



Turnabout F1D
by Jake Palmer
1st Place West Baden 2017
26:02 + 26:06
5/99 32.9 mg/in (1.30 g/m)
398mg - 1209 turns, 65 remain

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Component	Description	lb/ft ³	mg
Wing			375
spars (2)	.035 x .100 -> .035 x .065	5.8	
tips (2)	.034 x .045	4.8	
middle ribs (3)	.024 x .050	4.5	
comp ribs (2)	.024 x .024 top, .030 x .030 bottom .003 boron uprights	4.5	
tubes (2)	.047 ID fiberglass		
covering	OS Film		
Motor Stick			340
blank	.014 C (2 x .004 boron, 4 and 8 o'clock) .250 ID	4.3	
bracing post	.050 -> .040 round x .625 tall	8	
wing posts (2)	.039 ID x .046 OD carbon pultrusion		
bracing line	¼ strand Spiderwire 6 lb test		
bearing	Harlan		
tail hook	.013 music wire		
front web	.020 x .75 C	4.7	
rear web	.020 x .68 C	4.7	
extension	.009 (2 x .003 boron, top and bottom) .236 ID	4.2	
Stab			148
spars	.028 x .055 -> .028 x .035	5.2	
ribs (3)	.024 x .055	4.5	
Tail boom			147
blank	0.009 (2 x .003 boron, top and bottom)	4.2	
stab posts (2)	.047 round x .5	8	
Rudder			10
outline	.024 x .024	4.5	
Prop			300
outline	18.25 D (Treger pitch)		
ribs (4)	M60J carbon tow, EZ-Lam 60 resin .024 x .024 (2 x .004 boron 1st rib)	4.5	
Spars	.039 ID x .046 OD carbon pultrusion		
VP	Palmer (low 27, high unknown)		
Rubber			398
	5/99 32.9 mg/in (1.30 g/m) 1209 turns, 65 remain		

