

**PRACTICAL SOUND ABSORPTION COEFFICIENT  $\alpha_p$   
OF SUSPENDED CEILING PANELS**

Test 2  
Date 12/12/17  
Station ALPHA

AA45

**REQUESTER. MANUFACTURER** SAINT-GOBAIN ECOPHON  
**NAME** Sombra A 15 mm  
**CONFIGURATION** 50 mm overall depth of construction  
**STANDARDS** EN ISO 354, EN ISO 11654, EN 16487  
**FITNESS FOR PURPOSE** Unchecked

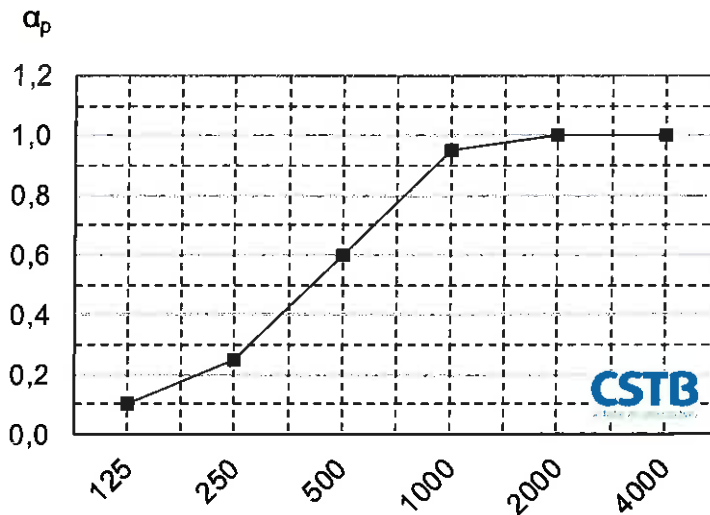
**MAIN CHARACTERISTICS**

Dimensions in mm : 3573 x 2978  
Area in m<sup>2</sup> : 10.64  
Thickness in mm : 15  
Mass per unit area in kg/m<sup>2</sup>: 1.00  
Mounting type : E-50

**MEASUREMENT CONDITIONS**

**Empty room:** Temperature: 21 °C  
Relative humidity: 50 %  
**Room with sample:** Temperature: 21 °C  
Relative humidity: 48 %

**RESULTS**



f	$\alpha_s$	$\alpha_p$
100	0,08	
125	0,07	0,10
160	0,11	
200	0,13	
250	0,24	0,25
315	0,33	
400	0,48	
500	0,59	0,60
630	0,74	
800	0,90	
1000	0,96	0,95
1250	1,00	
1600	1,06	
2000	1,05	1,00
2500	1,05	
3150	1,05	
4000	0,99	1,00
5000	1,09	
Hz		

$\alpha_w = 0,55$  (MH)\*  
classement / class D

NRC = 0,70  
SAA = 0,71

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