



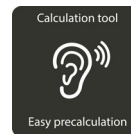
THE ACOUSTIC ROOM DESIGN

Whether a room is perceived as acoustically pleasant largely depends on the reverberation time. The reverberation time indicates the period of time that a sound event requires in order to be inaudible. Through the proper use of sound-absorbing materials, the room acoustics can be specifically tailored to the purpose of the room. The natural ecological texture and low weight per unit area make it ideal for new construction as well as renovation. But it would not do the Admonter name justice if design were to take a back seat in these sophisticated acoustic elements. The Admonter Acoustic elements open up new possibilities for acoustic and visual interior design.

PLANNING

Admonter ACOUSTICs absorb up to 100 % of the incident sound and thus meet the high requirements for visual and functional room design. By varying the overall construction height (distance to the ceiling and type of damping), acoustic properties matching the respective requirements can be created. In order to achieve the optimal auditory effect for the individual spatial situation, it is recommended to consult a designer with expert acoustic knowledge or an acoustician at an early stage.

Feature - benefit advantages wooden acoustic panels



ONLINE CALCULATION - TOOL

Use this service for your individual acoustic room design calculation:
service.admonter.at/raumakustik/en.html



Features wooden acoustic panels	Benefit
Acoustic products made of natural wood (available in different wood species – also Reclaimed wood)	Large choice – differentiation from the competition
Acoustic in combination with conventional air-conditioned ceiling systems	Not only better acoustics, but also combinable with room cooling systems is possible
3 Acoustic products for diverse areas of application	We are offering a suitable acoustic product in natural wood for every area of application
Acoustic online calculation tool for pre-dimensioning	Simple pre-calculation and materialisation in combination with a clean documentation

Admonter flooring is a 100 % natural product. A picture never replaces the reality. For this reason we recommend a visit to your nearest Admonter flooring dealer. He will be pleased to show you samples. Errors and changes possible.



PREMIUM

The natural ecological texture and low weight per unit area make it ideal for new construction as well as renovation. But it would not do the Admonter name justice if design were to take a back seat in these sophisticated acoustic elements. The Admonter Acoustic elements open up new possibilities for acoustic and visual interior design. The eye sees only a part thereof; the rest is seen with the ears!

CONSTRUCTION

- Solid wood top sheet (cutting geometry: 15 mm web – 3 mm slot)
- 30 mm honeycomb core
- Dimension approx. 33 x 200 x 2390 mm
- Acoustic fleece rear lining (simultaneous trickle protection)
- installation guide please find on admonter.com/downloads

PROCESSING

- Efficient and simple machining with conventional woodworking machines
- Concealed, tool-free installation by means of the Admonter
- ACOUSTICs fastening system or
- Direct fastening with clips or clinched nails through the MDF tongue
- See the installation instructions for details

TECHNISCHE INFORMATIONEN

- Surface weight / element: approx. 4,4 kg/m²
- Surface: untreated or natural oiled
- Can also be used on radii and bends
- Free of pollutants and respirable fibres
- Vapour diffusive
- Ambient area: room temperature 10 - 30°C / humidity 25 - 65% / (short-term exceeding or undershooting possible)

COLOUR RANGE



Typee of wood	Grading	Length (mm)	Width (mm)	Thickness (mm)	Texture	Finish
Spruce	basic	2390	200	33	brushed	untreated / natural oiled / white natural oiled
Larch	naturelle	2390	200	33	brushed	untreated / natural oiled / white natural oiled / Alba
Stone-Pine	basic	2100 / 2390	200	33	brushed	untreated / natural oiled / white natural oiled
Oak	basic	2390	200	33	brushed	untreated / natural oiled / stone natural oiled / white natural oiled
Oak finger-jointed	noblesse	2390	200	33	brushed	untreated / natural oiled / stone natural oiled / white natural oiled
Reclaimed Wood hacked H3	-	2100	200	38	hacked	untreated
Reclaimed Wood hacked H4	-	2100	200	38	hacked	untreated
Fir rift/semi-rift finger-jointed	noblesse	2390	200	35	brushed	untreated / natural oiled / white natural oiled

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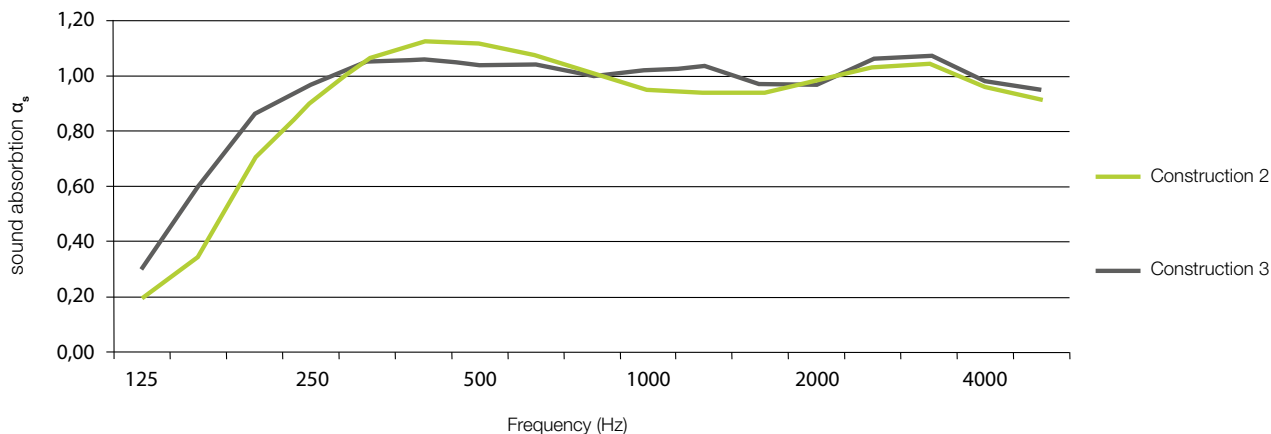


except Premium





Premium - sound absorption with backfilling

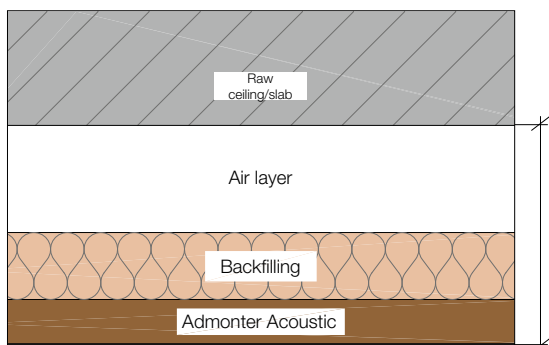


	Frequency [Hz]	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Construction 2*	alpha_s accord. EN 354	0,19	0,35	0,70	0,90	1,06	1,12	1,11	1,07	1,00	0,95	0,94	0,94	0,98	1,03	1,04	0,96	0,91
	alpha_p accord. EN 11654	0,20			0,90			1,00			0,95			1,00			0,95	
Construction 3*	alpha_s accord. EN 354	0,30	0,60	0,86	0,97	1,05	1,06	1,04	1,04	1,00	1,02	1,03	0,97	0,97	1,06	1,07	0,98	0,95
	alpha_p accord. EN 11654	0,35			0,95			1,00		1,00			1,00		1,00		1,00	

*Sound absorption class accord. EN 11654: A

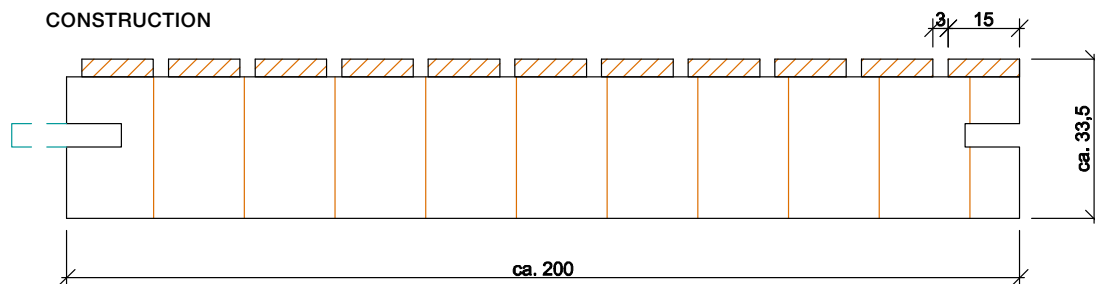
*Sound absorption accord. EN 11654: alpha_w 1,00

*Source: Hallraummessung accord. EN 354 & EN 11654
Labor für Bauphysik, TU Graz; Notified Body Nr.: 2064)



	Air layer	Backfilling	Total constr. height
Construction 2	10 mm	50 mm	approx. 93 mm
Construction 3	80 mm	50 mm	approx. 163 mm

