



Aviation Investigation Final Report

Location: Sterling, Massachusetts Accident Number: ERA21LA329

Date & Time: July 15, 2021, 16:00 Local Registration: N129MG

Aircraft: ALEXANDER SCHLEICHER GMBH & CO ASW 27-18 Aircraft Damage: Substantial

Defining Event: Loss of control on ground **Injuries**: 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

According to the pilot, there was a slight depression in the narrow, paved strip used for glider takeoffs, and that during the takeoff roll, the left wing "flexed" and "dipped" such that the wingtip contacted the turf which created the pivot point around which the glider "ground-looped" which fractured the empennage aft of the cockpit.

The pilot added that there had been "3 weeks of heavy rain" prior to the day of the accident and that the grass on either side of the takeoff strip was longer than usual, which reduced his wingtip clearance. He stated that while he had successfully departed the strip earlier that day, a lower grass height would have lowered his risk exposure during the takeoff run.

The pilot reported that there were no pre-accident mechanical malfunctions or anomalies that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's failure to maintain the glider's stability in the roll axis during the takeoff roll, which resulted in a dragged wingtip and ground loop.

Findings

Aircraft	Lateral/bank control - Not attained/maintained

Personnel issues Aircraft control - Pilot

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Factual Information

History of Flight

Takeoff Loss of control on ground (Defining event)
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Pilot Information

Certificate:	Private	Age:	70
Airplane Rating(s):	Single-engine land	Seat Occupied:	Single
Other Aircraft Rating(s):	Glider	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	None	Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	July 15, 2020
Flight Time:	3216 hours (Total, all aircraft), 435 hours (Total, this make and model), 323 hours (Pilot In Command, all aircraft), 63 hours (Last 90 days, all aircraft), 21 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	ALEXANDER SCHLEICHER GMBH & CO	Registration:	N129MG
Model/Series:	ASW 27-18	Aircraft Category:	Glider
Year of Manufacture:	2012	Amateur Built:	
Airworthiness Certificate:	Experimental (Special)	Serial Number:	29081
Landing Gear Type:	Retractable -	Seats:	1
Date/Type of Last Inspection:	November 1, 2020 Annual	Certified Max Gross Wt.:	1322 lbs
Time Since Last Inspection:		Engines:	0
Airframe Total Time:	472 Hrs at time of accident	Engine Manufacturer:	
ELT:	Not installed	Engine Model/Series:	
Registered Owner:	On file	Rated Power:	
Operator:	On file	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KFIT,348 ft msl	Distance from Accident Site:	8 Nautical Miles
Observation Time:	15:52 Local	Direction from Accident Site:	12°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	9 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	230°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.04 inches Hg	Temperature/Dew Point:	31°C / 16°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Sterling, MA	Type of Flight Plan Filed:	None
Destination:	Sterling, MA	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class G

Airport Information

Airport:	STERLING 3B3	Runway Surface Type:	Asphalt;Grass/turf
Airport Elevation:	459 ft msl	Runway Surface Condition:	Dry
Runway Used:	34	IFR Approach:	None
Runway Length/Width:	2800 ft / 10 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	42.425917,-71.792861(est)

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Administrative Information

Investigator In Charge (IIC): Rayner, Brian

Additional Participating Persons:

Original Publish Date: May 17, 2022

Last Revision Date:

Investigation Class: Class 4

Note: The NTSB did not travel to the scene of this accident.

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=103721

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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