

S.A.C. Silent Yellow-Line Documentation



S.A.C. Silent AG

Alti Ruedelfingerstrass 28
CH-8460 Marthalen

Tel. +41 41 448 40 00
Fax +41 41 448 40 09

info@sac-silent.com
www.sac-silent.com

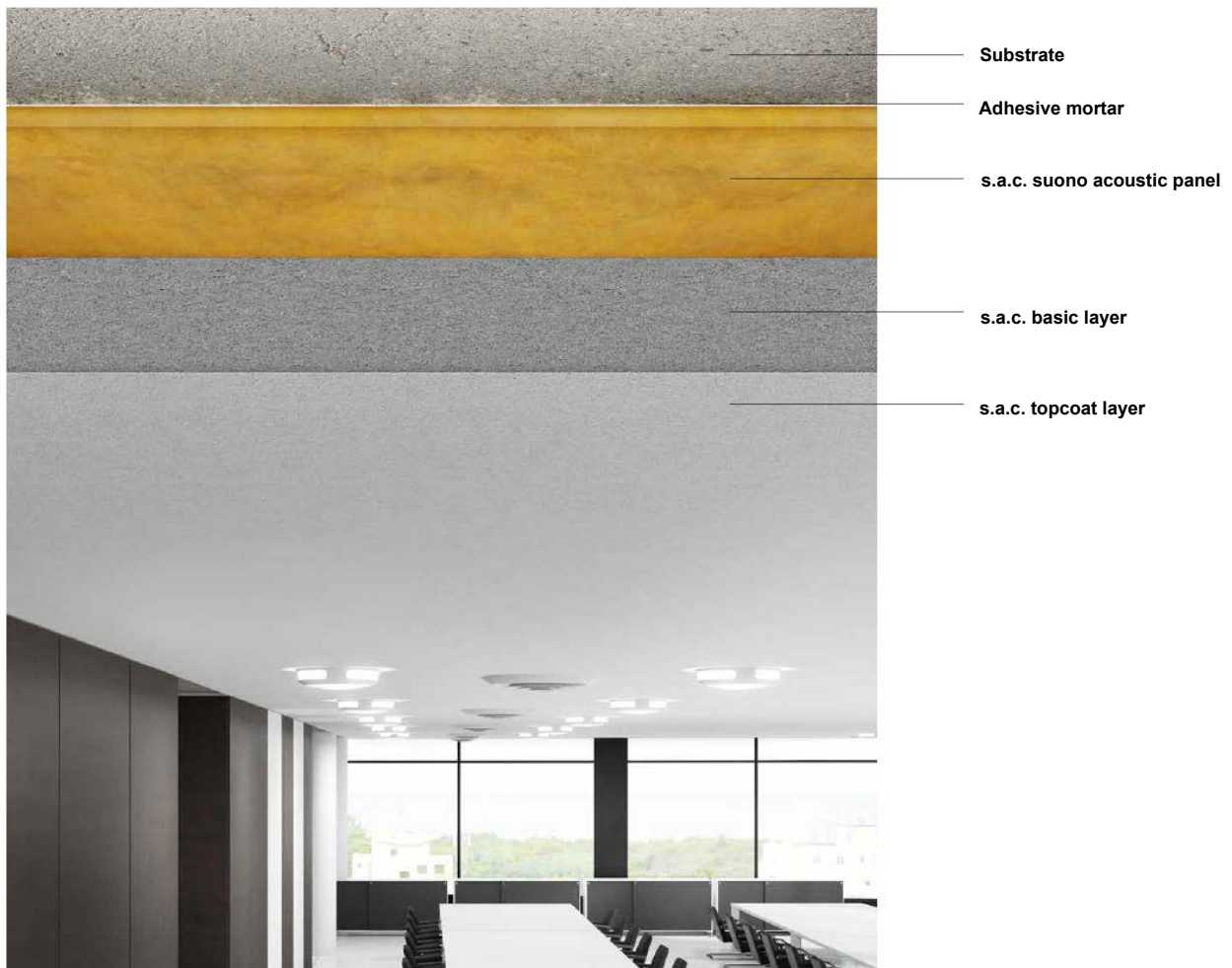


S.A.C. Silent - Yellow Line jointless acoustic system

The s.a.c. silent acoustic system permanently combines acoustic properties with aesthetic surface elegance: viable solutions in the form of smooth, jointless homogenous surfaces. Today, room acoustics no longer just have to meet very high demands in concert and theatre halls as well as auditoriums. More and more frequently, acoustic subjects are in focus with new buildings and conversion of schools, restaurants, banks, industrial and office buildings as well as private residential houses.

Basis components of the jointless acoustic system are the specially structured acoustic panels of non-pre-coated glass wool with its unique acoustic properties. The panels are easy to cut, whereby the incurred offcuts show a very good cost relationship in comparison to the competition. In the case of concrete or drywall construction, the panels can be glued quite easily to the prepared subsurface. Following this, two acoustically effective coats are applied to the panels, the base coat and the topcoat.

Structure Yellow-Line



Installation heights

Thickness acoustic panel	Substrate compensation if necessary approx.	Adhesive mortar	Basic	Topcoat	Installation heights complete approx.
22 mm	0 - 5 mm	3 mm	3 mm	2 mm	30 bis 35 mm
32 mm	0 - 5 mm	3 mm	3 mm	2 mm	40 bis 45 mm
42 mm	0 - 5 mm	3 mm	3 mm	2 mm	50 bis 55 mm
62 mm	0 - 5 mm	3 mm	3 mm	2 mm	70 bis 75 mm

In the case of unevenness greater than +/- 2.0 mm a substrate compensation must be done.

