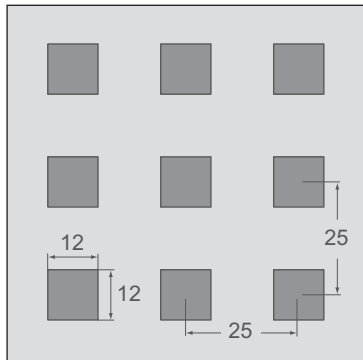


# Ceiling Tiles

Product data sheet 233

Sound absorption 200 mm / 400 mm

## Ceiling Tile 12/25Q (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:  $7.95 - 8.29 \text{ kg/m}^2 (*)$   
 Perforated area:  $17.07 - 20.47 \% (*)$   
 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**

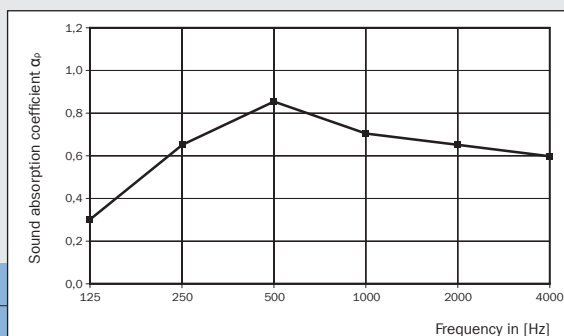
Sound absorption  $\alpha_w = 0.70$

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

Single number rating acc. ASTM C423-09a: **SAA = 0.71**  
**NRC = 0.70**

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 | 0.85 | 0.70  | 0.65  | 0.60  |



Back of panel laminated with

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

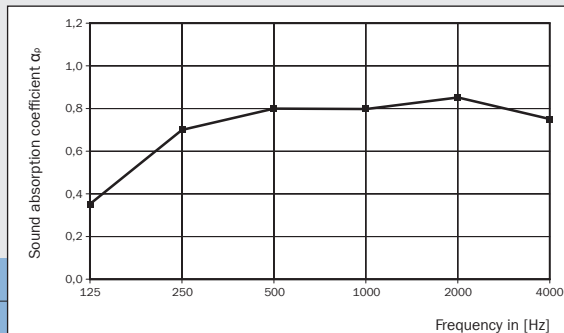
Sound absorption  $\alpha_w = 0.85$

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

Single number rating acc. ASTM C423-09a: **SAA = 0.77**  
**NRC = 0.75**

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 | 0.70 | 0.80 | 0.80  | 0.85  | 0.75  |



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

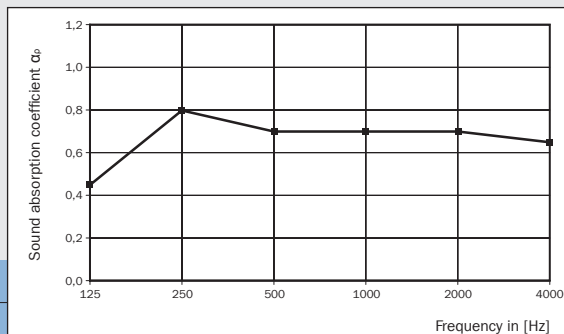
Sound absorption  $\alpha_w = 0.70 \text{ (L)}$

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

Single number rating acc. ASTM C423-09a: **SAA = 0.69**  
**NRC = 0.70**

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 | 0.80 | 0.70 | 0.70  | 0.70  | 0.65  |



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-400 (400 mm)

| Frequency in [Hz]                       | 125  | 250  | 500  | 1,000 | 2,000 | 4,000 |
|-----------------------------------------|------|------|------|-------|-------|-------|
| Sound absorption coefficient $\alpha_p$ | 0.50 | 0.65 | 0.70 | 0.85  | 0.85  | 0.75  |

