

Specification semi-scale models

Feature			PILATUS PORTER	Lear Liner	Fokker E III	DC-9	elfe S3	C 36
			304	305	307	308	310	312
Wingspan	b	m	1.9	2.72	1.7	2.16	3.0	1.71
Length of fuselage	l	m	1.27	3.38	1.25	2-31	1.45	1.27
Wing chord (centre)	t_i	m	0.245	0.52	0.295	0.47	0.20 (0.73)	0.327
Wing chord (tip)	t_a	m	0.245	0.285	0.295	0.18	0.12	0.195
Wing area	F	m ²	0.456	1.092	0.48	0.70	0.537	0.446
Aspect ration	Λ	--	7.9	6.75	6.0	6.67	16.8	6.55
Chord aspect	t_a/t_i	--	1.0	0.55	1.0	0.38	0.6	0.6
Span on elevator	b_{HLW}	m	0.60	0.800	0.567	0.738	0.65	0.470
Elevator chord (centre)	t_{iHLW}	m	0.155	0.280	0.134	0.286	0.140	0.180
Elevator chord (tip)	t_{aHLW}	m	0.155	0.160	0.134	0.102	0.100	0.110
Elevator area	F_{HLW}	m ²	0.093	0.180	0.070	0.14	0.078	0.068
Total area	F_{tot}	m ²	0.55	1.272	0.55	0.84	0.615	0.514
Take-off weight	G	N	37	120	30	100	20	35
Wing load	g	N/m ²	67.4	94	54.6	119	37.4	68
Wing profile (centre)	--	NACA	2415	4415	6412	---	6412	--
Wing profile (tip)	--	NACA	2415	2415	6412	---	6412	--
Sweep	φ	°	0	23.8	0	26	0	0
Engine	--	cm ³	10	2 x 10	7.5	2 x 10	(3.5)	10
Flaps	--	--	yes	yes	nein	yes	yes	yes
Floating elevator	--	--	no	no	no	no	yes	no
Retractable landing gear	--	--	no	no	no	no	no	yes (special)