

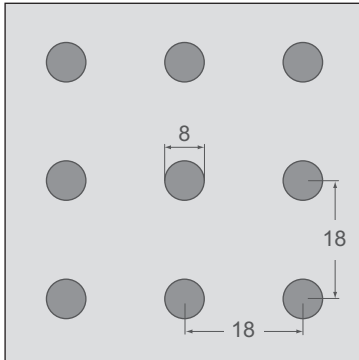
Acoustic Design Boards

Product Data Sheet 122

Sound Absorption



Acoustic Design Board 8/18R (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:

$8,50 \text{ kg/m}^2$

Perforated Area:

15,5 %

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

Fire performance according DIN EN 13501:

A2-s1, d0

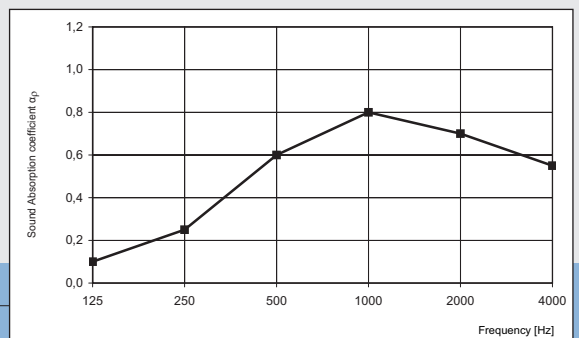
Back of tile laminated with
Acoustic fleece AV 2010

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	0,10	0,25	0,60	0,80	0,70	0,55



Back of tile laminated with
Acoustic fleece AV 2010 +

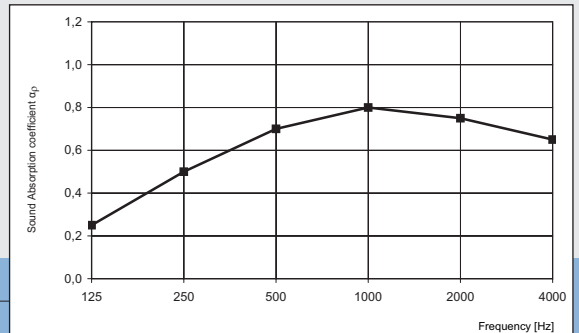
Glass wool sound protection board SSP 1, 30 mm

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	0,25	0,50	0,70	0,80	0,75	0,65



Back of tile laminated with
Acoustic fleece AV 2010

Sound Absorption $\alpha_W = 0,70$

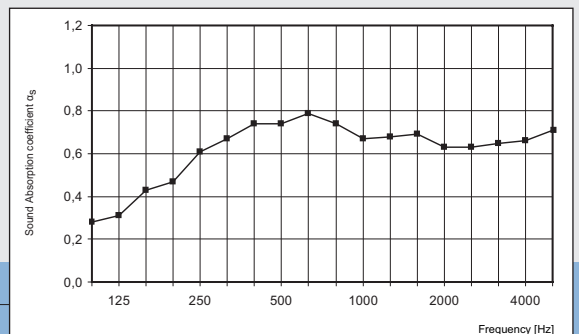
Sound Absorbing Classification **C** (high absorbing)

Single number rating acc. ASTM C 423: SAA = 0,67

Classification acc. ASTM E 1264: NRC = 0,65

Ceiling Void: 200 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_s	0,31	0,61	0,74	0,67	0,63	0,66



Back of tile laminated with
Acoustic fleece AV 2010 +

Glass wool sound protection board SSP 1, 30 mm

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	0,38	0,66	0,74	0,73	0,74	0,75

