

# Apparent sound reduction index according to ISO 10140-2

Laboratory measurement of sound insulation of building elements

Client: No Sound System Date of test: 01-10-24  
 Manufacturer:  
 Test room identification:  
 Test specimen mounted by:  
 Product identification:

Description of the specimen: Test 02 : Ecran acoustique, Box plastiques [redacted] tapis [redacted] : 4 éléments

Receiving room:

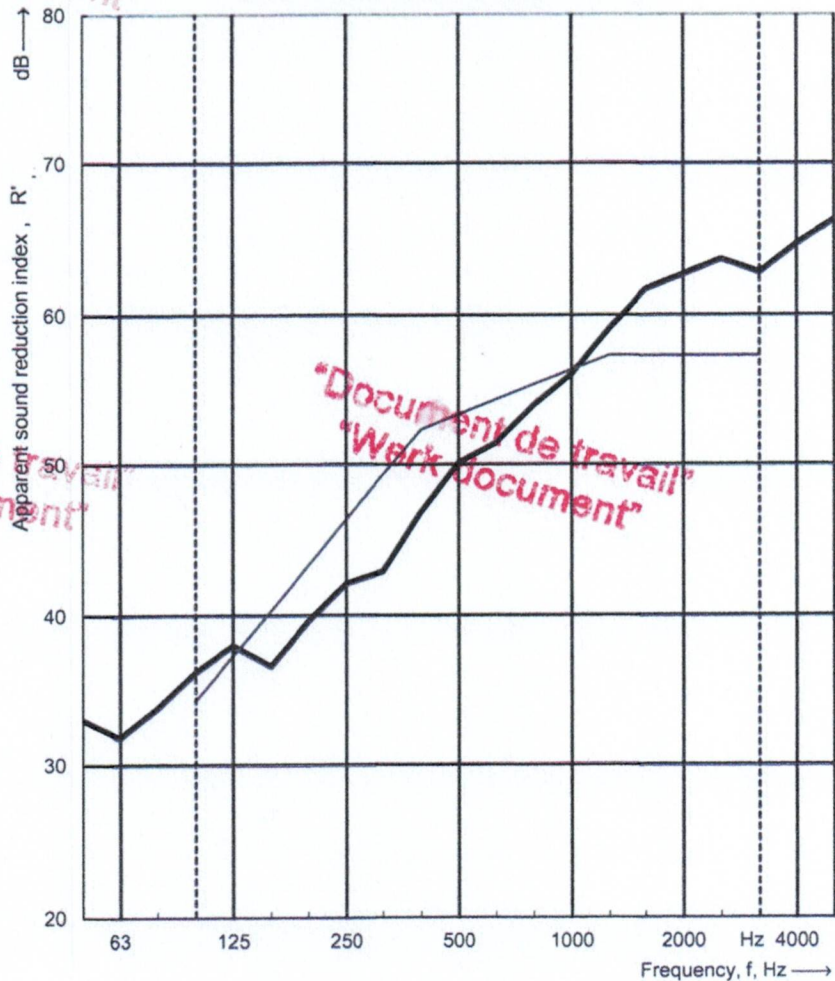
Volume: 61.0 m<sup>3</sup>  
 Air temperature: 18.2 °C  
 Relative air humidity: 65.5 %  
 Static pressure: 99.5 kPa  
 Mass per unit area:  
 Area, S, of test element: 9.60 m<sup>2</sup>

Source room:

Volume: 102.0 m<sup>3</sup>  
 Air temperature: 17.5 °C  
 Relative air humidity: 67.5 %  
 Static pressure: 99.5 kPa  
 Frequency range according to the curve of shifted reference values (ISO 717-1)

Frequency f [Hz]	R' 1/3 octave [dB]
50	33.0
63	31.8
80	33.8
100	36.2
125	38.0
160	36.6
200	39.6
250	42.1
315	42.9
400	46.8
500	50.1
630	51.4
800	53.9
1000	56.0
1250	59.1
1600	61.7
2000	62.7
2500	63.7
3150	62.8
4000	64.7
5000	66.3

Limit of measurement



Rating according to ISO 717-1

$R'_w$  (C;Ctr) = 53.3 ( -1.8 ; -5.8 ) dB

$C_{50-3150} = -2.1$  dB  $C_{50-5000} = -1.1$  dB  $C_{100-5000} = -0.8$  dB

$C_{tr,50-3150} = -7.4$  dB  $C_{tr,50-5000} = -7.4$  dB  $C_{tr,100-5000} = -5.8$  dB

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method.

Name of test institute: No Sound System

No. of test report: TS-24-235-02

Date: 01-10-24

Signature: