



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

**Linoleum Sheet Floor Covering over JUMPAX Underlayment
Installed over 6" Concrete Slab**

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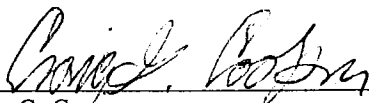
Report Number: NGC 7003012

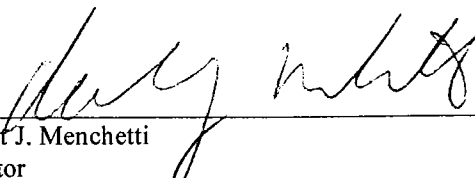
Assignment Number: G-171

Specimen Receipt Date: 03/17/2003

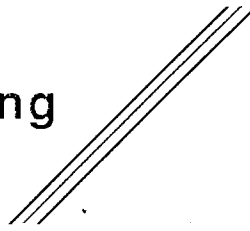
Test Date: 03/20/2003

Report Date: 03/26/2003

Submitted by: 
Craig G. Cooper
Test Engineer

Reviewed by: 
Robert J. Menchetti
Director

The results reported above apply to specific samples submitted for measurement.
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Report Number: NGC 7003012

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: Linoleum Sheet Floor Covering over UNIFLOOR by Deventer 'JUMPAX' Dual Underlayment System installed over 6" Concrete Slab.

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

- 1 layer of 2.0 mm (0.08") Forbo Marmoleum Linoleum PN 3077 sheet flooring, 2.64 kg/m² (0.54 PSF)
- 1 layer of Forbo L910 flooring adhesive.
- Dual Layer Underlayment System:
 - Top layer of 4 mm (5/32") thick pressed fibrous material underlayment panels, 1200 mm (47-5/16") x 60 mm (23-5/8"), 3.07 kg/m² (0.63 PSF).
 - Bottom layer a laminate of 3.2 mm (1/8") pressed fibrous material board with adhesive on the top side and 1.6 mm (1/16") foil backed white foam material attached to the bottom side, 2.64 kg/m² (0.54 PSF).
- 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 374.5 kg/m² (76.71PSF).

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: Underlayment - 3.66 m x 4.88 m (12 ft x 16 ft).
Linoleum - 2 m x 4.5m (6.5 ft x 14.75 ft) centered over the underlayment.

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						
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Test Number: NGC7003012			Date: 03/20/2003			
Size: 17.8 m ²						
Source room			Receiving room			
Temperature [°C]: 20.1			Volume V = 49.0 m ³			
Humidity [%]: 38			Temperature [°C]: 20.2			
			Humidity [%]: 58			
Impact Insulation Class IIC = 51 dB						
Sum of unfavourable deviations: 26.0 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	60.0	65.5	2.69	-5.5	--	0.222
125	65.0	69.9	2.64	-4.9	4.0	0.166
160	69.0	74.2	2.60	-5.2	8.0	0.225
200	67.0	72.5	2.93	-5.5	6.0	0.146
250	69.0	75.2	2.94	-6.2	8.0	0.121
315	60.0	66.2	2.94	-6.2	--	0.099
400	59.0	64.6	2.76	-5.6	--	0.084
500	53.0	57.8	2.46	-4.8	--	0.083
630	52.0	56.7	2.43	-4.7	--	0.071
800	45.0	50.5	2.64	-5.5	--	0.060
1000	41.0	46.5	2.61	-5.5	--	0.057
1250	32.0	36.6	2.13	-4.6	--	0.060
1600	26.0	29.5	1.96	-3.5	--	0.062
2000	20.0	23.5	1.76	-3.5	--	0.054
2500	16.0	18.7	1.57	-2.7	--	0.056
3150	12.0	14.7	1.44	-2.7	--	0.055
4000	10.0	11.9	1.26	-1.9	--	0.043
5000	11.0	12.1	1.13	-1.1	--	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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