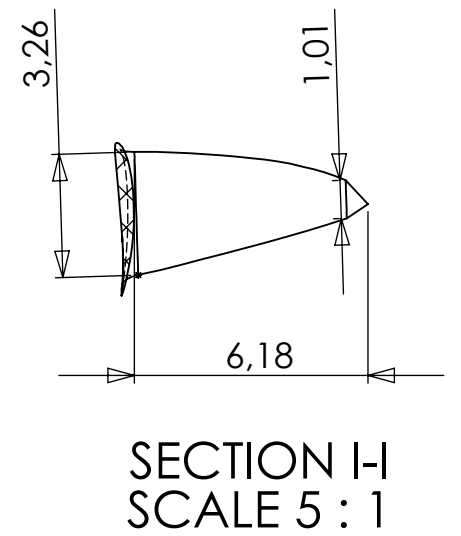
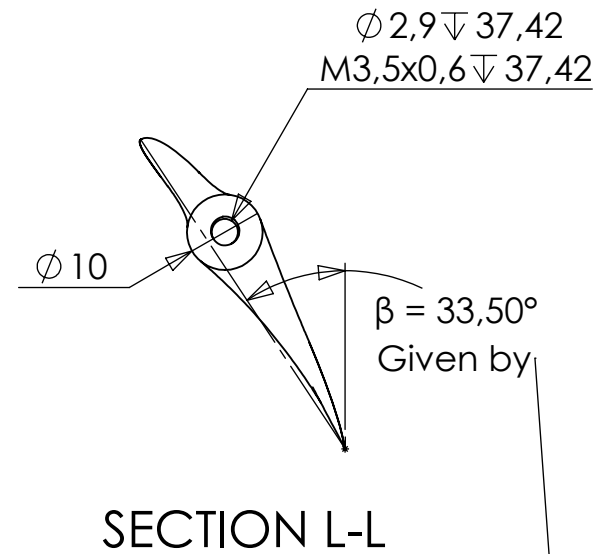
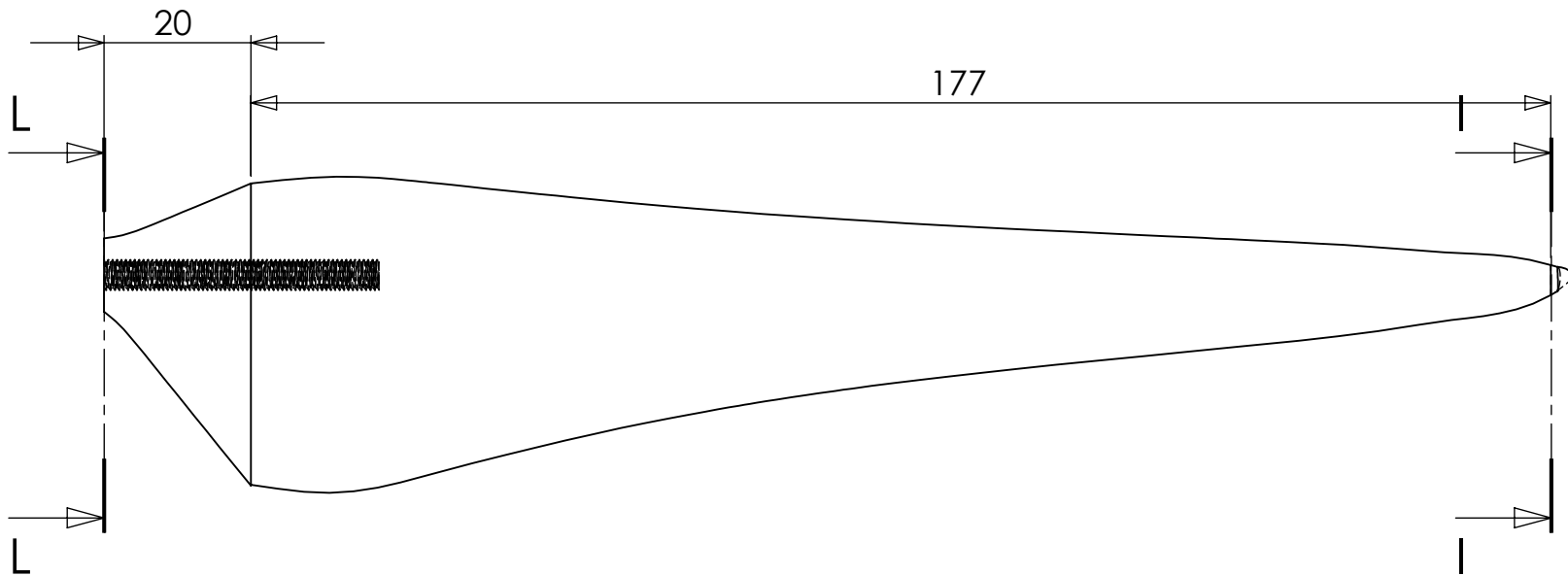


SG6043 AEROFOIL SECTION  
USED FROM 20MM FROM ROOT UNTIL THE TIP



$$\beta(r) = 57,3 \operatorname{atan} \left( \frac{3,25e+5}{7320r + \sqrt{5,35e+7r^2 + 1e+7r + 5,29e+10} - 2060} \right) - 4,6$$

|            |          |                        |        |                                      |  |           |  |   |  |
|------------|----------|------------------------|--------|--------------------------------------|--|-----------|--|---|--|
| TOLERANCES |          | THIRD ANGLE PROJECTION |        | MATERIAL:                            |  | TITLE:    |  | Imperial College<br>London<br>Department of Aeronautics |  |
| X          | =± 0.5   | ANGULAR                | ±1°    | ABS PLASTIC                          |  | Blade     |  |   |  |
| X.X        | =± 0.1   | SURFACE FINISH         |        | ALL DIMENSIONS<br>ARE IN MILLIMETRES |  |           |  |   |  |
| X.XX       | =± 0.02  | MACHINED<br>FACES      | Ra 6.3 | DO NOT SCALE DRAWING                 |  | DWG No.   |  |   |  |
| NAME       |          | DATE                   |        | A3                                   |  | SCALE 1:1 |  | 2 of 3  |  |
| DRAWN      | Group 17 | 07/06/2020             |        |                                      |  |           |  | SHEET 1 OF 1  |  |
| CHECKED    | XXXX     | XXXX                   |        |                                      |  |           |  | REVISION 1  |  |
| APPROVED   | XXXX     | XXXX                   |        |                                      |  |           |  |   |  |