

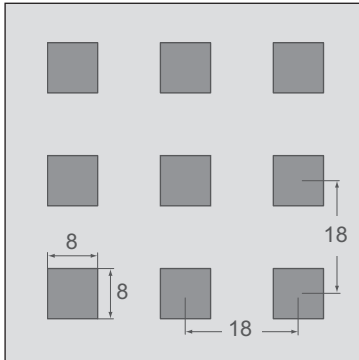
Acoustic Design Boards

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

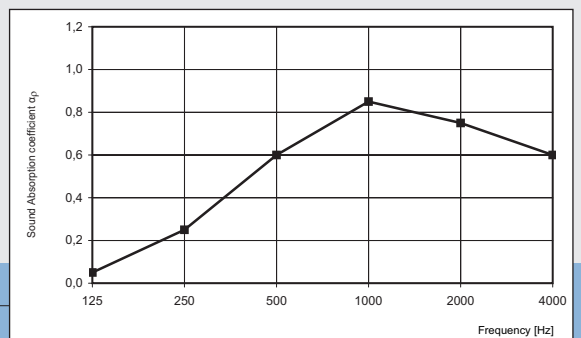
Thickness of the Board: $d = 12,5 \text{ mm}$
 Density: $8,00 \text{ kg/m}^2$
 Perforated Area: $19,8 \%$
 Building Material Classification according DIN 4102: A2, "non combustible"
 Fire performance according DIN EN 13501: A2-s1, d0

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 α_p	0,05	0,25	0,60	0,85	0,75	0,60

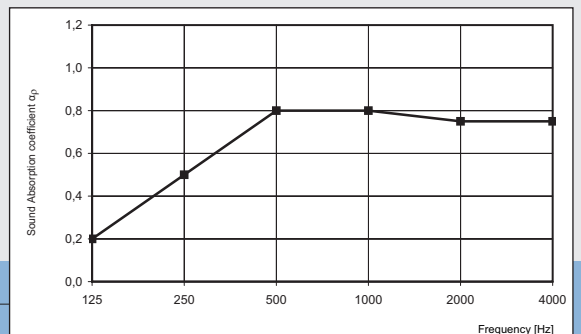


Back of tile laminated with
Acoustic fleece AV 2010 + Schallschluckplatte SSP 1, 30 mm

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 α_p	0,20	0,50	0,80	0,80	0,75	0,75

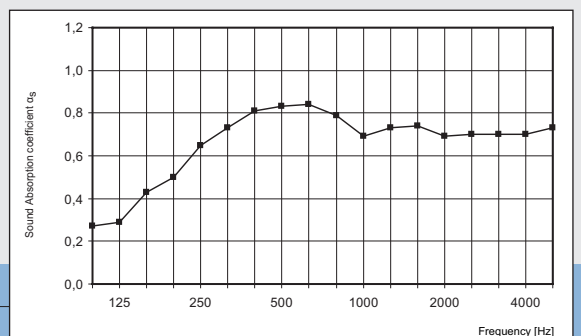


Back of tile laminated with
Acoustic fleece AV 2010

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 α_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 α_s	0,37	0,73	0,83	0,80	0,84	0,84

