

REPORT N. 146-2016-IAP

UNI EN ISO 10140-2:2010

LABORATORY MEASUREMENT OF SOUND INSULATION OF BUILDING ELEMENTS MEASUREMENT OF AIRBORNE SOUND INSULATION

Issue place and date: Cerea (VR), 11/11/2016

Committee: Eclisse S.r.l.

Committee address: via Semaglia, 76 - 31053 Pieve di Soligo (TV)

Sample delivery date: 10/26/2016

Sample provenance: Committee

Sample installation date: 10/27/2016

Sample installed in laboratory by: Committee (sampling made by the committee)

Test date: 10/27/2016

Test location: Z Lab S.r.l. – Via Pisa, 5/7 – 37053 Cerea (VR) – Italia

Sample denomination: Sliding door EC_004



LAB N° 1416

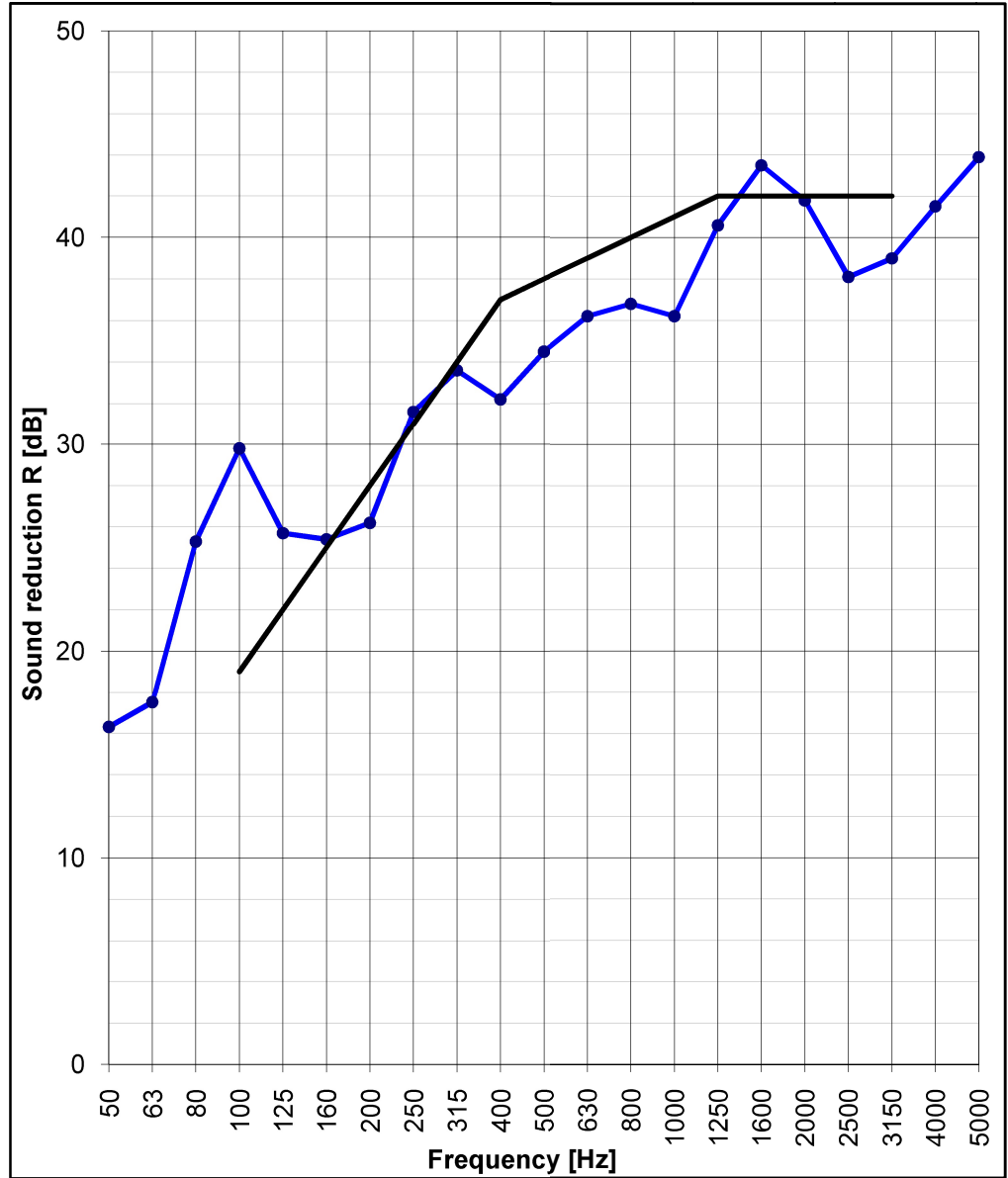
PREPARED	VERIFIED	APPROVED
Massimo Fiore	Antonio Scofano	Antonio Scofano

Sound reduction index *R*, according to UNI EN ISO 10140-2:2010 and UNI EN ISO 717-1:2013

Sample description: Sliding door EC_004

Specimen area: 4.0 m²
 Rooms volume: Emitting 122.5 m³ Receiving 164.2 m³

f	R
[Hz]	[dB]
50	16.3
63	17.5
80	25.3
100	29.8
125	25.7
160	25.4
200	26.2
250	31.6
315	33.6
400	32.2
500	34.5
630	36.2
800	36.8
1000	36.2
1250	40.6
1600	43.5
2000	41.8
2500	38.1
3150	39.0
4000	41.5
5000	43.9



Evaluation of conformity according to ISO 717-1

$R_w (C; C_{tr}) = 38 (-1 ; -3) \text{ dB}$ $C_{50-3150} = -1 \text{ dB}$; $C_{50-5000} = -1 \text{ dB}$; $C_{100-5000} = -1 \text{ dB}$

Evaluation based on laboratory measurement results by means of a technical method.

$C_{tr,50-3150} = -5 \text{ dB}$; $C_{tr,50-5000} = -5 \text{ dB}$; $C_{tr,100-5000} = -3 \text{ dB}$

Laboratory Manager Ing. Antonio Scofano