



6042 Seaview Ave. NW, Suite 102  
Seattle, WA 98107  
Phone: (206) 839-0819  
Fax: (206) 839-0824

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## FIELD IMPACT INSULATION CLASS (FIIC) REPORT

**TEST DATE:** November 21, 2001

**LOCATION:** Frazer Court Apartments, 16275 NE 85th St, Redmond, WA 98052-3528

**TEST SPECIMEN:** Vinyl over Jumpax

**FIIC:** 57

### FLOOR CEILING ASSEMBLY

The floor/ceiling assembly consisted of vinyl sheet glued over Jumpax, 1" Gyp-Crete over plywood subfloor, TJI 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

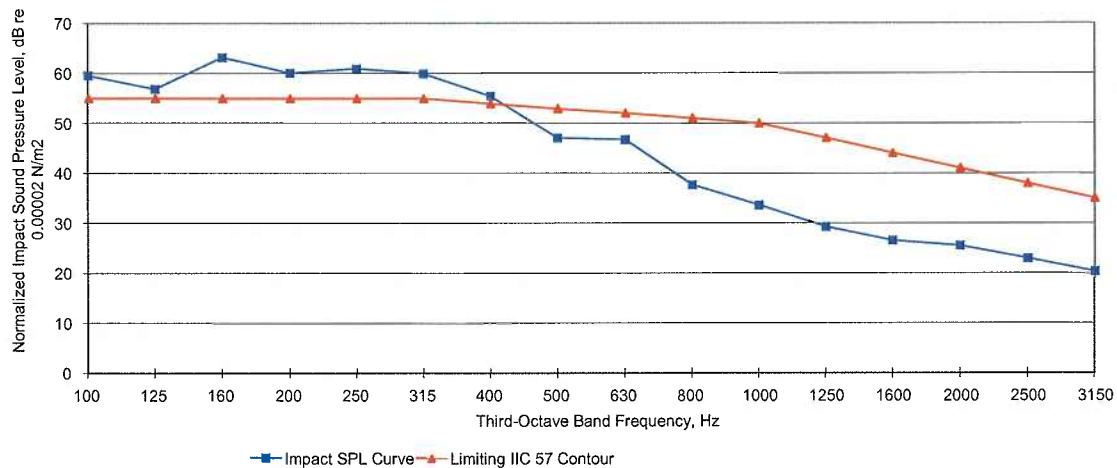
The Field Impact Insulation Class (FIIC) of the floor/ ceiling assembly was computed in accordance with ASTM E989-89 and ASTM E492-90 and was found to be 57. A graphical and tabular presentation of the data is shown in the following pages.

Freq. (Hz)	L <sub>n</sub> (dB)	Def. (dB)	Freq. (Hz)	L <sub>n</sub> (dB)	Def. (dB)
100	60	5	630	47	0
125	57	2	800	47	0
160	63	8	1000	38	0
200	60	5	1250	34	0
250	61	6	1600	29	0
315	60	5	2000	27	0
400	55	1	2500	25	0
500	47	0	3150	23	0

Abbreviation Notes:

- Freq. - 1/3 Octave Band Center Frequencies in hertz
- L<sub>n</sub> - Normalized Impact Sound Pressure Level in decibel
- Def. - Deficiencies

**Field Impact Insulation Class (FIIC)**  
**Frazer Court Apartments**  
**Vinyl over Jumpax**



## SSA ACOUSTICS, LLP

Prepared by:

*Mohamed Ait Allaoua*

Mohamed Ait Allaoua  
 Acoustical Consultant