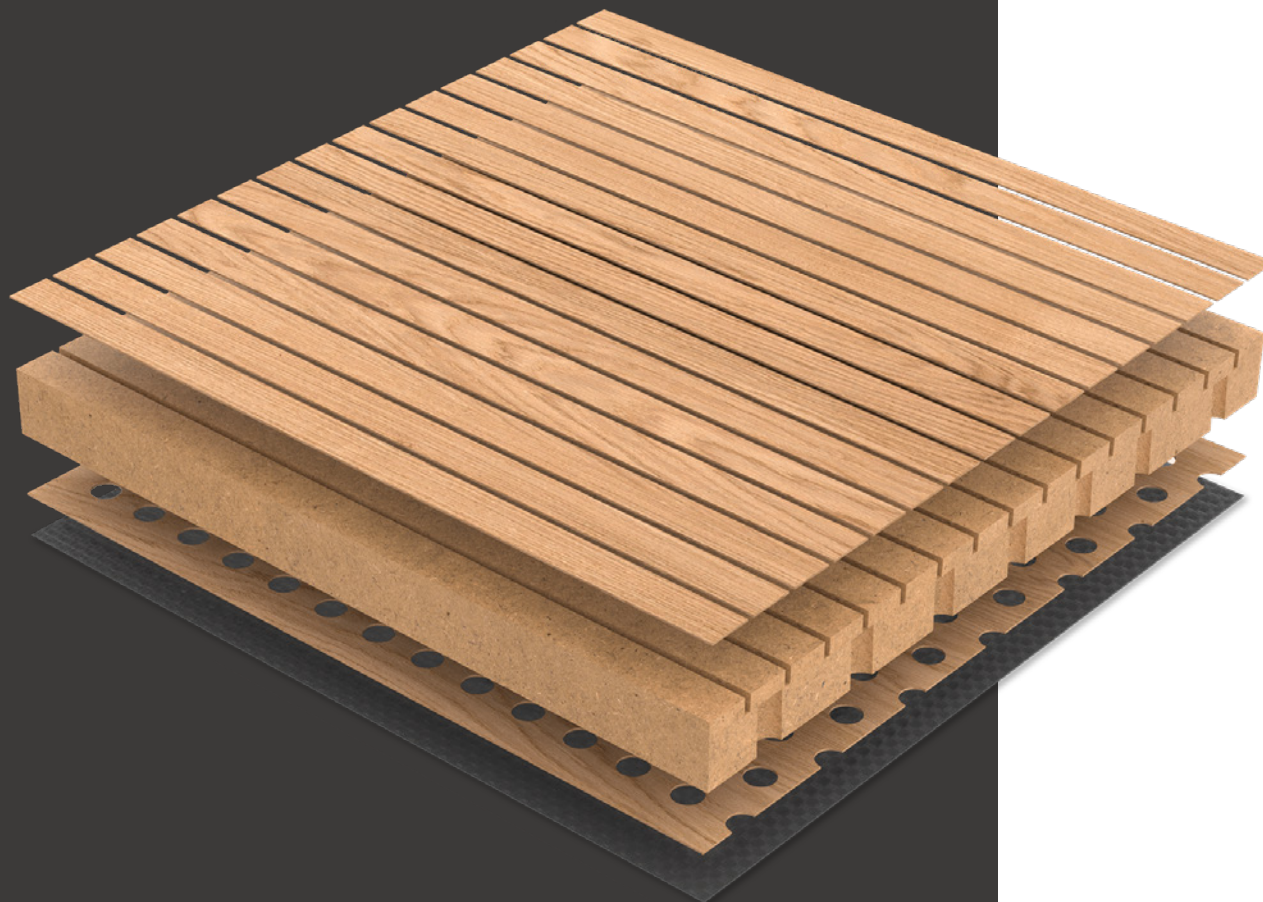




## INOIS® S Acoustic board


Acoustic element with slotted support and slotted noblewood.

