

# Acoustic Design Ceilings

Product data sheet 249

Sound absorption



## Design board 12/25R 6F



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

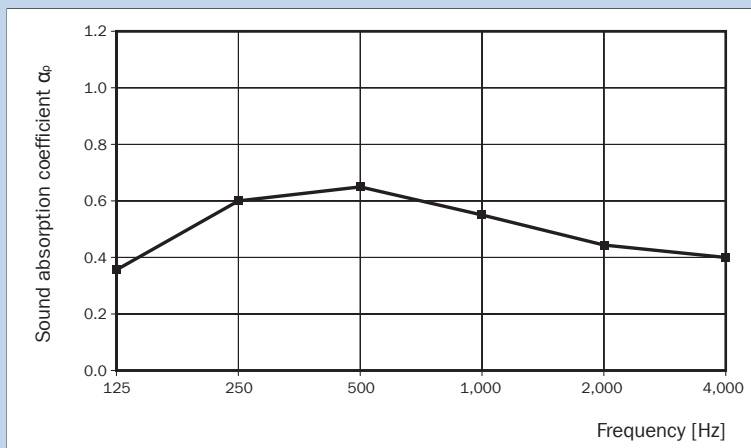
Panel thickness:  $th = 12.5 \text{ mm}$   
 Mass per unit area:  $8.90 \text{ kg/m}^2$   
 Perforated area:  $11.02 \%$   
 Fire behaviour as per DIN EN 13501:  $A2-s1, d0$

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

Rated sound absorption coefficient  $\alpha_w = 0.50$  (L)  
 Sound absorption class **D** (absorbing)

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

**Air gap: 200 mm**



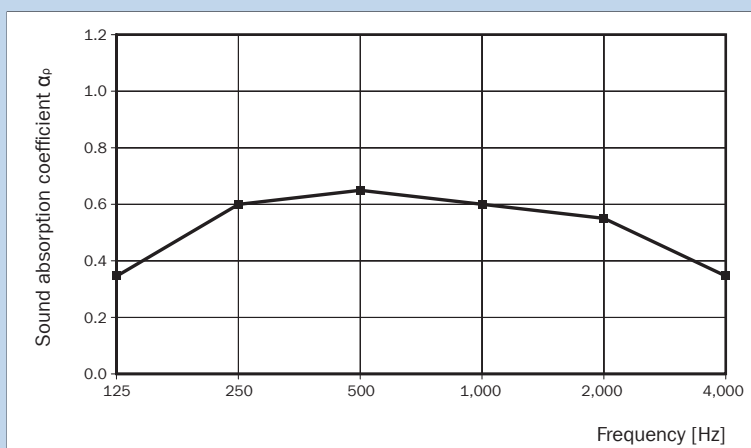
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient $\alpha_p$	0.35	0.60	0.65	0.55	0.45	0.40

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

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

Single number rating as per ASTM C 423:  $SAA = 0.59$   
**Classification as per ASTM E 1264:  $NRC = 0.60$**

**Air gap: 200 mm**



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient $\alpha_p$	0.35	0.60	0.65	0.60	0.55	0.45

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