

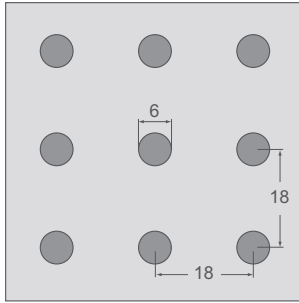
Acoustics and Sound Absorption



Design and Acoustics *Brought into Harmony*

Sound Absorption Values

Iftode Universal SRL Galati, bd.G.Cosbuc nr.350; 0236.325.382; office350@universalconstruct.ro, www.universalconstruct.ro



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

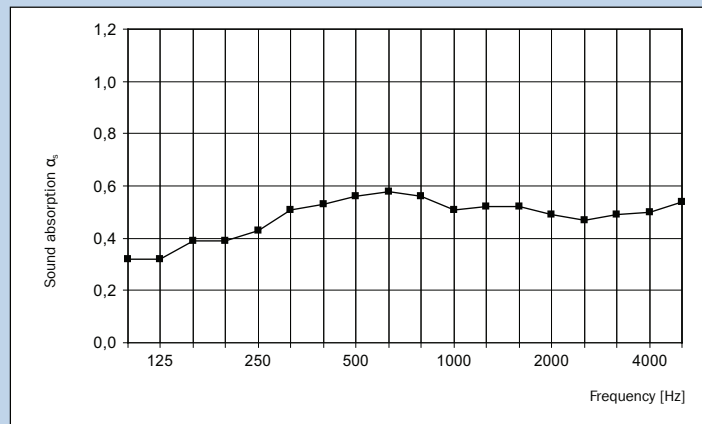
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 9.10 kg/m^2
 Perforated area: 8.7%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.55$
 sound absorption class **D**
 (absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.51
 Classification as per ASTM E 1264:
 NRC = 0.50

Air gap: 200 mm



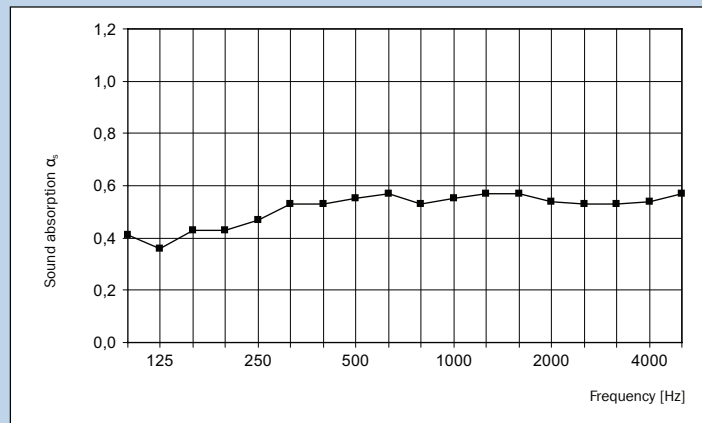
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.32	0.43	0.56	0.51	0.49	0.50

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.55$
 sound absorption class **D**
 (absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.53
 Classification as per ASTM E 1264:
 NRC = 0.55

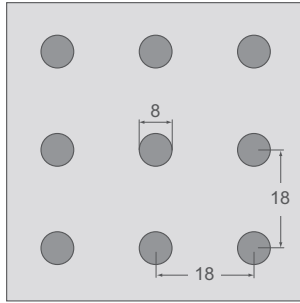
Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.36	0.47	0.55	0.55	0.54	0.54

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

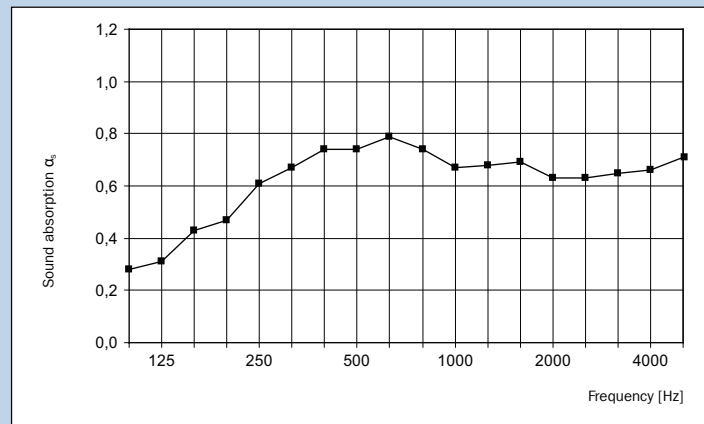
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 8.50 kg/m^2
 Perforated area: 15.5%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.70$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.67
 Classification as per ASTM E 1264:
 NRC = 0.65

