

# DEUTSCHER FALLSCHIRMSPORT VERBAND e.V.

Beauftragter des Bundesministeriums für Verkehr

## Luftsportgeräte-Kennblatt ( § 4 Luft VZO ) SPRUNGFALLSCHIRM - KAPPE

Geräte-Kennblatt Nr. 64.041.023

Ausgabe 2

Datum 11-94

Zulassung des Grundmusters **TEMPO**

Gerätemuster 150

Hersteller PISA

Verwendungszweck Reservekappe

Bauvorschriften FAA TSO - C 23 c

Musterzulassung erteilt am : keine Angabe

auf Grund einer Musterprüfung umfassend

vereinfacht

ergänzend

### Merkmale und Betriebsgrenzen

Baumerkmale I-Beam, Chordwise

Leinenmaße in m,cm

Zellen 7

A : 2,78 / Ansatz 1,44

Halbzellen 14

B : 2,82 / 1,20

Gewebe F 111

C : 2,96 / Ansatz 1,00

Form Rechteck

D : 1,20

Packvolumen 294 cui

St.ZwL. 1: 1,12 / 2,3,4: 1,13

St.L. 2,45 / Auge ab 1,85

Betriebsgrenzen 240 km/h

empf. max. Einhängelast 75 kg

Betriebsanweisung Herstellermanual

Besonderheiten

# DEUTSCHER FALLSCHIRMSPORT VERBAND e.V.

Beauftragter des Bundesministeriums für Verkehr

## Luftsportgeräte-Kennblatt ( § 4 Luft VZO ) SPRUNGFALLSCHIRM - KAPPE

Geräte-Kennblatt Nr. 64.041.025

Ausgabe 2

Datum 11-94

Zulassung des Grundmusters **TEMPO**

Gerätemuster 210

Hersteller PISA

Verwendungszweck Reservekappe

Bauvorschriften FAA TSO - C 23 c, Cat. B

Musterzulassung erteilt am : keine Angabe

auf Grund einer Musterprüfung umfassend

vereinfacht

ergänzend

### Merkmale und Betriebsgrenzen

Baumerkmale I-Beam, Chordwise

Leinenmaße in m,cm

Zellen 7

A : 3,20

Halbzellen 14

B : 1,52

Gewebe F 111

