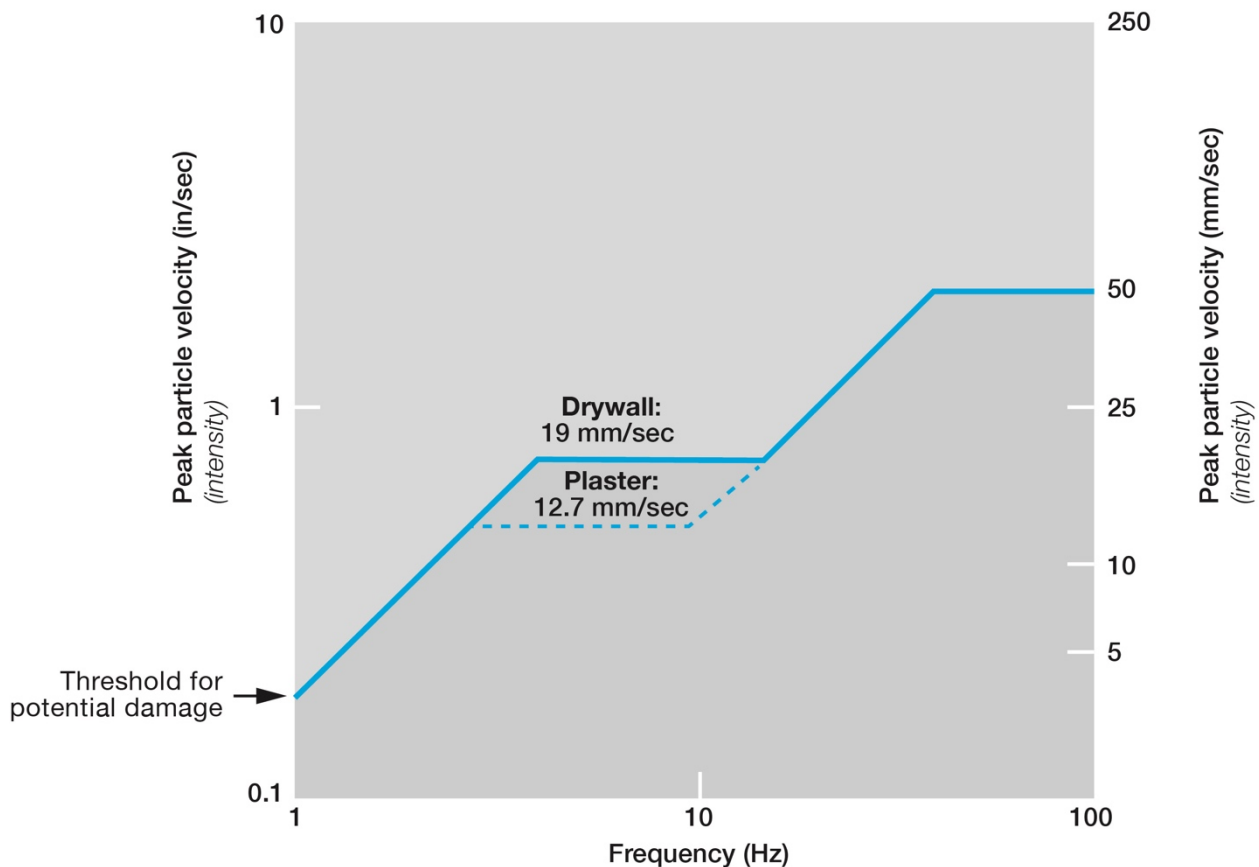


Understanding the Z-Curve

The Z-Curve line establishes a limit above which damage becomes possible, but it is crucial to note that damage does not automatically occur once this limit is breached. Damage would not actually occur in the average residence until ground vibrations reached significantly higher intensities than those outlined by the USBM Z-Curve. If the Z-Curve criteria is exceeded, the probability of damage is merely introduced and will incrementally increase with higher and higher vibration amplitudes.

USBM Z-CURVE (USBM RI 8507)
Threshold damage vibration criteria



Vibrations are occurring around us every day and are highly subjective. Each individual's perception and tolerance will influence the degree to which vibrations are a nuisance or objectionable. Humans and animals are far more sensitive to vibrations than a two-storey timber framed house, bridge or other structures.

Permanent Monitoring Units

Crestmont			Calgary Climbing Center
Blast Date:	Blast no.	Blast time:	
2-Sep-20	CM-07	18:00	0.47mm/s
3-Sep-20	CM-08	16:28	0.68mm/s
4-Sep-20	CM-09	18:24	0.54mm/s

Please note: None of the controlled blasts during the week of Aug. 31 - Sept. 5 generated ground vibrations of a sufficient frequency to produce a seismograph report.