Total constr. height



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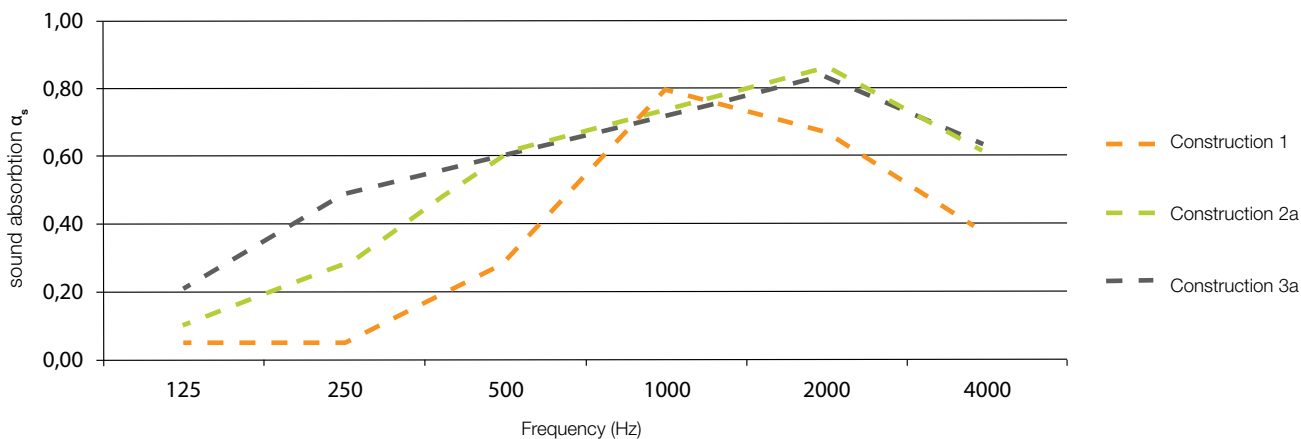
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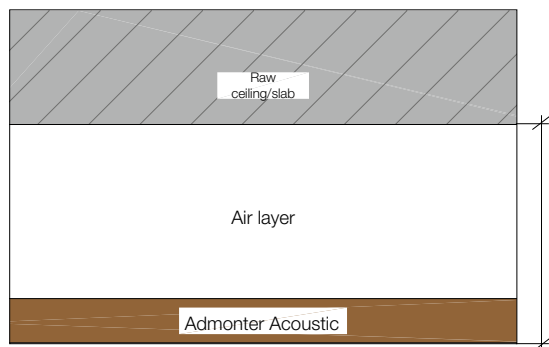


Wooden panels
Acoustics PREMIUM

sound absorption without Backfilling



	Frequency [Hz]	125	250	500	1000	2000	4000
Construction 1	α_s accord. EN 354	0,05	0,05	0,29	0,80	0,67	0,37
Construction 2a	α_s accord. EN 354	0,10	0,28	0,61	0,74	0,86	0,61
Construction 3a	α_s accord. EN 354	0,21	0,49	0,61	0,72	0,84	0,63



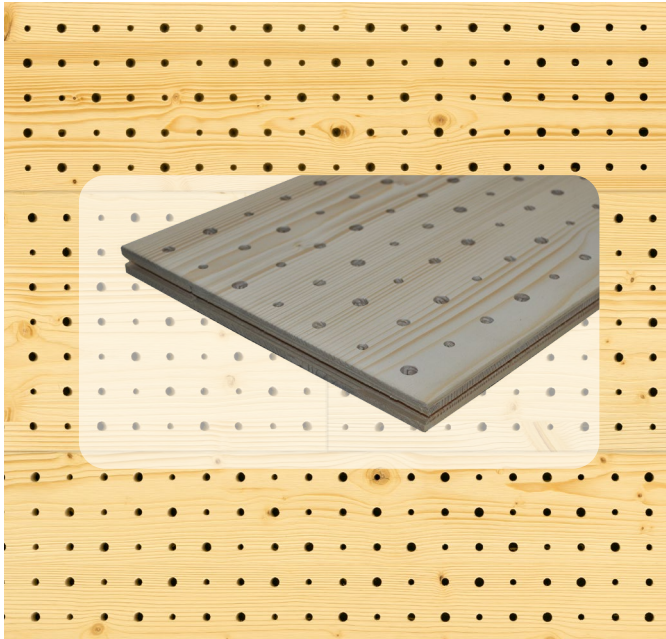
	Air layer	Backfilling	Total constr. height
Construction 1	15 mm	-	approx. 48 mm
Construction 2a	60 mm	-	approx. 93 mm
Construction 3a	120 mm	-	approx. 153 mm

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DOT Advantages:

- Combinable with GALLERIA
- Ideal for low and medium-frequency range
- Suitable for use in sports or multi-purpose halls

CONSTRUCTION

- 3-layer Galleria Element
- Perforation of different diameters
- Acoustic fleece rear lining (simultaneous trickle protection)
- Dimension approx. 1824 - 2400 x 244 x 19 mm
- installation guide please find on admonter.com/downloads

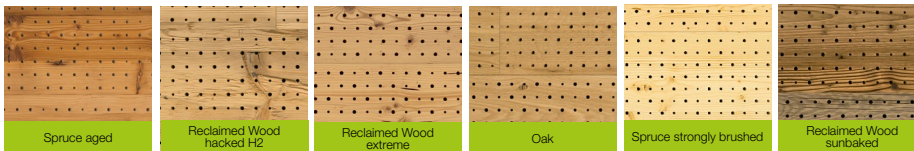
PROCESSING

- Efficient and simple machining with conventional woodworking machines
- DOT is grooved all around with a foreign spring for endless laying the attachment takes place by means of a profile claw on the corresponding subtexture
- See the installation instructions DOT for details

