



Acoustical Testing Laboratory



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TEST REPORT

for

Unifloor Underlay Systems BV
Munsterstraat 24
7418EV DEVENTER
The Netherlands
Gerry Maatjes/ 31 570 85 55 33

Impact Sound Transmission Test
ASTM E 492 - 90 / ASTM E 989 - 89
On

**Floating MDF Laminate Floor Covering over REDUPAX Underlayment
Installed over 6" Concrete Slab**

Page 1 of 4

Report Number: NGC 7003011

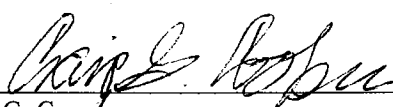
Assignment Number: G-171

Specimen Receipt Date: 03/17/2003

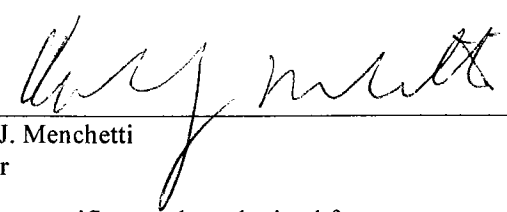
Test Date: 03/19/2003

Report Date: 03/26/2003

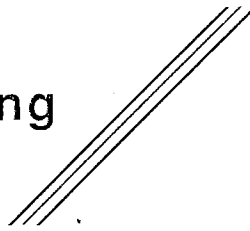
Submitted by:


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Report Number: NGC 7003011

Test Method: This test method is in accordance with American Society for Testing and Materials Standard Test Method for Laboratory Measurement of Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine - Designation: E 492 – 90.

Specimen Description: Floating MDF Laminated Floor Covering over UNIFLOOR by Deventer 'REDUPAX' Underlayment installed over 6" Concrete Slab.

The test specimen was a floor-ceiling assembly consisting of the following:

- 1 layer of MDF Laminate Lock T & G flooring boards, each 1200 mm (47-1/4") x 185.7 mm (7-5/16") x 7.9 mm (5/16"), 6.64 kg/m² (1.36PSF)
- 1 layer of 8 mm (0.31") thick 'REDUPAX' pressed fibrous material underlayment panels, 56 mm (22") x 79 mm (31"), 4.15 kg/m² (0.85 PSF) installed with the long dimension perpendicular to the finish floor board direction.
- 1 layer of 0.1 mm (0.004") plastic sheeting.
- 6" thick reinforced concrete slab, 366 kg/m² (75.00 PSF)

The overall weight of the test assembly is 376.9 kg/m² (77.21PSF).

The perimeter of the concrete slab was sealed with fiber gasketing and a sand filled trough. The test assembly is structurally isolated from the receiving room.

Specimen size: 3.66 m x 4.88 m (12 ft x 16 ft).

Conditioning: Concrete slab cured for a minimum of 28 days.

Test Results: The results of the tests are given on pages 3 and 4.

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Normalized impact sound pressure level						
Test: ASTM E 492 - 90 / ASTM E 989 - 89						
Test Number: NGC7003011					Date: 03/20/2003	
Size: 17.8 m ²						
Source room			Receiving room			
Temperature [°C]: 19.6			Volume V = 49.0 m ³			
Humidity [%]: 37			Temperature [°C]: 20.0			
			Humidity [%]: 59			
Impact Insulation Class IIC = 52 dB						
Sum of unfavourable deviations: 24.0 dB						
Max. unfavourable deviation: 8.0 dB at 160 Hz						
Frequency	L _n	L ₂	T	Corr.	u.Dev.	ΔL _n
[Hz]	[dB]	[dB]	[s]	[dB]	[dB]	
100	61.0	66.4	2.69	-5.4	1.0	0.222
125	64.0	68.9	2.64	-4.9	4.0	0.166
160	68.0	73.4	2.60	-5.4	8.0	0.225
200	66.0	71.3	2.93	-5.3	6.0	0.146
250	65.0	70.9	2.94	-5.9	5.0	0.121
315	57.0	62.4	2.94	-5.4	--	0.099
400	59.0	64.4	2.76	-5.4	--	0.084
500	56.0	60.8	2.46	-4.8	--	0.083
630	54.0	58.5	2.43	-4.5	--	0.071
800	47.0	51.8	2.64	-4.8	--	0.060
1000	43.0	48.5	2.61	-5.5	--	0.057
1250	37.0	41.2	2.13	-4.2	--	0.060
1600	33.0	36.6	1.96	-3.6	--	0.062
2000	28.0	31.8	1.76	-3.8	--	0.054
2500	22.0	25.1	1.57	-3.1	--	0.056
3150	17.0	19.9	1.44	-2.9	--	0.055
4000	15.0	17.5	1.26	-2.5	--	0.043
5000	12.0	13.8	1.13	-1.8	--	0.046
<p>L_n = Normalized Sound Pressure Level, dB L₂ = Receiving Room Level, dB T = Reverberation Time, seconds ΔL_n = Uncertainty for 95% Confidence Level</p>						

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