



**System Data Sheet**  
**BASWAphon Core**

Issue 2015/1

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# System Data Sheet

## BASWAphon Core

### 1 Application

The BASWAphon Core System is used with TABS ceilings (thermo-active component systems). It is worth discharging any energy that is in the room through the sound-absorbing BASWAphon Core panels into the thermally activated ceiling.

With new building projects that use TAB systems, piping (mainly plastic pipes) are used above the lowest reinforced steel position in solid ceilings. Water is used as the heating and/or cooling medium. The solid ceiling is thermally activated in the area of the piping as a transfer and storage mass.

In order to ensure the transfer of the thermal energy from the activated concrete ceiling through our sound-absorbing system, a specially shaped and slotted aluminium profile is used, which is a main component of the BASWAphon Core panels.

With this thermally conductive acoustic system, you use the storage capacity of the TABS ceiling in an effective way to heat up or cool the area while still having seamless and smooth modern architecture.

#### Properties:

- Excellent broadband sound absorption  $\alpha_w = 0.70$
- Thermal conductivity 3.08 [W / (mK)]
- Thermal efficiency 85%
- System thickness 50mm / 30mm
- Smooth seamless surfaces
- Extensive range of colours (NCS / RAL)

#### Suitable for processing:

- Horizontal, sloped or vertical surfaces
- Seamless, straight surfaces (size depends on the substrate)
- Simply concave curved with radius from  $\emptyset > 500\text{cm}$

## Requirements and installation conditions for the substrate:

For the adhesion of BASWAphon Core systems, the substrate must fulfil the following requirements:

1. Must be mineral, solid (concrete)
2. Must comply with the required final form
3. Must be stable (no formation of cracks)
4. Adhesive strength  $> 0.35 \text{ kN/m}^2$  (approx.  $35 \text{ kg/m}^2$ )
5. Must be airtight
6. Prevention of dew point must be guaranteed
7. The concrete overlay of the TABS lines must amount to min. 60mm

## Processing conditions:

BASWAphon Core systems can only be processed by companies that have been trained by BASWA acoustic AG and have a BASWAphon Core certificate. This also applies to the delivery of our products BASWA acoustic AG only supplies to certified companies. Our BASWA processing guidelines also apply.

## 2 System profile

- Multiple coat system
- Grain size of top coating 0.3/0.5/0.7mm (Top, Fine, Base)
- Standard colour ~ NCS S 0500-N
- Finish quality of surface maximum  $< Q3$

## 3 Weight of the system

From lower edge of the substrate:

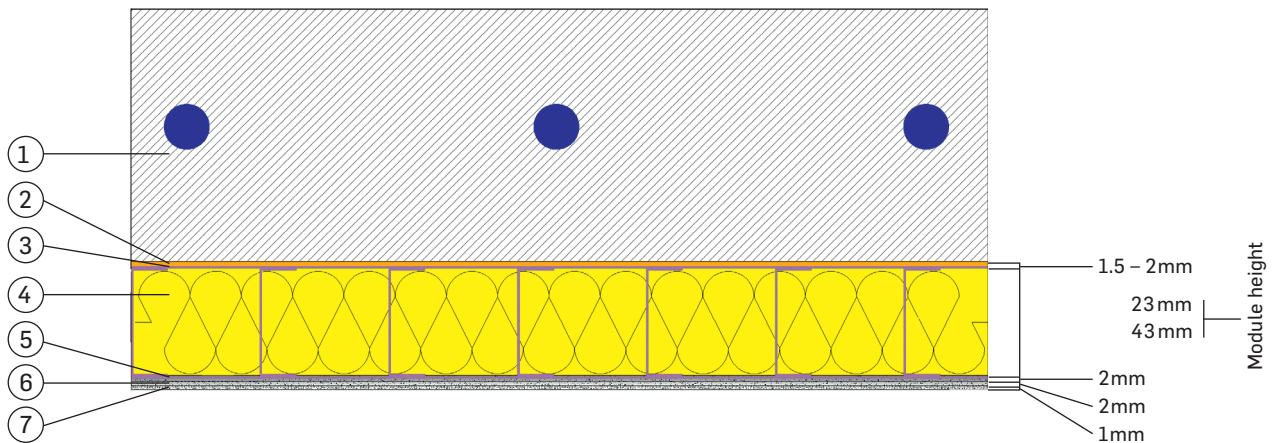
System thickness 30mm approx.  $140 \text{ N/m}^2$  ( $14 \text{ kg/m}^2$ )

System thickness 50mm approx.  $180 \text{ N/m}^2$  ( $18 \text{ kg/m}^2$ )

### Note:

Because of the different workmanship, the weights may differ by  $\pm 15 \text{ N/m}^2$  ( $1.5 \text{ kg/m}^2$ ).

