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[REDACTED]

Our Reference:  
FOI2018/07967

Date:  
18 July 2018

Email: [REDACTED]

[REDACTED]

Dear [REDACTED]

Thank you for your email of 13 June 2018, concerning access to JSP 361, which followed my earlier FOI response (FOI2018/07163 dated 13 June 2018). It has been handled in accordance with the Freedom of Information (FOI) Act 2000.

The information you have requested is provided below:

***hello, thank you for your reply, unfortunately the reason for the initial request was because we cant recognise the items we have hence the request for literature that more or less covered the full range.***

***Would it be possible to have access to the JSP you have some stock of even if its only partial? failing that a copy of the AESP index which covers these items so i could look through that for the relevant publication numbers that would roughly relate to the items we may have, at which point i could then send another FOI with a little more specific publication requests?***

I can confirm that the Ministry of Defence holds information relevant to your request.

In answer to your question: Yes, we can provide access to the available stock. Please find attached copies of JSP 361 and the five available supplements (2, 3, 4, 7 & 11), which is released with the following caveats:

- The design and usage information was correct at the time of issue. There may have been design changes subsequently that won't have been taken into account, due to the age of the JSP. If necessary, the requestor needs to specify the type of tent they're trying to use – each should have a NATO Stock Number stamped on it somewhere – and put in an FOI request for the most up to date AESP for that tent.
- The documents are written on the understanding that they are being used by military personnel, so any instructions – such as the number of personnel required to lift/strike/erect/shift the tent – will be based on general military fitness.

If you are not satisfied with this response or you wish to complain about any aspect of the handling of your request, then you should contact me in the first instance. If informal resolution is not possible and you are still dissatisfied then you may apply for an independent internal review by contacting the Deputy Chief Information Officer, 2nd Floor, MOD Main Building, Whitehall, SW1A 2HB (e-mail CIO-FOI-IR@mod.uk). Please note that any request for an internal review must be made within 40 working days of the date on which the attempt to reach informal resolution has come to an end.

If you remain dissatisfied following an internal review, you may take your complaint to the Information Commissioner under the provisions of Section 50 of the Freedom of Information Act. Please note that the Information Commissioner will not investigate your case until the MOD internal review process has been completed. Further details of the role and powers of the Information Commissioner can be found on the Commissioner's website, <http://www.ico.gov.uk>.

Yours sincerely

Jerry Gower  
Defence Equipment and Support



**JSP 361**

**JOINT SERVICE HANDBOOK  
OF TENTAGE**

By Command of the Defence Council

*Frank Cooper.*

**MINISTRY OF DEFENCE  
MARCH 1981**

AMENDMENTS

Amendment number	Date of insertion	By whom amended	Amendment number	Date of insertion	By whom amended

DISTRIBUTION

ROYAL NAVY

As authorized by OS (NPS)

ARMY

Regular Army - On demand by units holding the item plus

Ord 3a(2)

DCT

ACA

SCRDE

QAD (S&C)

DSM(A) Control Division

Territorial Army - On demand by units holding the item

ROYAL AIR FORCE

As authorized by APFS

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FOREWORD

1. This handbook should be read in conjunction with the Joint Service Catalogue of Tents, Shelters and Components (JSP 330).
2. The Supplements contain instructions for pitching, striking and packing certain tents/shelters which are in popular demand. These supplements are removable for use in the field and they may be demanded separately.
3. The sponsor of this handbook is the Director of Base Depots (Ord 3) Logistic Executive (Army), Portway, Monxton Road, ANDOVER, Hants, SP11 8HT to whom all queries and recommendations for amendment/improvement should be addressed.



LIST OF SUPPLEMENTS

1. The supplements to JSP 361 are separate publications giving instructions for pitching, striking and packing of a selected range of shelters and tents.
2. Details of those available and those to be published in the future are listed below, which are, or will be available on demand through normal channels by quoting the JSP and supplement number shown.
3. Supplements nos 1 to 20 are for the new range shelters and tents and no 21 onwards are for the old range.

JSP SUPPLEMENT NUMBER	ITEM NAME	NSN
JSP 361/1	Tent General Purpose 7 ft x 9 ft	8340-99-127-5553
JSP 361/2	Shelter Command Post and General Purpose 9 ft x 9 ft Mk 2	8340-99-135-1424
JSP 361/3	Shelter General Purpose ) 12 ft x 12 ft and ) See Note 1 Shelter General Purpose ) 12 ft x 12 ft, Extension )	(8340-99-120-8579 ( (8340-99-135-9601
JSP 361/4	Shelter General Purpose ) 24 ft x 18 ft and ) See Note 1 and Shelter General Purpose ) JSP 361/7 24 ft x 18 ft, Extension )	(8340-99-132-0000 ( (8340-99-135-6217
JSP 361/5	Shelter Mobile Air Movements Section	8340-99-127-6333
JSP 361/6	Tent Mortar, Command Post Operator	8340-99-132-2365
JSP 361/7	Shelter, Straight and Passageway, ) See Shelter, Straight, Extension and ) Note Shelter, 4-Way Connector ) 1 when used in conjunction with:  Shelter General Purpose 24 ft x 18 ft (7.3 m x 5.5 m) (J18340-99-132-0000)  and  Shelter GP 24 ft x 18 ft (7.3 m x 5.5 m) EXTENSION (J18340-99-135-6217)  published in JSP 361/4  to erect a Field Force Medical Unit (FFMU) Shelter Complex	8340-99-130-2183 8340-99-130-2301 8340-99-130-2184
JSP 361/8	Tent Sheet, Arctic	8340-99-138-9093
JSP 361/9	Tent Arctic, 2 Man (UK PATT)	8340-99-132-4183
JSP 361/10	Tent Arctic, 5 Man (UK PATT)	8340-99-132-4513
JSP 361/11	Tent Arctic, 10 Man (UK PATT)	8340-99-132-4514

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JSP 361/21	Tent Marquee, Universal, Store and Tent Marquee, Universal, GS, Single and Store Extension	(8340-99-942-4585 (8340-99-125-2044
JSP 361/22	Tent Marquee, Universal, Hospital and Tent Marquee, Universal, GS, Double and Hospital Extension	(8340-99-942-4586 (8340-99-125-2039

NOTE : 1 The basic principles for pitching, striking and packing the Shelter, Shelter Straight and Shelter 4-Way Connector when used with the Shelter GP 24 ft x 18 ft, as published in JSP 361/7 also apply when used with Shelter GP 12 ft x 12 ft JSP 361/3.

