

**PRACTICAL SOUND ABSORPTION COEFFICIENT  $\alpha_p$   
OF SUSPENDED CEILING PANELS**

Test 38  
Date 09/07/14  
Station ALPHA  
AA45

**REQUESTER, MANUFACTURER** SAINT GOBAIN ECOPHON  
**NAME** Master Rigid E 20 mm  
**FITNESS FOR PURPOSE** Unchecked  
**STANDARDS** EN ISO 354, EN ISO 11654, prEN 16487  
**CONFIGURATION** 60 mm overall depth of construction

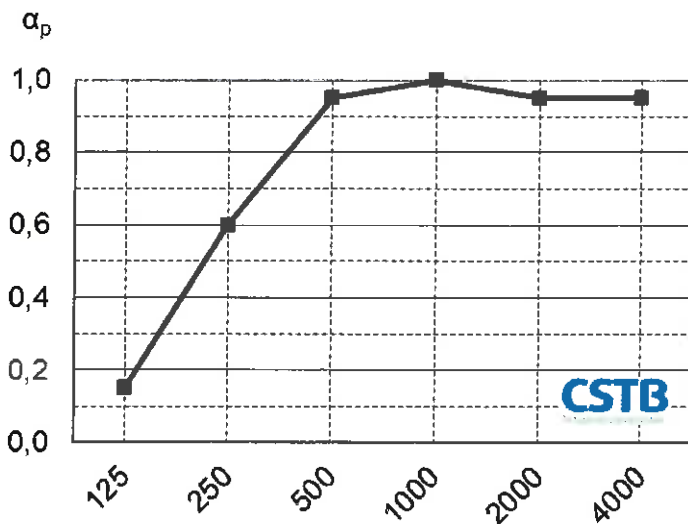
**MAIN CHARACTERISTICS**

Dimensions in mm : 2915 x 3500  
Area in m<sup>2</sup> : 10.2  
Thickness in mm : 20  
Mass per unit area in kg/m<sup>2</sup>: 2.1  
Mounting type : E-60

**MEASUREMENT CONDITIONS**

**Empty room:** Temperature: 21.0°C  
Relative humidity: 64%  
**Room with sample:** Temperature: 22.0°C  
Relative humidity: 59%

**RESULTS**



| f    | $\alpha_p$ |
|------|------------|
| 125  | 0,15       |
| 250  | 0,60       |
| 500  | 0,95       |
| 1000 | 1,00       |
| 2000 | 0,95       |
| 4000 | 0,95       |
| Hz   |            |

$\alpha_w = 0,90$

classement / class: A

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