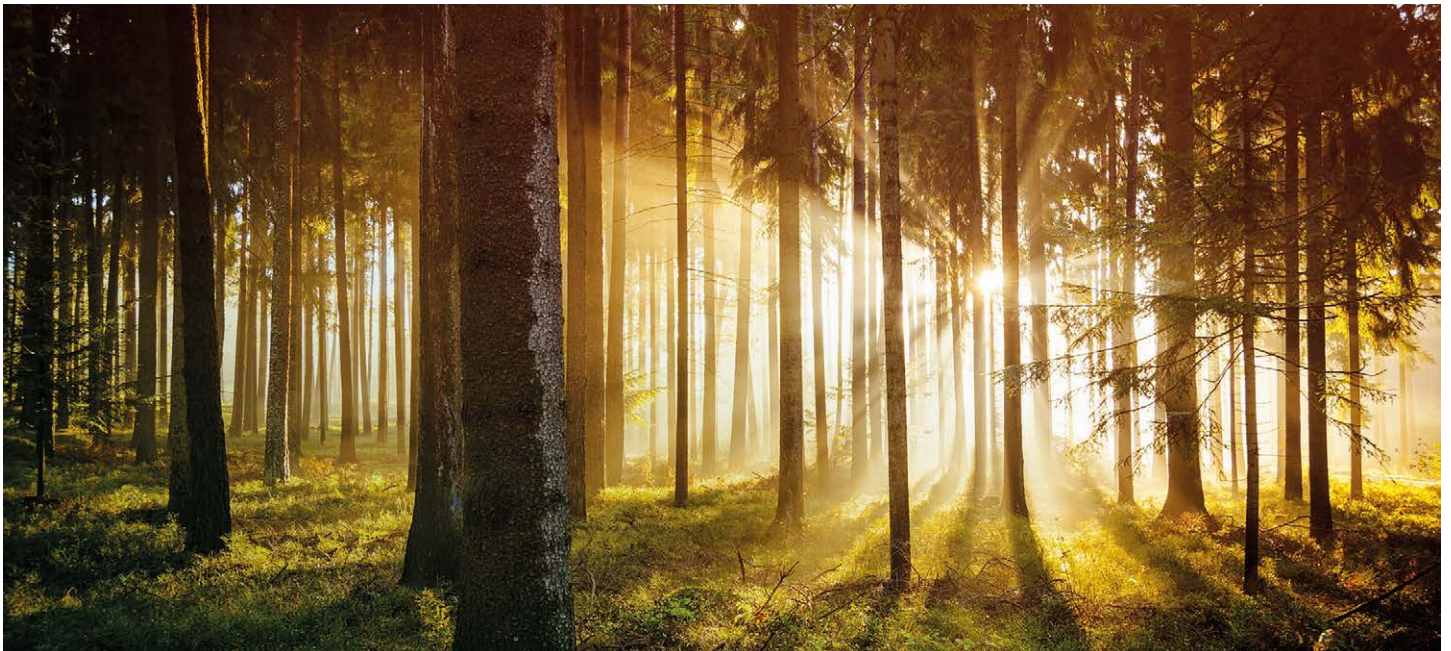


## **MAKES YOUR HOME A MORE PEACEFUL PLACE – NATURALLY!**

The simple way to peace and quiet – natural and sustainable

Wood, by its very nature, is a highly effective insulation material. Thanks to a unique production process, the KATZ Group has succeeded in developing a material made of regional wood pulp fibres and optimising it to meet the flooring industry's high standards for insulation underlays. This high-tech material is called GREEN LIGNIN.

Offering outstanding acoustic and building-physical properties under laminate, parquet, cork, vinyl and designer flooring, GREEN LIGNIN helps boost the durability of the top flooring while providing excellent impact and room sound insulation. It creates a quieter, more peaceful living environment – without using plastics. Whether building a new property or refurbishing an old one, GREEN LIGNIN impact sound insulation systems are the perfect choice to keep homes healthy, comfortable, non-polluting and noticeably quieter.



# GREEN LIGNIN PRODUCTS

The simple way to peace and quiet – with a versatile range of uses

**GREEN LIGNIN** basic



## **GREEN LIGNIN basic**

Designed for floating installation under laminate, parquet, cork, vinyl and designer flooring.

**GREEN LIGNIN** anti-slip



## **GREEN LIGNIN anti-slip**

Designed for floating installation of modern vinyl and designer flooring up to 5mm thick.



**GREEN LIGNIN** hydro-tec



## **GREEN LIGNIN hydro-tec**

With water-repellent properties for floating installation under parquet, laminate, vinyl and designer flooring. Developed to meet the most demanding requirements.

