JACKOBOARD® LIGNIN



Bathroom design reimagined with bio-based lignin and recycled material



Bathroom design reimagined

***JACKOBOARD® LIGNIN** marks the beginning of a new generation of tileable construction boards. At its core, the construction board combines bio-based lignin with recycled polystyrene and uses alternative raw materials instead of relying exclusively on virgin fossil raw materials.*

*Proven processing and product properties meet an innovative material concept.
Electricity from renewable energy sources is used in production.*

***JACKOBOARD® LIGNIN** expands the possibilities for construction projects where, in addition to high functionality, material selection also plays an important role.*



Innovative material concept:

- **Core material made from bio-based lignin and recycled polystyrene**
- **Alternative raw materials instead of exclusively virgin fossil raw materials**
- **Manufactured using electricity from renewable energy sources**
- **Environmental performance transparently documented in an Environmental Product Declaration (EPD)**

Lignin: Nature's strength

LIGNIN
BIOPOLYMER

The core of the construction board contains the biopolymer lignin. Lignin has long been underutilised as a sustainable raw material.

It is abundantly produced as a byproduct of the paper industry during the breakdown of cellulose.

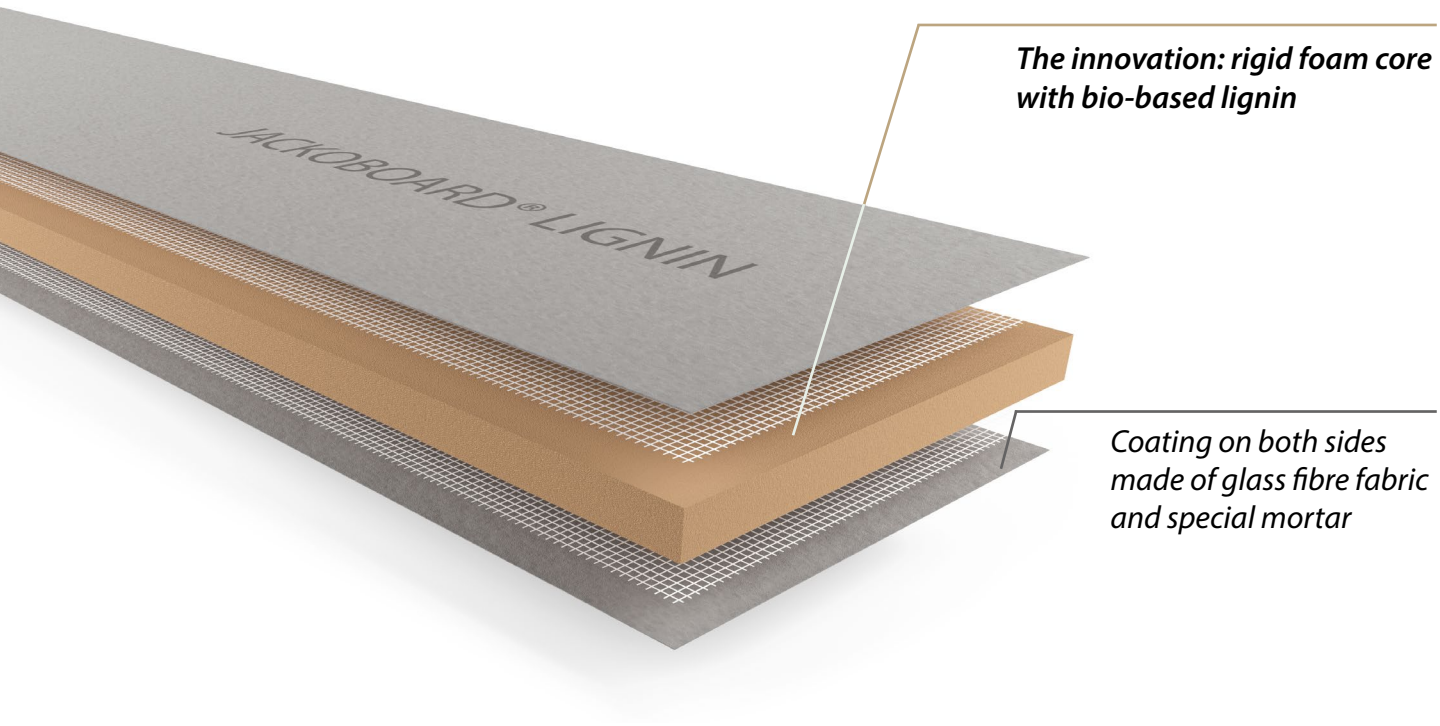
Lignin is a complex organic polymer found primarily in the cell walls of plants.

It plays a crucial role in the formation of supporting tissue, which gives plants their rigidity and strength.

In addition to bio-based lignin, the construction board core contains recycled polystyrene.

