

Testing laboratory accredited by NAH under No NAH-1-1110/2023/K.

Project number: M1-A135X-27718-2023

TEST REPORT

Trade name of the product(s) and/or name of the test: 24 cm thick Evoceramic 24 VB brick walling

Customer (applicant): Cemacon S.A.
400347 Cluj-Napoca, Calea Turzii nr. 178K Romania

Technical specification (product standard): MSZ EN ISO 10140-2:2011
Acoustic. Laboratory measurement of sound insulation of building elements. Part 2: Measurement of airborne sound insulation

Place of tests: Central Testing Laboratory
H-2000 Szentendre, Dózsa György út 26. Building O

15 January 2024.

The test results apply only to the individual tested.

Without the written permission of the laboratory the test report may only be duplicated in full.

*The expertise and interpretation in the test report means an activity performed in non-accredited status.

The report contains 4 numbered pages and 2 annexes.

1. DATA

Customer:	Cemacon S.A. 400347 Cluj-Napoca, Calea Turzii nr. 178K Romania
Contact person:	Dipl. Ing. Ferenc Boros Product Manager
Manufacturer:	Cemacon S.A. 400347 Cluj-Napoca, Calea Turzii nr. 178K Romania
Name of the tested structures:	Masonry made from 24 cm thick Evoceramic 24 VB bricks with double sided plaster. Size of the bricks: 430 x 240 x 238 mm

1. TESTS

The airborne sound insulation tests were made according to the MSZ EN ISO 10140-2:2011 standards. The determination of the weighted airborne sound insulation characteristics is made according to MSZ EN ISO 717-1:2021 standards.

The tests meet the requirements of the MSZ EN ISO 10140-1:2011, MSZ EN ISO 10140-1:2010/A1:2012 and MSZ EN ISO 10140-1:2010/A2:2014 standards for the laboratory airborne sound insulation of the special products as well as the MSZ EN ISO 10140-4:2011 standard for test procedures. The laboratory and the measuring devices meet the requirements of the MSZ EN ISO 10140-5:2011 and the MSZ EN ISO 10140-5:2010/A1:2014 for the test rooms and measuring devices.

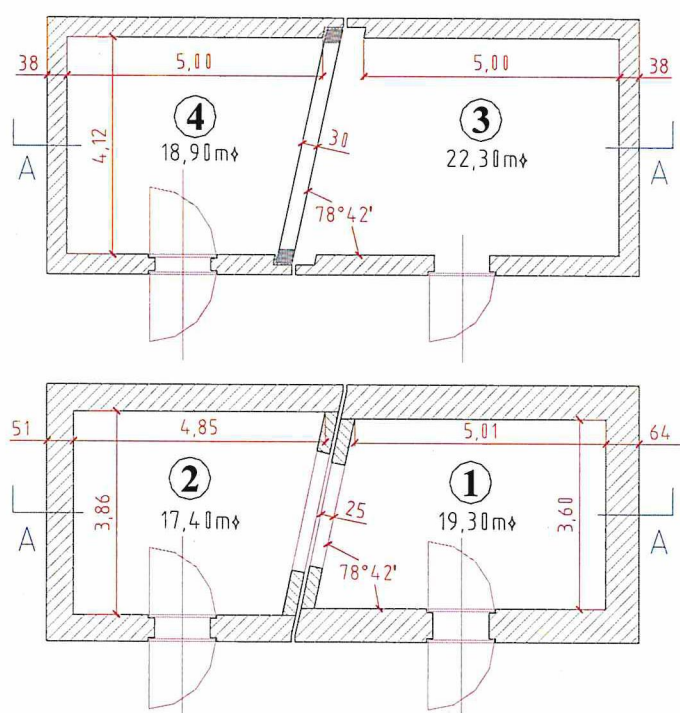
Instruments used for the test were as follows:

Name of the instrument	Measuring range of the instrument	ID number of the instrument	Controlled condition of the instrument
Brüel&Kjaer PULSE 3160A042 LAN-XI measuring system	1 Hz-20kHz	1147	calibrated
Brüel&Kjaer 4190 microphone	5 Hz – 20 kHz dynamic range: 15 dB – 148 dB	1102.1 1102.2	calibrated
Brüel&Kjaer 2669 microphone pre-amplifier	3 Hz-200kHz (±0,5 dB, zaj:<10 µV)	1103.1 1103.2	calibrated
RION NC73 acoustic calibrator	(+5C° - 35C°) 94dB-re 1000 Hz ± 0,5dB	1141	calibrated
NTI Audio dodecahedron sound source set (DS2 sound source, PA3 amplifier)	50Hz-10kHz LW = 120,5 dB	1149	checked

