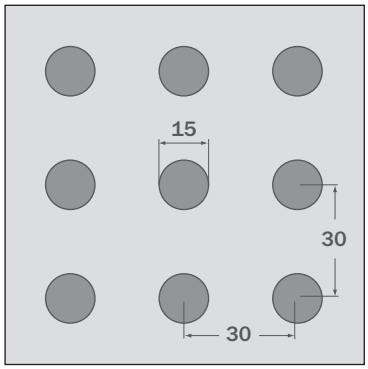
Acoustic design ceilings

Product data sheet 128

Sound absorption

Acoustic design panel 15/30R (round)



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

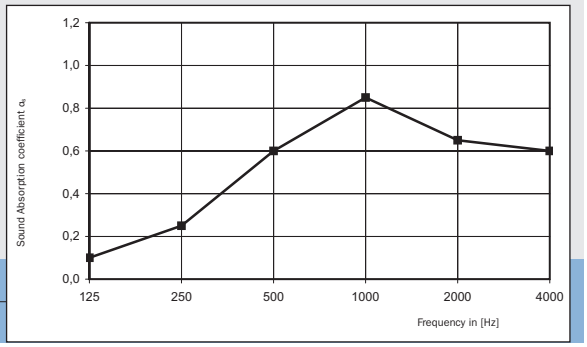
Panel thickness:	th = 12.5 mm
Mass per unit area:	8.00 kg/m²
Perforated area:	19.6 %
Fire rating as per DIN 4102:	A2, “non combustible”
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Sound absorption α_w **= 0.55 (M)**
Sound absorbing classification **D** (absorbing)

Ceiling void: 65 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.10	0.25	0.60	0.85	0.65	0.60

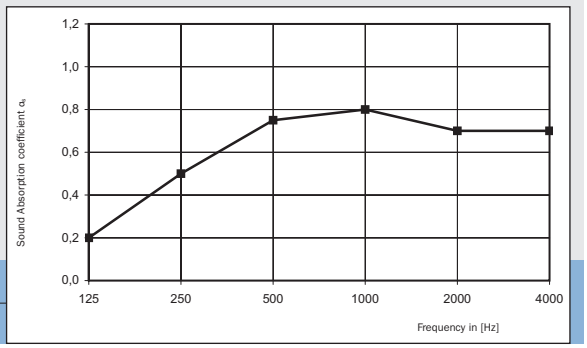


Back of panel laminated with
acoustic fleece AV 2010 +
Mineral wool panel SSP 1, 30 mm

Sound absorption α_w **= 0.75**
Sound absorbing classification **C** (high absorbing)

Ceiling void: 65 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.20	0.50	0.75	0.80	0.70	0.70



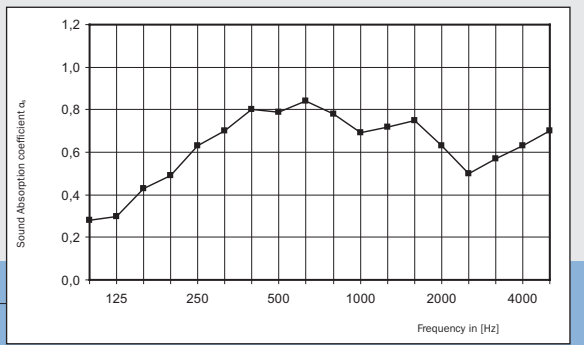
Back of panel laminated with
acoustic fleece AV 2010

Sound absorption α_w **= 0.75**
Sound absorbing classification **C** (high absorbing)

Single number rating acc. ASTM C 423: SAA = 0.69
Classification acc. ASTM E 1264: NRC = 0.70

Ceiling void: 200 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_s	0.30	0.63	0.79	0.69	0.63	0.63



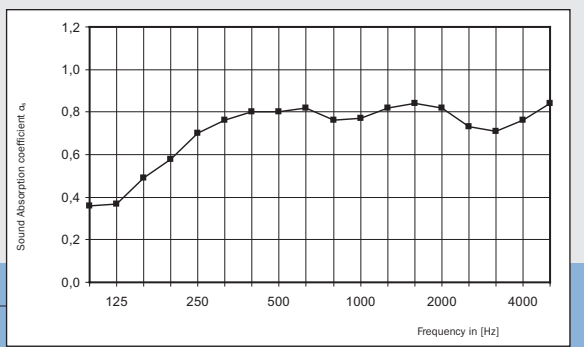
Back of panel laminated with
acoustic fleece AV 2010 +
Mineral wool panel SSP 1, 30 mm

Sound absorption α_w **= 0.80**
Sound absorbing classification **B** (highest absorbing)

Single number rating acc. ASTM C 423: SAA = 0.77
Classification acc. ASTM E 1264: NRC = 0.75

Ceiling void: 200 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_s	0.37	0.70	0.80	0.77	0.82	0.76



Vogl Deckensysteme GmbH Anton Vogl Str. 1, 91448 Emskirchen, Germany +49 9104 825-0 +49 9104 825-250 info@vogl-ceilingsystems.com