



Ministry
of Defence



DE&S Policy Secretariat

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Defence Equipment & Support
Maple 0a #2043
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Bristol BS34 8JH

Reference: FOI2025/03506

17 February 2025

Dear [REDACTED]

Thank you for your letter of 29 January 2025, requesting the following information:

I am seeking copies of the manufacturing specifications, including amendments, for the;

*Smock Denison 1959 Pattern
Smock Denison Airborne Troops
Smock Camouflage*

All items refer to the Denison Smock 1959 Pattern, issued between 1959 and 1976 and may in fact, be the same document.

...

Could you please provide me with a copy of the;

'Manufacturing Specification for Smock Denison 1959 Pattern, Smock Denison Airborne Troops and Smock Camouflage'.

Any information whatsoever on the Denison Smock 1959 Pattern, it's (GDS) development and information relating to the pattern change every two years. Fabric makers.

To assist, I have sourced the following NSN reference and contract numbers;

*8405-99-973-5161 to 5167
8405-99-973
A/78/CLO/35752/DC69(2)
A/78/CLO/28317/CT5B
A/78/CLO/16162/CT5(a)
A/78/CLO/23306/CT5B*

Your request has been handled in accordance with the Freedom of Information (FOI) Act 2000. A search for the information has now been completed within the Ministry of Defence

(MOD), and I can confirm that information in scope of your request is held. The information identified relating to this vehicle is attached, as follows:

- Annex A – Specification UK/ISC/3181B Smock, Camouflage dated 13 August 1968
- Annex B – Specification UK/SC/4440 Smock, Parachutists dated 30 March 1998

I can confirm that no other information is held.

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Under Section 16 (Advice and Assistance) of the FOI Act, I can advise you that historically the MOD held a physical master pattern, Pattern Number 13071B, but that this pattern was transferred to the National Army Museum approximately 30 years ago. Due to the age of the information you have requested any other information originally held will have been reviewed in accordance with the Public Records Act 1958 and either destroyed or passed to the National Archives for retention. You may wish to consider visiting the National Archives website, which has a search function allowing for information held within the archives to be identified and can be found via their website here: <https://www.nationalarchives.gov.uk/>.

If you have any queries regarding the content of this letter, please contact this office in the first instance. If you wish to complain about the handling of your request, or the content of this response, you can request an independent internal review by contacting the Information Rights Compliance team, Ground Floor, MOD Main Building, Whitehall, SW1A 2HB (e-mail CIO-FOI-IR@mod.gov.uk). Please note that any request for an internal review should be made within 40 working days of the date of this response.

If you remain dissatisfied following an internal review, you may raise your complaint directly to the Information Commissioner under the provisions of Section 50 of the Freedom of Information Act. Please note that the Information Commissioner will not normally investigate your case until the MOD internal review process has been completed. The Information Commissioner can be contacted at: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF. Further details of the role and powers of the Information Commissioner can be found on the Commissioner's website at <https://ico.org.uk/>.

Yours sincerely,

DE&S Policy Secretariat

SPECIFICATION. No UK/ ISC/3181B

S/S by UK/SC/4440A



MINISTRY OF DEFENCE

SMOCK, CAMOUFLAGE

PREPARED BY
STORES & CLOTHING RESEARCH
& DEVELOPMENT ESTABLISHMENT

ISSUED BY
QUALITY ASSURANCE DIRECTORATE
(STORES & CLOTHING)

NV/528/05

Number: UK/15G/3181B

Date of publication: 13th August, 1968.

Previous issue: 20th May, 1965

Specification for:
SNOCK, CAMOUFLAGE

NATO Stock Number

8405-99-973-5161-5169

Pattern Number

13071B

Prepared by:
STORES & CLOTHING RESEARCH & DEVELOPMENT ESTABLISHMENT,
Flagstaff Road,
Colchester,
Essex.

This specification has 13 pages.

1. RELATED SPECIFICATIONS AND DOCUMENTS

Reference is made in this specification to:

BS 2667-86, 3661 (including BS 1006)	Methods for the determination of the colour fastness of textiles
BS 2726-29	Marking inks
BS 3084	Metallic slide fasteners
BS 3670	Schedule of stitches, seams and stitchings
DEF-1007	Fabrics, cotton, plain weave
DEF-1034	Threads, cotton, sewing
DEF-1213	Threads, linen, sewing and miscellaneous
U/1095	Drill, No. 4, camouflage, WF, 28in
UK/ISC/2790	Cambric, white, No. 2, FS
UK/ISC/3224	Cloth, flannel, wool and nylon and cotton, khaki, SR

Reference in this specification to a British Standard or to any other specification or document means, in any tender or contract, the edition current at the date of such tender or contract.

DEF specifications are obtainable from HM Stationery Office and UK/ISC specifications from Ministry of Defence, Directorate of Inspection of Stores and Clothing, Diocot, Berks.

2. STANDARD PATTERNS

A Standard Pattern, held by the Purchasing or Inspection Authority, shall constitute the standard for any material, properties or design features not fully defined in this specification.

3. MATERIALS

a. The smock shall be made of the following materials:		<u>MSB</u>
Body of garment, lining, stays and all fabric fittings except collar lining and sleeve cuffs	Drill No. 4, camouflaged, WR, (Pattern No. 12140, 28in Specification U/1095).	1203
Collar lining	Cloth, flannel, wool and nylon and cotton khaki SR (Pattern No. 8026A (36) or (34) Specification UK/ISC/3224).	
Cuffs, knitted, wool	See Appendix.	
Fastener for front opening	Fasteners, slide, green, heavy, open and auto-locking, non-glint Sizes: 1 and 2 31in 3 and 4 33in 5 and 6 35in 7 and 8 37in (Pattern No. S/4095 to guide, and to comply with BS 3084).	
Snap fasteners	Fasteners, snap, brass WF, 13ps	

	printed drab.
	and
	Fasteners, snap, brass, NP, bottoms as on Standard Pattern.
Buttons for shoulder straps	Buttons, urea formaldehyde resin, trouser, 4 hole, 27 ligne, drab.
Size label	Cambric, white, No. 2, FS (Pattern No. 17470, 36in, Specification UK/ISC/2790) or an approved alternative.
Marking ink for label	To BS 2726.
b. The following sewing threads shall be used:	
Gimp for buttonholes	Thread, cotton, gimp, glace, drab, 16/9 (Pattern No. T1098, Specification DEF-1034).
For buttonholes	Thread, cotton, sewing, machine, mercerised, drab, 36/3 (Pattern No. T1002, Specification DEF-1034).
For all other purposes	Thread, linen, sewing, machine, dark drab, 50/3 (Pattern No. T1348, Specification DEF-1213).

