MASON INDUSTRIES, Inc.
Manufacturers of Vibration Control Products
350 Rabro Drive
Hauppauge, NY 11788
631/348-0282
FAX 631/348-0279
Info@Mason-Ind.com
www.Mason-Ind.com

2101 W. Crescent Ave., Suite D
Anaheim, CA 92801
714/535-2727
FAX 714/535-5738
Info@MasonAnaheim.com
www.MasonAnaheim.com

1"(25mm) and Page 2, 2"(51mm) DEFLECTION RESTRAINED SEISMIC SPRING MOUNTS with or without EXTENDED BASE PLATES

TYPE **SLRS**

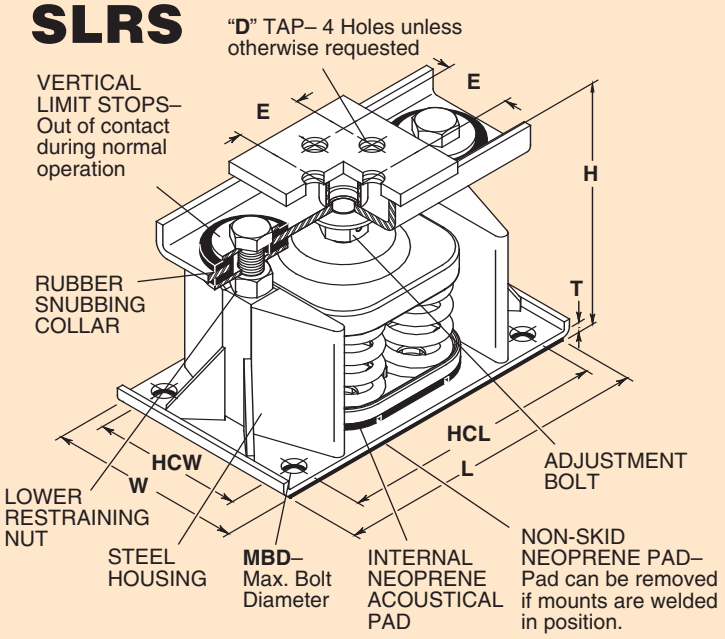
DATA SHEET DS-224-2

1"25mm Deflection SLRS SPRING MOUNTS

Use SLRSEBP when Extended Base Plate is required.

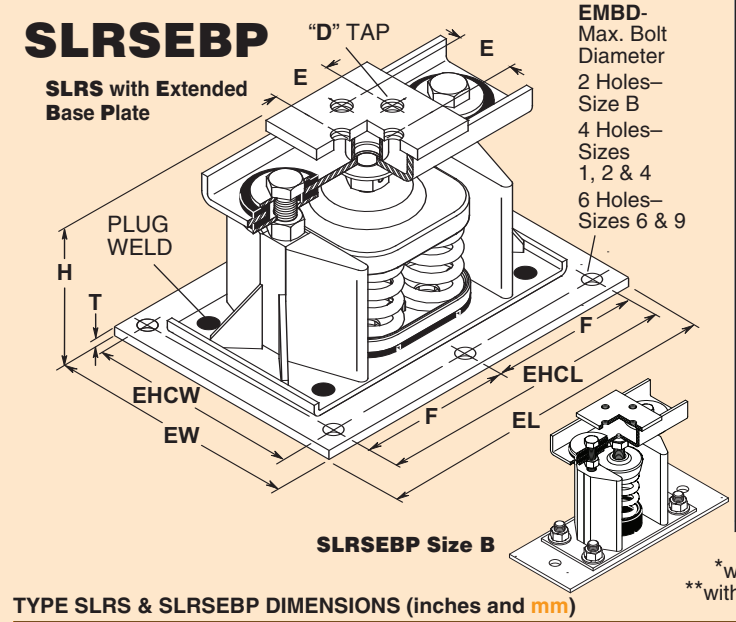
Illustration to left shows a SLRS-4 (4 springs). SLRS-B & -1 have one spring, SLRS-2 has two springs, SLRS-6 has six springs and SLRS-9 has nine springs.

