

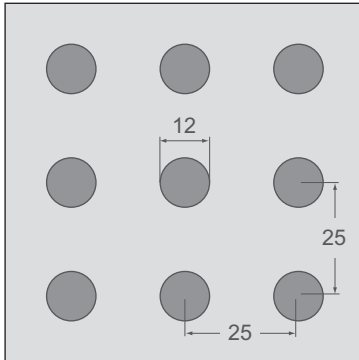
Acoustic Design Boards

Product Date Sheet 126

Sound Absorption



Acoustic Design Board 12/25R (round)



- 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:

$8,20 \text{ kg/m}^2$

Perforated Area:

18,1 %

Building Material Classification according DIN 4102: A2, "non combustible"

Fire performance according DIN EN 13501:

A2-s1, d0

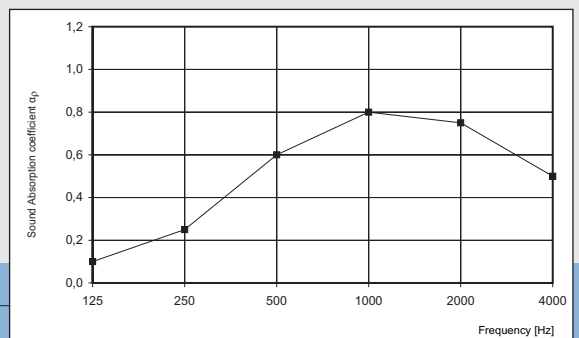
Back of tile laminated with
Acoustic fleece AV 2010

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_s	0,10	0,25	0,60	0,80	0,75	0,50



Back of tile laminated with

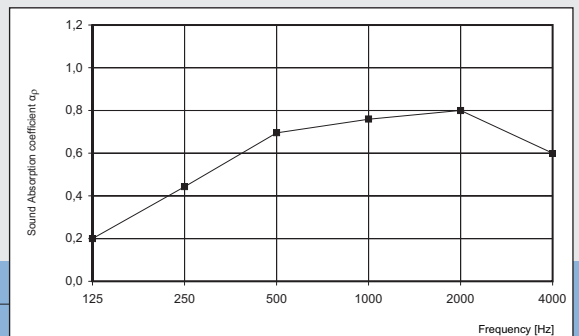
**Acoustic fleece 2010 +
Glass wool sound protection board SSP 1, 30 mm**

Sound Absorption $\alpha_W = 0,70$

Sound Absorbing Classification **C** (high absorbing)

Ceiling Void: 65 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_s	0,20	0,45	0,70	0,75	0,80	0,60



Back of tile laminated with

Acoustic fleece AV 2010

Sound Absorption $\alpha_W = 0,70$

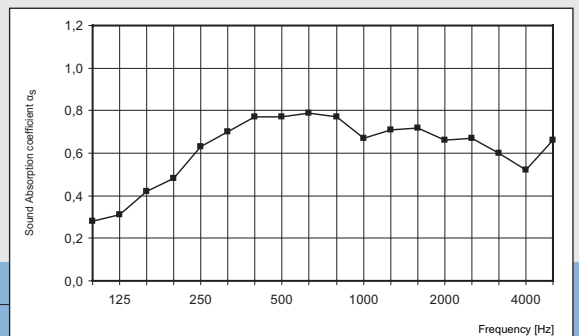
Sound Absorbing Classification **C** (high absorbing)

Single number rating acc. ASTM C 423: SAA = 0,69

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	0,31	0,63	0,77	0,67	0,66	0,52



Back of tile laminated with

**Acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1, 30 mm**

Sound Absorption $\alpha_W = 0,80$

Sound Absorbing Classification **B** (highest absorbing)

Single number rating acc. ASTM C 423: SAA = 0,75

Classification acc. ASTM E 1264: NRC = 0,75

Ceiling Void: 200 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_s	0,37	0,69	0,76	0,75	0,79	0,69