4. MANUFACTURE

a. Design

The smock shall be cut with an opening the full length of the front which shall be closed by means of a slide fastener. The back, with a centre seam, shall have an underfork ("crutch") strap attached at the bottom. The neck of the smock shall have a lined stand collar. The two-piece pivot sleeves shall be fitted with knitted cuffs (See Appendix) and the shoulders shall have shoulder straps. The smock shall have a side panel extending from waist level to the bottom of the smock. Each forepart shall have an outside breast, and a hip patch pocket with flap, and an inside swing pocket with vertical opening. The upper and lower portions of the back, front shoulder and top of topside sleeve shall be lined. (See Diagram 'A' - general arrangement).

b. Stays

(1) The top of the hip pocket and flap shall have a stay of Drill, No. 4, camouflaged, approximately 2½in deep sewn in with the side seam and extending ½in beyond the front of the pocket on the inside of the smock. The raw edges of the stay shall be finished with stitching type EPa-1 of BS 3870 with the interturn ½in wide.

- (2) The snap fasteners on the front, back, bottom edge and crutch strap shall have stays of drill.
- (3) The eyelet holes in the underarm of the sleeves shall have stays of drill.

c. Foreparts

- (1) The shoulder of each forepart shall be lined full width with drill, measuring $8\frac{1}{2}$ in deep when measured from the front end of the collar seam. The bottom edge of the lining shall be finished with seam type LSd-1 of BS 3870. The remaining edges shall be sewn in with the stitching of the front opening, shoulder, collar and sleevehead seams respectively.
- (2) Each forepart shall have a patch breast and hip pocket with flap. The dimensions of the patch pockets and flaps shall be as indicated in the schedule.
- (3) The pockets and flaps shall be made of two thicknesses of drill and they shall be positioned on the foreparts as indicated on Diagram 'B'.
- (4) The lining in the front shoulders shall form a stay for the top of the breast patch pockets and flaps.
- (5) Each forepart shall have an inside swing pocket with a vertical opening 6in long. The front of the pocket shall be positioned 1in behind and parallel with the front edge of the forepart. The top and bottom ends of the opening shall be securely tacked. The top back shall be $5\frac{1}{2}$ in below the collar seam and the bottom of the pocket shall extend not less than 4in below the bottom tack. The pocket shall measure not less than 6in wide. The top edge of the pocket shall be stitched through the forepart.
- (6) A stay of drill, 6in long and $2\frac{1}{2}$ in wide, shall be sewn on the front of each forepart with the lower end of the stay $2\frac{1}{2}$ in from the bottom edge of the forepart. The front edge of the stay shall be sewn in with the front edge of the forepart; the remaining edges shall be finished with seam type LSd-1 of BS 3870.
- (7) Each stay shall have three female portions of snap fasteners each fitted with a dome, on the outside of the smock. The fasteners shall be positioned vertically with the top, middle and bottom fasteners 8in, $5\frac{1}{2}$ in and $3\frac{1}{2}$ in respectively from the bottom edge of the smock, and horizontally so that each pair of studs is 4in apart when the fronts are closed by means of the sliding fastener.

d. Back

- (1) The back, cut with a centre seam, shall be lined with drill. The lining at the top of the back shall extend 10in below the collar seam and have the bottom finished with seam type LSd-1 of BS 3870.

The lower portion of the back shall be lined with drill and measure $1\frac{1}{2}$ in deep from the bottom of the smock when finished. The top edge of the lining shall be turned in and stitched through the back.

- (2) Two female portions of snap fasteners shall be fitted in the lower portion of the back with the dome on the inside of the back. The fasteners shall be stayed with drill and be positioned $10\frac{1}{2}$ in from the bottom edge and 2in on either side of the centre back seam.
- (3) A crutch strap, made from two thicknesses of drill, shall be positioned centrally at the bottom of the back. The strap shall be sewn in with the turn-up when stitching round the bottom. An additional row of stitching shall be made parallel to the turn-up stitching through the strap and turn up. The strap shall be shaped as indicated on the Standard Pattern, and measure $14\frac{1}{2}$ in long, $7\frac{1}{2}$ in wide at the widest point, and $3\frac{1}{2}$ in wide where stitched to the smock. The corners at the free end shall be rounded, and have two male portions of snap fasteners spaced 4in apart with each fastener equidistant from the centre of the strap, and $\frac{1}{2}$ in from the edge. (See Diagram 'C').

e. Collar

A stand collar, made from drill and part lined with two thicknesses of Cloth, Flannel, Wool and Nylon and Cotton shall be sewn to the neck of the garment, the drill shall be turned over the top edges of the flannel to form a facing $\frac{1}{2}$ in deep, and the double edge of the flannel extend $\frac{1}{2}$ in below the neck seam. A row of stitching shall then be made through the two thicknesses of flannel and the neck of the smock at the collar seam.

f. Sleeves

- (1) The crown of the two-piece, set-in style pivot sleeve shall be lined with drill, 6in deep when measured from the highest point of the crown. The bottom edge of the lining shall be finished with seam type LSd-1 of BS 3070, and the raw edges at the sides and top stitched in with the forearm, hindarm and armhole seams respectively.
- (2) Six worked eyelet-holes shall be made in the underarm. A stay of drill shall be provided for the eyelet holes. The eyelet holes shall be arranged in pairs so that three eyelet holes are on each side of the underarm seam, the holes in each pair being 1 $\frac{1}{2}$ in apart. The bottom pair of eyelet holes shall be positioned 7in from the seam at the bottom of the pivot. The remaining pairs of holes shall be positioned $8\frac{1}{2}$ in and $9\frac{1}{2}$ in respectively from the

seam at the bottom of the pivot.

