

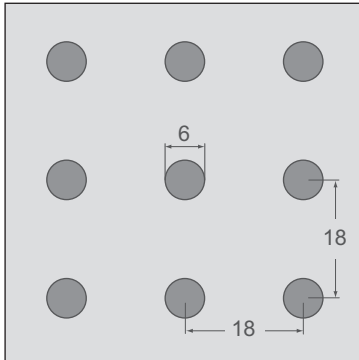
# Acoustic Design Boards

## Product Data Sheet 120

### Sound Absorption



#### Acoustic Design Board 6/18R (round)



- Sound Absorption Value defined in accordance with DIN EN ISO 354
- Sound Absorption evaluated in accordance with DIN EN ISO 11654

Thickness of the Board:

$d = 12,5 \text{ mm}$

Density:

$9,10 \text{ kg/m}^2$

Perforated Area:

$8,7 \%$

Building Material Classification according DIN 4102: A2, "non combustible"

Fire performance according DIN EN 13501:

A2-s1, d0

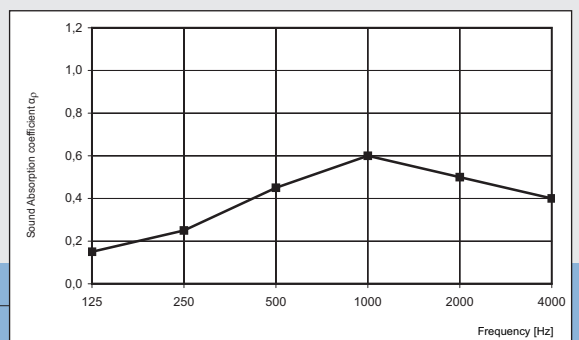
Back of tile laminated with  
**Acoustic fleece AV 2010**

Sound Absorption  $\alpha_w = 0,50$

Sound Absorbing Classification **D** (absorbing)

**Ceiling Void: 65 mm**

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient $\alpha_p$	0,15	0,25	0,45	0,60	0,50	0,40



Back of tile laminated with  
**Acoustic fleece AV 2010 +**

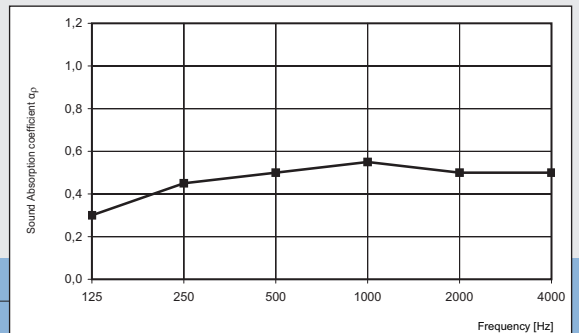
**Glass wool sound protection board SSP 1, 30 mm**

Sound Absorption  $\alpha_w = 0,55$

Sound Absorbing Classification **D** (absorbing)

**Ceiling Void: 65 mm**

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient $\alpha_p$	0,30	0,45	0,50	0,55	0,50	0,50



Back of tile laminated with  
**Acoustic fleece AV 2010**

Sound Absorption  $\alpha_w = 0,55$

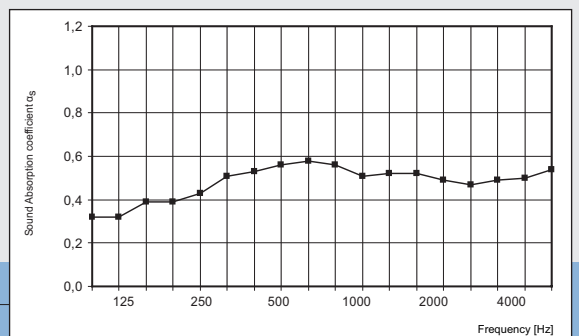
Sound Absorbing Classification **D** (absorbing)

Single number rating acc. ASTM C 423: SAA = 0,51

Classification acc. ASTM E 1264: NRC = 0,50

**Ceiling Void: 200 mm**

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient $\alpha_s$	0,32	0,43	0,56	0,51	0,49	0,50



Back of tile 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 = 0,53

Classification acc. ASTM E 1264: NRC = 0,55

**Ceiling Void: 200 mm**

Frequency in [Hz]	125	250	500	1000	2000	4000
Sound Absorption coefficient $\alpha_s$	0,36	0,47	0,55	0,55	0,54	0,54