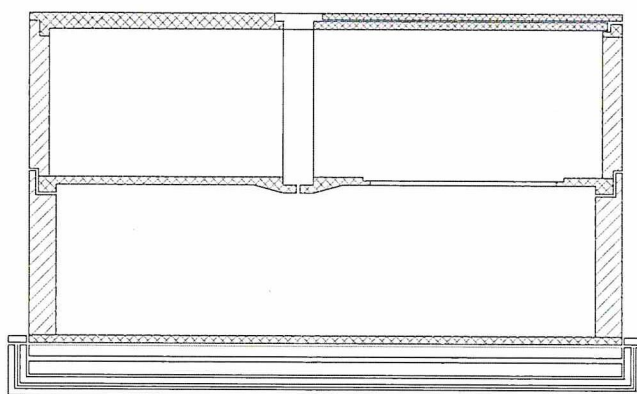
The samples was shipped by the customer. The wall build up by the ÉMI Non-profit Limited Liability Company for Quality Control and Innovation in Building, under the instructions and supervision of the client.

The data and characteristics of the specimen as well as the results of the tests are included in the attached test sheet.

The airborne sound insulation test was carried out in the Central Material and Structure Testing Laboratory – Acoustical Unit of the ÉMI Non-profit Llc. (H-2000 Szentendre, Dózsa György út 26. Building O). Arrangement of the test rooms of the laboratory is shown in the following figure.



A-A metszet



2. RESULTS

Weighted laboratory airborne sound insulation number
of the 24 cm thick Evoceramic 24 VB wall (Annex 1)
according to MSZ EN ISO 717-1:2021 standard:

$$R_w (C; C_{tr}) = 54 (-1; -4) \text{ dB}$$

Detailed data of the tests as well as the test results are included in the attached test sheet. The test results characterize only the airborne sound insulation capability of the related structure.

3. DECLARATION (by MSZ EN ISO/IEC 17025 chapter 7.8.6)

Without the written permission of the laboratory the test report may only be duplicated in full.

4. ANNEXES

Annex no. 1: 24 cm thick Evoceramic 24 VB wall – airborne sound insulation test sheet (page 1)

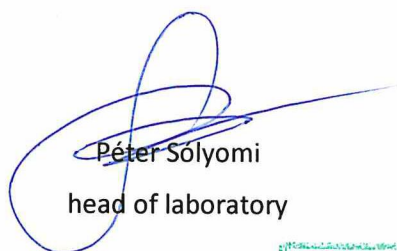
Annex no. 2: 24 cm thick Evoceramic 24 VB wall – data, figures and photos (page 1)

Szentendre, 15 January 2023.

Report compiled by: Laszlo Ilyes test engineer

Supervised by:

Approved by:

