

Fuselage

not contained in shortkit

item	nbr.	name	size	material	code
Ra1	2	former 1 outside	thickness 3mm	poplar plywood	milled part
Ri1	1	former 1 inside	thickness 3mm	poplar plywood	milled part
Ra2	2	former 2 outside	thickness 3mm	balsawood	milled part
Ru2	1	former 2 downside	thickness 3mm	poplar plywood	milled part
Ra3	2	former 3 outside	thickness 3mm	balsawood	milled part
Ri3	1	former 3 inside	thickness 3mm	poplar plywood	milled part
Ra4	2	former 4 outside	thickness 3mm	poplar plywood	milled part
Ru4	1	former 4 downside	thickness 3mm	poplar plywood	milled part
Ra5	2	former 5 outside	thickness 3mm	balsawood	milled part
Ri5	1	former 5 inside	thickness 3mm	poplar plywood	milled part
Ra6	2	former 6 outside	thickness 3mm	balsawood	milled part
Ra7	2	former 7 outside	thickness 3mm	poplar plywood	milled part
Ra8	2	former 8 outside	thickness 3mm	poplar plywood	milled part
Ri8	1	former 8 inside	thickness 3mm	poplar plywood	milled part
Ra9	2	former 9 outside	thickness 3mm	poplar plywood	milled part
Ru9	1	former 9 downside	thickness 3mm	poplar plywood	milled part
Ra10	2	former 10 outside	thickness 3mm	poplar plywood	milled part
Ru10	1	former 10 downside	thickness 3mm	poplar plywood	milled part
Ra11	2	former 11 outside	thickness 3mm	poplar plywood	milled part
Ri11	1	former 11 inside	thickness 3mm	poplar plywood	milled part
Ra12	2	former 12 outside	thickness 3mm	poplar plywood	milled part
Ru12	1	former 12 downside	thickness 3mm	poplar plywood	milled part
Ru13	1	former 13 downside	thickness 3mm	poplar plywood	milled part
Ru16	1	former 16 downside	thickness 3mm	poplar plywood	milled part
Ra16	2	former 16 outside	thickness 3mm	balsawood	milled part
Ro16	2	former 16 upside	thickness 3mm	balsawood	milled part
Ra17	2	former 17 outside	thickness 3mm	balsawood	milled part
Ri17	1	former 17 inside	thickness 3mm	poplar plywood	milled part
R18	2	baseplate cockpit	thickness 3mm	poplar plywood	milled part
R19	1	nose-former	thickness 3mm	balsawood	milled part
Ri20	1	cover inner structure	thickness 3mm	poplar plywood	milled part
Ri21	2	sidewall inner structure	thickness 3mm	poplar plywood	milled part
Ri22	1	floor inner structure	thickness 3mm	poplar plywood	milled part
Ri23	1	cover backside inner structure	thickness 3mm	poplar plywood	milled part
Ri24	2	sidewall backside inner structure	thickness 3mm	poplar plywood	milled part
R25	1	mounting plate nose retract servo	thickness 3mm	poplar plywood	milled part
Ri26	1	former 18 inside	thickness 3mm	poplar plywood	milled part
Ra26	2	former 18 outside	thickness 3mm	balsawood	milled part
Ri27	1	former 19 inside	thickness 3mm	poplar plywood	milled part
Ra27	2	former 19 outside	thickness 3mm	balsawood	milled part
R28	2	sidewall frontside inner structure	thickness 3mm	poplar plywood	milled part
R29	1	central plank frontside	thickness 3mm	poplar plywood	milled part
R30	2	inside rib nacelle pod	thickness 3mm	poplar plywood	milled part
R31	2	outside rib nacelle pod	thickness 2mm	birch plywood	milled part
R32	4	fixation plank for nacelle	thickness 2mm	birch plywood	milled part
R33	2	leading edge nacelle pod	thickness 3mm	poplar plywood	milled part
R34	1	mounting plate nose retract unit	thickness 3mm	birch plywood	milled part
R34d	1	doubler plate nose retract unit	thickness 3mm	birch plywood	milled part
Ro35	1	central plank cockpit	thickness 3mm	poplar plywood	milled part
Ru35	1	central plank nose	thickness 3mm	poplar plywood	milled part
R36	2	roof cockpit	thickness 3mm	poplar plywood	milled part

