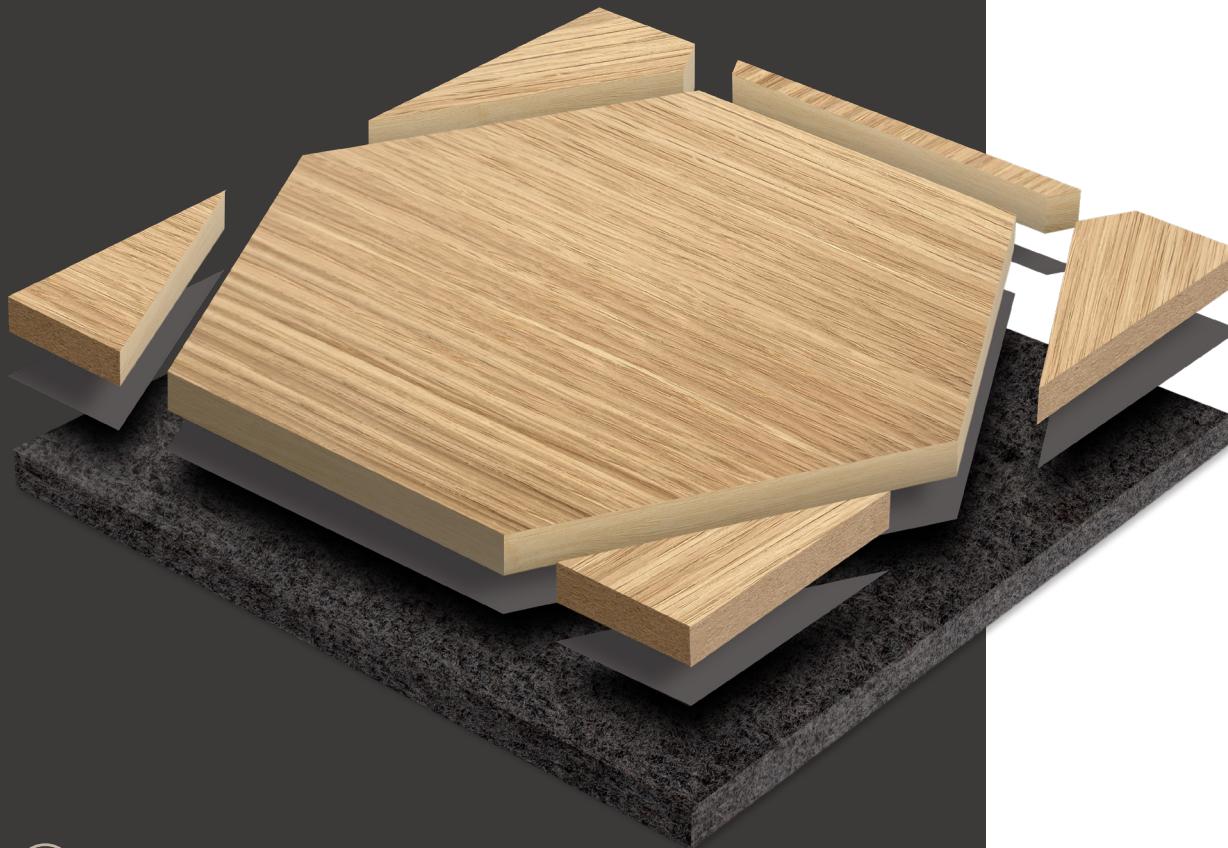


INOIS® Apis

Acoustic board

The acoustically effective combination consists of a fleece and high-quality MDF patterns veneered with precious wood.



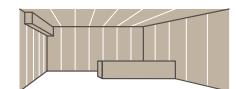
sound-absorbing



digital printing possible



flame-resistant core board possible



INOIS® Apis

Acoustic board

Recommended configuration			Individualisation
CORE BOARD			
Core board:	MDF E0.5 (depending on the combination) with backing paper		MDF MR/ FR/ NAF
Core board thickness:	Total thickness approx. 19-23 mm (incl. veneer)		
FORMATS			
Formats:	674 x 584 mm		
VENEER GLUING			
Veneer gluing:	D3 (NAF) according to EN 204		D4 according to EN 204
VISIBLE SIDE			
Veneer:	European oak		140 wood species see www.europac.com/customisation
Quality:	A-First Quality		A-Pattern matching 5*, A, B, C: see www.europac.com/customisation
Grading:	Half-crown cut		2 further grading types: see www.europac.com/customisation
Bonding method:	Random matched SMOOTH		6 further bonding methods see www.europac.com/customisation
Veneer thickness:	approx. 0,6 mm		hardwoods approx. 0,6 mm, softwoods approx. 0,9 mm
Surface finishing:	Natural hard wax		5 further surface finishes: see www.europac.com/customisation Pa
Pattern:	12 mm MDF nature, distance 15 mm		12 mm MDF black
REVERSE SIDE			
Reverse side:	Fleece 10 mm black (flame retardant B-sl, d0 possible)		fleece grey
CERTIFICATES			
FSC® / PEFC / EI / E0.5:	Certificate depending on the product version		
ADDITIONAL INFORMATION			
Sound reduction in accordance with EN 11654 Class D.			
According to EN 13501-1 before veneering, no combination testing.			
Core boards lose their certification through finishing.			
Individual design and finishing possible through INDEWO digital printing, linoleum, metal laminates, textiles, etc.			
Note: Please note that wood is a natural product. Irregularities in color and structure are a natural characteristic and are generally desirable. Please understand that samples and illustrations regarding color and structure can only be an indication.			

