

Option double layer

Version 01_00

About

This Document describe the process to install a double layer option to existing Ballons Chaize.

The double layer aims to decrease the fuel consumption.

The double layer or internal envelope can consist of 100%, 60% or 30% on the existing envelope.

The percentage is calculated in number of panel and rounded up.

Compatibilities

"Ballons Chaize" type JZ and CS as listed in the TCDS EASA.BA.015 can be retrofitted with a double layer.

Limitations

> Provider

The internal envelope must be provided by Ballons Chaize part 21G with a proper Form 1 and tailored to the balloon Size.

Weight

The internal envelope once fitted changes dramatically the weight of the existing envelope. A new weighing of the envelope must be performed once the internal envelope is fitted.

> Option Installation

The internal envelope can only be fitted by an approved part MF.

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Installation Procedure.

Procedure for installing the double layer.

This operation can only be performed by Ballons Chaize.

Tasks	Drawing	Visa
Envelope		
Install all the fixation point on the external envelope	500000 500300 500100 500200 (only for 100% double layer)	
Untie all the parachute centralising lines from the external envelope		
Untie all the manoeuvre ropes from the external envelope		
Remove the parachute with the manoeuvre rope from the bottom of the balloon		
Insert the internal layer from the bottom of the balloon		
Proceed to attach all the fixation scratched fixation point	500300 500100	
Tie the parachute lines attach points and manoeuvre rope attach point from the external envelope to the internal envelope	500500	
Sew the top of the double layer to the top of the envelope as described in the drawings	500400	
If the internal envelope is a 100%, attach the bottom of the internal envelope to the external envelope.	500200	

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Parachute		
On the removed parachute, untie the		
centralizing lines if present (FDS)		
Tie those point to the internal parachute	500600	
	500601	
Sew the internal parachute to the external	500601	
parachute on the fixation point		
Finishing and testing		
Install the parachute back in place		
Test inflate the balloon and use the check		
list provided to make sure everything is		
functional		
Weight the balloon		

Procedure for REMOVING the double layer.

Tasks	Visa
Envelope	
Untie all the parachute centralizing ropes from the external envelope	
Untie all the maneuver ropes from the external envelope	
Remove the parachute with the maneuver rope from the bottom of the balloon	
Unsew the double layer from the external layer on top of the ballon	
Unsew the internal parachute from the external parachute	
Untie all fixation point for maneuver ropes.	
Remove the internal layer from the bottom of the balloon	
Remove fixation scratched fixation point	
Reinstall the parachute and tie the rope and centralizing lines.	
Test inflate the balloon and use the check list provided to make sure	
everything is functional	
Weight the balloon	

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Double layer Test inflation check list

Brand	Model	Numéro de s	série)			
Flying time and number of		•					
launches							
Flying time and number of							
launches at previous							
inspection							
Temperature indicator: Displa	У						
Presence of a fuse							
Applicable Airworthiness Instr	uctions						
Points de Contrôle				OK		КО	
Double layer attachment point					[$\overline{1}$	
Rope attachment point on the do	uble layer				Ì		
Parachute rope state							
Parachute rope entanglement							
Parachute opening							
Parachute closing							
Velcros positioning							
Velcros state							
Parachute sealing							
Centralising lines							
Rotation vent rope state							
Rotation vent opening and closing							
Rotation vent rope entanglement							
Rotation vent quick opening and closing							
FDS rope state							
FDS rope entanglement							
FDS opening							
FDS closing			[[

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Doubler layer annual check list

This inspection is to be performed in addition to the annual inspection.

Brand	Model	Numéro de série

What	How	VISA
Double layer	Check the double layer fabric condition (holes /	
condition	tearing,)	
Double layer	Inspect the condition of the fixation point. Check	
attachement	the sewing of the attachment on the envelope	
point	internal and external and make sure that the fabric	
	is not worn or damage around each point.	
Double layer	Inspect all the knot that tie the internal layer	
knot	control rope and centralizing rope to the external	
attachement	layer.	
point		
Double layer	Check for any damage to the fabric or to the	
and	sewing at the attachment point of the double layer	
parachute	and the double parachute.	
sewing		

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