

**SOUND ABSORPTION COEFFICIENT α_s
OF BAFFLES**

Test 13
Date 21/10/14
Station ALPHA

AA45

REQUESTER, MANUFACTURER SAINT GOBAIN ECOPHON
NAME Solo Baffle 40 mm
FITNESS FOR PURPOSE Unchecked
STANDARDS EN ISO 354, EN ISO 11654, prEN 16487
CONFIGURATION 300 mm overall depth of construction, oriented in rows cc 300 mm

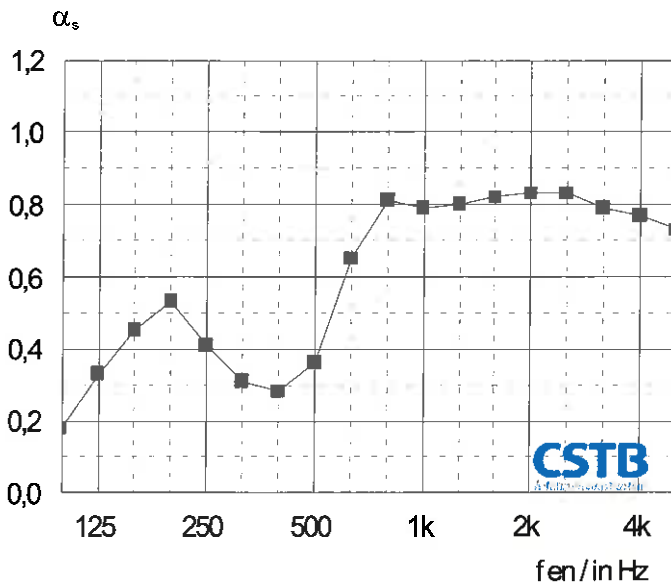
MAIN CHARACTERISTICS

Dimensions in mm : 3000 x 3600
Area in m² : 10.8
Thickness in mm : 40
Mass per unit area in kg/m² : 4.5
Mounting type : J

MEASUREMENT CONDITIONS

Empty room: Temperature: 21.0°C
Relative humidity: 67%
Room with sample: Temperature: 21.5°C
Relative humidity: 60%

RESULTS



f	α_s
100	0,18
125	0,33
160	0,45
200	0,53
250	0,41
315	0,31
400	0,28
500	0,36
630	0,65
800	0,81
1000	0,79
1250	0,80
1600	0,82
2000	0,83
2500	0,83
3150	0,79
4000	0,77
5000	0,73
Hz	

$\alpha_w = 0,55(\text{MH})^*$
classement / class: D

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

**This test is derogating from the standards EN ISO 354 and test code prEN 16487 on paragraph 4.1.2.1.4 and annex B.7, on centre distance d between rows.