

**Normalized impact noise level on heavy weight reference floor with overlay,  $L_n$  STANDAR LVS EN ISO 10140-3**  
**Building element sound insulation measurements in laboratory. Part 3: impact sound insulation measurement.**

<b>Customer:</b> "Pepi Rer" Ltd	<b>Measurement date:</b> 2014.g. 31. july
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**Object identification and description:**

Mass of the sample area	<b>9,9</b>	<b>kg/m<sup>2</sup></b>
Withstand time	<b>&gt;3</b>	<b>h</b>
Volume receiver chamber	<b>69,5</b>	<b>m<sup>3</sup></b>
Total area	<b>22,6</b>	<b>m<sup>2</sup></b>
Samples area	<b>1,1</b>	<b>m<sup>2</sup></b>
Temperature:	<b>23,0</b>	<b>°C</b>
Relative air humidity:	<b>78,0</b>	<b>%</b>

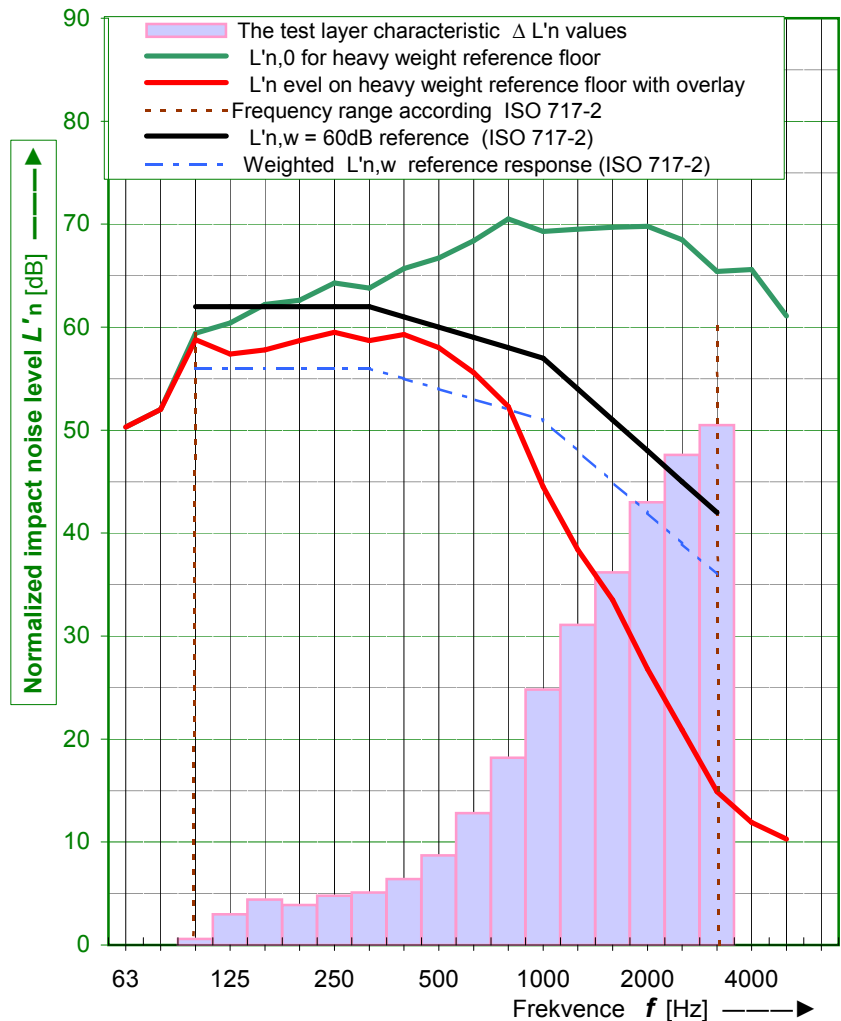
**Reference floor :** 220 mm hollow reinforced concrete panel+  
+ 20 mm concrete floor

**Sample Nr. 07/050/2014 :**

**Test layer - "ProVent" - underlay for laminated flooring and parquet.**

**Cover the top test layer floating floor - 1m<sup>2</sup> 14 mm parquet floor.**

Frekvence $f$	$L'_{n,0}$ Ref.pārs 1/3 okt	$L'_n$ Parauga 1/3 okt	$\Delta L'_n$ 1/3 okt
[Hz]	[dB]	[dB]	[dB]
50	52,5	52,5	
<b>63</b>	50,3	50,3	
80	52	52,0	
100	59,4	58,8	0,6
<b>125</b>	60,4	57,4	3,0
160	62,2	57,8	4,4
200	62,6	58,7	3,9
<b>250</b>	64,3	59,5	4,8
315	63,8	58,7	5,1
400	65,7	59,3	6,4
<b>500</b>	66,7	58,0	8,7
630	68,4	55,6	12,8
800	70,5	52,3	18,2
<b>1000</b>	69,3	44,5	24,8
1250	69,5	38,4	31,1
1600	69,7	33,5	36,2
<b>2000</b>	69,8	26,8	43,0
2500	68,5	20,9	47,6
3150	65,4	14,9	50,5
<b>4000</b>	65,6	11,9	
5000	61,1	10,3	



Reduced impact noise level,  $L'_{n,w}$  (  $C_1$  ), weighted accordance with LVS ISO 717-2 requirements:

$L'_{n,w}$ ( $C_1$ ) = <b>54 ( -1 ) dB</b>	;	$C_1$ 50-2500 = <b>-1</b> dB	$L'_{n,o,w}$ = <b>75</b> dB	$C_{1, \Delta}$ = <b>-10</b> dB
		$\Delta L'_{n,w}$ = <b>21</b> dB	$\Delta L'_{lin}$ = <b>11</b> dB	

Estimated based on the results of engineering measurements 1/3 octave bands in the laboratory

**Identification Test room:** room Nr. 305, Nr.205

Date 2014.08.01.

Measurements are performed: "R&D Akustika" Ltd.