
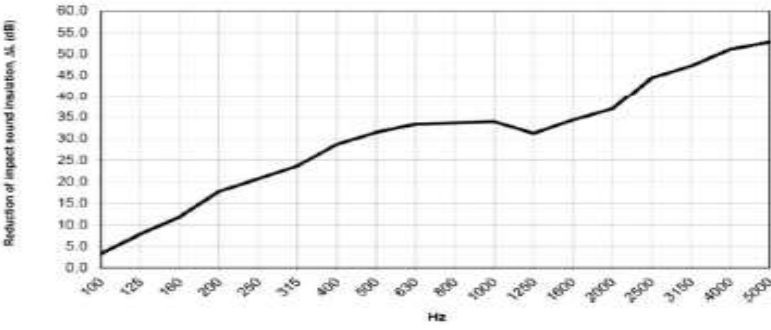


בדיקה אקוסטית - IZOSOUND



נספח A - עמוד 1

 <b>IZOSOUND</b> laboratories Ltd.	<b>Brüel &amp; Kjær</b> Floor covering: Improvement of impact sound insulation ISO 10140-1 Annex H	Test report page: 1																																																																																																																																																																																																																																																																
		Test reference: ISO 10140 1-5 1320-2 Test date: 25/8/2017 Operator: David																																																																																																																																																																																																																																																																
<b>Laboratory test facilities:</b> Reception room volume: 52.93 m <sup>3</sup> Reception room surface: 85.5 m <sup>2</sup> Exposed surface: 15 m <sup>2</sup>	<b>Average sound pressure level:</b> Microphone positions: <b>BF</b> 6 <b>BFWFC</b> 6 Source positions: 4 4 Linear averaging time: 30 s 30 s Spatially independent positions: 24 24	<b>Reverberation time:</b> Microphone positions: <b>BF</b> 6 <b>BFWFC</b> 6 Source positions: 1 1 Number of repetition: 2 2 Number of decay curves: 12 12																																																																																																																																																																																																																																																																
<b>Test specimen supplier:</b> תיבת תדמית <b>Test specimen reference:</b> XPE FOAM FR (ג'ר) 40 אקוסט-יס <b>Test specimen category:</b> 2 <b>Test specimen curing period:</b> 2 days <b>Test specimen description:</b> יריעת פוליאורית עבה בעלת 1000X1500 מ"מ וספיג 50 מ"מ																																																																																																																																																																																																																																																																		
<b>Weighted impact sound insulation of the reference floor</b> $L_{n,w,r} (C_{1,r}) = 48 (3) \text{ dB}$ <b>Weighted reduction of impact sound insulation</b> $\Delta L_w (\Delta L_{C1}) = 30 (16) \text{ dB}$																																																																																																																																																																																																																																																																		
																																																																																																																																																																																																																																																																		
