

INOIS® S-WAVE

Acoustic board

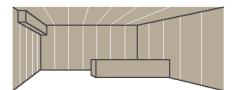
INOIS® S-Wave is inspired by the motion of waves. Whether wave shape, stepped shape, irregular arrangement or completely customised to your project.



sound-absorbing



digital printing possible



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

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	Recommended configuration	Individualisation
CORE BOARD		
Core board:	MDF E05	
Core board thickness:	19 mm - 37 mm	see core board table
FORMATS		
Formats:	2420 x 240 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.europlac.com/customisation
Quality:	A-First Quality	A-Pattern matching 5*, A, B, C: see www.europlac.com/customisation
Grading:	Half-crown cut	2 further grading types: see www.europlac.com/customisation
Bonding method:	Random matched SMOOTH	6 further bonding methods see www.europlac.com/customisation
Veneer thickness:	approx. 0,6 mm	hardwoods approx. 0,6 mm, softwoods approx. 0,9 mm
Surface processing:	Rough-ground (grain 120)	unpolished
Design:	Visible side slotted 14/2 mm	Visible side slotted 30/2 mm
REVERSE SIDE		
Reverse side:	Acoustic fleece black	Acoustic fleece black
Design:	Perforation 16/16/8 mm	Perforation 32/32/8 mm

CERTIFICATES

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

ADDITIONAL INFORMATION

Sound-absorbing: Tested in accordance with EN ISO 354:2003
 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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APPLICATION POSSIBILITIES OF THE INOIS® S-WAVE

The recurring shape of the individual elements allows unique and individual solutions to be realized according to customer requirements and installation situation.



Waveform



Stepped form



irregular arrangement

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.

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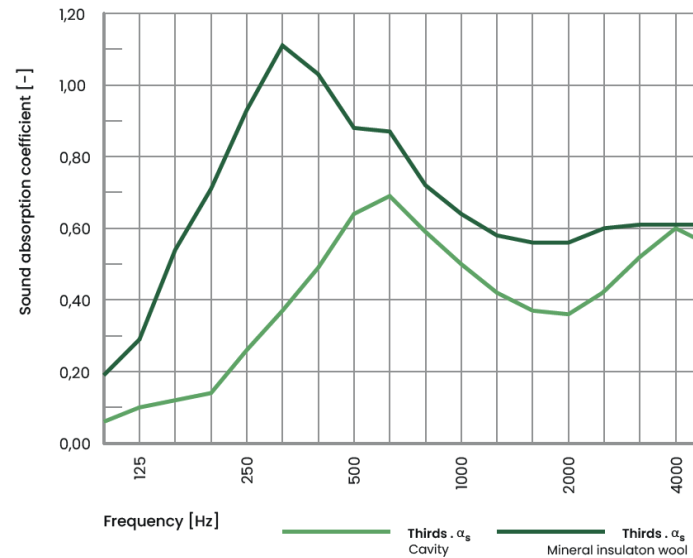
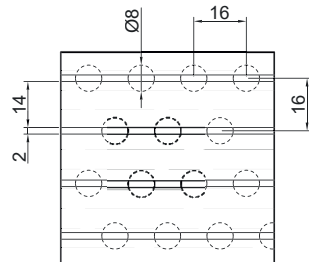
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MEASUREMENT RESULTS OF THE SOUND ABSORPTION COEFFICIENT

Description and measurement of sound absorption in reverberation rooms. Test method according to STN EN ISO 354: 2003.

