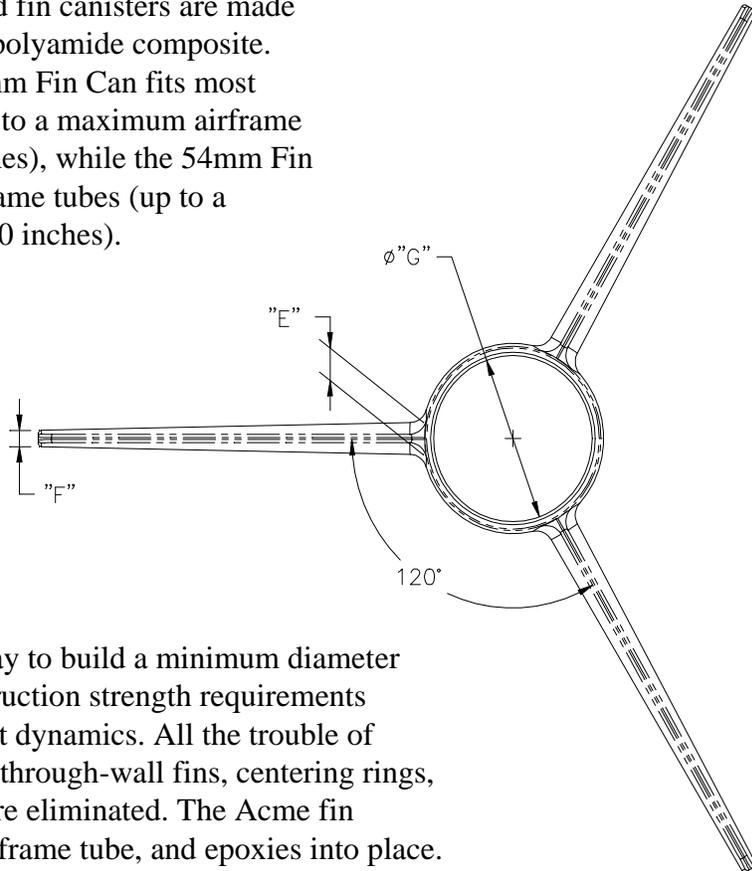


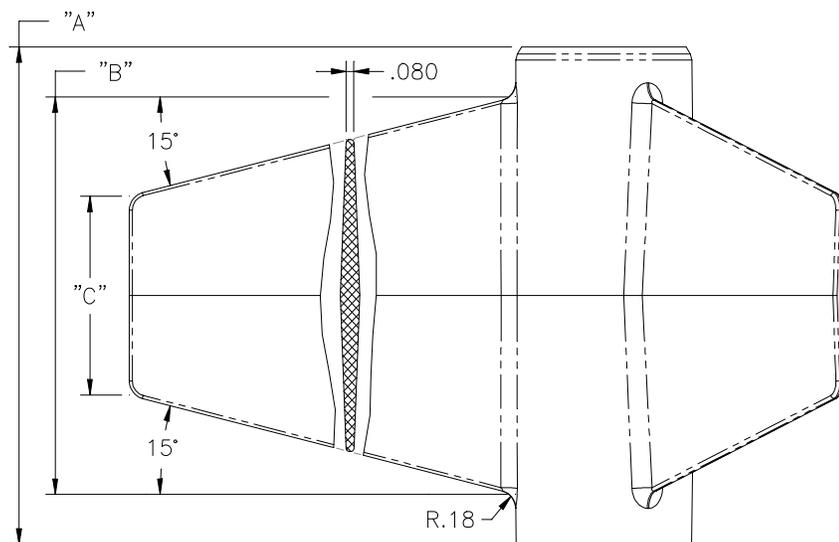


# Acme Fin Canisters

Acme's one-piece injection-molded fin canisters are made from super-tough BASF Ultramid polyamide composite. Two designs are available: the 38mm Fin Can fits most common 38mm airframe tubes (up to a maximum airframe tube outside diameter of 1.670 inches), while the 54mm Fin Can fits most common 54mm airframe tubes (up to a maximum outside diameter of 2.280 inches).



There's really no easier or faster way to build a minimum diameter rocket, and still maintain the construction strength requirements dictated by high power rocket flight dynamics. All the trouble of oversize airframe tubes, individual through-wall fins, centering rings, slotting, fin filleting, and the like are eliminated. The Acme fin canister simply slides onto your airframe tube, and epoxies into place.





# Acme Fin Canisters

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FEATURE	38mm FIN CAN	54mm FIN CAN
"A" SLEEVE LENGTH	5.00 in	6.00 in
"B" FIN ROOT CHORD	4.00 in	5.00 in
"C" FIN TIP CHORD	2.00 in	2.50 in
"D" FIN LENGTH (SPAN)	5.00 in	6.00 in
"E" FIN ROOT THICKNESS (AT CENTERLINE)	0.325 in	0.400 in
"F" FIN TIP THICKNESS (AT CENTERLINE)	0.162 in	0.200 in
"G" INSIDE DIAMETER	1.670 in	2.290 in
WEIGHT	0.40 lb	0.75 lb

## Acme Fin Canister Installation Instructions

Before installation, sand all surfaces of the fin canister as required to remove molding flash, parting lines, etc, using fine grit sandpaper.

Place the fin canister onto the airframe tube, and slide the canister to its installation location. Mark the canister's forward and aft end locations onto the airframe tubing with a Sharpie marker. It is suggested that you leave about an inch of airframe tube protruding aft of the end of the canister trailing edge, to allow for motor taping, motor retainers, staging couplers, etc.

To promote epoxy adhesion, scuff sand fiberglass and composite tubing between the marks in a circumferential direction; for paper tubing, remove the glassine layer between the marks. Scuff sand the inside diameter of the fin canister in a circumferential direction (not longitudinally) with 120 grit sandpaper, also to promote epoxy adhesion. Clean all surfaces to be bonded (except paper) with isopropyl alcohol.

As this fin canister was designed to fit several brands of airframe tubing, it may be necessary to build up the outside diameter of the airframe tube to match the inside diameter of the canister. Using 1/2-inch wide masking tape or paper packing tape (do not use plastic tape, epoxy will not adhere), wrap the airframe tubing in 2 or 3 places along the length of the airframe tube between the previously marked lines. Build up the tape in EVEN layers so that the canister seats firmly and concentrically on the tube and tape, in line with the previously marked lines. It is very important, for proper flight, that the fin canister is concentric to the airframe tube.

Remove the fin canister. Prepare approximately 1/2-fluid ounce epoxy with 30 minute cure time. Apply epoxy evenly on all exposed airframe tubing and tape between the marked lines. Slide the canister (chamfered end forward!) onto the airframe tube to the final position. Seat the canister firmly on the tape, between the lines, and remove any excess epoxy. Position the assembly with the forward end down, but ensure that the canister cannot slide out of place, while the epoxy cures.

After the epoxy has fully cured, filleting material may be applied at the forward and aft ends of the fin canister, to smoothly fair the airframe to the canister. Lightly scuff sand the fin canister with extra fine sandpaper in preparation for painting, and clean with isopropyl alcohol. Epoxy or enamel finishes are recommended.