100% ANALYSIS+TESTING

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ECAMRICERT SRL
Viale del Lavoro, 6
36030 Monte di Malo
Vicenza, Italy
T +39 0445 605838
F +39 0445 581430
info@ecamricert.com
C.F./P.I. 01650050246

ecamricert.com

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Labft

04/03/2016

LABORATORY MEASUREMENT AIRBORNE SOUND INSULATION OF BUILDING ELEMENTS (STANDARD SERIES ISO 10140)

Client SEVEN METAL S.r.l. Via Castaldia, 5 31010 Mareno di Piave (TV) Italy.

Object: UNI EN ISO 10140-1:2014 + UNI EN ISO 10140-2:2010 + UNI EN ISO 10140-4:2010 + UNI EN ISO 717-1:2013
Mesurage en laboratoire de l'isolation acoustique des éléments de construction.

1. ACOUSTIC TESTS DESCRITION#

1) wall with metal panels pre-painted sheet, plasterboard, internally insulated with insulating material (except in the uprights), thickness 100 mm (test date 23/02/16).
R_w = 55 dB

2) glass wall with tempered glass 6 + 8 on aluminum profiles, thickness 100 mm (test date 25/02/16).
R_w = 47 dB

3) glass door with tempered glass 6 + 8, thickness 82 mm, pre-painted steel doorframe, thickness 100 mm, (test date 29/02/16).
R_w = 40 dB

4) metal door, thickness 100 mm, include a solid lacquered sheet metal, thickness 82 mm, (test date 03/03/16).
R_w = 43

2. REFERENCE STANDARDS

For the technical methods of measurement and determination of the indices that define the performance of building elements must be referred to the following ISO standards:

ISO 10140-1:2014 Acoustics. Laboratory measurement of sound insulation of building elements. Part 1: Application rules for specific products.
ISO 10140-2:2010 Acoustics. Laboratory measurement of sound insulation of building elements. Part 2: Measurement of airborne sound insulation.
ISO 10140-4:2010 Acoustics. Laboratory measurement of sound insulation of building elements. Part 4: Measurement procedures and requirements.
ISO 10140-5:2014 Acoustics. Laboratory measurement of sound insulation of building elements. Part 5: Requirements for test facilities and equipment.
ISO 717-1:2013 Acoustics. Rating of sound insulation in buildings and of building elements. Part 1: Airborne sound insulation.

Thermo-Acoustic sector Director: Ing. Rinaldi Cristian