

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

REPORT

REF.-AC3-D6-99-I

YESYFORMA EUROPA  
Ctra. De Castellón. Km 3  
Polígono Industrial “SAN CARLOS, NAVE 2”  
50013-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**

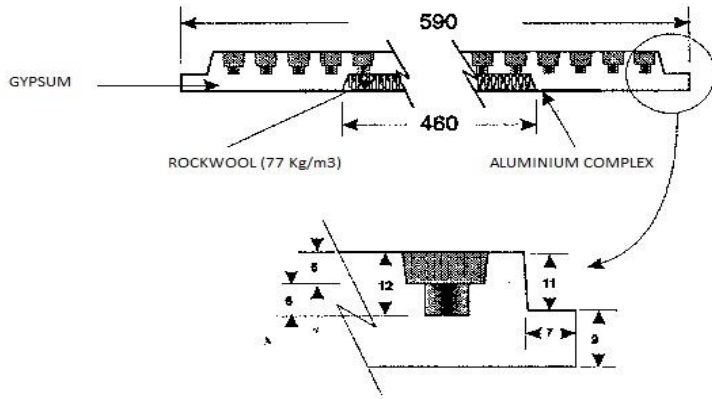
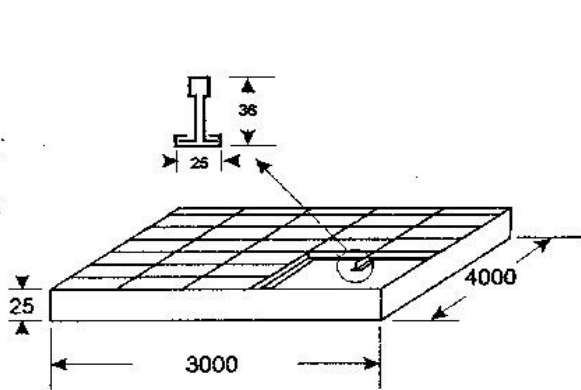
The product analyzed in this test, named TUNEZ, by the applicant firm is a registrable plaster ceiling , 20 mm thickness with round perforations 4,5 mm diameter, arranged in a square grid of 15 mm hand,. It comes in pieces of 59x59 cm2, panelling of mineral wool of 10 mm and 77 kg/m3, and a complex-shaped aluminum foil, fixed perimeter.

# SOUND ABSORPTION COEFFICIENT

According rule UNE-EN 20354

Applicant: YESYFORMA

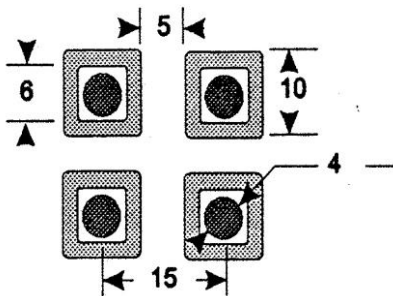
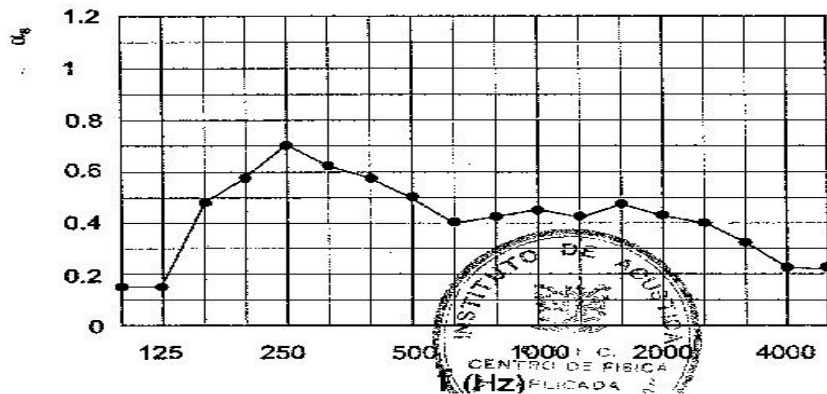
Product identifier: Plaster ceiling tiles TUNEZ with rockwool and aluminium sheet.



Room volume : 200 m<sup>3</sup>  
 Room surface: 210 m<sup>2</sup>  
 Test sample area (m<sup>2</sup>): 12 m<sup>2</sup>

Pressure: 940 mb  
 Temperature: 22°C  
 Test room humidity: 48%

f (Hz)	125	250	500	1000	2000	4000
$\alpha_s$	0.3	0.6	0.5	0.4	0.4	0.3



**$\alpha_m = 0,46$**

**NRC=0,50**

Evaluation in accordance with standard ISO 354.

Based on laboratory measurements obtained through the use a validated method.

Report AC-3-D6-99 II

Madrid, the 29<sup>TH</sup> of  
 September 1999

INSTITUTO DE ACUSTICA  
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Materials Laboratory