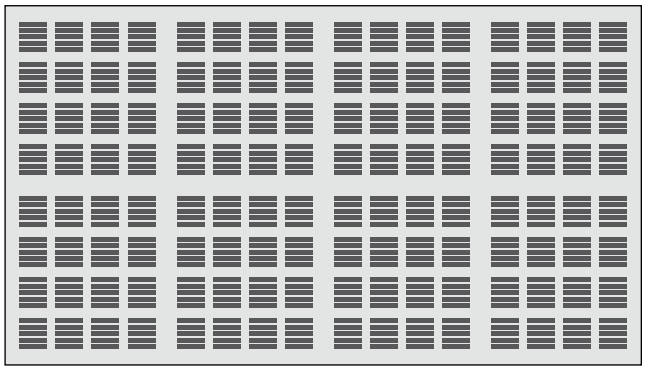
# Acoustic Design Ceilings

Product data sheet 158

Sound absorption

## Acoustic Design Panel 5/82/15,4SL Design 8/16F



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

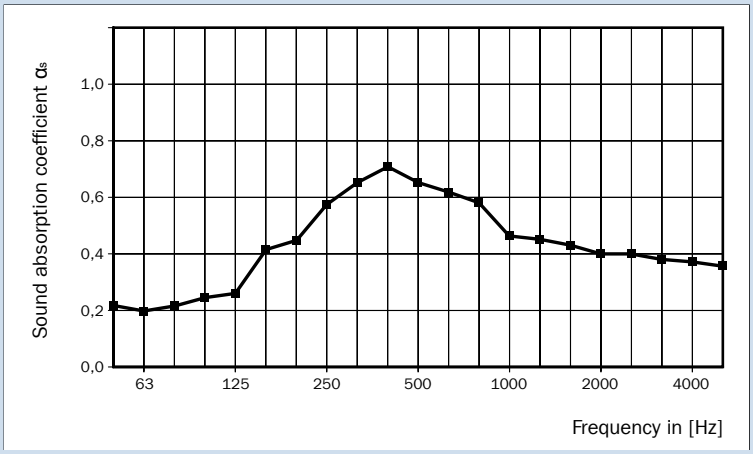
| | |
|---|---|
| Panel thickness: | th = 12.5 mm |
| Mass per unit area: | 8.90 kg/m2 |
| Perforated area: | 10,9 % |
| Fire rating as per DIN 4102: | A2, “non combustible” |
| Fire behaviour as per DIN EN 13501-1: | A2-s1, d0 |

Back of panel laminated with
**acoustic fleece AV 2010**

Sound absorption **$\alpha_w$ = 0,45 (L)**
Sound absorbing classification **D** (absorbing)

Single number rating acc. ASTM C 423: SAA = 0.53
**Classification acc. ASTM E 1264: NRC = 0.50**

**Ceiling Void: 200 mm**



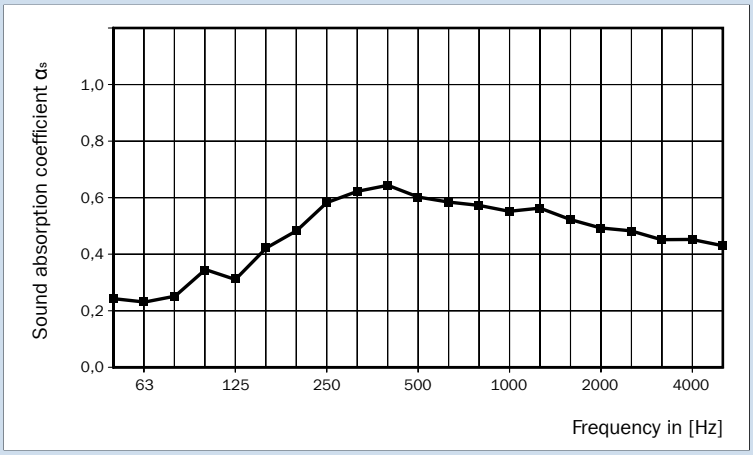

| Frequency in [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 |
|---|---|---|---|---|---|---|
| Sound absorption coefficient $\alpha_p$ | 0,30 | 0,55 | 0,65 | 0,50 | 0,40 | 0,35 |

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

Sound Absorption **$\alpha_w$ = 0,55**
Sound Absorbing Classification **D** (absorbing)

Single number rating acc. ASTM C 423: SAA = 0.56
**Classification acc. ASTM E 1264: NRC = 0.55**

**Ceiling void: 200 mm**




| Frequency in [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 |
|---|---|---|---|---|---|---|
| Sound absorption coefficient $\alpha_p$ | 0,35 | 0,55 | 0,60 | 0,55 | 0,50 | 0,45 |

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