Test specimen: INOIS® S-WAVE 19-37 mm, stud hole 16/16/8 mm, offset by approx. 90° and slotted 14/2 mm, coated on the back with acoustic fleece, with a 45 mm frame. **Installation height 64-82 mm.**

Test specimen: INOIS® S-WAVE 19-37 mm, stud hole 16/16/8 mm, offset by approx. 90° and slotted 14/2 mm, **coated on the back with acoustic fleece, with a 45 mm frame and mineral insulation wool with a thickness of 45 mm. Installation height 64-82 mm.**



Frequency . f [Hz]	Thirds . α_s [-]	Octaves . α_p [-]	Thirds . α_s [-]	Octaves . α_p [-]
100	0,06	0,09	0,19	0,34
125	0,10		0,29	
160	0,12		0,54	
200	0,14	0,26	0,71	0,92
250	0,26		0,93	
315	0,37		1,11	
400	0,49	0,61	1,03	0,93
500	0,64		0,88	
630	0,69		0,87	
800	0,59	0,50	0,72	0,65
1000	0,50		0,64	
1250	0,42		0,58	
1600	0,37	0,38	0,56	0,57
2000	0,36		0,56	
2500	0,42		0,60	
3150	0,52	0,56	0,61	0,61
4000	0,60		0,61	
5000	0,55		0,61	

α_w *	0,45	0,65 (LM)
NRC **	0,44	0,75
SAA ***	0,44	0,77

* 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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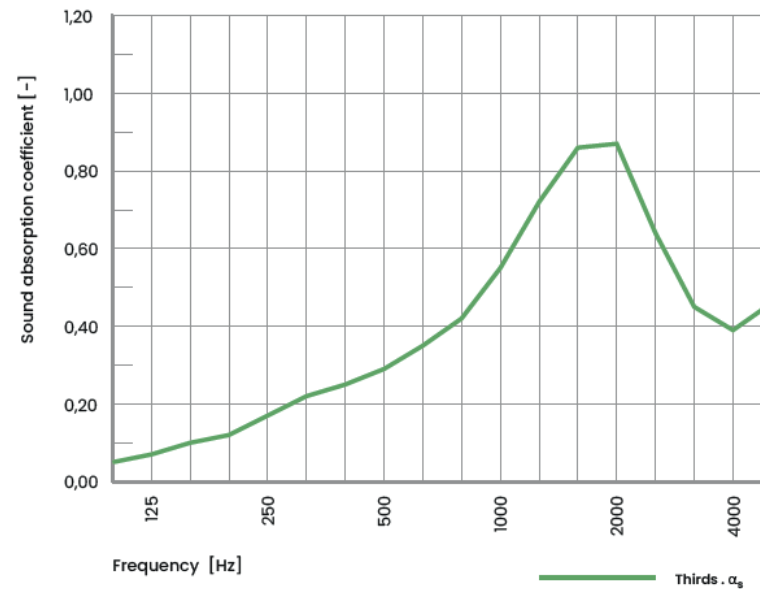
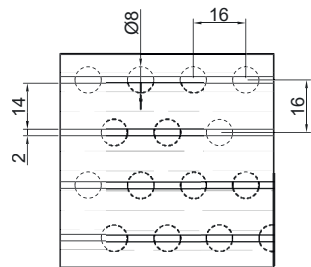
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MEASUREMENT RESULTS OF THE SOUND ABSORPTION COEFFICIENT

Description and measurement of sound absorption in reverberation rooms. Test method according to STN EN ISO 354: 2003.

Test specimen: INOIS® S-WAVE 19-37 mm, stud hole 16/16/8 mm, offset by approximately 90°, and 14/2 mm slotted, with acoustic fleece on the back without a frame or insulation material.

Installation height: 19-37 mm.



Frequency . f [Hz]	Thirds . α_s [-]	Octaves . α_p [-]
100	0,05	0,07
125	0,07	
160	0,10	
200	0,12	0,17
250	0,17	
315	0,22	
400	0,25	0,30
500	0,29	
630	0,35	
800	0,42	0,56
1000	0,55	
1250	0,72	
1600	0,86	0,79
2000	0,87	
2500	0,64	
3150	0,45	0,43
4000	0,39	
5000	0,46	
α_w *		0,35
NRC **		0,47
SAA ***		0,46

* 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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