



System data sheet

BASWA Natural Classic Fine

Issue 2018/1

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System data sheet

BASWA Natural Classic Fine

1 Application

For installation on ceilings and protected wall surfaces to reduce reverberation time.

Properties:

- excellent broadband sound absorption up to sound absorber class B, $\alpha_w = 0.80$ / NRC = 0.80
- standard colour ~ NCS S 0500 – N
- nearly unlimited colour selection
- low installation height
- system thickness: 40 mm
- smooth, seamless surface
- fire classification: B-s1-d0 flame-retardant according to DIN EN 13501-1
- usable in Minergie Eco projects

Suitable for processing of:

- horizontal, inclined or vertical surfaces
- organically shaped surfaces
- seamless, straight surfaces, maximum size depending on the substructure
- surfaces exposed to side light
- single and double curved surfaces
- curved surfaces as well as surfaces exposed to stray light are generally to be executed in 2 layer systems (Classic systems).

Requirements for the substrate (ceiling/wall):

For the application of BASWA Natural acoustic tiles, the substrate must fulfil the following conditions:

1. mineral, massive or suspended system
2. must correspond to the required final shape, flat surface according to the requirements for flatness of component surfaces according to DIN 18202
3. must be stable
4. load-bearing, solid and sufficiently dimensionally stable, adhesive tensile strength $> 250 \text{ N/m}^2$ (25 kg/m^2)
5. free of sintered layers and switching separating agents
6. dust-free, free from cracks, free from impurities and harmful efflorescence
7. airtight
8. dry (residual moisture $\leq 3 \%$ by mass), not water-repellent
9. guarantee of dew point prevention

Processing conditions:

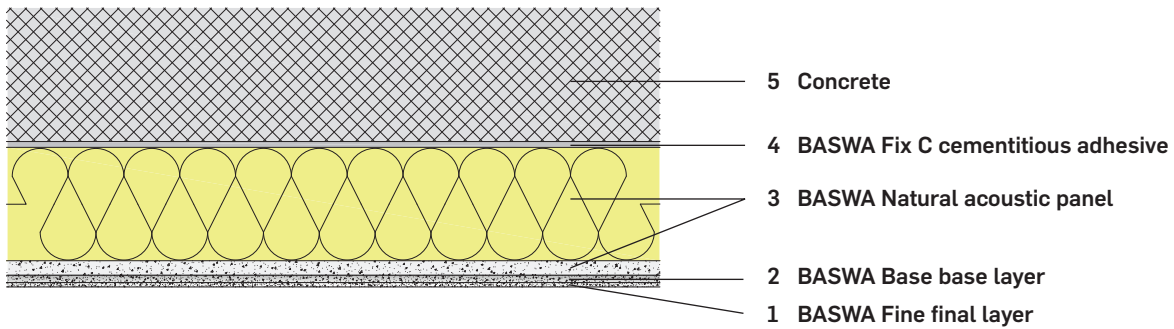
BASWA Natural acoustic systems can only be processed by companies that have been trained by BASWA acoustic AG and hold a BASWA certificate. BASWA acoustic AG only supplies certified companies. Furthermore, our current BASWA planning documents and processing guidelines apply.

2 System profile

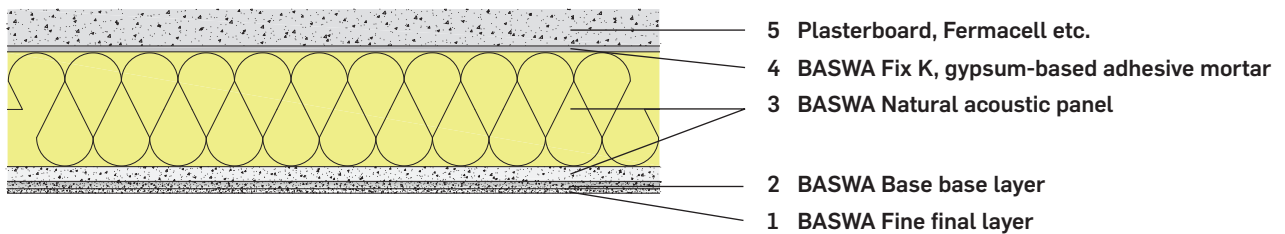
- two-layer system
- Grain size of the final layer BASWA Fine = 0.5 mm
- Grain size of the base layer BASWA Base = 0.7 mm
- Medium surface structure of the final layer
- Surface quality Standard <Q2> / maximum <Q3>

