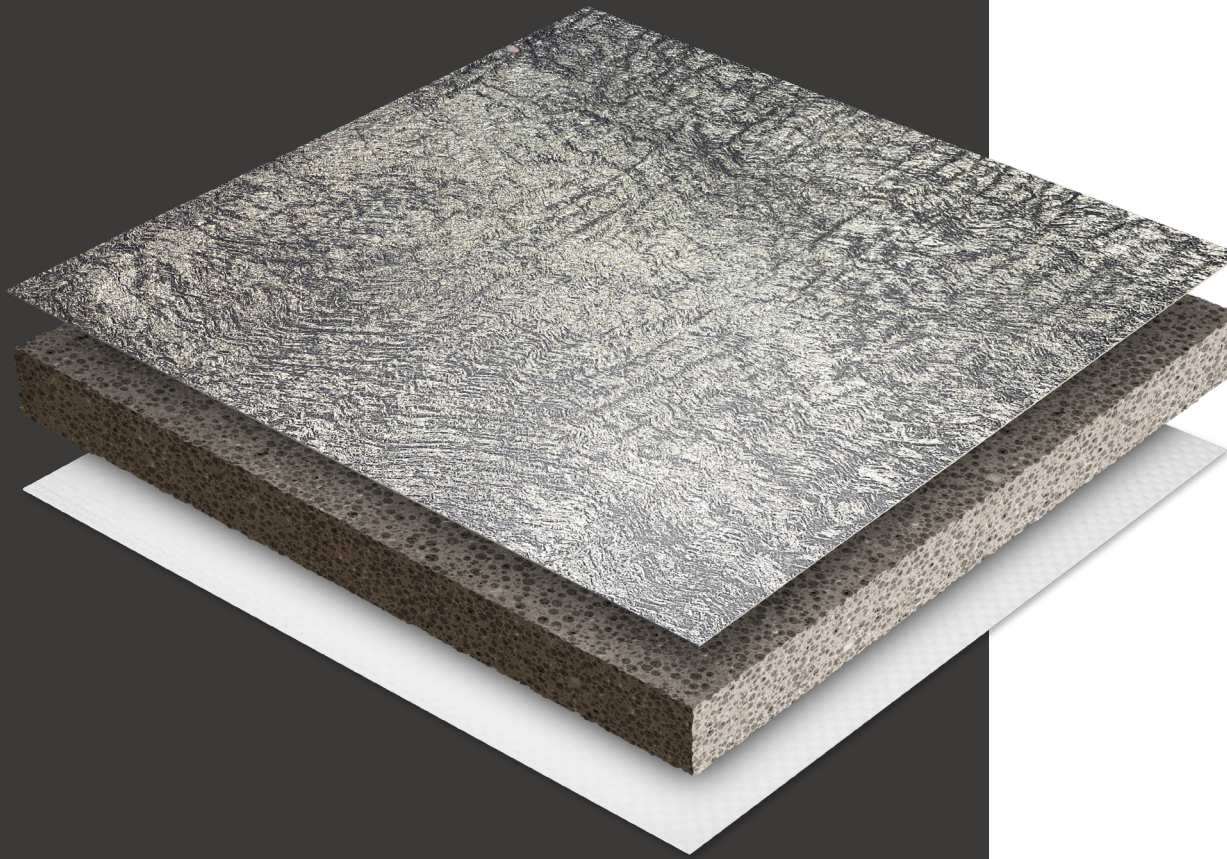


INOIS® Cortex

Acoustic board

Acoustic element with core board made of expanded glass granulate and covered with fig bark.

