UK/SC/5085 Issue 2

Specification for SHELTER ARCTIC 4 - MAN



Defence Logistics Organisation

ENGINEER SYSTEMS SUPPORT

Integrated Project Team

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NN/SCD/P1852/3 (ST) NV/127/034 (QPS)

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NATO Stock Numbers

Pattern Number

8340-99-978-3518	Shelter Arctic 4 - Man		27138	
	Comprising	of:		
8340-99-978-3511	Shelter Canvas	Otv	1	

0340-99-970-3311	Shehel, Callvas	Qty	1
8340-99-978-3512	Shelter, Liner	"	1
8340-99-978-3513	Bag, Tent	"	1
8340-99-978-3515	Universal Member Shelter Frame	"	20
8340-99-132-1043	Pin, Tent	"	18
8340-99-978-3514	Bag, Shelter Frame Parts	"	1
8340-99-132-1044	Bag, Tent, Pin	"	2
4020-99-978-3516	Guy rope assembly	"	3
4020-99-978-3517	Line Tent	"	2

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This Specification has 6 Pages

Issue	Comments	Date
Number		Published
	Original issue	12 March 1993
1	British Standards updated and amendment 1 & 2 incorporated.	13 May 2002
2	Specification reformatted.	16 June 2005

SPECIFICATION UK/SC/5085 – ISSUE TABLE

1 <u>SCOPE</u>

This specification details the manufacture of the component parts of the Shelter Arctic 4-Man.

2 <u>RELATED SPECIFICATIONS AND DOCUMENTS</u>

- 2.1 Reference is made in this specification to:
- 2.1.1 Specifications

BS EN 12590	Textiles - Industrial sewing threads made wholly or partly from synthetic fibres
BS 3F71	Light duty braided rubber cord
BS 2571	Specification for flexible PVC compounds
BS 3102	Specification for brass eyelets and washers for general purposes
BS 3870	Stitches and seams
BS 7141	Narrow fabrics
BS 7271	Touch and close fastener
UK/SC/2227	Netting, mosquito nylon
UK/SC/3418	Cloth, coated polyurethane on nylon, olive drab, No.1
UK/SC/3632	Webbings and tapes textile, nylon
UK/SC/4425	Cloth plain weave, aramid white
UK/SC/4559	Slide fastener, metallic and non- metallic chain
UK/SC/4888	Cord, braided, cotton
UK/SC/5294	Cloth, modified silicone elastomer, coated

2.1.2 Drawings

A0/8431	Shelter, Arctic, 4-man
A0/8432	Shelter, canvas
A0/8433	Roof and walls
A0/8437	Shelter liner
A1/8434	End Shelter, Sheet 1 and 2
A1/8435	Snood
A1/8438	End, liner, Sheet 1 and 2
A1/8439	Base, liner
A1/8440	Roof and wall (liner)
A1/8441	Bag, tent
A1/8442	Line tent
A1/8443	Guy rope assembly
A2/8436	Keeper
A2/8444	Bag Shelter frame parts
A2/8445	Pin, tent
A3/8446	Universal Member Shelter Frame
A4/8447	Slip line tent

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.

- 2.3 A Standard Pattern, obtainable from the Quality Assurance Authority named in the contract, is to provide the criteria for any materials, components or design features not fully defined in this Specification.
- 3 <u>MATERIALS</u>
- 3.1 Cloth, modified silicone-elastomer coated on nylon, IRR, NATO Green, Pattern No.8818C, to Specification UK/SC/5294, NATO Stock No.8305-99-244-5362.
- 3.2 Cloth, coated polyurethane on nylon, No.1 olive drab, Pattern No.8145F, to Specification UK/SC/3418, NATO Stock No.8305-99-563-4878.
- 3.3 Cloth, plain weave, aramid, white, Pattern No.8566A to Specification UK/SC/4425, NATO Stock No.8305-99-781-9941.
- 3.4 Tape, textile, nylon, stretch, olive drab 19mm wide, Pattern No.9447A (19mm), and white, 19mm wide, Pattern No.9447 (19mm) to Specification UK/SC/3632.
- 3.5 Webbing, textile, nylon, single ply, olive drab, 100mm wide, Pattern No.9442A (100mm) to BS 7141 Part 1, Table 1.
- 3.6 Webbing, textile, nylon, single ply, olive drab, 25mm wide, Pattern No.9442A (25mm), White, 25mm wide, Pattern No 9442 (25mm) to BS 7141 Part 1, Table 1.
- 3.7 Webbing, textile, nylon, two ply, olive drab, 25mm wide, Pattern No.9350A (25mm) to BS 7141 Part 1, Table 1, NATO Stock No.8305-99-920-8345.
- 3.8 Webbing, textile, nylon, olive drab, 25mm wide, Pattern No.9438A (25mm) to BS 7141 Part 1, Table 1, NATO Stock No.8305-99-136-8184.
- 3.9 Touch and close fastener, hook and loop, 30mm and 50mm wide, olive drab and white, to BS 7271.
- 3.10 Cord, braided cotton, green, 7mm wide, Pattern No.9505C to Specification UK/SC/4888, NATO Stock No.8315-99-132-0617.
- 3.11 Cord, plaited polyester, 5mm diameter, olive drab and white, without core 8 strands, MBL 295kg trade pattern (SYC 11).
- 3.12 Cord, plaited polyester, 4mm diameter with core, olive drab, 16 strands, MBL 227kg trade pattern (SYC 33).
- 3.13 GRP tube ¹/₂ inch olive drab, 3/8 inch inside dia with spigots, manufactured by Pultrex Ltd, Clacton-on-Sea, Essex or an alternative approved by the Quality Assurance Authority named in the contract.
- 3.14 Eyelets, metallic, and washers, Ref 2A/1/2B to BS 3102.
- 3.15 PVC tubing made from flexible PVC compound, black conforming to class 3 type G5 of BS 2571 except in respect of the requirements for cold bend temperature and cold flex temperature before and after ageing.
- 3.16 Shock cord, 5mm dia O/D to BS 3F71 to guide or an alternative approved by the Quality Assurance Authority named in the contract.
- 3.17 Shock hook for shock cord, (two parts) KH8, manufactured by ITW Nexus (UK) Ltd, Daneshill Industrial Estate, Basingstoke, Hants, RG24 OPP, or an alternative approved by the Quality Assurance Authority named in the contract.
- 3.18 Buckles, CLL25, manufactured by ITW Nexus (UK) Ltd, Daneshill Industrial Estate, Basingstoke, Hants, RG24 OPP or an alternative approved by the Quality Assurance Authority named in the contract.