The product's environmental performance, including its climate impacts, is documented in an Environmental Product Declaration (EPD).

EPD



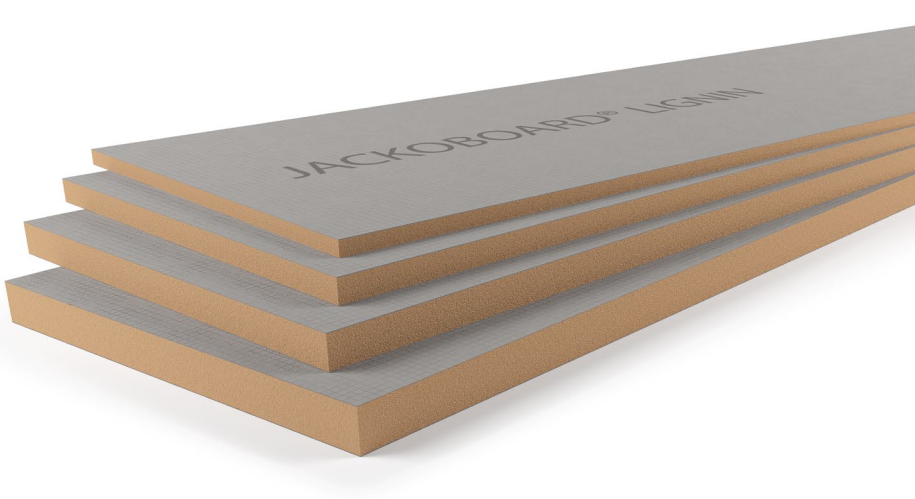
Oustanding Performance

JACKOBOARD® LIGNIN combines an innovative material concept with the proven properties of JACKOBOARD® construction boards. The core material made from bio-based lignin and recycled polystyrene offers the same high performance for a wide range of interior applications as the established JACKOBOARD® products – durable, waterproof and ideal for installing ceramic coverings.



- **Can be directly tiled, filled and plastered**
- **Easy to process**
- **Waterproof**
- **High compressive strength**
- **Lightweight approx. 3-6 kg/m²**
- **Excellent thermal insulation properties**

JACKOBOARD® LIGNIN Plano



The all-round construction board

- Waterproof construction board for interior fittings (wall, pipe and bath tub panelling, sink units, shelves etc.)
- Coating of mortar and glass fibre fabric on both sides
- Can be directly tiled, filled and plastered

Art. no.	EAN code	Thickness mm	Panel dimensions mm	Pack content boards	Pack content m²
4529169	40 25345 17795 4	4	1300 x 600	140	109.20
4529170	40 25345 17796 1	6	1300 x 600	140	109.20
4529171	40 25345 17797 8	10	1300 x 600	100	78.00
4529172	40 25345 17798 5	12.5	1300 x 600	100	78.00
4528486	40 25345 17526 4	20	2600 x 600	50	78.00
4528487	40 25345 17527 1	30	2600 x 600	36	56.16
4528488	40 25345 17528 8	40	2600 x 600	36	56.16
4528489	40 25345 17529 5	50	2600 x 600	26	40.56

Note:
Our JACKOBOARD® LIGNIN range is constantly being expanded.
Do you have special wishes or requirements? Talk to us - together we will find the right solution.





Technical data

JACKOBOARD® LIGNIN Plano

Properties		Standard	Unit	Lignin-Polymer foam core
Bulk density		EN 1602	kg/m³	> 30
Thermal conductivity λ		EN 12667	W/(m · K)	0.034
Compressive strength or compressive stress at 10 % compression		EN 826	N/mm²	> 0.30 [1]
Dimensional change under defined conditions	70 °C Temperature 90 % relative humidity	EN 1604	%	≤ 5
	70 °C Temperature 40 kPa pressure	EN 1605	%	≤ 5
Linear thermal expansion coefficient		–	mm/(m · K)	0.07
Fire behaviour		EN 11925-2	-	E
Working temperature			°C	-50/+75

[1] *0,2 N/mm² for Plano in 20 mm*

Properties		Standard	Unit	JACKOBOARD® LIGNIN Plano
Tensile strength		EN 1607	kPa	≥ 200
Tolerances	Width	EN 822	mm	± 2
	Length	EN 822	mm	± 2
	Rectangularity	EN 824	mm/m	≤ 5
	Flatness	EN 825	mm	≤ 2
Edge profile				butt edge

Disclaimer
The information in this publication is based on our current knowledge and experience. It does not constitute a warranty in the legal sense. The specific conditions of the application must always be taken into account, particularly with regard to building physics, building technology and building law.

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JACKON Insulation GmbH
Ritzlebener Straße 1
D-39619 Arendsee (Mechau)

T +49 (0) 5204 9955 - 444

E info@jackodur.com
W www.jackon-insulation.com

Get **contact**

Social Media

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