Testing report No 744/2015–AL8.4

Supplement 1

Sound reduction index, R , according to EN ISO 140-3
Laboratory measurements of airborne sound insulation of building elements

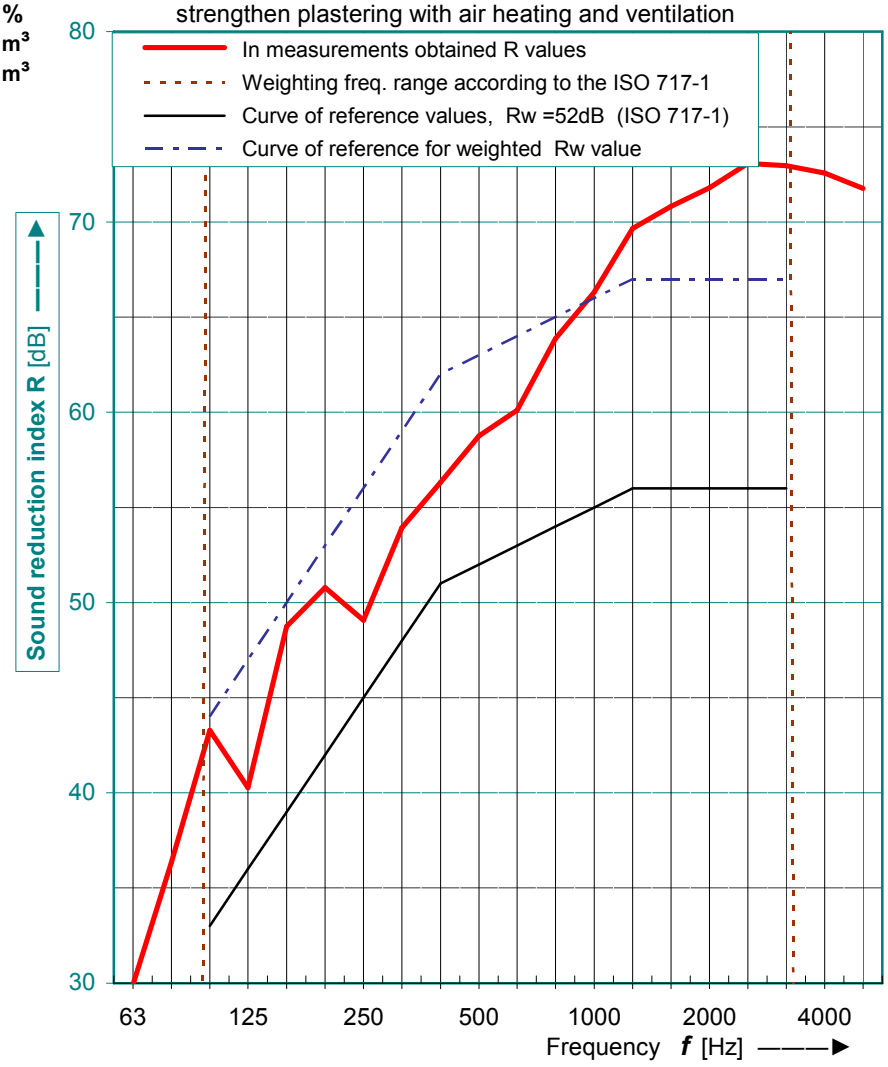
Manufacturer :	AEROC SIA Latvia	**Sample identific. :**	No. 679-2
Client :	AEROC SIA Latvia	**Test room identific. :**	Lab.T-282 Building acoust.chamber
Test specimen mounted by :	AEROC SIA Latvia	**Date of test :**	April 30, 2015

Description of test specimen and arrangement: Double dividing wall —
1) AEROC Plade 90mm, 2) ISOVER rock-wool RKL 50mm,
3) Air intermediate layer 5mm, 4) AEROC Plade 70mm

Area ***S*** of test specimen : **9,9 m²**
Mass per unit area : **89,1 kg/m²**
Air temp. In the test rooms : **15,0 °C**
Air humidity in the test rooms : **71,0 %**
Source room volume : **71,0 m³**
Receiving room volume : **63,4 m³**

Measurements were performed a 3 days after sample plastering and strengthen plastering with air heating and ventilation

Frequency ***f***	***R*** ⅓ octave
[Hz]	[dB]
50	28,7
63	29,9
80	36,4
100	43,3
125	40,3
160	48,7
200	50,8
250	49,1
315	53,9
400	56,3
500	58,7
630	60,1
800	63,9
1000	66,3
1250	69,7
1600	70,8
2000	71,8
2500	73,1
3150	73,0
4000	72,6
5000	71,8
6300	70,9
8000	70,2
10000	68,98



Weighted sound reduction index, ***R***w (***C***;***C***tr), rating according to EN ISO 717-1:

Rw (C;Ctr) = 62 (-2 ; -6) dB

C 50-3150 : **-4 dB** ***C*** 50-5000 : **-3 dB** ***C*** 100-5000 : **-1 dB**

Evaluation based on laboratory measurement results obtained by an engineering method

Ctr 50-3150 : **-13 dB** ***C***tr 50-5000 : **-13 dB** ***C***tr 100-5000 : **-6 dB**

"R&D Akustika" Ltd Acoustics laboratory T-282
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Latvian National Accreditation Bureau (**LATAK**)

Operator signature :_____/ U. Kipens / Date : 25.05.2015.