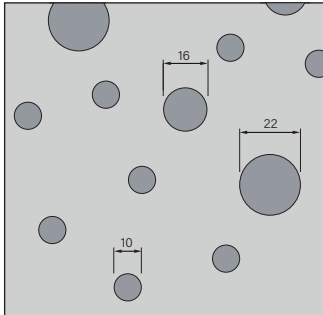


# Acoustic design ceilings

Product data sheet 255

Sound absorption 100 mm / 400 mm

## Acoustic design panel 10/16/22R



- 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:  $8.7 \text{ kg/m}^2$   
 Perforated area:  $12.6 \%$   
 Fire rating as per DIN 4102: A2, "non-flammable"  
 Fire behaviour as per DIN EN 13501: A2-s1, d0

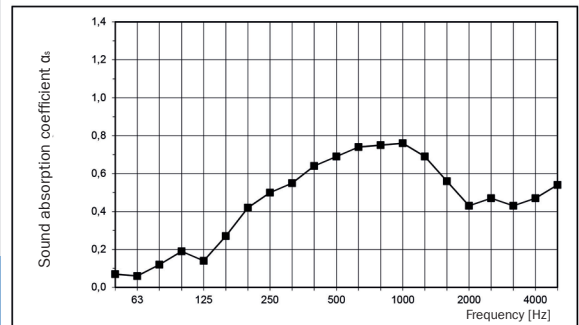
Back of panel laminated with  
**acoustic fleece AV 2010**

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

Single number rating as per ASTM C 423-09a: SAA = 0.60  
 Classification as per ASTM E 1264: NRC = 0.60

**Air gap 100 mm**

Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient $\alpha_p$	0.20	0.50	0.70	0.75	0.50	0.50



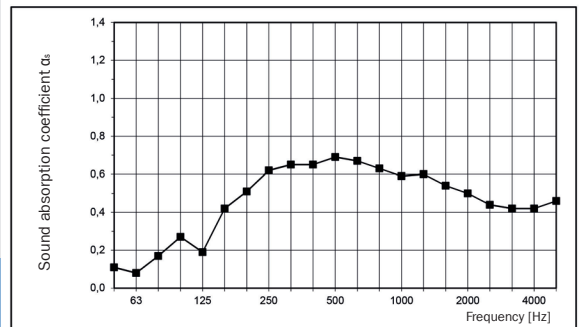
Back of panel laminated with  
**acoustic fleece AV 2010 +  
 Mineral wool layer 30 mm (SSP 1)**

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

Single number rating as per ASTM C 423-09a: SAA = 0.59  
 Classification as per ASTM E 1264: NRC = 0.60

**Air gap 100 mm**

Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient $\alpha_p$	0.30	0.60	0.65	0.60	0.50	0.45



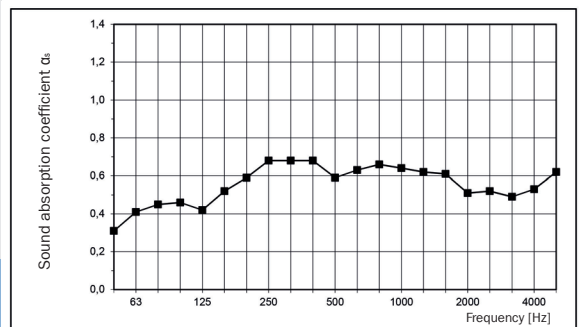
Back of panel laminated with  
**acoustic fleece AV 2010**

Rated sound absorption coefficient  $\alpha_w = 0.65$   
 Sound absorption class **C** (highly absorbing)

Single number rating as per ASTM C 423-09a: SAA = 0.61  
 Classification as per ASTM E 1264: NRC = 0.60

**Air gap 400 mm**

Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient $\alpha_p$	0.45	0.65	0.65	0.65	0.55	0.55



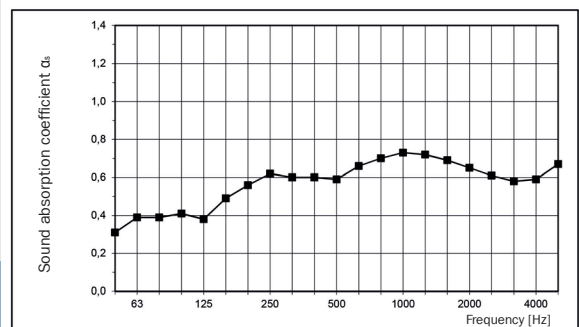
Back of panel laminated with  
**acoustic fleece AV 2010 +  
 Mineral wool layer 30 mm (SSP 1)**

Rated sound absorption coefficient  $\alpha_w = 0.65$   
 Sound absorption class **C** (highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.63  
 Classification as per ASTM E 1264: NRC = 0.65

**Air gap 400 mm**

Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient $\alpha_p$	0.45	0.60	0.60	0.70	0.65	0.60



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“