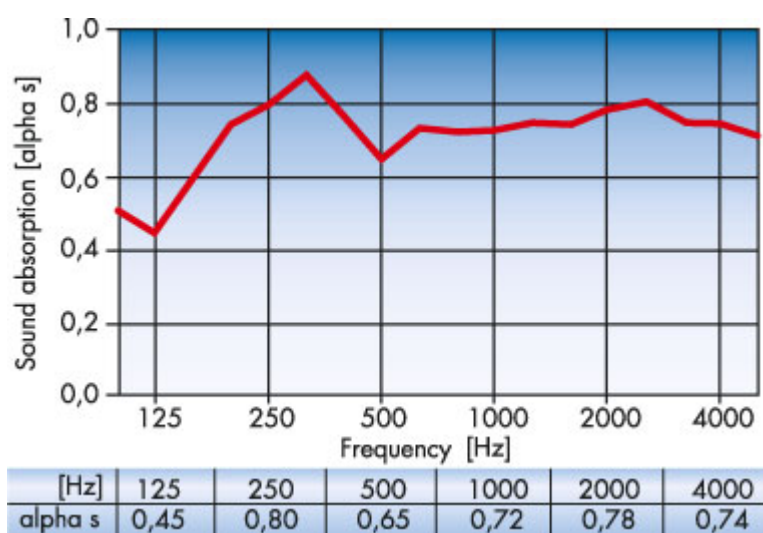


## Test certificates – Quality verified to

- ▶ Deutsche Industrie Norm (DIN) EN (German Standard)
- ▶ British Standard (BS)
- ▶ American Society for Testing Materials (ASTM)
- ▶ Chinese Standard (GBJ)

### DIN EN

- ▶ **SoundTex®** is flame-retardant to DIN 4102 B1 - German Institute for Construction Engineering, Mark of Conformity PA-III 2.1152.
- ▶ **SoundTex®** is non-flammable to DIN 4102 A2 in conjunction with steel sheeting - German Institute for Construction Engineering, Mark of Conformity ZPA-III 4.686.
- ▶ **SoundTex®** has been examined to DIN 4102 A2, Part 1, for the release of carbonization gases, and classified as harmless.
- ▶ **SoundTex®** acoustic nonwovens have outstanding sound absorption properties to DIN EN ISO 354.



### Quality verified to DIN EN ISO 354

Acoustic ceiling made of sheet steel:

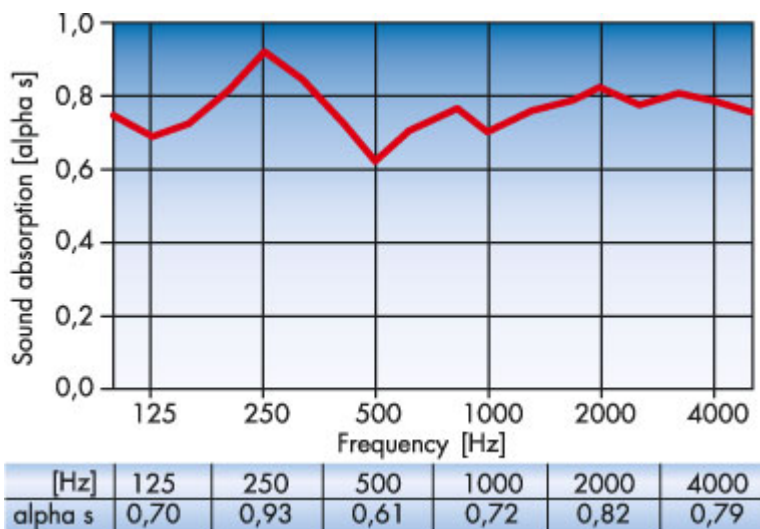
16% open area

2.5 mm hole size

400 mm cavity

## British Standard

- ▶ BS 476: PART 6: 1989 (Fire propagation test): the tests were passed unreservedly, as confirmed in the WARRES Test Report No. 64897 and No. 64898.
- ▶ BS 476: PART 7: 1987 (Classification of surface flame propagation): the combination of **SoundTex®** and a metal ceiling cassette was graded unreservedly in the (best possible) Class 1 as per WARRES Test Report No. 64899 and No. 64900.
- ▶ **SoundTex®** can be classified in Class 0 for the requirements of the UK Building Regulations 1991, having unreservedly passed the tests specified in BS 476 Parts 6 & 7.
- ▶ **SoundTex®** has outstanding sound absorption to BS EN ISO 354, 1993, e.g. 20% open cross section, hole diameter 1.8 mm, ceiling cavity 400 mm (NRC of 0.75).



