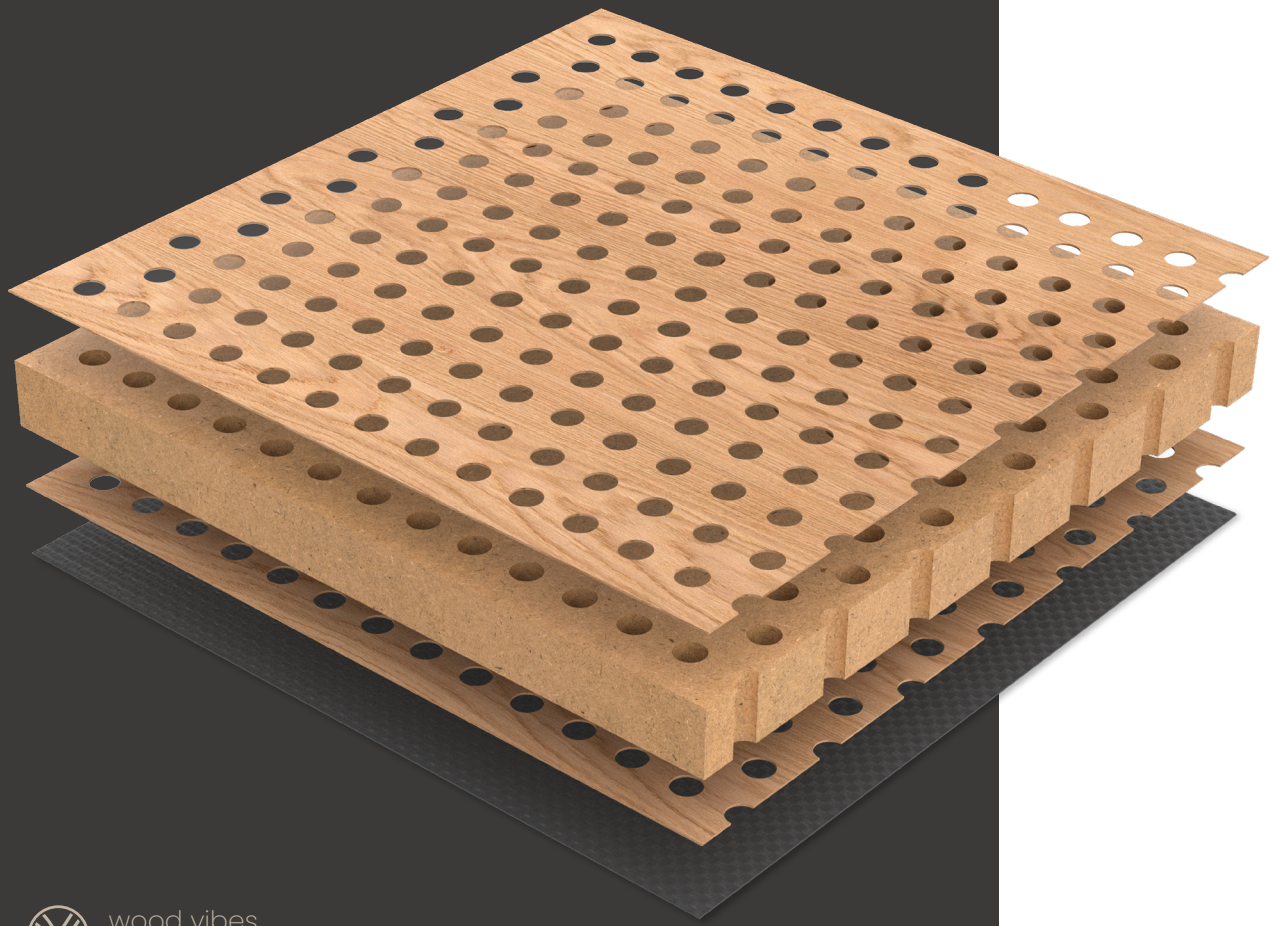
INOIS® D
Acoustic board

Acoustic element with drilled support and drilled noblewood veneer.



