Sizing of high lift devices using Parapy: output file

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Planform file name: RJ_100

The HLDs were sized using the CL_max computed by external analysis using xfoil and AVL

External analysis was carried out

Input parameters:

Output parameters:

wing_span root_chord taper_inner taper_outer kink_position flap_gap sweep_deg dihedral_deg front_spar rear_spar	= 13.1 m = 4.35 m = 0.759 = 0.469 = 5.0 m = 0.0 m = 18.0 deg = -2.0 deg = 0.2 x/c = 0.6 x/c	CI_max clan Delta CI_max Flap hinge location Flap deflection Stall AoA Flaps per wing Flapped wing area	= 1.5908 = 0.8092 = 0.85 x/c = 30.0 deg = 16.5 deg = 2 = 7.0813 m^2
outer_flap_lim fuselage_radius clmax twist	= 0.7 y/b = 1.78 m = 2.4 = -3.0 deg	Other parameters Mach number Kink chord	= 0.1831 = 3.3016 m
max_deflection speed airfoil_name flap_type	= 30.0 m/s = 62.8 = 4415 = Slotted	Tip chord	= 1.5485 m

Cross section of airfoil with the flap system:

