

Subject:	Increase of maximum mass
Units affected:	Sailplanes H 301 Libelle, Sailplanes H 301B, Libelle
Compliance:	optional
Reason:	<p>The payload is often very low because the max. crossweight is reached but the max weight of the non-lifting parts are not reached. The max. crossweight can be increase up to the point that the full capacity of the weight of the non-lifting parts can be used. The max. crossweight can be increased by max. 5 % due to the different demands of the airworthiness requirements at that time BVS to the following LFS.</p> <p>The action is only resonable if the mass of the non-lifting parts are not jet reached. Due to the different conditions of the individual sailplanes the increase of the max. mass of the type is not generally be possible and must be requested on individual cases.</p> <ul style="list-style-type: none"> <li>• Possible increase of certified maximum take-off mass after evaluation of actual empty masses and single masses of non-lifting parts by the Type-Certificate holder.</li> <li>• Amendment / Revision of flight manual.</li> <li>• Replacement of cockpit data plate</li> </ul>
Action:	<p><b>Note:</b> Before possible increase of MTOM, following items must be checked:</p> <ul style="list-style-type: none"> <li>• Possible reduction of empty mass by removal of equipment not required for intended use.</li> <li>• Possible reduction of empty mass by stripping old paint layers</li> </ul> <ol style="list-style-type: none"> <li>1. Determine actual empty mass, center of gravity and single masses of non-lifting parts: fuselage, horizontal stabilizer, canopy, etc.</li> <li>2. Confirmation of determined data an actual equipment list by certifying staff and/or an authorized maintenance service facility.</li> <li>3. Evaluation of data Glasfaser-Flugzeug-Service GmbH</li> <li>4. After successful evaluation, the owner/operator will receive a revised Flight Manual and a new cockpit dataplate for the requested Sailplane serial number.</li> </ol>

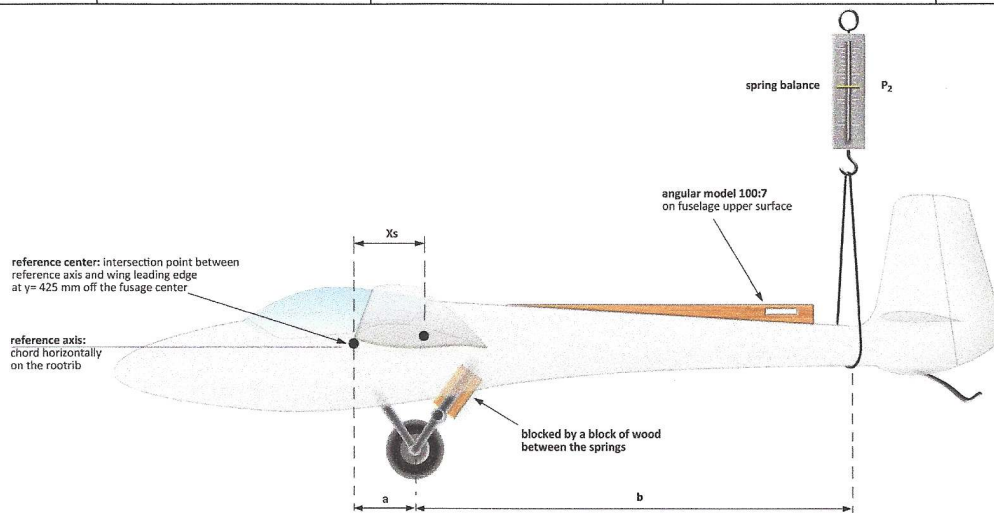
Glasfaser-Flugzeug-Service GmbH Hansjörg Streifeneder Hofener Weg 61 72582 Grabenstetten	<b>Technical Note</b> <b>No. 301-42</b>	Page: 2 of 5  TDCS EASA.A.241
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<b>Materials:</b>	Glasfaser-Flugzeug-Service GmbH H. Streifeneder Hofener Weg 61 72582 Grabenstetten Germany Tel. 07382/1032 – Fax 1629 Email: info@streifly.de	
<b>Notes:</b>	Action 3 according to this technical note must be performed by Glasfaser-Flugzeug-Service GmbH, Germany, soley.	
Grabenstetten, 14.04.2014  Issued:..... <i>H. Streifeneder</i> ..... Hansjörg Streifeneder	The technical content of this TN 301-42 is EASA-approved under 10049113 . from 13 May 2014	

Weighing results		Emtymass kg	Mass of non-lifting parts kg	Mass Limits	kg
RH wing	inner			Empty mass	
	out			Payload mass	
LH wing	inner				
	out				
Fuselage incl. rudder and canopy					
Trimm weights				<b>Remarks:</b>	
Horizontal stabilizer					
	Payload				
	<b>Results</b>				

**Determination of center of gravity**

Support point	Gross weight (kg)	Tare (kg)	Net (kg)	Arm (mm)
fwd G1				a=
aft G2				b=
		Empty weight		



<b>Empty weight c.g.</b>	$X_s = \frac{G_2 * b}{G_{total}} + a$			mm behind ref. center
			+	=
C.G range limits acc. Flight Manual	mm to	mm @ empty weight		kg
The empty weight C.G is within limits.				
The weighing was carried out in conditions as described in the equipment list		<b>Appendix 2</b>	dated:	
The mass and balance section in the flight manual had been revised.				
Place / date		Stamp	Authorized signature	

Type	H301 /301B		Serial No..	Registration
Designation	Model / Part number	Remark	Place of installation lever arm mm +/- from ref. point	
Airspeed indicator		Installed (minimum equipm.)		
Altimeter		Installed (minimum equipm.)		
Compass		Installed (minimum equipm.)		
Compass				
Variometer (VSI)		Installed		
Variometer (VSI)				
E-Variometer				
TE- Probe		Installed		
T&B indicator				
Artificial horizon				
converter				
Clock				
Radio		Installed		
Battery 1		Installed		
Battery 2		Not permitted		
Oxygen system		Not permitted		
Lap-belts		Installed		
Shoulder-belts		Installed		
Nose release		Installed		
C.G. release		Installed		
Here by it is confirmed, that this list is exactly showing the detailed equipment status of sailplane				
Place/Date	Stamp	Name	Signature	

**Order of evaluation of max. take-off mass increasement H301/H301B for Sailplane:**

<b>Registration No:</b>		<b>Serial Number</b>	
<b>Owner:(Shipping and invoice address)</b>			
Name:			
Street, No. :			
ZIP / City:			
Country			
Tel.:			
e-mail:			
<b>Shipping address: (only if different from owners address)</b>			
Name:			
Street, No. :			
ZIP / City:			
Country			
Tel.:			
e-mail:			
<ul style="list-style-type: none"> <li>• I hereby order the evaluation of mass increasement for the a.m. sailplane. I am aware, that the costs for this evaluation could be charged to me, even If the mass inceasement must be declined by evaluation results.</li> <li>• I am aware of my responsibility as sailplane owner / operator for correctness of delivered data for evaluation and for adherence to aircraft limitations.</li> </ul>			
<b>Name / Signature:</b>			
<b>Place / Date</b>			