## 4 System construction

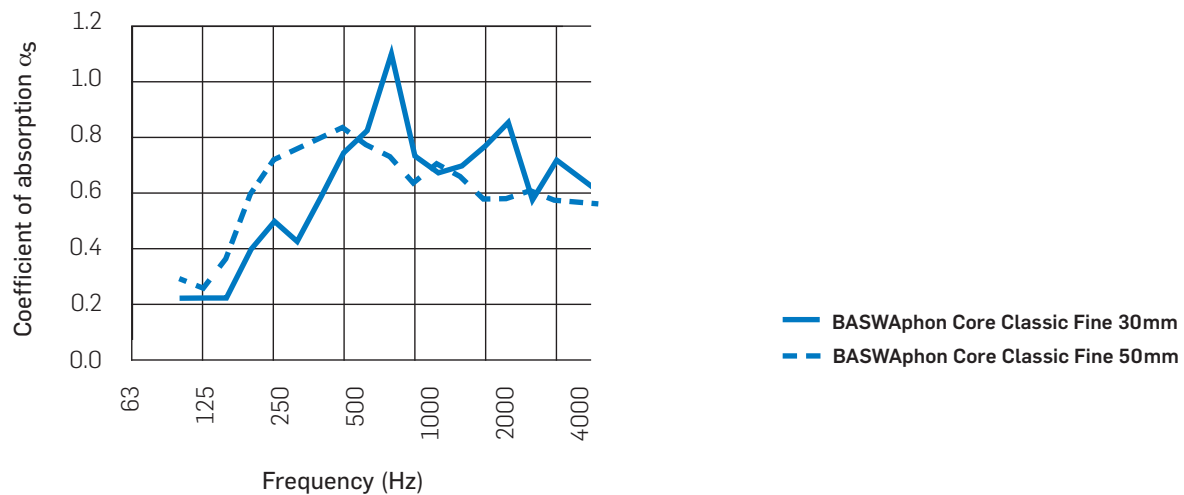


1. Thermally activated concrete surface 2. Mapel Keraquick 3. Aluminium U-profile 1mm of the BASWAphon Core panel 45/25/1mm thickness 4. Fibreglass 5. BASWAphon filling layer 6. BASWAphon cover laying 7. BASWAphon top coating

## 5 Measured values of the system

### BASWAphon Core Classic Fine

30/50mm on solid ceilings  $\alpha_w = 0.70$

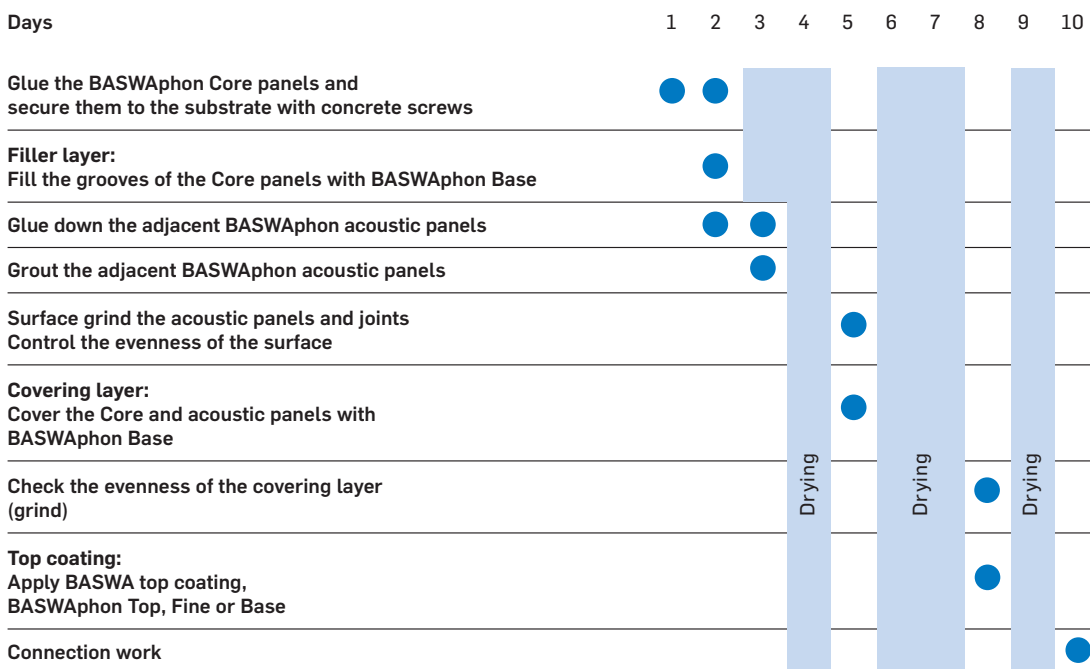


Coefficient of sound absorption  $\alpha_s$  according to ISO standard EN ISO 354:2003

## 6 Installation time

The installation time given is based on a working group of three to four people and a ceiling size of 40 to 60 m<sup>2</sup> aus. It is absolutely necessary to have a spray machine. The drying times of the BASWAphon Core coating composition relate to the atmospheric conditions of the room: 20° C room temperature / 50% relative humidity. Allow each processing step to dry thoroughly, material humidity < 10%.

### BASWAphon Core



## 7 Surface protection / Cleaning / Repairs

See BASWA documentation [www.baswa.com](http://www.baswa.com)

## 8 Legal notice

The information provided above, in particular the suggestions for the processing and use of our products, are based on our current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this notice, or from any other advice offered, unless we are demonstrably guilty of wilful misconduct or gross negligence. In this instance the user has to prove that he has informed BASWA in writing of all the necessary information promptly and in full as required by BASWA for a proper and thorough evaluation. The user of the product must test its suitability for the intended application and purpose. We reserve the right to change the properties of this product. The proprietary rights of third parties must be observed. Our current terms of sale and delivery apply. The most recent issue of the System Data Sheet respectively applies and is available from us on request.

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