TECHNICAL INFORMATION

- Surface weight / element: approx. 8,56 kg/m² (Spruce)
- Texture: untreated or natural oiled
- Free of pollutants and respirable fibres Vapour diffusive
- Ambient area: SWP2/2NS humidity 25 - 80%

COLOUR RANGE



Typee of wood	Grading	Length (mm)	Width (mm)	Thickness (mm)	Texture	Finish
Spruce aged brushed	basic	2400	244	19	brushed	untreated / natural oiled / white natural oiled
Reclaimed Wood H2	-	1824 / 2400	244	19	hacked	untreated / natural oiled
Reclaimed Wood extreme	-	1824 / 2200 / 2400	244	19	brushed	untreated / natural oiled
Oak	rustic	2400	244	19	brushed	untreated / natural oiled / stone natural oiled / white natural oiled
Spruce strongly brushed	basic	2400	244	19	brushed	untreated / natural oiled / white natural oiled
Reclaimed Wood sunbaked	-	1824 / 2400	244	19	brushed	untreated

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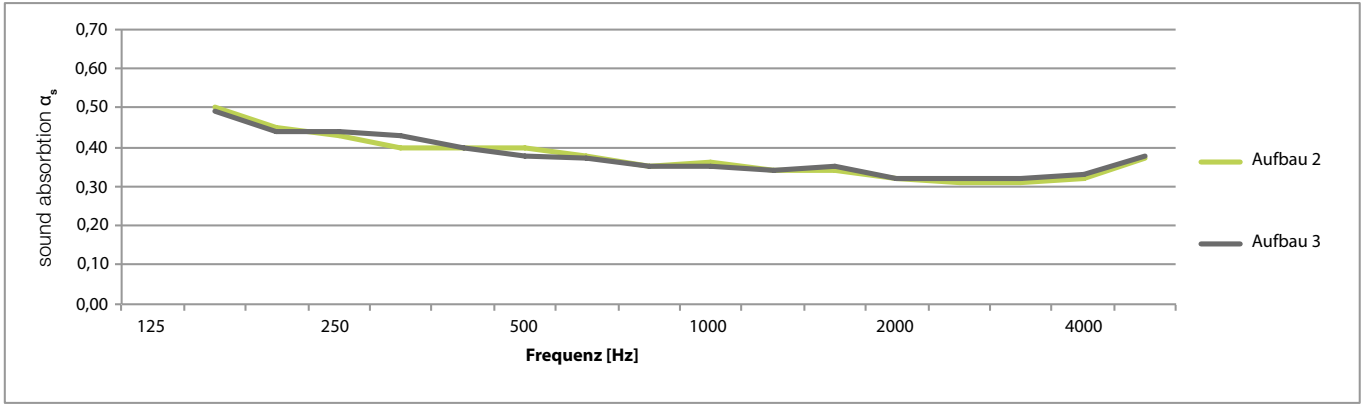


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sound absorbtion with Backfilling



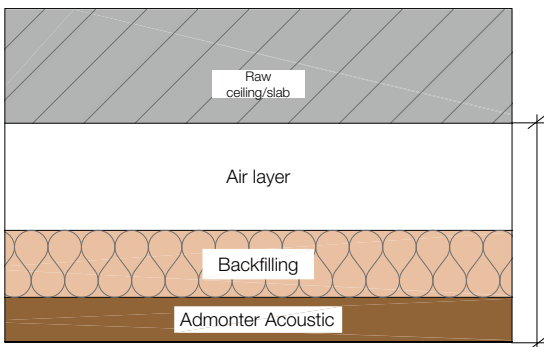
	Frequency [Hz]	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Construction 2	alpha_s accord. EN 354	0,32	0,50	0,43	0,43	0,40	0,39	0,41	0,38	0,35	0,36	0,33	0,34	0,32	0,31	0,31	0,32	0,37
	alpha_p accord. EN 11654	0,30			0,40			0,40			0,35			0,30				0,35
Construction 3*	alpha_s accord. EN 354	0,40	0,49	0,42	0,44	0,43	0,38	0,38	0,37	0,35	0,35	0,34	0,35	0,32	0,32	0,32	0,33	0,38
	alpha_p accord. EN 11654	0,30			0,45			0,40			0,35			0,35				0,35

*Sound absorption class accord. EN 11654: D

*Sound absorbtion accord. EN 11654: alpha_w 0,40 (L)

