

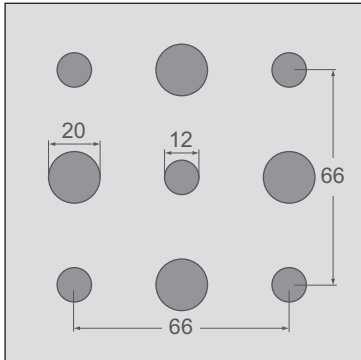
Acoustic design ceilings

Product data sheet 221

Sound absorption 100 mm / 400 mm



Acoustic design panel 12/20/66R (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: 8.00 kg/m^2
 Perforated area: 19.6%
 Fire rating as per DIN 4102: $A2, \text{ "non combustible"}$
 Fire behaviour as per DIN EN 13501-1: $A2-s1, d0$

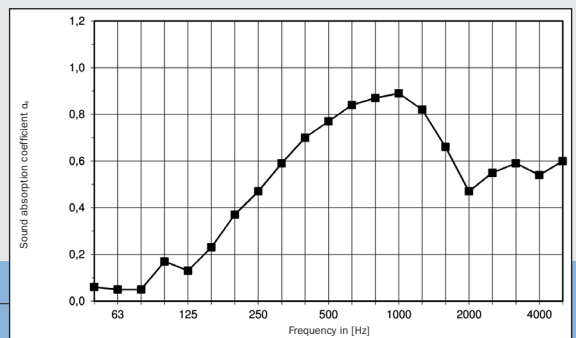
Back of panel laminated with
acoustic fleece AV 2010

Sound absorption $\alpha_W = 0.65$
 Sound absorbing classification **C**

Single number rating acc. ASTM C 423: SAA = 0.67
 Classification acc. ASTM E 1264: NRC = 0.65

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	0.75	0.85	0.55	0.60



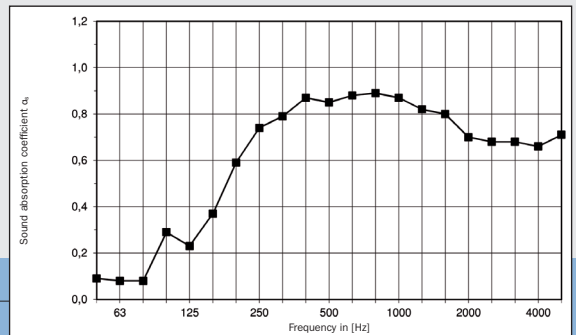
Back of panel laminated with
**acoustic fleece AV 2010 +
 Glass wool sound protection board SSP 1, 30 mm**

Sound absorption $\alpha_W = 0.80$
 Sound absorbing classification **B**

Single number rating acc. ASTM C 423: SAA = 0.79
 Classification acc. ASTM E 1264: NRC = 0.80

Ceiling void: 100 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.30	0.70	0.85	0.85	0.75	0.70



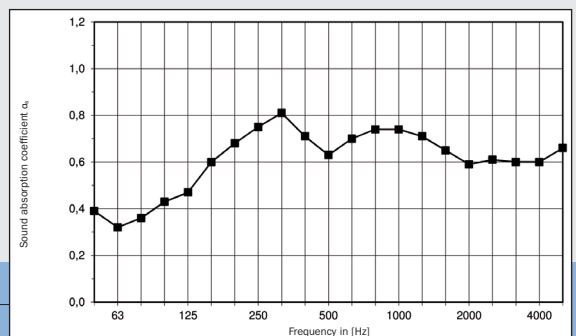
Back of panel laminated with
acoustic fleece AV 2010

Sound absorption $\alpha_W = 0.70 \text{ (L)}$
 Sound absorbing classification **C**

Single number rating acc. ASTM C 423: SAA = 0.68
 Classification acc. ASTM E 1264: NRC = 0.65

Ceiling void: 400 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.50	0.75	0.70	0.75	0.60	0.60



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

Sound absorption $\alpha_W = 0.80$
 Sound absorbing classification **B**

Single number rating acc. ASTM C 423: SAA = 0.76
 Classification acc. ASTM E 1264: NRC = 0.75

Ceiling void: 400 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.50	0.70	0.70	0.85	0.80	0.75

