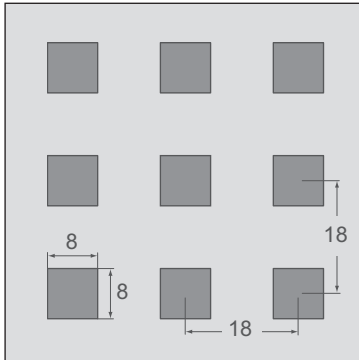


Acoustic Design Ceilings

Product data sheet 222

Sound Absorption 100 mm / 400 mm

Acoustic Design Panel 8/18Q (quadrat)



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

Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 8.00 kg/m^2
 Perforated area: 19.8%
 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 $\alpha_W = 0.70$

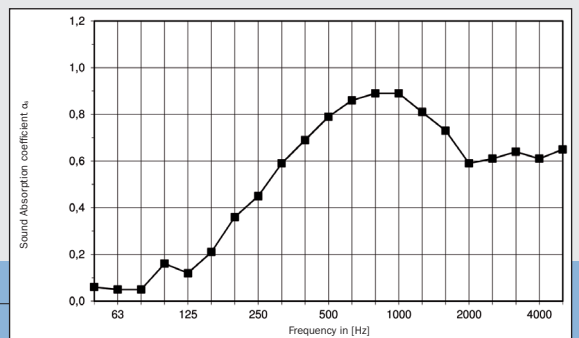
Sound absorbing classification **C**

Single number rating acc. ASTM C 423: SAA = 0.69

Classification acc. ASTM E 1264: NRC = 0.70

Ceiling void: 100 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.15	0.45	0.80	0.85	0.65	0.65



Back of panel laminated with

**acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1, 30 mm**

Sound absorption $\alpha_W = 0.85$

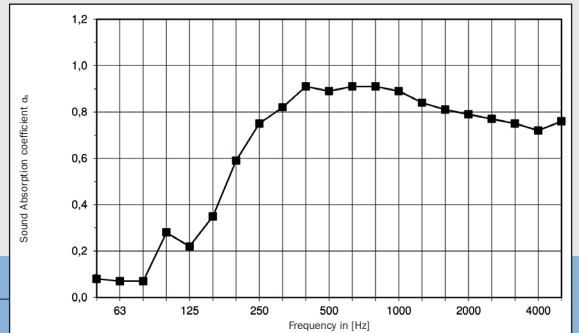
Sound absorbing classification **B**

Single number rating acc. ASTM C 423: SAA = 0.82

Classification acc. ASTM E 1264: NRC = 0.85

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	0.90	0.90	0.80	0.75



Back of panel laminated with
acoustic fleece AV 2010

Sound absorption $\alpha_W = 0.75$

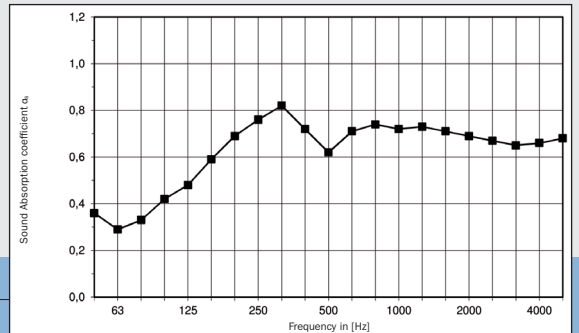
Sound absorbing classification **C**

Single number rating acc. ASTM C 423: SAA = 0.70

Classification acc. ASTM E 1264: NRC = 0.70

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	0.70	0.65



Back of panel laminated with

**acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1, 30 mm**

Sound absorption $\alpha_W = 0.85$

Sound absorbing classification **B**

Single number rating acc. ASTM C 423: SAA = 0.80

Classification acc. ASTM E 1264: NRC = 0.80

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	0.75	0.90	0.85	0.80

