

**SOUND ABSORPTION COEFFICIENT  $\alpha_s$   
OF SUSPENDED WALL PANELS**

Test 12  
Date 01/10/14  
Station ALPHA  
AA45

**REQUESTER, MANUFACTURER** SAINT GOBAIN ECOPHON

**NAME** Akusto Wall C/Super G 40 mm

**FITNESS FOR PURPOSE** Unchecked

**STANDARDS** EN ISO 354, EN ISO 11654, prEN 16487

**CONFIGURATION** 50 mm overall depth of construction

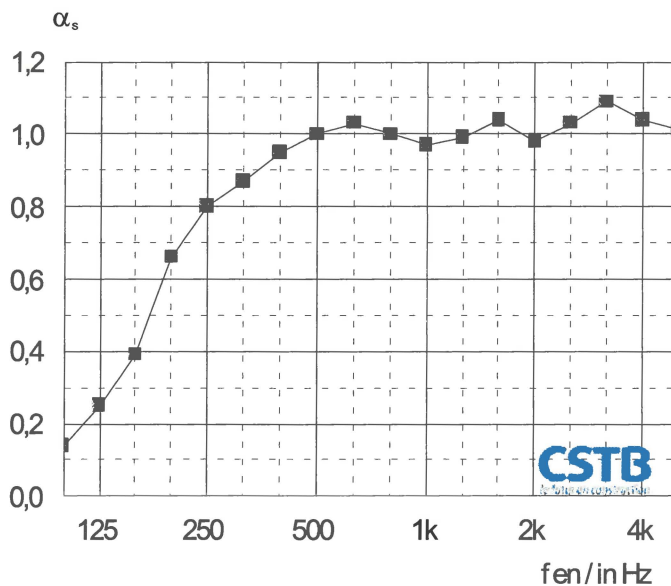
**MAIN CHARACTERISTICS**

Dimensions in mm : 3000 x 3600  
Area in m<sup>2</sup> : 10.8  
Thickness in mm : 40  
Mass per unit area in kg/m<sup>2</sup>: 4.6  
Mounting type : E-50

**MEASUREMENT CONDITIONS**

**Empty room:** Temperature: 21.0°C  
Relative humidity: 67%  
**Room with sample:** Temperature: 21.0°C  
Relative humidity: 67%

**RESULTS**



| f    | $\alpha_s$ |
|------|------------|
| 100  | 0,14       |
| 125  | 0,25       |
| 160  | 0,39       |
| 200  | 0,66       |
| 250  | 0,80       |
| 315  | 0,87       |
| 400  | 0,95       |
| 500  | 1,00       |
| 630  | 1,03       |
| 800  | 1,00       |
| 1000 | 0,97       |
| 1250 | 0,99       |
| 1600 | 1,04       |
| 2000 | 0,98       |
| 2500 | 1,03       |
| 3150 | 1,09       |
| 4000 | 1,04       |
| 5000 | 1,01       |
| Hz   |            |

$\alpha_w = 1,00$   
classement / class: A

*It is strongly recommended to use this single number rating in combination with the complete sound absorption coefficient curve.*