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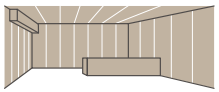
- sound-absorbing
- digital printing possible
- flame-resistant core board possible
- formaldehyd-free



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

INOIS® D
Acoustic board

	Recommended configuration	Individualisation
CORE BOARD		
Core board:	MDF NAF	MDF MR/ FR/ NAF
Core board thickness:	19 mm	see core board table
FORMATS		
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)
VENEER GLUING		
Veneer gluing:	D3 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)	further surface processings: see www.europlac.com/customisation
Surface finishing:	UV-lacquered matt	5 further surface finishes, see www.europlac.com/customisation
Grid hole:	16x16 mm parallel or staggerd	8x8 mm, 32x32 mm
Drilling diameter:	8 mm	3 mm, 6 mm
REVERSE SIDE		
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.

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INOIS® D
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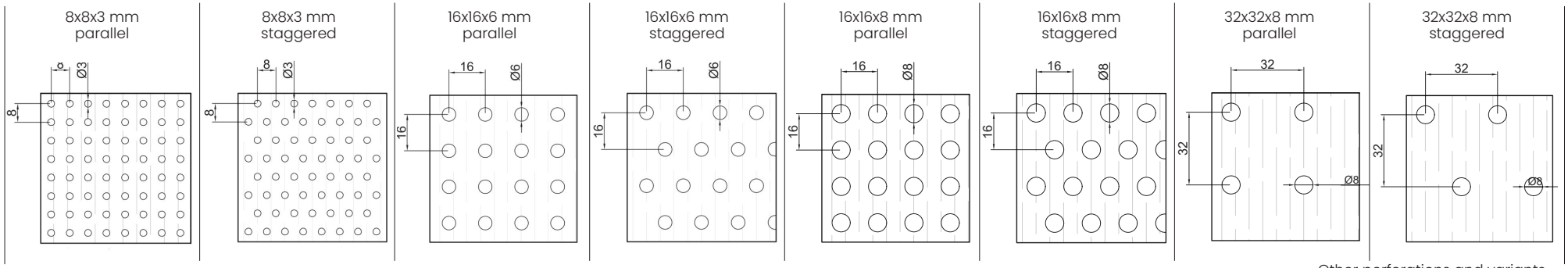
PERFORATION OPTIONS



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.

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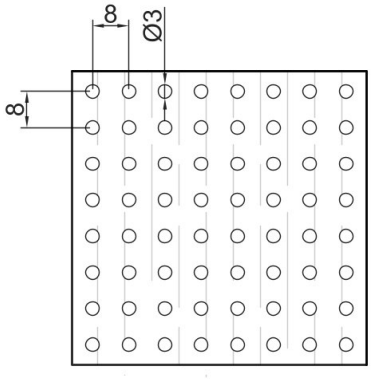
INOIS® D
Acoustic board

MEASURMENT RESULTS OF THE SOUND ABSORPTION COEFFICIENT

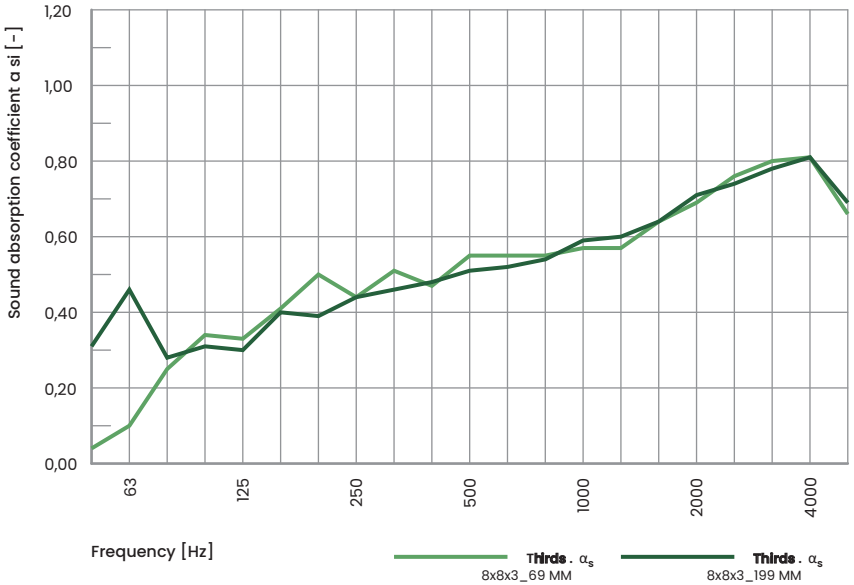
Description and measurement of sound absorption in reverberation rooms. Test method according to STN EN ISO 354: 2004.