System weights

Thickness Acoustic panel	Acoustic panel [kg/m ²]	Panels bonding [kg/m ²]	Basic [kg/m ²]	Topcoat [kg/m ²]	Weights [kg/m ²]
22 mm	1.8	4	2	1.5	9.3
32 mm	2.7	4	2	1.5	10.2
42 mm	3.5	4	2	1.5	11.0
62 mm	5.1	4	2	1.5	15.1

Specifications in freshly installed state (wet weights). The surface weights of s.a.c. silent must be taken into consideration when calculating the substructure of suspended plasterboard and aquapanel ceilings.

Fire behaviour

According to standard SN EN 13501-1 the jointless acoustic system corresponds to building material class A2-s1, d0. This means that the material is non-flammable.

Health and safety

The s.a.c. silent jointless acoustic system with finest coating has the LEED credit EQ 4.6 confirmation. This means that the system is suitable for use in schools and other buildings with regard to VOC substances and emissions.

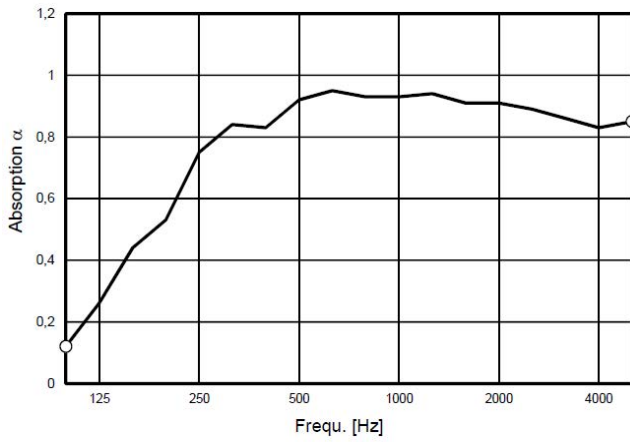
Coloured acoustic ceilings

S.A.C. silent ceilings are standard natural white, similar to NCS S 0500-N, however the topcoat can be coloured in various pastel shades. More intense colour shades are possible upon enquiry.



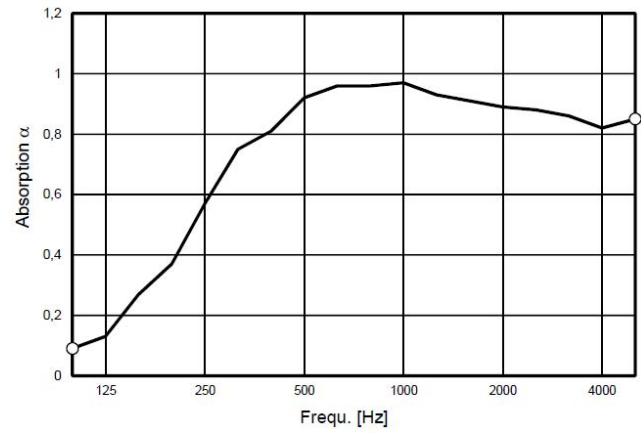
Sound absorption coefficient

Acoustic system with 42mm panels
direct on concrete



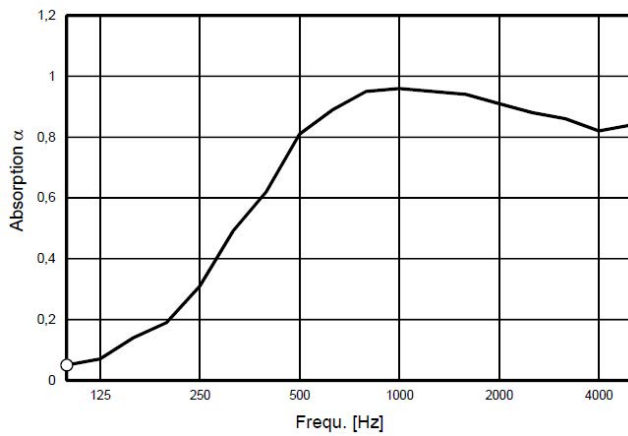
- Noise Reduction Coefficient $a_w = 0.90$
- Sound absorber class = A

Acoustic system with 32mm panels
direct on concrete



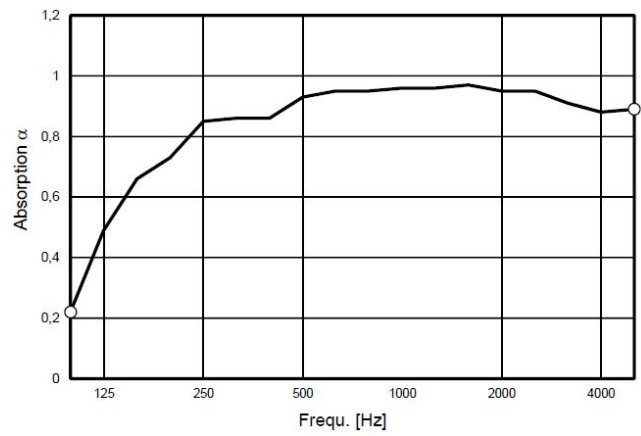
- Noise Reduction Coefficient $a_w = 0.85$
- Sound absorber class = B

Acoustic system with 22mm panels
direct on concrete



- Noise Reduction Coefficient $a_w = 0.65$
- Sound absorber class = C

Acoustic system with 62mm panels
direct on concrete



- Noise Reduction Coefficient $a_w = 0.95$
- Sound absorber class = A

The measured values are based on laboratory measurements, which may differ depending on the processing and object conditions. The original certificates can be obtained from the S.A.C. Silent AG be required.