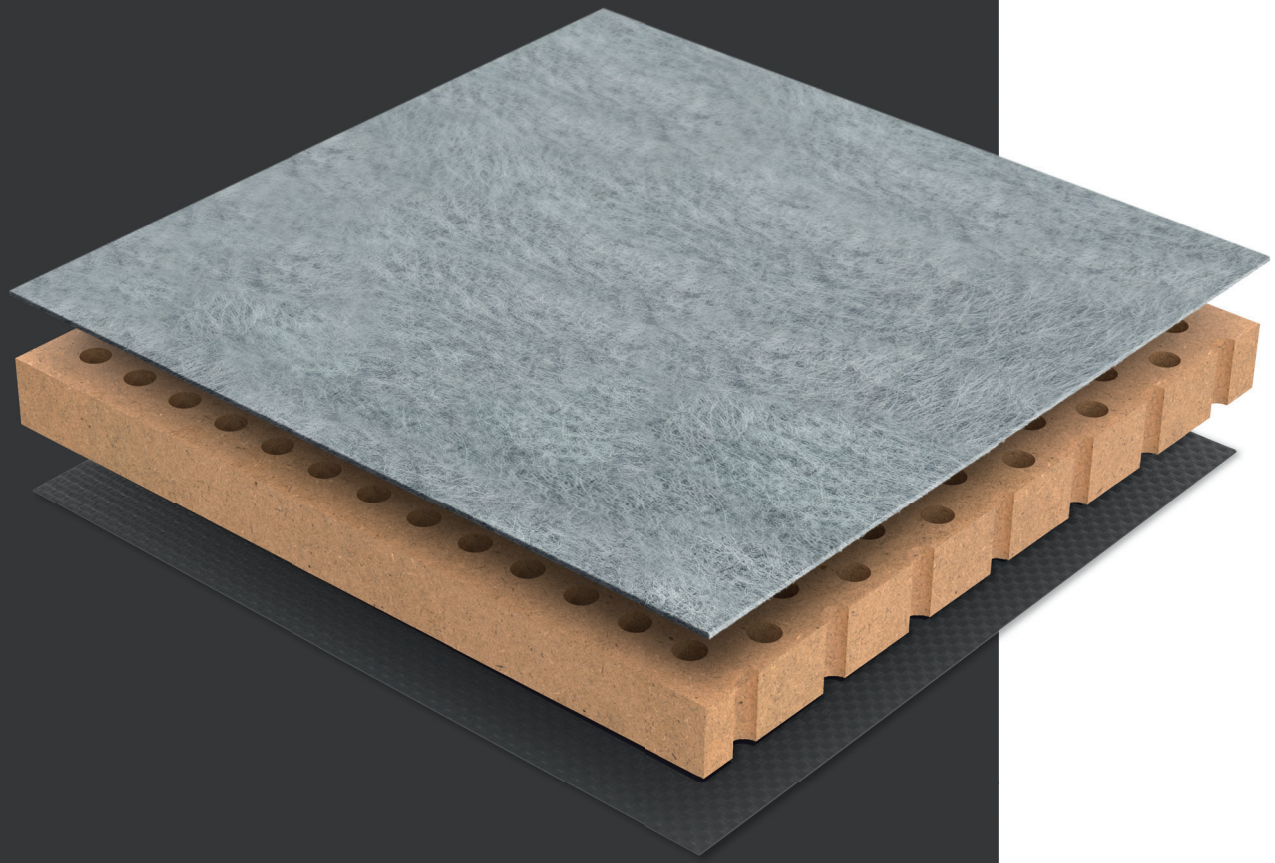
INOIS® Vellus
Acoustic board

Acoustic element with perforated core board and wool felt covering.



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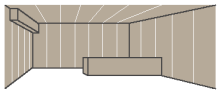
sound-absorbing

flame-resistant core board possible

formaldehyd-free



Especially suitable for
ceilings; walls; shop fitting and exhibition stands

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	Recommended configuration	Individualisation
CORE BOARD		
Core board:	MDF NAF	MDF MR/ FR
Core board thickness:	19 mm	see core board table
FORMATS		
Formats:	2780 x 600 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.

CONTACT OUR EXPERT TEAM

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MEASURMENT 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 Construction height 69 MM		INOIS® Vellus Construction height MM	
Frequency . f [Hz]	**Thirds . α_s** [-]	**Oktaves . α_p** [-]	**Thirds . α_s** [-]	**Octaves . α_p** [-]
50	0,04		0,23	
63	0,06	**0,10**	0,41	**0,35**
80	0,15		0,37	
100	0,24		0,38	
125	0,38	**0,40**	0,53	**0,50**
160	0,52		0,64	
200	0,68		0,85	
250	0,84	**0,80**	0,85	**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	**0,95**	0,92	**0,90**
1250	0,92		0,90	
1600	0,92		0,92	
2000	0,96	**0,95**	0,93	**0,90**
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).

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