Ergonomics		Wheel Layout 1	Wheel Layout 2	HOA 1	HOA 2
Criteria	**Weight**	TadPole	Delta	-15 degrees	5 degrees
Stability	23%	5	2	3	3
Safety	27%	4	3	4	3
Complexity	5%	2	3	3	3
Weight	10%	3	3	4	3
Aerodynamic	5%	2	2	5	2
Braking	15%	3	3	3	3
Power Output	15%	3	3	5	2
	SUMS	22	19	27	19
	WEIGHTED	3.63	2.72	3.77	2.8

Braking		Design 1	Design 2	Design 3	Design 4
Criteria	**Weight**	Caliper	Cantilever	Drum	Disk
Safety	25%	5	4	3	4
Reliability	20%	3	3	3	4
Complexity	15%	4	3	3	2
Price	15%	5	4	3	2
Performance	25%	3	3	3	5
	SUMS	20	17	15	17
/5	**WEIGHTED**	3.95	3.4	3	3.65
	/10				

Ergonomics		HOA 1	HOA 2	BOA 1	BOA 2
Criteria	**Weight**	-15 degrees	5 degrees	135 degrees	110 degrees
Stability	23%	3	3	3	3
Safety	27%	4	3	3	3
Complexity	5%	3	3	2	3
Weight	10%	4	3	3	3
Aerodynamic	5%	5	2	4	2
Braking	15%	3	3	3	3
Power Output	15%	5	2	5	2
	SUMS	27	19	23	19
	WEIGHTED	3.77	2.8	3.3	2.8

Roll Cage		SCALE [1-5]		[HIGH SCORE = BETTER]	
Criteria	**Weight**	2-point	4-point	3-point	Wrap-around
Weight	15.0%	4	3	3	2
Protection	30.0%	2	4	3	4
Drag Coeff	10.0%	2	2	2	3

Deflection	30.0%	1	4	3	3
Price	15.0%				
Resistant to Cracks	15.0%				
Manufacturing	15.0%	4	3	3	3
SUM = 1 ->	100.0%				
SUMS		13	16	14	15
Weighted SUMS		2.26	2.72	2.35	2.44

1 = Worst	10 = Best		Tear drop		Kamn
Design Criteria		Weigh	Rank	Weighted	Rank
Weight		15%	5	0.75	5
Manufacturability		20%	7	1.4	7
Aerodynamic		25%	8	2	6
Cost		18%	7	1.26	7
Aesthetic		22%	9	1.98	4
				0	
				0	
				0	
				0	
SUM		1		7.39	

BOA 1 135 degrees	BOA 2 110 degrees
3	3
3	3
2	3
3	3
4	2
3	3
5	2
23	19
3.3	2.8

MATERIAL		
Steel	Aluminum	Carbon Fiber
3	4	5

3	4	3
4	4	1
4	3	1
4	3	2
18	18	12
2.39	2.42	1.95

n tail	Ellipse		U-shape		None	
Weighted	Rank	Weighted	Rank	Weighted	Rank	Weighted
0.75	5	0.75	5	0.75	10	1.5
1.4	7	1.4	7	1.4	10	2
1.5	5	1.25	5	1.25	3	0.75
1.26	7	1.26	7	1.26	10	1.8
0.88	8	1.76	6	1.32	3	0.66
0		0		0		0
0		0		0		0
0		0		0		0
0		0		0		0
5.79		6.42		5.98		6.71