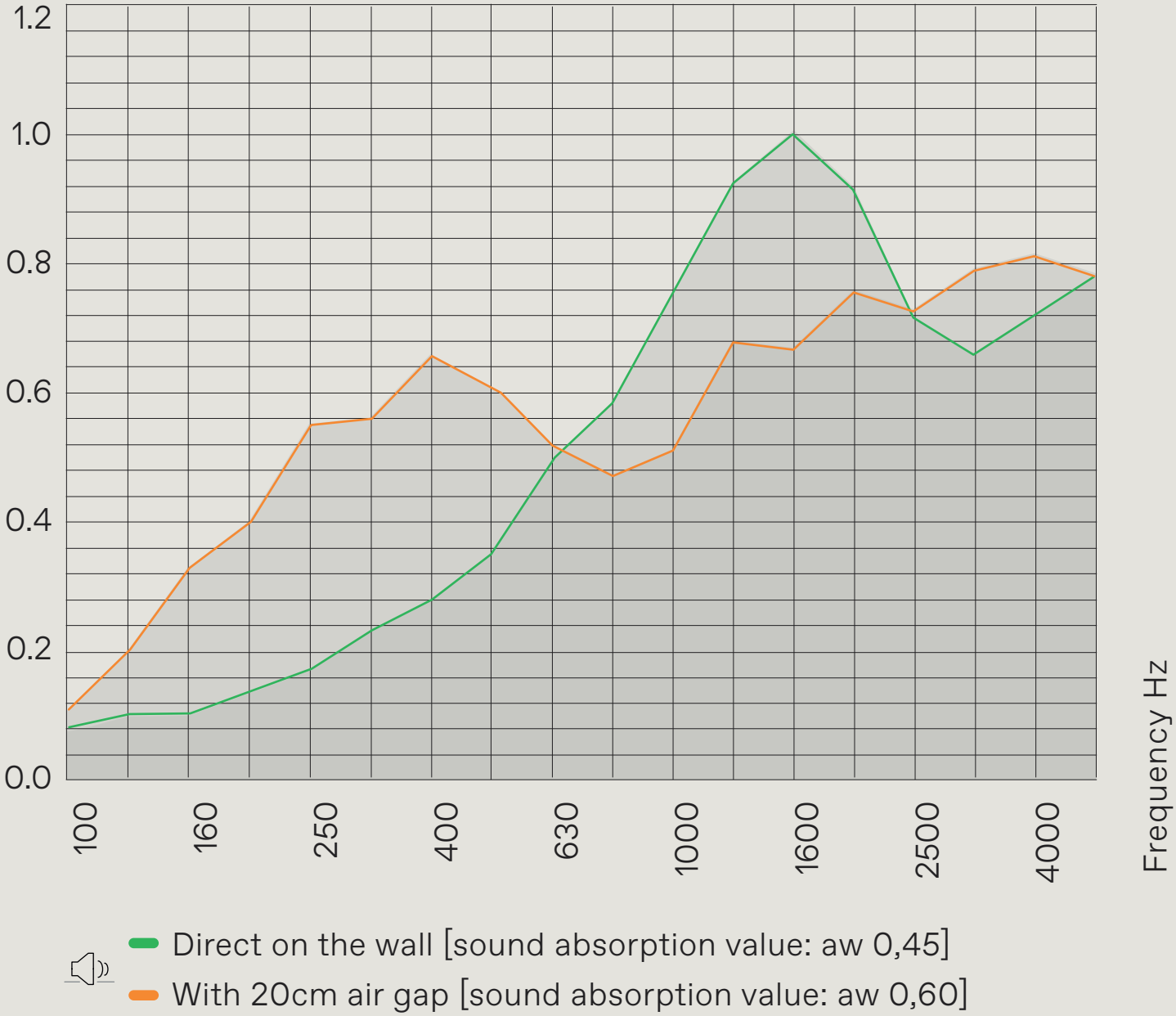
SAPPA

Sustainable Acoustic Solutions

Acoustic properties

Measurement in reverberation room of the sound absorption coefficient “αS” in accordance with standard UNI EN ISO 354:2003