g. Upturn

- (1) The upturn at the bottom of the smock shall measure 1in deep when finished with stitching type Efb-1 of BS 3870.
- (2) The male portion of the snap fastener shall be positioned on the outside of the upturn of each forepart 5½in from the side seam, and ½in from the bottom edge of the smock.
- (3) A tab, made from two thicknesses of drill and fitted with the female portion of a snap fastener at the rounded end, shall be stitched at the bottom of each side of the smock and positioned on the side panel 1in behind the forepart side seam.

h. Shoulder straps

- (1) The shoulder straps, sewn in with the sleeve seam, shall be made from two thicknesses of drill. The free end of the strap shall be rounded and have a buttonhole worked centrally with the eye of the buttonhole ½in from the end. The straps shall measure 2½in wide at the shoulder end, and taper to 2in wide at the level of the eye of the buttonhole. The straps shall terminate ¾in from the collar seam and be fitted centrally over the shoulder seam.
- (2) A trouser button shall be sewn to the shoulder to correspond with the buttonhole in the shoulder strap. The strap shall lie flat on the shoulder when buttoned.

j. Front opening

- (1) The front opening shall have an open-end slide fastener of the size specified in the schedule. An underlap, made of two thicknesses of drill 2in wide, shall be sewn on the right-hand side of the front opening.
- (2) The slider of the fastener shall have a tag made from two thicknesses of drill 3in long, threaded through the puller. The tag shall be machine stitched with a row at the top and bottom to prevent it from becoming detached.

k. Stitching

- (1) Machine stitching shall be stitch type 301 of BS 3870 with at least eight, but not more than ten, stitches to the inch.
- (2) Buttonholes shall be worked with at least 24 stitches to the inch and may be bar-tacked or tapered finish.
- (3) Buttons may be sewn on by lockstitch machine with at least nine stitches of thread through each hole.
- (4) All seams shall be seam type LSc-2 of BS 3870 if sewn on a single needle machine or LSc-2 of BS 3870 if sewn on a twin needle machine.

Pockets, flaps, shoulder straps, crutch strap and knitted cuffs shall have two rows of stitching spaced $\frac{1}{2}$ in apart. The collar seam shall be stitched and raised, with a single row $\frac{1}{4}$ in from the edge.

1. General

- (1) The sewing threads used in the manufacture of the smock shall not be treated with oil or any oily substance.
- (2) Soap shall not be used.
- (3) The smock shall be thoroughly cleaned of all ends of sewing thread and be delivered in a clean condition.

5. MEASUREMENTS

Stock size smocks shall conform to the appropriate measurements shown in the schedule. Special measure garments shall be made to the wearer's measurements which will be supplied to the contractor. The schedule shall then be used a. to indicate the allowances at breast over the measurement of the wearer and b. as a guide to govern measurements not shown on the special measure form.

6. MARKING

a. Each garment shall have a cotton size label sewn on the inside of the smock under the right hip pocket. The edges of the labels shall be turned in.

b. The size labels shall carry the following information clearly marked, in ink, and arranged as shown below:

For stock sizes, the name of the garment, NATO stock number, size, manufacturer's name or initials and the contract number. The size number shall be $\frac{1}{2}$ in high.

For special measures, the name of the garment, NATO stock number, the name, number and measurements of the wearer, the manufacturer's name or initials and the contract number.

Specimen labels

Stock sizes

Special measures

Smock, Camouflage 8405-99-973-5164 Size 4 Smith & Co. 0/000/0000 Name: No:
--

Smock, Camouflage 8405-99-973-5169 T. Atkins 6789 Height Breast Smith & Co. 0/000/0000
--

7. PACKAGING

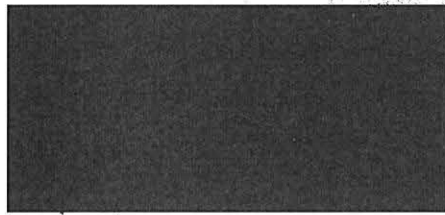
Packaging (preservation, identification and packing) shall be in accordance with the terms of the contract.

8. PAPER PATTERNS

Paper Patterns, which are intended for guidance only, may be obtained on application to the:

Ministry of Defence,
Stores & Clothing Research & Development Establishment,
Flagstaff Road,
Colchester,
Essex.

The patterns are not returnable and a charge will be made.



Director, Stores & Clothing
Research & Development Establishment

Colchester

/MMK

SCHEDULE
SMOCK, CAMOUFLAGE

NATO. Stock Nos. 8405- 99- 973-	Size No.	Measurements of man		Measurements of garment										
		Height ft in	Breast	Breast 6in up from bottom of sleeve pivot *	Around bottom	Length from collar seam		Full width of back at sleeve seams	Sleeve		Collar length at gorge seam when closed	Depth of collar	Length of slide fastener	
						Back	Front		Ø length of hind- arm seam	Width around				
										Elbow				Cuff
5161	1	5 3	34-36	60	60			18½		20	10½	19½	3½	31
5162	2	to 5 5	37-39	63	63	31	30	20	22½	20½	11½	20½		
5163	3	5 6	36-38	62	62			19½		20½	11	20		33
5164	4	to 5 8	39-41	65	65	33	32	21	24	21½	11½	20½		
5165	5	5 9	37-39	63	63			20		20½	11½	20½		35
5166	6	to 5 11	40-42	66	66	35	34	21½	25½	21½	12	21		
5167	7	6 0	39-41	65	65			21		21½	11½	20½		37
5168	8	to 6 2	42-44	68	68	37	36	22½	27	22	12½	21½		
5169	For special measure garments													

* Including sleeve

Ø Excluding knitted cuff

Pockets: Width 7½in
Depth (including flap) 8½in

APPENDIX
CUFFS, KNITTED, WOOL
 for
SMOCK, CAMOUFLAGE

The cuff shall be knitted from two-fold worsted yarn, and it shall be to the shade and quality of that incorporated in the Standard Pattern of the smock. The cuff shall be a double layer of fabric, achieved by folding in the middle of its length, and it may be either flat knitted with an overlock side seam or circular knitted. The 'wrist section', when folded, shall be a 2in length of 1 x 1 rib and the 'sleeve section' shall be a 2in length of half cardigan construction. The ends of the sleeve sections shall be finished with an overlock seam.

