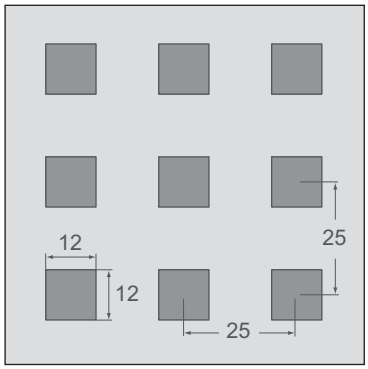
Acoustic Design Boards

Product Data Sheet 136

Sound Absorption

Acoustic Design Board 12/25Q (quadrat)



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

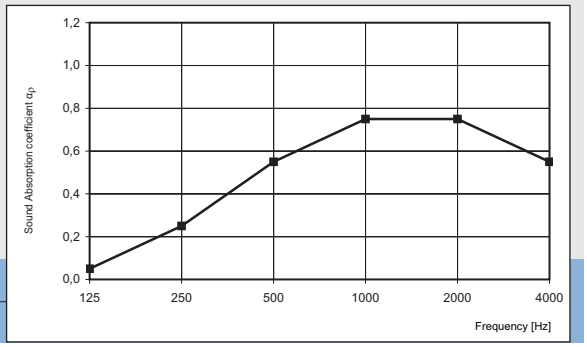
Thickness of the Board:	d = 12,5 mm
Density:	7,70 kg/m²
Perforated Area:	23,0 %
Building Material Classification according DIN 4102:	A2, “non combustible”
Fire performance according DIN EN 13501:	A2-s1, d0

Back of tile laminated with
Acoustic fleece AV 2010

Sound Absorption **α_w = 0,55**
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	0,75	0,75	0,55

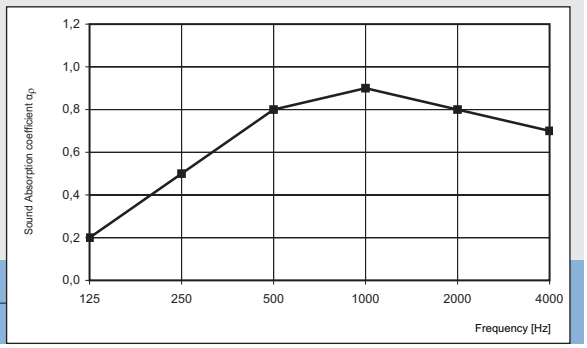


Back of tile laminated with
Acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1, 30 mm

Sound Absorption **α_w = 0,80**
Sound Absorbing Classification **B** (highest absorbing)

Ceiling Void: 65 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_p	0,20	0,50	0,80	0,90	0,80	0,70



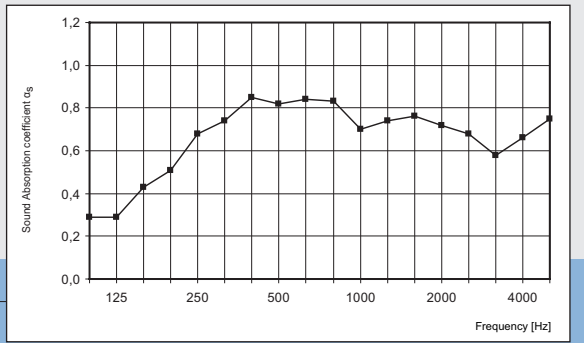
Back of tile laminated with
Acoustic fleece AV 2010

Sound Absorption **α_w = 0,75**
Sound Absorbing Classification **C** (high absorbing)

Single number rating acc. ASTM C 423: SAA = 0,74
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	0,29	0,68	0,82	0,70	0,72	0,66



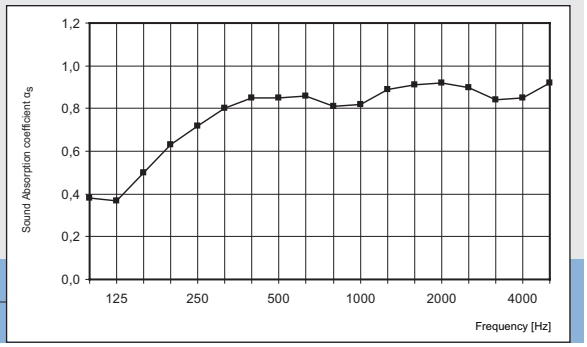
Back of tile laminated with
Acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1, 30 mm

Sound Absorption **α_w = 0,90**
Sound Absorbing Classification **A** (highest absorbing)

Single number rating acc. ASTM C 423: SAA = 0,83
Classification acc. ASTM E 1264: NRC = 0,85

Ceiling Void: 200 mm

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient α_s	0,37	0,72	0,85	0,82	0,92	0,85



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