R37	1	horizontal plank nose	thickness 3mm	poplar plywood	milled part
R38	2	filler 1 cockpit	thickness 10mm	balsawood	milled part
R39	2	filler 2 cockpit	thickness 10mm	balsawood	milled part
R40	2	filler 3 cockpit	thickness 10mm	balsawood	milled part
R41	2	filler 4 cockpit	thickness 10mm	balsawood	milled part
R42	2	filler 5 cockpit	thickness 10mm	balsawood	milled part
R43	2	filler 1 nose	thickness 10mm	balsawood	milled part
R44	2	filler 2 nose	thickness 10mm	balsawood	milled part
R45	2	filler 3 nose	thickness 10mm	balsawood	milled part
R46	2	filler 4 nose	thickness 10mm	balsawood	milled part
R47	2	filler 5 nose	thickness 10mm	balsawood	milled part
R48	2	filler 6 nose	thickness 10mm	balsawood	milled part
R49	2	filler 7 nose	thickness 10mm	balsawood	milled part
R50	2	filler 8 nose	thickness 10mm	balsawood	milled part
R51	2	filler 9 nose	thickness 10mm	balsawood	milled part
R52	2	downside ledge inner structure	5x5 x 890mm	balsawood	ledge
R53	2	lateral ledge halfway upside	5x3 x 1020mm	balsawood	ledge
R54	2	lateral ledge upside	5x5 x 1020mm	balsawood	ledge
R55	2	ledge upside inner structure	5x5 x 960mm	balsawood	ledge
R56	2	ledge nose gear	5x5 x 115mm	fir	ledge
R57	1	ledge upside backside	5x5 x 300mm	balsawood	ledge
R58	2	lateral ledge middle	5x3 x 1650mm	balsawood	ledge
R59	2	lateral ledge wingjunction	5x3 x 950mm	balsawood	ledge
R60	1	downside ledge middle	5x5 x 1150mm	balsawood	ledge
R62	2	mounting sleeve for fan	Ø22/20 x 65mm	phenol	tube
R63	2	planking nacelle pod	thickness 1.5mm	balsawood	plank
R64	1	planking fuselage	thickness 2mm	balsawood	plank
R65	1	ground plate fixation rudder-servo	thickness 2mm	birch plywood	milled part
R66	2	sidewall fixation rudder-servo	thickness 2mm	birch plywood	milled part
R67	1	mounting plate rudder-servo	thickness 2mm	birch plywood	milled part
R68	1	doubler 1 mountig plate rudder-servo	thickness 3mm	poplar plywood	milled part
R69	1	doubler 2 mountig plate rudder-servo	thickness 3mm	poplar plywood	milled part
R71	2	sidewall battery-compartment	thickness 3mm	poplar plywood	milled part
R72	6	downholder battery-compartment	thickness 3mm	poplar plywood	milled part
R73	1	mounting platte for battery	thickness 3mm	birch plywood	milled part
R74	2	strengthening ledge	5x5 x 351.5mm	fir	ledge
R75v	1	fin	thickness 8mm	balsawood	milled part

middle part of wing, fixed to fuselage

not contained in shortkit

item	nbr.	name	size	material	code
M1	2	end-rib	thickness 2mm	birch plywood	milled part
M1d	2	doubler end-rib	thickness 2mm	birch plywood	milled part
M2	2	rib 2	thickness 3mm	poplar plywood	milled part
M3	2	rib 3	thickness 3mm	poplar plywood	milled part
M4	2	inner rib	thickness 2mm	birch plywood	milled part
M5	1	main spar	thickness 2mm	birch plywood	milled part
M5d	2	doubler mainspar	thickness 6mm	balsawood	milled part
M6	1	secound spar	thickness 2mm	birch plywood	milled part
M8	2	last spar	thickness 2mm	birch plywood	milled part
M9	2	nose spar	thickness 3mm	poplar plywood	milled part
M11	2	mounting-plate for retract-unit	thickness 3mm	birch plywood	milled part
M12	2	crosspiece	thickness 2mm	birch plywood	milled part
M13	2	stiffener retract mount	thickness 3mm	birch plywood	milled part
M13a	2	stiffener retract mount	thickness 3mm	birch plywood	milled part
M14	1	main flange	5x5 x 450mm	fir	ledge
M15	1	auxiliary flange	5x5 x 450mm	fir	ledge
M16	4	leading edge	10x6 x 135mm	balsawood	ledge
M17	2	mounting sleeve	Ø22/20 x 200mm	phenol	tube
M18	1	planking middle part of wing	thickness 1.5mm	balsawood	plank

