



# Ministry of Defence

Army Equipment Support Publication

## PURPOSE AND PLANNING INFORMATION

**SHELTER, GENERAL PURPOSE**

**7.3 M x 5.5 M (24 FT x 18 FT) MK 4**

**NSN 8340-99-891-0224/8340-99-421-2154**

8340-C-114-101

3<sup>rd</sup> Edition September 2018

**Sponsored for use in the  
United Kingdom Ministry of Defence  
and Armed Forces by Defence Equipment & Support Land Equipment  
Head Quarters Engineering, Engineering Publications**

This information is released by the UK Government for Defence purposes only. This information must be afforded the same degree of protection as that afforded to information of an equivalent classification originated by the recipient Government or as required by the recipient Government's National Security regulations. This information may be disclosed only within the Defence Department of the recipient Government, except as otherwise authorized by the Ministry of Defence (Army). This information may be subject to privately owned rights.

**Publication Authority:**



Service users should send their comments through the channel prescribed for the purpose by the publication sponsor.

© CROWN COPYRIGHT RESERVED

THIS DOCUMENT IS THE PROPERTY OF HER BRITANNIC MAJESTY'S GOVERNMENT, and is issued for the information of such persons only as need to know its contents in the course of their official duties. Any person finding this document should hand it in to a British forces unit or to a police station for its safe return to the Ministry of Defence, (DDef Sy), Main Building, Whitehall London, SW1A 2HB, with particulars of how and where found. THE UNAUTHORIZED RETENTION OR DESTRUCTION OF THIS DOCUMENT IS AN OFFENCE UNDER THE OFFICIAL SECRETS ACTS OF 1911-1989. (When released to persons outside Government service, this document is issued on a personal basis. The recipient to whom it is entrusted in confidence, within the provisions of the Official Secrets Acts 1911-1989, is personally responsible for its safe custody and for seeing that its contents are disclosed only to authorized persons).

AMENDMENT RECORD

Amdt No	Incorporated By (Signature)	Date
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		

Amdt No	Incorporated By (Signature)	Date
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		

**PAGE LEFT INTENTIONALLY BLANK**

**CONTENTS**

**PRELIMINARY MATERIAL**

Page

Front cover (title page) .....	(i)
AMENDMENT RECORD .....	(iii)
CONTENTS (this page) .....	(v)
PREFACE .....	(vi)
Introduction .....	(vi)
Related and associated publications .....	(vii)
Related publications .....	(vii)
Associated publications .....	(viii)
Abbreviations .....	(viii)
WARNINGS AND CAUTIONS .....	(ix)
Warnings .....	(ix)
Cautions .....	(x)

**PURPOSE AND PLANNING INFORMATION**

1	Purpose and Planning Information
---	----------------------------------

**PREFACE**

Sponsor:	DE&S OI
Project Number:	-
File Ref:	-
Publication Agency:	OI

**INTRODUCTION**

1. Service users should forward any comments on this publication through the channels prescribed in AESP 0100-P-011-013. An AESP Form 10 is provided at the end of the preliminary pages; it should be photocopied and used for forwarding comments on this AESP.
2. AESPs are issued under Defence Council authority and where AESPs specify action to be taken, the AESP will of itself be sufficient authority for such action and also for the demanding of the necessary stores, subject to the provisions of Para 3 below.
3. The subject matter of this publication may be affected by Defence Instruction Notices (DINs), Standard Operating Procedures (SOPs) or by local regulations. When any such Instruction, Order or Regulation contradicts any portion of this publication it is to be taken as the overriding authority.

**RELATED AND ASSOCIATED PUBLICATIONS**

**Related publications**

4. The octad for the subject equipment consists of all the categories shown in Table 1. All references are prefixed with the first eight digits of this publication. The availability of the publications can be checked by reference to the relevant Group Index in AESP 0100-A-001-013.

Category/Sub-Category		Information Level				
		1 User/Operator	2 Unit Maintenance	3 Field Maintenance	4 Base Maintenance	
1	0	Purpose and Planning Information	101	101	101	101
	1	Equipment Support Policy Directives	*	*	*	*
2	0	Operating Information	*	*	*	*
	1	Aide Memoire	201	*	*	*
	2	Training Aids	*	*	*	*
3		Technical Description	*	*	*	*
4	1	Installation Instructions	*	*	*	*
	2	Preparation for Special Environments	*	*	*	*
5	1	Failure Diagnosis	*	*	*	*
	2	Repair Instructions	201	*	201	*
	3	Inspection Standards	201	*	*	*
	4	Calibration Procedures	*	*	*	*
6		Maintenance Schedules	201	201	201	201
7	1	Illustrated Parts Catalogues	711	711	711	711
	2	Commercial Parts Lists	*	*	*	*
	3	Complete Equipment Schedule, Production	*	*	*	*
	4	Complete Equipment Schedule, Service Edition (Simple Equipment)	741	741	741	741
	5	Complete Equipment Schedule, Service Edition (Complex Equipment)	*	*	*	*
8	1	Modification Instructions	*	*	*	*
	2	General Instructions, Special Technical Instructions and Servicing Instructions	*	*	*	*
	3	Service Engineered Modification Instructions (RAF only)	*	*	*	*

\* Category/Sub-category not published.