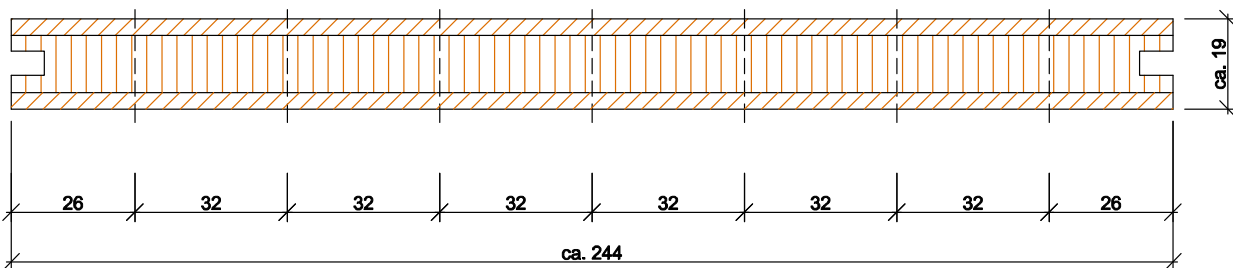
max. Absorption with <= 250 Hz

*Source: Hallraummessung accord. EN 354 & EN 11654 Labor für Bauphysik, TU Graz; Notified Body Nr.: 2064)



	Air layer	Backfilling	Total constr. height
Construction 2	10 mm	50 mm	approx. 79 mm
Construction 3	90 mm	50 mm	approx. 159 mm

CONSTRUCTION

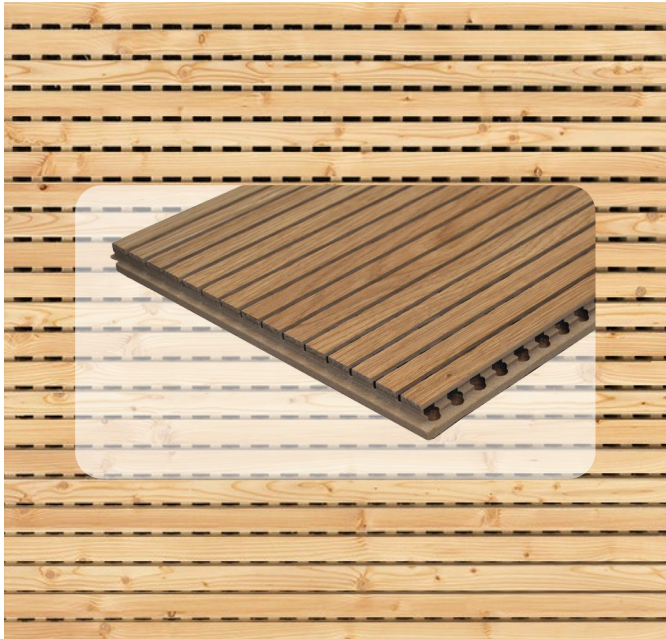


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LINEAR

PROCESSING

- Efficient and simple machining with conventional woodworking machines
- Concealed, tool-free installation by means of the Admonter
- ACOUSTICs fastening system or
- Direct attachment with clamps or compressed nails through the groove cheek on wooden substructure

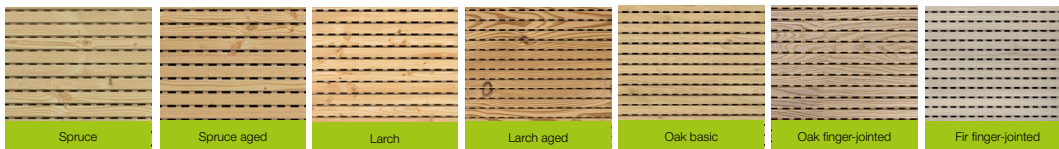
CONSTRUCTION

- Solid wood 3-layer
- cutting geometry: 13 mm web – 3 mm slot) back with hole
- Acoustic fleece rear lining (simultaneous trickle protection)
- installation guide please find on admonter.com/downloads

TECHNICAL INFORMATION

- Surface weight / Element: approx. 11,14 kg/m²
- Texture: untreated or natural oiled
- Free of pollutants and respirable fibres
- Vapour diffusive
- Ambient area: room temperature 10 - 30°C / humidity 25 - 65% / (short-term exceeding or undershooting possible)

