SOUND TRANSMISSION LOSS TEST REPORT NO. TL13-376 revision 1

CLIENT: MI Windows & Doors
7555 E State Route 69
Prescott, AZ 86314

TEST DATE: 8 July 2013

INTRODUCTION

Western Electro-Acoustic Laboratory is accredited by the United States Department of Commerce, National Institute of Standards and Technology under the National Voluntary Accreditation Program (NVLAP) Lab Code 100256-0 for this test procedure. This test report relates only to the item(s) tested.

This report must not be used to claim product certification, approval, or endorsement by WEAL, NVLAP, NIST or any agency of the federal government.

DESCRIPTION OF TEST SPECIMEN
The test specimen was a MI Windows HM-155 (also labeled as BB-155 and EC-155) vinyl fixed window assembly. The specimen was installed by fastening the mounting fin around the entire perimeter to the wood edge of the test chamber opening. The assembly was sealed into the test chamber opening with latex caulking under the mounting fin and a heavy duct seal putty around the entire perimeter on the receiving room side. The glazing consisted of a 19 mm (3/4 inch) dual glazed unit which was 3 mm (1/8 inch) double strength exterior glass, 13 mm (1/2 inch) air space with a Superspacer, and 3 mm (1/8 inch) double strength interior glass. The unit was glazed into the main frame using glazing tape and a vinyl snap in bead. The net outside frame dimensions of the window assembly were 1.82 m (71-1/2 inches) wide by 1.21 m (47-1/2 inches) high by 82.6 mm (3-1/4 inches) deep. The overall weight of the assembly was 38.6 kg. (85 lbs.) for a calculated surface density of 17.6 kg/m² (3.60 lbs./ft²). The weep holes were normal without covers.

RESULTS OF THE MEASUREMENTS
One-third octave band sound transmission loss values are plotted and tabulated on the attached sheet. ASTM minimum volume requirements are met at 80 Hz and above. The Outdoor-Indoor Transmission Class rating determined in accordance with ASTM E 1332-10a was OITC-24. The Sound Transmission Class rating determined in accordance with ASTM E 413-10 was STC-29.

Approved:

\[ Signature \]
Gary E. Mange
Laboratory Director

Respectfully submitted,
Western Electro-Acoustic Laboratory

\[ Signature \]
Raul Martinez
Acoustical Test Technician
Transmission Loss in Decibels

<table>
<thead>
<tr>
<th>1/3 OCT BND CNTR FREQ</th>
<th>63</th>
<th>80</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>
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</thead>
<tbody>
<tr>
<td>TL in dB</td>
<td>21</td>
<td>22</td>
<td>24</td>
<td>21</td>
<td>21</td>
<td>20</td>
<td>17</td>
<td>17</td>
<td>21</td>
<td>25</td>
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<tr>
<td>95% Confidence in dB</td>
<td>1.42</td>
<td>1.92</td>
<td>2.07</td>
<td>1.47</td>
<td>0.89</td>
<td>0.76</td>
<td>0.80</td>
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<tr>
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<th>1000</th>
<th>1250</th>
<th>1600</th>
<th>2000</th>
<th>2500</th>
<th>3150</th>
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<td>32</td>
<td>34</td>
<td>37</td>
<td>38</td>
<td>39</td>
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<td>30</td>
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<tr>
<td>95% Confidence in dB</td>
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<td>0.44</td>
<td>0.38</td>
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<td>0.56</td>
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<td>0.31</td>
<td>0.32</td>
<td>0.50</td>
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</tbody>
</table>

EWR 30 OITC 24

Specimen Area: 23.59 sq.ft.
Temperature: 76.5 deg. F
Relative Humidity: 42%
Test Date: 08 July 2013

STC 29

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