



**Deutscher Fallschirmsportverband (DFV) e.V.  
Deutscher Aero-Club (DAeC) e.V. Luftsportgerätebüro  
Verband unabhängiger Prüfer von Luftsportgerät e.V.**

An alle Vereine/Schulen/  
Fallschirmtechniker  
Fallschirmwarte

**Technische Mitteilung  
für Reservekappen**

herausgegeben: 20. April.2012

Nummer: 04/2012

Bezug: Erweiterung der Zulassung Decelerator-Reserven von Parachute Systems  
( ehemals Chute Shop ) in Deutschland um die Größe 135

Betroffene Muster: Decelerator 135 ( Nummer Zulassungsliste: 64.007.031 b )

Betrifft: Ergänzung der Serienzulassung Decelerator 108 bis 250  
64.007.030 bis 64.007.035

Grund: Nutzung der Decelerator-Reserve 135 in Deutschland

Bemerkungen: Durch den Hersteller wurde die Erweiterung der Palette der Größen um diese  
zusätzliche Größe von 135 sqft bekannt gegeben und damit in die  
Zulassungsliste für Deutschland aufgenommen.  
Im Anhang die TSO - Dokumente

Verteiler: Techniker, Warte, Händler, Vereine, Sprungzentren.

Dresden, den 20. April 2012

Referat Technik DFV

Ralf Homuth – Geschäftsstellenleiter VuPL

**parachutesystems**

32 Melbourne Road . Dalbridge,  
Durban, S.A. 4014

Tel: (031) 304 8038 /Fax (031) 304 8082

email: info@parachutesystems.co.za

**To Whom it May Concern**

Enclosed please find the canopy data sheet on the DECELERATOR 135.  
As is evident from the enclosed copy of correspondence from the US Department of  
Transportation, the FAA, this TSO was approved in July 1998 on the decelerator  
canopy.

Christopher M. Dales  
Managing Director  
Parachute Systems CC

INDIVIDUAL CANOPY DATA SHEET  
 (to be filled out for each size of the type/model and  
 Based on PIA measuring)  
 Please copy to the quantity needed

Note: For the canopy shapes being not rectangular, use the additional specific form supplied.

### Decelerator 135

1. CANOPY SIZE: 135 sqft
2. CHORD: 7.881 ft (Top Skin)
3. SPAN: 17.5 ft (Top Skin)
4. CELL WIDTH:
  - a. top 30.5in
  - b. bottom 26.5in
5. LINE LENGTHS inches/mm
 

A.	<u>104.3in/2650mm</u>	Upper Control Lines	<u>36.75in/933mm</u>
A.-B.	<u>2.75in/70mm</u>	Lower Control Lines	
		(top end to brake loop)	<u>72.5in/184mm</u>
		(brake loop to toggle)	<u>20in/510mm</u>
A.-C.	<u>8.07in/205mm</u>		
A.-D.	<u>15.19in/386mm</u>		
6. SLIDER SIZE
 

Span	<u>26.25 inches</u>
Chord	<u>15 inches</u>
7. WING LOADING
  - a. Max 182lbs
  - b. Min 135lbs
8. PACK VOLUME 306 cu/in



U.S. Department  
of Transportation

Federal Aviation  
Administration

In reply refer to: GENM/01/0599/C23d

Mr. van der Plaats  
Deputy Chief Engineer/Airworthiness  
South African Civil Aviation Authority  
Private Bag 203  
Waterloof 0146  
South Africa

AIRCRAFT CERTIFICATION STAFF  
c/o American Embassy  
27, Boulevard du Regent  
B-1000 Brussels, Belgium

Dear Mr. van der Plaats:

This letter refers to Chute Shop C.C. letter and Statement of Conformance, dated JUNE 22, 1998, by which they made application for Technical Standard Order (TSO) design approval. This letter also acknowledges receipt of Republic of South Africa CAA letter Ref. 1 15/9/1001: J44/431, certifying in accordance with FAR 21.617, that the personnel parachute assemblies listed below comply with the requirements of TSO C23d, as designated in FAR 21.305(b).