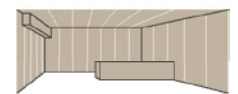


sound-absorbing 

digital printing possible 

flame-resistant core board possible 

formaldehyd-free 



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

## INOIS® S Acoustic board

	Recommended configuration	Individualisation
<b>CORE BOARD</b>		
Core board:	MDF NAF	MDF MR/ FR/ NAF
Core board thickness:	19 mm	see core board table
<b>FORMATS</b>		
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)
<b>VENEER GLUING</b>		
Veneer gluing:	D3 (NAF) according to EN 204	D4 according to EN 204
<b>VISIBLE SIDE</b>		
Veneer:	European oak	140 wood species see <a href="http://www.eurolac.com/customisation">www.eurolac.com/customisation</a>
Quality:	A-First Quality	A-Pattern matching 5*, A, B, C: see <a href="http://www.eurolac.com/customisation">www.eurolac.com/customisation</a>
Grading:	Half-crown cut	2 further grading types: see <a href="http://www.eurolac.com/customisation">www.eurolac.com/customisation</a>
Bonding method:	Random matched SMOOTH	6 further bonding methods see <a href="http://www.eurolac.com/customisation">www.eurolac.com/customisation</a>
Veneer thickness:	approx. 0,6 mm	hardwoods approx. 0,6 mm, softwoods approx. 0,9 mm
Surface processing:	Rough-ground (grain 120)	further surface processings: see <a href="http://www.eurolac.com/customisation">www.eurolac.com/customisation</a>
Design:	Visible side slotted 14/ 2 mm	Visible side slotted 13/ 3 mm
<b>REVERSE SIDE</b>		
Reverse side:	blind + acoustic fleece black	Hotmelt fleece black

### CERTIFICATES

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

### ADDITIONAL INFORMATION

Sound reduction in accordance with EN 11654 Class C.

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

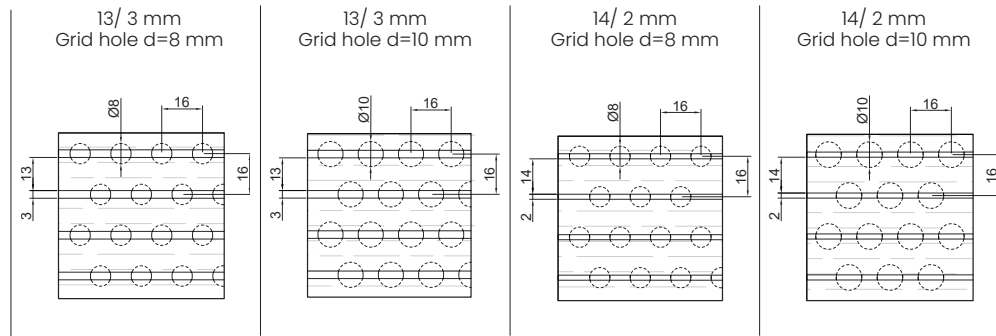
Slats with tongue and groove combinations possible.

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.

### CONTACT OUR EXPERT TEAM

## INOIS® S Acoustic board

### PERFORATION OPTIONS



Other perforations and variants  
available on request.

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.

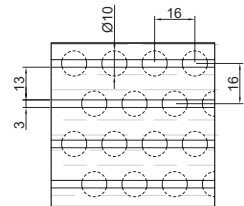
## INOIS® S Acoustic board

### MEASUREMENT RESULTS OF THE SOUND ABSORPTION COEFFICIENT

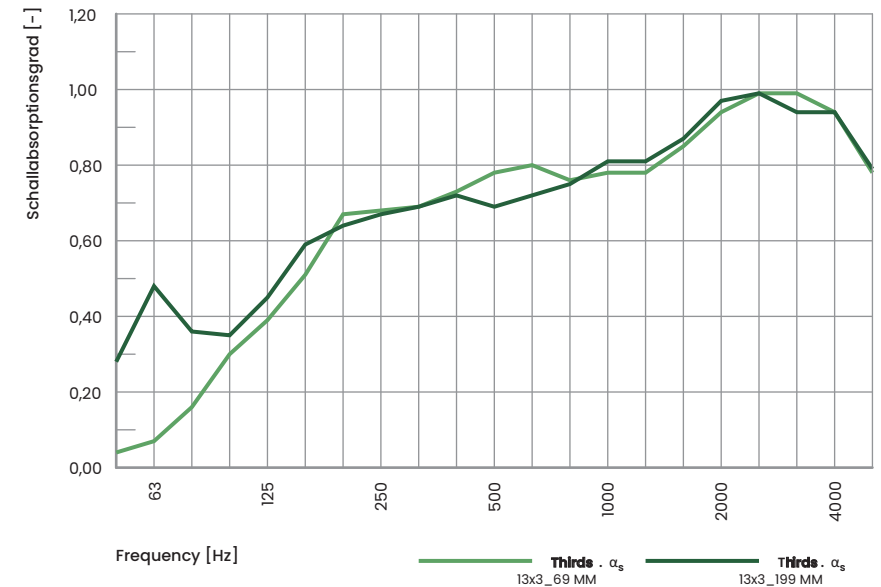
Description and measurement of sound absorption in reverberation rooms. Test method according to STN EN ISO 354: 2004.