The width of the cuff, when in a relaxed condition, shall be 3in at the wrist and 6in at the sleeve, and it shall be capable of being stretched in width by a further 3in in both sections.

The minimum weight of ten pairs of the cuffs shall be 15ozs.

Colour fastness

The colour fastness of the cuffs shall be not lower than the ratings shown in the following table:

Agency	Ratings for change of shade	Ratings for staining	Method of Test
Light	5-6	-	SS 1006 (Xenon lamp)
Washing	3	4	BS 2684

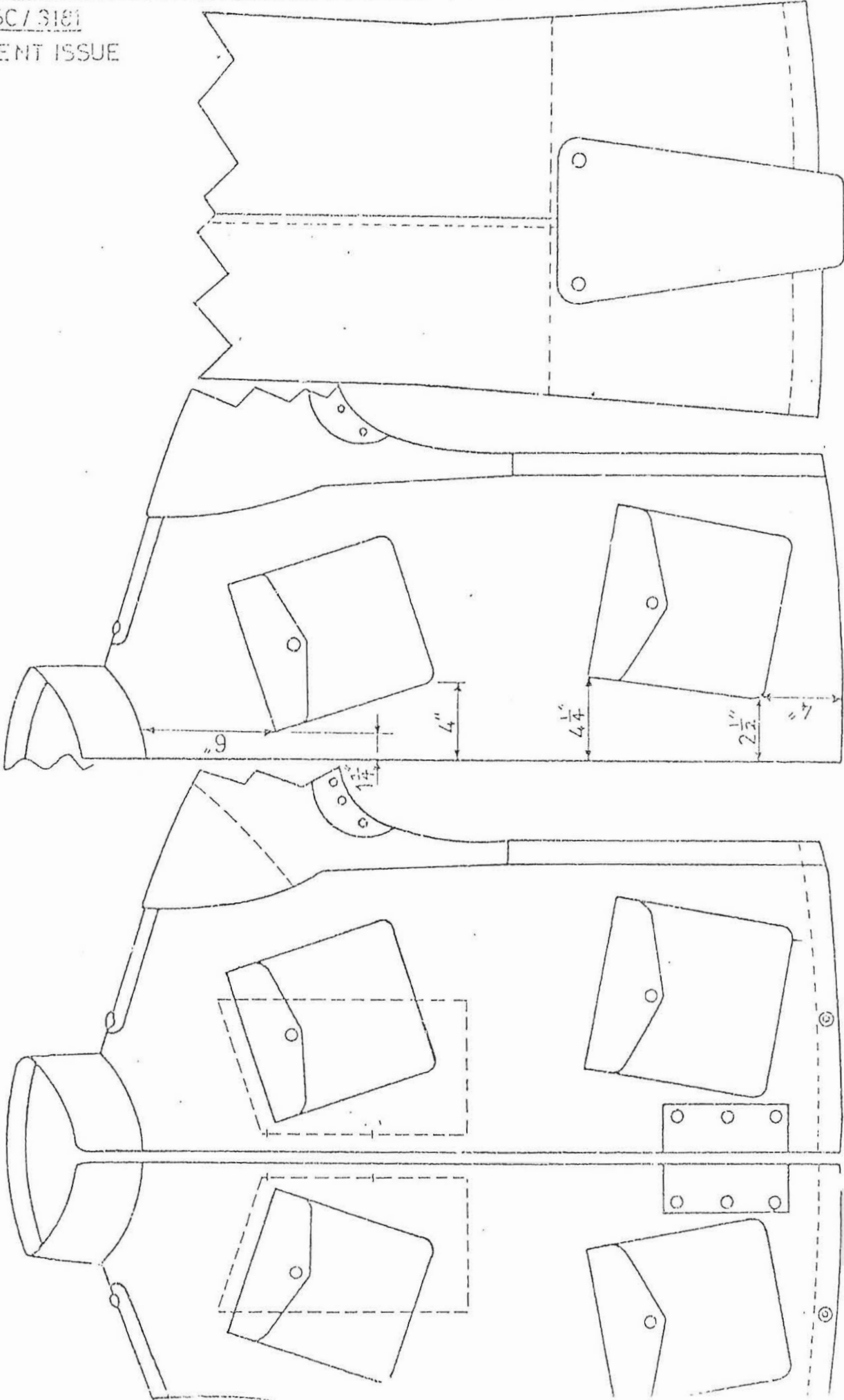


DIAGRAM 'C'

DIAGRAM 'B'

DIAGRAM 'A'