**NEW! WITH CONNECTING SYSTEM** 

PRODUCT INFORMATION		BASIC	ANTI-SLIP	HYDRO-TEC
<b>Material</b>		Biopolymer	Biopolymer with anti-slip coating	moisture-repellent Biopolymer
<b>Material thickness</b>		1.8 mm *	1.8 mm	1.8 mm *
<b>Grammage</b>		692 g/m <sup>2</sup>	708 g/m <sup>2</sup>	692 g/m <sup>2</sup>
<b>Bulk density</b>		384 kg/m <sup>3</sup>	393 kg/m <sup>3</sup>	384 kg/m <sup>3</sup>
<b>Impact sound insulation under laminate flooring</b>	IS	up to 22 dB	-	up to 22 dB
<b>Impact sound insulation under vinyl flooring</b>	IS	up to 18 dB	up to 20 dB	up to 20 dB
<b>Room sound insulation</b>	RWS	up to 42 %	-	up to 29 %
<b>Compressive strength</b>	CS	992 kPa	> 1000 kPa	992 kPa
<b>Compressive creep</b>	CC	> 50 kPa CC3	> 50 kPa CC3	> 50 kPa CC3
<b>Pressure stability</b>		99 t/m <sup>2</sup>	102 t/m <sup>2</sup>	99 t/m <sup>2</sup>
<b>Castor chair test (stress category)</b>		SC 31-33 25,000 rotations	SC 31-33 25,000 rotations	SC 31-33 25,000 rotations
<b>Dynamic load</b>	DL	> 100.000 cycles DL2	> 100.000 cycles DL2	> 100.000 cycles DL2
<b>Thermal resistance</b>	R	0.0343 m <sup>2</sup> K/W	0.0316 m <sup>2</sup> K/W	0.0343 m <sup>2</sup> K/W
<b>Suitable for click systems</b>		✓	✓	✓
<b>Standard trade/resale packages</b>		790 x 590 mm 15 sheets approx. 7 m <sup>2</sup>	780 x 560 mm 16 sheets approx. 7 m <sup>2</sup>	790 x 535 mm 17 sheets approx. 7 m <sup>2</sup>
<b>Trade/resale packages with connecting system</b>		780 x 530 mm 18 sheets approx. 7 m <sup>2</sup>	780 x 530 mm 18 sheets approx. 7 m <sup>2</sup>	780 x 530 mm 18 sheets approx. 7 m <sup>2</sup>
<b>Reels for industrial application</b>		✓	-	✓

Specific values determined in accordance with DIN EN 16354. The values comply with the requirements stipulated by the EPLF and the MMFA \* Other thicknesses available on request.

# GREEN LIGNIN PROPERTIES

The simple way to peace and quiet – with remarkable benefits



outstanding insulation performance



highly durable



compatible with underfloor heating



supports a healthy living environment



easy to handle



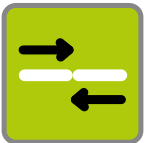
compatible with modern click systems



eco-friendly and recyclable



antistatic



good anti-slip effect  
**GREEN LIGNIN anti-slip**



water resistant hydro-tec technology **GREEN LIGNIN anti-slip** and **hydro-tec**



new connecting system

# THE GREEN LIGNIN HIGH-TECH MATERIAL

The simple way to peace and quiet – sustainable, “made in Germany”

Our company's headquarters in the Black Forest covers the entire GREEN LIGNIN value chain. KATZ has tailored its production process to create optimum material properties, efficiency and sustainability. To ensure we meet our customers' expectations and satisfy our own high standards, all our products are tested by independent organisations and institutes.



## MATERIAL

GREEN LIGNIN products are made from natural ingredients. And it's easy to count the ingredients from which the core of the material is made – just wood + starch.

## RAW MATERIALS

To produce GREEN LIGNIN products, we use local wood from sustainably managed forests within a 200 kilometre radius and water that flows right past our gates.

## PRODUCTION PROCESS

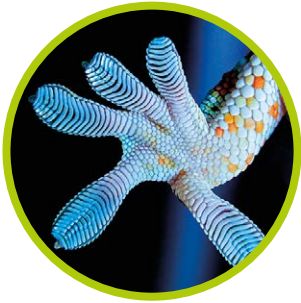
We take an eco-friendly and sustainable approach to our production process, using a state-of-the-art heat recovery system and two in-house hydro plants to maximize energy efficiency and a closed water loop to conserve resources.



# GREEN LIGNIN TECHNOLOGIES

The simple way to peace and quiet – ingeniously developed

GREEN LIGNIN offers some remarkable material properties, thanks to our innovative technologies inspired by nature. It truly is the perfect insulation underlay for natural, healthy living.



## GECKO EFFECT

Thanks to their special surface structure, GREEN LIGNIN products cling to the top layer of flooring like a gecko, achieving outstanding acoustic properties that lead to reductions in both impact and room sound.



## BIOPOLYMER STRUCTURE

Lignin supplies the mechanical support that binds fibres together in our biopolymer material, providing KATZ impact sound insulation with enhanced resilience and cell wall stability.



## ANTI-SLIP TECHNOLOGY

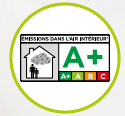
Thanks to its high coefficient of friction, the innovative anti-slip coating prevents damage to the click system used in floating vinyl and designer flooring.



## HYDRO-TEC TECHNOLOGY\*

The hydro-tec technology encapsulates the GREEN LIGNIN fibres, providing temporary protection against moisture.

\* Only suitable for indoor use, water-repellent impact sound insulation. Not suitable for use in wet zones (it is important that no moisture penetrates the upper layer of flooring).



Guaranteed non-polluting  
and emission-free:  
the "A+" certificate



PEFC Label



Guaranteed  
technically approved:  
the "U" certificate



Made in Germany



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