

Sizing of high lift devices using Parapy: output file

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Planform file name: test_planform2

Input parameters:

| | |
|-----------------|-------------|
| wing_span | = 15.0 m |
| root_chord | = 6.0 m |
| taper_inner | = 0.65 |
| taper_outer | = 0.3 |
| kink_position | = 9.0 m |
| flap_gap | = 0.2 m |
| sweep_deg | = 35.0 deg |
| dihedral_deg | = 4.0 deg |
| front_spar | = 0.2 x/c |
| rear_spar | = 0.7 x/c |
| outer_flap_lim | = 0.7 y/b |
| fuselage_radius | = 1.5 m |
| clmax | = 1.4 |
| twist | = 2.0 deg |
| speed | = 100.0 m/s |
| airfoil_name | = ex1 |
| flap_type | = Slotted |

Output parameters:

| | |
|---------------------|------------|
| Cl_max of airfoil | = 0.927 |
| Delta Cl_max | = 0.473 |
| Flap hinge location | = 0.91 x/c |
| Flap deflection | = 45 deg |