

**PRACTICAL SOUND ABSORPTION COEFFICIENT α_p
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

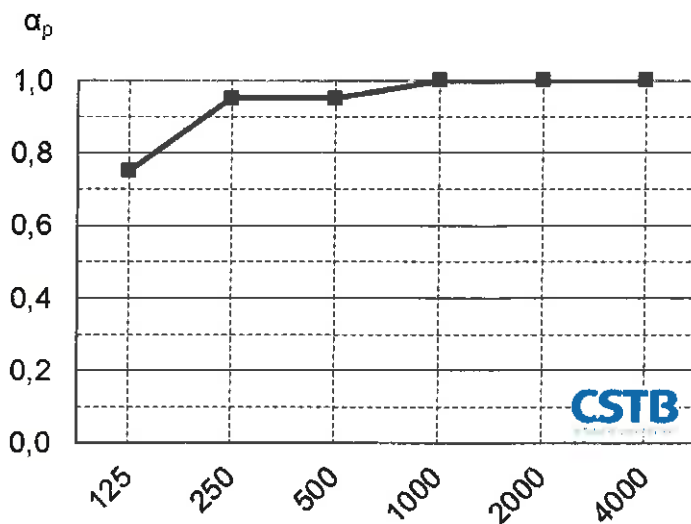
MAIN CHARACTERISTICS

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

MEASUREMENT CONDITIONS

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

RESULTS



| f | α_p |
|------|------------|
| 125 | 0,75 |
| 250 | 0,95 |
| 500 | 0,95 |
| 1000 | 1,00 |
| 2000 | 1,00 |
| 4000 | 1,00 |
| 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.