NEW RANGE TENTAGE REPLACING CONVENTIONAL (OLD) RANGE TENTAGE

CONVENTIONAL (OLD) RANGE TENTAGE - to be replaced by - NEW RANGE TENTAGE

Ser	Item	Page	Item	Page
1	Tent Single Pole Type J1/8340-99-120-3002	55	Tent Bivouac (2 man J1/8340-99-120-6699 or with insect screen J1/8340-99-120-8656	23 27
2	Tent Ridge Type J1/8340-99-120-2985	53	Tent GP 7' x 9' J1/8340-99-127-5553	29
3	Tent 80 lbs J1/8340-99-942-4583	59	Shelter GP 12' x 12' J1/8340-99-120-8579	75
4	Tent General Service J1/8340-99-942-4584	31	Shelter GP 12' x 12' J1/8340-99-120-8579	75
5	Shelter Portable No 12 Mk 2 J1/8340-99-120-3743	93	Shelter GP 12' x 12' J1/8340-99-120-8579	75
6	Tent Marquee Universal GS Double J1/8340-99-942-4590	33	Shelter GP 24' x 18' J1/8340-99-132-0000	79
7	Tent Marquee Universal GS Single J1/8340-99-942-4589	37	Shelter GP 24' x 18' J1/8340-99-132-0000	79
8	Tent Marquee Universal Hospital J1/8340-99-942-4586	41	Medical Structure of Shelter 24' x 18' and Shelter 12' x 12' and Passageways See JSP 361/7	79 75 119 123
9	Tent Marquee Universal Operating J1/8340-99-942-4587	45	Shelter GP 24' x 18' J1/8340-99-132-0000	79
10	Tent Marquee Universal Store J1/8340-99-942-4585	49	2 x Shelters GP 24' x 18' J1/8340-99-132-0000	79
11	Shelter RAP Mk 2 J1/8340-99-462-4541	111	2 x Shelters CP and GP 9' x 9' Mk 2 J1/8340-99-135-1424	73
12	Shelter Portable Universal Assembly 'A' J1/8340-99-462-4682	99	Shelter GP 12' x 12' J1/8340-99-120-8579	75
13	Shelter Portable Universal Assembly 'B' J1/8340-99-462-4683	101	Shelter GP 12' x 12' J1/8340-99-120-8579	75
14	Shelter Portable Universal Assembly 'C' J1/8340-99-462-4666	103	Shelter GP 12' x 12' J1/8340-99-120-8579	75

15	Shelter Portable Universal Assembly 'D' J1/8340-99-942-4591	105	2 x Shelter GP 12' x 12' J1/8340-99-120-8579	75
16	Shelter Portable Universal Assembly 'E' J1/8340-99-462-4668	107	2 x Shelter GP 24' x 13' J1/8340-99-132-0000	79
17	Shelter Portable Universal Assembly 'F' J1/8340-99-462-4667	109	Shelter GP 24' x 18' J1/8340-99-132-0000	79

- NOTE 1. By comparison the new range tentage shown is similar in size, lighter in weight and easier to erect than the conventional (old) range shown.
2. The old range tentage will continue to be maintained until such time as present assets are used up, and after this unit entitlements will be replaced by the new range equivalent.

CHAPTER 1

GENERAL INSTRUCTIONS FOR SITING,  
PITCHING, STRIKING AND PACKING

INTRODUCTION

0101. The information given in this chapter is applicable generally to all types of tents and shelters. In some cases it is supplemented by more detailed instructions contained in the supplements to this handbook. All tents and shelters in use are listed in Chapters 3 and 4.

0102. Designs and materials employed for tentage in use by the Services vary considerably. Standardization of design has been achieved to a great extent in the new range of tentage now available. New and improved materials may be incorporated in new production tentage provided they have been approved after extensive experiment and trial.

SITING

0103. When siting tents and shelters the points outlined in the following paragraphs should be observed.

0104. Ground should be as level as possible, avoiding hollows where water would tend to collect during heavy rain.

0105. The ground should also be firm, thus ensuring good hold for pins and poles.

0106. The site should be clear of obstacles such as trees and bushes to avoid the risk of tears in the canvas.

0107. Drainage may be achieved by cutting channels around each tent/shelter where the slope of the ground allows.

0108. Alternatively, the ground should be broken up between the tent pins and tent walls and a small bank of earth built on the inside of the tent wall.

0109. Attention should be paid to the direction of the prevailing wind so that the tent is erected with its entrance located on the side away from the wind. Consideration should also be given towards minimizing the area exposed to the wind.

PITCHING (Tents)

0110. The number of personnel required for erecting varies according to the size and type of tent.

0111. The pitching space should be marked out as shown on the ground plan provided.

0112. The valise or bundle containing the tent canvas should be carried as near as possible to the pitching site. The canvas should be prepared as follows:

- a. Open canvas and lay out with outside uppermost.
- b. Fit canvas sections together.
- c. Lace sections together and tie.

0113. Tent poles should be fitted together and inserted into the prepared canvas.

0114. Weather lines (if provided) should be fitted to the tent and tied to their respective tent pins before erecting the tent.

0115. When pegging out the tent the following points should be observed:

- a. Pins for tent lines should be driven well into the ground at an angle approximately 60 degrees from ground level.
- b. Notches on tent pins should face outwards.
- c. For ease of driving the pins into the ground and to obtain the correct angle, personnel should stand on the tent side of the pins and face outwards.
- d. Avoid unequal strain on the canvas by ensuring that:
  - (1) bracing lines follow the lines of the canvas seams, and
  - (2) that the angle of each bracing line conforms to the slope of the tent roof.