INOIS® Apis

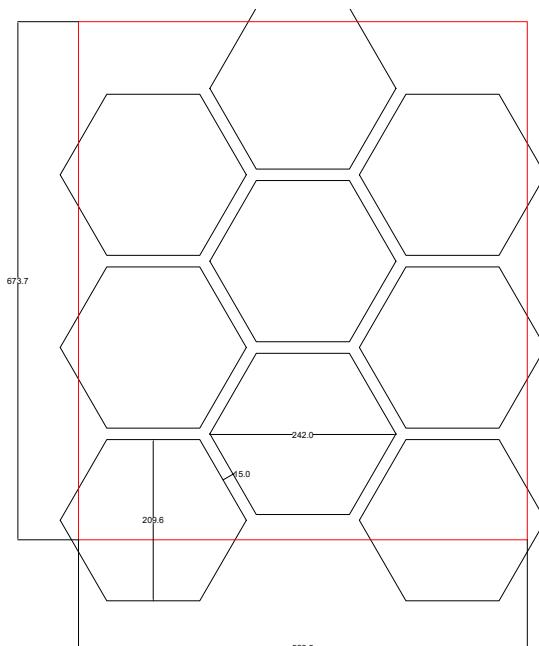
Acoustic board

MEASUREMENT RESULTS OF THE SOUND ABSORPTION COEFFICIENT

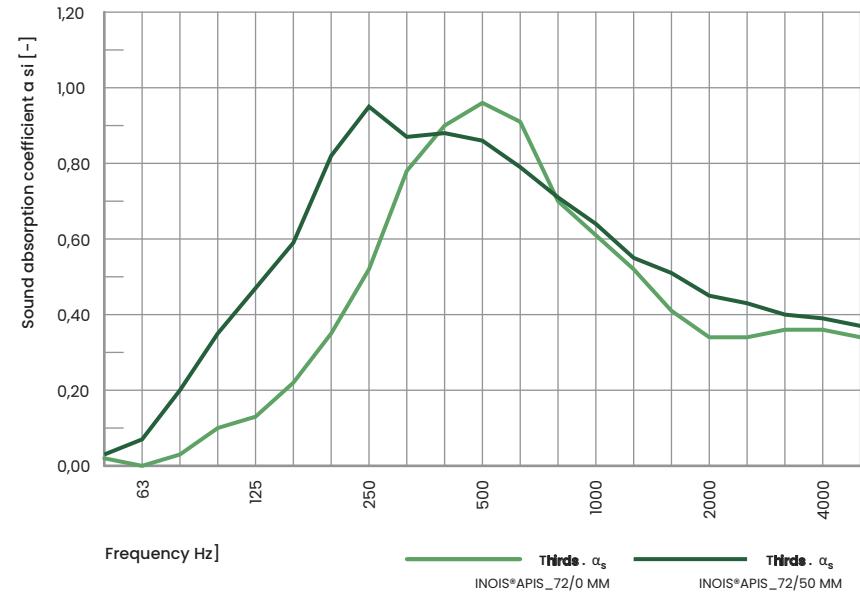
Description and measurement of sound absorption in reverberation rooms. Test method according to STN EN ISO 354: 2004.

Test specimen: INOIS® Apis on 10 mm Fleece on **72mm frame without mineral insulation wool**.

Test specimen: INOIS® Apis on 10 mm Fleece on **72mm frame and 50 mm mineral insulation wool**.



Frequency . f [Hz]	INOIS®APIS		INOIS®APIS	
	Construction height 72/0 MM	Construction height 72/50 MM	Construction height 72/0 MM	Construction height 72/50 MM
	Thirds . α_s [-]	Octaves . α_p [-]	Thirds . α_s [-]	Octaves . α_p [-]
50	0,02			
63	0,00	0,00		
80	0,03			0,10
100	0,10		0,35	
125	0,13	0,15	0,47	
160	0,22		0,59	
200	0,35		0,82	
250	0,52	0,55	0,95	
315	0,78		0,87	
400	0,90		0,88	
500	0,96	0,90	0,86	
630	0,91		0,79	
800	0,70		0,71	
1000	0,61	0,60	0,64	
1250	0,52		0,55	
1600	0,41		0,51	
2000	0,34	0,35	0,45	
2500	0,34		0,43	
3150	0,36		0,40	
4000	0,36	0,35	0,39	
5000	0,34		0,37	0,40
α_w *		0,45	0,50	
NRC **		0,60	0,75	
SAA ***		0,61	0,71	



* 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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