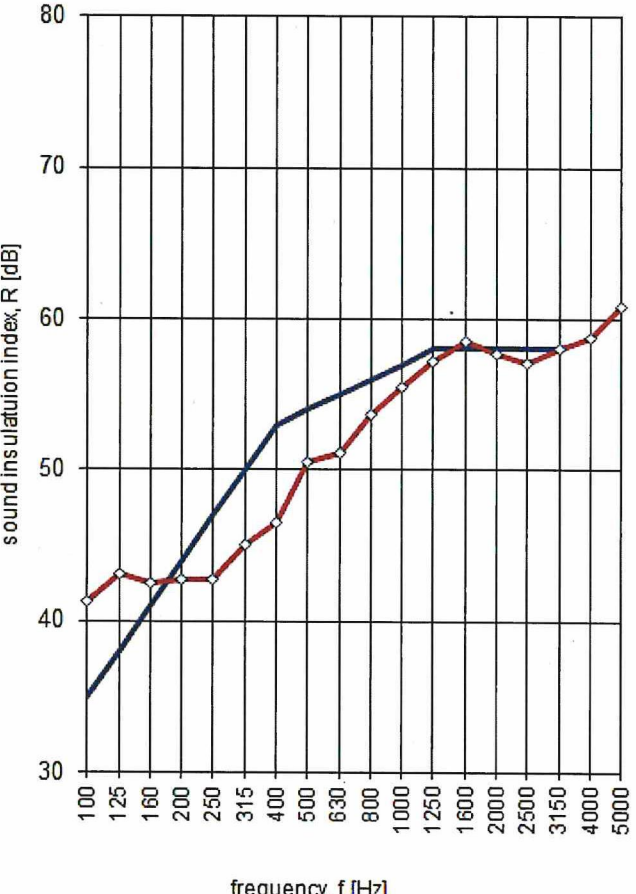


Péter Solyomi
head of laboratory



Ákos Darányi
head of ÉMILAB laboratory



Tested structure: 24 cm thick Evoceramic 24 VB brick walling										Laboratory AIRBORNE SOUND INSULATION test according to MSZ EN ISO 10140-2:2011 standard									
Drawings and data concerning the tested structure and test conditions:: Weight of the tested bricks: 18,2 kg/piece (average of 3 pieces) Nominal size of the bricks: 430 x 240 x 238mm Masonry mortar: Baunit MM 50 Plastering: Baunit MPI 25 Primer (guz): Baunit Spritz 4 Plaster: 1,5 cm (both side) Further data are available in Annex no. 2																			
Customer: Cemacon S.A. 400347 Cluj-Napoca, Calea Turzii nr. 178K Romania Area of the tested walling: 2,78 x 4,20 m Specific weight of tested structure: - kg/m2 Test location: ÉMI Non-profit Llc. Central Testing Laboratory										— shifted reference curve —◇— sound insulation index of the tested structure 									
Measuring room 1 • volume: 52,9 m3 • temperature: 20 °C • relative humidity: 55 % • static pressure: 101,32 kPa																			
Measuring room 2 • volume: 50,4 m3 • temperature: 20 °C • relative humidity: 51 % • static pressure: 101,10 kPa																			
Test made by: Laszlo Ilyes Antal Vadász										Evaluation according to MSZ EN ISO 717-1:2021 standard: R_w (C; C_{tr}) = 54 (-1; -4) dB									
Date of test: 15 December 2023.																			
f [Hz]	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	
R [dB]	41,3	43,1	42,5	42,7	42,7	45,0	46,5	50,5	51,2	53,7	55,5	57,2	58,6	57,7	57,1	58,1	58,8	60,8	

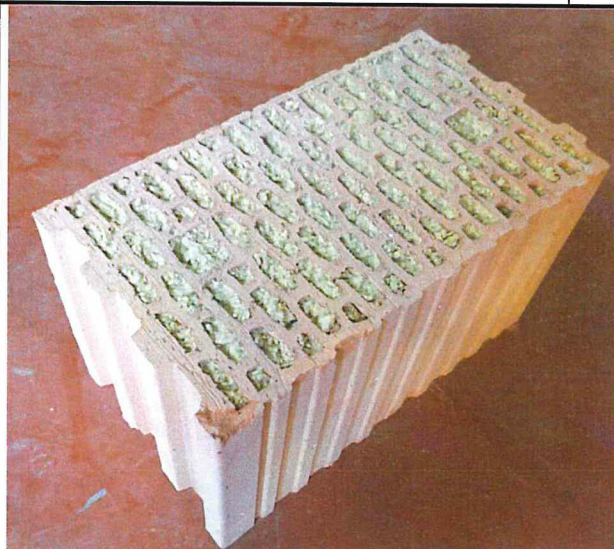
Tested structure:

24 cm thick
Evoceramic 24 VB brick walling

Laboratory

AIRBORNE SOUND INSULATION

test according to MSZ EN ISO 10140-2:2011 standard



CEMACON S.A.
Sediul social: Calea Turzii nr. 178 K, etaj 1, Cluj-Napoca, Jud. Cluj
Punct de lucru: strada Fabricii nr. 1, 457356, loc. Recea,
com. Vârșolț, Jud. Sălaj;

Număr declarație de conformitate EVOCERAMIC 24 VB, Categoria I

EVOCERAMIC 24 VB
Procedeu de zidărie termoizolantă realizată cu
blocuri ceramice Cemacon Evoceramic 24 VB
AT 0015B-01433-2019

Utilizare preconizată: realizarea zidărilor termoizolante cu blocuri ceramice
CEMACON EVOCERAMIC 24 VB, pentru pereți de închidere și
compartimentare, structurale.

Folosește acest cod QR pentru
descărcarea Declarației de
Performanță respectiv a documentației
tehnice aferente produsului!
Mai multe detalii pe site-ul nostru:
www.cemacon.ro

Lungime (mm): 430
Lățime (mm): 240
Înălțime (mm): 238
Configurație: conform schemă atașată
Rezistență medie la compresune a blocului ceramic:
1, pe fețele de așezare (N/mm²): min. 10
Clasa de combustibilitate: C0
Clasa de reacție la foc: A1

Categoria I
Ambalare palet
60 buc.
Paletul de transport este
ambalat realizat

SCHIMB
A C D
Lot nr.
2 3 4
5 6 7 8
9 10 11 12

Data emiterii:	
I	II
III	IV
V	VI
VII	VIII
IX	X
XI	XII