Test specimen: INOIS® D 19mm, support hole 8/8/3 mm parallel, covered on the back with acoustic fleece on **69 mm frame and mineral insulation wool with a thickness of 50mm.**

Test specimen: INOIS® D 19mm, support hole 8/8/3 mm parallel, covered on the back with acoustic fleece on **199 mm frame and mineral insulation wool with a thickness of 80mm.**



		8x8x3 Construction height 69 MM		8x8x3 Construction heigth 199 MM	
Frequency . f [Hz]	Thirds . α_s [-]	Octaves . α_p [-]		Thirds . α_s [-]	Octaves . α_p [-]
50	0,04			0,31	
63	0,10	**0,15**		0,46	**0,35**
80	0,25			0,28	
100	0,34			0,31	
125	0,33	**0,35**		0,30	**0,35**
160	0,41			0,40	
200	0,50			0,39	
250	0,44	**0,50**		0,44	**0,45**
315	0,51			0,46	
400	0,47			0,48	
500	0,55	**0,50**		0,51	**0,50**
630	0,55			0,52	
800	0,55			0,54	
1000	0,57	**0,55**		0,59	**0,60**
1250	0,57			0,60	
1600	0,64			0,64	
2000	0,69	**0,70**		0,71	**0,70**
2500	0,76			0,74	
3150	0,80			0,78	
4000	0,81	**0,75**		0,81	**0,75**
5000	0,66			0,69	
α_w *		**0,55**		**0,60**	
NRC **		**0,55**		**0,55**	
SAA ***		**0,57**		**0,55**	



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

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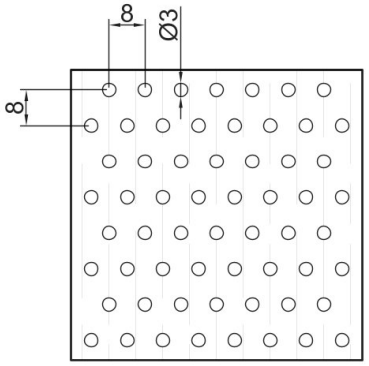
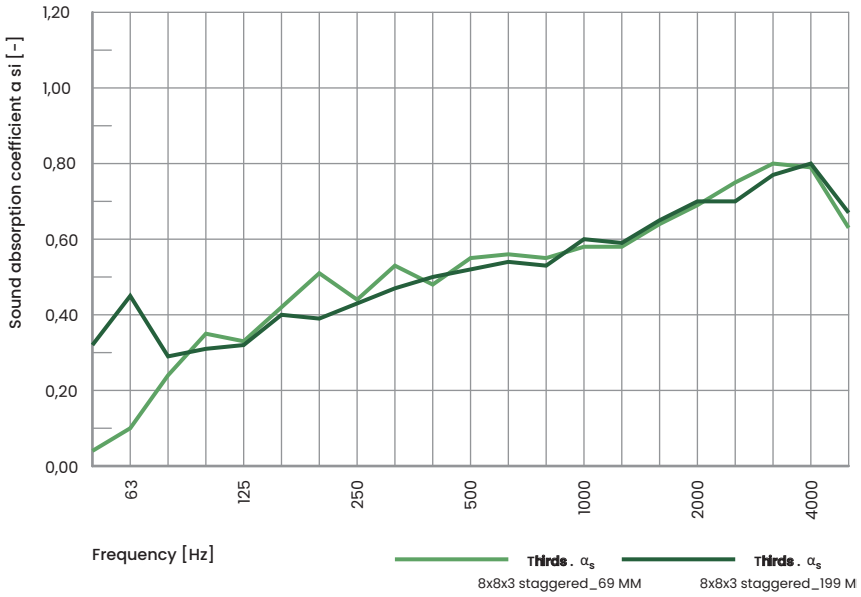


