

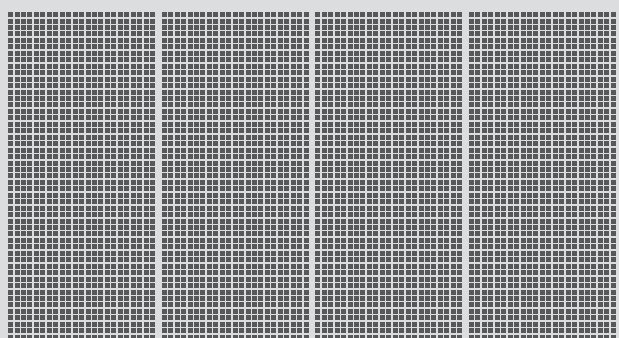
Acoustic Design Ceilings

Product data sheet 148

Acoustics absorption



Acoustic Design Panel 12/25Q Design 4F



- 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: 8.10 kg/m^2
 Perforated area: 18.9%
 Fire rating as per DIN 4102: A2, "non-flammable"
 Fire behaviour as per DIN EN 13501-1: A2-s1, d0

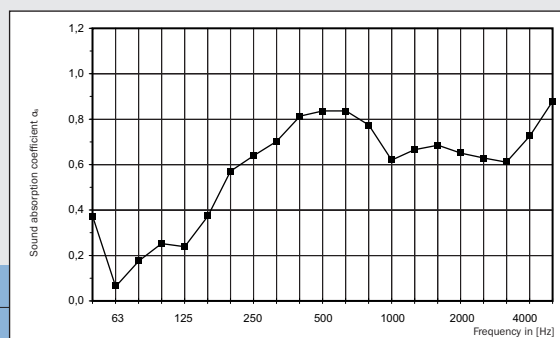
Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient $\alpha_w = 0.70$
 Sound absorption class **C** (highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.71
 Classification as per ASTM E 1264: NRC = 0.70

Air gap: 200 mm

Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_s	0.24	0.65	0.84	0.65	0.66	0.71



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

Rated sound absorption coefficient $\alpha_w = 0.85$
 Sound absorption class **B** (extremely absorbing)

Single number rating as per ASTM C 423: SAA = 0.80
 Classification as per ASTM E 1264: NRC = 0.80

Air gap: 200 mm

Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_s	0.28	0.71	0.83	0.78	0.86	0.90