<table border="1"> <thead> <tr> <th rowspan="2">Frequency Hz</th> <th colspan="5">Bare floor</th> <th colspan="5">Bare floor with floor covering</th> <th rowspan="2"><math>\Delta L</math> dB</th> </tr> <tr> <th><math>L_{w,r}</math> dB</th> <th><math>B_{w,r}</math> dB</th> <th><math>T_{60}</math> s</th> <th><math>L_{w,r}</math> dB</th> <th><math>A_{0.5}</math> m<sup>2</sup></th> <th><math>L_{w,r}</math> dB</th> <th><math>B_{w,r}</math> dB</th> <th><math>T_{60}</math> s</th> <th><math>L_{w,r}</math> dB</th> <th><math>A_{0.5}</math> m<sup>2</sup></th> </tr> </thead> <tbody> <tr><td>100</td><td>60.7</td><td>51.6</td><td>1.27</td><td>60.7</td><td>6.6</td><td>57.5</td><td>51.9</td><td>1.20</td><td>57.5</td><td>6.6</td><td>58.9</td><td>3.3</td></tr> <tr><td>125</td><td>63.2</td><td>54.7</td><td>1.72</td><td>63.2</td><td>4.9</td><td>56.1</td><td>28.5</td><td>2.01</td><td>56.1</td><td>4.2</td><td>60.1</td><td>7.8</td></tr> <tr><td>160</td><td>65.5</td><td>51.8</td><td>1.99</td><td>65.5</td><td>4.2</td><td>53.6</td><td>31.8</td><td>1.76</td><td>53.6</td><td>4.9</td><td>62.2</td><td>11.8</td></tr> <tr><td>200</td><td>68.4</td><td>51.3</td><td>1.75</td><td>68.4</td><td>4.8</td><td>50.6</td><td>21.8</td><td>1.72</td><td>50.6</td><td>4.9</td><td>65.2</td><td>17.7</td></tr> <tr><td>250</td><td>70.5</td><td>50.7</td><td>1.80</td><td>70.0</td><td>4.6</td><td>48.8</td><td>23.8</td><td>1.96</td><td>48.5</td><td>5.3</td><td>66.7</td><td>20.6</td></tr> <tr><td>315</td><td>69.4</td><td>47.0</td><td>1.61</td><td>69.4</td><td>5.1</td><td>45.8</td><td>17.2</td><td>1.98</td><td>45.6</td><td>5.2</td><td>68.5</td><td>23.7</td></tr> <tr><td>400</td><td>71.5</td><td>43.6</td><td>1.55</td><td>71.5</td><td>5.2</td><td>42.8</td><td>15.1</td><td>1.99</td><td>42.2</td><td>5.2</td><td>68.6</td><td>28.6</td></tr> <tr><td>500</td><td>72.7</td><td>42.1</td><td>1.40</td><td>72.7</td><td>5.0</td><td>41.3</td><td>12.7</td><td>1.88</td><td>41.3</td><td>5.1</td><td>70.3</td><td>31.6</td></tr> <tr><td>630</td><td>73.4</td><td>39.3</td><td>1.50</td><td>73.4</td><td>5.4</td><td>39.6</td><td>8.5</td><td>1.38</td><td>39.6</td><td>5.9</td><td>70.7</td><td>33.3</td></tr> <tr><td>800</td><td>74.3</td><td>38.8</td><td>1.47</td><td>74.3</td><td>5.5</td><td>40.5</td><td>8.4</td><td>1.42</td><td>40.5</td><td>5.7</td><td>71.7</td><td>33.8</td></tr> <tr><td>1000</td><td>76.1</td><td>37.5</td><td>1.46</td><td>76.1</td><td>5.3</td><td>41.7</td><td>7.6</td><td>1.34</td><td>41.7</td><td>6.0</td><td>73.4</td><td>33.9</td></tr> <tr><td>1250</td><td>78.7</td><td>37.9</td><td>1.58</td><td>78.7</td><td>5.7</td><td>45.5</td><td>7.4</td><td>1.36</td><td>45.5</td><td>5.9</td><td>74.3</td><td>31.2</td></tr> <tr><td>1600</td><td>75.5</td><td>37.1</td><td>1.58</td><td>75.9</td><td>5.7</td><td>41.4</td><td>6.6</td><td>1.34</td><td>41.4</td><td>5.9</td><td>73.4</td><td>34.5</td></tr> <tr><td>2000</td><td>76.8</td><td>36.8</td><td>1.38</td><td>76.5</td><td>5.8</td><td>39.6</td><td>6.2</td><td>1.38</td><td>39.6</td><td>5.6</td><td>74.0</td><td>36.9</td></tr> <tr><td>2500</td><td>76.9</td><td>36.5</td><td>1.40</td><td>76.9</td><td>5.4</td><td>32.4</td><td>6.2</td><td>1.37</td><td>32.4</td><td>5.5</td><td>74.2</td><td>44.8</td></tr> <tr><td>3150</td><td>76.9</td><td>36.1</td><td>1.36</td><td>76.9</td><td>5.2</td><td>29.5</td><td>7.5</td><td>1.33</td><td>29.5</td><td>5.4</td><td>74.1</td><td>47.2</td></tr> <tr><td>4000</td><td>76.2</td><td>37.1</td><td>1.50</td><td>76.0</td><td>5.2</td><td>24.8</td><td>7.1</td><td>1.29</td><td>24.8</td><td>5.3</td><td>73.1</td><td>51.1</td></tr> <tr><td>5000</td><td>73.9</td><td>36.1</td><td>1.19</td><td>73.9</td><td>5.4</td><td>21.2</td><td>7.8</td><td>1.17</td><td>21.0</td><td>5.5</td><td>71.2</td><td>52.8</td></tr> </tbody> </table> <p>Measured at 27.5 °C, 48.6 % and 100 dBA Pa. Measured at 27.1 °C, 50.3 % and 100 dBA Pa.</p>			Frequency Hz	Bare floor					Bare floor with floor covering					$\Delta L$ dB	$L_{w,r}$ dB	$B_{w,r}$ dB	$T_{60}$ s	$L_{w,r}$ dB	$A_{0.5}$ m <sup>2</sup>	$L_{w,r}$ dB	$B_{w,r}$ dB	$T_{60}$ s	$L_{w,r}$ dB	$A_{0.5}$ m <sup>2</sup>	100	60.7	51.6	1.27	60.7	6.6	57.5	51.9	1.20	57.5	6.6	58.9	3.3	125	63.2	54.7	1.72	63.2	4.9	56.1	28.5	2.01	56.1	4.2	60.1	7.8	160	65.5	51.8	1.99	65.5	4.2	53.6	31.8	1.76	53.6	4.9	62.2	11.8	200	68.4	51.3	1.75	68.4	4.8	50.6	21.8	1.72	50.6	4.9	65.2	17.7	250	70.5	50.7	1.80	70.0	4.6	48.8	23.8	1.96	48.5	5.3	66.7	20.6	315	69.4	47.0	1.61	69.4	5.1	45.8	17.2	1.98	45.6	5.2	68.5	23.7	400	71.5	43.6	1.55	71.5	5.2	42.8	15.1	1.99	42.2	5.2	68.6	28.6	500	72.7	42.1	1.40	72.7	5.0	41.3	12.7	1.88	41.3	5.1	70.3	31.6	630	73.4	39.3	1.50	73.4	5.4	39.6	8.5	1.38	39.6	5.9	70.7	33.3	800	74.3	38.8	1.47	74.3	5.5	40.5	8.4	1.42	40.5	5.7	71.7	33.8	1000	76.1	37.5	1.46	76.1	5.3	41.7	7.6	1.34	41.7	6.0	73.4	33.9	1250	78.7	37.9	1.58	78.7	5.7	45.5	7.4	1.36	45.5	5.9	74.3	31.2	1600	75.5	37.1	1.58	75.9	5.7	41.4	6.6	1.34	41.4	5.9	73.4	34.5	2000	76.8	36.8	1.38	76.5	5.8	39.6	6.2	1.38	39.6	5.6	74.0	36.9	2500	76.9	36.5	1.40	76.9	5.4	32.4	6.2	1.37	32.4	5.5	74.2	44.8	3150	76.9	36.1	1.36	76.9	5.2	29.5	7.5	1.33	29.5	5.4	74.1	47.2	4000	76.2	37.1	1.50	76.0	5.2	24.8	7.1	1.29	24.8	5.3	73.1	51.1	5000	73.9	36.1	1.19	73.9	5.4	21.2	7.8	1.17	21.0	5.5	71.2	52.8
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