

Predicted R,w airborne sound insulation index.

Contracting authority: "AEROC" Ltd.

Identification and description :

Type 090-4. "Airoc Plade" blocks wall.

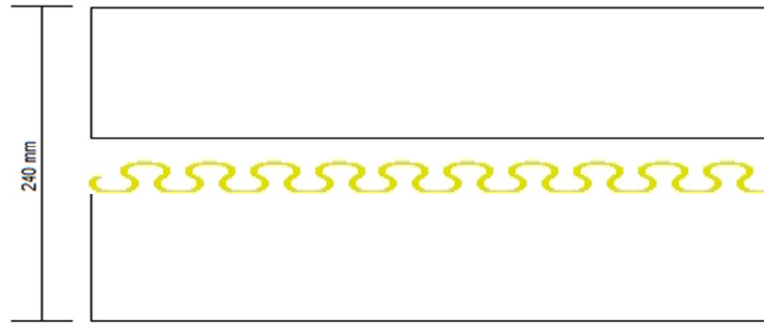
Document reg. Reģ. Nr.090/2015 KM2.1

Thicknes of construction : 240,0 mm

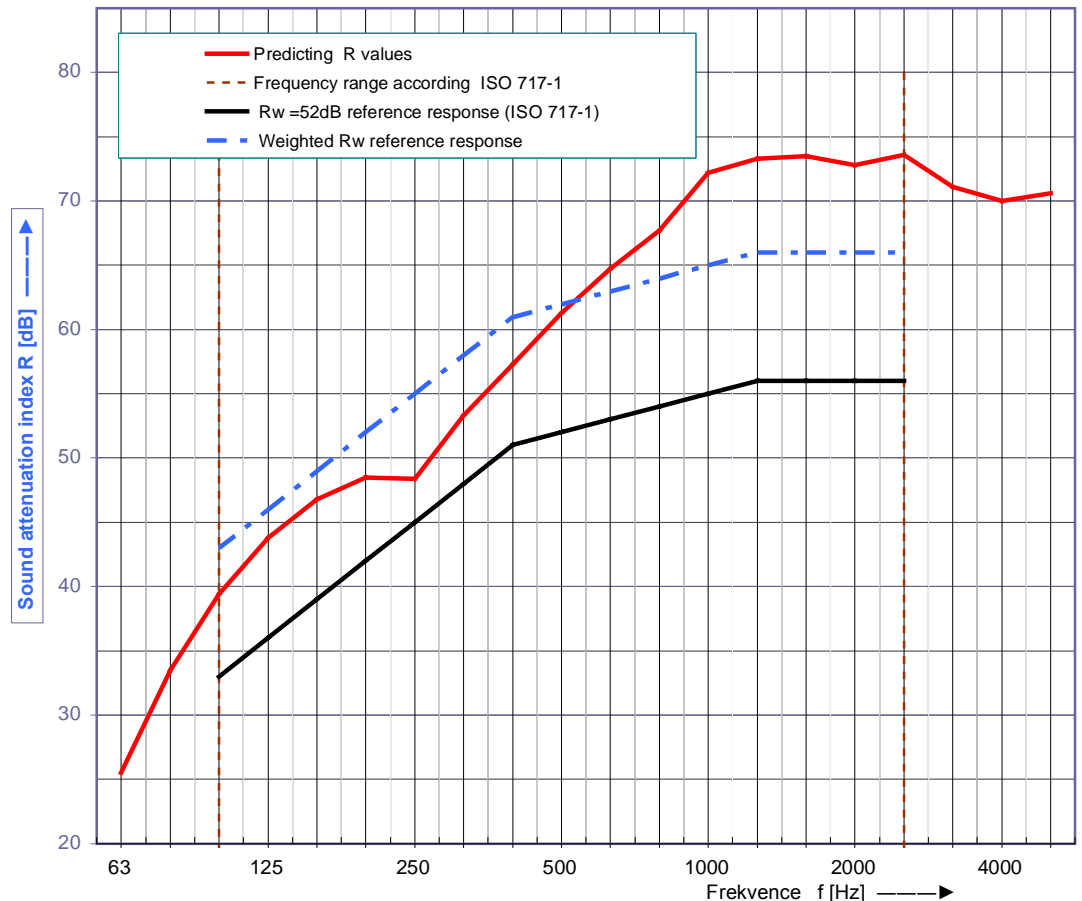
Surface weight : 109,4 kg/m²

identification:

No. and Material	≠ [mm]	ρ [kg/m ³]
1 Aeroc Plade blocks,	100,0	535
2 Mineralwool "Isover RKL"	30,0	80
3 Air gap,	10,0	0
4 Aeroc Plade blocks.	100,0	535
5		
6		



Freq. f [Hz]	R 1/3 oct. [dB]
50	21,1
63	25,5
80	33,5
100	39,4
125	43,8
160	46,8
200	48,5
250	48,4
315	53,3
400	57,3
500	61,3
630	64,7
800	67,7
1000	72,2
1250	73,3
1600	73,5
2000	72,8
2500	73,6
3150	71,1
4000	70,0
5000	70,6
6300	-
8000	-
10000	-



Skaņas izolācijas indekss, R_w (C ; C_{tr}), kas novērtēts atbilstoši LVS ISO 717-1:2000 prasībām :

R_w (C ; C_{tr}) = 62 -2 -7 dB

C 50-3150 = -6 dB C 50-5000 = -5 dB C 100-5000 = -1 dB

Sound insulation index R_w forecasted with error ± 2 dB without sound flanking.

C_{tr} 50-3150 = -7 dB C_{tr} 50-5000 = -19 dB C_{tr} 100-5000 = -7 dB

1) Use software of "Insul", "Bastian", and the laboratory measurement database of "R&D Akustika Ltd. (Report No. 744 / 2015 - AL 8.4)".