

SHIPPING CONTAINER MOUNTS

J-18100 SERIES



FOR PROTECTING PRODUCTS IN TRANSIT – SANDWICH MOUNTS WITH SPE® I ELASTOMER

The LORD series of Shipping Container Mounts are for fragile, valuable products needing predictable, low to medium level protection. Bonded elastomeric sandwich mounts are simple, versatile, economical and easy to install.

These Shipping Container Mounts consist of two metal plates with an elastomer bonded between them. The composition and configuration of the elastomer determines the static and dynamic properties of the part. Sandwich mounts have excellent capacity for energy control, and they exhibit linear shear load deflection characteristics through a significant deflection range.

Offering controlled stiffness in all directions, a rugged one-piece bonded assembly and long service life, they are reusable for years, even under severe shipping conditions.

LORD offers standard Shipping Container Mounts with or without corrosion resistant paint. Standardization includes both elastomer and hardware. Seven different series of parts give you a wide choice of sizes, load capacities and spring rates.

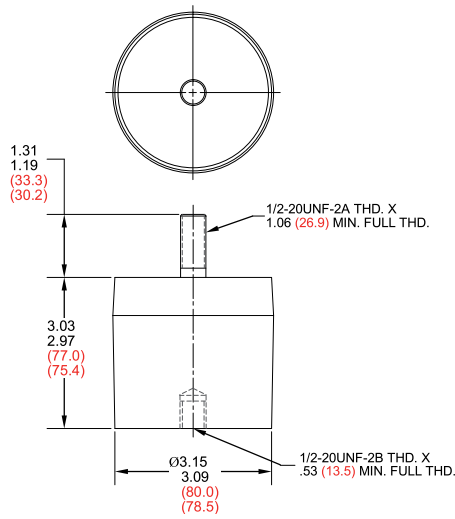
Shipping Container Mounts are made with SPE® I elastomer, a broad-temperature range stock and meet the rigid requirements of military packaging specifications over the entire operational temperature spectrum from -65°F to +165°F (-54°C to +74°C). Low carbon steel metal components are painted for corrosion protection. If paint is not required, they are treated with a rust preventative.

Shipping Container Mounts are designed to meet dynamic load requirements. Drop tests are conducted to determine the energy-absorbing characteristics under specified environmental conditions. Mounts are subject to severe fatigue tests to determine expected life. Still other tests are run to determine dynamic natural frequency, damping values and fatigue life under vibratory conditions.

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FIGURE 1 – J-18100 PART DIMENSIONS



Metric values in parenthesis.



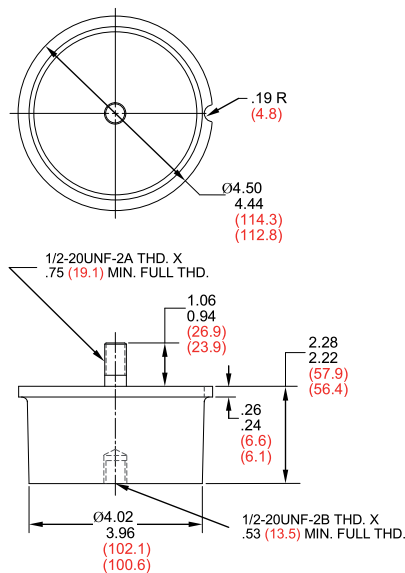
TABLE 1 – J-18100 PERFORMANCE CHARACTERISTICS

Part Number		Shear Ratings					
		Spring Rate		Maximum Load		Maximum Deflection	
Painted	Unpainted	lb/in	N/mm	lb	kg	in	mm
J-18100-2	J-18100-12	210	37	80	36	6.5	165
J-18100-3	J-18100-13	235	41	90	41	6.2	157
J-18100-4	J-18100-14	265	46	100	45	5.5	140
J-18100-5	J-18100-15	300	53	115	52	4.9	124
J-18100-6	J-18100-16	355	62	135	61	4.1	104
J-18100-7	J-18100-17	395	69	155	70	3.7	94

Ratio of compression to shear spring rate of mount (L value) = 6.5 (approx.) for this series.

J-18101 SERIES

FIGURE 2 – J-18101 PART DIMENSIONS



Metric values in parenthesis.



TABLE 2 – J-18101 PERFORMANCE CHARACTERISTICS

Part Number		Shear Ratings					
		Spring Rate		Maximum Load		Maximum Deflection	
Painted	Unpainted	lb/in	N/mm	lb	kg	in	mm
J-18101-2	J-18101-12	525	96	205	93	4.6	117
J-18101-3	J-18101-13	570	100	220	100	4.2	107
J-18101-4	J-18101-14	605	106	235	107	4.0	102
J-18101-5	J-18101-15	675	118	265	120	3.6	91
J-18101-6	J-18101-16	875	153	310	141	2.7	69
J-18101-7	J-18101-17	965	169	310	141	2.5	64

Ratio of compression to shear spring rate of mount (L value) = 8 (approx.) for this series.

