Sound Insulation

According to ISO 140/3

Authorizing Company: ETEM S.A.

Specimen description:

Single sash side/bottom hung aluminium window E-1000 series

Area: 1.9 m²
Total glazing thickness: 23 mm

Layers:

Thermal insulating glazing
4+15+4 mm
Two rubber seals between sash frame and glazing
Three rubber seals between sash and frame

Test rooms:

Volumes:

\[ V_{source} = 29.7 \text{ m}^3 \]
\[ V_{receiving} = 43.8 \text{ m}^3 \]

Type of room: Laboratory test room
Room condition: Empty
Excitation: White noise
Filter: 1/3 octave

Evaluation according to ISO 717/1

Weighted Sound Reduction Index

\[ R_{W} = 34 \text{ dB} \]

<table>
<thead>
<tr>
<th>f(Hz)</th>
<th>100</th>
<th>125</th>
<th>160</th>
<th>200</th>
<th>250</th>
<th>315</th>
<th>400</th>
<th>500</th>
<th>630</th>
<th>800</th>
<th>1000</th>
<th>1250</th>
<th>1600</th>
<th>2000</th>
<th>2500</th>
<th>3150</th>
</tr>
</thead>
<tbody>
<tr>
<td>R(dB)</td>
<td>23.2</td>
<td>23.8</td>
<td>29.8</td>
<td>21.1</td>
<td>22.7</td>
<td>26.0</td>
<td>28.6</td>
<td>32.0</td>
<td>35.8</td>
<td>38.7</td>
<td>40.3</td>
<td>43.0</td>
<td>44.0</td>
<td>45.0</td>
<td>40.8</td>
<td>29.7</td>
</tr>
</tbody>
</table>

Test number: A5.345.04

Date of test: 23.04.2004 C

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Director: E. Tzekakis

Signature