#### PITCHING (Shelters)

0116. When fitting the alloy frame together and during the erection of the shelter, care must be exercised to avoid distortion to the frame and components.

0117. The shelter canvas must be well ballasted since the weather lines are kept to a minimum. Sandbags or similar flexible containers filled with spoil from the drainage trench are suitable for this purpose.

0118. Filled sandbags are recommended as movable ballast for door ends in frequent use.

0119. The weather lines should be fitted to the shelter as shown in the ground plan.

#### STRIKING (Tents)

0120. Considerable damage can be caused to tentage during striking unless the operation is properly supervised and carried out with care. The precautions outlined in the following paragraphs should be observed.

0121. Ensure that all articles have been removed from the tent.



0122. Check that the tent poles are free from nails as these will tear the canvas during striking.

0123. Remove detachable walls and awning before attempting to lower the tent.

0124. Ensure that there are sufficient personnel in position to lower the tent under adequate control.

0125. Endeavour to lower the tent against the wind as this gives greater control.

0126. When lowering large tents take especial care to lower the upright poles in a straight line without veering sideways; otherwise the metal spikes on the tops will be bent and damaged.

0127. Do not strike tents while they are wet unless this is unavoidable. All canvas must be dry before storing because wet canvas rots.

#### STRIKING (Shelters)

0128. Generally, the methods for striking framed shelters are the reverse of erecting.

0129. Remove detachable windows before striking.

0130. Remove ballast from the canvas skirt but do not lift the skirting to tip off the ballast.

0131. Take care not to distort the alloy frame.

0132. If possible, avoid striking when the canvas is wet. Canvas must be dry before storage.

#### PACKING

0133. After striking tents and shelters the canvas must be folded. The ground used for spreading the canvas for folding must be free from oil or any substance that would cause damage.

0134. Mud should be brushed off the canvas which will be packed in valises after folding. If valises are not provided, the canvas should be folded to the smallest possible bundle and tied with stout string or rope.

0135. Canvas struck when damp must be labelled clearly 'NOT DRY' and each canvas must bear this label.

0136. If the canvas is being retained on the camp site, the officer in charge should be notified of the condition of the tentage so that he can arrange for it to be dried at the earliest opportunity.

0137. If the tents and shelters are to be dispatched, the consignee must be notified by telephone or signal if any of the consignment is wet. The consignee will unpack and dry the canvas as soon as possible. It must not be stored until this has been done.

0138. All ropes and lines should be coiled neatly and tied, where necessary, to prevent them uncoiling.

0139. Tent pins should be taken up, mud cleaned off, and packed in their appropriate bags.

0140. Poles should be tied into bundles.

0141. Mallets and other accessories must be packed.

0142 to 0200. Reserved.

CHAPTER 2  
CARE OF TENTS AND SHELTERS

GENERAL

0201. The life of tentage can be enhanced considerably if reasonable care is taken whilst in use or in store. Such care will also help to minimize charges which may be raised against units when returning tentage to the RAOC.

CAUSES OF DAMAGE TO CANVAS

0202. Common causes of damage to the canvas of tents and shelters are listed in the following paragraphs.

0203. Burns due to careless smoking, or siting tents and shelters near braziers or incinerators.

0204. Holes due to careless pitching, stacking or stowage of articles too close to tent walls. When tents and shelters are used for storage, stacks should be approximately 60 mm (2 ft) from the walls and should not touch the canvas at any point. (Gangways are essential in case of fire.)

0205. Splits in the canvas can be caused through overtaut tent lines. In wet weather tent lines must be slackened.

0206. Tears in canvas may occur during striking if nails are left in tent poles.

0207. Damage to the fabric may occur as the result of folding canvas when wet, or on ground contaminated by oil etc.

0208. Similarly, fabric may be damaged when tents and shelters are used as butchers' shops or ration stores if the blood from meat, or grease from butter or other fats, comes into contact with the canvas. Meat benches or tables used for breaking down or issue of rations should be kept clear of the canvas.

0209. Grease or oil on the hands or clothing of personnel handling or using tentage will cause damage if in contact with the canvas.

0210. Care must be exercised when loading tentage into vehicles to obviate damage to the canvas through contact with projection on the vehicles.

0211. Vehicles must be examined before loading to check for dirty interiors and any oily or dirty items. Unless they can be cleaned adequately before loading tentage, such vehicles should not be employed.

0212. In overseas theatres, where white ants or other fabric destroying insects are prevalent, canvas walls should not be left in contact with the ground for long periods unless the canvas is proofed against this hazard. In long term tented camps frequent inspections of canvas should be made.

0213. When joining a number of tents together, care should be taken to avoid abnormal strain being placed on ridge ends, doorways, etc, which might injure the canvas.

0214. When detachable windows are fitted into the canvas of shelters they should be removed before striking, and packed.

#### EFFECTS OF DAMP

0215. Wet or damp canvas deteriorates rapidly. If stored in this condition it is liable to catch fire due to spontaneous combustion.

0216. All canvas must be thoroughly dry before storing. Stacks should be examined periodically and any damp or suspect canvas removed and examined immediately.

0217. Storehouses employed for storing tentage should be inspected regularly for leaking roofs.

0218. Tent lines and ropes should be dry before storing.

#### DAMAGE TO POLES AND FRAMES

0219. The main causes of damage to tent poles and shelter frames are summed up in the following paragraphs.

0220. Distortion of alloy frames of shelters through misuse and carelessness. ie using the alloy poles as bearers or levers, or permitting components to lie about where they can be run over by vehicles.

0221. The use of excessive force when fitting frame components together. Care should be taken to ensure that the hollow ends of components are not blocked by dirt.

0222. Employing too few men when striking tentage so that insufficient control is exercised over the rate and direction of descent.

