



Shock Mitigation Technology



**COAST DYNAMICS
GROUP LTD.**

Engineering a safer future.

DETAILED DROP TEST RESULTS

SEAT ACCELERATION 300lbf OCCUPANT [g]										
DROP HEIGHT [IN]	130lbf / in COIL SHOCK	160lbf / in COIL SHOCK	10" AIR SHOCK w/ ACCU, 50PSI	10" AIR SHOCK w/ ACCU, 100PSI	10" AIR SHOCK w/ ACCU, 150PSI	10" AIR SHOCK, 50PSI	10" AIR SHOCK, 100PSI	10" AIR SHOCK, 150PSI	8" SHOXS2 SEMI-ACTIVE	DECK
6.00	2.81	2.40	1.76	1.99	2.61	1.69	2.00	1.88	1.50	4.04
10.00			2.90	2.67	3.32	2.68	2.50	3.45	2.32	5.53
12.00	3.99	3.28								
14.00			3.78	4.60	4.17	4.01	4.74	3.82	3.22	7.54
18.00	4.53	4.18	5.79	6.48	6.26	4.94	6.63	5.28	4.30	10.25
22.00			7.07	7.29	7.72	6.06	6.74	7.04	4.66	11.93
24.00	5.38	4.94								
26.00			8.01	7.86	9.00	6.69	7.33	9.00	5.08	14.43
30.00	10.35	5.42	8.93	8.11	9.64	7.59	8.11	9.84	5.53	16.80
AVERAGE	5.41	4.04	5.46	5.57	6.10	4.81	5.43	5.76	3.80	10.00

SEAT ACCELERATION 300lbf OCCUPANT [g]										
PERFORMANCE COMPARISON	130lbf / in COIL SHOCK	160lbf / in COIL SHOCK	10" AIR SHOCK w/ ACCU, 50PSI	10" AIR SHOCK w/ ACCU, 100PSI	10" AIR SHOCK w/ ACCU, 150PSI	10" AIR SHOCK, 50PSI	10" AIR SHOCK, 100PSI	10" AIR SHOCK, 150PSI	8" SHOXSD2 SEMI- ACTIVE	DECK
	29.8%	6.0%	30.4%	31.7%	37.7%	20.9%	30.0%	34.0%		63.7%
	-6.4%	-42.4%	-5.4%	-3.4%	5.7%	-19.7%	-6.0%		-51.5%	45%
	-0.4%	-34.4%	0.5%	2.4%	11.0%	-13.0%		5.6%	-42.9%	48.1%
	11.2%	-18.9%	12.0%	13.7%	21.2%		11.5%	16.5%	-26.5%	54%
	-12.8%	-50.9%	-11.7%	-9.6%		-26.9%	-12.3%	-6.0%	-60.6%	41.6%
	-2.9%	-37.7%	-1.9%		8.8%	-15.8%	-2.5%	3.3%	-46.5%	46.8%
	-0.9%	-35.1%		1.9%	10.5%	-13.6%	-0.5%	5.1%	-43.7%	47.8%
	25.3%		26.0%	27.4%	33.7%	15.9%	25.6%	29.8%	-6.4%	61.3%
		-33.8%	0.9%	2.8%	11.3%	-12.6%	0.4%	6.0%	-42.4%	48.3%