

Material List for Pietenpol Air Camper (ORIGINAL) compiled by Robert McKinley

Revised by Mark Chouinard (my contributions in **BOLD**)

ERIN W @ Wicks Aircraft.com

**FUSELAGE REQUIREMENTS**

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Count	Dimensions	Notes
4	1" x 1" x 15'	Longerons 185.40 3.88 190.80
1	1" x 1" x 6'	16.20 2.35 14.10
1	1" x 1" x 5'	13.50 Cut for two tailposts and ripped to 7/8" for both use #2 11.75
2	7/8" x 1" x 8'	31.84 2.06 32.86
1	7/8" x 1" x 6'	11.94 1.71 10.26
4	3/4" x 1" x 8'	56.96 1.83 58.56
1	3/4" x 1" x 3'	5.34 1.52 4.56
5	1/2" x 1" x 6'	45.60 1.28 38.40
1	5/8" x 1" x 5'	8.40 1.43 7.15

374.78

368.54

**TAIL GROUP REQUIREMENTS**

Count	Dimensions	Notes
2	1" x 1" x 8'	43.20 "main beam" hinge point for horiz stab and rudder fin/rudder 4512 282
2	1" x 1" x 5'	27.00 8' = 42 1/2 EL FRONT x 2 and 90 HORIZ REAR; 7' = 43 1/2 RUD FRONT 2350 235
2	1" x 1" x 7'	37.80 and 31 TAIL REAR; 6' = 20 EL IB, 21 RUD TOP, 18 TAIL BOT; 5' = 18 ELE OB x 239.48 282
1	1" x 1" x 6'	16.20 20 EL IB, 21 RUD BOT, 36 HORIZ ENDS (I think) 14.10 235
4	3/4" x 1" x 8'	56.96 Leading Edge / Center Beam 58.56 183
2	3/4" x 1/2" x 5'	11.90 11.90 Diagonal Brace 9.80 98
1	5/8" x 1-1/8" x 9' 8"	17.91 Trailing Edge (Aircraft Spruce provides 5/8" x 1-1/4") 18.54 205
9	3/16" 1/2" x 6'	24.84 McKinley counted 7 17.28 32
9	3/16" x 1/2" x 4'	19.56 McKinley counted 7 11.52 32

255.37

237.98

**WING REQUIREMENTS**

Count	Dimensions	Notes
4	1" x 4-3/4" x 14'	498.96 Main Spars (Aircraft Spruce provides 3/4" x 4-3/4") 756.00
2	1" x 4-3/4" x 29" 36"	53.46 Center Section Spars (Aircraft Spruce provides 3/4" x 4-3/4") 60.00
4	1/2" x 3" x 7'	157.08 Aileron Spars 210.00
2	1/2" x 1-1/2" x 7'	32.20 Aileron Brace 33.46
4	3/4" x 3/4" x 5'	28.60 Compression Struts 24.00
4	1/2" x 1/2" x 7'	24.08 Diagonal Braces (tip and root) 22.96

72 pcs. Total in Aircraft Spruce Wood Package

2 1 x 1 3/4 x 13

798.38

1/2 Ply

1 1 x 1 3/4 x 3

WING RIBS (not included in Aircraft Spruce wood package)

1,106.42

110	1/4" x 1/4" x 60"	540' capstrip - up to 65HP
	1/4" x 1/2" x 60"	540' capstrip - if over 65HP
2	1/2" x 1/2" x 60"	12' capstrip for nose blocks

The wood package from Aircraft Spruce does not include any of the wing rib, wing tip bow or plywood materials.

The count that I have provided is based upon the Aircraft Spruce wood package that I recieved in July 2009, which is still being offered as of this writing... I have noted the minor differences where they differ from McKinley's count.

I found that 540' of capstrip (60" sticks), was enough to build the 3-piece wings with only a couple of sticks to spare.

I can't provide an honest estimate for the plywood as each project seems to have slightly different requirements.

1,424.53

1,712.86