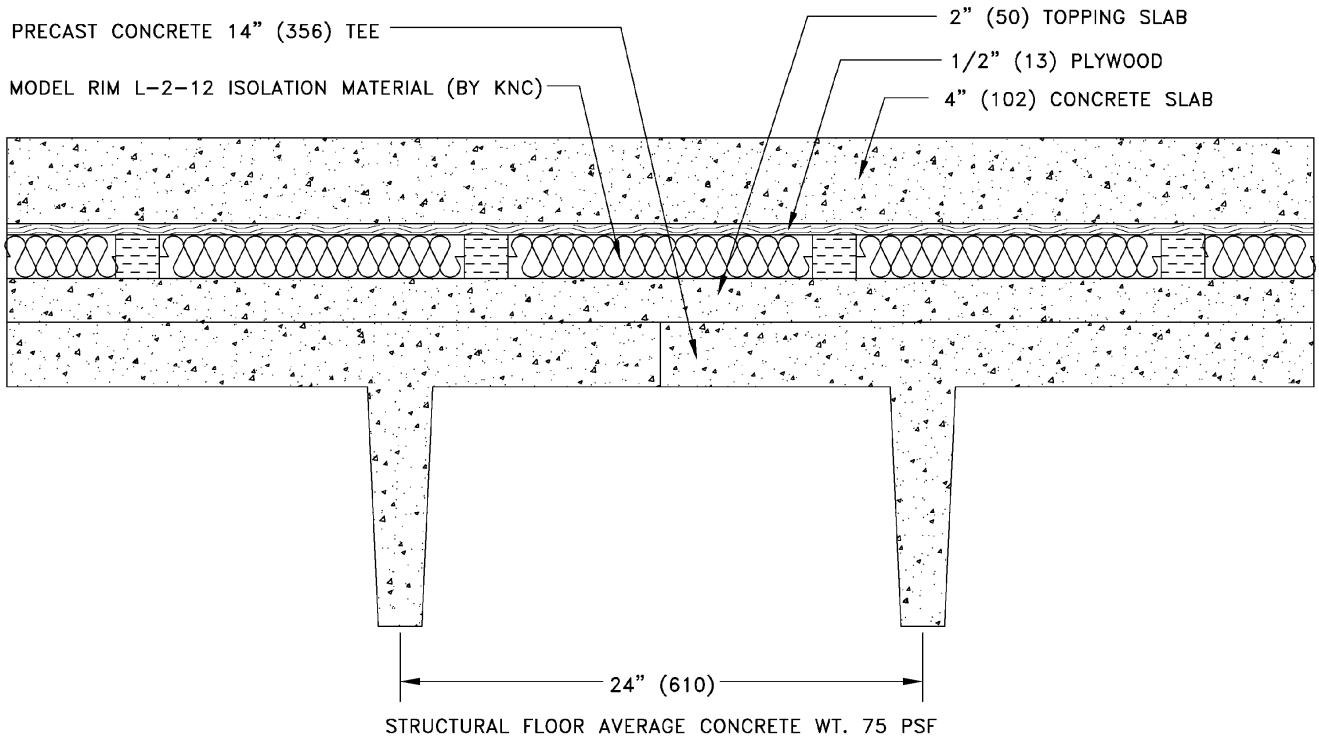
KINETICS NOISE CONTROL TEST REPORT #AT001012

- **KINETICS NOISE CONTROL PRODUCTS:**
  - RIM L-2-12

- **ACOUSTICAL RATINGS:**
  - IIC 70

- **TESTING AGENCY & REPORT NUMBER:**
  - RIVERBANK ACOUSTICAL LABORATORIES
  - IN 71-15

KINETICS DRAWING NUMBER: AT001012



KINETICS Noise Control

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RIVERBANK ACOUSTICAL LABORATORIES

GENEVA, ILLINOIS

FOUNDED 1918 BY WALLACE CLEMENT SABINE

REPORT

FOR: Consolidated Kinetics Corporation

ON: Floor Assembly: 4 Inches of Concrete on Kinetics Floating System and 2 Inches of Concrete Topping on 14 Inch Deep "T" Sections. Impact Directly on Concrete.

Impact Sound Transmission Test IN 71-15

CONDUCTED: 17 April 1971

INTRODUCTION: This floor assembly was tested for impact sound transmission in accordance with ISO Recommendation: R140-1960(E). A description of the test procedure is available separately.

DESCRIPTION OF THE SPECIMEN: The test specimen had "T" sections, 48 inches wide (cut to 24 inches wide for ease in handling), 238 inches long, placed edge to edge to form a floor 168 by 240 inches. The "T" sections contained joists spaced 24 inches o.c.. A 2 inch topping of 3000 psi concrete was poured over the entire assembly and finished. Prefabricated floating panels, 48 by 48 inches were joined with clips and laid over the entire surface to form a continuous floor. A double layer of polyethylene plastic was laid over the entire surface. A single layer of 3/4 inch thick wood fiber board was applied around the perimeter of the entire specimen. Wire mesh was laid in place and a 4 inch thick layer of 3000 psi concrete was poured over the entire surface and finished semi-smooth. Along the perimeter of the specimen and test opening wall, the wood fiber board was cut back and the void covered with a dense flexible mastic. The floating panels were constructed of 1/2 inch thick plywood, Kinetic Isolation Pads, Type L, spaced 12 inches o.c., and 2 inch thick glass fiber insulation with a density of 1.3 pounds per cubic foot. The pads were 2 inch cubes cemented to the plywood. The "T" sections and the topping weighed an average of 75 pounds per sq ft and the 4 inch surface slab weighed an average of 50 pounds per sq ft.