		8x8x3 staggered Construction height 69 MM		8x8x3 staggered Construction height 199 MM	
Frequency . f [Hz]	**Thirds . α_s** [-]	**Octaves . α_p** [-]		**Terzen . α_s** [-]	**Octaves . α_p** [-]
50	0,04	**0,15**		0,32	**0,35**
63	0,10			0,45	
80	0,24			0,29	
100	0,35	**0,35**		0,31	**0,35**
125	0,33			0,32	
160	0,42			0,40	
200	0,51	**0,50**		0,39	**0,45**
250	0,44			0,43	
315	0,53			0,47	
400	0,48	**0,55**		0,50	**0,50**
500	0,55			0,52	
630	0,56			0,54	
800	0,55	**0,55**		0,53	**0,55**
1000	0,58			0,60	
1250	0,58			0,59	
1600	0,64	**0,70**		0,65	**0,70**
2000	0,69			0,70	
2500	0,75			0,70	
3150	0,80	**0,75**		0,77	**0,75**
4000	0,79			0,80	
5000	0,63			0,67	
α_w *	**0,60**			**0,55**	
NRC **	**0,55**			**0,55**	
SAA ***	**0,57**			**0,55**	



* 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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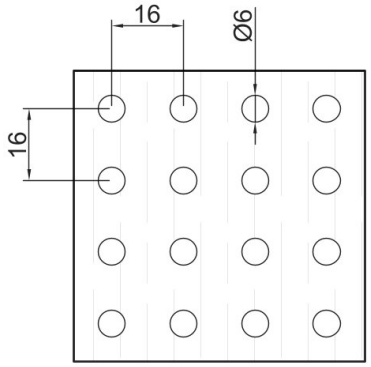
MEASURMENT RESULTS OF THE SOUND ABSORPTION COEFFICIENT

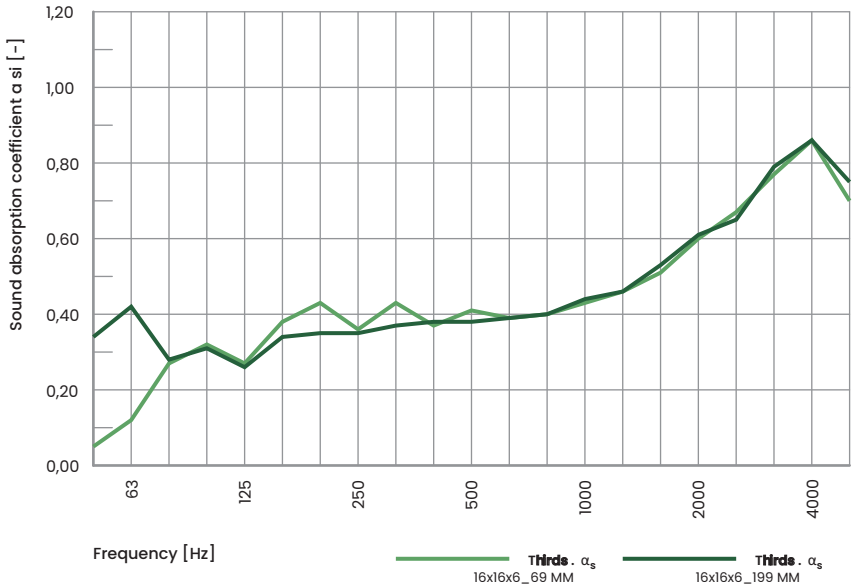
Description and measurement of sound absorption in reverberation rooms. Test method according to STN EN ISO 354: 2004.

