SYSTEXX ACTIVE ACOUSTHERM – WALLCOVERING FOR A PLEASANT ROOM ATMOSPHERE

REDUCES NOISE, SAVES ENERGY



SYSTEXX by Vitrulan

INNOVATIVE GLASS FABRICS AND FLEECES FOR WALLS AND CEILINGS

HUMAN COMFORT

PLEASANTLY WARM AND QUIET

Whether or not we feel comfortable in a particular room or situation depends on a number of different factors. Temperature and noise are particularly important. We usually find excessive heat, cold and noise unpleasant and disturbing. **A balanced indoor climate and optimum noise levels have a positive impact on our performance and on our ability to concentrate.** Of course, what we regard as a comfortable temperature varies from one person to another. In general, however, the less we move, the higher the temperature needs to be for us to feel comfortable. So, if we want to spend the evening on the sofa after work, being able to heat the living room quickly is a big advantage.



WALL COVERING IN BACKGROUND: SYSTEXX ACTIVE ACOUSTHERM 904

SYSTEXX AcousTherm reduces reverberation and helps rooms warm up faster – creating a pleasant atmosphere in homes, offices, restaurants, hotels and schools.



SOUND ABSORPTION: α_w UP TO 0.25 (H) AND α_p UP TO 0.7

A QUIET ATMOSPHERE

Coated or uncoated, SYSTEXX Active AcousTherm achieves its effect through trapped air, which keeps heat inside the room and reduces reverberation. This brings about a noticeable improvement in indoor noise levels: thanks to its sound-absorbing properties, Active AcousTherm meets the requirements for sound absorption class E.

Powerful performance from a 3 mm fabric.

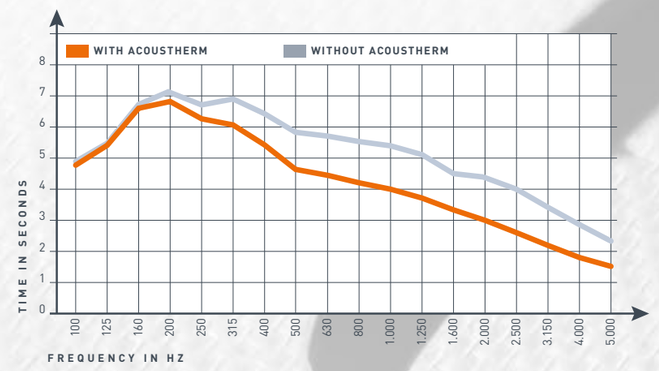
IMPRESSIVE!

SYSTEXX CERTIFIED QUALITY

Sound absorption up to α_w 0.25 (H) and practical sound absorption α_p up to 0.7.