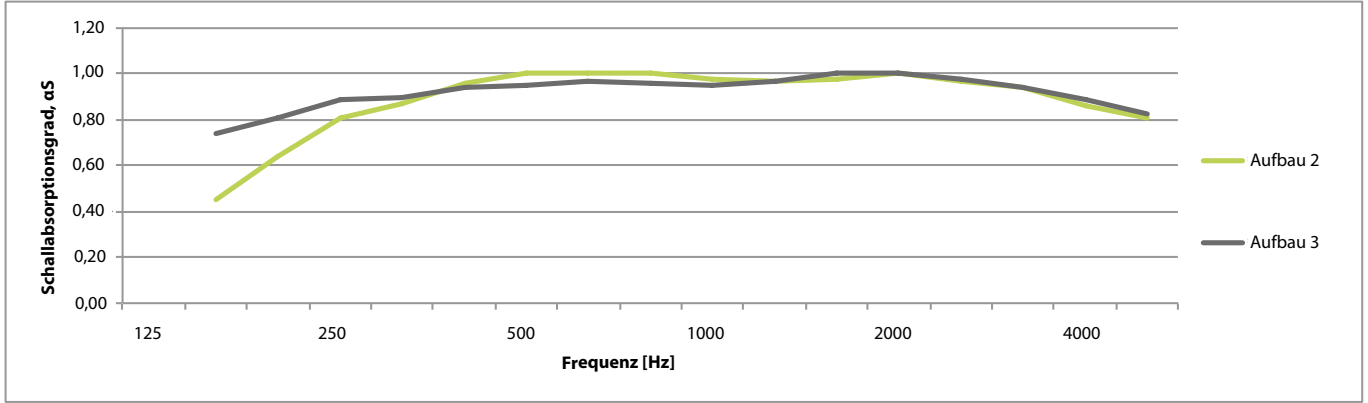
COLOUR RANGE



Typee of wood	Grading	Length (mm)	Width (mm)	Thickness (mm)	Texture	Finish
Spruce	basic	2400	240	19	brushed	untreated / natural oiled / white natural oiled
Spruce aged	basic	2400	240	19	brushed	untreated / natural oiled / white natural oiled
Larch	naturelle	2400	240	19	brushed	untreated / natural oiled / white natural oiled
Larch aged	naturelle	2400	240	19	brushed	untreated / natural oiled / white natural oiled
Oak	basic	2400	240	19	brushed	untreated / natural oiled / stone natural oiled / white natural oiled
Oak finger-jointed	noblesse	2400	240	19	brushed	untreated / natural oiled / stone natural oiled / white natural oiled
Fir rift/semi-rift finger-jointed	noblesse	2400	240	20	brushed	untreated / natural oiled / white natural oiled

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sound absorbtion with Backfilling

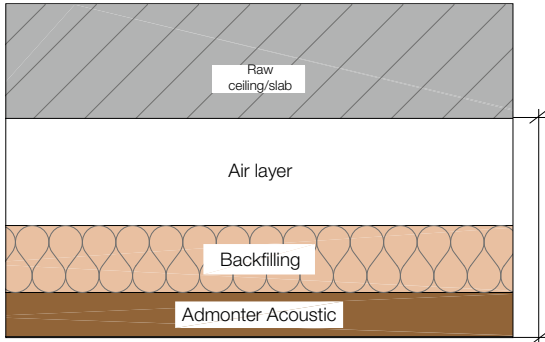


	Frequency [Hz]	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Construction 2	α _s accord. EN 354	0,26	0,48	0,64	0,83	0,87	0,96	1,00	1,00	1,00	1,00	0,97	0,98	1,00	0,99	0,94	0,86	0,81
	α _p accord. EN 11654	0,30			0,80			1,00			1,00			1,00			0,85	
Construction 3*	α _s accord. EN 354	0,35	0,74	0,81	0,91	0,88	0,94	0,95	0,97	0,96	0,95	0,97	1,00	1,00	1,00	0,94	0,89	0,83
	α _p accord. EN 11654	0,40			0,85			0,95			0,95			1,00			0,90	

*Sound absorption class accord. EN 11654: A

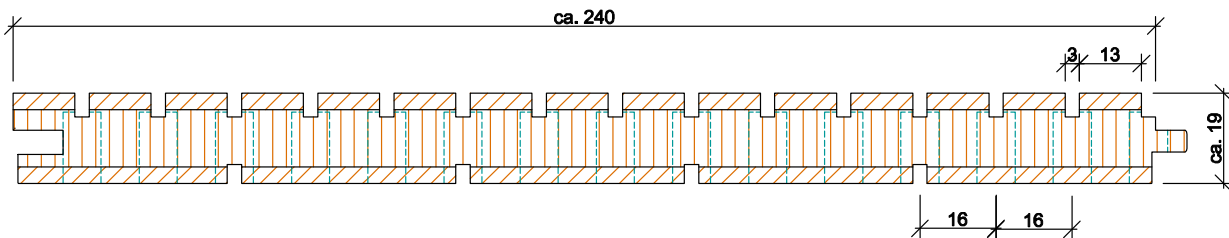
*Sound absorbtion accord. EN 11654: α_w 1,00

*Source: Hallraummessung accord. EN 354 & EN 11654
Labor für Bauphysik, TU Graz; Notified Body Nr.: 2064)



	Air layer	Backfilling	Total constr. height
Construction 2	10 mm	50 mm	approx. 79 mm
Construction 3	90 mm	50 mm	approx. 159 mm