Test specimen: INOIS® D 19mm, support hole 16/16/6 mm parallel, covered on the back with acoustic fleece on **69 mm frame and mineral insulation wool with a thickness of 50mm.**

Test specimen: INOIS® D 19mm, support hole 16/16/6 mm parallel, covered on the back with acoustic fleece on **199 mm frame and mineral insulation wool with a thickness of 80mm.**



	16x16x6 Construction height 69 MM		16x16x6 Construction height 199 MM	
Frequency. f [Hz]	Thirds. α_s [-]	Octaves. α_p [-]	Thirds. α_s [-]	Octaves. α_p [-]
50	0,05	0,15	0,34	0,35
63	0,12		0,42	
80	0,27		0,28	
100	0,32	0,30	0,31	0,30
125	0,27		0,26	
160	0,38		0,34	
200	0,43	0,40	0,35	0,35
250	0,36		0,35	
315	0,43		0,37	
400	0,37	0,40	0,38	0,40
500	0,41		0,38	
630	0,39		0,39	
800	0,40	0,45	0,40	0,45
1000	0,43		0,44	
1250	0,46		0,46	
1600	0,51	0,60	0,53	0,60
2000	0,60		0,61	
2500	0,67		0,65	
3150	0,77	0,80	0,79	0,80
4000	0,86		0,86	
5000	0,70		0,75	
α_w *	**0,45**		**0,45**	
NRC **	**0,45**		**0,45**	
SAA ***	**0,45**		**0,44**	



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

Test specimen: INOIS® D 19mm, support hole 16/16/6 mm staggered, covered on the back with acoustic fleece on **69 mm frame and mineral insulation wool with a thickness of 50mm.**

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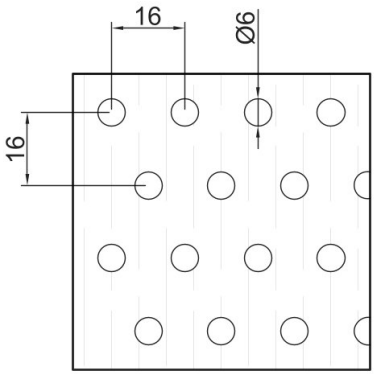
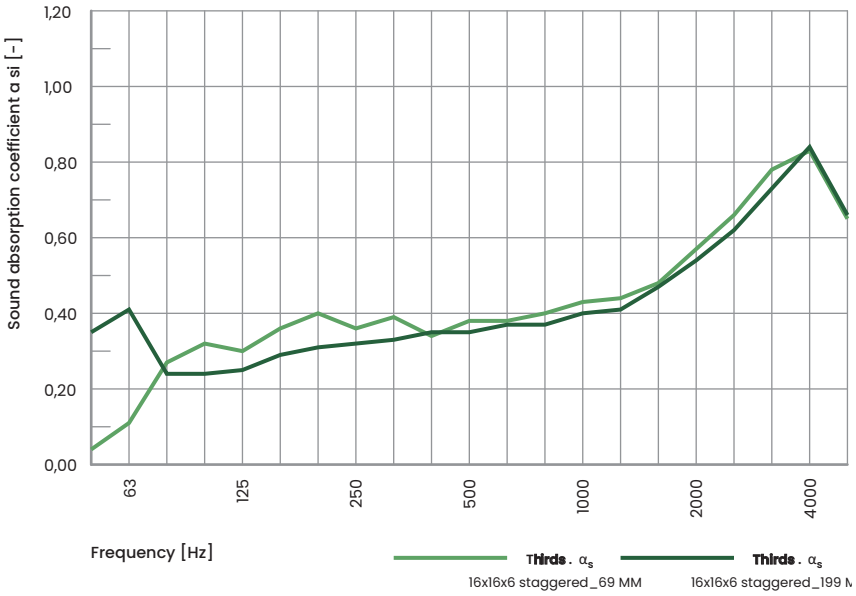


