

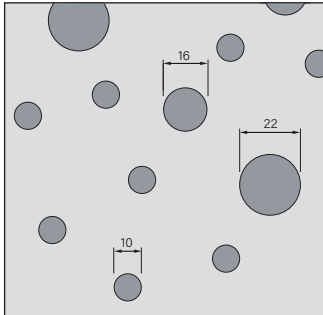
# Acoustic design ceilings

Product data sheet 254

Sound absorption 65 mm / 200 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:  $A2, \text{ "non-flammable"}$   
 Fire behaviour as per DIN EN 13501:  $A2-s1, d0$

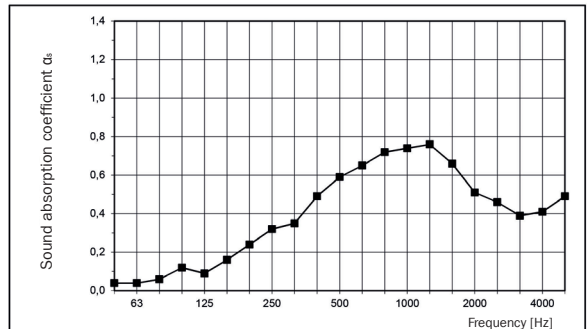
Back of panel laminated with  
**acoustic fleece AV 2010**

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

Single number rating as per ASTM C 423-09a:  $SAA = 0.54$   
 Classification as per ASTM E 1264:  $NRC = 0.55$

**Air gap 65 mm**

Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient $\alpha_p$	0.10	0.30	0.60	0.75	0.55	0.45



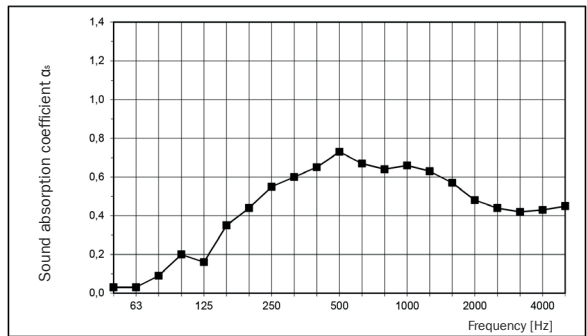
Back of panel laminated with  
**acoustic fleece AV 2010 + Mineral wool layer 30 mm (SSP 1)**

Rated sound absorption coefficient  $\alpha_w = 0.55$   
 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 65 mm**

Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient $\alpha_p$	0.25	0.55	0.70	0.65	0.50	0.45



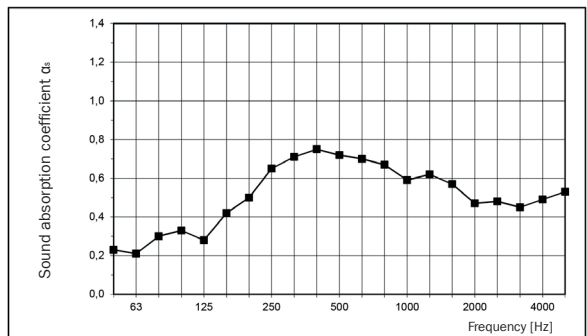
Back of panel laminated with  
**acoustic fleece AV 2010**

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

Single number rating as per ASTM C 423-09a:  $SAA = 0.62$   
 Classification as per ASTM E 1264:  $NRC = 0.60$

**Air gap 200 mm**

Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient $\alpha_p$	0.35	0.60	0.70	0.65	0.50	0.50



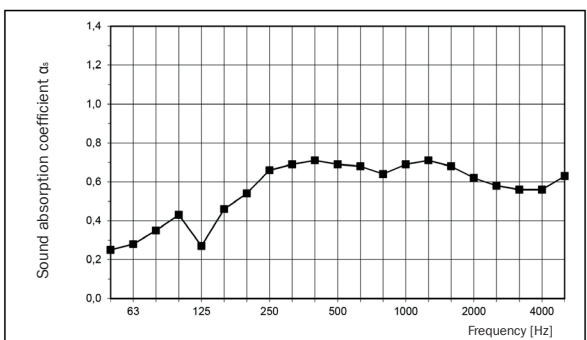
Back of panel laminated with  
**acoustic fleece AV 2010 + Mineral wool layer 30 mm (SSP 1)**

Rated sound absorption coefficient  $\alpha_w = 0.70$   
 Sound absorption class **C** (highly absorbing)

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

**Air gap 200 mm**

Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient $\alpha_p$	0.40	0.65	0.70	0.70	0.65	0.60



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<http://www.vogl-ceilingssystem.com> under "Downloads"