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: Engineered Hard Wood over Redupax

FIIC: 55

FLOOR/CEILING ASSEMBLY:

The floor/ceiling assembly consisted of engineered hard wood 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 55. A graphical and tabular presentation of the data are shown below.

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<th>Freq. (Hz)</th>
<th>L_n (dB)</th>
<th>Def. (dB)</th>
<th>Freq. (Hz)</th>
<th>L_n (dB)</th>
<th>Def. (dB)</th>
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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: Engineered Hardwood
Pad Underlayment: Redupax

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