SHIPPING CONTAINER MOUNTS

J-18102 SERIES

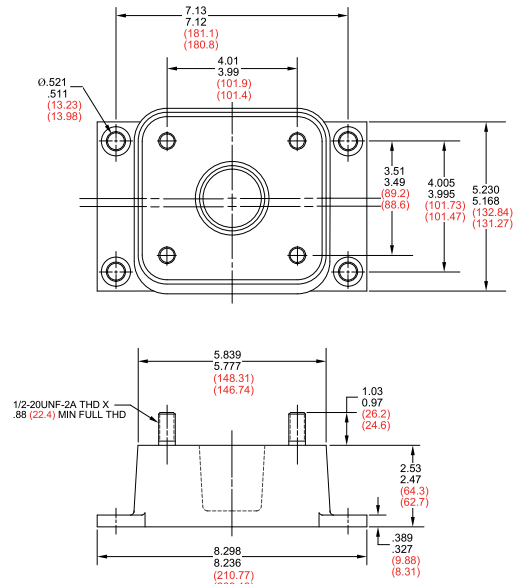


TABLE 3 – J-18102 PERFORMANCE CHARACTERISTICS

Part Number		Shear Ratings					
		Spring Rate		Maximum Load		Maximum Deflection	
Painted	Unpainted	lb/in	N/mm	lb	kg	in	mm
J-18102-2	J-18102-12	1060	188	415	189	4.9	124
J-18102-3	J-18102-13	1295	227	505	230	4.0	102
J-18102-4	J-18102-14	1420	249	555	252	3.7	94
J-18102-5	J-18102-15	1680	294	655	298	3.1	79
J-18102-6	J-18102-16	2130	373	680	309	2.4	61
J-18102-7	J-18102-17	2435	427	680	309	2.1	53

Ratio of compression to shear spring rate of mount (L value) = 12 (approx.) for this series.

FIGURE 3 – J-18102 PART DIMENSIONS



Metric values in parenthesis.

J-18103 SERIES

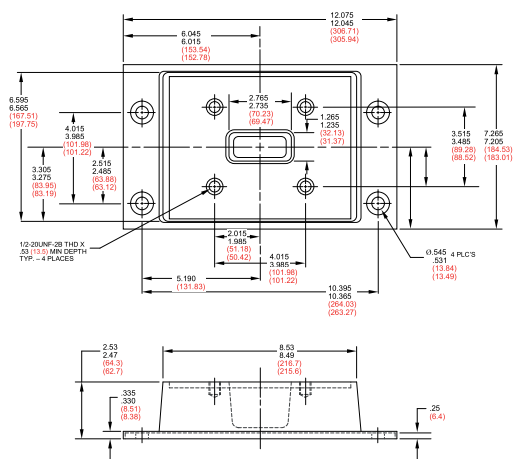


TABLE 4 – J-18103 PERFORMANCE CHARACTERISTICS

Part Number		Shear Ratings					
		Spring Rate		Maximum Load		Maximum Deflection	
Painted	Unpainted	lb/in	N/mm	lb	kg	in	mm
J-18103-2	J-18103-12	2165	379	850	386	4.6	117
J-18103-3	J-18103-13	2425	425	950	432	4.1	104
J-18103-4	J-18103-14	2765	484	1080	491	3.6	91
J-18103-5	J-18103-15	3245	569	1270	577	3.1	79
J-18103-6	J-18103-16	3540	620	1310	595	2.8	71
J-18103-7	J-18103-17	3880	680	1310	595	2.6	66

Ratio of compression to shear spring rate of mount (L value) = 9 (approx.) for this series.

FIGURE 4 – J-18103 PART DIMENSIONS

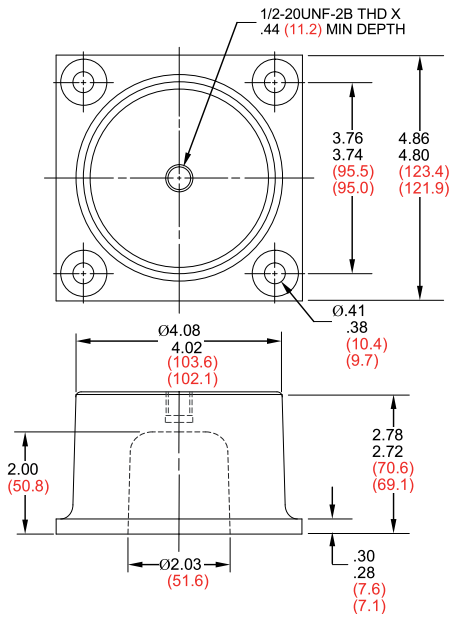


Metric values in parenthesis.

