# Layout

## Structure

A summary of literature data on the structural specifications in similar bat-inspired models are specified below:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SNo | Model | MTOW (g) | Frame Material | Density  (g/cc) | Skin Membrane | Density  (kg/m3) | Ref |
| 1 | Tailless bat | 289 | Carbon fibre composite | 1.55 - 1.6 | Polyester fiber material | N/A | [1] |
| 2 | B2 Bat Bot | 93 | Carbon fibre tubes | 1.55 - 1.6 | ultrathin silicone based membrane - 0.056mm thickness | N/A | [2][3] |
| 3 | B2.0 | 90 | Carbon fibre tubes | 1.55 - 1.6 | 2 layered silicone membrane - 0.33+0.31 mm thickness | N/A | [3] |
| 4 | RoboFalcon FWAV | 600 | 3k carbon fibre rods - 2mm, 1.5mm | 1.55 - 1.6 | Ripstop polyester fabric - 210T | N/A | [4] |
| 5 | Bionic Flying Fox | 580 | Body - foam skeleton - milled carbon rods, 3d printed parts | 1.4 | Knitted elastane fabric | N/A | [5] |