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Main overview:

The fuselage is made by composite shell form fibre glass and epoxy resin. The wings are also shell, but the coverage is made from sandwich CfC (composite-foam-composite). The wing beam is fibre glass. A two-part cabin cover is from organic glass, both two parts of cabin open independently to the right. Landing gear consists of retractable wheel at the bottom of the fuselage and a fixed spur at the tail. The towing device is in the nose of the fuselage.

History:

G-103 Twin Astir made by Grob company is a two-seat sailplane based on the previous single-seat type. First take-off was performed in 1976 and this sailplane was originally designed as a sailplane for a sport gliding and advanced training before the retraining to the single-seat types. In 1981 Tom Knauff flew off with the later version of this sailplane Twin Astir II distance 622 nm, it's, in the conversion, 1001 km.

Main technical data:

Wingspan	17,5m	
Length	8,1 m	
Height	1,6 m	
Wing area	17,9 m	2
Max. take-off weight	650 kg	
Empty weight	395 kg	
Never exceed speed	250 km/h	
Minimum speed	68 km/h	
Glide ratio	1:38,5	
Descending speed	0,62 m/s	