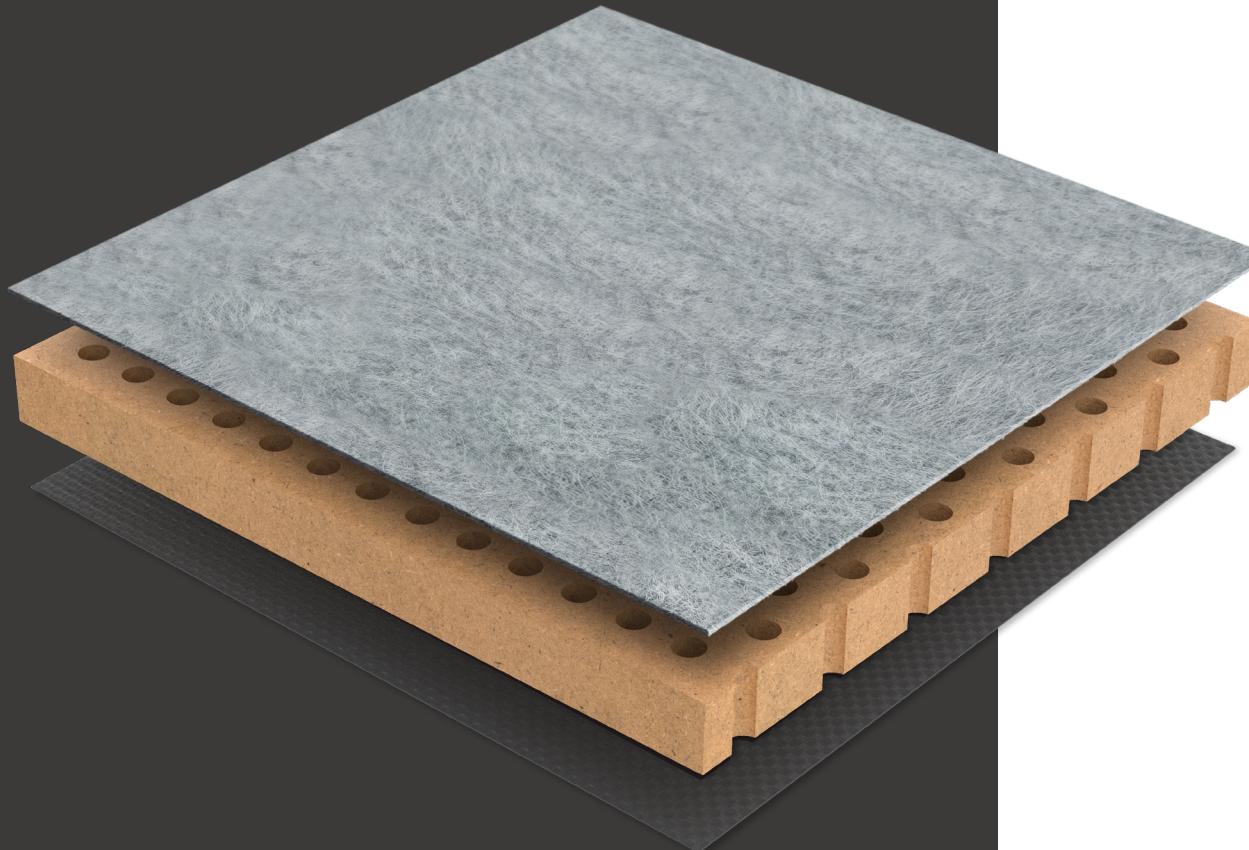


INOIS® Vellus

Acoustic board

Acoustic element with perforated support and wool felt covering.



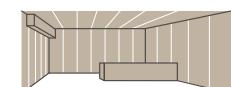
sound-absorbing



flame-resistant core board possible



formaldehyd-free



INOIS® Vellus

Acoustic board

Recommended configuration		Individualisation
CORE BOARD		
Core board:	MDF NAF	MDF MR/ FR
Core board thickness:	19 mm	see core board table
FORMATS		
Formats:	2420 x 1200 mm including unperforated edge of the core board panel of at least 30 mm	see core board table, customised format and fixed dimensions possible (recommended)
GLUING		
Gluing:	D3 according to EN 204	D4 according to EN 204
VISIBLE SIDE		
Felt:	Light gray wool felt	other colors available on request, B1 possible
Thickness:	1,5 mm	
REVERSE SIDE		
Fleece:	Acoustic fleece black	
Thickness:	0,3 mm	
Grid hole:	8/ 8/ 5 mm diagonally offset	
Drilling diameter:	5 mm	

CERTIFICATES

FSC® / PEFC / E1 / E0.5: Certificate depending on the product version

ADDITIONAL INFORMATION

Sound reduction in accordance with EN 11654 Class A.

Flame retardant possible: in accordance with EN 13501-1 before veneering, no testing in the combination.
Core boards lose their approval due to finishing.

INOIS® Vellus

Acoustic board

MEASUREMENT RESULTS OF THE SOUND ABSORPTION COEFFICIENT

Description and measurement of sound absorption in reverberation rooms. Test method according to STN EN ISO 354: 2004.

Test specimen: INOIS® Vellus 19mm, support hole 8/8/5mm diagonally offset, covered on the back with acoustic fleece on

69mm frame and mineral insulation wool with a thickness of 50mm.

Test specimen: INOIS® Vellus 19mm, support hole 8/8/5mm diagonally offset, covered on the back with acoustic fleece on

199mm frame and mineral insulation wool with a thickness of 80mm.

INOIS® Vellus			INOIS® Vellus	
Construction height 69 MM			Construction height MM	
Frequency . f	Thirds . α_s	Octaves . α_p	Thirds . α_s	Octaves . α_p
50	0,04	0,10	0,23	0,35
63	0,06		0,41	
80	0,15		0,37	
100	0,24		0,38	
125	0,38		0,53	
160	0,52		0,64	
200	0,68		0,85	
250	0,84		0,85	
315	0,85		0,92	
400	0,93		0,94	
500	0,91	0,95	0,86	0,90
630	0,94		0,87	
800	0,95		0,89	
1000	0,93		0,92	
1250	0,92		0,90	
1600	0,92	0,95	0,92	0,90
2000	0,96		0,93	
2500	0,95		0,89	
3150	0,92		0,88	
4000	0,86	0,85	0,84	0,85
5000	0,80		0,77	
α_w *		0,95	0,90	
NRC **		0,90	0,90	
SAA ***		0,90	0,90	



* The weighted sound absorption coefficient according to EN ISO 11654:2001.

** Mean value of the sound absorption of the 250, 500, 1000, 2000 third octave values (rounded to 0.05).

*** Arithmetic mean value of the sound absorption across all one-third octave values from 200 - 2500 Hertz (rounded to 0.01).