



PS003-FR-65

TACER ACOUSTIC R&D LABORATORY

Esenboğa Yolu 22 km. Saracalar Mh. Kümeevler Sk.

No:46 Akyurt / ANKARA

Telefon: +90 312 399 25 45

E-mail: info@tacer.com.tr

Test ID : TCR-SA-2025-005

Deney No:

Specimen Description : Gentuğ Felt Panel

Numunenin Tanımı

Date of Test : 28.08.2025

Test Tarihi

Test Method : TS EN ISO 354:2006 Acoustics - Measurement of sound absorption in the reverberation room, α_s

Deney Metodu

Specimen Details : Composition: 100 % polyester
Material Thickness: 12 mm
Material Density: 200 kg/m³
Material Size: 120cm x 240 cm

Numune Detayları

Test Result : $\alpha_w = 0,75$ was found.

Deney Sonuçları

Seal
Mühür

Date
Tarih

Person in charge of test
Deneyi Yapan

28.08.2025

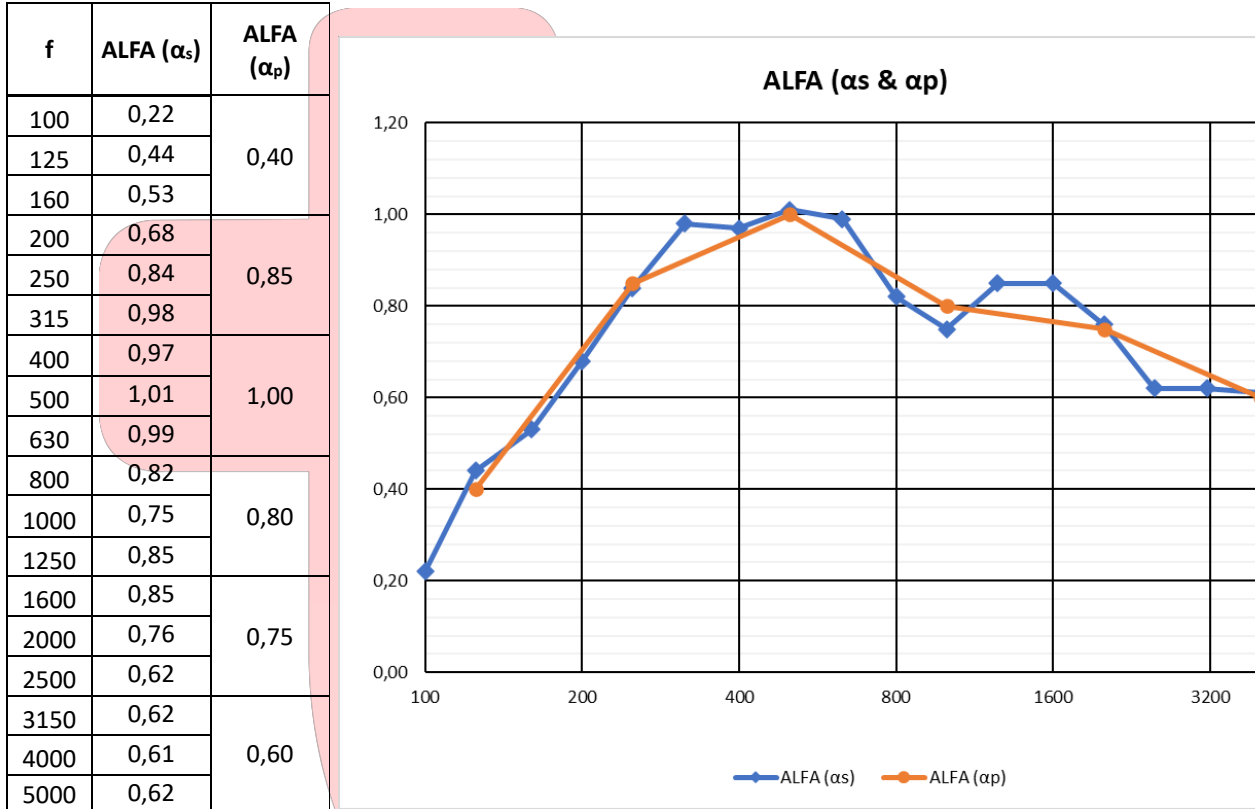
Orhan Karabayır
Mechanical Engineer



Measurement of sound absorption in the reverberation room according to ISO 354

Laboratory measurements of the sound absorption coefficient in a reverberation room