ISTITUTO GIORDANO BEYOND CERTIFICATION

ilac-MRA

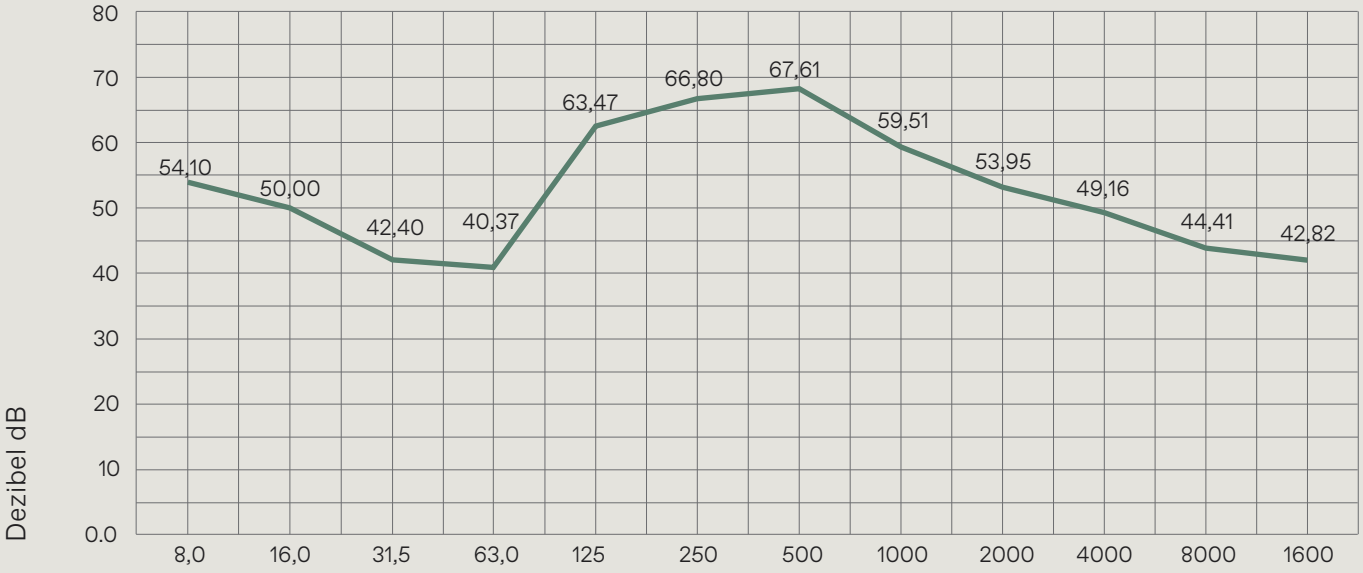
ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0021 L

