

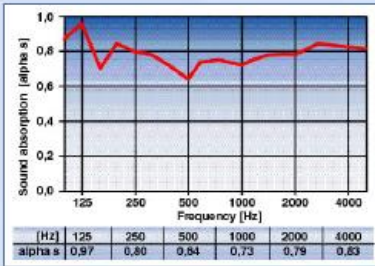


CEILINGSPUS®

# SoundTex® Performance Criteria

**SoundTex Meets all Major International Performance Standards.**

SoundTex has been tested in accordance with the performance criteria prevailing in the United States, Germany, England and China. The results of these tests are demonstrated in the following charts and other accompanying information. The curves in these charts are based on reverberation room measurements per ASTM C423-90a and E795-93, DIN EN 20354 and BS EN 20354. The sound absorption coefficients (alpha-s) within a frequency range of 125 and 4000 Hz vary between 0.6 and 0.8.



## AMERICAN STANDARD

**Specification** – American Society for Testing Materials (ASTM) C423-90a and ASTM E795-93

**Material** – Acoustic ceiling made with aluminum sheet **Open Area** – 20 %

**Hole Size** – .11811" (3 mm) **Cavity** – 15.748" (400 mm) **(NRC\* 0.75)**

**Test Criteria** Test conducted according to ASTM E84 Flame Spread and Smoke Development and achieved Class A Status. SoundTex fulfilled the requirements of the Department of Buildings of the City of New York, according to the New York State Uniform Building Code 1120/15 and is registered under No. MEA290-93-M as an accepted material for interior finish usage. Based on test results, SoundTex was found to have an excellent sound absorption in accordance with ASTM C423-90a and ASTM E795-93.

\*NRC=Noise Reduction Coefficient

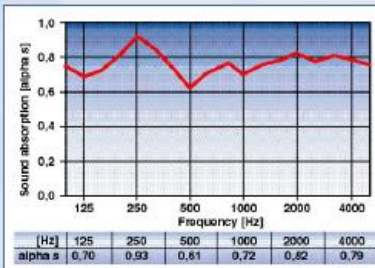
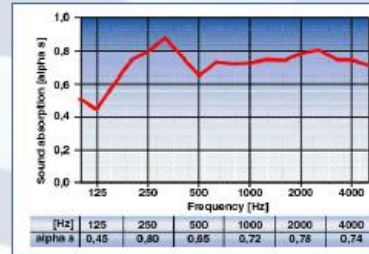
## GERMAN STANDARD

**Specification** – DIN EN 20354

**Material** – Acoustical ceiling made of sheet steel. **Open Area** – 16%

**Hole Size** – .070866" (1.8 mm) **Cavity** – 15.748" (400 mm)

SoundTex satisfied flame retardant requirements as specified in DIN 4102 B1. SoundTex was found to be non combustible when used in combination with galvanized steel according to DIN 4102 A2. Test showed no emission of flue gas when conducted in accordance with DIN 4102 A1. Test showed no airborne fiber or dust. SoundTex exhibited excellent sound absorption according to DIN EN 20354.



## BRITISH STANDARD

**Specification** – BS EN 20354

**Material** – Acoustic ceiling made of sheet steel **Open Area** – 20 %

**Hole Size** – .070866" (1.8 mm) **Cavity** – 15.748" (400 mm)

When tested in accordance with Fire Propagation Test as specified in BS 476 Part 6 in combination with perforated and powder coated ceilings, SoundTex satisfied all requirements without restriction. When tested in accordance with the Test of Surface Spread of Flames, as specified in BS 476 Part 7, in combination with perforated, powder coated metal ceilings, SoundTex satisfied all requirements without restriction and was rated Class 1. When tested in accordance with the requirements of UK Building Regulations 1991, as specified in BS 476, Parts 6 and 7, SoundTex fulfilled all requirements and was given a Class 0 rating. SoundTex was given an Excellent Sound Absorption Rating in accordance with BS EN 20354.

## CHINESE STANDARD

SoundTex has been granted an Excellent Sound Absorption Rating according to Chinese Standard GBJ 75-84.



Reg No. 67034-01  
Freudenberg Technical Nonwovens Division  
Weinheim/Germany