Manufacturer : GENTUĞ TEKSTİL A.Ş.
Test specimen mounted by : TACER INSAAT TICARET VE SANAYİ A.Ş.
Description of test specimen : Gentuğ Felt Panel, 12mm thickness (20 cm air gap)
Specimen Area (m²) : 10,8
Room Volume (m³) : 150
Total Room Surface Area (m²) : 237,8



α_s : Sound absorption coefficient according to ISO 354

α_p : Practical sound absorption coefficient according to ISO 11654

Rating according to the ISO 11654
 Weighted sound absorption coefficient

α_w : **0,75**
 Sound absorption class: **C**

Rating according to the ASTM C423

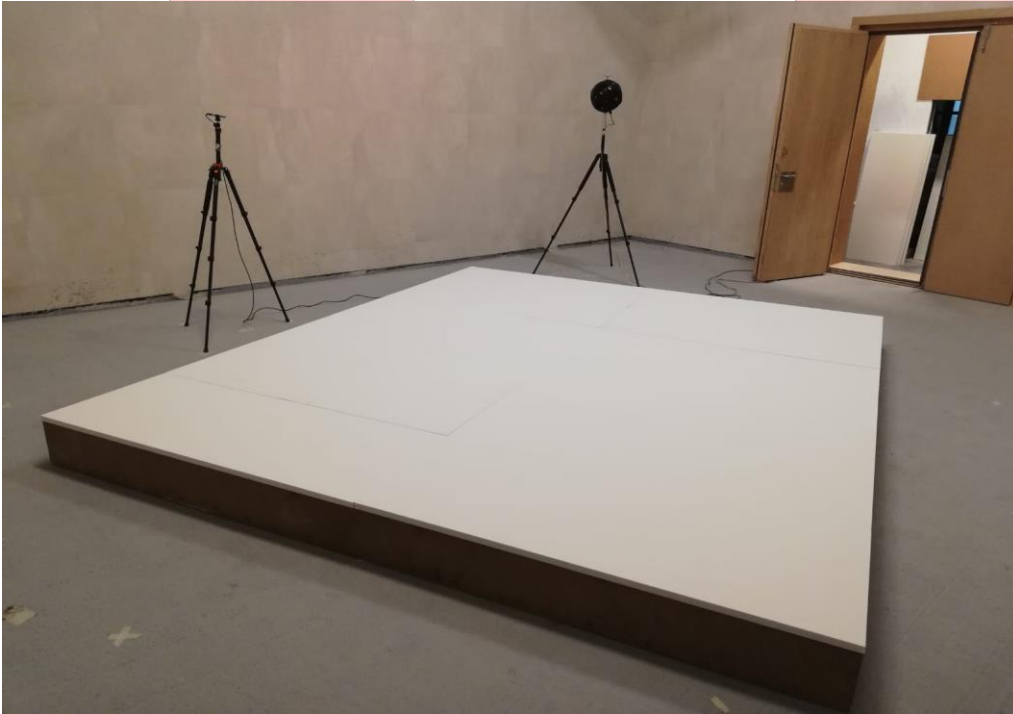
Noise Reduction Coefficient NRC: **0,85**
 Sound Absorption Average SAA: **0,84**

In order to prepare the sample for measurement, assembly operations were carried out by TACER INSAAT TICARET VE SANAYİ A.Ş.

The measurement was taken by placing the sample parallel to the floor of the test room. The measurement was carried out within the scope of the ISO 354 standard. The area of sample which had been placed directly on the floor of the reverberation chamber (mounting according to ASTM C423) is 10,80 m².

This test is valid only for the laboratory measurement of sound absorption and sound absorption coefficients in the reverberation room, conducted within the scope of ISO 354, under the specified conditions at Saracalar Mh. Kümeevler Sk. No:46 Akyurt Ankara Türkiye. This report, in whole or in part, cannot be copied or reproduced without the permission of TACER INSAAT TICARET VE SANAYİ A.Ş. Reports that are unsealed are considered invalid. The measurement results pertain solely to the conditions present during the measurement.

The sample was measured at 20 cm above from reverberation chamber floor.



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