

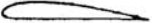
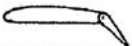



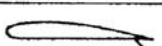



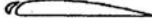
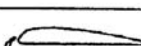
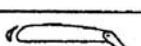
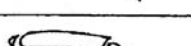
Designation	Diagram	$C_{L_{max}}$	α at $C_{L_{max}}$ (degrees)	L/D at $C_{L_{max}}$	$C_{m_{ac}}$	Reference NACA
Basic aerofoil Clark Y		1.29	15	7.5	-.085	TN 459
.30c Plain flap deflected 45°		1.95	12	4.0	-	TR 427
.30c Slotted flap deflected 45°		1.98	12	4.0	-	TR 427
.30c Split flap deflected 45°		2.16	14	4.3	-0.250	TN 422
.30c hinged at .80c Split flap (Zap) deflected 45°		2.26	13	4.43	-0.300	TN 422
.30c hinged at .90c Split flap (Zap) deflected 45°		2.32	12.5	4.45	-0.385	TN 422
.30c Fowler flap deflected 40°		2.82	13	4.55	-0.660	TR 534
.40c Fowler flap deflected 40°		3.09	14	4.1	-0.860	TR 534
Fixed slot		1.77	24	5.35	-	TR 427
Handley Page automatic slot		1.84	28	4.1	-	TN 459
Fixed slot and .30c plain flap deflected 45°		2.18	19	3.7	-	TR 427
Fixed slot and .30c slotted flap deflected 45°		2.26	18	3.77	-	TR 427
Handley Page slot and .40c Fowler flap deflected 40°		3.36	16	3.7	-0.740	TN 459

Figure 3.21. High-lift devices