- 3.19 Cord grips, 12mm dia, 5mm dia, 15mm length, NATO Green, manufactured by Falcon Precision Ltd, Unit 3, Holmlea, Lynwood Park, Clayton-le-moors, Accrington, Lancs, BB5 5ZX or an alternative approved by the Quality Assurance Authority named in the contract.
- 3.20 Fixloc cord buckle, black, Pattern No.194, manufactured by Butonian (London) Ltd, 260264 Kingsland Road, London E8 or an alternative appproved by the Quality Assurance Authority named in the contract.
- 3.21 Runners, tent, wood, 3 inches long x ¼ inch thick, bonded ply R/P Marine quality, to Drawing No.A4/8447.
- 3.22 Hooks snap, black, acetal, manufactured by ITW Nexus (UK) Ltd, Daneshill Industrial Estate, Basingstoke, Hants, RG24 OPP, or an alternative approved by the Quality Assurance Authority named in the contract.
- 3.23 Pin tent, alloy, length 300mm, 30mm wide, manufactured by The Hampton Works (Stamping) Ltd, Twying Road, Stirchley, Birmingham B30 2XZ or an alternative approved by the Quality Assurance Authority named in the contract.
- 3.24 Slide fastener, polyester spiral chain, heavyweight, 9mm wide stringer, nylon or polyester chain 9mm wide, olive drab, closed end, double puller non locking, to Specification UK/SC/4559, NATO Stock No.5325-99-863-5809.
- 3.25 Slide fastener, moulded member, 19mm wide stringer, 180cm long, open end, olive drab, Code No.VFO/105L, to Specification UK/SC/4559, NATO Stock No.5325-99-754-6994, manufactured by YKK Ltd, Runcorn, Cheshire, WA7 3BW.
- 3.26 Netting, mosquito, nylon olive drab, Pattern No.8047B, to Specification UK/SC/2227, NATO Stock No.8305-99-125-2084.
- 3.27 Thread, polyester and cotton, continuous filament core, cotton sheath, BS EN 12590, olive drab and white, Metric Ticket No.20/18 and 50 or an alternative approved by the Quality Assurance Authority named in the contract.
- 3.28 Marking ink of good commercial quality indelible black.
- 3.29 Slide fastener, polyester spiral chain, heavyweight, 9mm wide stringer, nylon or polyester chain 9mm wide, white, closed end, single puller, non-locking to specification UK/SC/4559. NATO Stock No 5325-99-008-0737.

4 <u>MANUFACTURE</u>

4.1 <u>Fabrication</u>

The Shelter Arctic 4-man is to be manufactured in accordance with the Drawings referred to in clause 2.1.2. Marking by perforation holes will not be permitted. All ends of webbing and tapes are to be heat-sealed.

4.2 <u>Seams and stitching to BS 3870</u>

Sewing is to be stitch type 301 of BS 3870 Part 1 with not less than six nor more than eight stitches per 25mm and be correctly tensioned. Thread breaks in the stitching are to be back-stitched not less than 25mm at each break. Stitching is to be over-sewn at the ends to prevent ravelling, except where ends are turned under in a hem or held down by other stitching. There is to be no loose stitching. Run-off stitching of edges will not be permitted.

All raw edges are to be finished using stitch types 502, 503, 502 and 505 of BS 3870. No over locking done, all turned seams on liner.

Seams to conform to stitch types 6.02.01, 6.03.01, 1.01.01, 1.01.02 and 1.01.04 of BS 3870.

4.3 Eyelets and washers

Holes punched to receive the eyelets are to be smaller than the outside diameter of the eyelet barrel, so that the barrel must be forced through the hole. The eyelets are to be securely clinched without cutting the material.

5 <u>MARKING</u>

The Shelter Arctic 4-man is to be clearly and indelibly marked with the item name, contractor's name, initials or recognised trade mark, the year of manufacture, the NATO Stock Number, and such other markings as the contract may require. The marking is to be on the fly sheet either end of tent left hand side 6" from main side seam and 6' up from cloth seam.

6 <u>PACKAGING</u>

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

7 <u>INSPECTION</u>

Inspection is to be carried out to the satisfaction of the Quality Assurance Authority named in the contract.

Copies of Specifications and Standards may be obtained from the following departments. It is advisable to check the current terms of issue and/or charges for publications at the time of ordering.

BRITISH STANDARDS

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