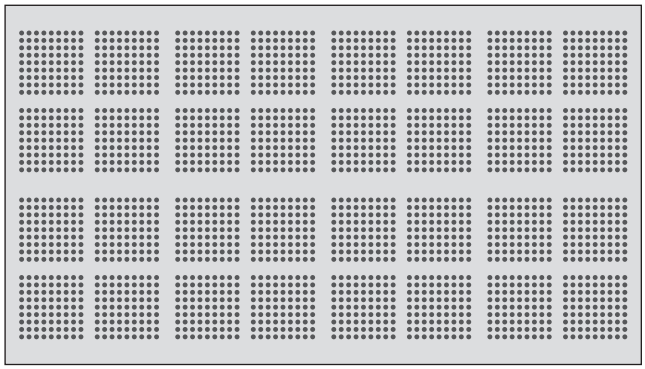
Acoustic Design Ceilings

Product data sheet 174

Acoustics absorption

Acoustic Design Panel 12/25R 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:	9.00 kg/m²
Perforated area:	10.2 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

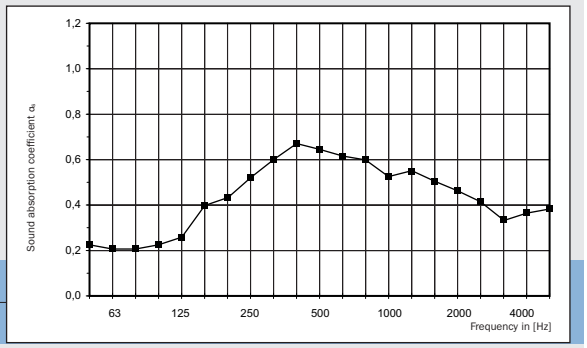
Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.50**
Sound absorption class **D** (absorbing)

Single number rating as per ASTM C 423: SAA = 0.54
Classification as per ASTM E 1264: NRC= 0.55

Air gap: 200 mm

Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_S	0.26	0.52	0.66	0.51	0.45	0.37



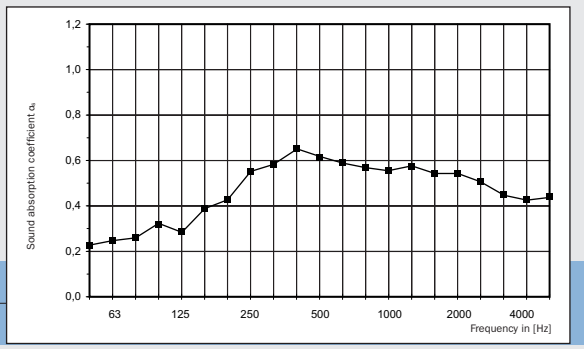
Back of panel laminated with
acoustic fleece AV 2010 + backed with mineral wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.55**
Sound absorption class **D** (absorbing)

Single number rating as per ASTM C 423: SAA = 0.56
Classification as per ASTM E 1264: NRC = 0.55

Air gap: 200 mm

Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_S	0.28	0.54	0.61	0.56	0.55	0.44



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