

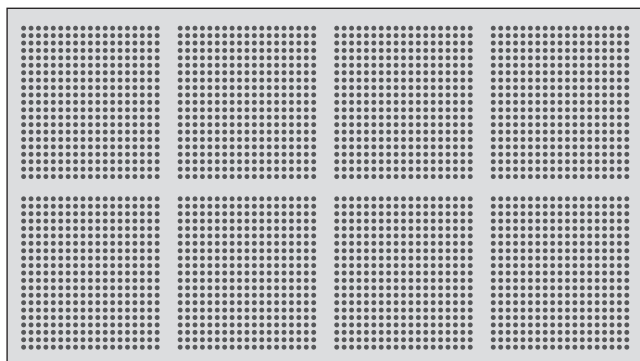
Acoustic Design Ceilings

Product data sheet 172

Sound absorption



Acoustic Design Panel 12/25R 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: 8.60 kg/m^2
 Perforated area: 13.9%
 Fire rating as per DIN 4102: $A2, \text{ "non combustible"}$
 Fire behaviour as per DIN EN 13501-1: $A2-s1, d0$

Back of panel laminated with
acoustic fleece AV 2010

Sound absorption $\alpha_w = 0.60$

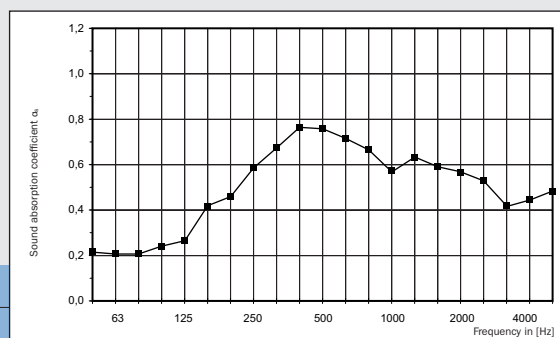
Sound absorbing classification **C** (high absorbing)

Single number rating acc. ASTM C 423: $SAA = 0.62$

Classification acc. ASTM E 1264: $NRC = 0.60$

Ceiling void: 200 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_s	0.27	0.59	0.74	0.57	0.56	0.45



Back of panel laminated with
acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1, 30 mm

Sound absorption $\alpha_w = 0.70$

Sound absorbing classification **C** (high absorbing)

Single number rating acc. ASTM C 423: $SAA = 0.66$

Classification acc. ASTM E 1264: $NRC = 0.65$

Ceiling void: 200 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_s	0.30	0.64	0.70	0.66	0.69	0.55