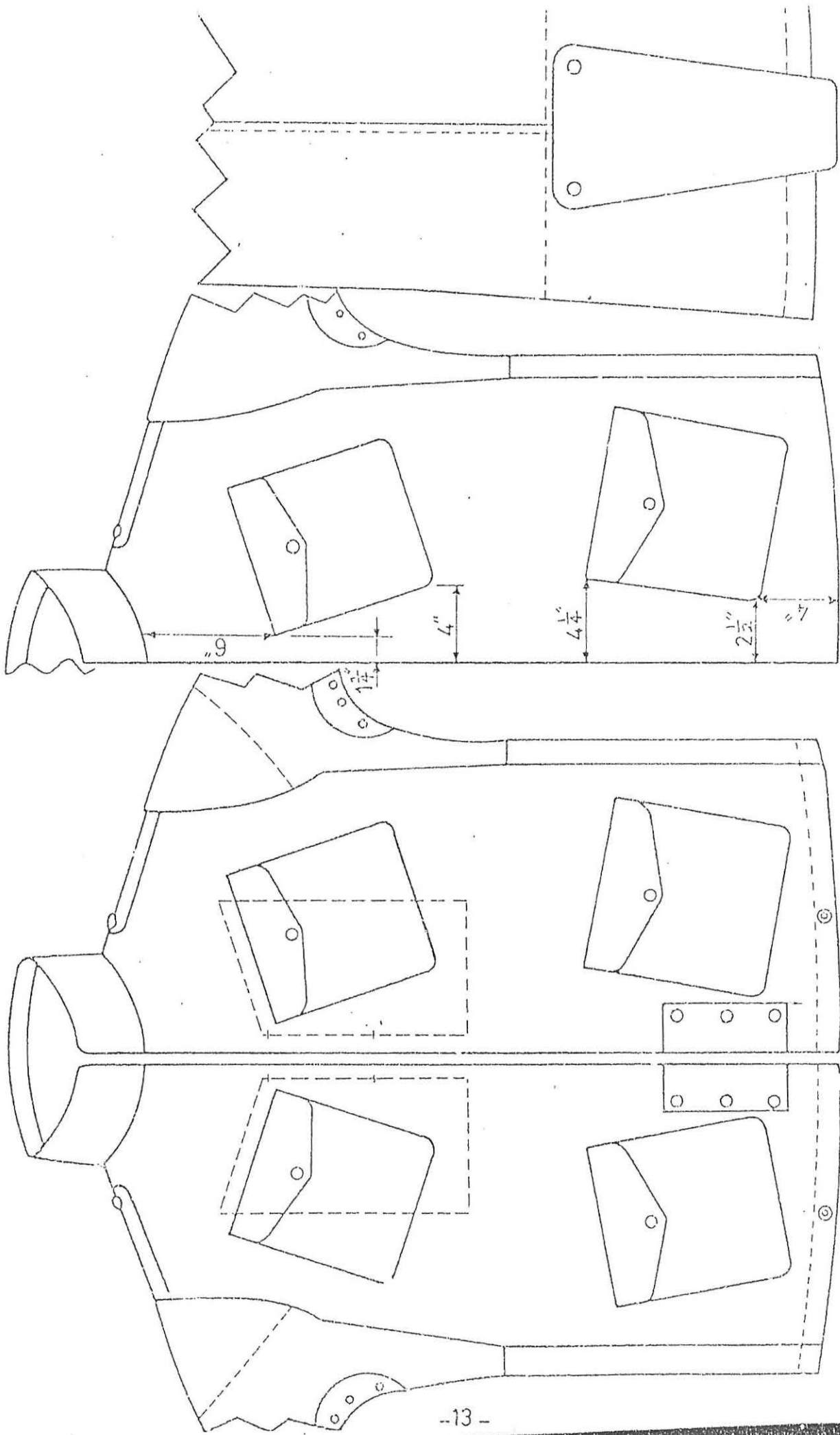


DIAGRAM 'C'

DIAGRAM 'B'

DIAGRAM 'A'

UK/SC/4440 Issue 3

Specification for
SMOCK, PARACHUTIST'S



Defence Logistics Organisation

Defence Clothing & Textiles

Integrated Project Team

PROPERTY OF :-
DEFENCE CLOTHING & TEXTILE
INTEGRATED PROJECT TEAM
DLO Caversfield
Skimmingdish Lane
Bicester
Oxon
OX27 8TS

D/DCTA/P1097 (ST)
D/DCTA/528/09 (QPS)

Date of Approval: 30 March 1998
Previous Issue: 03 May 1978

NATO Stock Numbers

Pattern Number

8415-99-132-4008 to 4021

21119A

IPR STATEMENT

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This Specification has 13 Pages

1. SCOPE

A smock made in disruptively patterned woodland cotton and polyester drill for use by army parachutists in temperate areas.

2. RELATED SPECIFICATIONS AND DOCUMENTS

2.1 Reference is made in this specification to:

BS EN 23758	Textiles. Care labelling code using symbols
BS EN 26330	Textiles. Domestic washing and drying procedures for textile testing
BS EN 20105/ISO 105(BS 1006)	Textiles. Tests for colour fastness
BS 3870	Stitches and seams
BS 5742	Specification for textile labels requiring to be washed and/or dry cleaned
BS 6157	Specification for industrial sewing threads made wholly or partly from synthetic fibres
DEF STAN 83-48	Cloth, plain weave cotton
UK/SC/4559	Slide fasteners
UK/SC/4782	Cord, braided, nylon
UK/SC/5121	Buttons, sewing various
UK/SC/5225	Cloth, satin drill, cotton and polyester, DPM, FS, SF, WR

2.2 Reference in this specification to a British Standard or any other specification or document means, in any tender or contract, the edition current at the date of such tender or contract, unless otherwise stated.

3. PATTERNS

3.1 Standard Pattern

A Standard Pattern garment, which is to be obtained the Technical Information Office, is to provide the criteria for all materials, components and manufacturing features not fully defined in this specification.

3.2 Paper Patterns

Paper patterns, which are for guidance only, may be obtained from the Technical Information Office. Patterns are non returnable.