SLRS



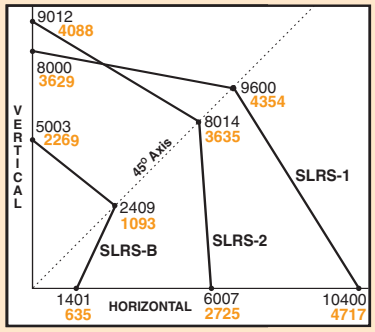
SLRSEBP

SLRS with Extended Base Plate



SLRSEBP Size B

Seismic Rated Load Curves (lbs kg)



Horizontal, Vertical and 45° plotted Ratings are tested ratings. Testing and calculations were performed to meet OSHPD criteria.

To use seismic rated load curves:

1) Calculate Vertical and Horizontal Forces on mountings including translations and overturning moments.
2) Plot Horizontal and Vertical Loads. The intersection must fall within the area below the seismic curve.

TYPE SLRS & SLRSEBP RATINGS

SLRS or SLRSEBP Size	Rated Capacity (lbs)	(kg)	Rated Defl (in)	(mm)	Mount Constant (lbs/in)	(kg/mm)	Max. G Rating	Spring Color
B-65	65	29	2.10	53	31	0.55	21.5	Brown
B-85	85	39	2.10	53	40	0.74	16.5	White†
B-115	115	52	2.00	51	57	1.02	12.2	Silver
B-150	150	68	2.00	51	75	1.33	9.3	Orange
B-280	280	127	1.60	41	174	3.10	5.0	Green
B-450	450	204	1.31	33	344	6.18	3.1	Red
B-750	750	340	1.12	28	670	12.1	1.9	White
B-1000	1000	454	1.00	25	1000	18.2	1.4	Blue
1-1000	1000	454	1.00	25	1000	18.2	7.9	Black
1-1350	1350	612	1.00	25	1350	24.5	5.9	Yellow
1-1750	1750	794	1.00	25	1750	31.8	4.5	Black*
1-2100	2100	953	1.00	25	2100	38.1	3.8	Yellow
1-2385	2385	1082	1.00	25	2385	43.3	3.3	Yellow**
1-2650	2650	1202	1.00	25	2650	48.1	3.0	Red*
1-2935	2935	1331	1.00	25	2935	53.2	2.7	Red**
2-3500	3500	1588	1.00	25	3500	63.5	1.8	Black*
2-4200	4200	1905	1.00	25	4200	76.2	1.5	Yellow*
2-4770	4770	2164	1.00	25	4770	86.6	1.3	Yellow**
4-5400	5400	2449	1.00	25	5400	98.0	2.0	Yellow
4-7000	7000	3175	1.00	25	7000	127.0	1.6	Black*
4-8400	8400	3810	1.00	25	8400	152.4	1.3	Yellow*
4-9540	9540	4327	1.00	25	9540	173.1	1.2	Yellow**
4-10600	10600	4808	1.00	25	10600	192.3	1.1	Red*
4-11740	11740	5325	1.00	25	11740	213.0	0.9	Red**
6-12600	12600	5715	1.00	25	12600	228.6	1.5	Yellow*
6-14310	14310	6491	1.00	25	14310	259.6	1.4	Yellow**
6-15900	15900	7212	1.00	25	15900	288.5	1.2	Red*
6-17610	17610	7988	1.00	25	17610	319.5	1.1	Red**
9-18900	18900	8573	1.00	25	18900	342.9	1.4	Yellow*
9-21465	21465	9736	1.00	25	21465	389.4	1.2	Yellow**
9-23850	23850	10818	1.00	25	23850	432.7	1.1	Red*

†with Black stripe
*with Red inner spring
**with Green inner spring

TYPE SLRS & SLRSEBP DIMENSIONS (inches and mm)