ST	2	stand consisting of 3 parts	thickness 4mm	poplar plywood	milled part
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rudder

not contained in shortkit

item	nbr.	name	size	material	code
S1	1	rib 1 rudder	thickness 3mm	poplar plywood	milled part
S2	1	rib 2 rudder	thickness 3mm	poplar plywood	milled part
S3	1	rib 3 rudder	thickness 3mm	poplar plywood	milled part
S4	1	rib 4 rudder	thickness 3mm	poplar plywood	milled part
S4d	1	doubler rib 4 rudder	thickness 3mm	poplar plywood	milled part
S5	1	mainspar rudder	thickness 3mm	birch plywood	milled part
S6	1	auxiliary spar rudder	thickness 3mm	birch plywood	milled part
S7	1	leadingedge rudder	thickness 10mm	balsawood	milled part
S8	2	side-flange rudder	thickness 2mm	balsawood	milled part
S9	1	leadingedge rudder downside	thickness 10mm	balsawood	milled part
S10	3	fin rudder	thickness 8mm	balsawood	milled part
S11	1	rudder spar	thickness 8mm	balsawood	milled part
S12	2	planking channeling	thickness 1mm	birch plywood	milled part
S13	1	stiffener rudder	thickness 3mm	poplar plywood	milled part
S14	1	planking rudder	thickness 2mm	balsawood	plank
S15	1	mounting sleeve	Ø14/12 x 76mm	phenol	tube
S16	1	drive-in nut	M5	steel	prefab
S22	2	insert	thickness 6mm	balsawood	milled part

tailend

not contained in shortkit

item	nbr.	name	size	material	code
Rh13	1	former 13	thickness 2mm	birch plywood	milled part
Ra14	1	former 14	thickness 3mm	poplar plywood	milled part
Ra15	1	former 15	thickness 3mm	poplar plywood	milled part
Rh64	1	planking	thickness 2mm	balsawood	plank
R70	1	mating piece	thickness 6mm	balsawood	milled part
R75	1	vertical longitudinal former	thickness 3mm	poplar plywood	milled part
R75d	2	doubler fin	thickness 2mm	balsawood	milled part
R76	2	horizontal longitudinal former	thickness 3mm	balsawood	milled part
R77	1	end-former	thickness 3mm	balsawood	milled part
R78	2	centering-dowel	Ø5 x 20mm	beech	dowel

fuselage-lid

not contained in shortkit

item	nbr.	name	size	material	code
D1	2	sidewall	thickness 2mm	balsawood	milled part
D2	4	former	thickness 3mm	balsawood	milled part
D3	1	ledge upside middle	5x5 x 615mm	balsawood	ledge
D4	1	planking	thickness 2mm	balsawood	plank
D5	2	slide actuator	thickness 2mm	birch plywood	milled part
D6	2	base plate	thickness 2mm	birch plywood	milled part
D7	2	slide	thickness 3mm	poplar plywood	milled part
D8	2	frame	thickness 3mm	poplar plywood	milled part
D9	4	cover	thickness 3mm	poplar plywood	milled part

movable part of rudder

not contained in shortkit

item	nbr.	name	size	material	code
S15-1	1	leadingedge 1	thickness 8mm	balsawood	milled part
S15-2	1	leadingedge 2	thickness 6mm	balsawood	milled part
S15-3	1	leadingedge 3	thickness 6mm	balsawood	milled part
S16	1	planking	thickness 1.5mm	balsawood	plank
S17	1	rib 1	thickness 6mm	balsawood	milled part
S18	1	rib 2	thickness 2mm	balsawood	milled part
S19	1	rib 3	thickness 2mm	balsawood	milled part
S20	1	rib 4	thickness 2mm	balsawood	milled part
S21	1	middletrib	thickness 3mm	balsawood	milled part
S23	1	drive-shaft	Ø8/6 x 60	carbon	tube
S24	4	pen-hinge (for example: Graupner)	Ø3 x 50mm	plastic material	prefab

