

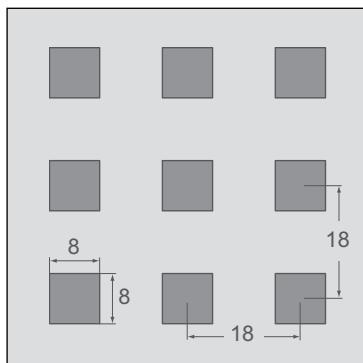
# Acoustic Design Boards

Product Data Sheet 134

Sound Absorption



## Acoustic Design Board 8/18Q (quadrat)



- Sound Absorption Value defined in accordance with DIN EN ISO 354
- Sound Absorption evaluated in accordance with DIN EN ISO 11654

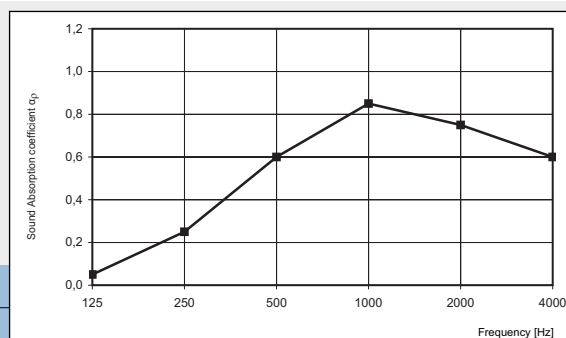
Thickness of the Board:  $d = 12,5 \text{ mm}$   
 Density:  $8,00 \text{ kg/m}^2$   
 Perforated Area:  $19,8 \%$   
 Building Material Classification according DIN 4102: A2, "non combustible"  
 Fire performance according DIN EN 13501: A2-s1, d0

Back of tile laminated with  
**Acoustic fleece AV 2010**

Sound Absorption  $\alpha_w = 0,55 \text{ (M)}$   
 Sound Absorbing Classification **D** (absorbing)

**Ceiling Void: 65 mm**

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient $\alpha_p$	0,05	0,25	0,60	0,85	0,75	0,60

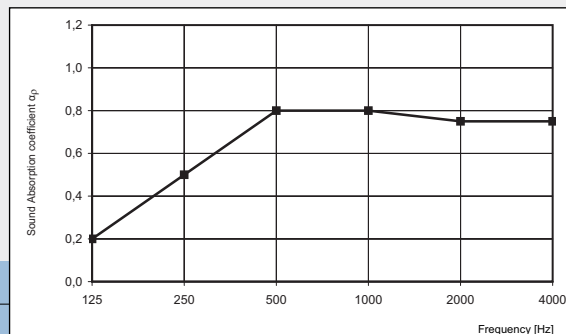


Back of tile laminated with  
**Acoustic fleece AV 2010 + Schallschluckplatte SSP 1, 30 mm**

Sound Absorption  $\alpha_w = 0,75$   
 Sound Absorbing Classification **C** (high absorbing)

**Ceiling Void: 65 mm**

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient $\alpha_p$	0,20	0,50	0,80	0,80	0,75	0,75



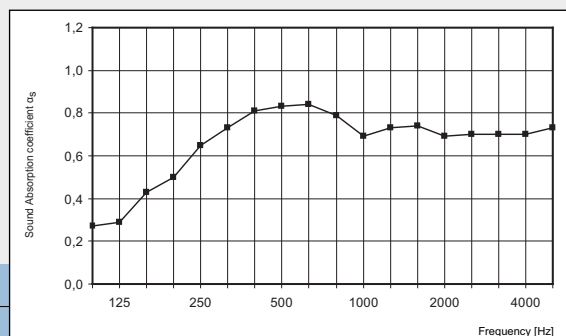
Back of tile laminated with  
**Acoustic fleece AV 2010**

Sound Absorption  $\alpha_w = 0,75$   
 Sound Absorbing Classification **C** (high absorbing)

Single number rating acc. ASTM C 423: SAA = 0,72  
 Classification acc. ASTM E 1264: NRC = 0,70

**Ceiling Void: 200 mm**

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient $\alpha_s$	0,29	0,65	0,83	0,69	0,69	0,70



Back of tile laminated with  
**Acoustic fleece AV 2010 + Glass wool sound protection board SSP 1, 30 mm**

Sound Absorption  $\alpha_w = 0,85$   
 Sound Absorbing Classification **B** (highest absorbing)

Single number rating acc. ASTM C 423: SAA = 0,80  
 Classification acc. ASTM E 1264: NRC = 0,80

**Ceiling Void: 200 mm**

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient $\alpha_s$	0,37	0,73	0,83	0,80	0,84	0,84