Air gap: 200 mm



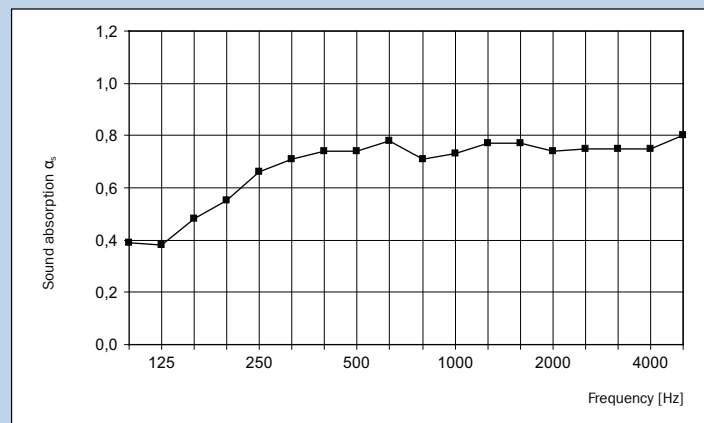
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.31	0.61	0.74	0.67	0.63	0.66

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.75$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.72
 Classification as per ASTM E 1264:
 NRC = 0.70

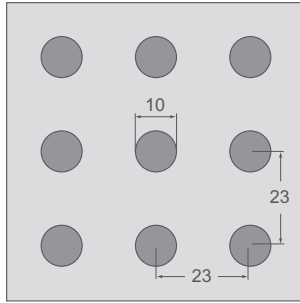
Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.38	0.66	0.74	0.73	0.74	0.75

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

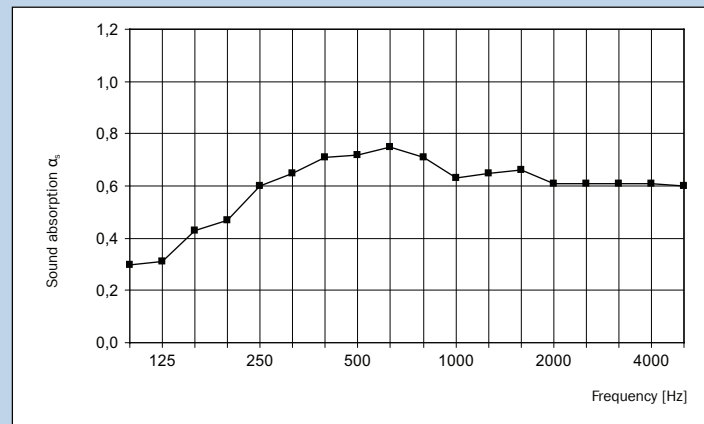
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 8.50 kg/m^2
 Perforated area: 14.8%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.70$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.65
 Classification as per ASTM E 1264:
 NRC = 0.65

Air gap: 200 mm



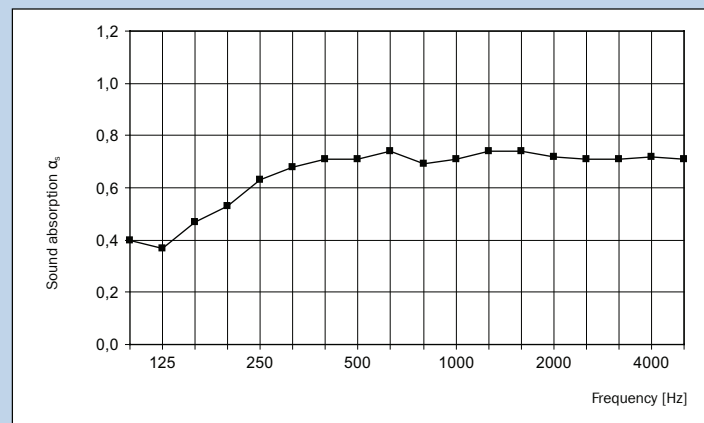
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.31	0.60	0.72	0.63	0.61	0.61

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.70$
 sound absorption class **C**
 (highly absorbing)

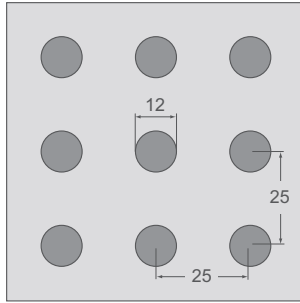
Single number rating as per ASTM C 423:
 SAA = 0.69
 Classification as per ASTM E 1264:
 NRC = 0.70

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.37	0.63	0.71	0.71	0.72	0.72

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

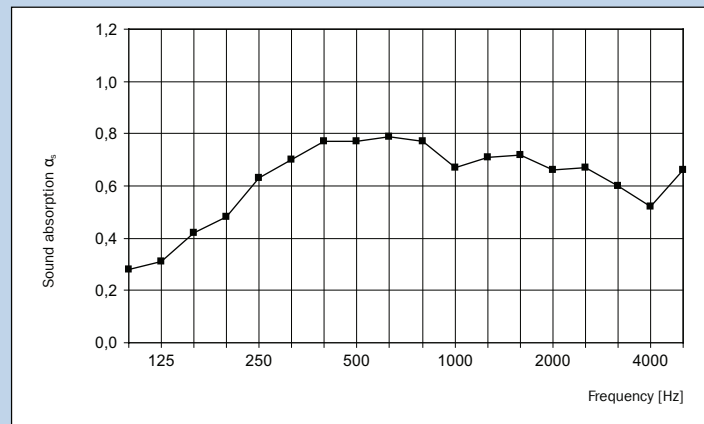
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 8.20 kg/m^2
 Perforated area: 18.1%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.70$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.69
 Classification as per ASTM E 1264:
 NRC = 0.70

