

**SOUND ABSORPTION COEFFICIENT α_s
OF SUSPENDED CEILING**

Test 5
Date 14/01/08
Station ALPHA

AA45

REQUESTER, MANUFACTURER ROCKFON. ROCKWOOL A/S
NAME Sonar Plan dB 44, Krios dB 44, Ekla dB 44
APTITUDE IN THE EMPLOYMENT Unchecked

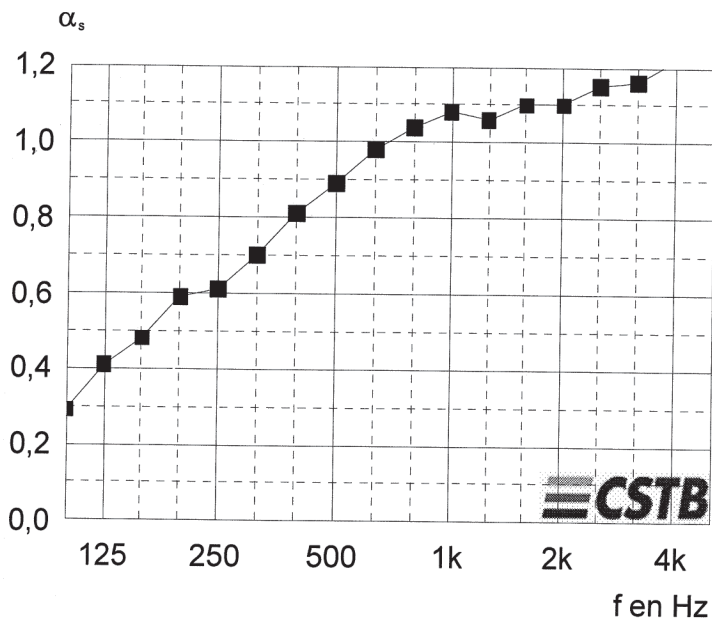
MAIN CHARACTERISTIC

Dimensions of one panel in mm : 1200 x 600
Thickness of one panel in mm : 50
Weight per unit of area in kg/m² : 7.6
Dimensions of sample in mm : 3000 x 3600
Installation type : E-250

CONDITIONS OF MEASUREMENT

EMPTY ROOM : Temperature : 24 °C
Relative humidity : 39 %
ROOM WITH SAMPLE : Temperature : 24 °C
Relative humidity : 34 %

RESULTS



| f | α_s |
|------|------------|
| 100 | 0,29 |
| 125 | 0,41 |
| 160 | 0,48 |
| 200 | 0,59 |
| 250 | 0,61 |
| 315 | 0,70 |
| 400 | 0,81 |
| 500 | 0,89 |
| 630 | 0,98 |
| 800 | 1,04 |
| 1000 | 1,08 |
| 1250 | 1,06 |
| 1600 | 1,10 |
| 2000 | 1,10 |
| 2500 | 1,15 |
| 3150 | 1,16 |
| 4000 | 1,22 |
| 5000 | 1,33 |
| Hz | |

$\alpha_w = 0,90$
classement : A