

# Ceiling Tiles

Product data sheet 234

Sound absorption 200 mm / 400 mm



## Ceiling Tile 5/82/15,4SL Design 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:  $th = 12.5 \text{ mm}$   
 Mass per unit area:  $8.85 - 8.99 \text{ kg/m}^2 (*)$   
 Perforated area:  $10.07 - 11.50 \% (*)$   
 Fire behaviour as per DIN EN 13501-1: A2-s1, d0

(\*) = vary in according to size and edge type

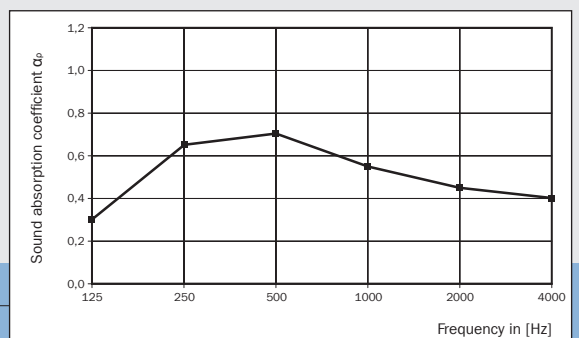
Back of panel laminated with  
**acoustic fleece AV 2010**

Sound absorption  $\alpha_w = 0.50 \text{ (L)}$   
 Sound absorbing classification **D** (absorbing)

Single number rating acc. ASTM C423-09a: **SAA = 0.57**  
**NRC = 0.55**

Ceiling void: E-200 (200 mm)

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient $\alpha_p$	0.30	0.65	0.70	0.55	0.45	0.40



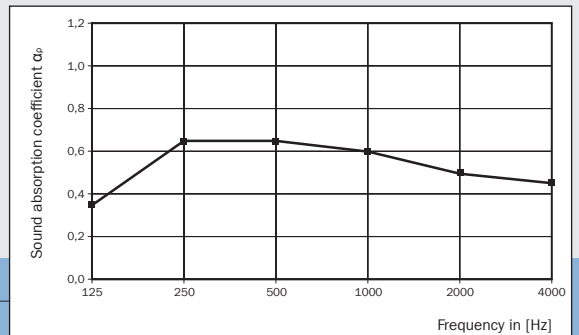
Back of panel laminated with  
**acoustic fleece AV 2010 +**  
**Glass wool sound protection board SSP 1 (30 mm)**

Sound absorption  $\alpha_w = 0.55 \text{ (L)}$   
 Sound absorbing classification **D** (absorbing)

Single number rating acc. ASTM C423-09a: **SAA = 0.60**  
**NRC = 0.60**

Ceiling void: E-200 (200 mm)

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient $\alpha_p$	0.35	0.65	0.65	0.60	0.50	0.45



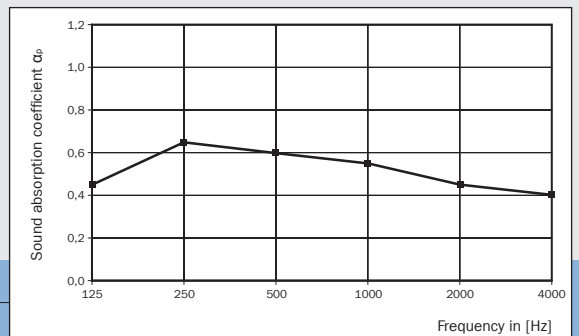
Back of panel laminated with  
**acoustic fleece AV 2010**

Sound absorption  $\alpha_w = 0.50 \text{ (L)}$   
 Sound absorbing classification **D** (absorbing)

Single number rating acc. ASTM C423-09a: **SAA = 0.55**  
**NRC = 0.55**

Ceiling void: E-400 (400 mm)

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient $\alpha_p$	0.45	0.65	0.60	0.55	0.45	0.40



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

Sound absorption  $\alpha_w = 0.60$   
 Sound absorbing classification **C** (highly absorbing)

Single number rating acc. ASTM C423-09a: **SAA = 0.59**  
**NRC = 0.60**

Ceiling void: E-400 (400 mm)

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient $\alpha_p$	0.45	0.60	0.60	0.65	0.55	0.50

