

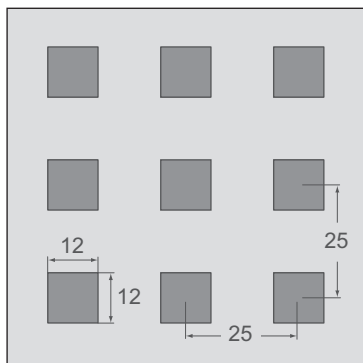
Acoustic Design Ceilings

Product data sheet 223

Sound absorption 100 mm / 400 mm



Acoustic Design Board 12/25Q (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: $th = 12.5 \text{ mm}$
 Mass per unit area: 7.70 kg/m^2
 Perforated area: 23.0%
 Fire rating as per DIN 4102: $A2, \text{ "non combustible"}$
 Fire behaviour as per DIN EN 13501-1: $A2-s1, d0$

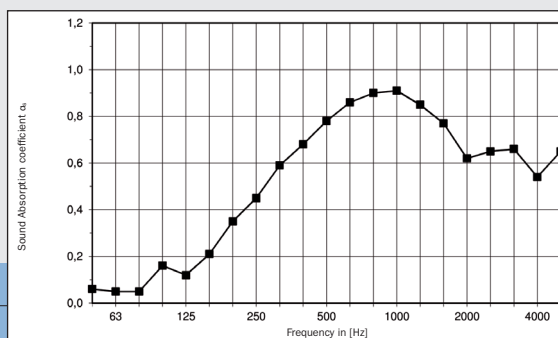
Back of panel laminated with
acoustic fleece AV 2010

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

Single number rating acc. ASTM C 423: SAA = 0.70
 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	0.75	0.90	0.70	0.60



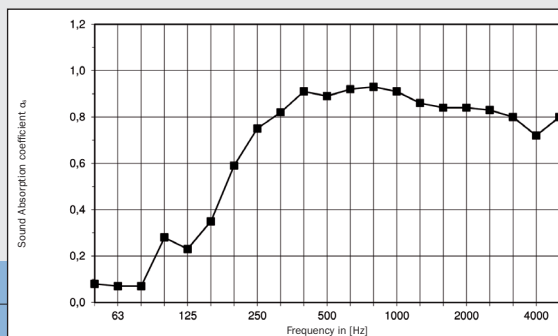
Back of panel laminated with
**acoustic fleece AV 2010 +
 Glass wool sound protection board SSP 1, 30 mm**

Sound absorption $\alpha_w = 0.90$
 Sound absorbing classification **A**

Single number rating acc. ASTM C 423: SAA = 0.84
 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	0.85	0.75



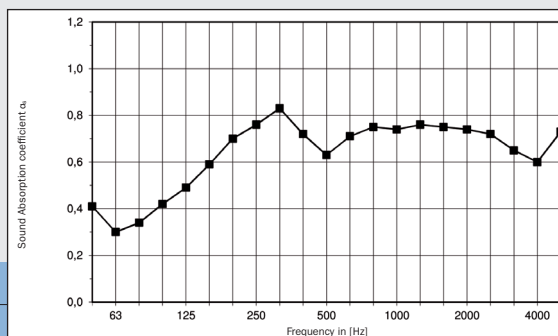
Back of panel laminated with
acoustic fleece AV 2010

Sound absorption $\alpha_w = 0.75$
 Sound absorbing classification **C**

Single number rating acc. ASTM C 423: SAA = 0.72
 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	0.75	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 = 0.81
 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	0.5	0.90	0.90	0.80