#### REPAIR

0223. Damaged tents or shelters should not be used.

0224. If damage occurs after erection it should be repaired in situ if qualified personnel are available.

0225. Should it not be possible to repair locally the tentage should be taken out of use and returned to RAOC for repair.

#### REPROOFING

0226. A waterproofing agent Mystox W6070/29 is available for the renovation of conventional (old range) and new range tentage. This is a preservative coating waterproof, flameproof, rotproof emulsion olive drab water solvent, which is available on demand from DSM(A) Bicester under catalogue number H1/8030-99-224-9041 Mystox.

0227. Directions for the correct handling and application of the preservative are given below:

0228. Health hazard. Although Mystox has been approved by the Health and Safety Executive it contains toxic substances which would be an irritant to skin and eyes or cause illness if swallowed in large quantities.

0229. The other potential problem is the contamination of ponds, ditches, or waterways which might harm fish and other natural life.

0230. Protective clothing. Protective gloves, aprons and goggles are to be worn when using Mystox. The following types of protective clothing are available to Army units and are suitable for the purpose. Similar items are available within the stores ranges of other Service users.

a. Gloves

- (1) CH 8415-99-571-3359/62 Rubber Acid/Alk Res, Yellow
- (2) CH 8415-99-571-3354/56 PVC Work Type Red
- (3) CH 8415-99-975-7207/10 Rubber Acid/Alk Res, industrial
- (4) CH 8415-99-975-7239/42 Rubber Acid/Alk Res, electrician
- (5) CH 8415-99-975-7260/67 Rubber Acid/Alk Res, industrial

b. Aprons

- (1) CH 8415-99-132-2937 OD Nylon polythene coated
- (2) CH 8415-99-125-3405 Black coated synthetic rubber both sides

c. Goggles

- (1) CC 4240-99-138-6633 Goggles industrial

Units which do not have sufficient quantities of the above items to equip a four to six man unit reproofing team should demand items a(1), b(1) and c(1) from DSM(A) Bicester. Such a team should be sufficient to reproof a battalion's entitlement of new range tents and shelters.

0231. User instructions. The following paragraphs give directions and advice on the use of Mystox:

- a. The emulsion is to be applied only with a paint brush. Spray painting is forbidden.
- b. The emulsion should be well stirred and look like ordinary emulsion paint. If it thickens during application it should be thinned by adding a small quantity of water.

- c. Under cold conditions it may be necessary to stir for a longer period than under warm conditions.
- d. The emulsion should be stored in a temperature that does not fall below 0 °C. If after extended storage it can be applied with a brush without 'balling' or curdling it should perform satisfactorily.
- e. Only those parts of the tent which leak (ie most worn areas) should be treated.
- f. If in spite of wearing protective clothing, any Mystox comes into contact with the skin the affected area should be washed immediately with water.
- g. Disposal of surplus paint and empty containers must be organized by the unit quartermaster in accordance with the local public health by-laws and advice of local authorities must be sought as regulations may vary from area to area.
- h. Drying time, with good drying conditions, is between seven and eight hours. However, to ensure that the emulsion is absolutely dry, whenever possible drying should be extended over 24 hours in a warm dry atmosphere.
- j. Application can be made on to a damp canvas if necessary. In such a case, extra care with drying is essential.
- k. Mystox is issued in 25 kg and 50 kg containers and when it necessary to decant the liquid into smaller containers these are to be suitably labelled and treated for disposal as the original containers.
- l. It is advisable, whenever practicable, to reproof tents and shelters whilst they are erected and to leave them standing until they are completely dry. This of course will be difficult for the larger shelters which may have to have their roofs proofed prior to erection. Alternatively, a brush on an extended handle can be used in such cases.
- m. After use all protective clothing items are to be scrubbed in soapy water and then thoroughly rinsed to aid the removal of residual deposits of the reproofing agents.
- n. Hands should be washed thoroughly and nails scrubbed with warm soapy water.
- o. Mystox emulsion paint dries quite hard, and provided that it is allowed to dry sufficiently, no problem of sticking (tackiness) should occur.

0232. Labelling of Mystox containers. In addition to the requirement imposed by the Health and Safety Executive, the manufacturers have agreed to label containers drawing the attention of Service personnel to the need to wear protective clothing and for surplus paint and empty containers to be disposed of only on the instructions of unit quartermasters. Units are to ensure that any temporary containers are treated in the same way.

CHAPTER 3

TENTS

INTRODUCTION

0301. The information contained in the pages of this chapter gives the title, catalogue number, purpose and basic data of each tent in service, together with illustrations.

0302. The order in which they are listed corresponds to the Joint Service Catalogue of Tents, Shelters and Components (JSP 330).

0303. Pitching, striking and packing instructions for those tents most frequently in use are to be found in the List of Supplements. Spare copies of these supplements may be demanded separately.

0304 to 0400 Reserved

TENT, ARCTIC, 2 MAN



5791-1

Fig 1



TENT, ARCTIC, 2 MAN

**Catalogue no:** J1/8340-99-419-7391

**Purpose:** A tent to provide accommodation for two men in an Arctic environment. For RN use only DGST(N) 31A/2 supply.

**Description:** A tent supported by four sectional light alloy poles. The cover is made from a polyester fabric. It has a built-in ground sheet made from PVC coated nylon.

**Dimensions:** 2.1 m ( 7 ft) long, 1.2 m (4 ft) wide  
1.2 m (4 ft) high

**Floor area:** 2.6 m<sup>2</sup> (28 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles and pins 5.8 kg (13 lb)

**Packed size:** 0.05 m<sup>3</sup> (2 ft<sup>3</sup>)

**Erection:** 1 man 10 minutes

**Striking:** 1 man 10 minues

**Accessories:**  
Pitching,  
striking and  
packing  
instructions:

TENT, ARCTIC 2 MAN (UK PATTERN)



5686-1

Fig 2

TENT, ARCTIC 2 MAN (UK PATTERN)

**Catalogue no:** J1 8340-99-132-4183

**Purpose:** A tent to provide accommodation for two men in an arctic environment.

**Description:** A tent supported by four sectional light alloy poles. The cover is made from a polyester fabric. It has a white liner, an insect screen attached inside the tunnel entrance and a built-in ground sheet.