4. MATERIALS

4.1 The garment is to be made of the following materials:

Body of garment, collar, crotch, shoulder straps, breast, hip and sleeve pockets	Cloth, satin drill, cotton and polyester, DPM, FS, SF, WR, Pattern No.8806A to Specification UK/SC/5225 NATO Stock No.8305-99-665-0279
Back, shoulder and sleeve lining, skirt and inside breast pockets, waist channel and pocket stays	Cloth, poplin, cotton, olive, MERC, WR, FS Pattern No.8049A to DEF STAN 83-48 NATO Stock No.8305-99-135-7285
Drawcords for waist channels, upturn, slide fastener puller and hanger	Cord, braided, nylon, green, Pattern No.9483C to Specification UK/SC/4782 NATO Stock No.4420-99-130-3131
Interlining for right forepart facing	Interlining, cotton, plain weave, white cross-linked finished weight 210g/m ² , with approximately 19 ends and 16 picks per cm. Shrinkage not to exceed 1 per cent in each direction of warp and weft when tested to BS EN 26630 Process 2A, line dried
Fastener for front opening	Fastener slide, heavy weight, brass, non-glint, colour to match the shade of the Standard Pattern, open ended, auto locking slider, top stops, 16mm wide stringer with a sealed end to retain a thin edge and prevent fraying. To comply in all other respects with the requirements of Specification UK/SC/4559. Length to be in accordance with the size schedule
Snap fastener	Fasteners, snap, matt finished, as on the Standard Pattern, or an alternative approved by the DCT IPT.
Cuffs, knitted wool	To comply with Annex A
Buttons	Buttons, sewing, 4 hole, 30 ligne (19mm), green, Patten No.S/2438 to Specification UK/SC/5121 NATO Stock No.8315-99-973-0862
Identification/care instruction label	Fabric, marking and attachment to comply with the requirements of BS 5742 Paragraph 3

4.2 The following sewing threads, or alternatives approved by the DCT IPT, are to be used.

For sewing buttonholes	Thread, polyamide, nylon 6.6 continuous filament, to BS 6157, olive, Metric Ticket No.60
For all other purposes	Thread, corespun, to Table 3 of BS 6157, olive Metric Ticket No.12 for gimp for buttonholes Metric Ticket No.36 for sewing on buttons Metric Ticket No.180 for overedging Metric Ticket No.50 for all other sewing

5. MANUFACTURE

5.1 Design

Single breasted smock with slide fastener closure, stand collar and shoulder straps, pivot style sleeves fitted with knitted cuffs. Two outside breast and hip bellows patch pockets with storm flaps. A bellow type patch pocket with single pointed flap on the right sleeve. Two inside breast pockets. The upper portions of the back, sleeves and shoulders are to be lined. A skirt pocket at the lower part of the back. Drawcords at the waist and bottom of the smock. A crotch strap is to be attached to the bottom of the back.

5.2 Stays and interlining

5.2.1 A stay of poplin, cotton, extending from the front edge to the side seams is to be provided for each outside hip pocket and flap. The stays are to be 5cm wide having the raw edges overlocked.

5.2.2 A stay of body material is to be provided for all snap fasteners.

5.2.3 The right forepart facing is to be provided with an interlining 6cm wide.

5.3 Foreparts

5.3.1 The shoulder of each forepart is to be lined full width with poplin cotton, measuring 22cm deep when measured from the front end of the collar seam. The bottom edge of the lining is to be finished with seam type 6.02.01 of BS 3870. The remaining edges are to be sewn in with the stitching of the front opening, shoulder, collar and sleevehead seams respectively.

5.3.2 A stay of body material, 15cm long and 5cm wide, is to be sewn on the inside of each forepart with the lower end of the stay 7cm from the bottom edge of the forepart. The front edge of the stay is to be sewn in with the front edge of the forepart; the remaining edges are to be finished with seam type 6.02.01 of BS 3870.

5.3.3 Each stay is to have three female portions of snap fasteners each fitted with a dome, on the outside of the smock. The fasteners are to be positioned vertically with the top, middle and bottom fasteners 20.5cm, 15.5cm and 10.5cm respectively from the bottom edge of the smock, and horizontally so that each pair of studs are 9cm apart when the fronts are closed by means of the slide fastener.

5.4 Front opening

5.4.1 The front edge of the right forepart is to be provided with a sewn-on facing 6cm wide, commencing from the top of the stand collar and terminating 2cm from the bottom of the smock.

5.4.2 One half of a slide fastener is to be securely sewn in with the front edge of the right forepart and the facing, with the teeth of the fastener level with the front edge of the smock. The remaining half of the slide fastener is to be securely sewn to the inside of the left forepart with the teeth of the fastener level with the front edge. The slide fastener is to commence 3cm below the top edge of the stand collar and extend for the length stated in the Schedule. The slide fastener is to be securely sewn with 2 rows of machine stitching 0.6cm apart. A tag of nylon braid 5cm long, is to be securely sewn to the puller of the slide fastener.

5.5 Pockets

- 5.5.1 A bellows patch breast pocket with flap, 18cm wide and 18cm deep including flap, is to be fitted to each forepart positioned as on the Standard Pattern. Each patch is to have a bellows at the bottom and the sides 4cm wide. The flap, shaped as on the Standard Pattern, is to be 8cm deep at the centre and 4cm at the sides. The top of the patch is to have an inturn 9cm deep having the raw edge overlocked and secured to the patch by a row of machine stitching 4cm above the overlocked edge. A second row of machine stitching is to be made through the inturn 2.5cm below the top edge. The top end of the patch is to extend 2.5cm above the sewing-on edge of the flap to form a fold 2.5cm deep. The sewing is to be made immediately alongside the flap stitching.
- 5.5.2 A bellows patch hip pocket with flap, 21.5cm wide and 24cm deep including flap, is to be fitted to each forepart, positioned as on the Standard Pattern. Each patch is to have a bellows at the bottom and the sides 4cm wide. The flap, shaped as on the Standard Pattern, is to be 8cm deep at the centre and 5cm at the sides. The pocket is to be finished in an identical manner to that used on the breast pockets.
- 5.5.3 The pockets are to be attached to the smock using seam type 6.02.01 of BS 3870.
- 5.5.4 A female portion of a snap fastener is to be clenched through each breast and hip pocket flap, positioned centrally, with the centre of the fastener 2cm from the point. A male portion of a snap fastener, positioned to correspond with the female snap fastener, is to be securely clenched through the pocket and inturn.
- 5.5.5 Each forepart is to have an inside swing pocket with a vertical opening 15cm long. The front of the pocket on the right forepart is to be positioned parallel with the inner edge of the forepart facing. The front of the pocket on the left forepart is to be positioned 2.5cm behind the front edge of the smock. The top and bottom ends of the opening are to be securely tacked. The top of the pocket is to be 14cm below the collar seam, measured at the front edge and the bottom of the pocket is to extend not less than 10cm below the bottom tack. The pocket is to measure not less than 15cm wide. The top edge of the pocket is to be stitched through the forepart.

