DYNAMIC ISOLATION SYSTEMS

Isolator Engineering Properties

Metric Units

DEVICE SIZE				MOUNTING PLATE DIMENSIONS					
Isolator Diameter, D_I (mm)	Isolator Height, H (mm)	Number of Rubber Layers, N	Lead Diameter D_L (mm)	L (mm)	t (mm)	Hole Qty.	Hole Ø (mm)	A (mm)	B (mm)
305	125-280	4-14	0-100	355	25	4	27	50	-
355	150-305	5-16	0-100	405	25	4	27	50	-
405	175-330	6-20	0-125	455	25	4	27	50	-
455	175-355	6-20	0-125	510	25	4	27	50	-
520	205-380	8-24	0-180	570	25	8	27	50	50
570	205-380	8-24	0-180	620	25	8	27	50	50
650	205-380	8-24	0-205	700	32	8	27	50	50
700	205-430	8-30	0-205	750	32	8	33	65	75
750	230-455	8-30	0-230	800	32	8	33	65	75
800	230-510	8-33	0-230	850	32	8	33	65	75
850	230-535	8-35	0-255	900	38	12	33	65	95
900	255-560	9-37	0-255	955	38	12	33	65	95
950	255-585	10-40	0-280	1005	38	12	33	65	95
1000	280-635	11-40	0-280	1055	38	12	40	75	115
1050	305-660	12-45	0-305	1105	44	12	40	75	115
1160	330-760	14-45	0-330	1205	44	12	40	75	115
1260	355-760	16-45	0-355	1335	44	16	40	75	115
1360	405-760	18-45	0-380	1435	51	16	40	75	115
1450	430-760	20-45	0-405	1525	51	20	40	75	115
1550	455-760	22-45	0-405	1625	51	20	40	75	115

(1) The axial load capacities provided correspond to maxiumum displacements based on design limits of 250% rubber shear strain or 2/3 the isolator diameter. An isolator's actual displacement and load capacity are dependent on the rubber modulus and number of rubber layers.

(2) Rubber Shear Moduli (G) are available from 0.38 N/mm^2 to 0.70 N/mm^2.

(3) Elastic Stiffness (Ke) for analytical modeling may be taken as 10-times the yielded stiffness (Kd).

Isolator Diameter, D_I (mm)	DESIGN PROPERTIES			Maximum Displacement, D_{max}(mm)	Axial Load Capacity P_{max}(kN)
	Yielded Stiffness, K_d(kN/mm)	Characteristic Strength Q_d(kN)	Compression Stiffness, K_v(kN/mm)		
305	0.2-0.4	0-65	>50	150	450
355	0.2-0.4	0-65	>100	150	700
405	0.3-0.5	0-110	>100	200	900
455	0.3-0.7	0-110	>100	250	1,150
520	0.4-0.7	0-180	>200	300	1,350
570	0.5-0.9	0-180	>500	360	1,800
650	0.5-1.1	0-220	>700	410	2,700
700	0.5-1.4	0-220	>800	460	3,100
750	0.7-1.6	0-265	>900	460	3,600
800	0.7-1.6	0-265	>1,000	510	4,000
850	0.7-1.8	0-355	>1,200	560	4,900
900	0.7-1.9	0-355	>1,400	560	5,800
950	0.7-2.0	0-490	>1,800	610	6,700
1000	0.8-2.0	0-490	>1,900	660	7,600
1050	0.9-2.1	0-580	>2,100	710	8,500
1160	1.1-2.1	0-665	>2,800	760	13,800
1260	1.2-2.3	0-755	>3,700	810	20,500
1360	1.4-2.5	0-890	>5,100	860	27,600
1450	1.6-2.5	0-1,025	>5,300	910	33,400
1550	1.8-2.5	0-1,025	>6,500	910	40,000

(4) Kd range shown in table is typical for most projects. If needed for specific projects, Kd values up to three times the maximum shown in the range can be achieved by limiting the displacement capacity to 2/3 of the shown value.