Based on the RSA CAA certification and receipt of the required data, we hereby accept Chute Shop C.C. TSO design approval to include personnel parachute assemblies listed below for manufacture at Chute Shop C.C. located at P.O. Box 181018 Dalbridge, Durban 4014, South Africa.

Type	Part No	Description
Decelerator Reserves	Derol/Res	Reserve Parachute Assemblies
Vortex Harness Containers	VorHQ	Storage Container

This letter of TSO design approval, together with the RSA CAA Certificate of Airworthiness for Export, will authorize Chute Shop C.C. to identify the personnel parachute assemblies with the TSO marking requirements described in FAR 21.607(d) and in TSO C23d and is issued in accordance with FAR 21.617 governing issuance of TSO design approval for import appliances. Each item must be accompanied by a Certificate of Airworthiness for Export issued by the RSA CAA or a duly authorized designee/organization (FAR 21.603(a)).

Any deviations from the established design approval should be accomplished in accordance with FAR 21.609. The request for approval to deviate, together with all pertinent data, should be submitted to the Federal Aviation Administration (FAA) through the RSA CAA and should contain information to show that the particular deviation is compensated for by factors or design features providing an equivalent level of safety.

A letter of TSO design approval issued under FAR 21.617 is not transferable and is effective until surrendered, withdrawn or otherwise terminated by the FAA (FAR 21.621).

The FAA may, upon notice, withdraw the letter of TSO design approval of any manufacturer who identifies with a TSO marking any article not meeting the performance standard of the applicable TSO (Far 21.619). The RSA CAA airworthiness certification is essential to the determination that the item meets the performance standards of the applicable TSO.

If there are any questions, please feel free to have your staff contact Gregory A. Edwards (Tel. 322.508.2714) or William J. Timberlake (Tel. 322.508.2718).

Sincerely

John R. Calomy  
Manager, Aircraft Certification Staff  
FAA-Brussels

Reference: GENM/01/0599/C23d.

This letter refers to Chute Shop C.C. letter and Statement of Conformance, dated June 22, 1998, by which they made application for Technical Standard Order (TSO) design approval. This letter also acknowledges receipt of Republic of South Africa CAA letter Ref. 115/2710/1; J44/43), certifying in accordance with FAR 21.617, that the personnel parachute assemblies listed below comply with the requirements of TSO C23d, as designated in FAR 21.305(b).

Based on the RSA CAA certification and receipt of the required data, we hereby accept Chute Shop C.C. TSO design approval to include personnel parachute assemblies listed below for manufacture at Chute Shop C.C. located at P.O. Box 181016 Delbridge, Durban 4014, South Africa.

Type	Part No	Description
Decelerator Reservoir	Dem/Res	Reserve Parachute Assemblies
Vortex Harness Containers	Vor/Hc	Stowage Container

This letter of TSO design approval, together with the RSA CAA Certificate of Airworthiness for Export, will authorize Chute Shop C.C. to identify the personnel parachute assemblies with the TSO marking requirements described in FAR 21.607(d) and in TSO C23d and is issued in accordance with FAR 21.617 governing issuance of TSO design approval for import appliances. Each item must be accompanied by a Certificate of Airworthiness for Export issued by the RSA CAA or a duly authorized designee/organization (FAR 21.602(a)).

Any deviations from the established design approval should be accomplished in accordance with FAR 21.609. The request for approval to deviate, together with all pertinent data, should be submitted to the Federal Aviation Administration (FAA) through the RSA CAA and should contain information to show that the particular deviation is compensated for by factors or design features providing an equivalent level of safety.

A letter of TSO design approval issued under FAR 21.617 is not transferable and is effective until surrendered, withdrawn or otherwise terminated by the FAA (FAR 21.621).

The FAA may, upon notice, withdraw the letter of TSO design approval of any manufacturer who identifies with a TSO marking any article not meeting the performance standard of the applicable TSO (FAR 21.618). The RSA CAA airworthiness certification is essential to the determination that the item meets the performance standards of the applicable TSO.

If there are any questions, please feel free to have your staff contact Gregory A. Edwards (Tel. 322.508.2716) or William J. Timberlake (Tel. 322.508.2718).

Sincerely,



John R. Colony  
Manager, Aircraft Certification Staff  
FAA-Brunswick

Reference: GEN/01/05/00/C23d