

# SOUND ABSORPTION COEFFICIENT $\alpha_w$

LABORATOIRES DE TRAPPES  
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This document is established on the basis of the LNE report : P210662 – DMSI/16

**Destina** LAUDESCHER

**taire :** ZI de  
Pommenauque  
50500 CARENTAN

**LAUDESCHER absorbent panels,**

**Linea 9.2.3 ceiling range**

**Description of the product :**

- Composition : Wood and rock wool
- Openwork panel in solid wood with addition of surface rock wool slab of a 20 mm veil at 2.4 kg/m<sup>2</sup>

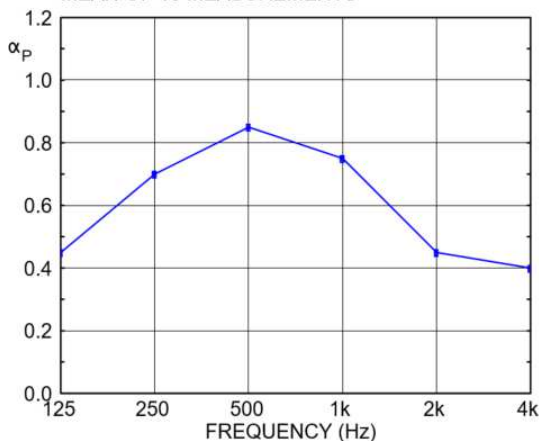
**Test conditions :**

- Date of the measurement ..... **7 April 2021**
- Size of the sample ..... **10 panels 1880 x 600 mm (11.28 m<sup>2</sup>)**
- Other test conditions ..... **Plenum of 314 mm (E-314), air gap of 250 mm**

The measurements are performed according to NF EN ISO 354 :2004 standard.

**Résultats :**

Linea 9.2.3  
SOUND ABSORPTION COEFFICIENT  
MEAN OF 16 MEASUREMENTS



F (Hz)	$\alpha_p$
125	0.45
250	0.70
500	0.85
1000	0.75
2000	0.45
4000	0.40

$\alpha_w = 0.50(LM)$

**NF EN ISO 11654 :**

**Weighted sound  
absorption coefficient :**

**$\alpha_w = 0.50(LM)$**

**Absorption class :**

**Classe D**

Trappes, 28 April 2021

**Head Deputy for Force and  
associated quantities Department**



**Dominique RODRIGUES**



**Test Officers :**

**Dominique RODRIGUES  
Carole TREFFOT**

**Technical Officer :**

**Dominique RODRIGUES**