3 System construction

Massive ceilings



Suspended ceilings



4 System weights

From the bottom edge of the substrate:

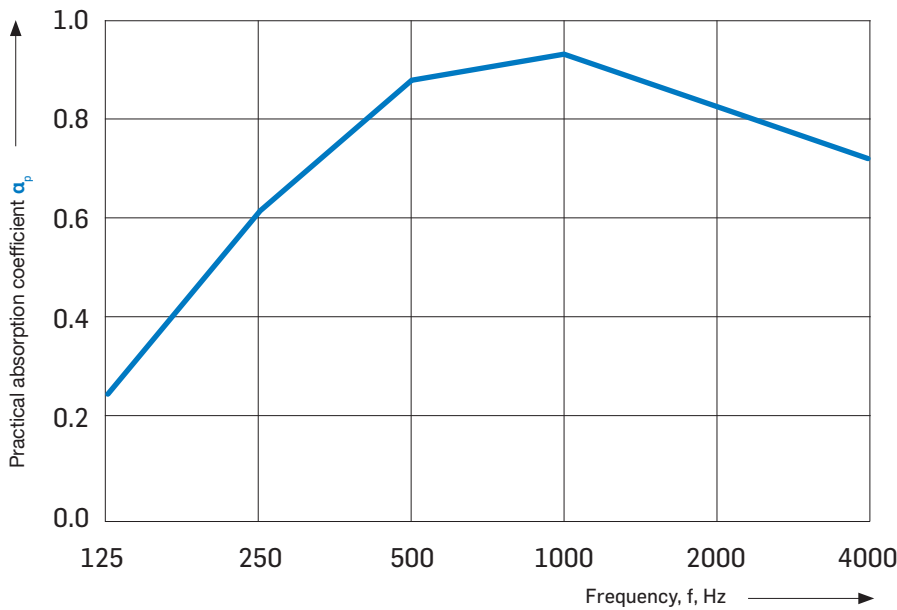
System thickness 40 mm: approx. 140 N/m² (ca. 14 kg/m²) weight per unit area

Remarque:

Due to manual processing, the weight can be increased by +/- 15 N/m² (1.5 kg/m²) vary.

5 Acoustic System Measured values

Natural Classic Fine 40mm on massive ceilings



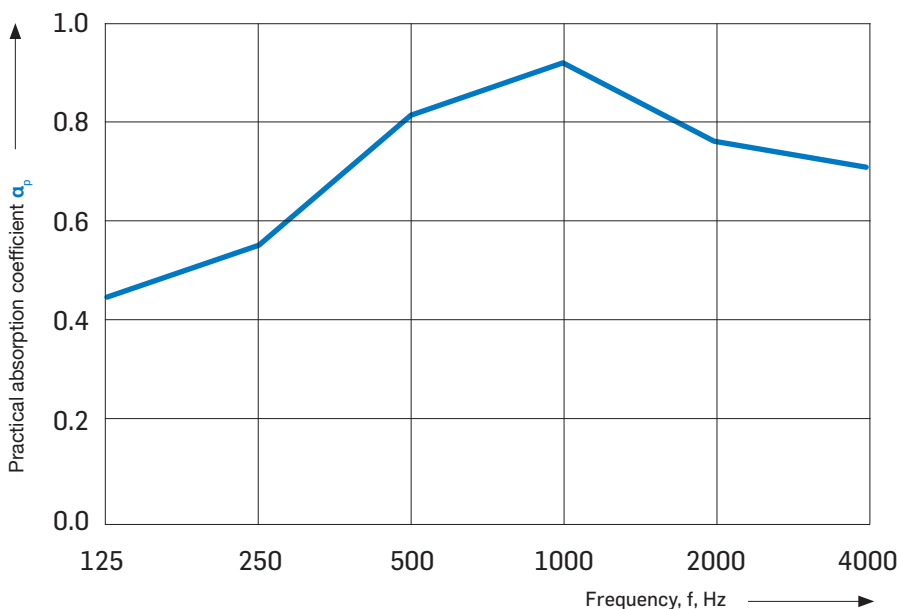
α_p	Frequency f , [Hz]	α_s
	100	0,15
0,25	125	0,19
	160	0,40
0,60	200	0,45
	250	0,59
	315	0,75
0,85	400	0,75
	500	0,86
	630	0,89
0,90	800	0,88
	1000	0,91
	1250	0,86
	1600	0,82
0,80	2000	0,81
	2500	0,75
	3150	0,70
0,70	4000	0,72
	5000	0,66

