



**Performance Specification for  
FIELD PACK  
Daysack**

Soldier Training & Special Programmes  
(STSP)  
Survivability Delivery Team (SURV)

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MINISTRY OF DEFENCE

Defence Equipment & Support



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PREFACE

TABLE 1 – PRODUCT LIST

<b>Item Name</b>	FIELD PACK, DAYSACK	
<b>Development File No</b>	D/DCIPT/RDG/NR/198/02	
<b>NATO Stock Number</b>	<b>Item Name</b>	<b>Pattern No</b>
8465-99-131-6017	Daysack Black	Nil
8465-99-573-0970	Daysack Blue	Nil

**Any colour shown in this document is for representation and must not be used for colour matching.**

IPR STATEMENT

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**Technical documents in this specification refer to the edition current at the date of tender or contract unless otherwise stated.**

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TABLE 2 – ISSUE RECORD

<b>Issue No</b>	<b>Comments</b>	<b>Issue Date</b>
1	New Specification superseding DC/PS/5923	18 September 2018

THE PRODUCT

Use of the Product: The Non-Operational daysack will be used by Army, Navy and RAF Personnel on normal station duties and by recruits at training establishments.

TABLE 3 – RELATED SPECIFICATIONS AND DOCUMENTS

<b>Specification/Document</b>	<b>Detail</b>
BS EN ISO 105 Part B02  Part C06  Part E01 Part E02 Part E04 Part X12	Textile. Test for colour fastness. Colour fastness to artificial daylight: Xenon arc fading lamp test Colour fastness to domestic and commercial laundering Colour fastness to water Colour fastness to sea water Colour fastness to perspiration Colour fastness to rubbing
BS EN ISO 1421	Rubber or Plastic coated fabrics. Determination of tensile strength and elongation at break
BS EN ISO 2286  Part 2	Rubber or plastic coated fabrics. Determination of roll characteristics  Method for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate
BS EN ISO 2307	Fibre ropes for general service. Determination of certain physical and mechanical properties
BS EN ISO 4674  Part 1	Rubber or plastic coated fabrics. Determination of tear resistance.  Constant rate of tear methods
BS EN ISO 5077	Textiles. Determination of dimensional change in washing and drying
BS EN ISO 6330	Textiles. Domestic washing and drying procedures for textile testing
BS EN ISO 13934  Part 1	Textiles. Tensile properties of fabrics  Determination of maximum force and elongation at maximum force using the strip method
BS EN 20471:2013	High-visibility warning clothing. Test methods and requirements
BS EN 1049  Part 2	Textiles. Woven Fabrics. Construction  Methods of analysis. Determination of number of threads per unit length

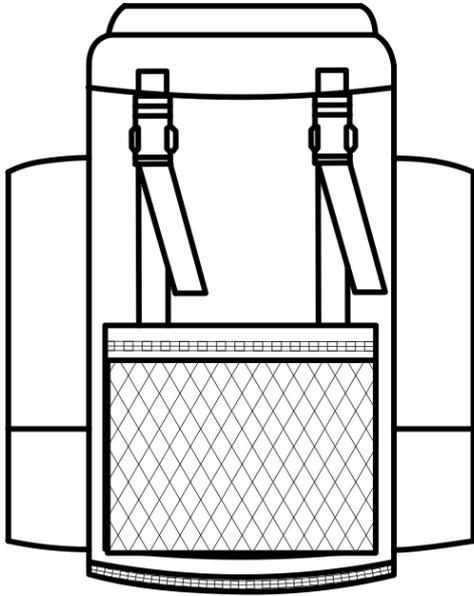
**TABLE 3 – RELATED SPECIFICATIONS AND DOCUMENTS continued**