**Dimensions:** 2.8 m (9 ft) long, 1.3 m (4 ft 3 in) wide, 1.2 m (4 ft) high

**Floor area:** 2.6 m<sup>2</sup> (28 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles and pins 6.8 kg (15 lb)

**Packed size:** 0.05 m<sup>3</sup> (2 ft<sup>3</sup>)

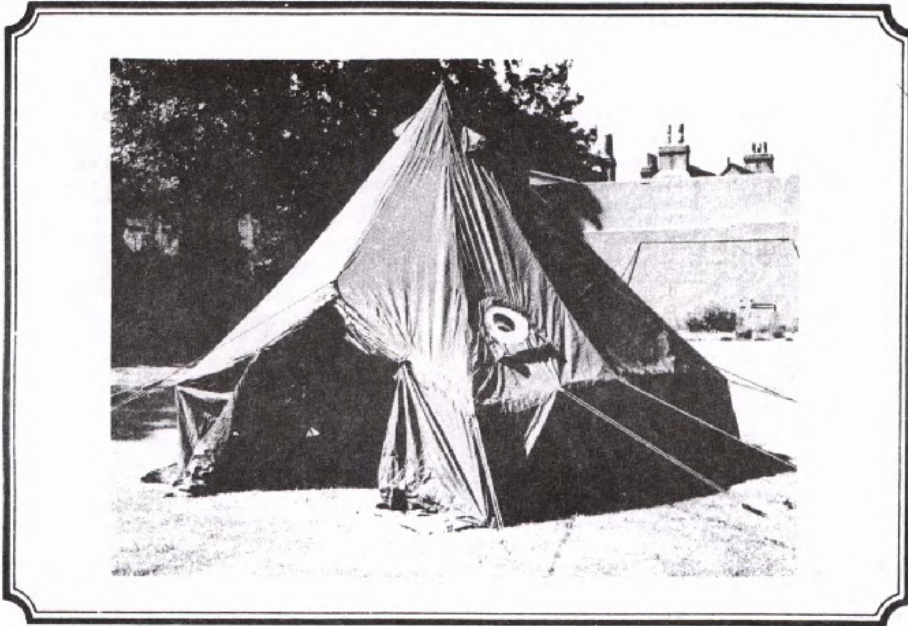
**Erection:** 2 men 10 minutes

**Striking:** 2 men 5 minutes

**Accessories:**

Pitching,  
striking and  
packing  
instructions: Supplement JSP 361/9

TENT, ARCTIC 5 MAN  
(CANADIAN PATTERN)



5799-1

Fig 3

TENT, ARCTIC 5 MAN  
(CANADIAN PATTERN)

**Catalogue no:** J1 8340-21-108-0072

**Purpose:** Personal accommodation for five men in a cold climate.

**Description:** A five sided pyramid tent supported by a light alloy telescopic centre pole. The cover is made from a cotton water repellent material. It has a white nylon detachable liner.

**Dimensions:** 3.5 m (11 ft 9 in) wide, 2.5 m (8 ft 4 in) high, 0.6 m (2 ft) wall

**Floor area:** 9.29 m<sup>2</sup> (100 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles and pins 31.7 kg (70 lb)

**Packed size:** 0.1 m<sup>3</sup> (3.75 ft<sup>3</sup>)

**Erection:** 5 men 20 minutes

**Striking:** 5 men 15 minutes

**Accessories:**  
Pitching,  
striking and  
packing  
instructions:

**Remarks:** Superseded by J1 8340-99-132-4513 described on page 17.

TENT, ARCTIC 5 MAN (UK PATTERN)



5953-1

Fig 4

TENT, ARCTIC 5 MAN (UK PATTERN)

**Catalogue no:** J1 8340-99-132-4513

**Purpose:** Personal accommodation for five men in a cold climate.

**Description:** A rectangular ridge tent with walls and bell ends. Supported by 'A' poles at each end. The cover is made from polyester/cotton fabric which is water and rot resistant. The liner is of white plain weave heat resistant nylon material

