

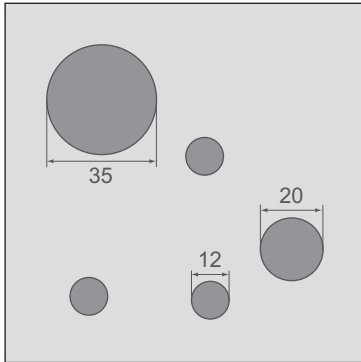
Acoustic Design Ceilings

Product data sheet 225

Sound absorption 100 mm / 400 mm



Acoustic Design Panel 12/20/35R (round)



- 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 kg/m^2
 Perforated Area: 11.0%
 Fire rating as per DIN 4102: $A2, \text{ "non combustible"}$
 Fire behaviour as per DIN EN 13501-1: $A2-s1, d0$

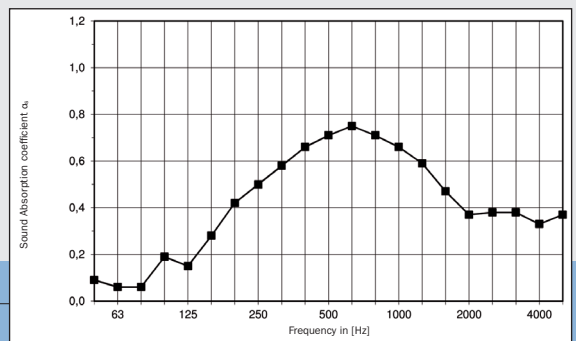
Back of panel laminated with
acoustic fleece AV 2010

Sound absorption $\alpha_w = 0.45 \text{ (LM)}$
 Sound absorbing classification **D**

Single number rating acc. ASTM C 423: SAA = 0.57
 Classification acc. ASTM E 1264: NRC = 0.55

Ceiling void: 100 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.20	0.50	0.70	0.65	0.40	0.35



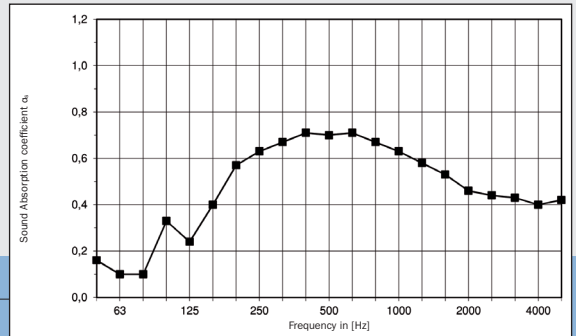
Back of panel laminated with
**acoustic fleece AV 2010 +
 Glass wool sound protection board SSP 1, 30 mm**

Sound absorption $\alpha_w = 0.55 \text{ (L)}$
 Sound absorbing classification **D**

Single number rating acc. ASTM C 423: SAA = 0.61
 Classification acc. ASTM E 1264: NRC = 0.60

Ceiling void: 100 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.30	0.60	0.70	0.65	0.50	0.40



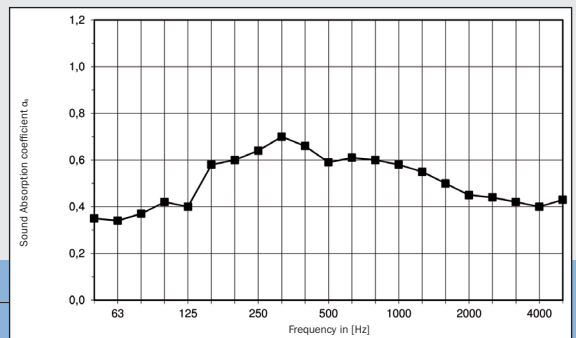
Back of panel laminated with
acoustic fleece AV 2010

Sound absorption $\alpha_w = 0.50 \text{ (L)}$
 Sound absorbing classification **D**

Single number rating acc. ASTM C 423: SAA = 0.57
 Classification acc. ASTM E 1264: NRC = 0.55

Ceiling void: 400 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.45	0.65	0.60	0.60	0.45	0.40



Back of panel laminated with
**acoustic fleece AV 2010 +
 Glass wool sound protection board SSP 1, 30 mm**

Sound absorption $\alpha_w = 0.60$
 Sound absorbing classification **C**

Single number rating acc. ASTM C 423: SAA = 0.59
 Classification acc. ASTM E 1264: NRC = 0.60

Ceiling void: 400 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.45	0.60	0.60	0.65	0.55	0.50

