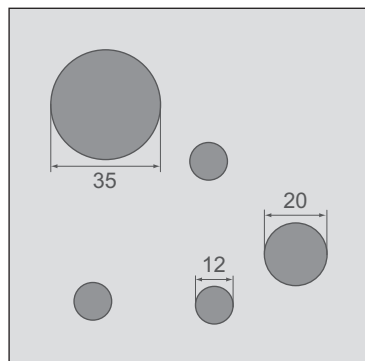


Acoustic Design Boards

Product Data Sheet 140

Sound Absorption

Acoustic Design Board 12/20/35R (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:

$8,90 \text{ kg/m}^2$

Perforated Area:

11,0 %

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

Fire performance according DIN EN 13501:

A2-s1, d0

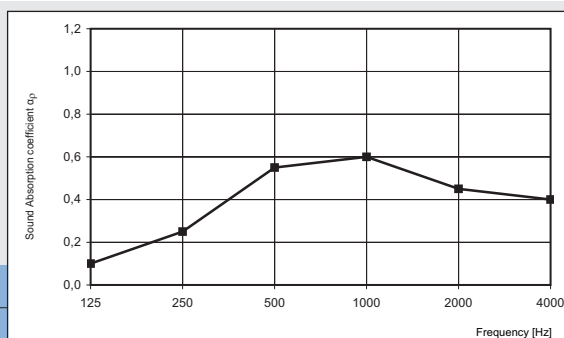
Back of tile laminated with
Akoustic fleece AV 2010

Sound Absorption $\alpha_W = 0,50$

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	0,55	0,60	0,45	0,40



Back of tile laminated with

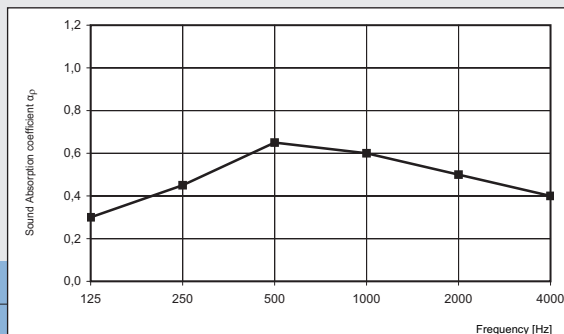
**Akoustic fleece AV 2010 +
Glass wool sound protection board SSP 1, 30 mm**

Sound Absorption $\alpha_W = 0,55$

Sound Absorbing Classification **D** (absorbing)

Ceiling Void: 65 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_p	0,30	0,45	0,65	0,60	0,50	0,40



Back of tile laminated with
Akoustic fleece AV 2010

Sound Absorption $\alpha_W = 0,55$

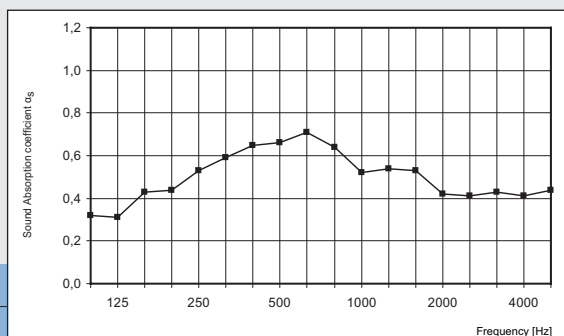
Sound Absorbing Classification **D** (absorbing)

Single number rating acc. ASTM C 423: SAA = 0,55

Classification acc. ASTM E 1264: NRC = 0,55

Ceiling Void: 200 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_s	0,31	0,53	0,66	0,52	0,42	0,41



Back of tile laminated with

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

Sound Absorption $\alpha_W = 0,60$

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

Single number rating acc. ASTM C 423: SAA = 0,58

Classification acc. ASTM E 1264: NRC = 0,55

Ceiling Void: 200 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_s	0,37	0,54	0,63	0,60	0,53	0,50

