

THE ENVIRONMENT LOVES VISIBLE® - PRODUCT INFORMATION SHEET

**1st Scandinavian, Carbon-Neutral VISIBLE® Acoustic
Spraying System Respects The Environment**

The Finnish government will act in a way that makes Finland carbon-neutral in 2035 and carbon-negative quickly thereafter. Finland aims to build the EU's long-term climate action so that the EU achieves carbon neutrality before 2050. Carbon-neutral, Scandinavian VISIBLE® acoustics are strongly involved in Finland's and the EU's joint climate talks.

The carbon-neutral VISIBLE® acoustic spraying is a combination of recycled paper, wood adhesive, water and professional installation work. The tubular structure of the cellulosic fibre enables effective reverberation absorption.

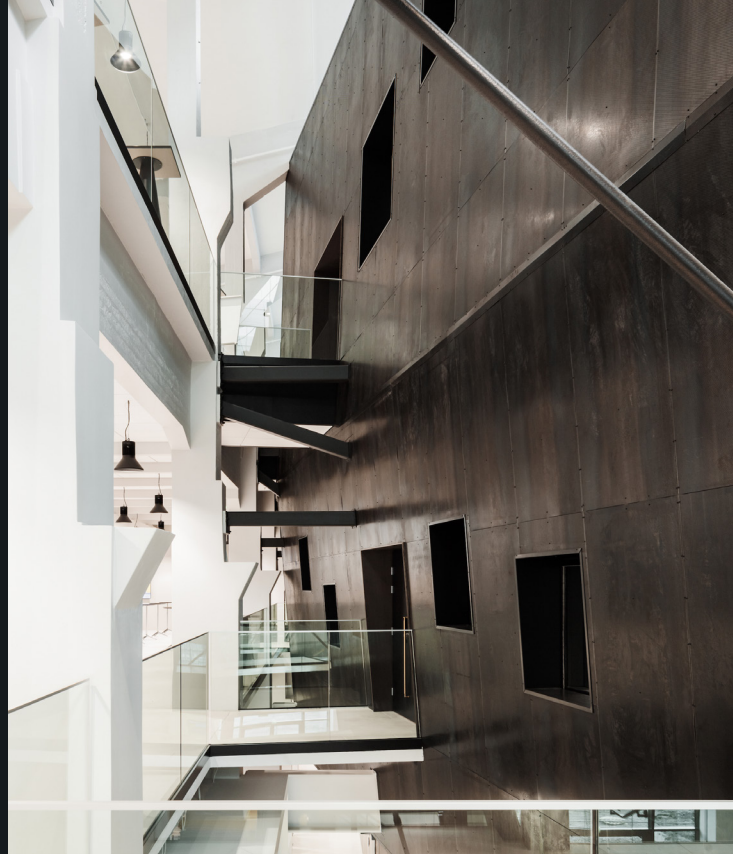
VISIBLE® is based on recycled paper. Acoustic spraying is installed directly on concrete or plasterboard. The layer thickness can be selected from 5 ... 40 mm depending on the desired damping. Layer thicknesses of more than 40 mm can also be installed.

VISIBLE® acoustic spraying achieves a timeless, simplified and industrial look. Seamless VISIBLE® acoustic spraying is easy to design because only layer thickness and colour are required for specification. VISIBLE® spraying is fast and cost effective.

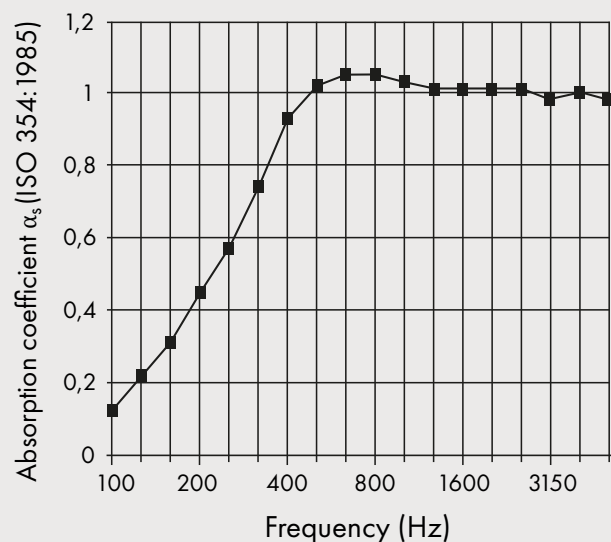


Authorized installers are also responsible for the quality of the installation work and the warranty. Authorized installers have undergone acoustic spraying training and have been certified for their work.

VISIBLE® is the result of 20 years of experience in various acoustic coatings and sprays at hundreds of sites.



Determination of Sound Absorption and Classification



Weighted
absorption coefficient, α_w : 0,9

Sound absorption class: A

Absorption classes: A, B, C, D, E
and no classification.

TECHNICAL FEATURES

For VISIBLE® acoustic spraying, the acoustic classification is selected according to the layer thickness. For example, 35 mm acoustic spraying provides Class A absorption.

VISIBLE® acoustic spray 35 mm
(acoustic class A).

VISIBLE® acoustic spray 25 mm
(acoustic class C).

Fire class B - s1, d0.

VISIBLE® acoustic spray is M1 indoor air certified.

The material is breathable.

Environmental Product Declaration (EPD), EN
15804:2012+A1:2014.

EPDs help building contractors, constructors and planners to better understand the environmental issues related to construction products and materials. The environmental impacts of a product during its life cycle have become relevant information in order to assess the environmental performance of a building or other construction works. EPDs according to the European standard EN 15804:2012+A1:2014 are voluntary, transparent and well established way to present fundamental and verified environmental information based on life cycle assessment about the environmental impacts of a product or product group. *) For more information see the last page!

REFERENCES

Over the years, hundreds of thousands of square meters of acoustic surfaces have been made in Finland, Sweden and Saudi Arabia, for example.

- Torsgatan 26, Stockholm, Sweden, 5000 m².
- Kiasma, Museum of Modern Arts, Helsinki, Finland, 1500 m².
- Metsä / Skogen, Mannerheimintie 2, Helsinki, Finland, 200 m².

- Olympic Stadium, Helsinki, Finland, 4000 m².
- West-Metro (Länsi-Metro) Stations in Lauttasaari, Koivusaari, Niittykumpu, Matinkylä and Metro depot in Saunalahti, Espoo-Helsinki, Finland, 5000 m².
- (ECHA) European Chemicals Agency, Helsinki, Finland, 1500 m².

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*) Environmental Product Declaration (EPD), EN 15804:2012+A1:2014:

The core PCR:

- defines the parameters to be declared and the way in which they are collated and reported, - describes which stages of a product's life cycle are considered in the EPD and which processes are to be included in the life cycle stages,
- defines rules for the development of scenarios,
- includes the rules for calculating the Life Cycle Inventory and the Life Cycle Impact Assessment underlying the EPD, including the specification of the data quality to be applied,
- includes the rules for reporting predetermined, environmental and health information, that is not covered by LCA for a product, construction process and construction service where necessary,
- defines the conditions under which construction products can be compared based on the information provided by EPD. For the EPD of construction services the same rules and requirements apply as for the EPD of construction products.

About the testing company VTT:

VTT is one of the leading research and technology organisations in Europe. Our research and innovation services give our partners, both private and public, all over the world a competitive edge. We pave the way for the future by developing new smart technologies, profitable solutions and innovation services. We create technology for business – for the benefit of society.
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