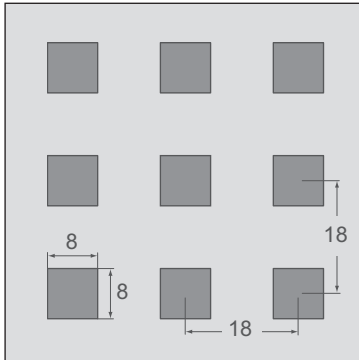


Ceiling Tiles

Product data sheet 232

Sound absorption 200 mm / 400 mm

Ceiling Tile 8/18Q (quadrat)



- 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: $8.31 - 8.55 \text{ kg/m}^2 (*)$
 Perforated area: $14.46 - 16.86 \% (*)$
 Fire behaviour as per DIN EN 13501-1: A2-s1, d0

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

Back of tile laminated with
acoustic fleece AV 2010

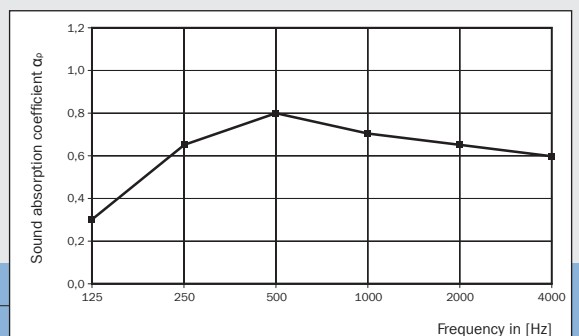
Sound absorption $\alpha_w = 0.70$

Sound absorbing classification **C** (highly absorbing)

Single number rating acc. ASTM C423-09a: **SAA = 0.68**
NRC = 0.65

Ceiling void: E-200 (200 mm)

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.30	0.65	0.80	0.70	0.65	0.60



Back of tile laminated with

acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1 (30 mm)

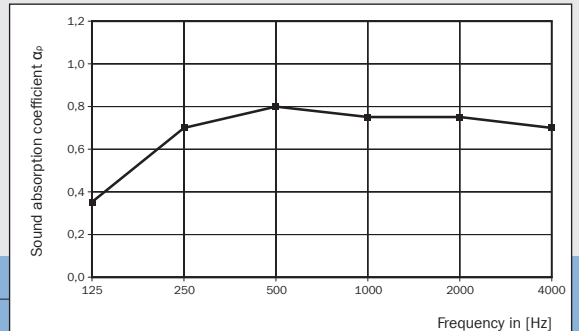
Sound absorption $\alpha_w = 0.80$

Sound absorbing classification **B** (highest absorbing)

Single number rating acc. ASTM C423-09a: **SAA = 0.73**
NRC = 0.75

Ceiling void: E-200 (200 mm)

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.70	0.80	0.75	0.75	0.70



Back of tile laminated with

acoustic fleece AV 2010

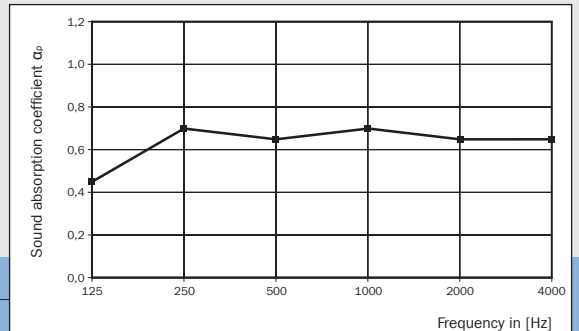
Sound absorption $\alpha_w = 0.70$

Sound absorbing classification **C** (highly absorbing)

Single number rating acc. ASTM C423-09a: **SAA = 0.66**
NRC = 0.65

Ceiling void: E-400 (400 mm)

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.45	0.70	0.65	0.70	0.65	0.65



Back of tile laminated with

acoustic fleece AV 2010 +
Glass wool sound protection board SSP 1 (30 mm)

Sound absorption $\alpha_w = 0.80$

Sound absorbing classification **B** (highest absorbing)

Single number rating acc. ASTM C423-09a: **SAA = 0.72**
NRC = 0.70

Ceiling void: E-400 (400 mm)

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.45	0.65	0.70	0.80	0.80	0.75