RESULTS OF MEASUREMENTS: Sound pressure levels at 1/3 octave intervals, normalized to 10 square meters, are given below in tabular and graphic form. The impact noise rating, INR, is computed in accordance with the technique given in FHA No. 750. The IIC is computed per HUD FT/TS-24.

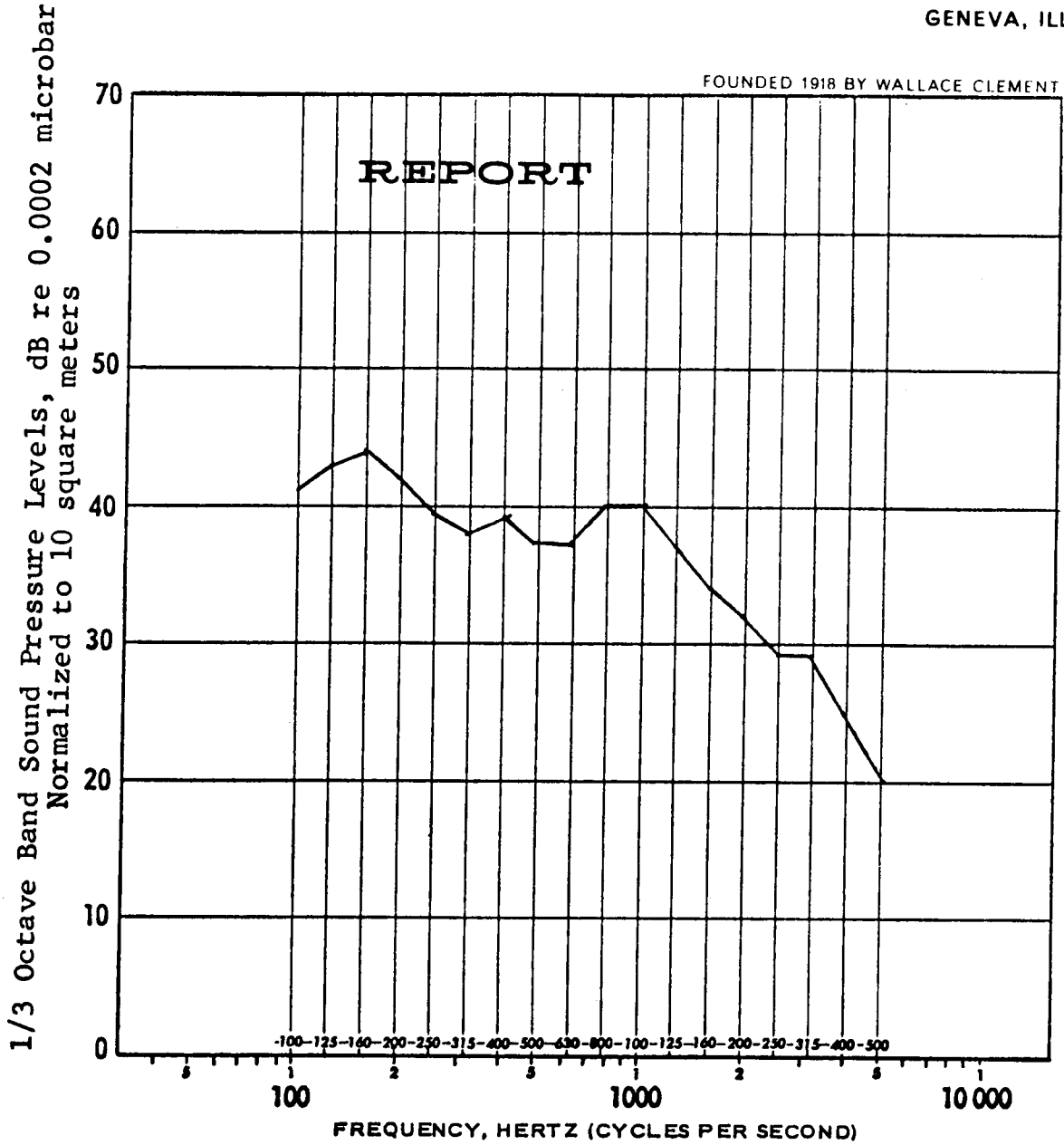
FREQUENCY, Hertz (cps)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
IMPACT SOUND TRANSMISSION Ln, dB	41	43	44	42	39	38	39	37	37	40	40	37	34	32	29	29	25	20

IMPACT NOISE RATING +19

IMPACT INSULATION CLASS 70

Approved William Siekman
William Siekman
Manager

Submitted by D. A. Zedonis
D. A. Zedonis
Assistant Research Engineer



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The impact levels of the tested specimen are shown above. The graph was prepared on Codex Paper No. 31,462.