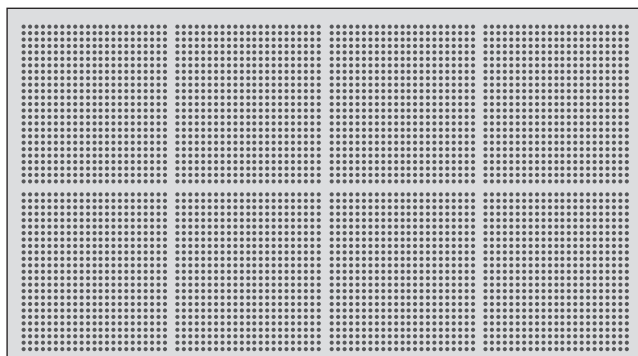


Acoustic Design Ceilings

Product data sheet 144

Acoustics absorption

Acoustic Design Panel 8/18R Design 8F



- 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: 8.80 kg/m^2
 Perforated area: $12,1 \%$
 Fire rating as per DIN 4102: A2, "non-flammable"
 Fire behaviour as per DIN EN 13501-1: A2-s1, d0

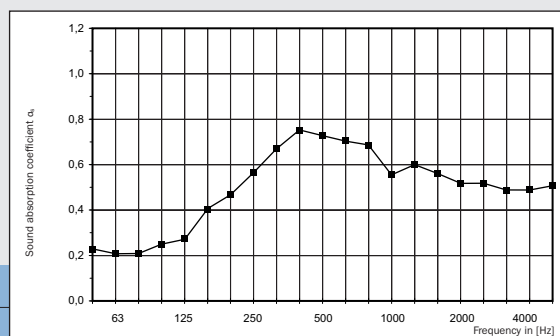
Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient $\alpha_w = 0.60$
 Sound absorption class **C** (highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.60
 Classification as per ASTM E 1264: NRC = 0.60

Air gap: 200 mm

Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_s	0.27	0.57	0.72	0.56	0.52	0.49



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

Rated sound absorption coefficient $\alpha_w = 0.65$
 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	0.35	0.60	0.70	0.65	0.65	0.55

