# Sizing of high lift devices using Parapy: output file

Saved at: 2020-05-08 09:04:29.722430
Planform file name: RJ_100
<span style="color:red">The HLDs were sized using the CL_max of the clean wing provided by the user in the main file. No external analysis was carried out.</span>

## Input parameters:

| | |
|---|---|
| wing_span | = 13.1 m |
| root_chord | = 4.35 m |
| taper_inner | = 0.759 |
| taper_outer | = 0.469 |
| kink_position | = 5.0 m |
| flap_gap | = 0.0 m |
| sweep_deg | = 18.0 deg |
| dihedral_deg | = -2.0 deg |
| front_spar | = 0.2 x/c |
| rear_spar | = 0.6 x/c |
| outer_flap_lim | = 0.93 y/b |
| fuselage_radius | = 1.78 m |
| clmax | = 2.32 |
| twist | = -3.0 deg |
| max_deflection | = 30.0 m/s |
| speed | = 62.8 |
| airfoil_name | = 4415 |
| flap_type | = Slotted |

## Output parameters:

| | |
|---|---|
| Cl_max clan | = 1.2 |
| Delta Cl_max | = 1.12 |
| Flap hinge location | = 0.77 x/c |
| Flap deflection | = 30.0 deg |
| Stall AoA | = Unknown deg |
| Flaps per wing | = 2 |
| Flapped wing area | = 13.7312 m^2 |

## Other parameters

| | |
|---|---|
| Mach number | = 0.1831 |
| Kink chord | = 3.3016 m |
| Tip chord | = 1.5485 m |

## Cross section of airfoil with the flap system: