

Date: 10/14/2020

Input areas are in yellow

[illegible]

	Customer Needs	Weight	Engineering Requirement										
				Decrease weight		Increase vibrational resistance		Increase yield strength (all hardware)		Increase ultimate strength (all hardware)		Increase buckling resistance (P/C hardware	
										Maintain Area Limitations		Decrease Crush Ratings	
												Meets ESD safety	
												Meets NG Design GD&T	
1	Ease /Safety of Installation	7		3									9
2	Scalable	8		1						3			9
3	Re-openable	4		1						1			
4	No Contaminates (FOD)	8										3	
5	Does not solely use gravity	6		3									
6	Activates on launch	10		3	1							3	
7	No interference on nearby systems	9								9		3	9
8	No influence on aerodynamics	9		9						9			
9	ESD safe material	7		3	1					1	1	9	3
10	indicates open/closed status	1										9	
11	Affordable	8		3	3	3	3	3	3	3	3	3	1
12	Lightweight	10		9		3	3	3	3		1	3	
13	Reliability	8			9	9	9	9	9		9	9	
14	Durability	7		3		3	3	3	3				
Units of Engineering Requirements				lbm	G	#	#	#	#	in ²	psi	Y/N	N/A
Target ER Values				<= 5	Max 70	Min 2	Min 2	Min 2.3	Max 203	Max 810	Yes	N/A	

Legend

9	strong relationship
3	moderate
1	weak