

- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

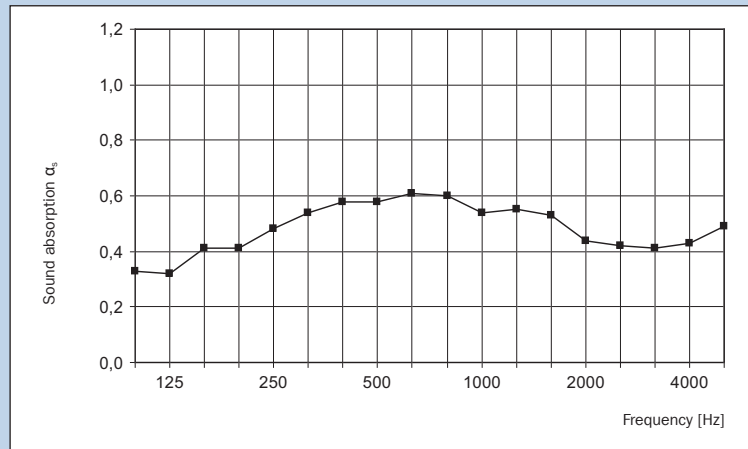
Panel thickness: $th = 12.5 \text{ mm}$
 Mass per unit area: 9.10 kg/m^2
 Perforated area: 9.5%
 Material class as per DIN 4102: A2, "non-flammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.55$
 sound absorption class **D**
 (absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.52
 Classification as per ASTM E 1264:
 NRC = 0.50

Air gap: 200 mm



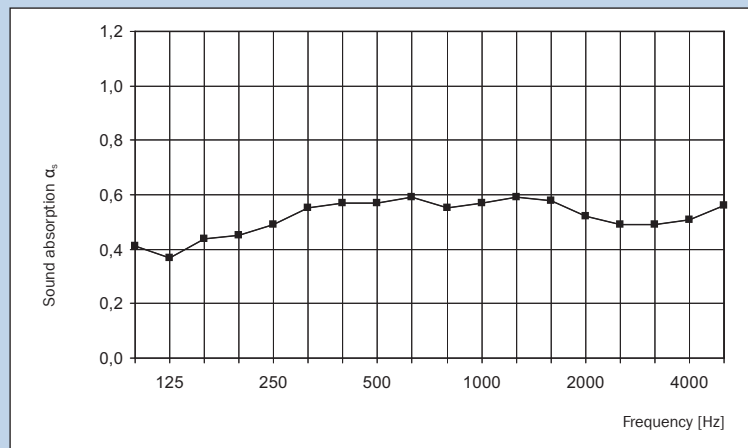
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.32	0.48	0.58	0.54	0.44	0.43

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.60$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.54
 Classification as per ASTM E 1264:
 NRC = 0.55

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.37	0.49	0.57	0.57	0.52	0.51

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<http://www.vogl-ceilingssystems.com/> in the "Downloads" category