Air gap: 200 mm



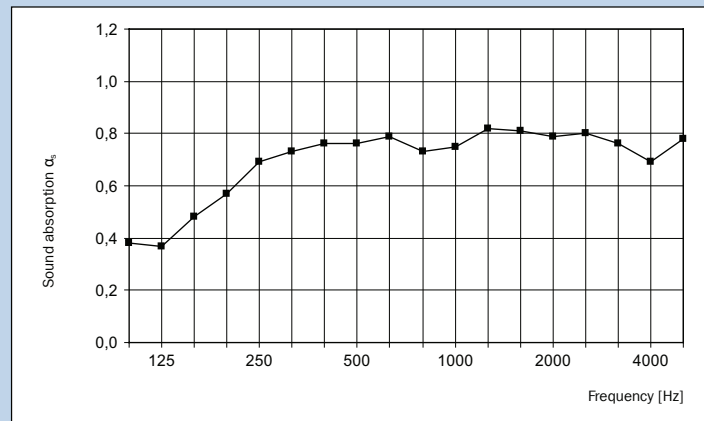
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.31	0.63	0.77	0.67	0.66	0.52

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.80$
 sound absorption class **B**
 (extremely absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.75
 Classification as per ASTM E 1264:
 NRC = 0.75

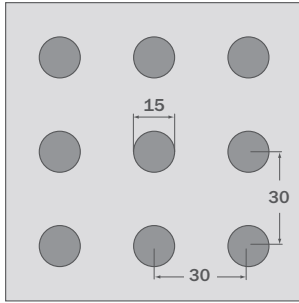
Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.37	0.69	0.76	0.75	0.79	0.69

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

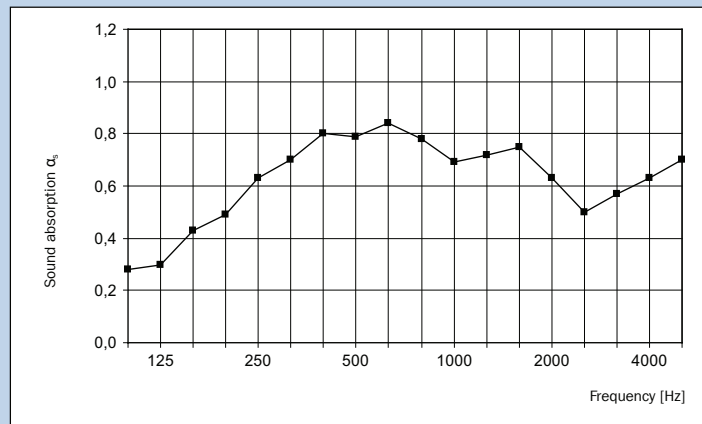
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 8.00 kg/m^2
 Perforated area: 19.6%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.75$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.69
 Classification as per ASTM E 1264:
 NRC = 0.70

Air gap: 200 mm



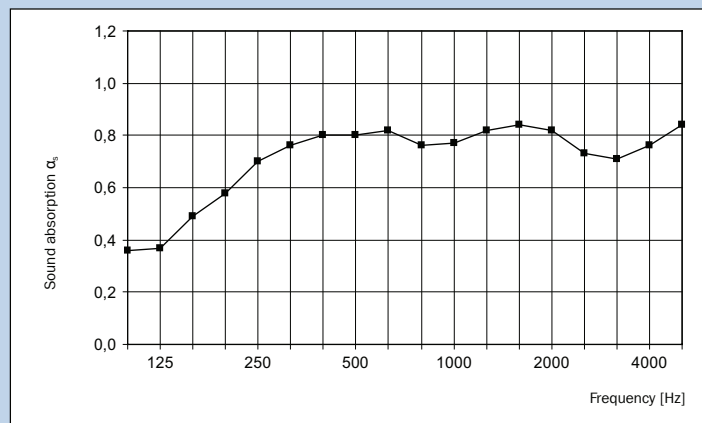
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.30	0.63	0.79	0.69	0.63	0.63

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.80$
 sound absorption class **B**
 (extremely absorbing)

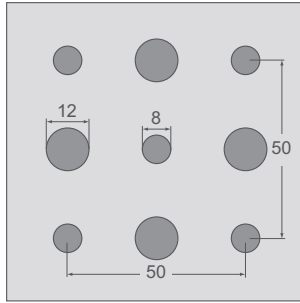
Single number rating as per ASTM C 423:
 SAA = 0.77
 Classification as per ASTM E 1264:
 NRC = 0.75

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.37	0.70	0.80	0.77	0.82	0.76

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

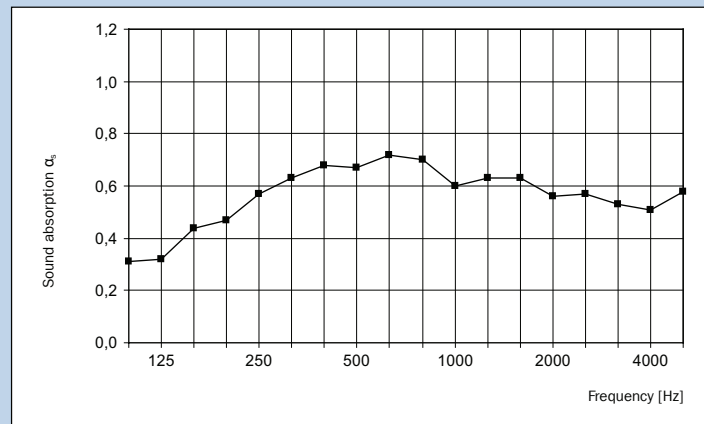
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 8.70 kg/m^2
 Perforated area: 13.1%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.65$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.62
 Classification as per ASTM E 1264:
 NRC = 0.60

