akustik+ slimline green 16/4

With**akustik+ slimline green** we have expanded our range akustik + slimline by an innovative and sustainable product.

For all objects, in addition to good room acoustics, special emphasis is placed on sustainably produced and low-emission building materials, we offer a tailor-made solution here.

The natural solid wood surface also harmonizes perfectly with visible elements of wooden support structures or a furniture of local woods. The planks are simple and cost-effective to install on walls and ceilings. Due to their properties, they are especially suitable for the use in schools and kindergartens, as well as for wooden frame construction.

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Ecology and Sustainability

- Exclusively raw materials from ecologically certified production
- Lowest emissions, strict limits of emissions
- Sustainable production in our own CoC-certified plant in Germany (FSC and PEFC standard)

FSC www.fsc.org FSC® C119792 Das Zeichen für verantwortungsvolle Waldwirtschaft

PEFC Förderung nachhaltiger Waldwirtschaft www.pefc.de

Built up

Construction:	Eco-Multilayer-Plywood, formaldehyde free
Face side:	wood species: Whitewood Quality: knotless, no sequences Surface: natural, sanded Slotting: 16/4 mm Groove width: 4mm Distance between groove ctr/ctr: 16mm Material between grooves: 12mm
Middle layer:	wood fiber absorber 25mm, slightly hydro-phobic, 73,6% share of the middle layer
Rear side:	highly effective acoustic perforation, Open surface: 39,3% Non perforated border on rearside
Edges	Lenght edges with tongue and groove connection Transverse edge: industrial saw cut
Dimensions	3030/192/31 (±0,5) mm

Slimline, slotting 16/4, surface: White Fir

Other available versions

Wood species:	White Fir Europ. Oak American Walnut Can. Maple Others on request
Slottings:	16/3 [2 32/4 [3 oder 2] stripes (random)
Perforations:	4/4/1,5 6,4/6,4/3 8/8/3
Dimensions:	3030/1250/31 (±0,5) mm 3030/600/31 (±0,5) mm

Slimline, slotting 16/4, surface: White Fir

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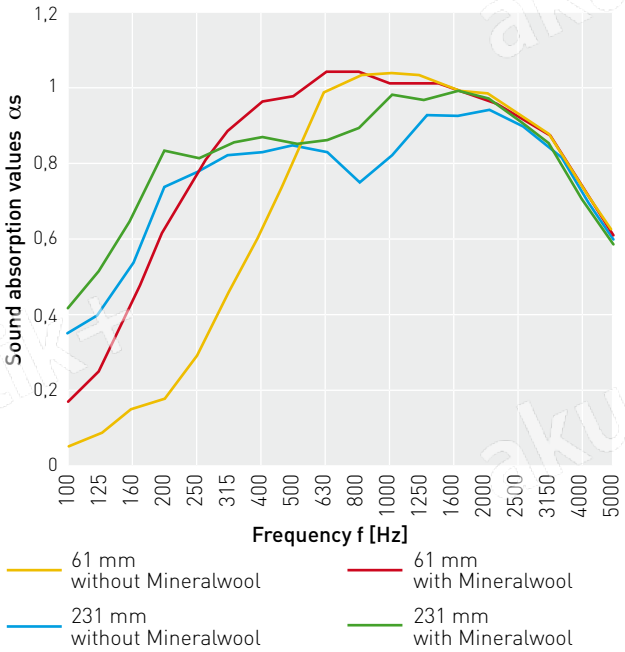
Sound absorption values				
Overall Structure	61 mm	61 mm	231 mm	231 mm
Cavity	30 mm	without	200 mm	150 mm
Mineral Wool	without	30 mm	without	50 mm
Panel Thickness	31 mm	31 mm	31 mm	31 mm
Frequency [Hz]	**αs**	**αs**	**αs**	**αs**
100	0,05	0,17	0,35	0,42
125	0,08	0,25	0,40	0,52
160	0,15	0,43	0,54	0,66
200	0,18	0,62	0,74	0,83
250	0,28	0,77	0,77	0,81
315	0,46	0,89	0,82	0,85
400	0,63	0,96	0,83	0,87
500	0,79	0,98	0,84	0,85
630	0,99	1,04	0,83	0,86
800	1,03	1,04	0,75	0,89
1.000	1,04	1,01	0,82	0,98
1.250	1,03	1,01	0,92	0,97
1.600	0,99	1,00	0,92	0,99
2.000	0,97	0,96	0,94	0,97
2.500	0,93	0,93	0,90	0,93
3.150	0,85	0,87	0,83	0,84
4.000	0,72	0,70	0,69	0,70
5.000	0,56	0,56	0,56	0,55
α w	**0,60**	**0,90**	**0,65**	**0,85**
NRC	**0,80**	**0,95**	**0,75**	**0,90**
SAA	**0,78**	**0,93**	**0,74**	**0,90**
Absorption Class	**C**	**A**	**B**	**B**



The sound test and measurement was done and evaluated in September 2015 according DIN EN ISO 354 „Measurement of sound absorption in a reverberation room" 2003 edition.

The panels with slot pattern 16/4 has been tested on a distance of 30mm and 200mm to the sound hard ground. The test was done on each distance with and without sound absorbing wool.

Highest effective sound absorbing for wall and ceiling covering (class A, NRC 0,95!!!) on a total built up of 61mm only !

Installation

small thickness of only 31mm with a minimal weight and a simple tongue and groove connection

the planks can be mounted without any visible screw directly on almost all existing sub constructions by using a special developed and designed installation clip, minimum built up height 36mm

therefor you have a significant simplified installation compared to conventional wall or ceiling coverings

endless installation, almost non waste material, slotted version gives a homogeneous surface without visible longitudinal joints

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