Size	H	T	D	E	SLRS L	HCL	W	HCW	MBD	SLRSEBP EL	EHCL	F	EW	EHCW	EMBD
B	8 1/2	3/8	1/2	2 1/4	8 1/2	7	4 1/4	2 3/4	5/8	13	10 1/2	-	5	-	5/8
	216	10	13	58	216	178	108	70	16	330	267	-	127	-	16
1	8 1/2	3/8	5/8	2 3/4	9 1/2	7 1/2	5 1/4	3 1/2	5/8	10	8	-	10	8	5/8
	216	10	16	70	241	191	133	89	16	254	203	-	254	203	16
2	8 1/2	3/8	5/8	2 3/4	14	12 1/4	5 1/4	3 1/2	5/8	14	11	-	12	9	3/4
	216	10	16	70	356	311	133	89	16	356	279	-	305	229	19
4	8 1/2	3/8	7/8	2 3/4	13 3/4	11	8	6 1/4	3/4	19	8	-	14	11	3/4
	216	10	22	70	349	279	203	159	19	483	203	-	356	279	19
6	9	1/2	1	3 1/4	19	15 7/8	9	6	1	27	-	12	15	12	1
	229	13	25	82	483	403	229	152	25	686	-	305	381	305	25
9	9 3/4	5/8	1	4	18	15 3/4	13	10 3/4	1	27	-	12	19	16	1
	248	16	25	102	457	400	330	273	25	686	-	305	483	406	25

SPRING CHARACTERISTICS (inches and mm)

Spring Size	OD	Free Height	Ratio Kx/Ky	Ratio OD/OH
B	2 3/8 60	4 102	0.70-0.80	0.80
C	2 7/8 73	4 1/8 105	0.90-1.10	0.92

All springs have an additional travel to solid equal to 50% of the rated deflection.

Solid Spring Height = Free Height minus 1.5 times the Rated Deflection.

Designs using these mounts to resist wind loads must be in accordance with ASCE 7-05.

Housing load ratings expressed in G's are based on tests with bolted connections to steel top and bottom. SLRS housings require uniform support under entire base plate.

2"51mm Deflection SLRS SPRING MOUNTS

Use SLRSEBP when Extended Base Plate is required.

SLRS

See front page for Seismic Rated Load Curves

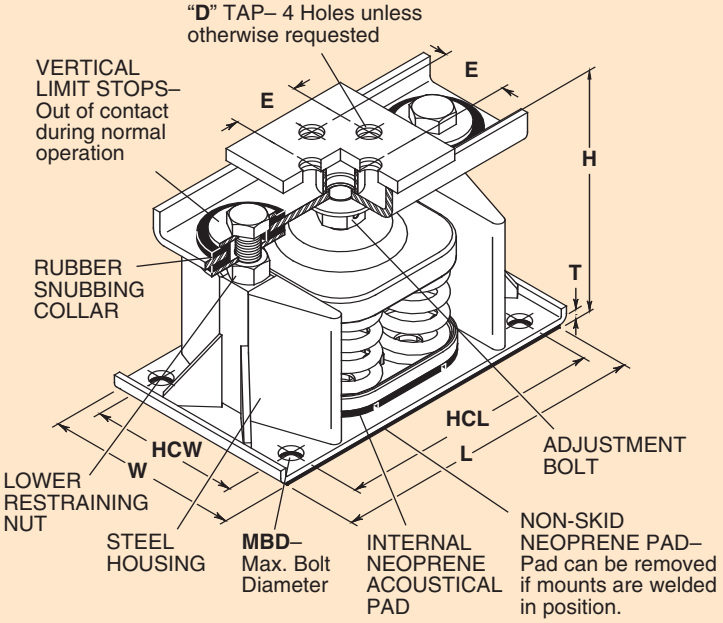
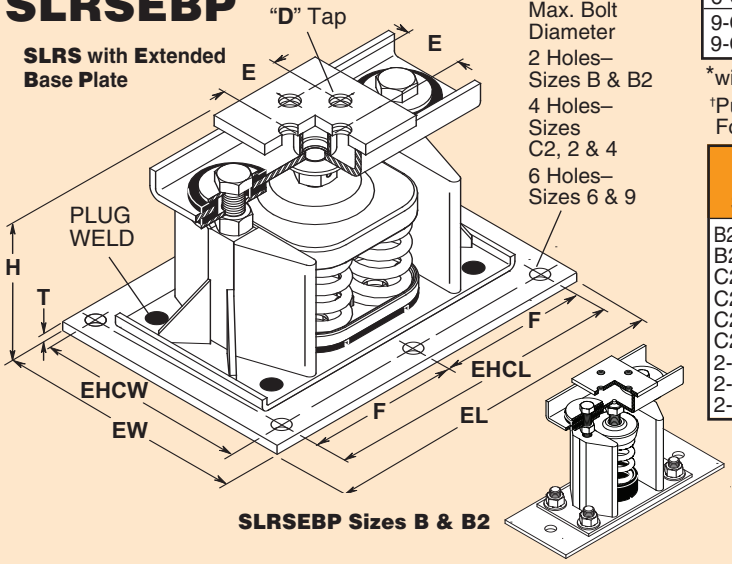


