

REPORT N. 075-2015-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), 08/04/2015

Committee: Chemolli Fire

Committee address: via Fitta 1 - 38062 Arco (TN) - Italy

Sample delivery date: 08/04/2015

Sample provenance: Chemolli Fire

Sample installation date: 08/04/2015

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

Test date: 08/04/2015

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

Sample denomination: The test sample is denominated “X275”

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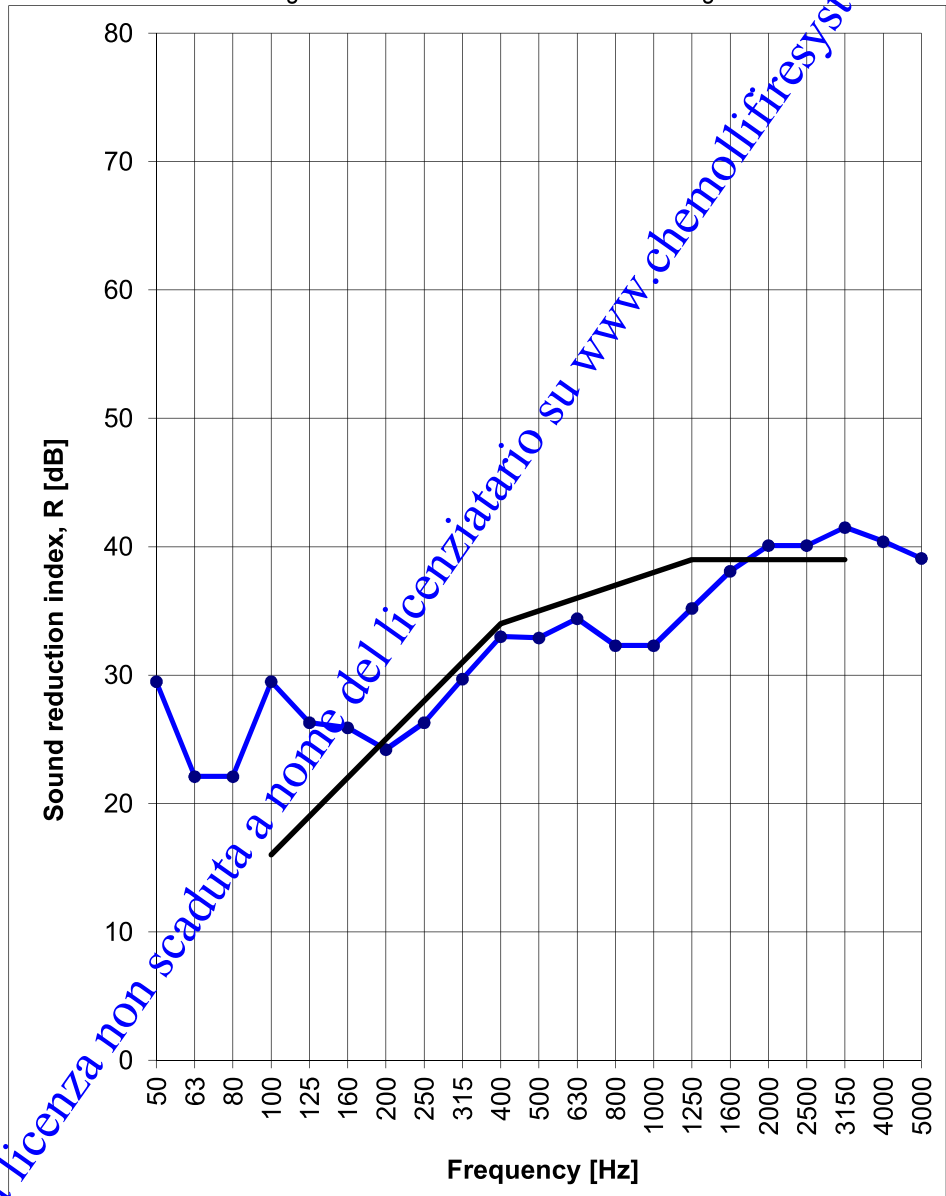
REDACT	VERIFIED	APPROVED
Adriano Maci	Antonio Scofano	Antonio Scofano

Sound reduction index, R, according to UNI EN ISO 10140-2

Sample description: Door X275

Specimen area: 2.13 m²
 Rooms volume: Emitting 116.2 m³ Receiving 164.8 m³

f	R
[Hz]	[dB]
50	29.5
63	22.1
80	22.1
100	29.5
125	26.3
160	25.9
200	24.2
250	26.3
315	29.7
400	33.0
500	32.9
630	34.4
800	32.3
1000	32.3
1250	35.2
1600	38.1
2000	40.1
2500	40.1
3150	41.5
4000	40.4
5000	39.1



Evaluation of conformity according to ISO 717-1

$R_w (C; C_{tr}) = 35.8 (-1, -3) \text{ dB}$ $C_{50-3150} = -1 \text{ dB};$ $C_{50-5000} = 0 \text{ dB};$ $C_{100-5000} = 0 \text{ dB}$

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

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

Laboratory Manager Ing. Antonio Scofano



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