Air gap: 200 mm



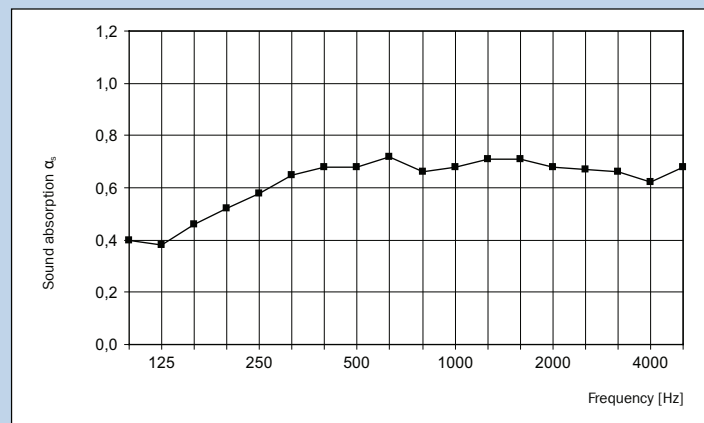
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.32	0.57	0.67	0.60	0.56	0.51

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.70$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.66
 Classification as per ASTM E 1264:
 NRC = 0.65

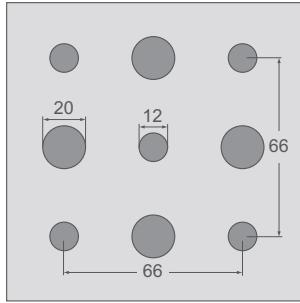
Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.38	0.58	0.68	0.68	0.68	0.62

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

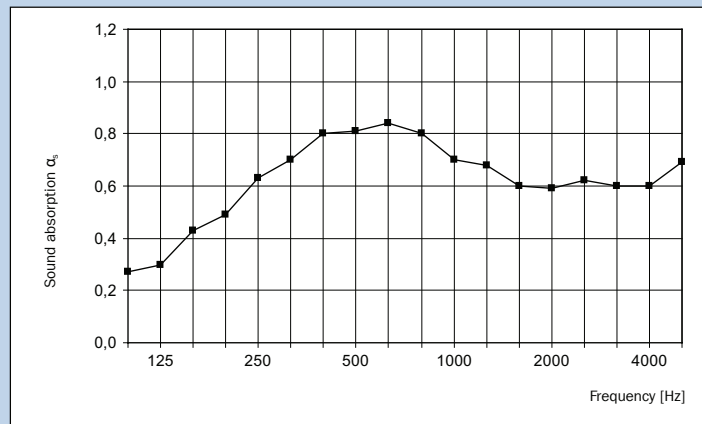
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 8.00 kg/m^2
 Perforated area: 19.6%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.70$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.69
 Classification as per ASTM E 1264:
 NRC = 0.70

Air gap: 200 mm



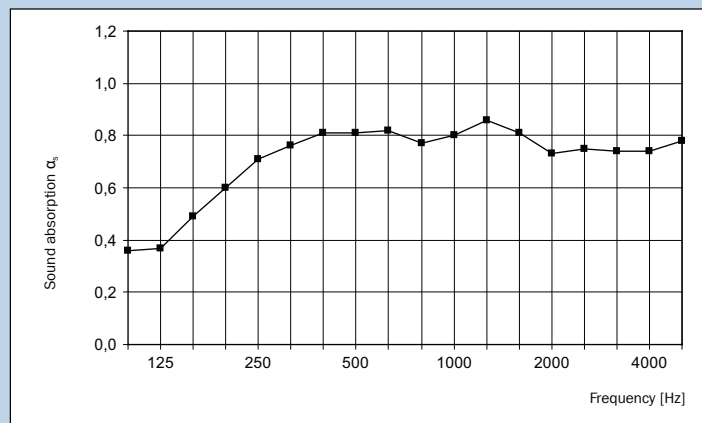
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.30	0.63	0.81	0.70	0.59	0.60

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.80$
 sound absorption class **B**
 (extremely absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.77
 Classification as per ASTM E 1264:
 NRC = 0.75

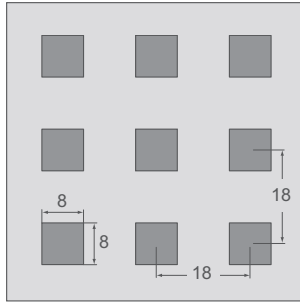
Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.37	0.71	0.81	0.80	0.73	0.74

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

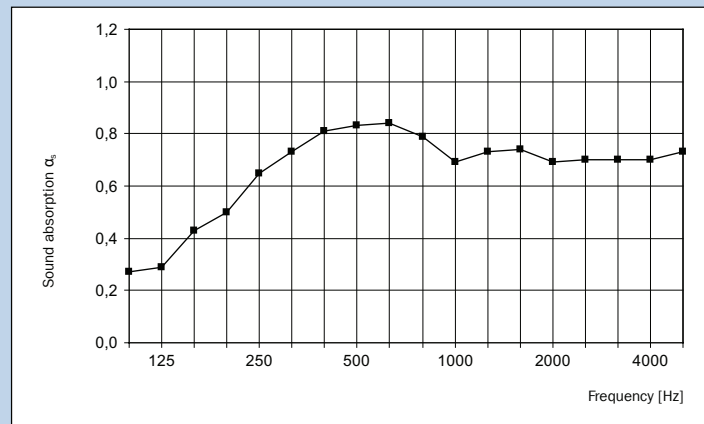
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 8.00 kg/m^2
 Perforated area: 19.8%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.75$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.72
 Classification as per ASTM E 1264:
 NRC = 0.70

Air gap: 200 mm

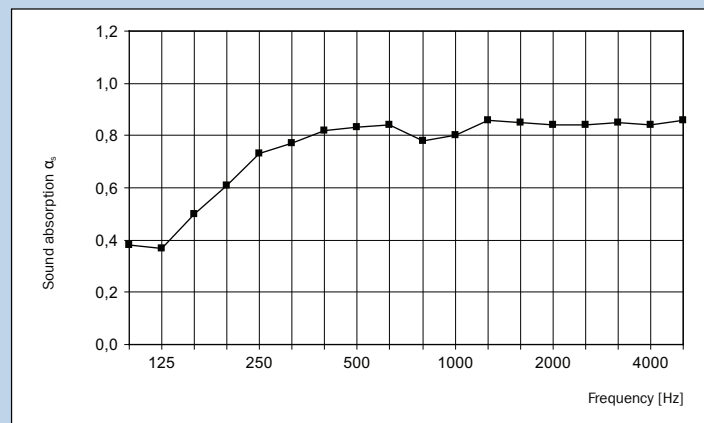


Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.85$
 sound absorption class **B**
 (extremely absorbing)

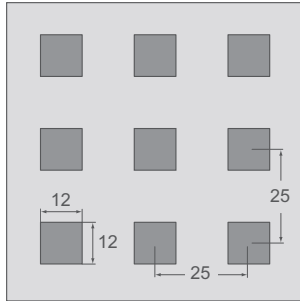
Single number rating as per ASTM C 423:
 SAA = 0.80
 Classification as per ASTM E 1264:
 NRC = 0.80

Air gap: 200 mm



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

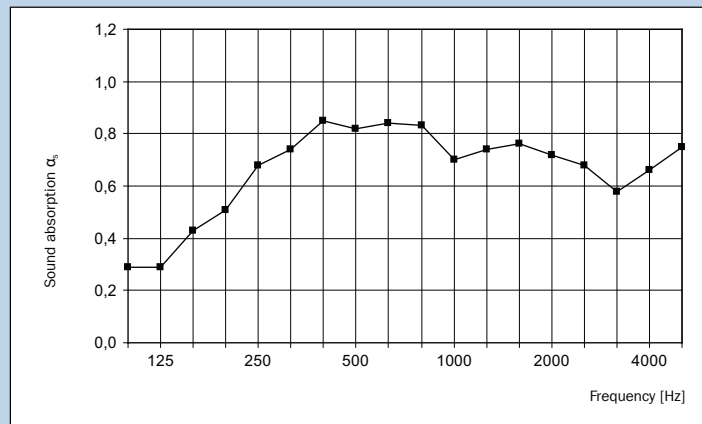
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 7.70 kg/m^2
 Perforated area: 23.0%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.75$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.74
 Classification as per ASTM E 1264:
 NRC = 0.75

Air gap: 200 mm



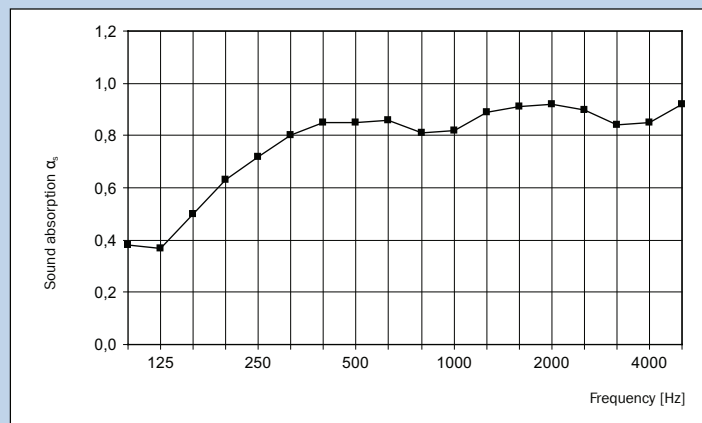
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.29	0.68	0.82	0.70	0.72	0.66

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.90$
 sound absorption class **A**
 (extremely absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.83
 Classification as per ASTM E 1264:
 NRC = 0.85