Illustration above shows a SLRS-4-C2 (4 springs). SLRS-B, -B2 & -C2 have one spring, SLRS-2-C2 has two springs, SLRS-6-C2 has six springs and SLRS-9-C2 has nine springs.

SLRSEBP



SLRSEBP Sizes B & B2

TYPE SLRS & SLRSEBP RATINGS

SLRS or SLRSEBP Size	Rated Capacity (lbs)	(kg)	Rated Defl (in)	(mm)	Mount Constant (lbs/in)	(kg/mm)	Max. G Rating	Spring Color
B-20	20	9	2.40	61	8	0.15	70.0	Tan
B-26	26	12	2.18	55	12	0.22	53.9	Wht/Blue
B-35	35	16	2.20	56	16	0.29	40.0	Purple
B-50	50	23	2.20	56	24	0.41	28.0	Wht/Red
B-65	65	29	2.10	53	31	0.55	21.6	Brown
B-85	85	39	2.10	53	40	0.74	16.5	Wht/Blk
B-115	115	52	2.00	51	57	1.02	12.2	Silver
B-150	150	68	2.00	51	75	1.33	9.3	Orange
B2-210	210	95	2.12	54	99	1.76	6.8	Silver
B2-290	290	132	2.00	51	144	2.59	4.9	Blue
B2-450†	450	204	2.00	51	224	4.00	3.2	Tan
B2-680†	680	308	2.00	51	340	6.04	2.1	Gray
C2-125	125	57	2.50	64	50	0.89	64.3	Purple
C2-170	170	77	2.40	61	70	1.26	47.3	Brown
C2-210	210	95	2.30	58	90	1.64	38.3	Red
C2-260	260	118	2.20	56	120	2.11	30.9	White
C2-330	330	150	2.00	51	165	2.94	24.4	Black
C2-460	460	209	2.00	51	230	4.10	17.5	Blue
C2-610	610	277	2.00	51	305	5.43	13.2	Green
C2-880†	880	399	2.00	51	440	7.82	9.1	Gray
C2-1210†	1210	549	2.00	51	605	10.8	6.6	Silver
C2-1540†	1540	699	2.00	51	770	13.7	5.2	Gray*
C2-1870†	1870	848	2.00	51	935	16.6	4.3	Silver*
2-C2-340	340	154	2.40	61	140	2.52	17.7	Brown
2-C2-420	420	191	2.30	58	180	3.29	14.3	Red
2-C2-520	520	236	2.20	56	240	4.21	11.6	White
2-C2-660	660	299	2.00	51	330	5.86	9.1	Black
2-C2-920	920	417	2.00	51	460	8.18	6.5	Blue
2-C2-1220	1220	553	2.00	51	610	10.8	4.9	Green
2-C2-1760†	1760	798	2.00	51	880	15.7	3.4	Gray
2-C2-2420†	2420	1098	2.00	51	1210	21.5	2.5	Silver
2-C2-3080†	3080	1397	2.00	51	1540	27.4	1.9	Gray*
2-C2-3740†	3740	1696	2.00	51	1870	33.2	1.6	Silver*
4-C2-4840†	4840	2195	2.00	51	2420	43.0	2.3	Silver
4-C2-6160†	6160	2794	2.00	51	3080	54.8	1.8	Gray*
4-C2 7480†	7480	3393	2.00	51	3740	66.5	1.5	Silver*
6-C2-7260†	7260	3293	2.00	51	3630	64.6	2.7	Silver
6-C2-9240†	9240	4191	2.00	51	4620	82.2	2.1	Gray*
6-C2-11220†	11220	5089	2.00	51	5610	99.8	1.7	Silver*
9-C2-13860†	13860	6287	2.00	51	6930	123.2	1.9	Gray*
9-C2-16830†	16830	7634	2.00	51	8415	149.7	1.6	Silver*