**Table 1: Related Publications**

**Associated publications**

5. There are no associated publications applicable to this equipment.

**ABBREVIATIONS**

6. The following abbreviations are used in this AESP.

<u>Abbreviation</u>	<u>Nomenclature</u>
AESP	Army Equipment Support Publication
DIN	Defence Instruction Notices
Fig	Figure
ft.	feet (foot)
ft3	feet cubed
in.	inch
kg	kilogram
lb	pound
m	metre
m2	metres squared
m3	metres cubed
mm	millimetres
NATO	North Atlantic Treaty Organisation
NSCM	NATO Supply Code for Manufacturers
NSN	NATO Stock Number
Para	Paragraph
PPE	Personal Protective Equipment
SOP	Standard Operating Procedures



## WARNINGS AND CAUTIONS

### HAZARDOUS SUBSTANCES

7. Before using any hazardous substances or material, the user must be conversant with the safety precautions and first aid instructions:

- 7.1. On the label of the container it was supplied in.
- 7.2. On the material Safety Data Sheet.
- 7.3. In local Safety Orders and Regulations.

### WARNINGS

- (1) PERSONNEL INJURY/EQUIPMENT DAMAGE. SUFFICIENT PERSONNEL ARE REQUIRED WHEN LIFTING THE ASSEMBLED ROOF, THE MINIMUM IS ONE PERSON PER LEG.
- (2) PERSONNEL INJURY/CRUSH HAZARD. EXERCISE CAUTION WHEN ASSEMBLING POLES AND BRACKETS DUE TO THE RISK OF CRUSH INJURY TO FINGERS.
- (3) PERSONNEL INJURY. WHEN POLES ARE CURVED UNDER TENSION THERE IS A HIGH RISK THAT THEY MAY SLIP AND SPRING BACK TO THEIR STRAIGHT RELAXED POSITION. PERSONNEL SHOULD NOT POSITION THEMSELVES DIRECTLY IN FRONT OF THE POLES.
- (4) PERSONNEL INJURY/HEAVY WEIGHT. MINIMUM PERSONNEL NUMBERS REQUIRED TO LIFT OR MOVE THE SHELTER SHOULD BE OBSERVED.
- (5) PERSONNEL INJURY/BURN HAZARD. WHEN BURNING WEBBING TO PREVENT FRAYING, THE WEBBING WILL BECOME EXTREMELY HOT AND MELT.
- (6) PERSONNEL INJURY, WHEN FITTING OR RELEASING THE INSULATION TENSIONERS THERE IS A HIGH RISK THAT UNDER TENSION THEY MAY SLIP AND SPRING BACK AT PERSONNEL.
- (7) IT IS ESSENTIAL THAT THE BASE RESTRAINT STRAPS AND THE FRAME RESTRAINT STRAPS ARE FITTED TO THE FRAME BEFORE INSTALLING THE PVC COVERS. THIS ENSURES THAT THE FRAME IS RIDGID AND ENHANCES THE WIND RESISTANCE OF THE SHELTER AS WELL AS MAKING IT EASIER TO FIT THE COVERS.
- (8) WHEN REPAIRING PVC COVERS, THE TEXTILE NEEDS TO BE ABRAIDED. PVC DUST IS TOXIC AND SHOULD NOT BE INHALED. WEAR THE APPROPRIATE PPE.
- (9) WHEN REPAIRING PVC COVERS, A CONTACT ADHESIVE IS UTILISED. FOLLOW SAFETY DATA SHEET SUPPLIED WITH THE CONTACT ADHESIVE.

**CAUTIONS**

- (1) **EQUIPMENT DAMAGE.** The shelter is to be pitched on firm level ground and it is essential that adequate anchorage or ballast be placed on the coated fabric sod cloths at the bottom of the wall and ends of the shelter. The listed tent pins or spoil from drainage trenches is suitable for this purpose and may be used in sandbags or other flexible containers, if available. Guy lines are also provided to give additional stability under high wind conditions.
- (2) **EQUIPMENT DAMAGE.** Wet textile should never be folded or packed unless circumstances render this unavoidable. Shelters should therefore be left to dry thoroughly before they are struck. If the shelter is not completely dry the officer in charge of the campsite or receiving unit is to be informed.
- (3) **EQUIPMENT DAMAGE.** All insulation panels can be added after the shelter has been erected **EXCEPT** the roof panel that must be attached to the frame prior to the covers.
- (4) **EQUIPMENT DAMAGE.** When lifting the roof, the supervisor must ensure that the lift is even along the length of the frame, thus avoiding distortion of the brackets and poles.
- (5) **EQUIPMENT DAMAGE.** The sunshade when fitted is to be erected prior to the shelter if possible or alternatively moved into position over the tent after assembly with the base restraint straps being added after it is in its final position. The ratchet straps should not be over tightened and never used if damaged.
- (6) **EQUIPMENT DAMAGE.** The shelter is to be erected on firm level ground, which has been cleared of any large stones or rubble.
- (7) **EQUIPMENT DAMAGE.** A power washer may be used at low pressure with warm water. Use judgement and caution regarding water pressure and temperature.
- (8) **EQUIPMENT DAMAGE.** Do not use solvents or detergents to clean the shelter as they will dissolve the protective coating on the fabric.
- (9) **EQUIPMENT DAMAGE.** Rips and tears must be repaired immediately to maintain the insulation integrity.
- (10) **EQUIPMENT DAMAGE.** The PVC covers are different from the cotton canvas covers in that they do not stretch. Fitting the end gables requires the frame to be in the correct position to fit the PVC cover spigots over the frame extensions using the appropriate straps. Do not under any circumstances force the canvas into position or use frame parts to level the canvas into position.