C : 3,46

Form Rechteck

D : 1,52

Packvolumen

St.ZwL. 1,57

St.L. 1,90 + 2,90

Betriebsgrenzen 270 km/h

empf. max. Einhängelast keine Angabe

Betriebsanweisung Herstellermanual

Besonderheiten

**Luftsportgeräte-Kennblatt**  
**( § 4 Luft VZO )**  
**SPRUNGFALLSCHIRM - KAPPE**

Geräte-Kennblatt Nr. 64.041.026

Ausgabe 2

Datum 11-94

Zulassung des Grundmusters **TEMPO**

Gerätemuster 250

Hersteller PISA

Verwendungszweck Reservekappe

Bauvorschriften FAA TSO - C 23 c

Musterzulassung erteilt am : keine Angabe

auf Grund einer Musterprüfung umfassend

vereinfacht

ergänzend

**Merkmale und Betriebsgrenzen**

Baumerkmale I-Beam, Chordwise

Leinenmaße in m,cm

Zellen 7

A : 3,54

Halbzellen 14

B : 1,83

Gewebe F 111

C : 4,19

Form Rechteck

D : 1,83

Packvolumen 421 cui

St.ZwL. 1,87

St.L. 1,00

Betriebsgrenzen 240 km/h

empf. max. Einhängelast 114 kg

Betriebsanweisung Herstellermanual

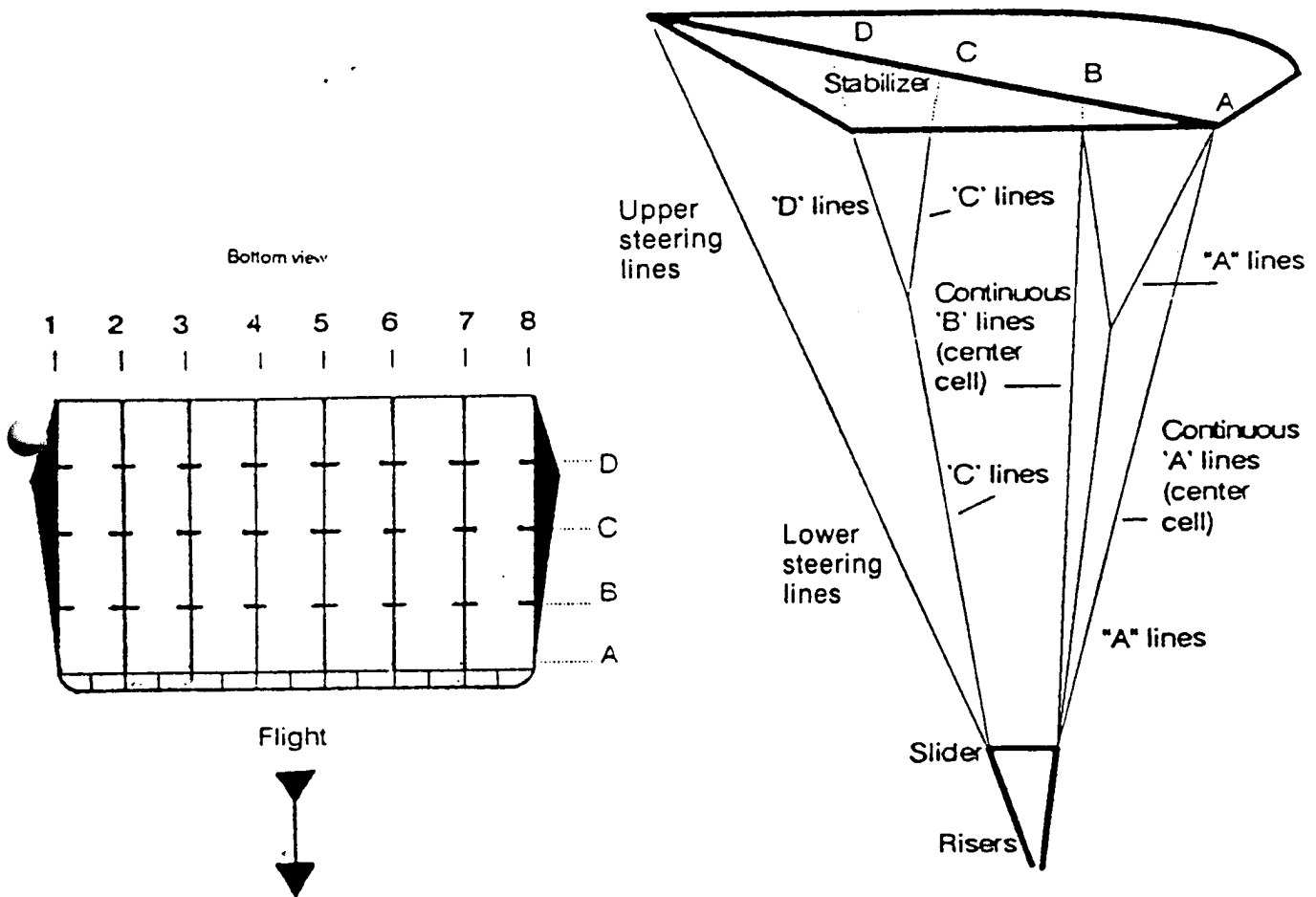
Besonderheiten

## SPECIFICATIONS

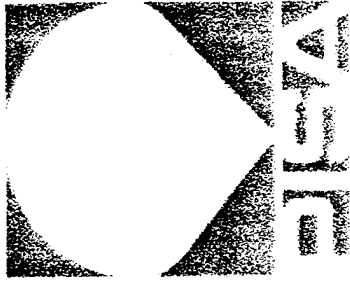
SIZE	AREA	SPAN	CHORD	ASPECT	VOLUME	WEIGHT	MAX SUS	WT
120	118	16.1	7.3	2.2	229	5	132	
150	148	18.0	8.2	2.2	293	5.7	165	
170	178	19.8	9.0	2.2	338	6.1	200	
210	203	21.4	9.5	2.2	366	6.6	223	
250	251	23.5	10.7	2.2	421	8	250	

The **TEMPO** Range of Reserve canopies are a 7 cell design, incorporating 0-3 CFM parachute fabric and Spectra/Microline suspension line. All specifications are in the American system of measurement rather than the metric system.