	16x16x6 staggered Construction height 69 MM		16x16x6 staggered Construction height 199 MM	
Frequency . f [Hz]	Thirds . α_s [-]	Octaves . α_p [-]	Thirds . α_s [-]	Octaves . α_p [-]
50	0,04	0,15	0,35	0,35
63	0,11		0,41	
80	0,27		0,24	
100	0,32	0,35	0,24	0,25
125	0,30		0,25	
160	0,36		0,29	
200	0,40	0,40	0,31	0,30
250	0,36		0,32	
315	0,39		0,33	
400	0,34	0,35	0,35	0,35
500	0,38		0,35	
630	0,38		0,37	
800	0,40	0,40	0,37	0,40
1000	0,43		0,40	
1250	0,44		0,41	
1600	0,48	0,55	0,47	0,55
2000	0,57		0,54	
2500	0,66		0,62	
3150	0,78	0,75	0,73	0,75
4000	0,83		0,84	
5000	0,65		0,66	
α_w *	0,40		0,40	
NRC **	0,45		0,40	
SAA ***	0,44		0,40	



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

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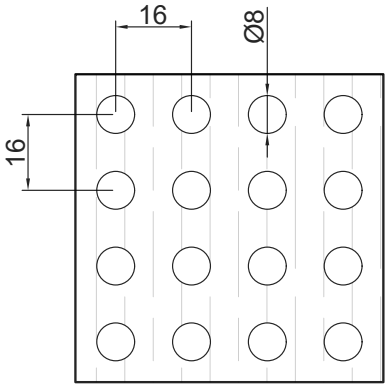
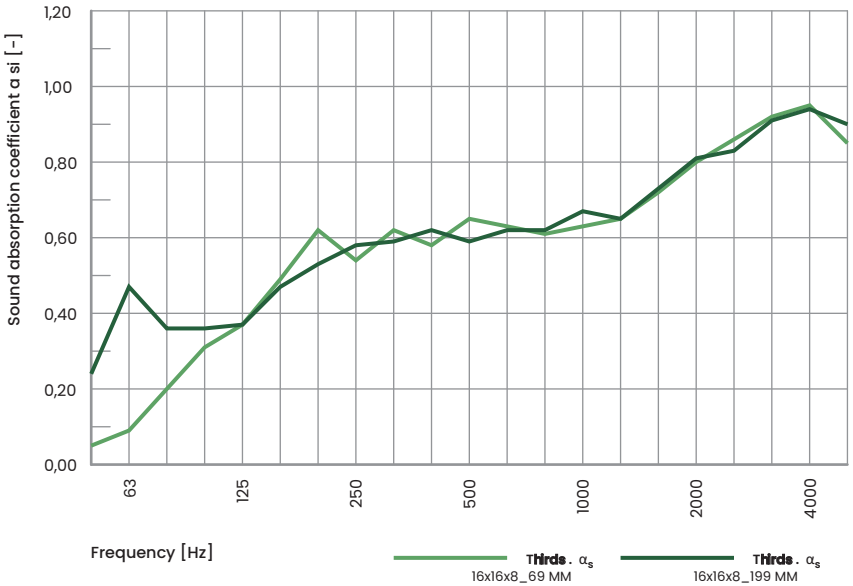


	16x16x8 Construction height 69 MM		16x16x8 Construction height 199 MM	
Frequency . f [Hz]	Thirds . α_s [-]	Octaves . α_p [-]	Thirds . α_s [-]	Octaves . α_p [-]
50	0,05	0,10	0,24	0,35
63	0,09		0,47	
80	0,20		0,36	
100	0,31	0,40	0,36	0,40
125	0,37		0,37	
160	0,49		0,47	
200	0,62	0,60	0,53	0,55
250	0,54		0,58	
315	0,62		0,59	
400	0,58	0,60	0,62	0,60
500	0,65		0,59	
630	0,63		0,62	
800	0,61	0,65	0,62	0,65
1000	0,63		0,67	
1250	0,65		0,65	
1600	0,72	0,80	0,73	0,80
2000	0,80		0,81	
2500	0,86		0,83	
3150	0,92	0,90	0,91	0,90
4000	0,95		0,94	
5000	0,85		0,90	
α_w *	0,65		0,65	
NRC **	0,65		0,65	
SAA ***	0,66		0,65	



