

**SOUND ABSORPTION COEFFICIENT α_s
OF SUSPENDED CEILING PANELS**

Test 45
Date 30/09/14
Station ALPHA
AA45

REQUESTER, MANUFACTURER SAINT GOBAIN ECOPHON
NAME Master SQ 40 mm
FITNESS FOR PURPOSE Unchecked
STANDARDS EN ISO 354, EN ISO 11654, prEN 16487
CONFIGURATION 43 mm overall depth of construction,

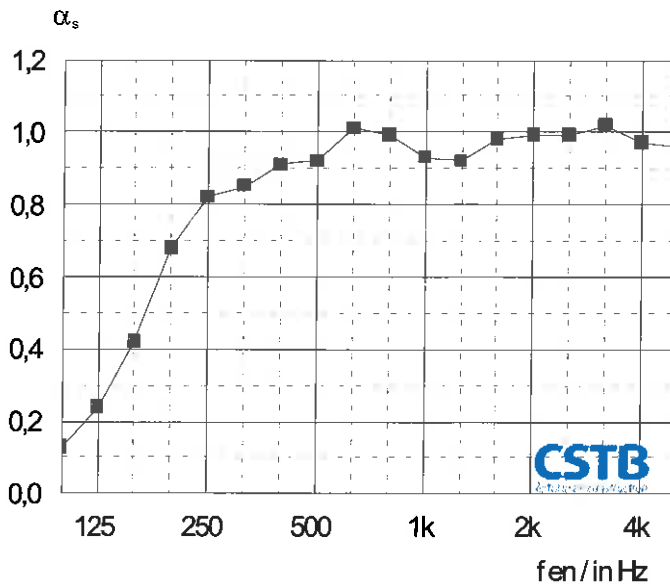
MAIN CHARACTERISTICS

MEASUREMENT CONDITIONS

Dimensions in mm : 2960 x 3550
Area in m² : 10.5
Thickness in mm : 40
Mass per unit area in kg/m²: 4.3
Mounting type : B

Empty room: Room with sample:
Temperature: 20.5°C Temperature: 21.0°C
Relative humidity: 75% Relative humidity: 74%

RESULTS



f	α_s
100	0,13
125	0,24
160	0,42
200	0,68
250	0,82
315	0,85
400	0,91
500	0,92
630	1,01
800	0,99
1000	0,93
1250	0,92
1600	0,98
2000	0,99
2500	0,99
3150	1,02
4000	0,97
5000	0,96
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.