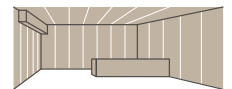


sound-absorbing 

incombustible 

formaldehyd-free 

low weight 



Especially suitable for
ceilings; walls

INOIS® Cortex

Acoustic board

CORE BOARD		Recommended configuration	Individualisation
Core board:	Core board made of expanded glass granulate A2-S1, d0 according to EN 13501-1		MDF MR/ FR/ NAF
Core board thickness:	25 mm		see core board table
FORMATS			
Formats:	2400 x 1200 mm		see core board table, customised format and fixed dimensions possible (recommended)
VENEER GLUING			
Veneer gluing:	D3 according to EN 204		D4 according to EN 204
VISIBLE SIDE			
Coating:	Fig bark e.g. black silver (black aluminium)		various colours and designs possible
Thickness:	approx 1 mm		0,7-1,4 mm, depending on variant and processing
REVERSE SIDE			
Fleece:	acoustic fleece white		
Thickness:	0,3 mm		
CERTIFICATES		Core board and glue formaldehyde-free according to EN 13964:2014	
ADDITIONAL INFORMATION		Sound reduction in accordance with EN 11654 Class C. Non-flammable according to EN 13501-1 before veneering, no testing in the combination. Core boards lose their approval due to finishing. Low moisture and thermal expansion.	

INOIS® Cortex 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.

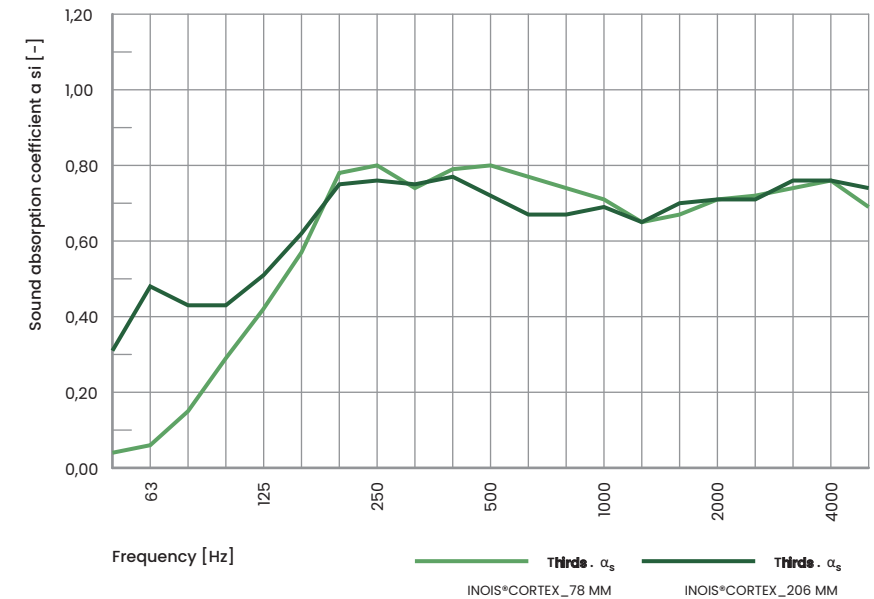
Test specimen: INOIS® Cortex core board 25 mm, visible side covered with fig bark and back with acoustic fleece.

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

Test specimen: INOIS® Cortex core board 25 mm, visible side covered with fig bark and back with acoustic fleece.

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

INOIS®CORTEX			INOIS®CORTEX	
Construction height 78 MM			Construction height 206 MM	
Frequency . f [Hz]	Thirds . α_s [-]	Octaves . α_p [-]	Thirds . α_s [-]	Octaves . α_p [-]
50	0,04	0,10	0,31	0,40
63	0,06		0,48	
80	0,15		0,43	
100	0,29	0,45	0,43	0,50
125	0,42		0,51	
160	0,57		0,62	
200	0,78	0,75	0,75	0,75
250	0,80		0,76	
315	0,74		0,75	
400	0,79	0,80	0,77	0,70
500	0,80		0,72	
630	0,77		0,67	
800	0,74	0,70	0,67	0,65
1000	0,71		0,69	
1250	0,65		0,65	
1600	0,67	0,70	0,70	0,70
2000	0,71		0,71	
2500	0,72		0,71	
3150	0,74	0,75	0,76	0,75
4000	0,76		0,76	
5000	0,69		0,74	
α_w *	0,75	0,70		
NRC **	0,75	0,70		
SAA ***	0,74	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).