

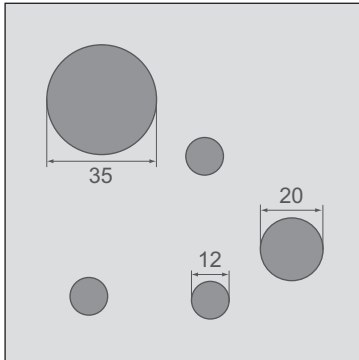
Acoustic Design Boards

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

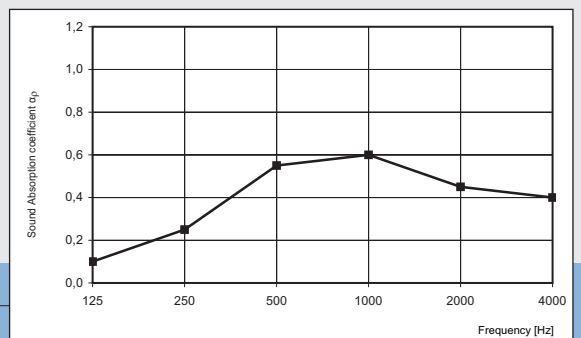
Thickness of the Board: $d = 12,5 \text{ mm}$
 Density: $8,90 \text{ kg/m}^2$
 Perforated Area: $11,0 \%$
 Building Material Classification according DIN 4102: A2, "non combustible"
 Fire performance according DIN EN 13501: A2-s1, d0

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

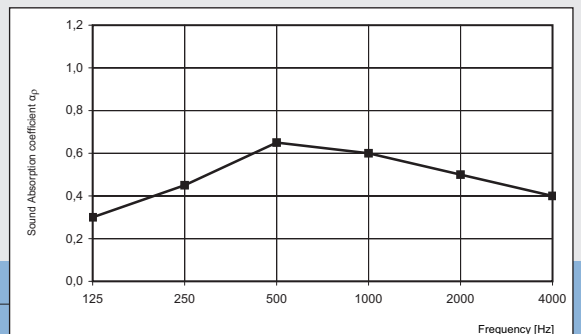


Back of tile laminated with
**Akoustic fleece AV 2010 +
 Glass wool sound protection board SSP 1, 30 mm**

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



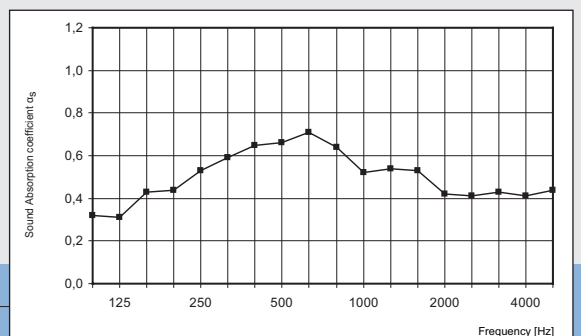
Back of tile laminated with
Akoustic fleece AV 2010

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