Test specimen: INOIS® S 19mm, visible side slotted 13/ 3mm, grid hole core board 16/ 16/ 10 mm, diagonally offset, backside covered with acoustic fleece on **69mm frame and mineral insulation wool with a thickness of 50mm.**

Test specimen: INOIS® S 19mm, visible side slotted 13/ 3mm, grid hole core board 16/ 16/ 10 mm, diagonally offset, backside covered with acoustic fleece on **199mm frame and mineral insulation wool with a thickness of 80mm.**



Frequency . f [Hz]	13x3 Construction height 69 MM		13x3 Construction height 199 MM	
	Thirds . $\alpha_s$ [-]	Octaves . $\alpha_p$ [-]	Thirds . $\alpha_s$ [-]	Octaves . $\alpha_p$ [-]
50	0,04	0,10	0,28	0,35
63	0,07		0,48	
80	0,16		0,36	
100	0,30	0,40	0,35	0,45
125	0,39		0,45	
160	0,51		0,59	
200	0,67	0,70	0,64	0,65
250	0,68		0,67	
315	0,69		0,69	
400	0,73	0,75	0,72	0,70
500	0,78		0,69	
630	0,80		0,72	
800	0,76	0,75	0,75	0,80
1000	0,78		0,81	
1250	0,78		0,81	
1600	0,85	0,95	0,87	0,95
2000	0,94		0,97	
2500	0,99		0,99	
3150	0,99	0,90	0,94	0,90
4000	0,94		0,94	
5000	0,78		0,79	
$\alpha_w$ *	0,80		0,80	
NRC **	0,80		0,80	
SAA ***	0,79		0,78	



- \* 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).

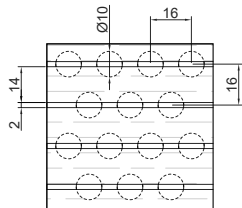
## INOIS® S Acoustic board

### MEASUREMENT RESULTS OF THE SOUND ABSORPTION COEFFICIENT

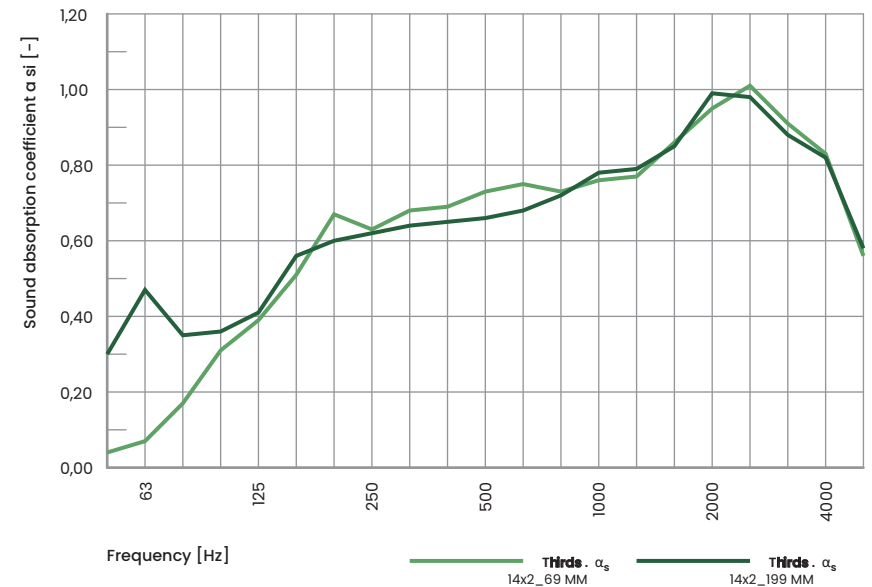
Description and measurement of sound absorption in reverberation rooms. Test method according to STN EN ISO 354: 2004.

Test specimen: INOIS® S 19mm, visible side slotted 14/ 2mm, grid hole core board 16/ 16/ 10 mm, diagonally offset, backside covered with acoustic fleece on **69mm frame and mineral insulation wool with a thickness of 50mm.**

Test specimen: INOIS® S 19mm, visible side slotted 14/ 2mm, grid hole core board 16/ 16/ 10 mm, diagonally offset, backside covered with acoustic fleece on **199mm frame and mineral insulation wool with a thickness of 80mm.**



Frequency . f [Hz]	14x2 Construction height 69 MM		14x2 Construction height 199 MM	
	Thirds . $\alpha_s$ [-]	Octaves . $\alpha_p$ [-]	Thirds . $\alpha_s$ [-]	Octaves . $\alpha_p$ [-]
50	0,04	0,10	0,31	0,40
63	0,07		0,47	
80	0,17		0,35	
100	0,31	0,40	0,36	0,45
125	0,39		0,41	
160	0,51		0,56	
200	0,67	0,65	0,60	0,60
250	0,63		0,62	
315	0,68		0,64	
400	0,69	0,70	0,65	0,65
500	0,73		0,66	
630	0,75		0,68	
800	0,73	0,75	0,72	0,75
1000	0,76		0,78	
1250	0,77		0,79	
1600	0,86	0,95	0,85	0,95
2000	0,95		0,99	
2500	1,01		0,98	
3150	0,91	0,75	0,88	0,75
4000	0,83		0,82	
5000	0,56		0,58	
$\alpha_w$ *	0,75		0,75	
NRC **	0,75		0,75	
SAA ***	0,77		0,75	



- \* 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).