Field Impact Sound Transmission Test 3/31/95

Test No. 900401E-04 From (source): Suite 402 To (receive): Suite 302 Region: Entryway

TESTED FOR:

The Noble Company

614 Monroe Street

Grand Haven, MI 49417-0350

SUBJECT PROPERTY:

SJRDA Housing - Block 4 / Paseo Plaza 201 South Fourth Street

San Jose, CA

Test Procedure

The test and analysis procedures utilized for this test conform explicitly with American Society for Testing Materials (ASTM) Designation E1007-90 - "Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission Through Floor-Ceiling Assemblies and Associated Support Structures". The purpose of the field test was to determine the impact sound insulation of the floor-ceiling assembly between rooms 302 and 402.

Test Conditions and Measurement Equipment

The test equipment employed for these measurements consisted of a Hewlett-Packard 3569A Spectrum Analyzer (S/N 3222A00175), equipped with an ACO Pacific moddel 4012 Microphone Preamplifier (S/N 4012-1) and an ACO Pacific type 7046 Random Incidence Microphone Capsule (S/N 2064). The Tapping Machine utilized was Norwegian Electronics Type 211 (S/N 10632).

Reverb time measurements were performed using the Hewlett-Packard 3569A and a Yamaha MS10M Powered Loudspeaker. Reverb time was sampled a minimum of 15 times in each of the 1/3 octave bands under test and the results averaged. Room

Field Impact 3 3/31/95 Test No. 9004 Page 2 of 4	Sound Transmission 01E-04	on Test	
temperature w	as approximately 6	F at the time of testing.	
Description of	Tested Partition and	Rooms	
Described from following const		of 402 to ceiling of 302),	the tested partition was of the
as per T by The I b. 3/4" thic c. 2 layers d. 14" SSI e. R-19 Ba f. Resilien g. 1 layer, The volume of unfurnished. Plywood barrie flanking sound Summary of Te The following normalized imp	he Noble Company. Noble Company. k mortar bed , 5/8" plywood joist tt Fiberglass insular t channel 5/8" gypsum board, f the receiving are rs were installed ov paths. est Results table summarizes act sound pressure	Refer to "wood" detail of the measured and calceleded. "RT _m " indicates the calceleded. "RT _m " indicates the calceleded.	t. The receiving room was as a series in both rooms to eliminate culated values. "Ln" is the ne measured time of decay of
the reverberan	t field in the receive r display of the limit	room. Refer to the atta	ched graphical depictions of
Freq. (Hz)	Ln	RT ₆₀	
100	55	0.85	
125	56	1.02	
160	58	0.88	
200	. , 56	1.04	
250	53	1.19	
315	52	1.37	

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400	52	1.37	
500	52	1.41	
630	52	1.50	
800	. 52	1.53	
1000	51	1.52	
1250	51	1.46	
1600	51	1.42	
2000	52	1.35	
2500	53	1.11	
3150	50	1.16	
4000	48	1.12	
5000	47	1.04	

Test No. 900401E-04 FIIC = 50

Test Witnessed By:

Gregg Butensky, B.S.E

Test Report Performed By: Peter A. McDonald, M.S. Acoustical Engr.

