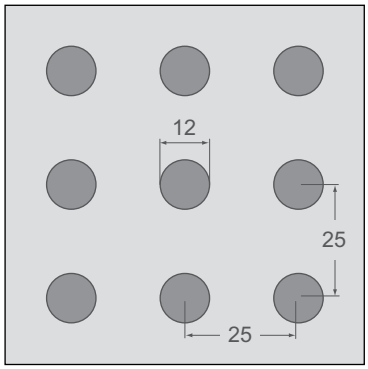
Acoustic Design Boards

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

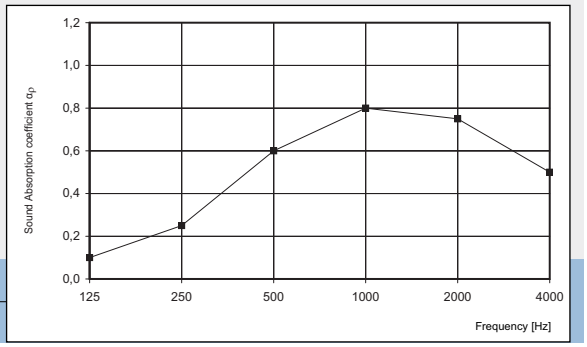
Thickness of the Board:	d = 12,5 mm
Density:	8,20 kg/m²
Perforated Area:	18,1 %
Building Material Classification according DIN 4102:	A2, “non combustible”
Fire performance according DIN EN 13501:	A2-s1, d0

Back of tile laminated with
Acoustic fleece AV 2010

Sound Absorption **α_w = 0,55 (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

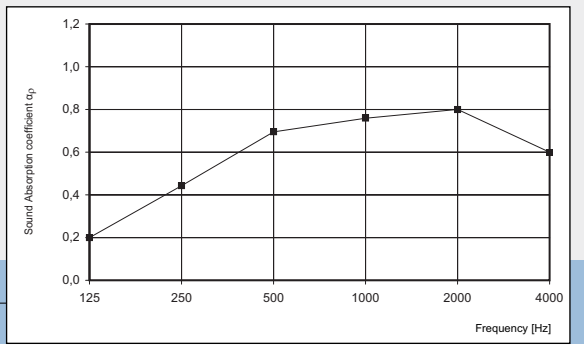


Back of tile laminated with
Acoustic fleece 2010 +
Glass wool sound protection board SSP 1, 30 mm

Sound Absorption **α_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



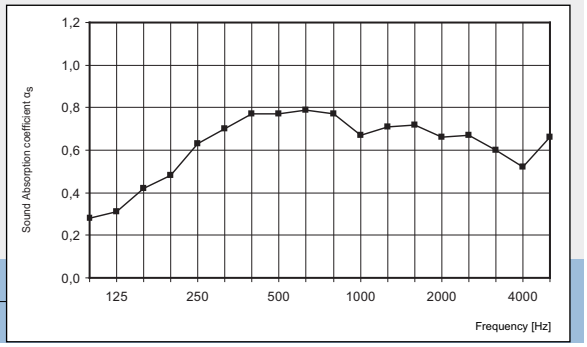
Back of tile laminated with
Acoustic fleece AV 2010

Sound Absorption **α_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



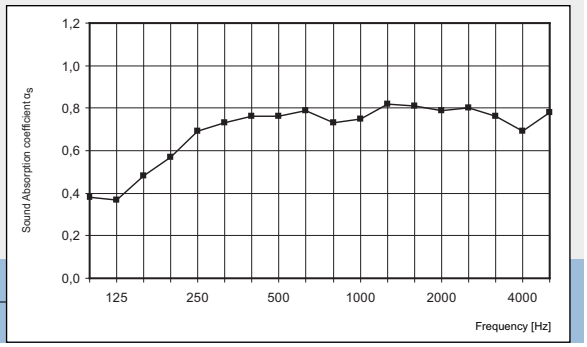
Back of tile laminated with
Acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1, 30 mm

Sound Absorption **α_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



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