<b>Specification/Document</b>	<b>Detail</b>
BS EN 12127	Textiles. Fabrics. Determination of mass per unit area using small samples
BS EN 12280 Part 3	Rubber or plastic – coated fabrics – accelerated ageing test Environmental ageing
BS EN 12590	Textiles. Industrial sewing threads made wholly or partly from synthetic fibres
BS EN 25978	Rubber or plastic coated fabrics. Determination of blocking resistance
BS 2861	Methods for presentation of a weave diagram and plans for drafting, denting and lifting
BS 3084	Specification for slide fasteners
BS 3424 Part 8:1983 Part 26	Testing coated fabrics. Method for determination of low temperature performance Method for determination of resistance to water penetration and surface wetting
BS 5441	Methods of test for knitted fabrics
BS 5742	Textile labels requiring to be washed and/or dry-cleaned
BS 7141 Part 1 Part 5	Narrow Fabrics. Specification for polyamide and polyolefin woven tapes and webbing. Specification for elastic flat braids containing natural rubber

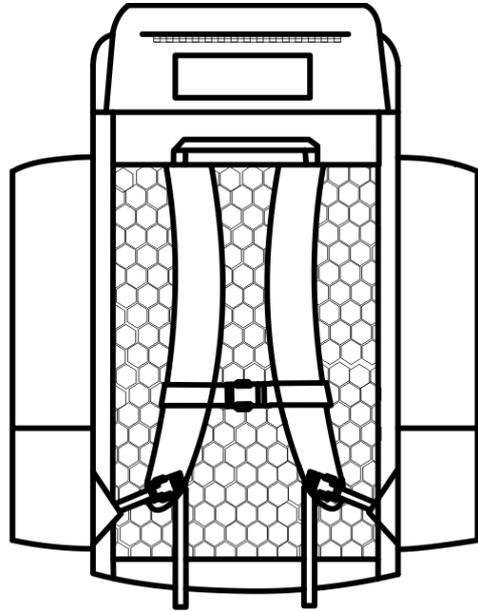
PART 2

2. PRODUCT DESIGN

Figure 1: Daysack



Front



Back

**TABLE 4 – PRODUCT DESCRIPTION**

A day sack with side and top pockets in two colours, black and blue, with the blue day sack with the additional features specific to the RAF, including the RAF logo on the top lid and high visibility strips on the front on the day sack and shoulder straps.

4.1	<b>Main Material &amp; Components</b>	
	1.	<ul style="list-style-type: none"> <li>• The daysack shall be made from cloth, coated polyurethane on textured nylon</li> <li>• To meet the requirements of Table 7</li> </ul>
	2.	<ul style="list-style-type: none"> <li>• All webbing is to comply with the requirements of BS 7141 Part 1 the colour is to match the main material of the daysack. The ends of the webbing are to be heat-sealed</li> </ul>
	3	<ul style="list-style-type: none"> <li>• Cloth, warp, knitted polyester mesh to meet the requirements of Tables 8 &amp; 9</li> </ul>
	4.	<ul style="list-style-type: none"> <li>• Thread, colour to match the main material and to comply with the requirements of BS EN 12590 Table 5, Metric Ticket No 20</li> </ul>
	5.	<ul style="list-style-type: none"> <li>• Drawcord to comply with BS EN ISO 2307, colour to match the main material</li> </ul>
	6.	<ul style="list-style-type: none"> <li>• Slide fasteners, Heavy Weight, are to comply with BS 3084, colour to match the main material</li> </ul>
	7.	<ul style="list-style-type: none"> <li>• Any elastic used is to comply with the requirements of BS 7141 Part 5 Reference Number 2</li> </ul>
	8.	<ul style="list-style-type: none"> <li>• The embroidery threads are to conform to BS EN ISO 105 Parts:</li> <li>• B02 Colour fastness to Artificial Light - colour change result of 4 (minimum)</li> <li>• E01 Colour fastness to Water - colour change result of 4 (minimum)</li> </ul>
	9.	<ul style="list-style-type: none"> <li>• The high visibility strips are to conform to the requirements of BS EN 471 Clauses 6.1 and 6.2.1</li> </ul>

