# Questions

1. **Lower/Upper cola**
	* In the delivered Step Model, the Cupolas are not designed as Carbon Sandwiches, both skins are missing.
	* Do you want me to design them/will you deliver them or was it on purpose since the main goal of the Quarter Model is to verify the internal structure?



1. **Fixation Brackets (green) – Bolts (blue) – Radiators (orange)**
	* In the first iteration I would assume that the fixation brackets and the bolts are done out of 1 part. Do you agree?

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1. **Material list**
	* Could you confirm this material list? I highlighted in red the components not indicated in the document you sent, but partly discussed in the meeting of Wednesday.

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| Component | Material |
| Shaker feet | Aluminum  |
| Radiator | Aluminum  |
| Radiator to radiator fixation | Aluminum  |
| Upper/Lower cupola (Core only) | Hexcel CRIII-3/15-5056-.001-3.1 |
| Carbon octo frame | M46/EX-1515 |
| Octo Frame to frame fixation | M46/EX-1515 |
| Backplate reinforcement/ Vibration brackets/ octoframe to fix shaker feet/radiators | Aluminum  |
| Mechanical structure – Top/Bottom skin | M55J/EX1515  |
| Mechanical structure – Honeycomb t= 70 mm | Carbon Fibre – Assume Hexcel CRIII? |
| QLCS – Top/Bottom skin | M55J/EX1515  |
| QLCS – Honeycomb t= 5 mm | Carbon Fibre – Assume Hexcel CRIII? |
| Ladders – Silicone Sensors t = 0.3 mm | PCB - FR4  |
| Ladders – Silicone LEF t = 1.35 mm | PCB - FR4 |
| Ladders – Attachment LBB t= 0.17 mm | PCB - FR4  |

1. **Ladders**
	* As discussed in the meeting I assume the QLCS as following single components. Do you agree?
	* Silicone Sensors (red); Silicone LEF (grey), Ladder attachment (bottom view, yellow)
	* The “y-plane” is analogue but remains out of a left and a right half



1. **Radiator to radiator fixation**
	* Are these fixations welded to the radiators? There are no holes in the step model

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1. **QLCS**
	* Can I correct these displacements between the attachment holes of the core and skin? Or do they have a reason?
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2. **Glue**
	* Since one of the goals of the Analysis is to define the damping properties of the unknown glue, wouldn't it be meaningful to simulate the glue also as a solid body and adapting its properties?
	* Or do you want to assume in a first iteration a bounded contact only?
	* Could you send me a picture of the slide of the glue layers, that you showed us? Even if I do not have to model them I need to know where it is glued to chose the right contact boundaries in FEM (e.g., are the LBB ladders glued to the top skin – no attachment holes)