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

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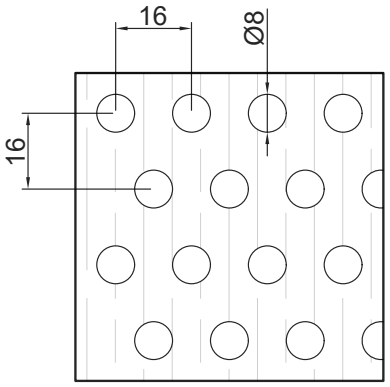
Test specimen: INOIS® D 19mm, support hole 16/16/8 mm staggered, covered on the back with acoustic fleece on **199 mm frame and mineral insulation wool with a thickness of 80mm.**



	16x16x8 staggered Construction height 69 MM		16x16x8 staggered Construction height 199 MM	
Frequency . f [Hz]	Thirds . α_s [-]	Octaves . α_p [-]	Thirds . α_s [-]	Octaves . α_p [-]
50	0,05	0,10	0,33	0,40
63	0,09		0,50	
80	0,20		0,34	
100	0,32	0,40	0,35	0,40
125	0,36		0,36	
160	0,47		0,45	
200	0,58	0,55	0,50	0,50
250	0,52		0,52	
315	0,59		0,55	
400	0,55	0,60	0,56	0,55
500	0,61		0,53	
630	0,58		0,57	
800	0,59	0,60	0,56	0,60
1000	0,59		0,61	
1250	0,60		0,61	
1600	0,65	0,75	0,67	0,75
2000	0,76		0,73	
2500	0,82		0,78	
3150	0,91	0,90	0,87	0,90
4000	0,94		0,93	
5000	0,82		0,86	
α_w *	0,65		0,60	
NRC **	0,60		0,60	
SAA ***	0,62		0,60	

* The weighted sound absorption coefficient according to EN ISO 11654:2001.

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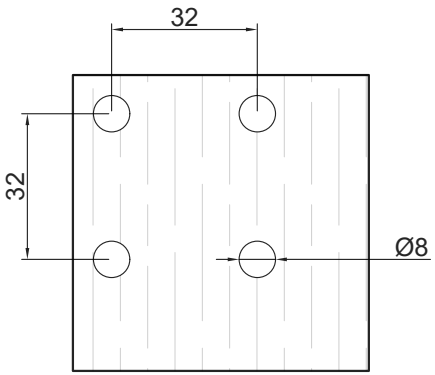
Test specimen: INOIS® D 19mm, support hole 16/16/8 mm parallel, covered on the back with acoustic fleece on **199 mm frame and mineral insulation wool with a thickness of 80mm.**



	32x32x8 Construction height 69 MM		32x32x8 Construction height 199 MM	
Frequency . f [Hz]	Thirds . α_s [-]	Octaves . α_p [-]	Thirds . α_s [-]	Octaves . α_p [-]
50	0,05		0,34	
63	0,11	**0,15**	0,39	**0,30**
80	0,34		0,21	
100	0,27		0,25	
125	0,20	**0,25**	0,20	**0,20**
160	0,28		0,21	
200	0,28		0,21	
250	0,23	**0,25**	0,22	**0,20**
315	0,24		0,21	
400	0,20		0,19	
500	0,20	**0,20**	0,21	**0,20**
630	0,20		0,20	
800	0,20		0,20	
1000	0,22	**0,20**	0,21	**0,20**
1250	0,23		0,21	
1600	0,27		0,27	
2000	0,33	**0,35**	0,34	**0,35**
2500	0,40		0,39	
3150	0,51		0,51	
4000	0,60	**0,55**	0,58	**0,55**
5000	0,49		0,52	
α_w *	**0,25**		**0,25**	
NRC **	**0,25**		**0,25**	
SAA ***	**0,25**		**0,24**	

* 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).