**TABLE 5 – PRODUCT CONSTRUCTION**

<b>Construction</b>	
5.1	<b>Seams</b>
	1. • All seams must include 1cm (+/- 2mm) seam allowance
	2. • Where the drawcord channel is attached to the main compartment of the day sack, this seam must be bound to prevent fraying
	3. • All webbing and tapes must be heat sealed and be securely attached
5.2	<b>Features</b>
	1. • The daysack is to have an overall capacity of 30 litres (+5ltrs – 0ltrs). This is to include the side pouches, bottom compartment and top pouch
	2. • The colour of the daysack is to be Black, or Blue to pantone shade 19-4110 TC
	3. • The daysack is to be fitted with side pouches, with a capacity of 2.5 litres (+/- 0.5ltrs); these are to have a slide fastener closure, with a flap covering the slide fastener
	4. • The lid of the daysack is to be fitted with a pouch, with a capacity of 2.5 litres (+/- 0.5ltrs); this is to have a slide fastener closure
	5. • The lid of the daysack is to be secured by side release buckles, which are to be adjustable • Buckles used are to be commensurate with size of webbing
	6. • The sides of the lid are to be elasticated to allow for increased bulk within the main sack
	7. • The shoulder straps are to be padded for comfort, using closed cell foam, apparent density 40kgm <sup>3</sup> +/- 10kgm <sup>3</sup> , 10mm (+/- 2mm) thick. The shoulder straps are to be at least 6cm wide
	8. • The shoulder straps are to be fitted with a chest strap, which can be elasticated • The chest strap is to be closed by means of a side release buckle
	9. • The daysack is to have a grab handle at the top back

**TABLE 5 – PRODUCT CONSTRUCTION CONTINUED**

5.2	<b>Features</b>	
	10.	<ul style="list-style-type: none"> <li>• The main compartment of the daysack is to be fitted with a drawcord, which is secured in place with a cord lock. Where the drawcord channel is attached to the main compartment of the daysack a minimum of 1cm (+/- 2mm) seam allowance should be taken to prevent seam slippage</li> </ul>
	11.	<ul style="list-style-type: none"> <li>• The back of the daysack is to be padded, using closed cell foam, apparent density 40kgm<sup>3</sup> +/- 10kgm<sup>3</sup>, 10mm thick (+/-2mm), to provide comfort to the carrier</li> <li>• The back of the day sack may be covered in main material Or</li> <li>• Mesh, black</li> </ul>
	12.	<ul style="list-style-type: none"> <li>• An ID pocket is to be attached to the rear of the lid of the daysack, approximately 10cm in length and 7cm in width. The ID pocket is to be covered with a flap</li> </ul>
	13.	<ul style="list-style-type: none"> <li>• The front of the daysack is to be fitted with a mesh pocket with slide fastener closure. Width 24cm x Height 20cm (+/- 1cm)</li> </ul>
	14.	<ul style="list-style-type: none"> <li>• There is to be a separate compartment in the bottom of the daysack, which is to be accessed externally through a slide fastener closure. The inner of this compartment is to be made from the same material as the daysack. The capacity of this compartment is to be 4 litres (+/- 0.5ltrs)</li> </ul>