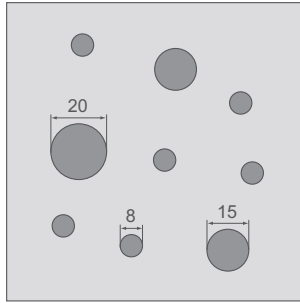
Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.37	0.72	0.85	0.82	0.92	0.85

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

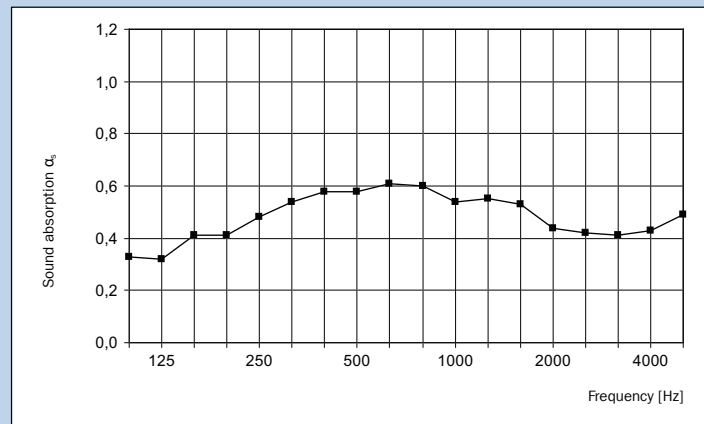
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 9.10 kg/m^2
 Perforated area: 9.5%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.55$
 sound absorption class **D**
 (absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.52
 Classification as per ASTM E 1264:
 NRC = 0.50

Air gap: 200 mm



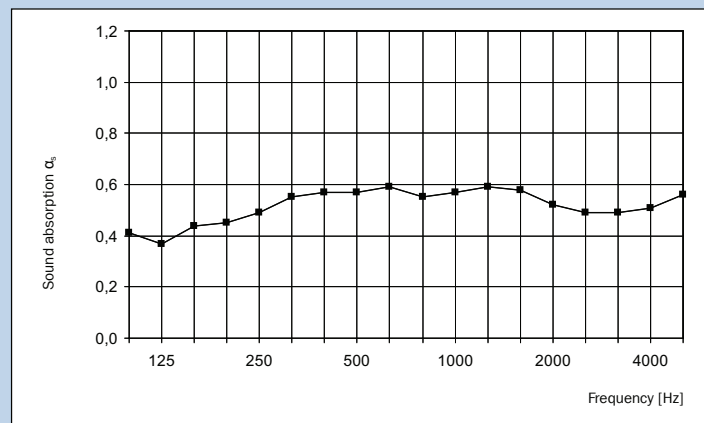
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.32	0.48	0.58	0.54	0.44	0.43

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.60$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.54
 Classification as per ASTM E 1264:
 NRC = 0.55

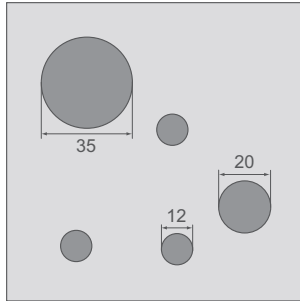
Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.37	0.49	0.57	0.57	0.52	0.51

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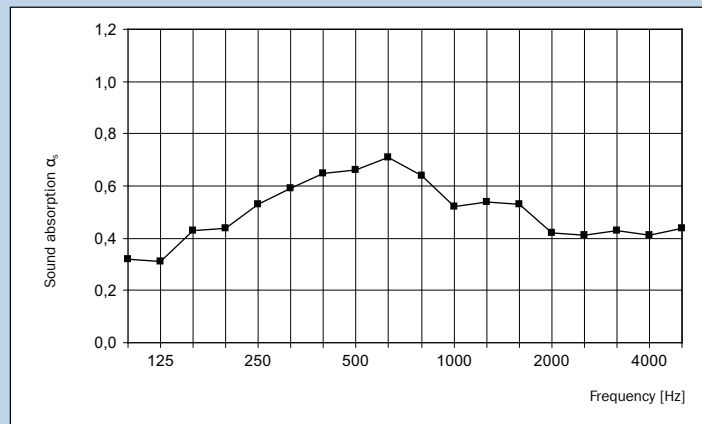
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 8.90 kg/m^2
 Perforated area: 11.0%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.55$
 sound absorption class **D**
 (absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.55
 Classification as per ASTM E 1264:
 NRC = 0.55

Air gap: 200 mm



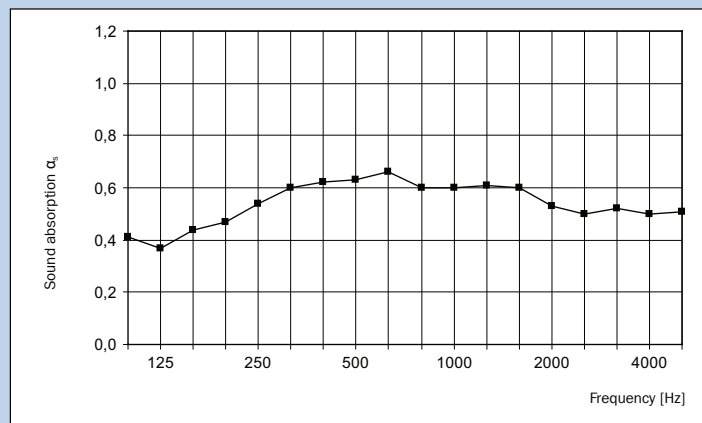
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.31	0.53	0.66	0.52	0.42	0.41

