



Phase A L2 Structures Requirements

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Phase A L2 Structures Requirements

Requirement ID	Requirement Description	L1 Reference Requirement
L2_Str_1	Must have 1/8 inch vent hole in each sealed part of rocket	
L2_Str_2	Rocket structure must be able to withstand flight conditions	
L2_Str_3	No structural low-temp polymers or stainless	
L2_Str_4	Eyebolts must be forged steel closed loop, not bent wire	
L2_Str_5	Airframe Joints must be stiff and extend no more than one body caliber	
L2_Str_6	Must have launch lugs (hardpoints) to attach rocket to launch rails	
L2_Str_7	Phoenix II Carbon tubes must be at least as, if not more structurally sound than existing tube	
L2_Str_8	Carbon tubes must be significantly lighter than the comparable existing blue tubes	
L2_Str_9	Carbon tubes must maintain tight tolerances to allow precise friction fits with fairings, nose cone, and other existing parts of Phoenix II	
L2_Str_10	Carbon tube fabrication must be repeatable and consistent	
L2_Str_11	Carbon tubes must be adaptable to different structural mounts, including the motor mount, fin mounts, payload mount, and teather mounts.	