**Dimensions:** 3.36 m (11 ft) long, 2.64 m (8 ft 6 in) wide, 1.92 m (6 ft 3 in) high

**Floor area:** 10.5 m<sup>2</sup>

**Weight:** Inclusive of canvas, poles, pins, etc 26.53 kg (58.5 lb)

**Packed size:** 0.4 m<sup>3</sup>

**Erection:** 2 men 15 minutes

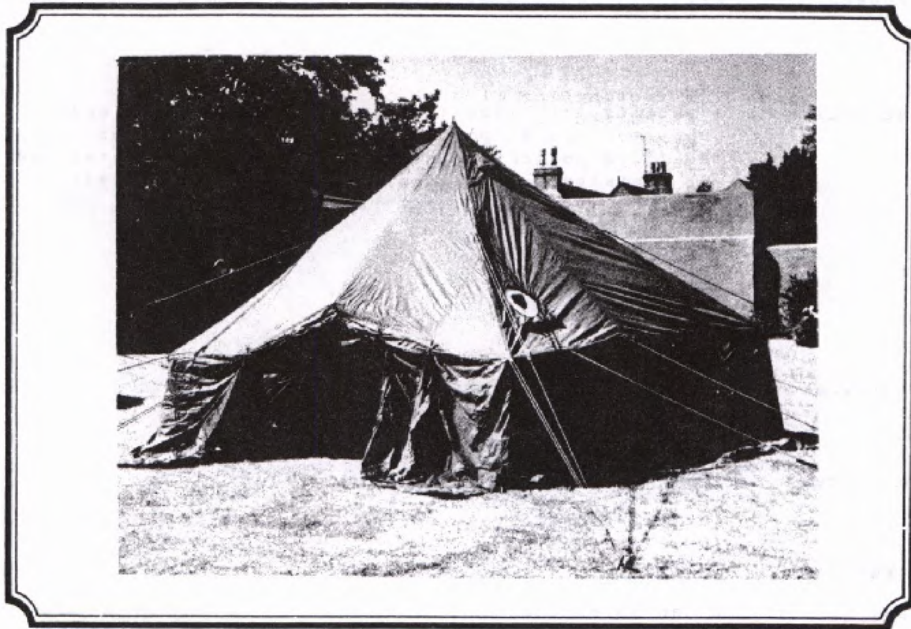
**Striking:** 2 men 5 minutes

**Accessories:**

**Pitching, striking and packing instructions:** Supplement JSP 361/10

**Remarks:** Supersedes J1 8340-21-108-0072 described on page 15.

TENT, ARCTIC 10 MAN  
(CANADIAN PATTERN)



5792-2

Fig 5



TENT, ARCTIC, 10 MAN  
(CANADIAN PATTERN)

**Catalogue no:** J1 8340-21-108-0073

**Purpose:** Personal accommodation for 10 men in a cold climate.

**Description:** A five sided pyramid tent supported by a light alloy centre pole. The cover is made from a cotton water repellent material. It has a white nylon detachable liner.

**Dimensions:** 4.9 m (16 ft 2 in) wide, 2.59 m (8 ft 6 in) high, 0.6 m (2 ft) wall

**Floor area:** 16 m<sup>2</sup> (175 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles and pins 38.5 kg (85 lb)

**Packed size:** 0.14 m<sup>3</sup> (5 ft<sup>3</sup>)

**Erection:** 5 men 20 minutes

**Striking:** 5 men 15 minutes

**Accessories:**

**Pitching, striking and packing instructions:**

**Remarks:** Superseded by J1 8340-99-132-4514 described on page 21



5952-1

Fig 6

TENT, ARCTIC, 10 MAN (UK PATTERN)

**Catalogue no:** J1 8340-99-132-4514

**Purpose:** Personal accommodation for 10 men in a cold climate.

**Description:** A rectangular ridge tent with walls. Supported by two upright poles and a ridge pole. The cover is made of polyester/cotton fabric which is water and rot resistant. The liner is of white plain weave heat resistant nylon material.

**Dimensions:** 3.5 m long, 4 m wide, 2.3 m high

**Floor area:** 14 m<sup>2</sup>

**Weight:** Inclusive of canvas, poles and pins 40.82 kg (90 lb).

**Packed size:** 14 m<sup>3</sup>

**Erection:** 2 men 20 minutes

**Striking:** 2 men 15 minutes

**Accessories:**

**Pitching, striking and packing instructions:** Supplement JSP 361/11

**Remarks** Supersedes J1 8340-21-108-0073 described on page 19

TENT BIVOUC



3388-7

Fig 7

TENT BIVOUAC

**Catalogue no:** J1 8340-99-120-6699

**Purpose:** Bivouac for two men

**Description:** A ridge tent supported by two upright poles. The cover is made of olive drab cotton duck material.

**Dimensions:** 2.1 m (7 ft) long, 1.8 m (6 ft) wide, 0.9 m (3 ft) high.

**Floor area:** 3.6 m<sup>2</sup>

**Weight:** Inclusive of canvas, poles, pins etc 5.5 kg (12 lb)

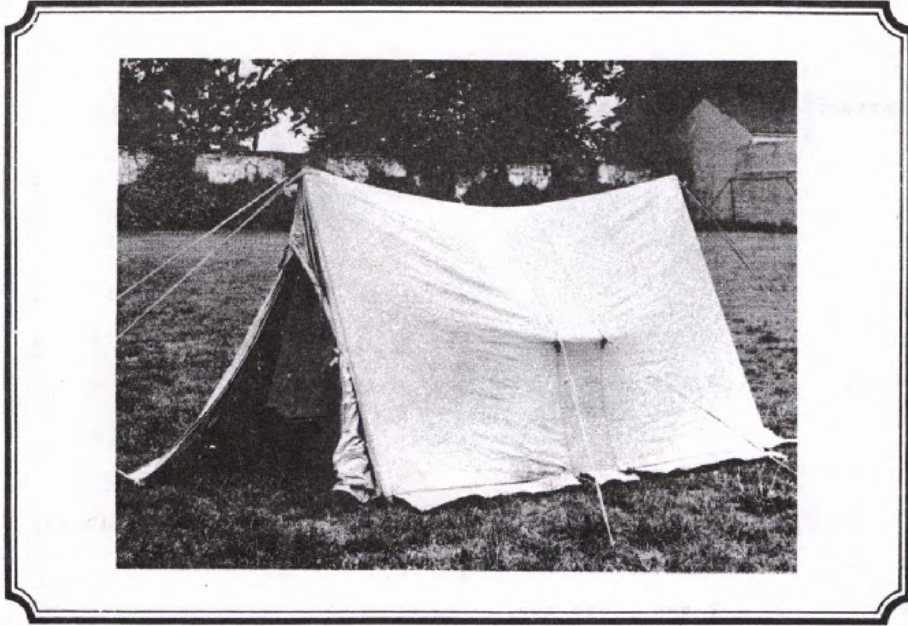
**Packed size:** 0.04m<sup>3</sup>

**Erection:** 2 men 5 minutes

**Striking:** 2 men 5 minutes

**Accessories:** Mallet

**Pitching,  
striking and  
packing  
instructions:**



5800-1

Fig 8

TENT, BIVOUAC, ARCTIC

**Catalogue no:** J1 8340-99-125-2045

**Purpose:** To accommodate two men in an arctic environment.  
For RAF Survival packs - Issued to RAF only.

**Description:** An 'A' framed at the front and single pole at the back (wood poles) covered with a polyester/cotton water repellent fabric. It has a built-in ground sheet made from polyurethane coated material.

