

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

Test 8  
Date 08/07/14  
Station ALPHA  
AA45

**REQUESTER, MANUFACTURER** SAINT GOBAIN ECOPHON  
**NAME** Master Ds 40 mm  
**FITNESS FOR PURPOSE** Unchecked  
**STANDARDS** EN ISO 354, EN ISO 11654, prEN 16487  
**CONFIGURATION** 95 mm overall depth of construction

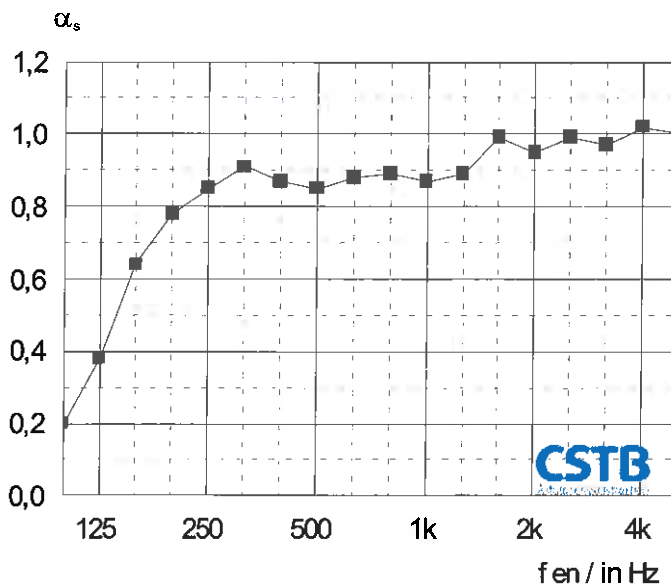
**MAIN CHARACTERISTICS**

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>: 4.2  
Mounting type : E-95

**MEASUREMENT CONDITIONS**

**Empty room:** Temperature: 22.5°C  
Relative humidity: 58%  
**Room with sample:** Temperature: 22.5°C  
Relative humidity: 57%

**RESULTS**



| f    | $\alpha_s$ |
|------|------------|
| 100  | 0,20       |
| 125  | 0,38       |
| 160  | 0,64       |
| 200  | 0,78       |
| 250  | 0,85       |
| 315  | 0,91       |
| 400  | 0,87       |
| 500  | 0,85       |
| 630  | 0,88       |
| 800  | 0,89       |
| 1000 | 0,87       |
| 1250 | 0,89       |
| 1600 | 0,99       |
| 2000 | 0,95       |
| 2500 | 0,99       |
| 3150 | 0,97       |
| 4000 | 1,02       |
| 5000 | 1,00       |
| Hz   |            |

$\alpha_w = 0,90$   
classement / class: A

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