

ARDELT, EUGENE M.

MODELS: Ardel EA-5 Glider, 1 POLM

T.C. NUMBER: 14 (Approved 7/29/43)

Type	Class III
Airspeed limits	Glide or dive - 50 mph True Ind. Auto-winch tow - 45 mph True Ind.
C.G. range	(+26.3) to (+30.2)
Datum	Leading edge of wing at root
Leveling means	Top longeron
Maximum empty weight	375 lbs. (+38.29) to (+39.75) (See NOTE 1)
Maximum weight	545 lbs.
No. seats	1 (+2)
Baggage	None
Control surface movements (See NOTE B)	Elevator - Up 38 degrees - Down 38 degrees Aileron - Up 15 degrees - Down 16 degrees Rudder - Right 24 degrees - Left 24 degrees Tab (elevator) Up 18 degrees - Down 18 degrees (Measured in relation to the neutral and deflected positions of the respective chord lines.)
Serial Nos. eligible	3 and up (See NOTE A and B)
Required equipment	Item 401
Certification basis	Glider Type Certificate No. 14 (CAR 5)
Production basis	None (See NOTE A and B)

Equipment:

A plus(+) or minus (-) sign preceding the weight of an optional item indicates the net weight change between that item and the equivalent required item.

Interior Equipment		
401. Airspeed indicator	1 lb.	(-24)
Miscellaneous (not listed above)		
601. Wing tip skids	4 lbs.	(+21)

NOTE A. Prior to original certification, each glider must satisfactorily pass:

- (a) An inspection for workmanship, materials and conformity before any covering or final finish is applied. All woodwork may be varnished.
- (b) A final inspection of the completed glider.
- (c) A check of flight characteristics.

NOTE B. A glider of the model manufactured by other than Eugene M. Ardel (formerly University of Denver) will be eligible for an airworthiness certificate provided an affidavit is submitted to the effect that the glider was constructed in accordance with the approved Eugene M. Ardel (University of Denver) Construction Manual and drawings and that all parts and materials specified therein were used. Such glider must satisfactorily pass all inspections required in NOTE A.

NOTE 1. Weight report only required. The actual empty weight to be used for certification shall not exceed 375 lbs. and the empty weight C.G. range is (+38.3) to (+39.75). Weight report shall include list of equipment included in certificated weight empty and must be submitted for each glider with the original agent's report and each subsequent report covering a change in equipment.

NOTE 2. The following placards must be installed in full view of the pilot:

- (1) "Minimum weight of pilot and ballast in cockpit 117 lbs.
Pilot Weight (lbs.) Tab Setting
117-135 Full Up
136-155 Neutral
155-170 Full Down".
- (2) "Airplane tow prohibited."
- (3) "Cloud soaring prohibited."