The **TEMPO** Range of Reserve parachutes are approved under the United States Department of Transport FAA TSO C-23c Category B.



Nomenclature



**TEMPO (FAA T.S.O. Certified)**

(7 Cell Reserve Parachutes)  
0-3 CFM Fabric and Microline

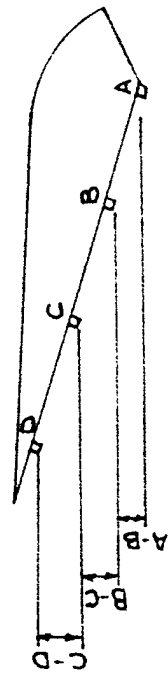
**PARACHUTE INDUSTRIES OF S.A.**

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 Fax : 011 27 330262  
 Tel : 011 27 330333  
 P.O.Box 1616 , Verulam , 4340 , South Africa

SIZE	TRIM A-B	TRIM B-C	TRIM C-D	DEPLOYMENT	FULL FLIGHT SETTING	BASE LINE GUIDE
120	65mm / 2 1/2 "	132mm / 5 1/4 "	191mm / 7 1/2 "	130mm / 5 1/8 " BELOW C	350mm / 13 3/4 " ABOVE D	2474mm - 8' 1 1/2"
150	73mm / 2 7/8 "	148mm / 5 7/8 "	214mm / 8 3/8 "	130mm / 5 1/8 " ABOVE A	400mm / 15 3/4 " ABOVE D	2770mm - 9' 1 1/2"
170	80mm / 3 1/8 "	162mm / 6 3/8 "	234mm / 9 1/4 "	130mm / 5 1/8 " BELOW C	380mm / 15 " ABOVE D	3038mm - 9' 11 5/8"
210	84mm / 3 3/8 "	171mm / 6 3/4 "	247mm / 9 1/4 "	130mm / 5 1/8 " BELOW C	450mm / 17 1/4 " ABOVE D	3204mm - 10' 6 1/8"
250	88mm / 3 1/2 "	178mm / 7 "	270mm / 10 5/8 "	130mm / 5 1/8 " BELOW C	500mm / 19 5/8 " ABOVE D	3528mm - 11' 6 7/8"

Deployment setting means that the toggle is inserted into the deployment brake loop and is touching the steering line guide ring.  
 Full flight setting means that the toggle is touching the steering line guide ring.

The base line is a guide and not an exact measurement due to the inherent stretch and shrinkage of the line.  
 The key factor is the overall relationship between all of the line trims and settings.





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# TEMPO RESERVE CANOPY

## GENERAL INSPECTION - MANUFACTURING STAGE

### A. CUT MATERIALS INSPECTION

1. Inspect cut fabric panels
  - a.) Ensure template conformity (correct size)
  - b.) Ensure correct number and location of template markings
  - c.) Check correct cut dimensions and smoothness of crossports
  - d.) Inspect for flaws / stains in weave
  - e.) Check and mark for bow and bias
  - f.) Count parts and box

### B. PREPARING INSPECTION

1. Inspect all taped leading edges
  - a.) Ensure correct tape has been used
  - b.) Ensure proper seam fold dimension
2. Inspect rib / panel & stabiliser tapes
  - a.) Ensure correct tape has been used
  - b.) Ensure that all tapes are exactly aligned with drill holes

### C. INPROCESS INSPECTION

1. Inspect all top seams and stitch gauges
  - a.) Check for proper folding on load-bearing rib seams
  - b.) Check for proper seam allowance on non-loaded ribs
  - c.) Check that stitching is straight and drill holes properly aligned
  - d.) Check all leading edge junctions for proper rib alignment
2. Inspect all bottom seams and stitch gauges
  - a.) Check for proper folding on load-bearing rib seams
  - b.) Check for proper seam allowance on non-loaded ribs
  - c.) Check that stitching is straight and drill holes properly aligned
  - d.) Check all leading edge junctions for proper alignment
  - e.) Check for attachment of line attachment reinforce tapes
3. Check correct installation and alignment of stabilisers
4. Check for proper installation of slider stops
5. Check correct installation of end ribs
  - a.) Check correct position of Tempo labels on end ribs
6. Over-sews on any exposed seams are unacceptable
7. Check correct installation and type of Warning Label (centre cell)
8. Check cell heights - Non-loaded to non-loaded; loaded to loaded
9. Check tail hem for correct folding and finish
  - a.) Check correct number and placement of steering line loops.

