

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

Test 16
Date 30/09/14
Station ALPHA
AA45

REQUESTER, MANUFACTURER SAINT GOBAIN ECOPHON
NAME Master Matrix 40 mm
FITNESS FOR PURPOSE Unchecked
STANDARDS EN ISO 354, EN ISO 11654, prEN 16487
CONFIGURATION 255 mm overall depth of construction

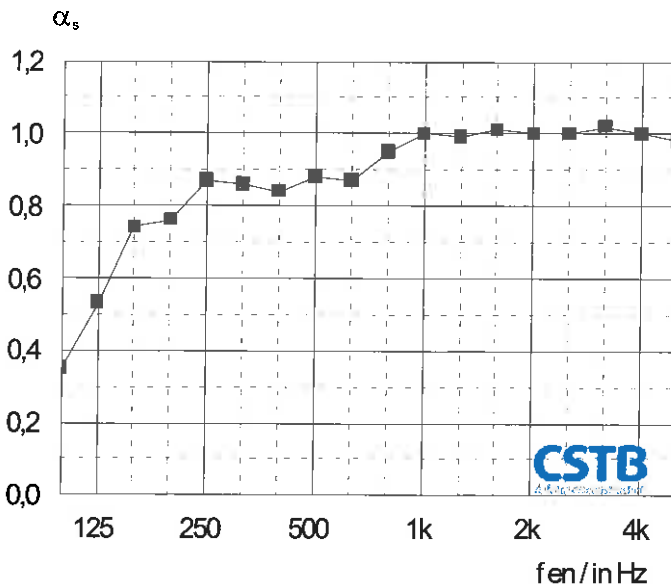
MAIN CHARACTERISTICS

Dimensions in mm : 3000 x 3560
Area in m² : 10.7
Thickness in mm : 40
Mass per unit area in kg/m²: 3.7
Mounting type : E-255

MEASUREMENT CONDITIONS

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

RESULTS



f	α_s
100	0,35
125	0,53
160	0,74
200	0,76
250	0,87
315	0,86
400	0,84
500	0,88
630	0,87
800	0,95
1000	1,00
1250	0,99
1600	1,01
2000	1,00
2500	1,00
3150	1,02
4000	1,00
5000	0,98
Hz	

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

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