HESSI Shutter Specifications

	Density of Aluminim	6061-T6 =	2.71 g/cm3												
	shutter ID		**B1-1**	**B1-2**	**B1-3**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9-1**	**B9-2**		
Inner Area																
	diameter	mm	6.743	6.743	6.743	6.743	6.743	6.743	6.743	6.743	6.743	6.743	6.150	6.150		
	thickness	mm	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.060	0.060		
	volume	mm^3	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.786	1.782	1.782		
Middle Area																
	diameter	mm	17.10	17.10	17.10	17.10	17.10	17.10	17.10	17.10	17.10	17.10	17.10	17.10		
	thickness	mm	0.98	0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.97	0.97	0.97	0.97		
	volume	mm^3	190.069	188.129	188.129	188.129	188.129	188.129	188.129	186.190	188.129	188.129	193.954	193.954		
Outer Area																
	diameter	mm	61.500	61.500	61.500	61.500	61.500	61.500	61.500	61.500	61.500	61.500	61.500	61.500		
	thickness	mm	0.40	0.42	0.41	0.41	0.40	0.41	0.41	0.39	0.41	0.40	0.41	0.41	0.410	0.410
	volume	mm^3	1096.37	1151.18	1123.77	1123.77	1096.37	1123.77	1123.77	1068.96	1134.74	1096.37	1123.77	1123.77		
Ears (estimate)		mm^3	45.60	47.88	46.74	46.74	45.60	46.74	46.74	44.46	47.20	45.60	46.74	46.74	46.74	46.74
Total volume		mm^3	1333.82	1388.98	1360.43	1360.43	1331.88	1360.43	1360.43	1301.39	1371.85	1331.88	1366.25	1366.25		
Calculated Weight		g	3.61	3.76	3.69	3.69	3.61	3.69	3.69	3.53	3.72	3.61	3.70	3.70		
Measured Weight		g	3.6106	3.7141	3.6979	3.6320	3.6041	3.6689	3.6729	3.5057	3.699	3.5388	3.7049	3.6717		
															Average	Std. Dev.
Difference (M-C)		g	-0.004	-0.050	0.011	-0.055	-0.005	-0.018	-0.014	-0.021	-0.019	-0.071	0.002	-0.031	-0.023	0.025
Difference		%	-0.1	-1.3	0.3	-1.5	-0.1	-0.5	-0.4	-0.6	-0.5	-2.0	0.1	-0.8		