CHAPTER 1

PURPOSE AND PLANNING INFORMATION

CONTENTS

Para

- 1 Equipment Identity
- 1     Designation
- 2     Manufacturer
- 3 Role
- 4 Description
- 6 Manning Requirements
- 11 Transportation Data
- 12 Physical Data
- 13 Environmental Data
- 14 Weights and Dimensions
- 22 Comment(s) on AESP

**EQUIPMENT IDENTITY**

**Designation**

- 1. The equipment is designated:  
  
SHELTER, GENERAL PURPOSE 7.3 M X 5.5 M (24 FT X 18 FT) MK 4  
  
NATO Stock No. 8340-99-891-0224 for the basic shelter  
NATO Stock No. 8340-99-421-2154 for the shelter including insulation

**Manufacturer**

- 2. The equipment is manufactured by: ColPro Utilis (JV) Ltd

**ROLE**

- 3. To provide general purpose accommodation

**DESCRIPTION**

- 4. A framed shelter with gradual sloping side walls. The frame is composed of aluminium poles and brackets with a four-piece cover fitted over the top.
- 5. The MK 4 version utilises flame resistant PVC coated polyethylene (PVC Textile) in place of cotton canvas. All PVC parts are interchangeable with cotton canvas parts by attachment using Dutch lacing. The MK 4 PVC tent also has the option of quick connection using keder rails.

**MANNING REQUIREMENTS**

- 6. Erection time                   6 personnel = 45 mins (40 mins with keder rail) excluding insulation
- 7. Striking time                   6 personnel = 20 mins
- 8. Reposition                   11 personnel
- 9. Installing insulation       2 personnel = 10 mins
- 10. All times estimated.

**TRANSPORTATION DATA**

11. There are no transportation restrictions, item weighs 280 kg when dry.

**PHYSICAL DATA**

12. None

**ENVIRONMENTAL DATA**

13. None

**WEIGHTS AND DIMENSIONS**

- |     |                 |   |
|-----|-----------------|---|
| 14. | Pitching space  | 9.15 m x 8.53 m (30 ft. x 28 ft.)   |
| 15. | Floor space     | 7.3 m x 6.4 m (24 ft. x 21 ft.)   |
| 16. | Height at ridge | 3.3 m (11 ft.)  |
| 17. | Height at eaves | 1.8 m (6 ft.)   |
| 18. | Width at eaves  | 5.5 m (18 ft.)  |
| 19. | Weight          | 280 kg (616 lb) approx. excluding insulation 320 kg (705 lb)                  |
| 20. | Packed size     | 1 m <sup>3</sup> excluding insulation 1.6 m <sup>3</sup> including insulation |
| 21. | Floor area      | 46.8 m <sup>2</sup>   |

COMMENTS (S) ON AESP\*

From: .....  
.....  
.....  
.....

To: [Redacted]  
[Redacted]  
[Redacted]  
[Redacted]

<b>Senders Reference</b>	<b>BIN Number</b>	<b>Date</b>
<b>AESP* Title: PURPOSE AND PLANNING INFORMATION</b>		
<b>Chapter(s)/Instruction</b>	<b>Page(s)/Paragraph(s)</b>	
If you require more space please use the reverse of this form or a separate piece of paper. <b>Comment(s):</b>		

Signed: ..... Telephone No: .....

Name (Capitals): ..... Rank/Grade: ..... Date: .....

**FOR AESP\* SPONSOR USE ONLY**

To: ..... From: .....  
.....  
.....

Thank you for commenting on AESP 8340-C-114-101

Your reference: ..... Date: .....

Action is being taken to:	Tick		Tick
Issue a revised/amended AESP*		Under investigation	
Incorporate comment(s) in future amendments		No action required	
<b>Remarks</b>			

Signed: ..... Telephone No: .....

Name (Capitals): ..... Rank/Grade: ..... Date: .....

\* AESP or EMERAESP Form 10 (Issue 5.0 dated Dec 01)