

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

Test 6  
Date 02/03/17  
Station ALPHA

AA45

**REQUESTER, MANUFACTURER** SAINT-GOBAIN ECOPHON  
**NAME** Master Rigid A + Extra Bass  
**CONFIGURATION** Total height of construction: 200mm  
**STANDARDS** EN ISO 354, EN ISO 11654, EN 16487  
**FITNESS FOR PURPOSE** Unchecked

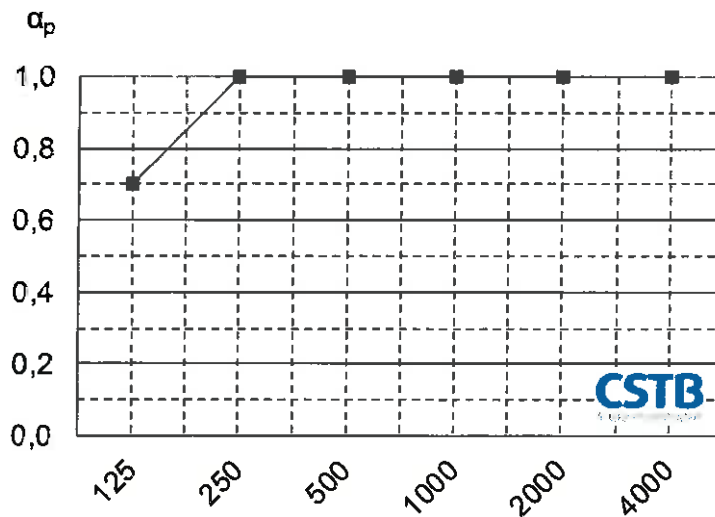
**MAIN CHARACTERISTICS**

**MEASUREMENT CONDITIONS**

Dimensions in mm : 3500 x 2915  
Area in m<sup>2</sup> : 10.2  
Thickness in mm : 20 (panels) + 50 (filling)  
Mass per unit area in kg/m<sup>2</sup>: 1.5 (panels) + 1 (filling)  
Mounting type : E-200

**Empty room:** Temperature: 19.5°C  
**Room with sample:** Temperature: 21°C  
Relative humidity: 62% Relative humidity: 51%

**RESULTSON**



f	$\alpha_s$	$\alpha_p$
100	0,38	
125	0,72	0,70
160	1,01	
200	0,91	
250	1,08	1,00
315	0,98	
400	0,99	
500	1,00	1,00
630	0,99	
800	0,94	
1000	1,00	1,00
1250	1,02	
1600	1,01	
2000	1,05	1,00
2500	1,06	
3150	1,06	
4000	1,09	1,00
5000	1,05	
Hz		

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

NRC = 1,00  
SAA = 1,00