TABLE 5 – PRODUCT CONSTRUCTION continued

<b>Construction</b>	
<b>5.3</b>	<b>Features – Blue Daysack ONLY</b>
1.	<ul style="list-style-type: none"> <li>The daysack is to have high visibility strips 2cm wide (+/- 0.5cm) sewn either side along the full length of the slide fastener</li> </ul>
2.	<ul style="list-style-type: none"> <li>The shoulder straps are to have high visibility strips 2cm wide (+/-0.5cm) sewn centrally along the full padded length of the shoulder strap</li> </ul>
3.	<ul style="list-style-type: none"> <li>It is desirable that the pouch on the lid of the daysack has a logo, as detailed in Annex A. The logo is to be positioned centrally, with the wording 'Royal Air Force' towards the front opening'</li> <li>The method of attaching the logo detailed below is listed in order of preference               <ul style="list-style-type: none"> <li>The logo is to be embroidered directly on to the pouch</li> <li>OR</li> <li>The logo is to be produced as a separate badge and then be sewn on to the pouch</li> <li>OR</li> <li>The logo is to be produced as a separate badge with touch and close fastener sewn on to the rear of the logo with the corresponding half of the touch and close fastener is to be sewn to the pouch. The touch and close fasteners are to be no larger than the size of the logo badge</li> </ul> </li> </ul>

TABLE 6 – LABELLING REQUIREMENTS

<b>Description of Label</b>	
6.1	<b>Design</b>
	1. Each daysack is to have an identification label sewn on the inside of the daysack, containing the information listed below
6.2	<b>Information</b>
	1. <ul style="list-style-type: none"><li>• Item Name</li><li>• NATO Stock No</li><li>• Contract No</li><li>• Name</li><li>• No.</li></ul>
	2. Marking label to comply with the requirements of BS 5742 paragraph 3

TABLE 7 – PHYSICAL PERFORMANCE REQUIREMENTS

METHOD OF TEST													
BS 2861	BS EN 1049-2		BS EN ISO 2286-2			BS EN ISO 1421 Method 1		BS EN ISO 4674-1 Method A		BS 3424 Pt 26 Method 29C Index Mode <sup>(1)</sup>		BS 3424 Pt 8:1983 Method 10A	BS EN 25978
Weave	Threads		Mass			Breaking Load		Tear Strength Using Large Samples		Resistance to Water Penetration		Cold Crack Temperature	Blocking
	per cm		g/m <sup>2</sup>			N		N		kPa		°C	
	min		min			min		min		min		min	
	Warp	Weft	Total	Base Cloth	Coating	Warp	Weft	Warp	Weft	As Rec'd	After ageing <sup>(2)</sup>		
1x1 Plain	13.5	11.0	370	305	65	2800	2500	550	525	6.5	4.0	No individual sample higher than 20	No blocking

(1) 10 specimens are to be tested with the fabric side in contact with the water. There is no requirement to test coated side to water.

(2) Ageing to BS EN 12280-3 (70°C & 95% rh) for 24 hrs

TABLE 8 – PHYSICAL PERFORMANCE REQUIREMENTS

METHOD OF TEST						
BS 5441		BS EN 12127	BS EN ISO 13934-1		BS EN ISO 5077	
Threads		Mass	Breaking Load		Stability to Laundering After 1 wash/dry cycle to BS EN ISO 6330 Process 2A, Drying Procedure E (cool)	
per cm		g/m <sup>2</sup>	N		%	
± 1		min	min		max	
Wales/ Warp	Courses/ Weft		Wales/ Warp	Courses/ Weft	Wales/ Warp	Courses/ Weft
8	9	350	1000	1000	4%	4%

TABLE 9 – MINIMUM COLOUR FASTNESS REQUIREMENTS

METHOD OF TEST										
BS EN ISO 105										
B02	C06:C2S		E01		E02		E04		X12	
Light	Washing		Water		Sea Water		Perspiration Acid & Alkali		Rubbing	
Rating	Change	Stain	Change	Stain	Change	Stain	Change	Stain	Dry	Wet
5-6	4	3-4	4	3-4	4	3-4	4	3-4	3	3

ANNEX A

RAF LOGO



- Logo dimensions – 100mm x 50mm
- The colours to be used in the logo are detailed below:
  - Red – Royal Air Force Red – Pantone 186. CO.M100. Y81. K4.R204. G0. B51
  - Blue – Royal Air Force Blue – Pantone 295. C100. M57. Y0. K40. R0. G0. B102
  - White
- Note – if the logo is being embroidered directly on to the daysack the main material is to be used as the background of the logo.