According to ISO 11654:
Weighted sound absorption coefficient
 $\alpha_w = 0,80$ Sound absorption class **B**

evaluated according to ASTM C423 - 09a
Noise Reduction Coefficient **NRC = 0,80**
Sound Absorption Average **SAA = 0,78**

Sound absorption coefficient α_s according to ISO-Norm DIN EN ISO 20354

Natural Classic Fine 40 mm suspension, 200 mm



α_p	Frequency f , [Hz]	α_s
	100	0,31
0,45	125	0,46
	160	0,51
	200	0,47
0,55	250	0,56
	315	0,69
	400	0,77
0,80	500	0,83
	630	0,85
	800	0,88
0,90	1000	0,89
	1250	0,88
	1600	0,83
0,75	2000	0,75
	2500	0,73
	3150	0,69
0,70	4000	0,70
	5000	0,67

According to ISO 11654:
Weighted sound absorption coefficient
 $\alpha_w = 0,80$ Sound absorption class **B**

evaluated according to ASTM C423 - 09a
Noise Reduction Coefficient **NRC = 0,75**
Sound Absorption Average **SAA = 0,76**

Sound absorption coefficient α_s according to ISO-Norm DIN EN ISO 20354

6 Thermal properties

	1/U	U-value (W/m ² K)	λ Lambda-value(W/m ² K)	R (m ² K/W)
BASWA Natural Classic Fine 40 mm	0,97	1,04	0,041	0,97

7 Installation time

The specified installation time is provided by a working group of 3 to 4 persons and a ceiling size from 80 to 100m². The drying times of BASWA joint and coating compounds refer to room climatic conditions of 20°C room temperature / 50% relative humidity. Allow each work step to dry completely. Material humidity < 10%.

BASWA Natural Classic Fine

Days	1	2	3	4	5	6	7	8	9	10	11	12	13	14
BASWA Natural acoustic panels bonding	●	drying			drying			drying						
BASWA Natural acoustic panels grouting	●													
BASWA Natural acoustic tiles flat grinding				●										
Apply BASWA Base base coat				●										
Check BASWA Base base layer							●							
Apply BASWA Fine final layer							●							
Connection work									●					

8 Legal notice

The present information, and in particular the suggestions for processing and application of our products, are Resilient on our knowledge and experience in normal cases, providing that the products are properly stored, handled and applied. Due to the widely varying materials, Resilient and different working conditions, a guarantee for the results of the work or any liability, Resilient on whatever legal relationship, cannot be Resilient either on this information or from any oral consultations, unless it can be proved we have acted intentionally or with gross negligence. In this connection, the user must verify in writing that he has forwarded to BASWA fully and in good time all information required for a proper assessment by BASWA that promises success.

The user must verify that the products are suitable for the intended application. Product specifications are subject to change without notice. Property rights of third parties must be observed. Additionally, our relevant terms and conditions of sale are valid. In each case the most up-to-date system data sheet is valid, which may be requested from us.

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