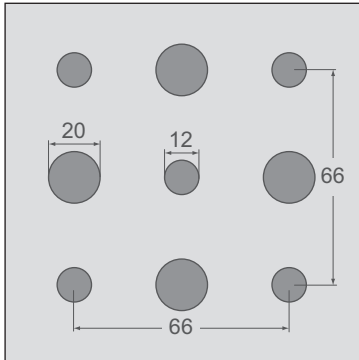


Ceiling Tiles

Product data sheet 231

Sound Absorption 200 mm / 400 mm

Ceiling Tile 12/20/66R (round)



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

Panel thickness:
Mass per unit area:
Perforated area:
Fire behaviour as per DIN EN 13501-1: A2-s1, d0

th = 12.5 mm
8.19 - 8.77 kg/m² (*)
12.35 - 18.09 % (*)

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

Back of panel laminated with
acoustic fleece AV 2010

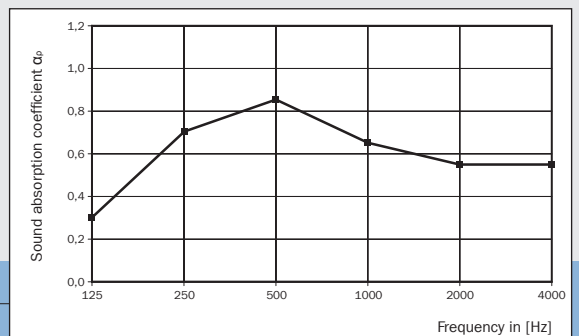
Sound absorption $\alpha_w = 0.65$ (L)

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	0.70	0.85	0.65	0.55	0.55



Back of panel laminated with

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

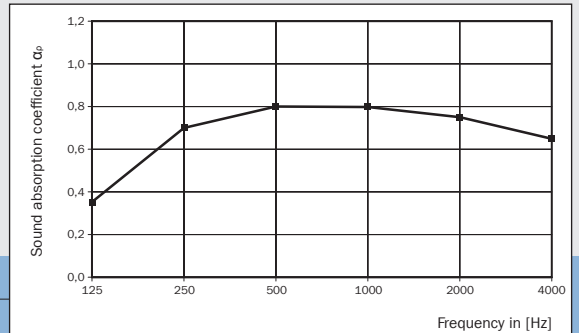
Sound absorption $\alpha_w = 0.80$

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

Single number rating acc. ASTM C423-09a: **SAA = 0.75**
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	0.80	0.75	0.65



Back of panel laminated with

acoustic fleece AV 2010

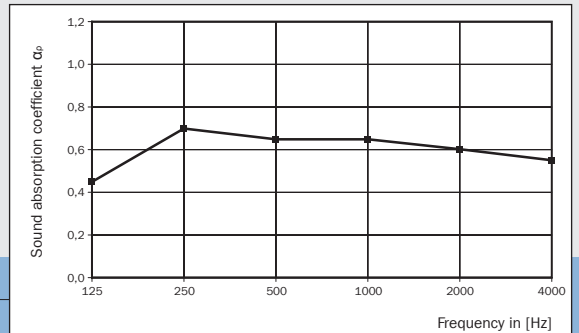
Sound absorption $\alpha_w = 0.65$ (L)

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

Single number rating acc. ASTM C423-09a: **SAA = 0.65**
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	0.65	0.60	0.55



Back of panel laminated with

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

Sound absorption $\alpha_w = 0.75$

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

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

Ceiling void: E-400 (400 mm)

Frequency in [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.50	0.65	0.70	0.85	0.75	0.70