**Dimensions:** 2 m (6 ft 6 in) long, 1.5 m (5 ft) wide, 0.9 m (3 ft) high

**Floor area:** 3.0 m<sup>2</sup> (32.5 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins etc 5.8 kg (13 lb)

**Packed size:** 0.04 m<sup>3</sup> (1.5 ft<sup>3</sup>)

**Erection:** 2 men 10 minutes

**Striking:** 2 men 10 minutes

**Accessories:**

Pitching, striking and packing instructions:

TENT, BIVOUAC, WITH INSECT SCREEN



3388-10

Fig 9



TENT, BIVOUCAC, WITH INSECT SCREEN

Catalogue no: J1 8340-99-120-8656

Purpose: 2 man bivouac

Description: A two pole bivouac for two men. The cover is fitted with a netting curtain.

Dimensions: 2.1 m (7 ft) long, 1.8 m (6 ft) wide,  
0.9 m (3 ft) high

Floor area:  $3.9 \text{ m}^2$  (42 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins etc 9.5 kg (21 lb)

Packed size:  $0.04 \text{ m}^3$  (1.5 ft<sup>3</sup>)

Erection: 1 man 10 minutes

Striking: 1 man 5 minutes

Accessories: Mallet

Pitching,  
striking and  
packing  
instructions:

TENT, GENERAL PURPOSE  
2.1 m x 2.7 m ( 7 ft x 9 ft)



3164-1

Fig 10

TENT, GENERAL PURPOSE  
2.1 m x 2.7 m (7 ft x 9 ft)

**Catalogue no:** J1 8340-99-127-5553

**Purpose:** To provide a small command post shelter or, alternatively, accommodation for two men.

**Description:** A ridge tent supported by light alloy 'A' poles. The cover, manufactured from a corespun cotton covered polyester duck fabric, is of ripstop construction. The fabric has a FWR (flame resistant, water repellent, rot resistant) finish.

**Dimensions:** 2.1 m (7 ft) long, 2.7 m (9 ft) wide  
2 m (6 ft 6 in) high

**Floor area:** 5.8 m<sup>2</sup> (63 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins etc 13.1 kg (29 lb)

**Packed size:** 0.12 m<sup>3</sup> (4.5 ft<sup>3</sup>)

**Erection:** 2 men 5 minutes

**Striking:** 2 men 5 minutes

**Accessories:** Hammer

**Pitching, striking and packing instructions:** Supplement JSP 361/1



2552-16

Fig 11

TENT, GENERAL SERVICE, MK 2

**Catalogue no:** J1 8340-99-942-4584

**Purpose:** General purpose accommodation

**Description:** A ridge tent with flysheet. Height of walls  
0.76 m (2 ft 6 in)

**Dimensions:** 4.3 m (14 ft) long, 4.3 m (14 ft) wide,  
2.1 m (7 ft) high

**Floor area:** 18.2 m<sup>2</sup> (196 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 73.5 kg  
(162 lb)

**Packed size:** 0.5 m<sup>3</sup> 17 ft<sup>3</sup>)

**Erection:** 6 men 25 minutes

**Striking:** 6 men 15 minutes

**Accessories:** Mallet

**Pitching,  
striking and  
packing  
instructions:**

TENT, MARQUEE, UNIVERSAL, GS, DOUBLE



3388-5

Fig 12

TENT, MARQUEE, UNIVERSAL, GS, DOUBLE

**Catalogue no:** J1 8340-99-942-4590

**Purpose:** A general service tent

**Description:** A two pole marquee with roof liner and detachable walls. Extendible in length by units of 2.7 m (9 ft) using the extension 8340-99-125-2039 described on page 35

**Dimensions:** 8.2 m (27 ft) long, 5.9 m (19 ft 6 in) wide, 3.8 m (12 ft 6 in) high

**Floor area:** 43.5 m<sup>2</sup> (468 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 372.4 kg (821 lb)

**Packed size:** 1.2 m<sup>3</sup> (43 ft<sup>3</sup>)

**Erection:** 10 men 1 hour

**Striking:** 10 men 30 minutes

**Accessories:** Mallets

**Pitching, striking and packing instructions:**

TENT, MARQUEE, UNIVERSAL, GS, DOUBLE AND HOSPITAL  
EXTENSION

No illustration as the item simply extends the length  
of:

- a. The Tent, Marquee, universal, GS, double,  
illustrated on page 32.
- b. The Tent, Marquee, universal, hospital,  
illustrated on page 40.
- c. The Tent, Marquee, universal, operating  
illustrated on page 44.

Fig 13



TENT, MARQUEE, UNIVERSAL, GS, DOUBLE AND HOSPITAL  
EXTENSION

**Catalogue no:** J1 8340-99-125-2039

**Purpose:** Extension unit to increase Tent, Marquee, universal, GS, double and hospital by lengths of 2.7 m (9 ft). Also, for extension of Tent, Marquee, universal, operating, other than initial extension.

**Description:** Roof and wall sections complete with liners.

**Dimensions:** 2.7 m (9 ft) long, 5.9 m (19 ft 6 in) wide

**Floor area:** 124.73 kg (275 lbs)

**Weight:**

**Packed size:**

**Erection:**

**Striking:**

**Accessories:**

**Pitching,  
striking and  
Packing  
instructions:**

TENT, MARQUEE, UNIVERSAL, GS, SINGLE



2552-26

Fig 14

TENT, MARQUEE, UNIVERSAL, GS, SINGLE

**Catalogue no:** J1 8340-99-942-4589

**Purpose:** For use as a store, dining room or for quartering personnel.

**Description:** A two pole marquee with detachable wall sections. Extendible in length by units of 2.7 m (9 ft) using the extension 8340-99-125-2044 described on page 36.

