# Questions

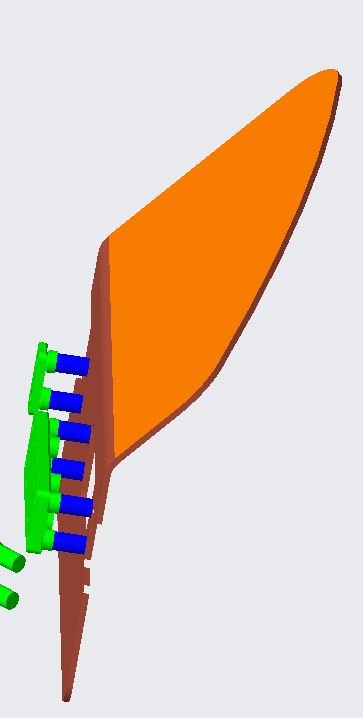
1. **Lower/Upper cola** 
   * In the delivered Step Model, the Cupolas are not designed as Carbon Sandwiches, both skins are missing.
   * Do you want me to design them/will you deliver them or was it on purpose since the main goal of the Quarter Model is to verify the internal structure?

Immagine che contiene testo

Descrizione generata automaticamenteImmagine che contiene testo

Descrizione generata automaticamente

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?

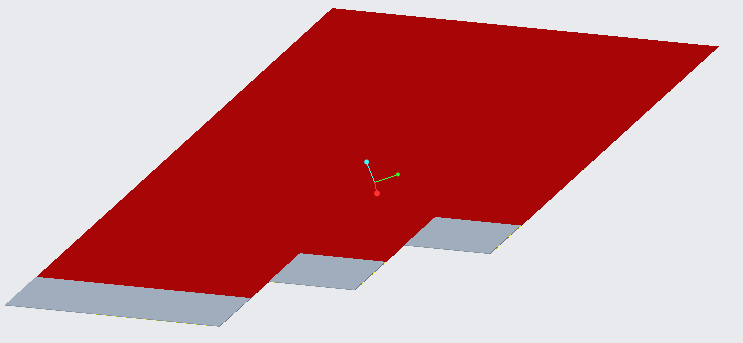
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Descrizione generata automaticamente

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.

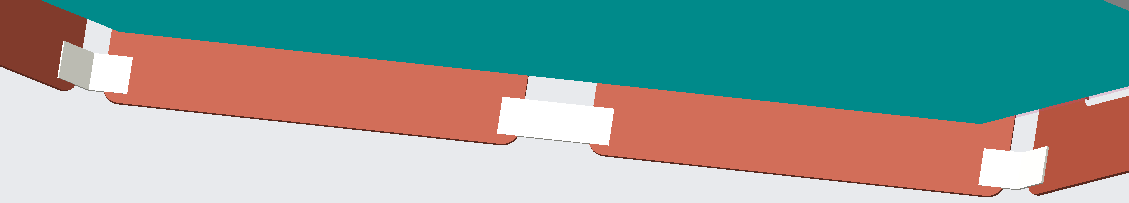
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| --- | --- |
| Component | Material |
| Shaker feet | Aluminum |
| Radiator | Aluminum |
| Radiator to radiator fixation | Aluminum |
| Upper/Lower cupola (Core only) | Hexcel CRIII-3/15-5056-.001-3.1 |
| Carbon octo frame | M46/EX-1515 |
| Octo Frame 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 |