*with Red inner spring

†Published ratings allow minimum 25% additional travel to solid. For a full 50% specified minimum use the following ratings:

Size	Derated Capacity (lbs)	(kg)	Defl. (in)	(mm)	Size	Derated Capacity (lbs)	(kg)	Defl. (in)	(mm)
B2-450	410	186	1.83	46	2-C2-3740	3120	1415	1.67	42
B2-680	565	256	1.67	42	4-C2-4840	4040	1833	1.67	42
C2-880	800	363	1.82	46	4-C2-6160	5145	2334	1.67	42
C2-1210	1010	458	1.67	42	4-C2-7480	6245	2833	1.67	42
C2-1540	1285	583	1.67	42	6-C2-7260	6060	2749	1.67	42
C2-1870	1560	708	1.67	42	6-C2-9240	7715	3500	1.67	42
2-C2-1760	1600	726	1.67	42	6-C2-11220	9370	4250	1.67	42
2-C2-2420	2020	916	1.67	42	9-C2-13860	11570	5248	1.67	42
2-C2-3080	2570	1166	1.67	42	9-C2-16830	14050	6373	1.67	42

SPRING CHARACTERISTICS (inches and mm)

Spring Size	OD		Free Height		Ratio Kx/Ky	Ratio OD/OH
B	2 3/8	60	4	102	0.55-0.65	0.95-1.00
B2	2 3/8	60	4 1/2	114	0.80-0.90	1.19-1.48
C2	2 7/8	73	5	127	0.63-0.85	0.96-1.15

TYPE SLRS & SLRSEBP DIMENSIONS (inches and mm)

					SLRS					SLRSEBP					
Size	H	T	D	E	L	HCL	W	HCW	MBD	EL	EHCL	F	EW	EHCW	EMBD
B	8 1/2	3/8	1/2	2 1/4	8 1/2	7	4 1/4	2 3/4	5/8	13	10 1/2	-	5	-	5/8
B2	216	10	13	58	216	178	108	70	16	330	267	-	127	-	16
C2	8 1/2	3/8	5/8	2 3/4	9 1/2	7 1/2	5 1/4	3 1/2	5/8	10	8	-	10	8	5/8
	216	10	16	70	241	191	133	89	16	254	203	-	254	203	16
2-C2	8 1/2	3/8	5/8	2 3/4	14	12 1/4	5 1/4	3 1/2	5/8	14	11	-	12	9	3/4
	216	10	16	70	356	311	133	89	16	356	279	-	305	229	19
4-C2	8 1/2	3/8	7/8	2 3/4	13 3/4	11	8	6 1/4	3/4	19	8	-	14	11	3/4
	216	10	22	70	349	279	203	159	19	483	203	-	356	279	19
6-C2	9	1/2	1	3 1/4	19	15 7/8	9	6	1	27	-	12	15	12	1
	229	13	25	82	483	403	229	152	25	686	-	305	381	305	25
9-C2	9 3/4	5/8	1	4	18	15 3/4	13	10 3/4	1	27	-	12	19	16	1
	248	16	25	102	457	400	330	273	25	686	-	305	483	406	25

All springs without "†" have additional travel to solid equal to 50% of the rated deflection.

All springs with "†" have additional travel to solid equal to 25% of the rated deflection.

Designs using these mounts to resist wind loads must be in accordance with ASCE 7-05.

Solid Spring Height = Free Height minus 1.5 times the Rated Deflection.

Housing load ratings expressed in G's are based on tests with bolted connections to steel top and bottom. SLRS housings require uniform support under entire base plate.