

**SOUND ABSORPTION COEFFICIENT  $\alpha_s$   
OF BAFFLES**

Test 11  
Date 23/10/14  
Station ALPHA

AA45

**REQUESTER, MANUFACTURER** SAINT GOBAIN ECOPHON  
**NAME** Solo Baffle 40 mm  
**FITNESS FOR PURPOSE** Unchecked  
**STANDARDS** EN ISO 354, EN ISO 11654, prEN 16487  
**CONFIGURATION** 200 mm overall depth of construction, oriented in rows cc 300 mm

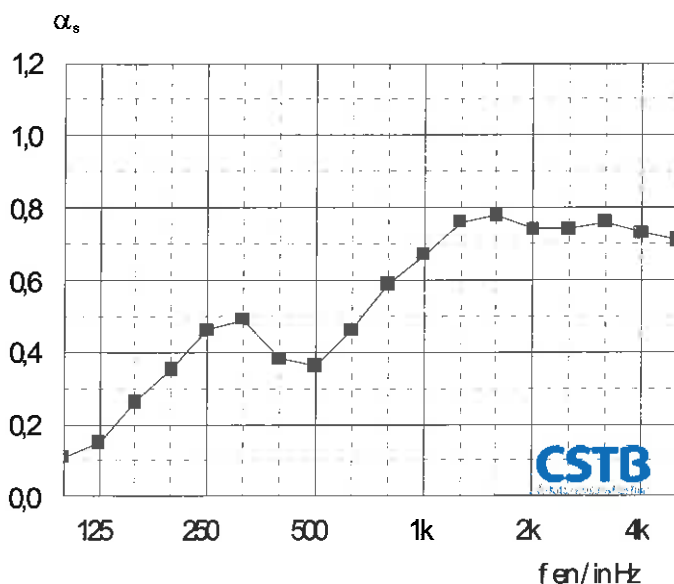
**MAIN CHARACTERISTICS**

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> : 4.5  
Mounting type : J

**MEASUREMENT CONDITIONS**

**Empty room:** Temperature: 22.0°C  
Relative humidity: 53%  
**Room with sample:** Temperature: 22.5°C  
Relative humidity: 53%

**RESULTS**



f	$\alpha_s$
100	0,11
125	0,15
160	0,26
200	0,35
250	0,46
315	0,49
400	0,38
500	0,36
630	0,46
800	0,59
1000	0,67
1250	0,76
1600	0,78
2000	0,74
2500	0,74
3150	0,76
4000	0,73
5000	0,71
Hz	

$\alpha_w = 0,50(H) *$   
classement / class: D

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

\*\*The sound absorption coefficient is given as information because the result according to standard EN ISO 354 and test code prEN 16487 on annex B.7 is the equivalent sound absorption area.