



Laminar Flow and Surface Roughness

While visiting with Klaus Savier last winter he mentioned how to measure surface roughness so it could be determined if air flow would be laminar or not.

He explained that waviness of .001" per 1" of distance is superb! .005" per 1" of distance is pretty good and anything rougher than that will be non-laminar. That all sounded fine but I didn't know how to determine my waviness measurement. Klaus explained that one could make his

own measuring device with a dial indicator and a small block supported above the surface by three rounded end rods.

Construct the block as shown and insert the dial indicator in the center. Move the assembly 1" in any direction and hope to stay under .005" change if laminar flow is desired. If waviness is excessive - get out the sand paper/micro fill.

Klaus reports you can also feel excess waviness by moving your flat hand over the testing surface rapidly with light pressure.

For Sale

2 sets Long-EZ plans - \$185 each, 2 sets Lycoming engine Installation plans - \$20 each, 1 set E-Racer plans - \$85, 1 set Lycoming engine cowling \$275, Long-EZ fuselage sides and associated bulk heads - \$300.

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Sympathy

Long-EZ builder and airline pilot Phil Cornelius of Kellyville, OK was killed in the crash of his Long-EZ. It has been reported that he and a passenger, along with another Long-EZ with two aboard, were returning home from Mexico in MVFR frontal activity. About 80 miles east of Albuquerque the Cornelius aircraft impacted a hill top at full power and both occupants were fatally injured. Conjecture has it that a down burst may have forced them into the ground. Even full O-320 power was not able to arrest the rate of descent.

Our sincere sympathy is with the families.

Power Micro Sander

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Bruce Vinnola (WY) - I have had several builders request drawings of my power sander. I bought the cheapest B & D that Wal-Mart had and it works great. I originally used a 1/4 sheet sander but the reciprocating mass was too much for the smaller rubber mounts. Sears makes a 1/2 sheet sander but it looked to be more difficult to modify to full sheet capability.