- b.) Check correct placement of centre cell trailing edge tape (rec)
10. Throughout inspection process, ensure no broken or missed stitches and correct thread tension

### D. LEADING EDGE BARTACKS

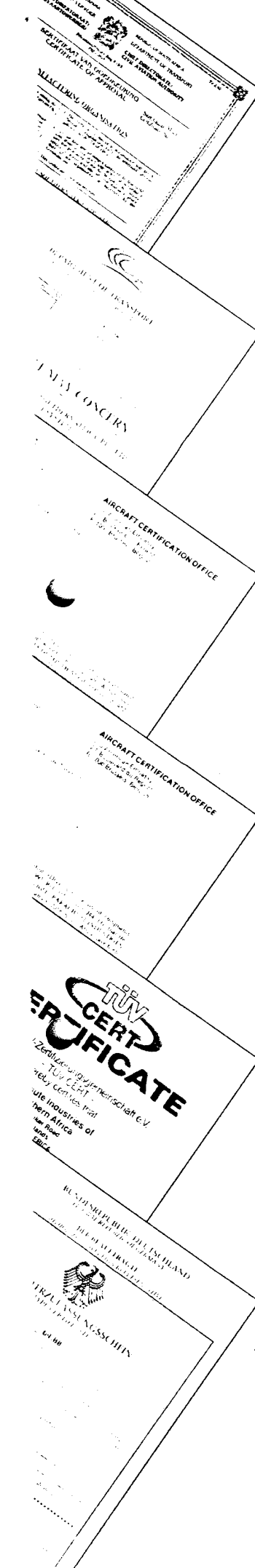
1. Ensure correct position on all line attachment loops
2. Ensure correct position on steering line loops
3. Ensure correct position and number of leading edge bartacks
4. Ensure position and number on stabiliser slider stops

### E. LINE CUTTING / BARTACK INSPECTION

1. Ensure correct specified line types from order form
2. Ensure correct placement of all bartacks at loops
3. Check alignment of marks at finger trapped loops
4. Identify and ascertain finished dimensions against inspection table marks
5. Check for flaws in weave of line
6. Count to ensure all parts are present
  - a.) A-lines
  - b.) Non-cascade A- & B-lines
  - c.) B- & D-lines
  - d.) C-lines
  - e.) Upper control lines
  - f.) Lower control lines

### F. RIGGING / FINAL INSPECTION

1. Ensure proper line type
2. Ensure proper orientation of French link (barrels face inwards, long side down)
3. Check continuity of each line
4. Check all lines to ensure no twists and consistent orientation at links and loops
5. Check non-cascaded A- & B-lines for correct installation
6. Ensure all bartacks present in B & D cascades
7. Ensure all bartacks present in control lines
8. Ensure all bartacks present in stabiliser slider stops
9. Ensure proper orientation and installation of slider
10. Check trims (as per drawing)
11. Check brake setting (as per drawing)
12. Mark full flight (as per drawing)
13. Stamp and verify serial number and date of manufacture on warning label
14. Ensure there are no strains on fabric
15. Open links and carefully fit rigging board
16. Carefully fold canopy and place in a bag
17. Include Packing Manual, Certificate of Conformance and customer copy of order form



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 Reg.No. 69 / 18165 07

## TEMPO RESERVE CANOPY FINAL INSPECTION CHECKLIST

Size		Part Number	
Traveller Card Number		Fabric Type	0 - 3 CFM - Natural
Serial Number		Line Type	725 Dyneema - CB20
Works Order Number		Date	
Cut Number		Customer	

TOP PANELS	BOTTOM PANELS	LOADED RIBS	N/LOADED RIBS	STABILISERS	SLIDER
x 7	x 7	x 8	x 7	x 2	x 1

OPERATION	PROCEDURE	VERIFICATION
Check Links	F1, F2	
Check Lines	F3, F4, F5	
Check Bartacks	F6, F7, F8	
Check Slider	F9	
Check Trims	F10	
Check Brake Settings	F11	
Mark Full Flight	F12	
Stamping	F13	
Canopy	F14	
Fit Rigging Board	F15	
Fold and Bag	F16	
Documentation	F17	

Final Inspection By		Date
Stamping Checked By		