5.6 Back

The inside of the top of the whole back is to be lined with poplin cotton. The lining is to extend 26cm below the collar seam and have the bottom finished with seam type 6.02.01 of BS 3870. The remaining edges are to be sewn in with the stitching of the collar, shoulder and sleeve seams respectively.

5.7 Inside skirt pocket

- 5.7.1 An inside skirt pocket is to be provided inside the smock, positioned at the bottom of the back, extending from side seam to side seam with the pocket opening 30cm from the bottom of the smock. The top of the pocket is to be finished with an inturn 3cm deep using stitch type 6.03.04 of BS 3870.
- 5.7.2 Two vertical row of machine stitching 15cm apart, positioned centrally, are to be made through the pocket and the back of the smock, extending the full depth of the pocket.

- 5.7.3 Two female portions of snap fasteners are to be fitted between the two rows of machine stitching with the dome on the inside of the back. The fasteners are to be positioned 2.5cm below the top edge of the pocket and 9cm apart.
- 5.8 Sleeves
- 5.8.1 The crown of the two-piece, set-in pivot style sleeve is to be lined with poplin cotton, 17cm deep when measured from the highest point of the crown. The bottom edge of the lining is to be finished with seam type 6.02.01 of BS 3870, and the raw edges at the sides and top, stitched in with the forearm, hindarm and armhole seams respectively.
- 5.8.2 A patch pocket with a flap 10cm wide and 18cm deep including flap, is to be fitted to the left sleeve, positioned as on the Standard Pattern. The flap, 6cm deep at the centre and 4cm at the sides, is to be sewn to the sleeve with the top of the flap positioned 2.5cm above the top of the patch pocket. The top of the patch is to have an inturn 2.5cm deep finished using stitch type 6.03.04 of BS 3870. A pen division is to be formed by a row of machine stitching 2.5cm from the front edge of the patch pocket. The patch is to be attached to the sleeve using seam type 6.02.01 of BS 3870. A buttonhole, 2.5cm long is to be worked in the flap, positioned centrally, with the eye of the buttonhole 1.2cm from the point. A button, positioned to correspond with the eye of the buttonhole, is to be sewn to the pocket.
- 5.8.3 A bellows patch pocket with single pointed flap snap fastener, fastening is to be fitted to the top of the right sleeve hindarm, positioned as on the Standard Pattern. Finished dimensions: flap 9cm deep at the centre and 6.5cm at the sides, width 9cm, bellows 3cm deep, patch 8cm wide, total depth from top of flap 13.5cm.
- 5.8.4 A female portion of a snap fastener is to be clenched through the flap of the left pocket, positioned centrally, with the centre of the fastener 2cm from the point. A male portion of a snap fastener, positioned to correspond with the female snap fastener, through the pocket and inturn.
- 5.8.5 The bottom of the sleeves are to be fitted with knitted wool cuffs, securely sewn to the sleeve with two rows of machine stitching.
- 5.9 Waist channel
- 5.9.1 Three strips of poplin cotton to form a channel 2.5cm wide are to be provided inside the smock, one on each forepart and one across the back, positioned as stated in the Schedule. The outer edges of the channel are to be securely edge stitched to the smock.
- 5.9.2 The channels on the foreparts are to extend from the inner edge of the facing to the side seams, having the front ends of the channel sewn in with the facing seam. The channel on the back is to extend from side seam to side seam and be in alignment with the channels on the foreparts.
- 5.9.3 The channels are to be provided with drawcords fitted for waist adjustment. The drawcords are to extend at least 15cm from each open end of the channels on the foreparts and the back. The protruding ends of the drawcords are to have a knot tied in the ends. The concealed ends of the drawcords in the forepart channels are to be sewn in with the facing seam. The drawcords in the back of the channel is to be tacked centrally through the channel and the back of the smock.

5.10. Upturn

5.10.1 The bottom of the smock is to be fitted with an upturn 3cm deep, using stitch type 6.03.04 of BS 3870. The upturn is to form a channel for a drawcord.

5.10.2 An eyelet hole is to be worked centrally at each end of the upturn positioned 6cm from the front edge. A drawcord is to be threaded through the eyelets in the upturn. The ends are to be knotted to prevent the drawcord receding into the channel and protrude 15cm beyond each eyelet hole when the garment is fully extended. The drawcord is to be secured by a vertical row of machine stitching, made through the upturn at the centre back.

5.11 Shoulder straps

5.11.1 The shoulder straps of two thicknesses of self material, are to be 6cm wide at the sleevehead seam and taper to 4.5cm at the level of the eye of the buttonhole and be finished with a rounded end.

5.11.2 A buttonhole, 2.5cm long, is to be worked in the shoulder strap with the eye 1.5cm from the rounded end, to correspond with a button sewn on the shoulder seam.

5.11.3 The shoulder straps are to be positioned centrally and lie flat on the shoulders when buttoned, with the rounded end terminating 2cm from the collar seam.

5.12 Crotch strap

5.12.1 A crotch strap, of two thicknesses of body material shaped as on the Standard Pattern, is to be fitted centrally at the bottom of the back and extend 31cm below the bottom of the garment.

5.12.2 The strap is to be sewn in with the upturn, turned down and secured by a row of stitching through the strap and bottom edge of the back.

5.12.3 Two male portions of a snap fastener are to be clenched in the free end of the strap. The fasteners are to be positioned 9cm apart as on the Standard Pattern.

5.13 Collar

5.13.1 A stand collar 9cm deep, formed from two layers of body material is to be sewn to the neck of the smock.

5.13.2 Three buttons are to be securely sewn to the outside of the collar, 1cm from the collar seam, one at each shoulder seam and the remaining one positioned equidistant between those two.

5.14 Hanger

A hanger is to be securely sewn to the back neck of the smock through the collar, having an effective length of 6cm between tacks.