elevator

not contained in shortkit

item	nbr.	name	size	material	code
H1	2	rib 1	thickness 3mm	poplar plywood	milled part
H2	2	rib 2	thickness 2mm	balsawood	milled part
H3	2	rib 3	thickness 2mm	balsawood	milled part
H4	2	rib 4	thickness 2mm	balsawood	milled part
H5	2	rib 5	thickness 2mm	balsawood	milled part
H6	2	rib 6	thickness 2mm	balsawood	milled part
H7	2	rib 7	thickness 2mm	balsawood	milled part
H8	2	rib 8	thickness 2mm	balsawood	milled part
H9	2	leading edge	10x20 x 440mm	balsawood	milled part
H10	2	spar	10x2 x 295mm	fir	ledge
H11	1	middle cover	thickness 10mm	balsawood	milled part
H12	1	upside cover	thickness 10mm	balsawood	milled part
H13	1	downside cover	thickness 10mm	balsawood	milled part
H14	1	middle part of leading edge	thickness 10mm	balsawood	milled part
H15	1	planking elevator	thickness 1.5mm	balsawood	plank
H16	2	middle rib central part	thickness 2mm	balsawood	milled part
H17	1	frontformer central part	thickness 3mm	poplar plywood	milled part
H18	1	middleformer central part	thickness 3mm	poplar plywood	milled part
H19	1	central rib	thickness 3mm	poplar plywood	milled part
H20	1	middle plank of central part	thickness 3mm	poplar plywood	milled part
H21	1	joining rib central part	thickness 2mm	birch plywood	milled part
H22	1	former backside central part	thickness 2mm	balsawood	milled part
H23	2	cover downside central part	thickness 10mm	balsawood	milled part
H24	2	hinge-spar front	thickness 6mm	balsawood	milled part
H25	2	hinge-spar backside	thickness 6mm	balsawood	milled part
H26	2	servo frame	thickness 2mm	birch plywood	milled part
H27	2	rib backside downside central part	thickness 2mm	balsawood	milled part
H28	1	rib upside central part	thickness 2mm	balsawood	milled part
H29	4	wing tip	thickness 6mm	balsawood	milled part
H30	2	wing tip base part	thickness 1mm	birch plywood	milled part
H31	2	servo cover	thickness 1.5mm	birch plywood	milled part
H32	1	mounting tube	Ø12/10 x 125mm	aluminium	tube
H33	1	tube for guiding screw head	Ø12/10 x 44mm	aluminium	tube
H34	1	support sleeve	Ø6.5/5.5 x 39.5	aluminium	tube
H35	1	planking central part	thickness 1.5mm	balsawood	plank
H36	1	screw	M5 x 50	nylon	prefab
H37	2	filler	thickness 10mm	balsawood	rest of wood
H38	2	horn elevator	thickness 2mm	fiberglass	milled part
H39	1	centering dowel	Ø6 x 20mm	beech	dowel

wing

not contained in shortkit

(mentioned number is good for one winghalf)

