

INSTITUTO DE ACUSTICA
CENTRO DE TECNOLOGIAS FISICAS L.TORRES QUEVEDO”

REPORT

REF.-AC3-D4-03-I

YESYFORMA EUROPA
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50014-ZARAGOZA

This report concerns the analysis of sound absorption characteristics of the materials described below, in a position to diffuse sound field (reverberant chamber)

1.- TESTED MATERIALS

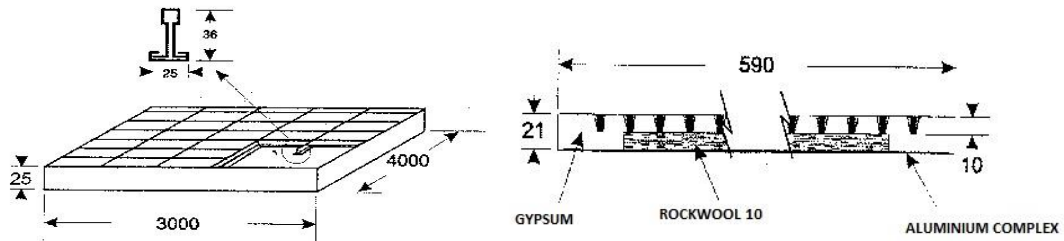
The product analyzed in this test, named LISBOA, by the applicant firm is a registrable plaster ceiling , 21 mm thickness with round perforations 5 mm diameter, arranged in a square grid of 15 mm hand. It comes in pieces of 59x59 cm², panelling of mineral wool of 10 mm and 77 kg/m³, and a complex-shaped aluminum foil, fixed perimeter.

SOUND ABSORPTION COEFFICIENT

According rule UNE-EN 20354

Applicant: YESYFORMA

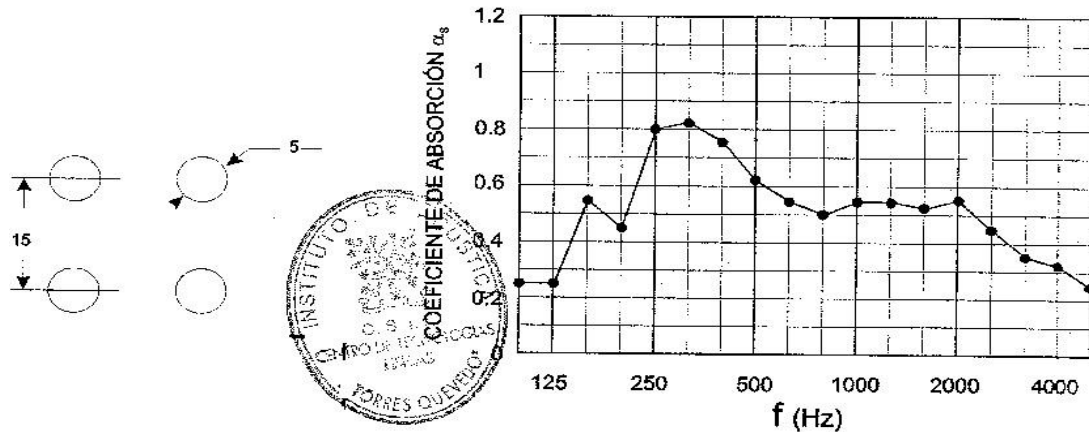
Product identifier: Plaster ceiling tiles (LISBOA) perforated with rockwool and aluminium sheet.



Room volume : 200 m³
 Room surface: 210 m²
 Test sample area (m²): 12 m²

Pressure: 935 mb
 Temperature: 16°C
 Test room humidity: 53%

f (Hz)	125	250	500	1000	2000	4000
α_s	0.4	0.7	0.65	0.55	0.55	0.3



$\alpha_m = 0,57$

NRC = 0,65

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 February 2003

INSTITUTO DE ACUSTICA
 CETEF Leonardo Torres Quevedo

Materials Laboratory