

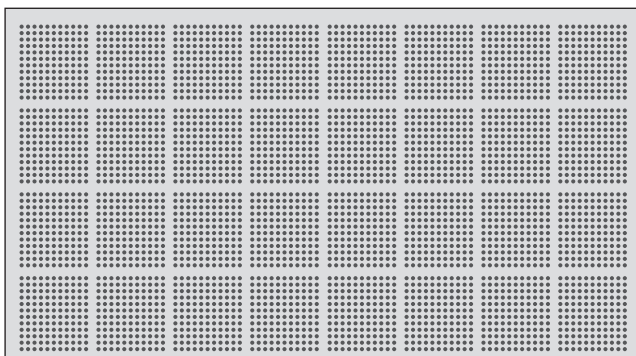
Acoustic Design Ceilings

Product data sheet 146

Acoustics absorption



Acoustic Design Panel 8/18R 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: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 9.10 kg/m^2
 Perforated area: 9.1%
 Fire rating as per DIN 4102: A2, "non-flammable"
 Fire behaviour as per DIN EN 13501-1: A2-s1, d0

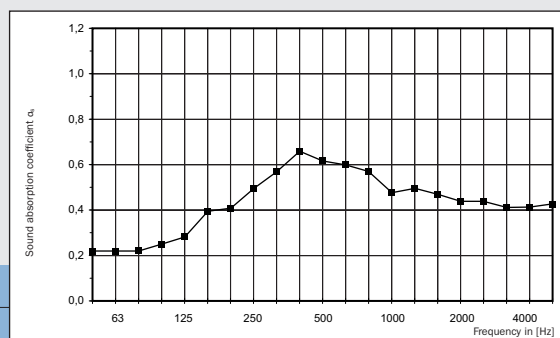
Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient $\alpha_w = 0.50$
 Sound absorption class **D** (absorbing)

Single number rating as per ASTM C 423: SAA = 0.52
 Classification as per ASTM E 1264: NRC = 0.50

Air gap: 200 mm

Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_s	0.26	0.49	0.62	0.48	0.44	0.41



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	0.29	0.54	0.59	0.54	0.51	0.47