SHIPPING CONTAINER MOUNTS

J-18104 SERIES

FIGURE 5 – J-18104 PART DIMENSIONS



Metric values in parenthesis.



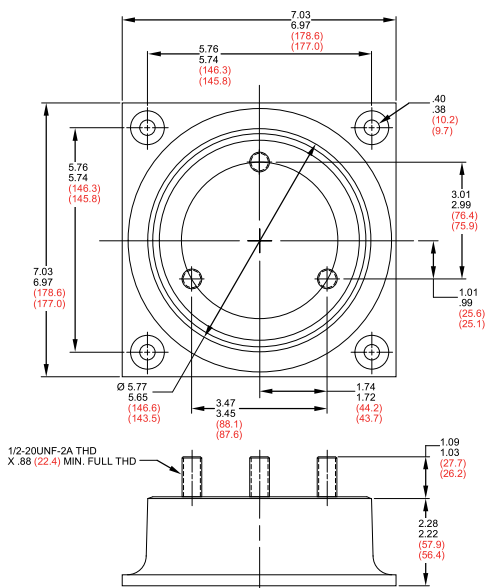
TABLE 5 – J-18104 PERFORMANCE CHARACTERISTICS

Part Number		Shear Ratings					
		Spring Rate		Maximum Load		Maximum Deflection	
Painted	Unpainted	lb/in	N/mm	lb	kg	in	mm
J-18104-2	J-18104-12	290	51	110	50	5.9	150
J-18104-3	J-18104-13	310	54	120	55	5.9	150
J-18104-4	J-18104-14	365	64	140	64	5.1	130
J-18104-5	J-18104-15	410	72	160	73	4.5	114
J-18104-6	J-18104-16	525	92	205	93	3.5	89
J-18104-7	J-18104-17	575	101	225	102	3.2	81

Ratio of compression to shear spring rate of mount (L value) = 6 (approx.) for this series.

J-18105 SERIES

FIGURE 6 – J-18105 PART DIMENSIONS



Metric values in parenthesis.



TABLE 6 – J-18105 PERFORMANCE CHARACTERISTICS

Part Number		Shear Ratings					
		Spring Rate		Maximum Load		Maximum Deflection	
Painted	Unpainted	lb/in	N/mm	lb	kg	in	mm
J-18105-2	J-18105-12	750	131	290	132	4.6	117
J-18105-3	J-18105-13	815	143	320	149	4.3	109
J-18105-4	J-18105-14	890	156	350	159	3.9	99
J-18105-5	J-18105-15	1000	175	390	177	3.4	86
J-18105-6	J-18105-16	1150	201	450	205	3.0	76
J-18105-7	J-18105-17	1275	233	450	205	2.7	69

Ratio of compression to shear spring rate of mount (L value) = 8 (approx.) for this series.

SHIPPING CONTAINER MOUNTS

J-18106 SERIES

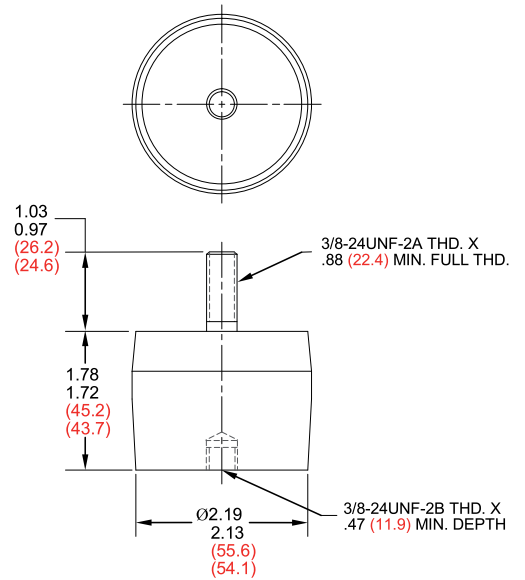


TABLE 7 – J-18106 PERFORMANCE CHARACTERISTICS

Part Number		Shear Ratings					
		Spring Rate		Maximum Load		Maximum Deflection	
Painted	Unpainted	lb/in	N/mm	lb	kg	in	mm
J-18106-2	J-18106-12	155	27	55	25	3.4	86
J-18106-3	J-18106-13	180	32	60	27	3.4	86
J-18106-4	J-18106-14	215	38	75	34	3.3	84
J-18106-5	J-18106-15	240	42	80	36	2.9	74
J-18106-6	J-18106-16	320	56	90	41	2.2	56
J-18106-7	J-18106-17	350	61	90	41	2.0	51

Ratio of compression to shear spring rate of mount (L value) = 11 (approx.) for this series.

FIGURE 7 – J-18106 PART DIMENSIONS



Metric values in parenthesis.