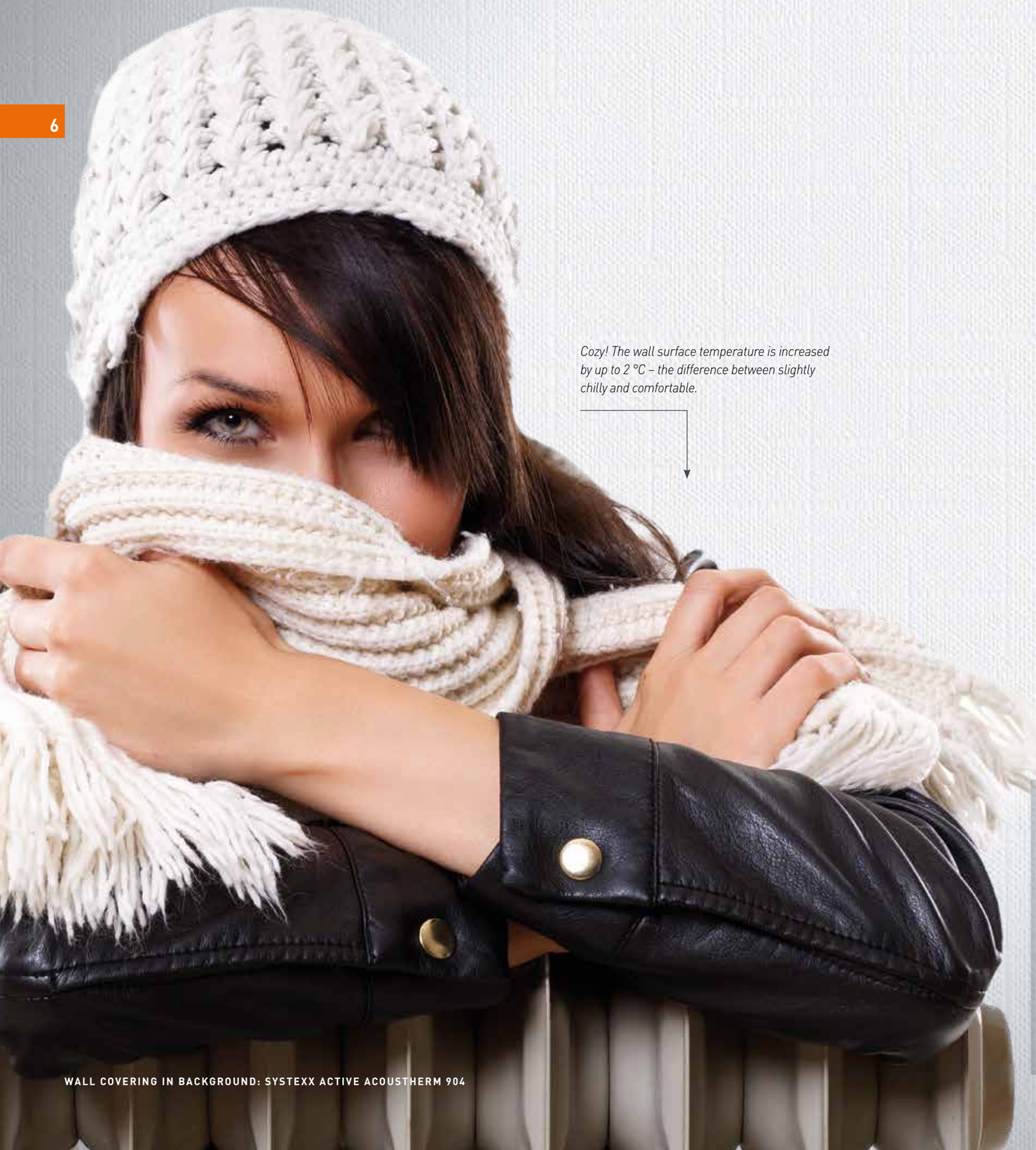
Music to our ears! An independent institute tested SYSTEXX Active AcousTherm in the reverberation room. It achieved sound absorption level α_w up to 0.25 (H) and practical sound absorption coefficient up to 0.7, according to DIN EN ISO 354.

Reducing reverberation with SYSTEXX Active AcousTherm



Assessment of sound absorption in accordance with DIN EN ISO 11 654 "Sound absorbers for use in buildings"

WALL COVERING IN BACKGROUND: SYSTEXX ACTIVE ACOUSTHERM 133



WALL COVERING IN BACKGROUND: SYSTEXX ACTIVE ACOUSTHERM 904

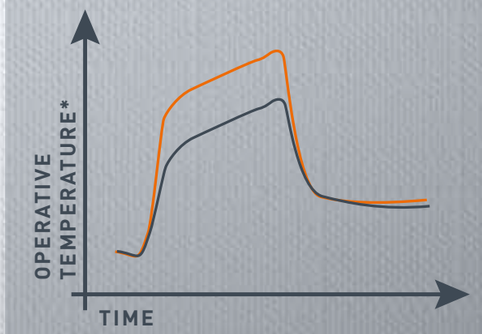
Cozy! The wall surface temperature is increased by up to 2 °C – the difference between slightly chilly and comfortable.

INCREASING THE WALL SURFACE TEMPERATURE

THE WALL COVERING THAT SAVES ENERGY

In restaurants, hotels, schools, offices, and homes, some rooms are often not used as much as others. If they warm up quickly, this not only saves energy, but people feel comfortable faster. Walls that are only plastered or covered with ordinary wallpaper let heat out and it takes a long time to warm the walls and the room. **SYSTEXX Active AcousTherm reduces heat loss through walls by 10%** and enables the room to reach a comfortable temperature **up to four times faster**. Thus, the desired cozy warmth is achieved much more quickly, resulting in a **relative saving of 2 °C**. The wall covering does not interfere with natural heat circulation or change the dew point.

