Zoning Resolution

THE CITY OF NEW YORK
Zohran K. Mamdani, Mayor

CITY PLANNING COMMISSION
Sideya Sherman, Chair

42-42 - Performance Standards Regulating Vibration

File generated by https://zr.planning.nyc.gov on 11/12/2026

42-42 - Performance Standards Regulating Vibration

LAST AMENDED
6/6/2024

42-421 - Definitions

LAST AMENDED
6/6/2024

For the purposes of this Section, the following terms are defined:

Frequency
A "frequency" is the number of oscillations per second of a vibration.

Impact vibrations
"Impact vibrations" are earth-borne oscillations occurring in discrete pulses at or less than 100 pulses per minute.

Steady state vibrations
"Steady state vibrations" are earth-borne oscillations that are continuous. Discrete pulses that occur more frequently than 100 times per minute shall be considered to be #steady state vibrations#.

Three-component measuring system
A "three-component measuring system" is a device for recording the intensity of any vibration in three mutually perpendicular directions.

42-422 - Method of measurement

LAST AMENDED
6/6/2024

For the purpose of measuring vibration, a #three-component measuring system# approved by the Commissioner of Buildings shall be employed.

42-423 - Maximum permitted steady state vibration displacement

LAST AMENDED
6/6/2024

In all #Manufacturing Districts#, no activity shall cause or create a #steady state vibration# at any point on any #lot line#, with a displacement in excess of the permitted #steady state vibration# displacement for the #frequencies# as set forth in the following table for the district indicated.

MAXIMUM PERMITTED STEADY STATE VIBRATION DISPLACEMENT
(in inches)

	District		
#Frequency# (cycles per second)	M1	M2	M3
10 and below	.0008	.0020	.0039

10 - 20	.0005	.0010	.0022
20 - 30	.0003	.0006	.0011
30 - 40	.0002	.0004	.0007
40 - 50	.0001	.0003	.0005
50 - 60	.0001	.0002	.0004
60 and over	.0001	.0001	.0004

42-424 - Maximum permitted impact vibration displacement

LAST AMENDED
6/6/2024

In all #Manufacturing Districts#, no activity shall cause or create an #impact vibration#, at any point on any #lot line#, with a displacement in excess of the permitted #impact vibration# displacement for the #frequencies# as set forth in the following table for the district indicated.

MAXIMUM PERMITTED IMPACT VIBRATION DISPLACEMENT
(in inches)

District

#Frequency# (cycles per second)	M1	M2	M3
10 and below	.0016	.0040	.0078
10 - 20	.0010	.0020	.0044
20 - 30	.0006	.0012	.0022
30 - 40	.0004	.0008	.0014
40 - 50	.0002	.0006	.0010
50 - 60	.0002	.0004	.0008
60 and over	.0002	.0002	.0008

42-425 - Special provisions applying along district boundaries

LAST AMENDED
6/6/2024

Whenever an M2 or M3 District adjoins a #Residence District#, the #steady state# and #impact vibration# displacement, measured at the district boundary, shall not exceed the maximum permitted for an M1 District for the #frequencies# as set forth in the tables in Section 42-423 (Maximum permitted steady state vibration displacement) or Section 42-424 (Maximum permitted impact

vibration displacement).