

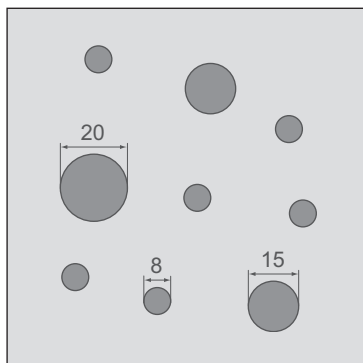
Acoustic Design Ceilings

Product data sheet 224

Sound absorption 100 mm / 400 mm



Acoustic Design Panel 8/15/20R (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: 9.10 kg/m^2
 Perforated area: 9.5%
 Fire rating as per DIN 4102: $A2, \text{ "non combustible"}$
 Fire behaviour as per DIN EN 13501-1: $A2-s1, d0$

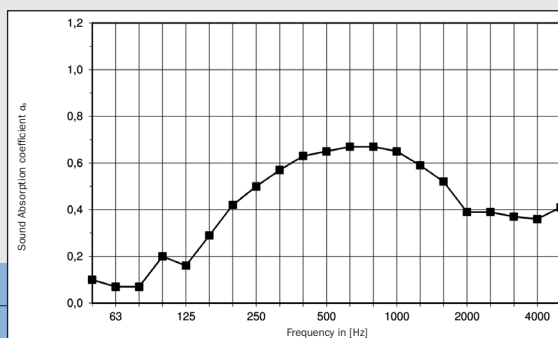
Back of panel laminated with
acoustic fleece AV 2010

Sound absorption $\alpha_w = 0.50$
 Sound absorbing classification **D**

Single number rating acc. ASTM C 423: SAA = 0.55
 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	0.65	0.65	0.45	0.40



Back of panel laminated with
acoustic fleece AV 2010 +

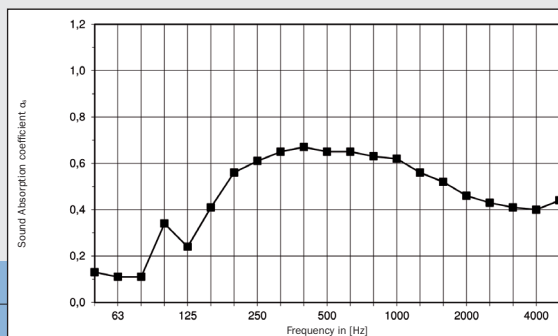
Glass wool sound protection board SSP 1, 30 mm

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

Single number rating acc. ASTM C 423: SAA = 0.58
 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	0.35	0.60	0.65	0.60	0.45	0.40



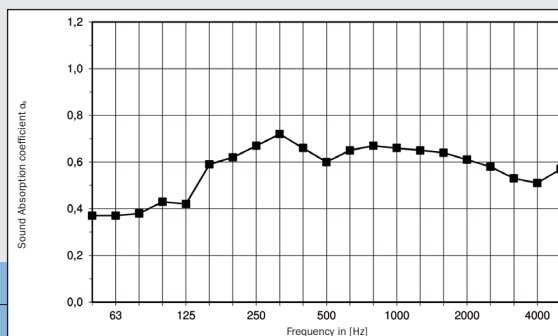
Back of panel laminated with
acoustic fleece AV 2010

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

Single number rating acc. ASTM C 423: SAA = 0.63
 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	0.65	0.65	0.65	0.60	0.55



Back of panel laminated with
acoustic fleece AV 2010 +

Glass wool sound protection board SSP 1, 30 mm

Sound absorption $\alpha_w = 0.70$
 Sound absorbing classification **C**

Single number rating acc. ASTM C 423: SAA = 0.67
 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	0.45	0.65	0.65	0.75	0.70	0.60