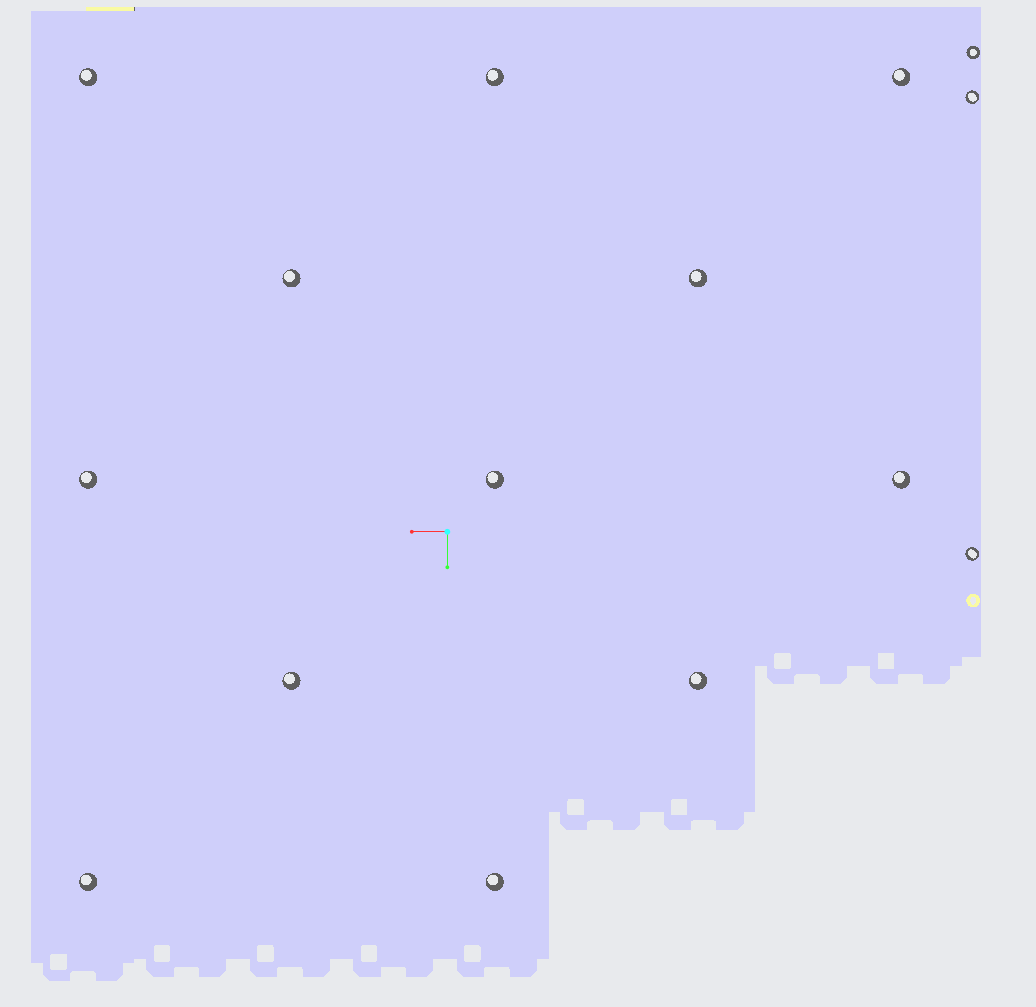
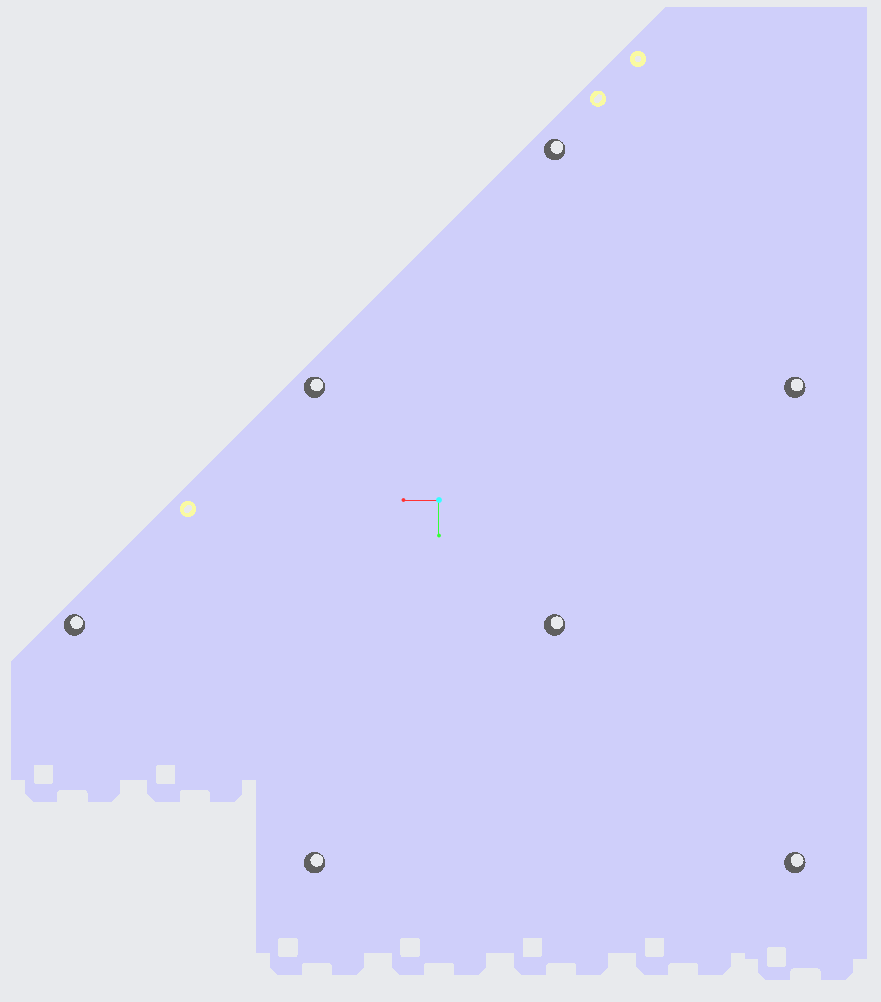
1. **Ladders** 
   * As discussed in the meeting I assume the QLCS as following single components. Do you agree?
   * Silicone Sensors (red); Silicone LEF (grey), Ladder attachment (bottom view, yellow)
   * The “y-plane” is analogue but remains out of a left and a right half

Immagine che contiene testo, bigliettodavisita, busta, stazionario

Descrizione generata automaticamente

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)