	SHAPE	L / (R)	W	H	MASS (kg)	VOLUME (m^3)	BOUYANCY BF (N)	WEIGHT WF (N)	NETT FORCE BF - WF (N)	NEUTRAL NBM (kg)	ADD/SUB MASS (kg)
title	VOLUME DISPLACEMENT CALCULATIONS FOR SEA WATER DENSITY = 1023.6 kg/m^3 at 25 degrees C										
ALUMINIUM PROFILES (20X40)											
LEFT BEAM	BOX	0.500	0.020	0.040	0.380	0.00040	4.017	3.727	0.290	0.409	0.029
RIGHT BEAM	BOX	0.500	0.020	0.040	0.380	0.00040	4.017	3.727	0.290	0.409	0.029
CROSS BEAM FRONT	BOX	0.250	0.020	0.040	0.195	0.00020	2.008	1.913	0.095	0.205	0.010
CROSS BEAM MIDDLE	BOX	0.250	0.020	0.040	0.195	0.00020	2.008	1.913	0.095	0.205	0.010
CROSS BEAM REAR	BOX	0.250	0.020	0.040	0.195	0.00020	2.008	1.913	0.095	0.205	0.010
THRUSTERS											
LEFT	CYCLINDER	0.040		0.080	0.285	0.00040	4.038	2.796	1.242	0.412	0.127
RIGHT	CYCLINDER	0.040		0.080	0.285	0.00040	4.038	2.796	1.242	0.412	0.127
CENTRE	CYCLINDER	0.040		0.080	0.285	0.00040	4.038	2.796	1.242	0.412	0.127
EC-BOX (ELECTRONICS)											
BOX WITH EC+BATTERY	BOX	0.255	0.175	0.080	1.400	0.00357	35.848	13.734	22.114	3.654	2.254
BALLAST TANK											
MAIN TANK	CYCLINDER	0.047		0.150	0.208	0.00104	10.453	2.036	8.417	1.0655	0.858
SOLENOID VALVE	BOX	0.073	0.050	0.071	0.809	0.00026	2.602	7.936	-5.334	0.2653	-0.544
				TOTAL	4.617	0.0075	75.074	45.286	29.788	7.653	3.036

L	length		BF (N)	upward bouyancy force
R	radius		WF (N)	downward force due to gravity
W	width		NMB (kg)	neutral bouyancy mass for the object in sea water
H	height		ADD/SUB	mass to be added or removed from object to achieve neutral bouyancy