Comparison of room heating-up phase



When the heating is switched on in the room with AcousTherm, the temperature rises significantly more quickly and reaches the desired temperature sooner than the reference room without AcousTherm.

**Average of the mean radiant temperature and ambient air temperatures*

HARDWEARING AND BREATHABLE

STRONG AND BEAUTIFUL

Effective protection in challenging situations – **SYSTEXX Active AcousTherm** bridges cracks and provides long-term protection against new damage. At the same time, its sd value of just 0.03 m makes it extremely water vapor permeable, so they can breathe easily. And when it comes to color, the rainbow is the limit: the wall covering can be overpainted with standard emulsion paint without losing any of its acoustic or thermal properties.

SYSTEXX Active AcousTherm is particularly suitable for use in environments where noise needs to be kept to a minimum. The surface is very hardwearing and protects walls from damage caused by knocks and scrapes.

Efficient preparation – SYSTEXX Active AcousTherm comes with integrated glass fabric. No need to paper over it. It can be hung like conventional glass fiber wall coverings.

STRONG!

BRIDGES CRACKS

HARDWEARING SURFACE

VERSATILE!

CREATIVE PAINT APPLICATIONS



WALL COVERING IN BACKGROUND: SYSTEXX ACTIVE ACOUSTHERM 133

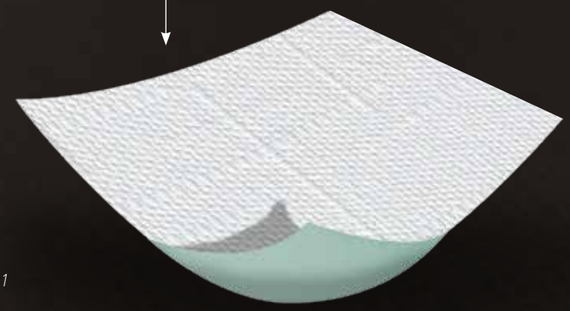


FLAMMABILITY RATING B-s1,d0

UNRIVALED SAFETY

Stay cool in an emergency with **SYSTEXX Active AcousTherm**. Thanks to its excellent performance and treatment, **SYSTEXX Active AcousTherm** is certified as flame resistant. Its benefits are particularly evident in buildings and areas where fire protection is an important consideration.

The wall fabric that can stand the heat. It is flame resistant, generates almost no smoke in the event of a fire and does not drip.

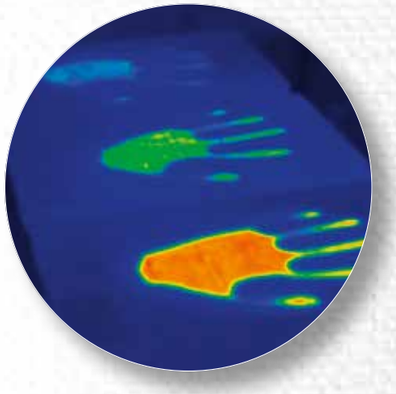


UNIQUE!

SYSTEXX CERTIFIED QUALITY

Flammability rating B - s1, d0 nach DIN EN 13501-1

WALL COVERING IN BACKGROUND: SYSTEXX ACTIVE ACOUSTHERM 904



See the scientifically proven effectiveness of SYSTEXX Active AcousTherm for yourself. Scan the QR code to watch the video evidence from ZAE Bayern.

Wall surface temperature:
20 °C with AcousTherm

Wall surface temperature:
18 °C without AcousTherm

AT A GLANCE

TECHNICAL HIGHLIGHTS

Energy ...

- Thermal conduction $\lambda_{(10)}$ at 10 °C (DIN EN 12667): 0.040 [W/(m*K)]
- Heat resistance R (DIN EN 12667): 0.06 [m^2*K/W]
- No evidence of condensation
- sd value: 0.03 m
- Improved U-value with **AcousTherm**: 10% less heat loss through walls

... Acoustics ...