Back of panel laminated with
Acoustic fleece AV 2010
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.60$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.58
 Classification as per ASTM E 1264:
 NRC = 0.55

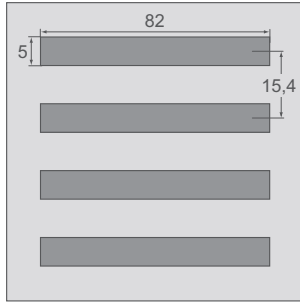
Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.37	0.54	0.63	0.60	0.53	0.50

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Iftode Universal SRL Galati, bd.G.Cosbuc nr.350; 0236.325.382; office350@universalconstruct.ro, www.universalconstruct.ro



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

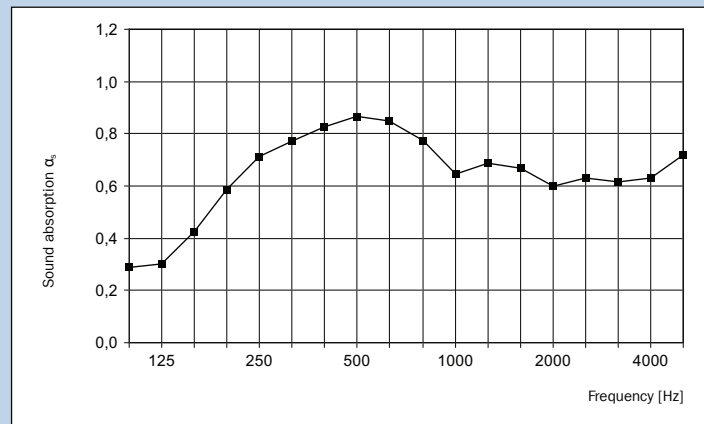
Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 7.9 kg/m^2
 Perforated area: 21.5%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.70$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.71
 Classification as per ASTM E 1264:
 NRC = 0.70

Air gap: 200 mm



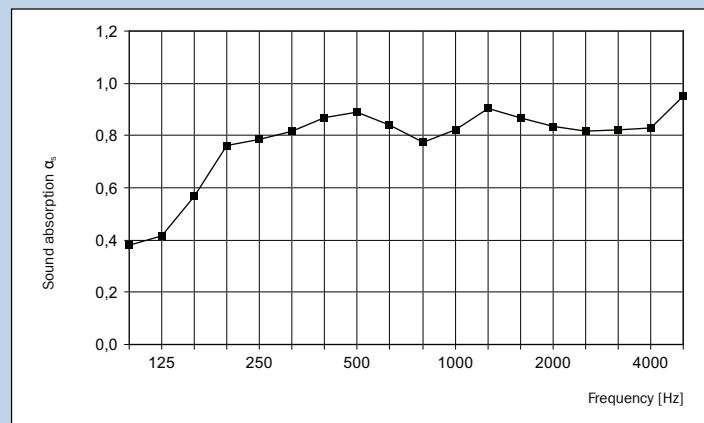
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.29	0.69	0.86	0.65	0.60	0.63

Back of panel laminated with
Acoustic fleece AV 2010 +
 backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.85$
 sound absorption class **B**
 (extremely absorbing)

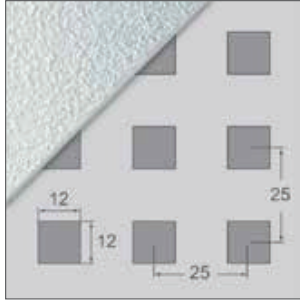
Single number rating as per ASTM C 423:
 SAA = 0.83
 Classification as per ASTM E 1264:
 NRC = 0.85

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.42	0.78	0.88	0.82	0.85	0.83

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

Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 7.7 kg/m^2
 Perforated area: 22.9%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

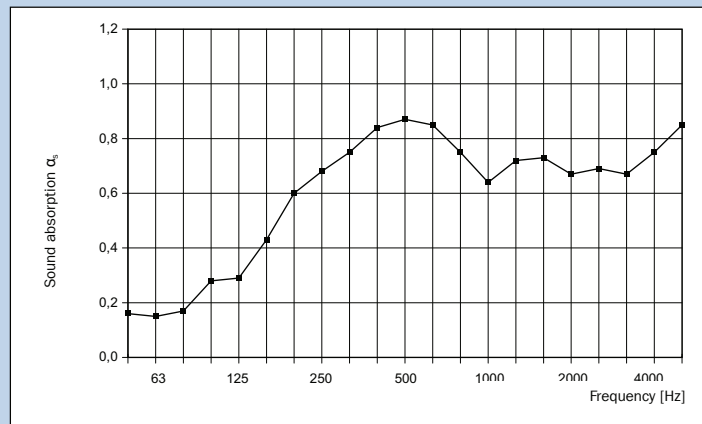
System structure: wallpapered with plaster base fleece on site and finished with VoglToptec® acoustic plaster Nano SF

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.75$
 sound absorption class **C**
 (highly absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.73
 Classification as per ASTM E 1264:
 NRC = 0.70

