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Model calculation program

With the included file, any type of model aircraft, be it motored or sail planes, with or without remote control, may be calculated. It is based on a series of articles by Karl-Heinz Denzin, which were published in the 1970's in the German magazine "Modell". I have designed a couple of models with this software and they have all flown properly.

Select first the desired model type on the top drop-down menu above the green area. Then start with the weight or the span of the desired model. Use the drop-down menu in the green area to determine whether to start with the span or the weight and then enter the values in the green area. Fill in the green area completely.

	A	B	C	D	E	F	G
1	www.lenel.ch	beat@lenel.ch					
2							
3	Modelltyp:	RC-Motormodell mit tragendem Profil				Richtwerte	
4						Minimal Normal Maximal	
5	Spannweite	2000	mm	0	1250	k.A.	
6	Flächenbelastung	50	g/dm ²	0	45	k.A.	
7	V-Form-Typ	1	fach	1	1	2	
8	V-Form-Winkel	4	Grad	2	5	11	
9	Anteil Ohren (0% für keine)	20.00%	Prozent	0%	k.A.	100%	
10	Streckung	7		5	7	8	
11	Trapezverhältnis	1.3		1	1	1.5	
12	Rippenabstand	0.2	% Fl.tiefe	0.17	0.2	0.33	
13	Flächenanteil Höhenleitwerk	30%		20%	30%	30%	
14	Trapezverhältnis Höhenleitwerk	1.3		1.0	1.0	1.5	
15	Rumpflänge vor SP	186	mm	226	451	451	(Segler)
16				191	286	286	(Motor)
17	Rumpflänge Total (zum Vergleich)			1128	1353	1353	(Segler)
18				872	967	967	(Motor)
19	Einstellwinkeldifferenz	3	Grad	1.0	3.0	3.0	
20	Seitenleitwerksfläche	200	cm ²	400	514	514	
21	Streckung Seitenleitwerk	1.5		0.8	1.5	2.0	
22	Trapezverhältnis Seitenleitwerk	1.5		1.0	1.5	2.0	
23	Modellname	Testmodell					
	Datenblatt MODEL						

With File / Print a fact sheet is printed, which fits on one page A4. By means of this data sheet, you can now draw the plan. I found the program also useful to calculate fuselages for left-over wings or vice versa!

Click on the paper clip to extract the Excel-File: 

Thal, 21st November 2010
 B. Lenel