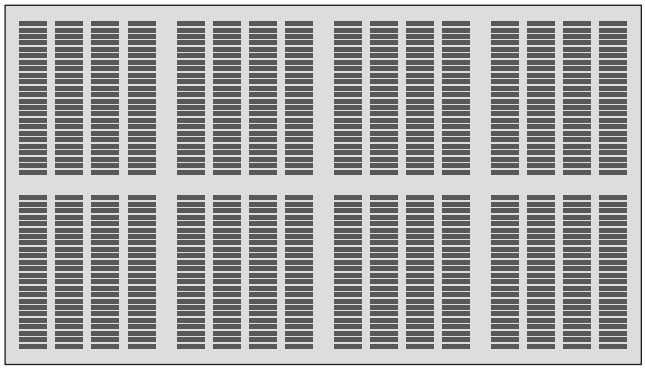
Acoustic Design Boards

Product data sheet 156

Sound absorption

Acoustic Design Panel 5/82/15,4SL 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 mm
Mass per unit area:	8.60 kg/m²
Perforated area:	13.7 %
Fire rating as per DIN 4102:	A2, “non combustible”
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

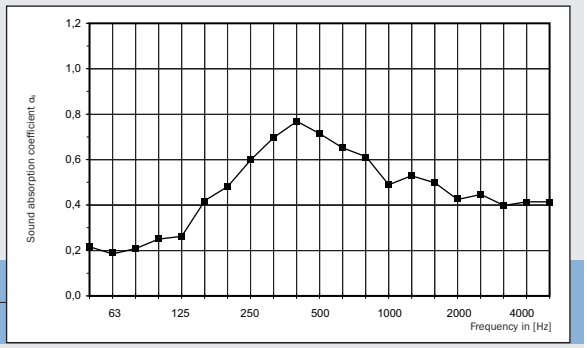
Back of panel laminated with
acoustic fleece AV 2010

Sound absorption α_w **= 0.50 (L)**
Sound absorbing classification **D** (absorbing)

Single number rating acc. ASTM C 423: SAA = 0.57
Classification acc. ASTM E 1264: NRC = 0.55

Ceiling void: 200 mm

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_S	0.28	0.60	0.70	0.49	0.43	0.41



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

Sound absorption α_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	0.64	0.66	0.60	0.56	0.52