

Acoustic Design Ceilings

Product data sheet 248

Sound absorption



Design board 6/18R 6F



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

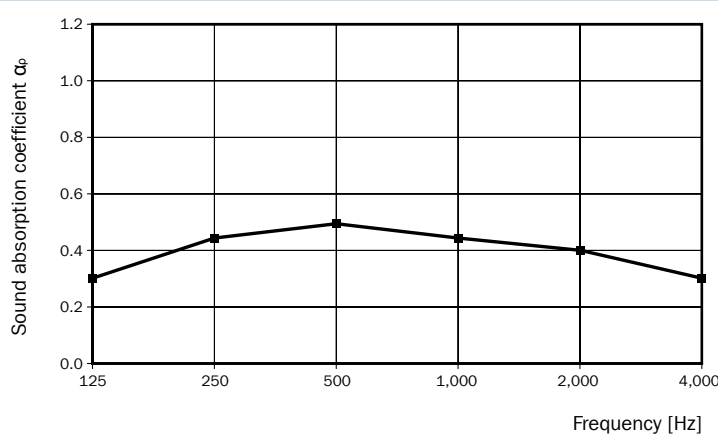
Panel thickness: $th = 12.5 \text{ mm}$
 Mass per unit area: 9.38 kg/m^2
 Perforated area: 6.16%
 Fire behaviour as per DIN EN 13501: $A2-s1, d0$

Back of panel laminated with **acoustic fleece AV 2010 without insulation**

Rated sound absorption coefficient $\alpha_w = 0.45$
 Sound absorption class **D** (absorbing)

Single number rating as per ASTM C 423: $SAA = 0.45$
Classification as per ASTM E 1264: $NRC = 0.45$

Air gap: 200 mm



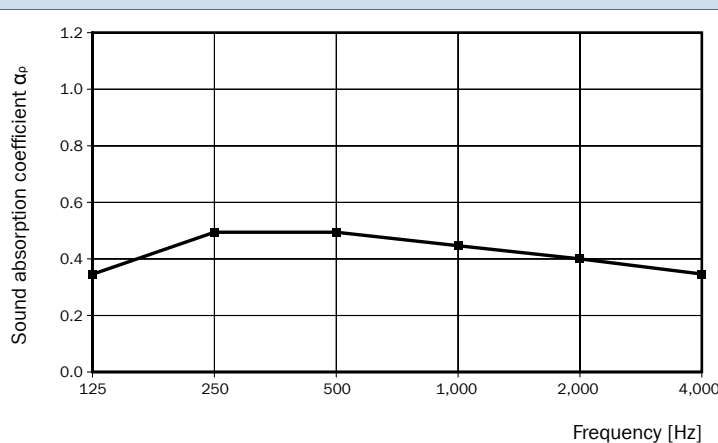
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.30	0.45	0.50	0.45	0.40	0.30

Back of panel laminated with **acoustic fleece AV 2010 + 30 mm insulation**

Rated sound absorption coefficient $\alpha_w = 0.45 \text{ (L)}$
 Sound absorption class **D** (absorbing)

Single number rating as per ASTM C 423: $SAA = 0.46$
Classification as per ASTM E 1264: $NRC = 0.45$

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.50	0.50	0.45	0.40	0.35

Find all our product documentation in many languages, always up-to-date and available at any time, on our website under: <http://www.vogl-ceilingssysteme.com> under "Downloads"