

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

Test 27
Date 21/05/14
Station ALPHA
AA45

REQUESTER, MANUFACTURER SAINT GOBAIN ECOPHON
NAME Master Rigid A 20 mm
FITNESS FOR PURPOSE Unchecked
STANDARDS EN ISO 354, EN ISO 11654, prEN 16487
CONFIGURATION 200 mm overall depth of construction, with 2 layers of Ecophon Extra Bass

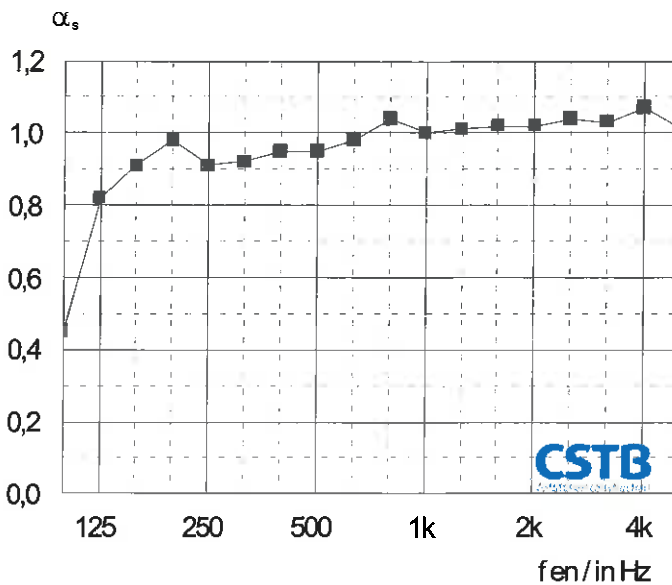
MAIN CHARACTERISTICS

MEASUREMENT CONDITIONS

Dimensions in mm : 2960 x 3550
Area in m² : 10.5
Thickness in mm : 20
Mass per unit area in kg/m²: 1.5 panel + 2.7
Glass wool =4.2
Mounting type : E-200

Empty room: Temperature: 20.5°C
Relative humidity: 62%
Room with sample: Temperature: 21.0°C
Relative humidity: 64%

RESULTS



f	α_s
100	0,45
125	0,82
160	0,91
200	0,98
250	0,91
315	0,92
400	0,95
500	0,95
630	0,98
800	1,04
1000	1,00
1250	1,01
1600	1,02
2000	1,02
2500	1,04
3150	1,03
4000	1,07
5000	1,01
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.