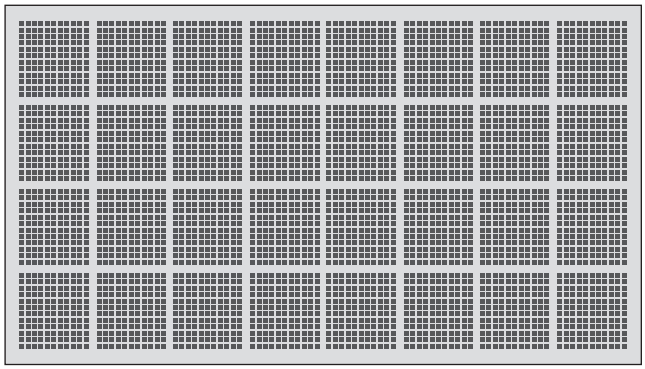
Acoustic Design Ceilings

Product data sheet 152

Acoustics absorption

Acoustic Design Panel 12/25Q Design 32F



- 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:	8.70 kg/m²
Perforated area:	13.0 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

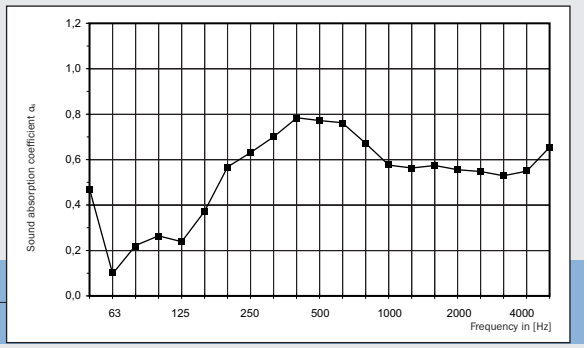
Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient **α_w = 0.60 (L)**
Sound absorption class **C** (highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.64
Classification as per ASTM E 1264: NRC= 0.65

Air gap: 200 mm

Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_S	0.25	0.63	0.77	0.57	0.54	0.52



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

Rated sound absorption coefficient **α_w = 0.70**
Sound absorption class **C** (highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.68
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	0.28	0.66	0.71	0.67	0.67	0.69