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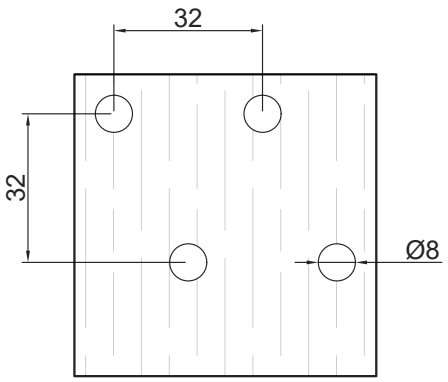
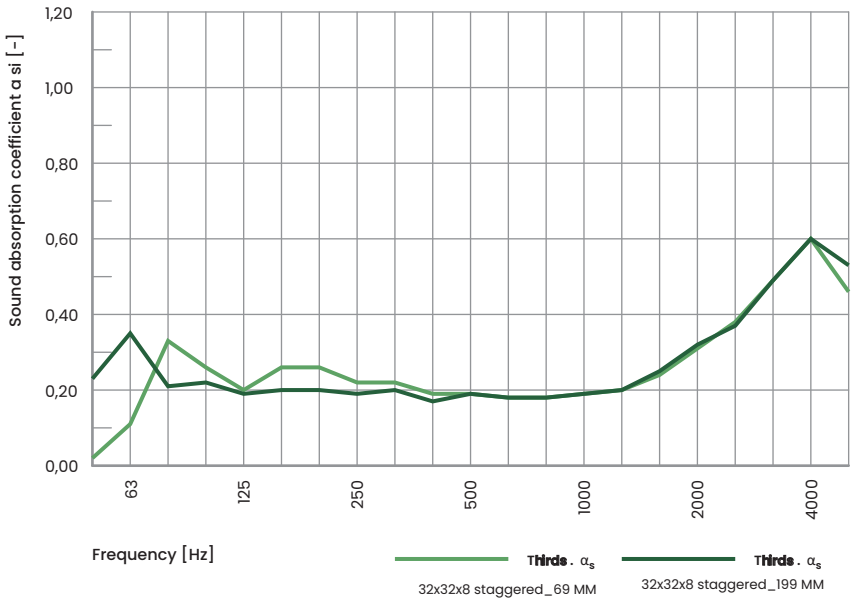
Test specimen: INOIS® D 19mm, support hole 16/16/8 mm staggered, covered on the back with acoustic fleece on **69 mm frame and mineral insulation wool with a thickness of 50mm.**

Test specimen: INOIS® D 19mm, support hole 16/16/8 mm staggered, covered on the back with acoustic fleece on **199 mm frame and mineral insulation wool with a thickness of 80mm.**



	32x32x8 staggered Construction height 69 MM		32x32x8 staggered Construction height 199 MM	
Frequency . f [Hz]	**Thirds . α_s** [-]	**Octaves . α_p** [-]	**Thirds . α_s** [-]	**Octaves . α_p** [-]
50	0,02		0,23	
63	0,11	**0,15**	0,35	**0,25**
80	0,33		0,21	
100	0,26		0,22	
125	0,20	**0,25**	0,19	**0,20**
160	0,26		0,20	
200	0,26		0,20	
250	0,22	**0,25**	0,19	**0,20**
315	0,22		0,20	
400	0,19		0,17	
500	0,19	**0,20**	0,19	**0,20**
630	0,18		0,18	
800	0,18		0,18	
1000	0,19	**0,20**	0,19	**0,20**
1250	0,20		0,20	
1600	0,24		0,25	
2000	0,31	**0,30**	0,32	**0,30**
2500	0,38		0,37	
3150	0,49		0,49	
4000	0,60	**0,50**	0,60	**0,55**
5000	0,46		0,53	
α_w *	**0,25**		**0,25**	
NRC **	**0,25**		**0,20**	
SAA ***	**0,23**		**0,22**	



* 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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