5.15 Seams and stitching to BS 3870

5.15.1 Single machine stitching is to be stitch type 301 with at least eight but not more than ten stitches per 2cm.

5.15.2 The front edge of the facing on the smock and the edges of the crotch strap, shoulder straps, collar and pocket flaps are to be stitched 0.6cm from the edge. Top stitching is to be regular and unbroken.

- 5.15.3 Side, sleeve and shoulder seams are to be sewn using seam type 1.01.01 with the raw edges overedge stitched together.
- 5.15.4 Machine buttonholes are to have at least twenty two stitches per 2cm and be either bar tacked or taper barred.
- 5.15.5 All raw edges are to be finished using stitch type 502, 503, 504 or 505.
- 5.15.6 Buttons are to be securely sewn with at least sixteen stitches through each hole.

5.16 General

- 5.16.1 The sewing threads used may be treated with a stain free lubricant.
- 5.16.2 The garments are to be free from all ends of sewing threads, be pressed and delivered in a clean condition.
- 5.16.3 All seams are to be free from pucker.
- 5.16.4 All ends of braided nylon are to be heat sealed.

6. MEASUREMENTS

- 6.1 Stock size garments are to conform to the Schedule.
- 6.2 Special measure garments are to be made to the wearer's measurements to be supplied to the contractor: the Schedule is then to be used as a guide for the allowance at the chest and waist over the measurement of wearer and measurements not shown on the special form.

7. IDENTIFICATION/CARE INSTRUCTION LABEL TO BS 5742 PARAGRAPH 3

- 7.1 Composite label may be used.
- 7.2 Position: Attached centrally to the buggy lining 2.5cm below the collar seam; care label below identification label.
- 7.3 Information and format is to be as follows:
 - 7.3.1 For stock sizes: Item name, NATO Stock Number, size, contract number, indication of position for wearer's name and number. The size number is to be 0.6cm high.
 - 7.3.2 For special measure garments Item name, NATO Stock Number, name, number and measurements of wearer, contract number.
 - 7.3.3 Care label: To BS EN 23758 (see over).

Specimen label

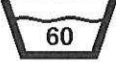




Stock sizes

Special measure

SMOCK, PARACHUTIST'S
 8415-99-132-4015
 Height/Chest
 Size: 180 / 96
 0/000/0000
 Name:
 No:

SMOCK, PARACHUTIST'S
 8415-99-132-4021
 Name:
 No:
 Height:
 Chest:
 0/000/0000

Care label

	Maximum Wash If heavily soiled repeat wash
	DO NOT BLEACH
	Steam iron to improve water repellency
	DO NOT DRY CLEAN
	Tumble Dry - Hot
To maintain water repellency, reproof every third wash with a suitable proprietary reproofing agent.	

ANNEX ACUFFS KNITTED, WOOL

The cuff is to be knitted from two-fold worsted yarn, and it is to be to the shade and quality of that incorporated in the Standard Pattern. The cuff is to be a double layer of fabric, achieved by folding in the middle of its length, and it may be either flat knitted with an overlock side seam or circular knitted. The 'wrist section', when folded, is to be a 5-6cm length of 1x 1 rib having at least 8 courses per cm and the 'sleeve section' is to be a 5cm length of half cardigan construction. The ends of the inner and outer sleeve sections are to be joined with a three thread overlock seam (stitch type 504 of BS 3870) containing at least one thread of wool.

The width of the cuff, when in a relaxed condition, is to be 7-8cm at the wrist and 15cm at the sleeve, and it is to be capable of being stretched in width by a further 8cm in both sections.

The minimum weight of ten pairs of the cuffs is to be 420g.

Colour fastness

The colour fastness of the cuffs is to be not lower than the ratings shown in Table 1 below:

TABLE 1COLOUR FASTNESS REQUIREMENTS

M E T H O D O F T E S T			
BS EN 20105/ISO 105 (Concurrent with BS 1006)			
Part	B02	CO6/C2S	
Agent	Light	Laundering (60°C)	
	Reference Rating	Colour change	Staining Cotton
	5-6	3	3

SCHEDULE
SMOCK, PARACHUTIST'S
All measurements are in centimetres

NATO Stock	Size No Height/ Chest	Measurements of Man		Measurements of Garment													
		Height	Chest	Across chest at level of top of pocket when fastened	From edge to edge at		Length from collar seam				Length of underarm seam from top of cuff to bottom edge	Length of slide fastener	Full width of back	Sleeve			Length of collar at sewing on edge
					Waist	Bottom	Back		Front					Length of topside from shoulder to top of cuff	Width		
							To centre of waist channel	To bottom edge	To centre of waist channel	To bottom edge					Around elbow	Cuff	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
4008	160/88	150	Up to 88	47	120	138							47				
4009	160/96	to	88 – 96	51	128	146	41	75	38	71	91	71	50	49	48	24	47
4010	160/104	160	96 – 104	55	136	154							53		52	28	51
4011	170/88	160	Up to 88	47	120	138							47				
4012	170/96	to	88 – 96	51	128	146	44	78	41	74	99	74	50	54	50	26	49
4013	170/104		96 – 104	55	136	154							53		52	28	51
4014	170/112	170	104 – 112	59	144	162							56		54	30	53
4015	180/96	170	Up to 96	51	128	146							50				
4016	180/104	to	96 – 104	55	136	154	47	84	44	80	110	80	53	59	52	28	51
4017	180/112	180	104 – 112	59	144	162							56		54	30	53
4018	190/104	Over	Up to 104	55	136	154							53				
4019	190/112		104 – 112	59	144	162	50	90	47	86	121	86	56	64	54	30	53
4020	190/120	180	112 – 120	63	152	170							59		56	32	55
4021	For special measure garments																

D/DCTA/P1097 (ST)
D/DCTA/528/09 (QPS)

SPECIFICATION UK/SC/4440 ISSUE 3
SMOCK, PARACHUTIST'S

AMENDMENT NO.1

Page 4, Clause 5.4.1 Front opening

Delete: The front edge of the right forepart is to be provided with sewn-on facing 6m wide,

Insert: The front edge of the right forepart is to be provided with sewn-on facing 5cm wide,

11 April 2000

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