## Quality verified to British Standard (BS EN ISO 354)

Acoustic ceiling made of sheet steel:

20% open area

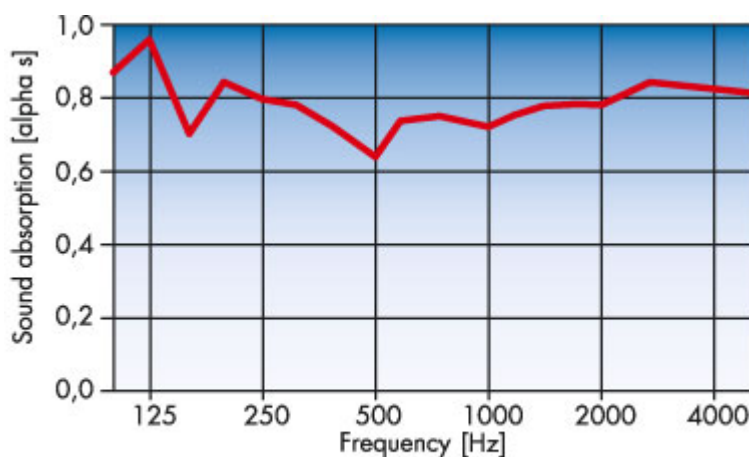
1.8 mm hole size

400 mm cavity (Noise Reduction Coefficient of 0.75).

## American Society for Testing Materials

- ▶ **SoundTex® C 1986 SP** has been tested to ASTM E 84 (the standard testing procedure for the fire behavior of construction material surfaces) by the SOUTHWEST RESEARCH INSTITUTE (SwRI), San Antonio, TX-USA, for flame propagation and smoke formation. On the basis of the results obtained, **SoundTex® C 1986 SP** has been graded as Class A for flame and smoke propagation.
- ▶ **SoundTex®** meets the requirements of New York City's Planning Office under the stipulations of the New York State Uniform Building Code 1120/15.
- ▶ **SoundTex®** has been registered as an approved construction material under No. MEA 290-93-M. The approval criteria include a test for toxicity during combustion.
- ▶ **SoundTex®** has been tested under the UPITT test procedure (the University of Pittsburgh Test Method) at Anderson Laboratories Inc., Dedham, Massachusetts/USA, and classified as non-critical.
- ▶ **SoundTex®**, in conjunction with perforated metal ceiling elements, has been tested as follows against the ASTM C 423-90 a requirements (test procedure for determining sound absorption) and ASTM E 795-93 (test procedure for determining the noise reduction coefficient (NRC) (às)) by the RIVERBANK ACOUSTICAL LABORATORIES of the IIT Research Institute in Geneva, Illinois/USA:

The RAL-A 98-139 sound absorption test with a perforated aluminium plate featuring a hole area proportion of 20% and a hole diameter of 3.0 mm reveals an average noise reduction coefficient (NRC) of 0.75 in the relevant frequency spectrum of 250 - 2000 Hz and a ceiling cavity of 400 mm.



[Hz]	125	250	500	1000	2000	4000
alpha s	0,97	0,80	0,64	0,73	0,79	0,83

### **Quality verified to ASTM C423-90a/E795-93**

(American Society for Testing Materials)

Acoustic ceiling made of aluminium sheet

20% open area

3.0 mm hole size

400 mm cavity (Noise Reduction Coefficient of 0.75).

### **Chinese Standard (GBJ)**

▶ **SoundTex®** has been granted an excellent sound absorption rating according to Chinese Standard GBJ 75-84.