

Load Protocols

Load protocol	Excitation type	Properties
#1	Impulse	$u = 4$ mm
#2	Impulse	$u = 6$ mm
#3	Impulse	$u = 8$ mm
#4	Linear sweep	Initial amplitude: 0.2 mm Frequency range: 1 – 30 Hz Frequency rate: 0.05 Hz/s
#5	White noise	Frequency range: 1 – 50 Hz RMS of table acceleration: $a_{0,rms} = 0.22$ m/s ² (0.022g)
#6	White noise	Frequency range: 0.65 – 25 Hz Peak table acceleration: $a_{0,max} = 0.29$ m/s ² (0.030g)
#7	San Lorenzo - Central Italy (2016)	Peak table acceleration: $a_{0,max} = 2.51$ m/s ² (0.26g)
#8	Quarantoli (2012)	Peak table acceleration: $a_{0,max} = 2.90$ m/s ² (0.30g)
#9	Mirandola (2012)	Peak table acceleration: $a_{0,max} = 2.68$ m/s ² (0.27g)
#10	Novi di Modena (2012)	Peak table acceleration: $a_{0,max} = 2.29$ m/s ² (0.23g)
#11	Friuli (1976)	Peak table acceleration: $a_{0,max} = 3.27$ m/s ² (0.33g)
#12	Kreta (2021)	Peak table acceleration: $a_{0,max} = 3.38$ m/s ² (0.34g)
#13	Lefkada (2003)	Peak table acceleration: $a_{0,max} = 4.51$ m/s ² (0.46g)
#14	Imperial Valley (1979)	Peak table acceleration: $a_{0,max} = 3.20$ m/s ² (0.33g)
#15	Chi-Chi (1999)	Peak table acceleration: $a_{0,max} = 3.31$ m/s ² (0.34g)
#16	Kobe (1995)	Peak table acceleration: $a_{0,max} = 3.33$ m/s ² (0.34g)
#17	Loma Prieta (1989)	Peak table acceleration: $a_{0,max} = 3.81$ m/s ² (0.39g)
#18	Northridge (1994)	Peak table acceleration: $a_{0,max} = 4.95$ m/s ² (0.50g)
#19	White noise	Frequency range: 0.65 – 25 Hz Peak table acceleration: $a_{0,max} = 0.298$ m/s ² (0.030g)
#20	White noise	Frequency range: 1 – 50 Hz RMS of table acceleration: $a_{0,rms} = 0.227$ m/s ² (0.028g)
#21	Impulse	$u = 6$ mm
#22	Impulse	$u = 4$ mm

Table 1: Load protocols.