

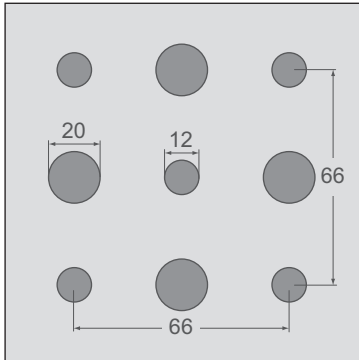
Acoustic Design Boards

Product Data Sheet 132

Sound Absorption



Acoustic Design Board 12/20/66R (round)



- Sound Absorption Value defined in accordance with DIN EN ISO 354
- Sound Absorption evaluated in accordance with DIN EN ISO 11654

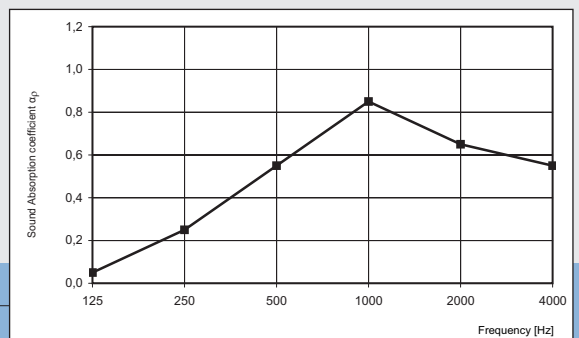
Thickness of the Board: : $d = 12,5 \text{ mm}$
 Density: $8,00 \text{ kg/m}^2$
 Perforated Area: $19,6 \%$
 Building Material Classification according DIN 4102: A2, "non combustible"
 Fire performance according DIN EN 13501: A2-s1, d0

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	0,55	0,85	0,65	0,55

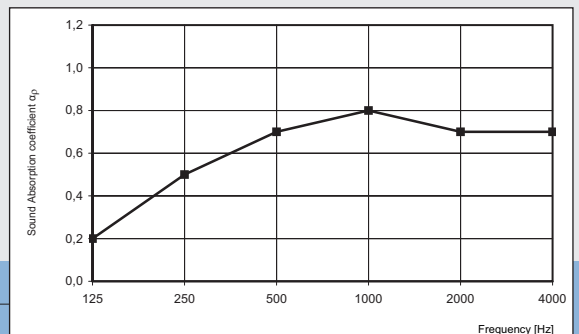


Back of tile laminated with
**Acoustic fleece AV 2010 +
 Glass wool sound protection board SSP 1, 30 mm**

Sound Absorption $\alpha_w = 0,70$
 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	0,70	0,80	0,70	0,70

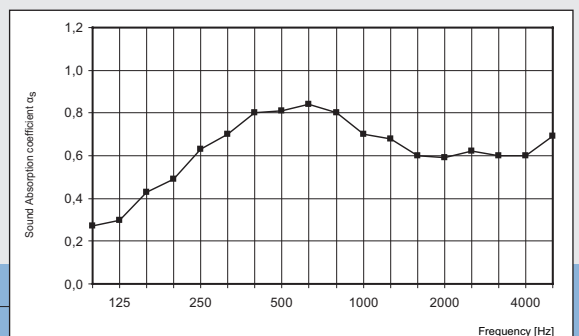


Back of tile laminated with
Acoustic fleece AV 2010
 Sound Absorption $\alpha_w = 0,70$
 Sound Absorbing Classification **C** (high absorbing)

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	0,30	0,63	0,81	0,70	0,59	0,60



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 = 0,77
 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	0,71	0,81	0,80	0,73	0,74

