# Sound absorption coefficient according to UNE-EN ISO 354, UNE-EN ISO 11654, ASTM C 423

Determination of sound absorption coefficients

Manufacturer : Skum Acoustics SL
Brand : Skum Acoustics

Product ref. : KINO FR
Date : 23.07.2018

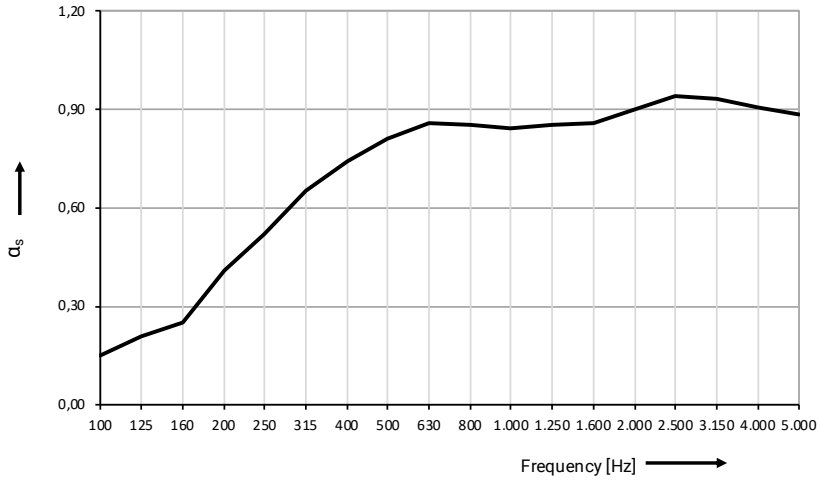
Description of the acoustic element :

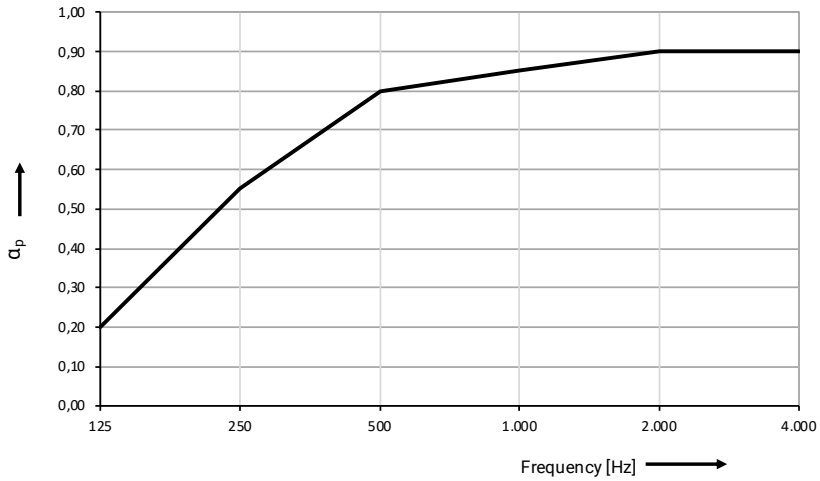
Material : BTECT·W (melamine resin)
Thickness [mm] : 60
Notes : -

Format [mm] : 600 x 600
Color : White - RAL 9016

Evaluation : Reverberation time
*Other values obtained by engineering method*

| Frequency [Hz] | Absorption coeff. $\alpha_s$ | Equiv. Area A |
|---|---|---|
| 100 | 0,15 | 1,51 |
| 125 | 0,21 | 2,12 |
| 160 | 0,25 | 2,52 |
| 200 | 0,41 | 4,13 |
| 250 | 0,52 | 5,24 |
| 315 | 0,65 | 6,55 |
| 400 | 0,74 | 7,46 |
| 500 | 0,81 | 8,16 |
| 630 | 0,86 | 8,67 |
| 800 | 0,85 | 8,57 |
| 1.000 | 0,84 | 8,47 |
| 1.250 | 0,85 | 8,57 |
| 1.600 | 0,86 | 8,67 |
| 2.000 | 0,90 | 9,07 |
| 2.500 | 0,94 | 9,48 |
| 3.150 | 0,93 | 9,37 |
| 4.000 | 0,91 | 9,12 |
| 5.000 | 0,89 | 8,92 |




| | |
|---|---|
| **NRC** | **0,75** |
| **SAA** | **0,77** |
| **$\alpha_w$** | **0,80** |
| **Sound Absorption Class** accord. to UNE-EN ISO 11654 | **B** |
| Surface [$m^2$] | 10,08 |
| Installation method | E000 |
| Density [$kg/m^3$] accord. to ISO 845 | 9 (+2/-1) |
| Fire behaviour accord. to UNE 53127 | B1 |
| Fire behaviour accord. to EN ISO 13501 | B - s1, d0 |

Practical Sound absorption coefficient $\alpha_p$ according to UNE-EN ISO 11654

| Freq. [Hz] | 125 | 250 | 500 | 1.000 | 2.000 | 4.000 |
|---|---|---|---|---|---|---|
| $\alpha_p$ | 0,20 | 0,55 | 0,80 | 0,85 | 0,90 | 0,90 |


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