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May 24, 2004

FIELD IMPACT INSULATION CLASS (FIIC) REPORT

TEST DATE: May 2, 2004

LOCATION: Villaggio on Yarrow Bay, 4331 Lake Washington Blvd. SE, Kirkland, WA.

TEST SPECIMEN: Pergo Laminated Wood Floor over Redupax +

FIIC: 56

FLOOR/CEILING ASSEMBLY:

The floor/ceiling assembly consisted of Pergo laminated wood floor over Redupax +, 1-1/2" Gyp-Crete over plywood subfloor, 2"x10" wood joists 16" on center, Resilient Channel and 5/8" gypsum board ceiling. The joist cavities was filled with 3.5" batt insulation.

MEASUREMENT AND RESULTS PROCEDURE

The procedure used in the test was made in conformance with ASTM Designations E1007-97, "Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission Through Floor-Ceiling Assemblies and Associated Supported Structures." The FIIC value was determined using the typical IIC contour from ASTM Designation E989-89, "Standard Classification for Determination of Impact Insulation Class (IIC)."

TEST EQUIPMENT

- 1) Larson Davis Model 2900B Real Time Sound Level Meter S/N 0990
- 2) Larson Davis Microphone Model 2559 S/N 2757
- 3) Larson Davis Preamp Model 900C S/N 0690
- 4) Larson Davis Calibrator Model CAL200 S/N 2306
- 5) Scantek Tapping Machine Type 211 No. 20487
- 6) JBL Speaker No. 1562-01284

MEASUREMENT RESULTS

The Field Impact Insulation Class (FIIC) of the floor/ ceiling assembly was computed in accordance with ASTM E989-89 and ASTM E492-90 and was found to be 56. A graphical and tabular presentation of the data are shown below.

Freq. (Hz)	L_n (dB)	Def. (dB)	Freq. (Hz)	L_n (dB)	Def. (dB)
100	61	3	630	47	0
125	63	5	800	42	0
160	62	4	1000	38	0
200	64	6	1250	33	0
250	64	6	1600	32	0
315	62	4	2000	30	0
400	56	0	2500	29	0
500	52	0	3150	24	0

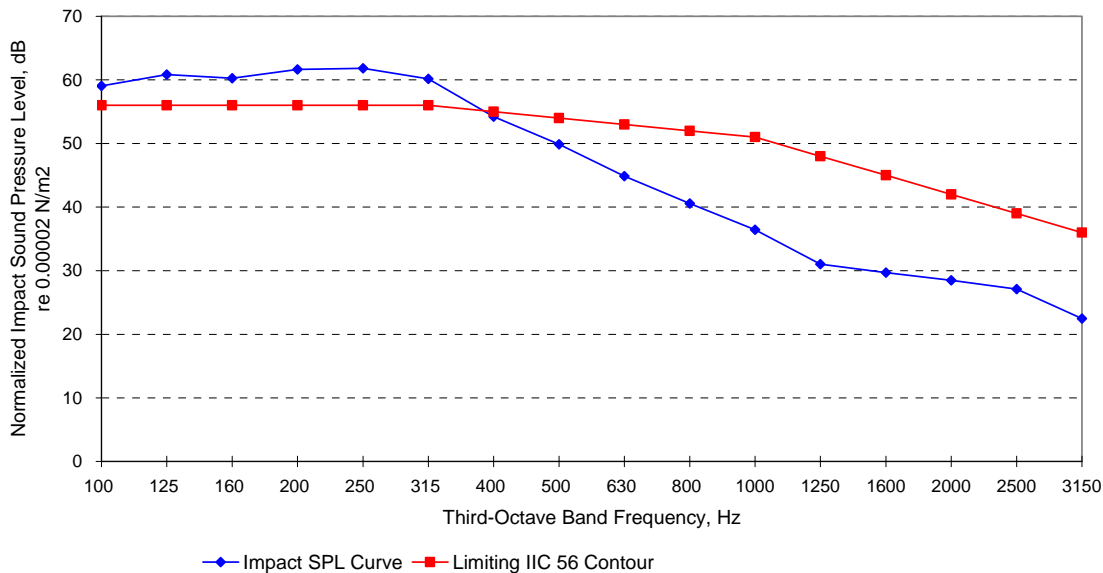
Abbreviation Notes:

Freq. - 1/3 Octave Band Center Frequencies in hertz

L_n - Normalized Impact Sound Pressure Level in decibel

Def. - Deficiencies

FIIC
Villagio Apartments
Finish Floor: Laminated Wood Floor (Pergo)
Pad Underlayment: Redupax+



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