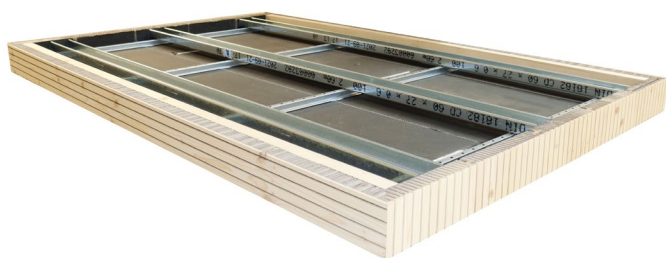
CONSTRUCTION



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Wooden panels
Acoustics Premium Ceiling sail



PREMIUM CEILING SAIL

Simple installation, noticeably better room acoustics and a noble design - these are the features of the Admonter Acoustic Premium pre-assembled ceiling sails.

- As the upper side is also acoustically effective, this results in a higher surface-related absorption capacity.
- Ideal for use with thermal component activation (ceiling heating/cooling), as there is no area-related shielding.
- Relatively quick retrofitting possible in finished rooms
- Can be placed freely in the room to achieve the best acoustic solution on site

Calculation with the Admonter acoustic calculation tool
<https://service.admonter.at/raumakustik/de.html>

CONSTRUCTION

- Dimensions: Typee A = 2200 x 995 x 80mm, Typee B = 1000 x 795 x 80 mm
- Surface weight / element: Typee A approx. 23 kg, Typee B approx. 12kg
- Finish: brushed natural oiled
- Solid wood top sheet (cutting geometry: 15 mm web – 3 mm slot)
- 30 mm honeycomb core
- Acoustic fleece rear lining (simultaneous trickle protection)
- No on-site processing necessary, as assembled and glued at the factory
- Ready for ceiling installation

ASSEMBLY

- The fixing of the pre-assembled ceiling sails is done by using approved-suspension systems.
- Suitable suspension systems are for example „Anker-Fix“ quick hangers and the wire with eyelet
- Depending on the building material, the suspension system must be fastened to the ceiling by using approved or standardised anchoring elements (dowels, screws) and in accordance with the manufacturer's specifications and by experts. For further details please refer tot he installation instructions.

TECHNICAL INFORMATION

- Free of pollutants and respirable fibres
- Vapour diffusive
- Ambient area: room temperature 10 - 30°C / humidity 25 - 65% / (short-term exceeding or undershooting possible)
- CE-marking according EN 13964
- Reaction to fire according to EN 13964: F

Typee of wood	Grading	Type	Length (mm)	Width (mm)	Height (mm)	Texture	Finish		
Spruce	basic	Type A	2200	995	80	brushed	natural oiled	white natural oiled	
		Type B	1000	795	80				
Larch Alba	naturelle	Type A	2200	995	80	brushed	natural oiled		
		Type B	1000	795	80				
Larch	naturelle	Type A	2200	995	80	brushed	natural oiled	white natural oiled	
		Type B	1000	795	80				
Stone-Pine	basic	Type A	2200	995	80	brushed	natural oiled	white natural oiled	
		Type B	1000	795	80				
Oak	basic	Type A	2200	995	80	brushed	natural oiled	white natural oiled	stone natural oiled
		Type B	1000	795	80				
Oak finger-jointed	noblesse	Type A	2200	995	80	brushed	natural oiled	white natural oiled	stone natural oiled
		Type B	1000	795	80				
Fir Rift-/Halbrift finger-jointed	noblesse	Type A	2200	995	80	brushed	natural oiled	white natural oiled	
		Type B	1000	795	80				

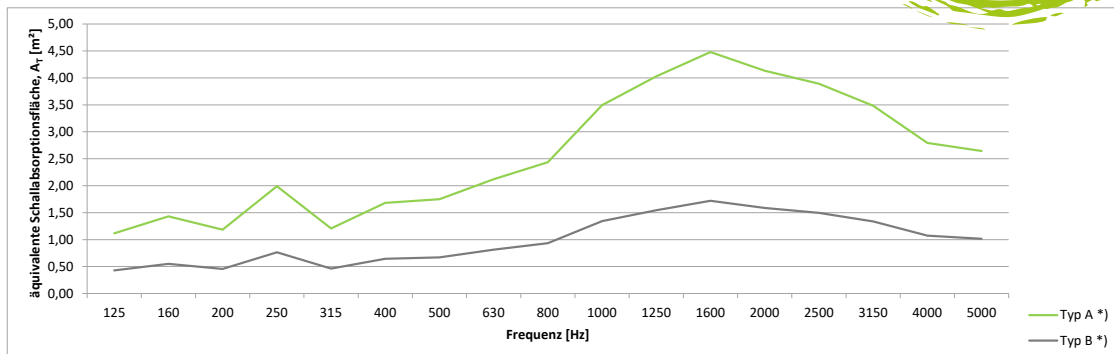
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except Premium



