

## Estimated Weighted Normalised Impact Sound Pressure Field Measurements of Impact Sound Insulation of Floor/Ceiling

Client: The Wellington Company

Date of test: 23/03/2023



**Description and identification of the building construction and test arrangement:**

114 The Terrace Conference Room L11 to Mock-up unit L10 (Floor/Ceiling)

Base Slab + 1mm floorMuffler LVT + 8.5mm Metroflor Genesis (LVP)

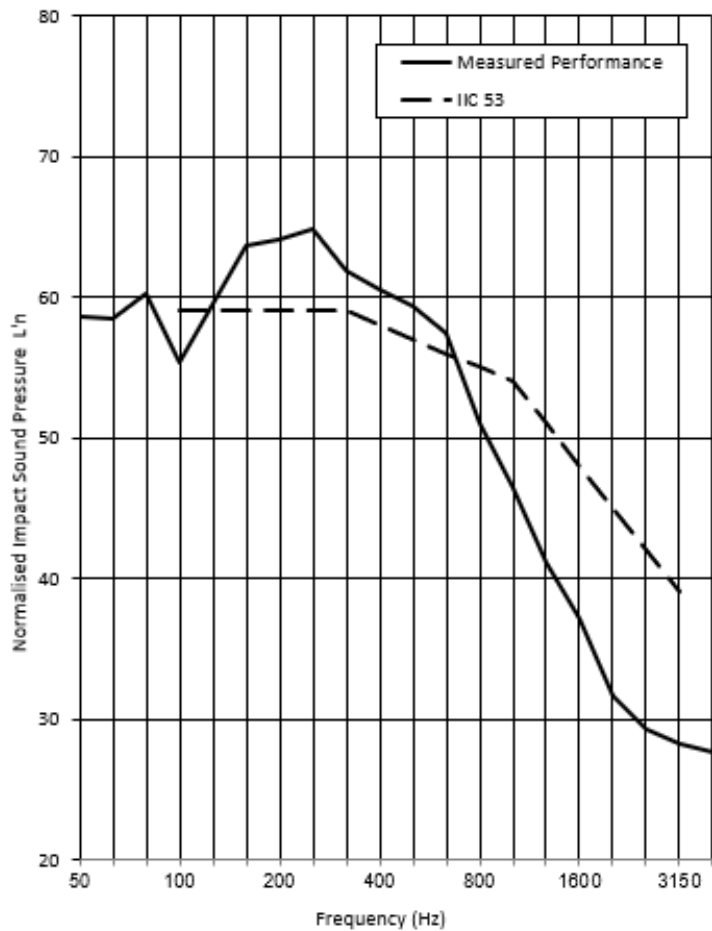
**Notes:**

The measurement was not carried out in accordance with ASTM E492-90

Area of Test Partition (m <sup>2</sup> )	N/A
Source Room Volume (m <sup>3</sup> )	53.7
Receiving Room Volume (m <sup>3</sup> )	120

Frequency (Hz)	L'n (dB)	Adverse Deviation (dB)	Receiving RT (s)
50	58.7		2.6
63	58.5		2.1
80	60.3		1.6
100	55.4		2.9
125	59.5	0.5	2.6
160	63.7	4.7	1.8
200	64.1	5.1	2.3
250	64.9	5.9	2.1
315	61.9	2.9	2.6
400	60.5	2.5	2.6
500	59.4	2.4	2.9
630	57.4	1.4	3.1
800	51.0		3.0
1000	46.4		2.9
1250	41.1		2.8
1600	37.1		2.7
2000	31.7		2.3
2500	29.3		2.0
3150	28.2		1.6
4000	27.7		1.5
<b>Sum of Adverse Deviations</b>			<b>25.4</b>

**Bold results indicate limits of measurement (background noise level interference)**



Rating according to ASTM E989-89

Temperature & Relative Humidity: 20/80

**IIC = 53 dB**

**C<sub>i100-3150</sub> = N/A**

Evaluation based on field measurement results obtained in one-third-octave bands by an engineering method

No. of test report: Config 2

Name of test institute: Marshall Day Acoustics

Date: 28/04/2023

Engineer: Harry Bartley