item	nbr.	name	size	material	code
F1	1	root rib	thickness 2mm	birch plywood	milled part
F2	1	rib	thickness 3mm	poplar plywood	milled part
F3	1	rib	thickness 3mm	poplar plywood	milled part
F4	1	rib	thickness 2mm	birch plywood	milled part
F4a	1	rib doubler	thickness 3mm	poplar plywood	milled part
F5	1	rib	thickness 2mm	balsawood	milled part
F6	1	rib	thickness 2mm	balsawood	milled part
F7	1	rib	thickness 2mm	balsawood	milled part
F8	1	rib	thickness 2mm	balsawood	milled part
F8a	1	rib doubler	thickness 3mm	poplar plywood	milled part
F9	1	rib	thickness 2mm	balsawood	milled part
F9a	1	rib doubler	thickness 3mm	poplar plywood	milled part
F10	1	rib	thickness 2mm	balsawood	milled part
F11	1	rib	thickness 2mm	balsawood	milled part
F12	1	rib	thickness 2mm	balsawood	milled part
F13	1	rib	thickness 2mm	balsawood	milled part
F14	1	rib	thickness 2mm	balsawood	milled part
F15	1	crosspiece	thickness 3mm	poplar plywood	milled part
F16	1	Abschluss	thickness 2mm	birch plywood	milled part
F17	1	rib	thickness 3mm	poplar plywood	milled part
F18	1	rib	thickness 3mm	poplar plywood	milled part
F19a	1	leading edge outside	thickness 3mm	poplar plywood	milled part
F19i	1	leading edge inside	thickness 3mm	poplar plywood	milled part
F20	1	servoframe flap	thickness 3mm	poplar plywood	milled part
F21	1	servocover flap	thickness 1.5mm	birch plywood	milled part
F22	1	servoframe aileron	thickness 3mm	poplar plywood	milled part
F23	1	servocover aileron	thickness 1.5mm	birch plywood	milled part
F24	1	flap ledge	thickness 3mm	poplar plywood	milled part
F25	1	back end ledge inside	thickness 2mm	birch plywood	milled part
F26	1	back end ledge outside	thickness 1.5mm	birch plywood	milled part
F27	1	aileron ledge	thickness 1.5mm	birch plywood	milled part
F28a	1	flap hinge part 1 inside	thickness 2mm	birch plywood	milled part
F28b	1	flap hinge part 2 inside	thickness 2mm	birch plywood	milled part
F28c	1	flap hinge part 3 inside	thickness 2mm	birch plywood	milled part
F28d	1	flap hinge part 4 inside	thickness 2mm	birch plywood	milled part
F29a	1	flap hinge part 1 middle	thickness 2mm	birch plywood	milled part
F29b	1	flap hinge part 2 middle	thickness 2mm	birch plywood	milled part
F29c	1	flap hinge part 3 middle	thickness 2mm	birch plywood	milled part
F29d	1	flap hinge part 4 middle	thickness 2mm	birch plywood	milled part
F30a	1	flap hinge part 1 outside	thickness 2mm	birch plywood	milled part
F30b	1	flap hinge part 2 outside	thickness 2mm	birch plywood	milled part
F30c	1	flap hinge part 3 outside	thickness 2mm	birch plywood	milled part
F30d	1	flap hinge part 4 outside	thickness 2mm	birch plywood	milled part
F31	1	centering dowel	Ø5 x 20mm	beech	dowel
F32	1	centering tongue	thickness 2mm	birch plywood	milled part
F33	1	upside spar	10x2 x 840mm	fir	ledge
F34	1	downside spar	10x2 x 840mm	fir	ledge
F35	1	mounting tube for wing	Ø20/18 x 250mm	aluminium	tube
F36	1	mounting sleeve	Ø22/20 x 200mm	phenol	tube
F37	1	planking	thickness 1.5mm	balsawood	plank
F38	3	wingtip	thickness 6mm	balsawood	milled part

F39	2	leading edge inside	10x6 x 220mm	balsawood	ledge
F40	2	leading edge outside	10x5 x 650mm	balsawood	ledge
F41	1	frontledge flap	thickness 6mm	balsawood	milled part
F42	1	horn flap	thickness 2mm	fiberglass	milled part
F43	1	horn aileron	thickness 2mm	fiberglass	milled part

nacelle

not contained in shortkit

(mentioned number is good for one nacelle)

item	nbr.	name	size	material	code
G1	1	mountingplate fan	thickness 2mm	birch plywood	milled part
G2	1	former 2	thickness 3mm	poplar plywood	milled part
G3	1	former 3	thickness 3mm	poplar plywood	milled part
G4	1	former 1	thickness 3mm	poplar plywood	milled part
G5	1	former 4	thickness 3mm	poplar plywood	milled part
G6	1	former 5	thickness 3mm	poplar plywood	milled part
G7	1	former 6	thickness 3mm	poplar plywood	milled part
G8	4	quarter of inlet-lib	thickness 10mm	balsawood	milled part
G9	1	stringer outside	thickness 3mm	poplar plywood	milled part
G10	1	stringer inside front	thickness 3mm	poplar plywood	milled part
G11	1	stringer inside backside	thickness 3mm	poplar plywood	milled part
G12	1	stringer downside	thickness 3mm	poplar plywood	milled part
G13	1	stringer upside	thickness 3mm	poplar plywood	milled part
G14	1	centering dowel	Ø4 x 20mm	beech	dowel
G15	1	rib 2	thickness 2mm	birch plywood	milled part
G16	1	rib 1	thickness 2mm	birch plywood	milled part
G17	1	inlettube made of thrusttube Wemo	Ø69mm	fiberglass	prefab
G18	1	auxiliary ledge	5x3 x 150mm	balsawood	milled part
G19	1	planking nacelle pod	thickness 1.5mm	balsawood	plank
G20	1	planking nacelle	thickness 1.5mm	balsawood	plank
G21	1	mounting tube	Ø20/18 x 80mm	aluminium	tube
G22	1	thrusttube Wemotec 22cm	Ø69mm	fiberglass	prefab
G23	1	Wemotec Minifan*	Ø69mm		prefab

* not contained in any kit