

1. Overall construction costs – got a budget
2. Weight of device – want to keep lightweight and easy to install
3. Simplicity of design – only have so long to work on this, don't want to make it too complex and difficult to design or explain to a potential user
4. Ease of use – want the actual usage process to be easy and as self explanatory as possible for potential users, we want this to make their lives better and simpler, not more complicated
5. Feasibility – both in relation to time and the laws of physics, it needs to be something that can be completed (or as far as we can get it)
6. Time to complete one full cycle (lowest height to highest height) – want the seat to move at an appropriate velocity
7. Weight limit – theoretically want to support the largest possible range of weights while meeting the rest of the requirements