

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

Test 12  
Date 19/05/14  
Station ALPHA  
AA45

**REQUESTER, MANUFACTURER** SAINT GOBAIN ECOPHON  
**NAME** Master E 40 mm  
**FITNESS FOR PURPOSE** Unchecked  
**STANDARDS** EN ISO 354, EN ISO 11654, prEN 16487  
**CONFIGURATION** 200 mm overall depth of construction

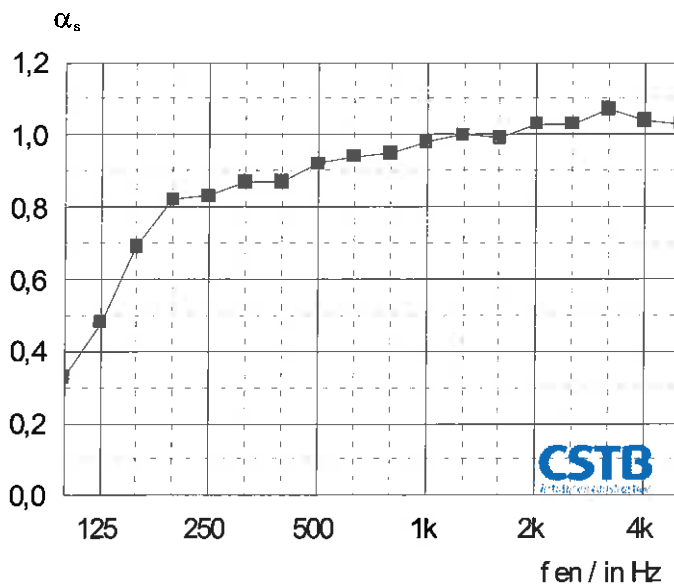
**MAIN CHARACTERISTICS**

Dimensions in mm : 2915 X 3500  
Area in m<sup>2</sup> : 10.2  
Thickness in mm : 40  
Mass per unit area in kg/m<sup>2</sup>: 3.7  
Mounting type : E-200

**MEASUREMENT CONDITIONS**

**Empty room:** Temperature: 19.5°C  
Relative humidity: 67%  
**Room with sample:** Temperature: 20.5°C  
Relative humidity: 58%

**RESULTS**



f	$\alpha_s$
100	0,33
125	0,48
160	0,69
200	0,82
250	0,83
315	0,87
400	0,87
500	0,92
630	0,94
800	0,95
1000	0,98
1250	1,00
1600	0,99
2000	1,03
2500	1,03
3150	1,07
4000	1,04
5000	1,03
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.*