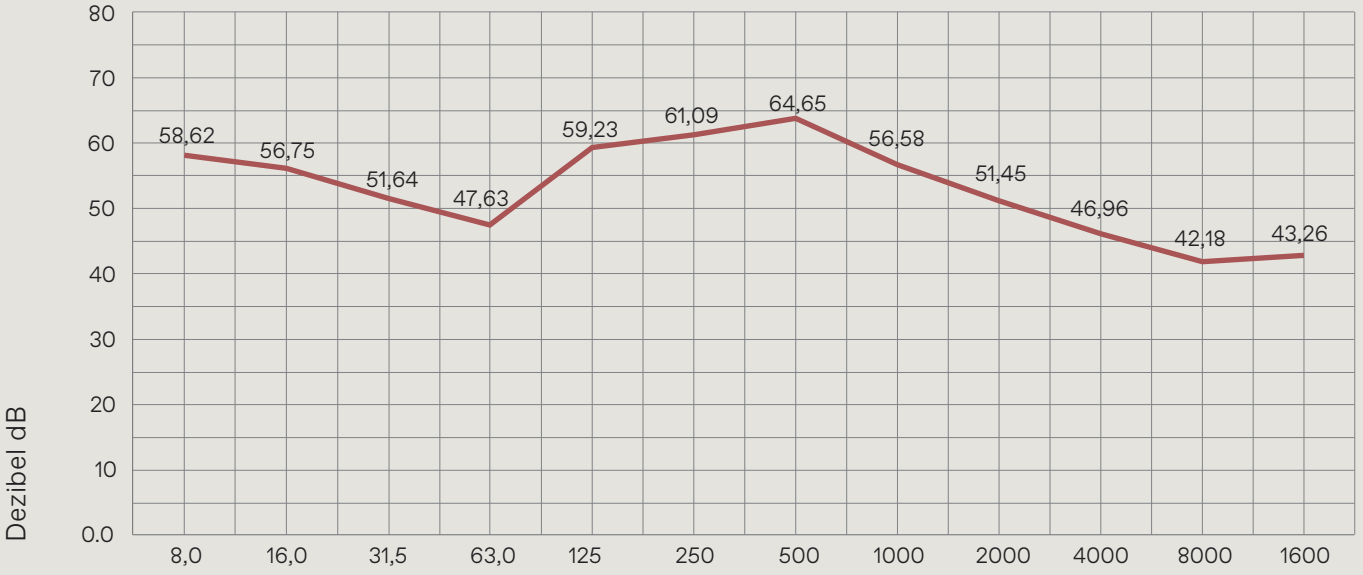
Measurement of sound absorption

Cieling covered with panel 125×62.5 - Room size: 16 m2

Spectral without insulation

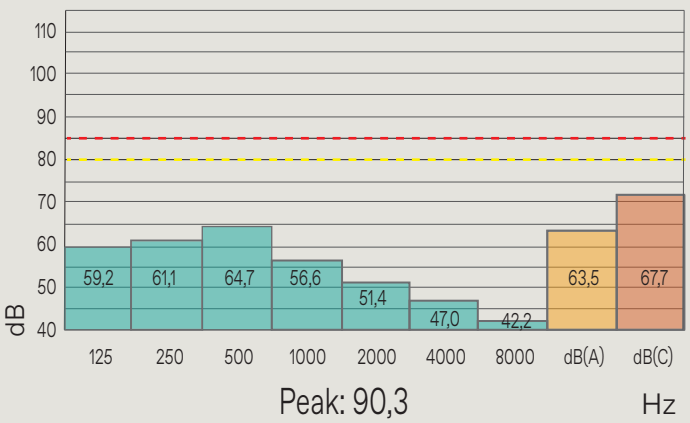


Spectral with insulation

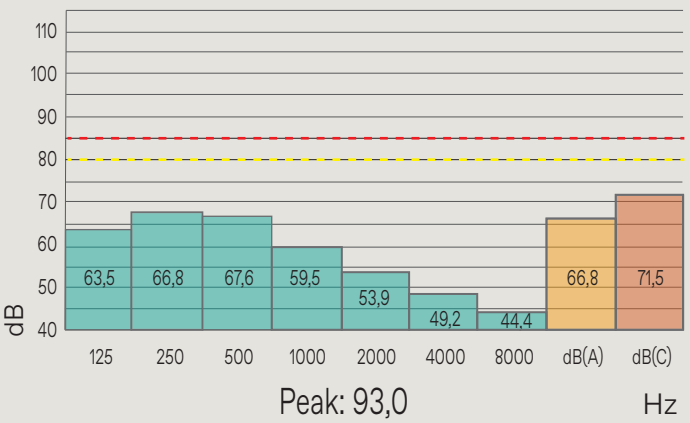


Spectral analysis

Messurment hour: 00 : 01 : 14,4
Date: 16.12.2022



Messurment hour: 00 : 01 :30,5
Date: 06.10.2022

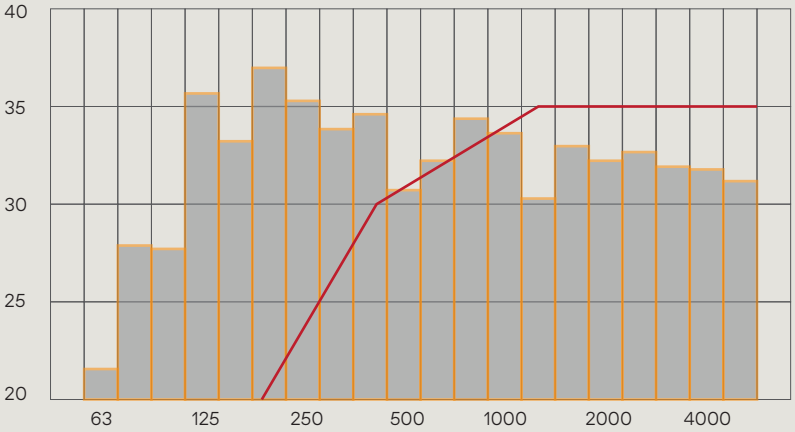


Sound reduction index R’w

Verification of acoustic insulation of the vertical wall: UNI EN ISO 16283-1 (FIRST FLOOR)
Measurement positions: Between two offices (A dividing wall made of 20 cm thick plastered bricks.)
Post operation: making a ceiling covered with acoustic panels in the office
+ closing about 60 cm of the vertical acoustic partition wall in the room in the same procedure

Description and identification of test building, test set-up and measurement direction: V=33,3MC. Receiver ; S=10.8 m2.

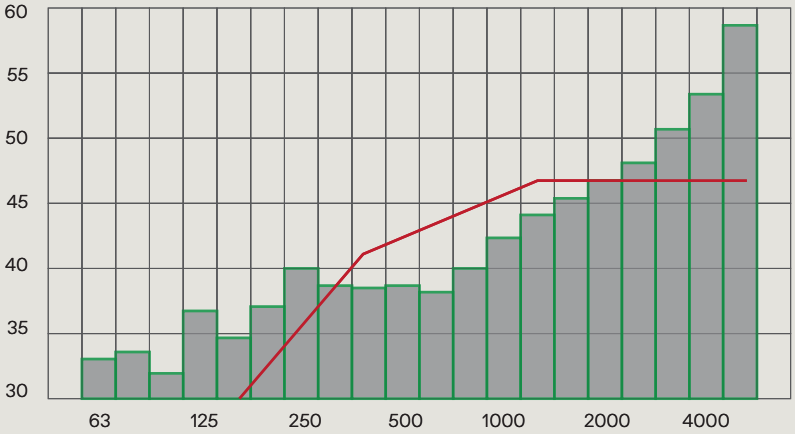
Before: 1.0 Test Result D-01 R’ / R’w (ISO 16283 50



R’ / R’w (ISO 16283-1)

31 (0 ; 1)

After: 2.0 Test Result D-02 R’ / R’w (ISO 16283 50



R’ / R’w (ISO 16283-1)

43 (-1 ; -3)

Acoustic absorption coefficient

01 Tr autospectrum Reverberation tine A V G [196] Hz;s	50	0.70
02 Tr autospectrum Reverberation tine A V G [200] Hz;s	50	0.60