

**PRACTICAL SOUND ABSORPTION COEFFICIENT α_p
OF SUSPENDED CEILING PANELS**

Test 1
Date 12/12/17
Station ALPHA

AA45

REQUESTER. MANUFACTURER SAINT-GOBAIN ECOPHON
NAME Sombra A 15 mm
CONFIGURATION 200 mm overall depth of construction
STANDARDS EN ISO 354, EN ISO 11654, EN 16487
FITNESS FOR PURPOSE Unchecked

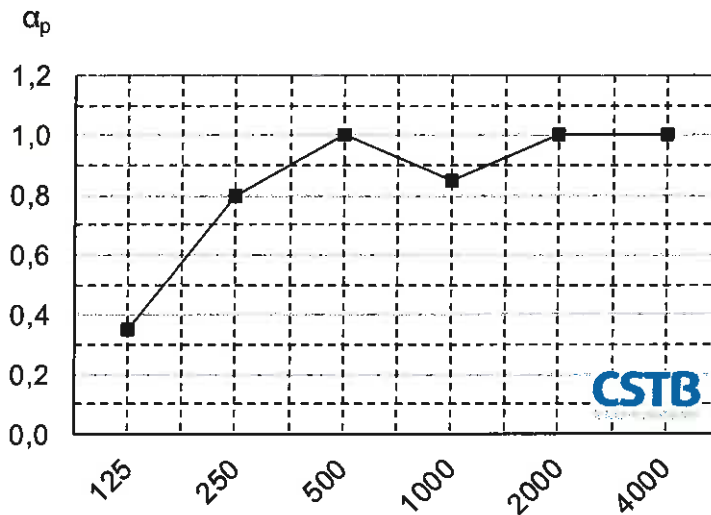
MAIN CHARACTERISTICS

MEASUREMENT CONDITIONS

Dimensions in mm : 3573 x 2978
Area in m² : 10.64
Thickness in mm : 15
Mass per unit area in kg/m²: 1.00
Mounting type : E-200

Empty room: Room with sample:
Temperature: 21 °C Temperature: 21 °C
Relative humidity: 50 % Relative humidity: 51 %

RESULTS



f	α_s	α_p
100	0,25	
125	0,30	0,35
160	0,57	
200	0,63	
250	0,89	0,80
315	0,93	
400	0,99	
500	1,03	1,00
630	0,95	
800	0,87	
1000	0,78	0,85
1250	0,88	
1600	1,01	
2000	0,96	1,00
2500	1,00	
3150	1,04	
4000	1,05	1,00
5000	1,07	
Hz		

$\alpha_w = 0,95$
classement / class A

NRC = 0,90
SAA = 0,91