Air gap: 200 mm



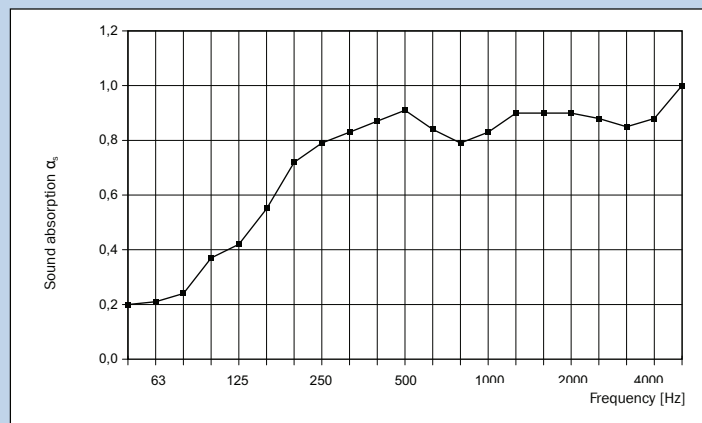
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.29	0.68	0.87	0.64	0.67	0.75

Back of panel laminated with
Acoustic fleece AV 2010 +
Mineral wool panel SSP 1, 30 mm

Rated sound absorption $\alpha_w = 0.90$
 sound absorption class **A**
 (extremely absorbing)

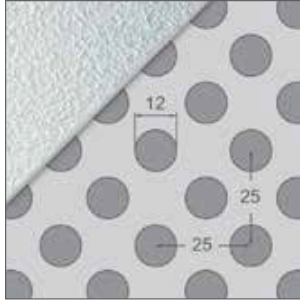
Single number rating as per ASTM C 423:
 SAA = 0.85
 Classification as per ASTM E 1264:
 NRC = 0.85

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.42	0.79	0.91	0.83	0.90	0.88

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

Panel thickness: $t_h = 12.5 \text{ mm}$
 Mass per unit area: 6.5 kg/m^2
 Perforated area: 35.3%
 Material class as per DIN 4102: A2, "non-inflammable"
 Fire behaviour as per DIN EN 13501: A2-s1, d0

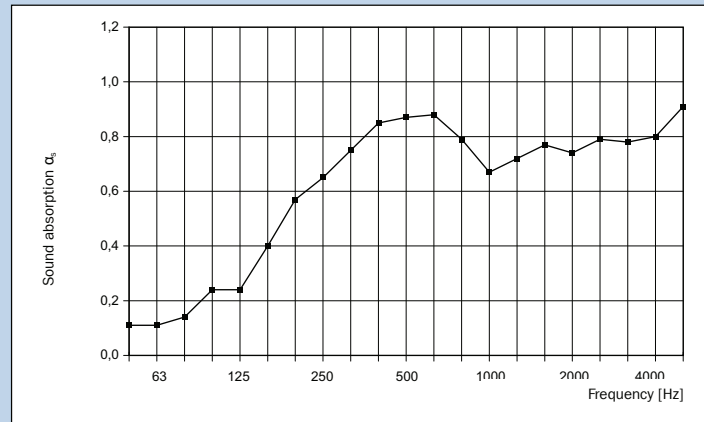
System structure: wallpapered with plaster base fleece on site and finished with VoglToptec® acoustic plaster Nano SF

Back of panel laminated with
Acoustic fleece AV 2010

Rated sound absorption $\alpha_w = 0.80$
 sound absorption class **B**
 (extremely absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.75
 Classification as per ASTM E 1264:
 NRC = 0.75

Air gap: 200 mm



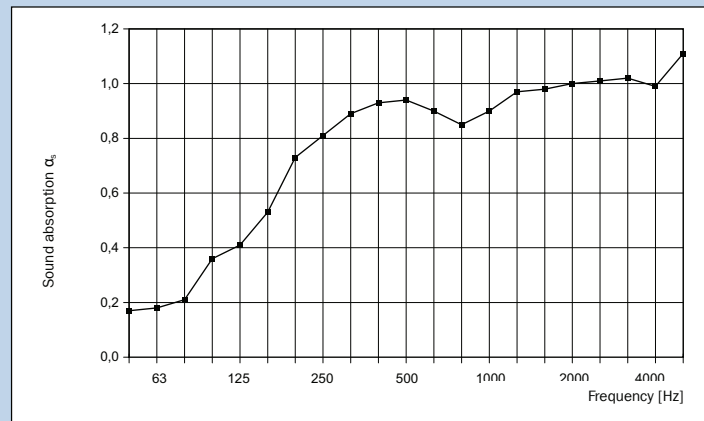
Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.24	0.65	0.87	0.67	0.74	0.80

Back of panel laminated with
**Acoustic fleece AV 2010 +
 Mineral wool panel SSP 1, 30 mm**

Rated sound absorption $\alpha_w = 0.95$
 sound absorption class **A**
 (extremely absorbing)

Single number rating as per ASTM C 423:
 SAA = 0.91
 Classification as per ASTM E 1264:
 NRC = 0.90

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1000	2000	4000
Sound absorption coefficient α_s	0.41	0.81	0.94	0.90	1.00	0.99

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