- Sound absorption unpainted according to DIN EN ISO 354:
  AcousTherm 133 PG and 904 RW, unpainted: α_w 0.25 (H)
  Glassfleece, unpainted: α_w 0.20 (H)
- Practical sound absorption coefficient according to DIN EN ISO 354:
  AcousTherm 133 PG and 904 RW, unpainted: α_p up to 0.7
  Glassfleece, unpainted: α_p up to 0.6
- Sound absorber class E

... and more

- Flammability rating (DIN EN 13501-1 (2010)): B - s1, d0
- Classe d'émission: A+
- CE conformity mark
- Roll width: approx. 0.96 m
- Fabric thickness: approx. 3.0 mm

Sound absorption α_w 0.25 / 0.20 (H)

Flammability rating B - s1, d0 nach DIN EN 13501-1

Bridges cracks

Hardwearing surface

A+ for zero emissions

Creative paint applications

DETAILED INFORMATION

www.systexx.com



WALL COVERING IN BACKGROUND: SYSTEXX ACTIVE ACOUSTHERM 904

NATURAL HIGH-QUALITY RAW MATERIALS

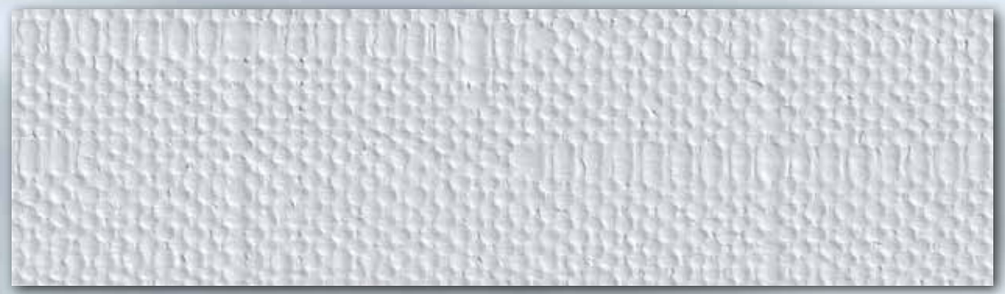
ENVIRONMENTAL QUALITY

Molten glass is transformed into super-fine glass fibers – the base material for glass fabric. Natural, high-quality materials make SYSTEXX wall and ceiling coverings environmentally friendly and non-toxic.

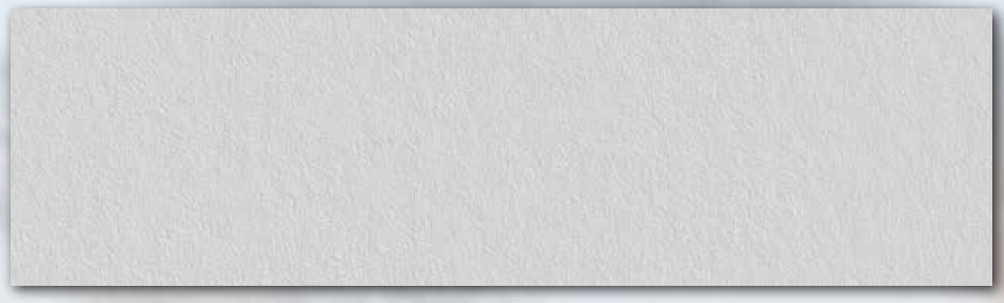
SYSTEXX Active AcousTherm carries an A+ emissions rating.



Active AcousTherm 133



Active AcousTherm 904 RW



Active AcousTherm Glassfleece

CERTIFIED EXCELLENCE! SYSTEXX CERTIFIED QUALITY

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

A+ for zero emissions

The Vitrulan Group has production facilities at two locations in Germany: Marktschorgast (Kulmbach) and Haselbach (Sonneberg) as well as one in Mikkeli, Finland.

Wall coverings made of glass fabrics and glass fleeces, modern infrared surface heating based on glass fabrics, and technical textiles made of glass, synthetic, and carbon fibers make up the core products of the Vitrulan Group.

Vitrulan produces extremely robust, hard-wearing, sustainable, and versatile wall coverings. A wide range of traditional and modern designs are complemented by innovative wall coverings with additional functions. Sustainable interior design and premium product quality together are our number one priority.

THIRD-PARTY VERIFIED EPD ISO 14025 and EN 15804 Institut Bauen und Umwelt e.V.

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