Schallabsorption



	Frequenz [Hz]	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Typ A *)	A _T [m²]	1,12	1,43	1,19	1,99	1,21	1,68	1,75	2,12	2,44	3,49	4,03	4,48	4,13	3,89	3,48	2,79	2,64
Typ B *)	A _T [m²]	0,43	0,55	0,46	0,76	0,46	0,65	0,67	0,81	0,94	1,34	1,55	1,72	1,59	1,49	1,34	1,07	1,02

A_T = äquivalente Schallabsorptionsfläche je Stk. in Anlehnung an EN ISO 354

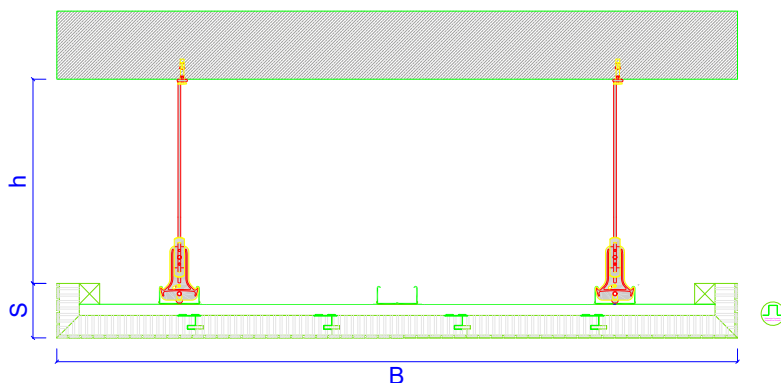
gültig für Abhängöhe h = 300 mm, ohne zusätzliche oberseitige Bedämpfung, bei Einzelmontage horizontal & parallel zur Decke

gültig für Abhängöhe h = 300 mm, ohne zusätzliche oberseitige Bedämpfung, bei Mehrfachmontage mit Reihenabstand >600 mm horizontal & parallel zur Decke

*) Datenquelle: Admonter Alphakabine

Typ A ... 2200x995mm

Typ B ... 1000x795mm



S = 80 mm

B = 995 mm Type A

795 mm Type B

h = 300 mm Suspension height
without additional top-side damping

In the event of large suspension heights (> 400 mm) and/or the possibility of draughts at the installation site, suitable precautions must be taken to prevent the sail from swinging, e.g. diagonal bracing, etc.

If „optional top-side damping“ is used to further increase the acoustic absorption behaviour, especially in the low-frequency range, insulation materials with the following properties should be preferred: e.g. „Floorrock® SE“ (rockwool.de), 30 mm thick.

For alternative products, a length-related flow resistance of approx. 25 kPa-s/m² must be observed.

Features wooden acoustic panels	Benefit
Acoustic products made of natural wood (available in different wood species – also Reclaimed wood)	Large choice – differentiation from the competition
Acoustic in combination with conventional airconditioned ceiling systems	Not only better acoustics, but also combinable with room cooling systems is possible
Acoustic online calculation tool for pre-dimensioning	Simple pre-calculation and materialisation in combination with a clean documentation

Our floors, walls, ceilings, stairs, doors or acoustic solutions are perfectly coordinated to make your ideas come true and to give every room a very special atmosphere.



PREMIUM and DOT as air-conditioned ceiling-systemes

The Admonter „ACOUSTICs Premium and DOT“ can be combined with commercially available ceiling air conditioning systems in order to regulate the room climate. When comparing this combination with Acoustics Premium sole use, there might be lightly more joint formation due to higher varying differences in humidity of the wood between summer and winter. The achieved cooling power mainly depends on the air conditioning system used.

MECHANICS / INSTALLATION

- Installation according to the current „Installation Instructions ACOUSTICs“
- Alternatively: mount the profile clamps directly onto the air condition profiles if applicable
- All pipework systems must not pressurise the Admonter ACOUSTICs Premium at any stage

CLIMATE TECHNOLOGY

- Automatic regulation (based on the room climate) of the flow temperature; the sole passive dew switch, attached on the flow temperature pipe is not sufficient.
- It is recommended to install one Fidbox per cooling circuit between the ceiling air conditioner and the acoustic element. In this way the different climates are documented, which protects the installer of the Admonter Acoustics.

Fidbox: Side with adhesive strip = up side (side with air conditioning system)

- The detailed specifications according to admonter.com/klimadecke must be met.
- *) at minimum measurement accuracy +/- 1K and +/- 5% rH

Exemplary calculation examples (based on h,x diagram):

28°C room temperature; 55 % relative humidity --> require 23°C minimum heat sink temperature

30°C room temperature; 60 % relative humidity --> require 26°C minimum heat sink temperature etc.