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May 14, 2003

FIELD IMPACT INSULATION CLASS (FIIC) REPORT

TEST DATE: May 13, 2003

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

TEST SPECIMEN: Engineered Hard Wood over Redupax

FIIC: 54

FLOOR/CEILING ASSEMBLY:

The floor/ceiling assembly consisted of engineered hard wood over Redupax, 1-1/2" Gyp-Crete over plywood subfloor, 2 x 10 wood joists 16" on center, Resilient Channel and 5/8" gypsum board ceiling. The joist cavities was filled with 6 " 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

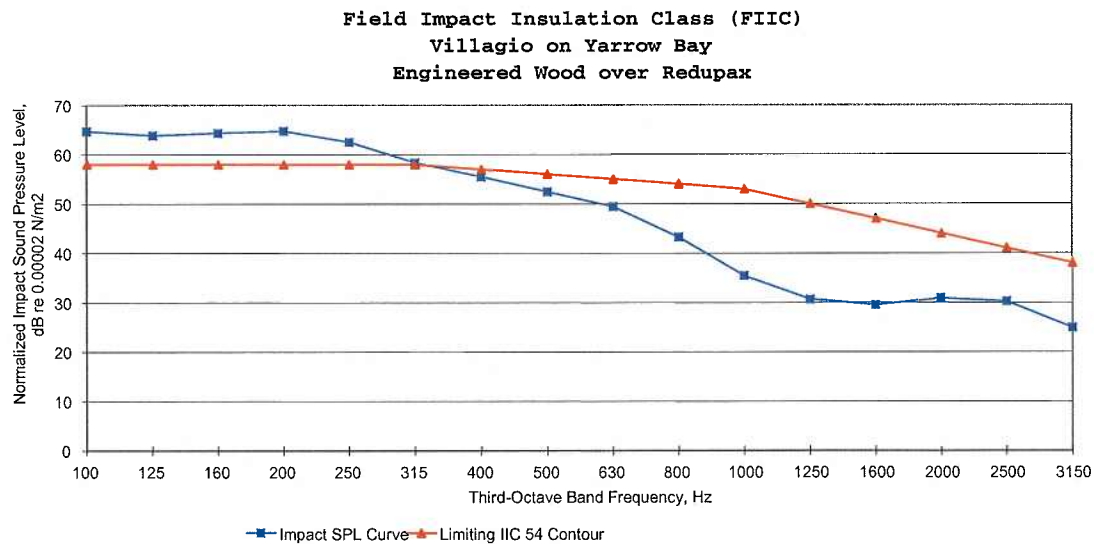
MEASUREMENT RESULTS

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 54. A graphical and tabular presentation of the data is shown in the following pages.

Freq. (Hz)	L _n (dB)	Def. (dB)	Freq. (Hz)	L _n (dB)	Def. (dB)
100	65	7	630	49	0
125	64	6	800	43	0
160	64	6	1000	35	0
200	65	7	1250	31	0
250	63	5	1600	29	0
315	58	0	2000	31	0
400	55	0	2500	30	0
500	52	0	3150	25	0

Abbreviation Notes:

- Freq. - 1/3 Octave Band Center Frequencies in hertz
 L_n - Normalized Impact Sound Pressure Level in decibel
 Def. - Deficiencies



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