Kinetics Noise Control
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Hyper-Damp Creep Test

Purpose: Determine the amount of deflection under constant load over time.

Conducted by: Greg Hively 12/13/2021

Test Equipment: The creep test took place in Kinetics lab using 100 lb. plate weights.

Test Procedure: Two Hyper-Damp pads supported the equivalent of 75psf with a 2' x 2' pad spacing. This results in a 300lb load per pad or 600 lbs. for the test. Pads were placed on a weight plate 1" in from opposite corners. Six plates stacked on top of the pads to provide the compressive load.

After measuring the height of the pads, the gap between the base plate and loading plates was measured immediately after applying the load. This gap space was remeasured at various times over the course of the test.

Test Results: After almost 3 days of loading, the Hyper-Damp pads settled to a deflection of around 0.050" from the unload height and about 0.007" to 0.008" after the initial deflection.

Hyper-Damp Creep Test: 75 psf load (300 lbs.)					
	time	Units	Hgt. (in)	Creep (in)	after int deflection
Initial	0	unloaded	0.756	0	
12/10/21 10:43	0		0.716	0.04	initial deflection
12/10/21 11:05	22.00	min	0.713	0.003	
12/10/21 12:45	122.00	min	0.712	0.004	
12/10/21 14:05	202.00	min	0.708	0.008	
12/10/21 16:15	5.53	hours	0.708	0.008	
12/13/21 8:44	2.92	days	0.709	0.007	

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Date Revised: