

Acoustic Design Ceilings

Product data sheet 154

Sound absorption



Acoustic Design Panel 5/82/15,4SL Design 4F



- 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: 8.40 kg/m^2
 Perforated area: 15.7%
 Fire rating as per DIN 4102: A2, "non combustible"
 Fire behaviour as per DIN EN 13501-1: A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Sound absorption $\alpha_w = 0.55 \text{ (L)}$

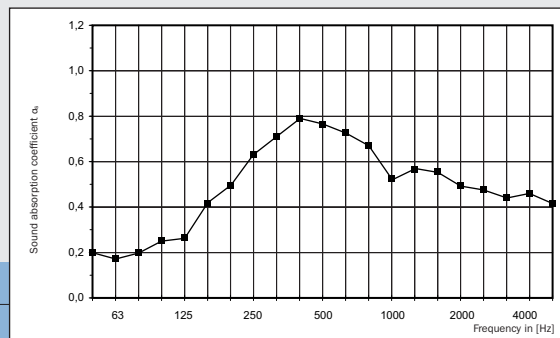
Sound absorbing classification **D** (absorbing)

Single number rating acc. ASTM C 423: SAA = 0.61

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	0.63	0.76	0.52	0.49	0.46



Back of panel laminated with

**acoustic fleece AV 2010 +
 Glass wool sound protection board SSP 1, 30 mm**

Sound absorption $\alpha_w = 0.65$

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	0.31	0.63	0.71	0.65	0.63	0.56

