



## 'Base Model' F1D

by Evan Guyett  
 USA Team Selection  
 Kibbie Dome 2019  
 27:32 + 27:26

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### Trim Notes

CG: 87%  
Incidence: 3.2°  
Left Rudder: 2°  
Left Thrust: 3.7°  
Down Thrust: 0°  
Bracing Wire: Slack

### Weights (measured at 15% humidity)

Motorstick	384 mg
Wing	350 mg
Boom + fin	171 mg
Stab	151 mg
Prop w/ VP	268 mg
Spacers	45 mg
Humidity Increase (at Kibbie)	36 mg
Total	1405 mg

### Rubber

30.5mg/in (1.20g/in), 1340 turns, 5 backoff, 25 remaining

### Propeller

Orsovai M89 Blade Shape, 18.50" (470mm) Diameter  
Hunt Style VP, 27.6" (700mm) low pitch, 45.3" (1150mm) high pitch  
Spar: 1/16" rounded 7# balsa w/ 4x 0.004" boron each spar, w/ spiral wrapped Kevlar  
Outline: 0.025" x 0.045" → 0.025" tapered 5# A, 0.004" Boron capped  
Covering: Y2K Film

### Motorstick/Stub

Motorstick Tube: 0.013" 4.1# C 0.25 OD Tube  
Stub: 0.011" 4.6# C First 3.5" of Harlan Taper Form  
Boron: 3x 0.004" Boron @ 12:00, 4:00, 8:00  
Wing Posts: 0.040" x 0.065" 6# A w/ 4x 0.004" Boron on each post  
Bearing/Rear hook: 0.013 Music Wire, Coslick Style Bearing

### Boom

Tube: 0.009" 4.3# C Harlan Taper Form  
Stab Posts: 0.035" x 0.040" 6# A  
Boron: 3x 0.003" Boron @ 12:00, 4:00, 8:00

### Wing

Spars: 0.040" x 0.065" x 14.25" 5# A w/ 0.004" boron  
Tips: 0.030" x 0.050" 5# A  
Covering: OS Film

### Stab

Spars: 0.025" x 0.040" x 10" 5# A w/ 0.003" boron  
Tips: 0.025" x 0.035" 5# A, no boron  
Covering: Y2K Film