SIA * R & D AKUSTIKA *

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# Predicted R,w airborn sound insulation index.

**Contracting authority:** SIA "AEROC"

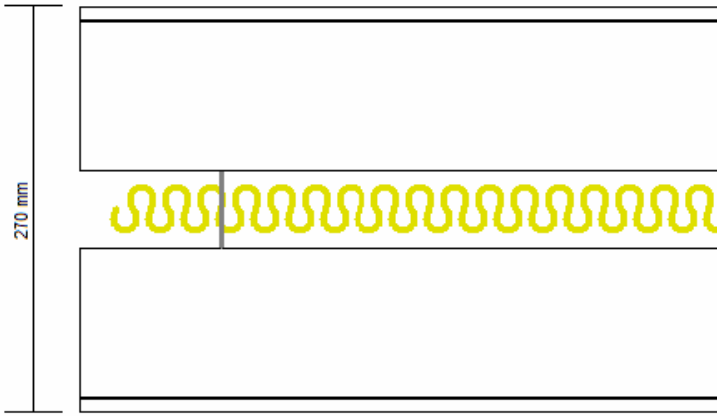
***Identification and description :*** Airoc blocks wall.

**Document reg. identification:** Reģ. Nr.060/2014 KM2.1

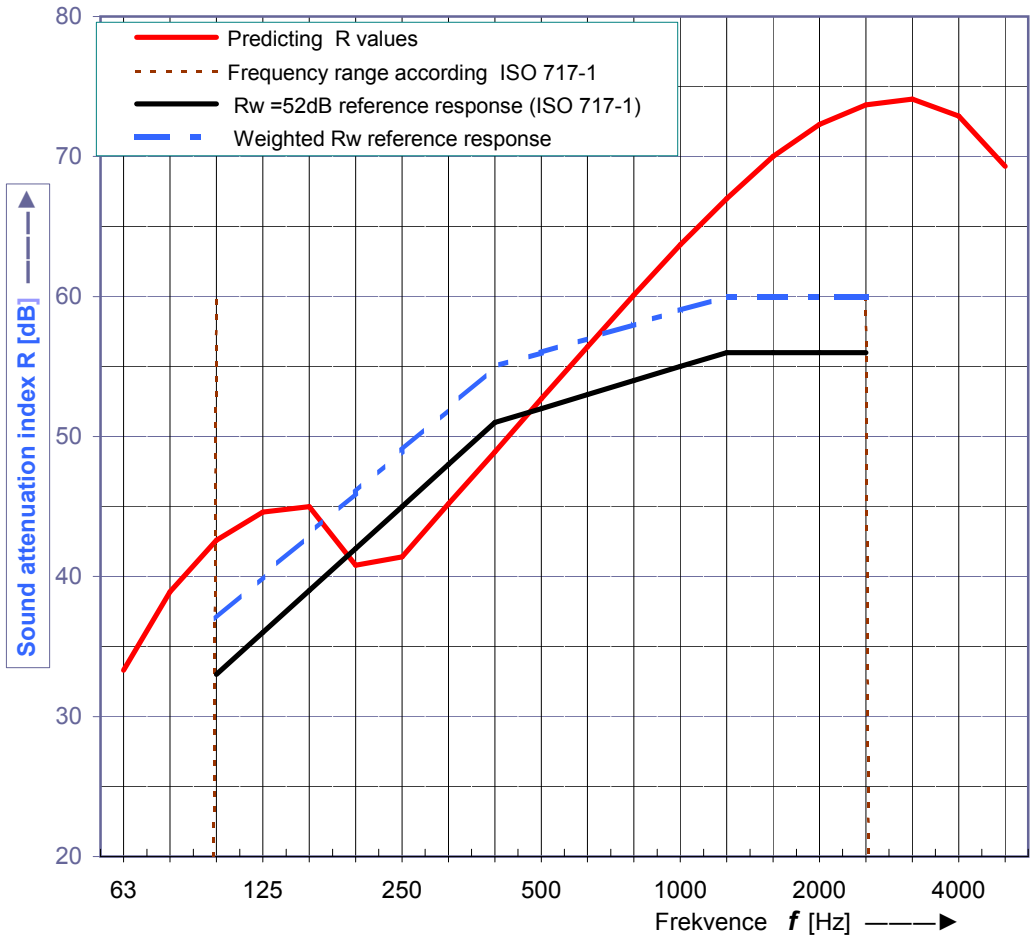
***Thicknes of construction :*** **270,0** **mm**

***Surface weight :*** **138,3** **kg/m²**

| | No. and Material | ≠ [mm] | ρ [kg/m³] |
|---|---|---|---|
| 1 | *Mineral finish* | 10,0 | 1000 |
| 2 | *Aeroc Acoustic* | 100,0 | 575 |
| 3 | Mineralwool "RockWool Panelrock", 50 mm | 50,0 | 65 |
| 4 | *Aeroc Acoustic* | 100,0 | 575 |
| 5 | *Mineral finish* | 10,0 | 1000 |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |




| Freq. f | R ⅓ oct. |
|---|---|
| [Hz] | [dB] |
| 50 | 24,6 |
| **63** | 33,3 |
| 80 | 38,9 |
| 100 | 42,6 |
| **125** | 44,6 |
| 160 | 45,0 |
| 200 | 40,8 |
| **250** | 41,4 |
| 315 | 45,2 |
| 400 | 48,9 |
| **500** | 52,7 |
| 630 | 56,4 |
| 800 | 60,1 |
| **1000** | 63,7 |
| 1250 | 67,0 |
| 1600 | 70,0 |
| **2000** | 72,3 |
| 2500 | 73,7 |
| 3150 | 74,1 |
| **4000** | 72,9 |
| 5000 | 69,3 |
| 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) = **56** **-1** **-5** **dB**

***C*** 50-3150 = **-2 dB** ***C*** 50-5000 = **-1 dB** ***C*** 100-5000 = **0 dB**

***C*** tr 50-3150 = **-5 dB** ***C*** tr 50-5000 = **-10 dB** ***C*** tr 100-5000 = **-5 dB**

Sound insulation index R,w and Ln,W forecasted with error ± 2dB for listed materials and thicknesses.

1) Use of computer programs "Insul", "Bastian", and the laboratory measurement database of "R&D Akustika Ltd.".

Calculation made by: Ltd. "R & D Akustika' project team. Date: 2014.09.15