


STRETCH 300 FR

'STRETCH 300 FR' is a flame-retardant light/acoustic fabric with a smooth, textile surface.

The special feature of this material is its elasticity. Usually stretch materials are knitted or non-woven, in which case light can appear through the stitch holes. STRETCH 300 FR is different; this material is woven but still flexible. Also an advantage of this fabric is it produces a diffuse surface. You cannot see 'stars' through the material when you put light behind the fabric. The handle is soft, yet crease resistant and very easy to fabricate.

 **Acoustic:** The fabric is able to improve the acoustics in a room. In a lot of new buildings there is sound-reflection due to the use of glass, cement and hard floors. The result is an unwanted resonance, which can affect the clarity of any discussions in the room.

'STRETCH 300' acts like a sponge to absorb sound waves. Reflections are prevented, so there will be no echoes. Other sound waves cannot overlay or constrict.

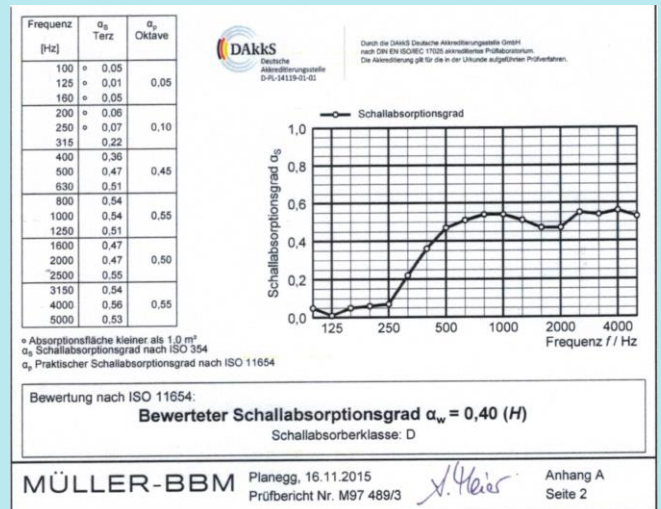
An additional absorber-foam or fleece is not needed – resulting in significant cost-savings. Thinner frames can be used, providing further

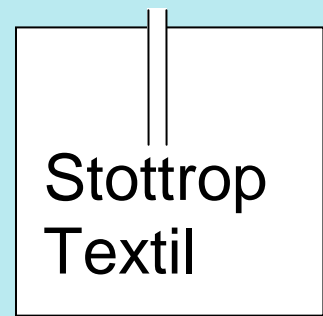
The sound absorption coefficient has a level of: **$\alpha_w = 0,40$ (MH)**

which is considered good for single layer fabrics.

More importantly, absorption reaches a maximum **up to 0,55** for the relevant range for **human speech** (500 – 2000 Hz)

For use in public buildings with a high frequency of visitors this material reaches The appropriate requirements of **flame-retardancy** and is certificated according to **EN 13501-1, B-s1, d0**.





'STRETCH 300 FR' can be used for several applications:

- **Back-lighting:**
Whichever type of light, whether from natural, fluorescent lamps or LED sources, and whether used in light boxes, on bowed frames or only tensed, 'STRETCH 300 FR' acts as an effective a diffusor, providing homogeneous light distribution without 'STAR' effects.
- **Reflected light:**
The pure white surface is bright and reflection-free, and can be used for illumination or as a projection screen.
- **Light ceiling:**
Longer spans and 3-dimensional areas are made possible due to this material's high tensile strength.
- **Printing media:**
When printing pictures, photos or signs the surface is suitable for use with screen print, digital print, UV-print, thermo-sublimation print, direct print and latex print technologies

Do you have questions? Do you need technical support for your application?

Please call us or send us an E-Mail at:

Phone: ++49 (0)2572/9384-0, E-Mail: info@stottrop-textil.de

You can find much more information on our range of flame-retardant and non-combustible materials under: www.stottrop-textil.de