**Dimensions:** 8.2 m (27 ft) long, 5.9 m (19 ft 6 in) wide, 3.8 m (12 ft 6 in) high

**Floor area:** 43.5 m<sup>2</sup> (468 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 324 kg (715 lb)

**Packed size:** 1 m<sup>3</sup> (35 ft<sup>3</sup>)

**Erection:** 10 men 1 hour

**Striking:** 10 men 30 minutes

**Accessories:** Mallets

**Pitching, striking and packing instructions:**

TENT, MARQUEE, UNIVERSAL, GS SINGLE AND STORE  
EXTENSION

No illustration as the item simply extends the length of:

a. The tent, Marquee, universal, GS, single  
illustrated on page 37

and

b. The Tent, Marquee, universal, store, illustrated  
on page 48

Fig 15

TENT, MARQUEE, UNIVERSAL, GS SINGLE AND STORE  
EXTENSION

**Catalogue no:** J1 8340-99-125-2044

**Purpose:** Extension unit to increase Tent, Marquee, universal, GS single and store by lengths of 2.7 m (9 ft)

**Description:** Roof and wall sections.

**Dimensions:** 2.7 m (9 ft) long, 5.9 m (19 ft 6 in) wide

**Floor area:**

**Weight:** 113.4 kg (250 lbs)

**Packed size:**

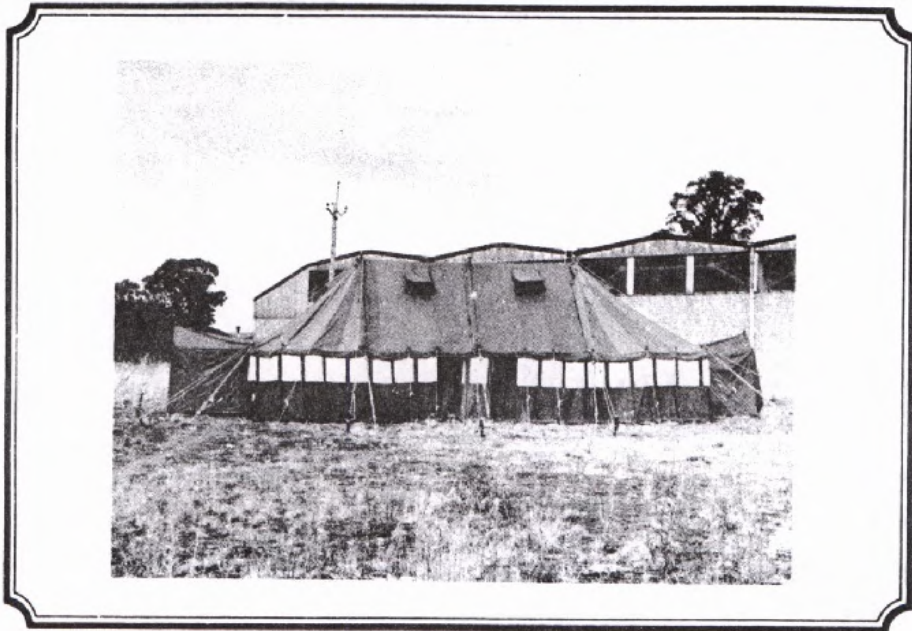
**Erection:**

**Striking:**

**Accessories:**

**Pitching,  
striking and  
packing  
instructions:**

TENT, MARQUEE UNIVERSAL  
HOSPITAL



3388-2

Fig 16

TENT, MARQUEE UNIVERSAL  
HOSPITAL

**Catalogue no:** J1 8340-99-942-4586

**Purpose:** Hospital tent

**Description:** A three pole ridge tent with walls (1.6 m (5 ft 4 in) high. A roof inner is fitted. Extendible in length by units of 2.7 m (9 ft) by using the extension 8340-99-125-2039 described on page 21.

**Dimensions:** 10.9 m (36 ft) long, 5.9 m (19 ft 6 in) wide, 3.8 m (12 ft 6 in) high.

**Floor area:** 65.2 m<sup>2</sup> (702 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 656.8 kg (1448 lb).

**Packed size:** 2.2 m<sup>3</sup> (80 ft<sup>3</sup>)

**Erection:** 12 men 1 hour

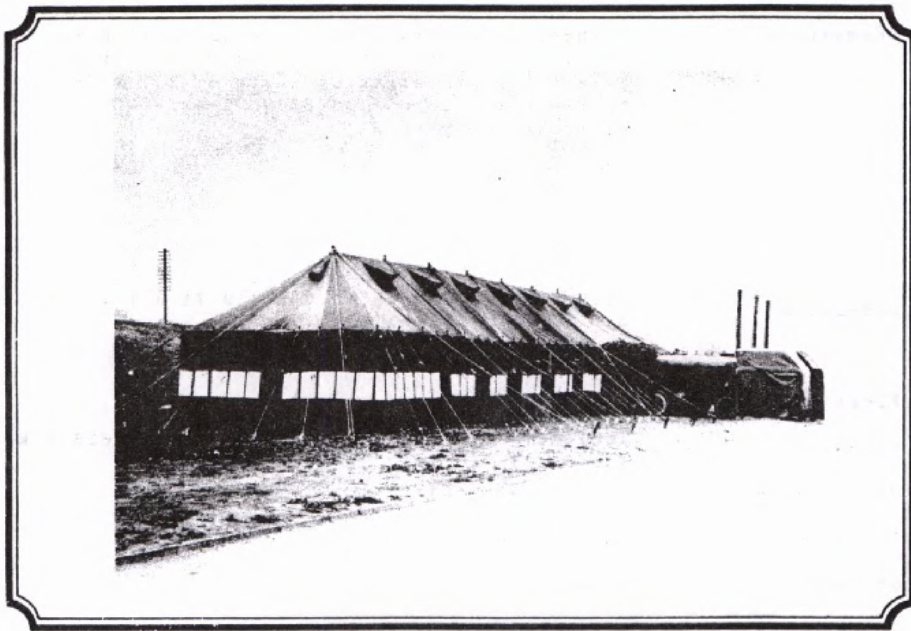
**Striking:** 12 men 45 minutes

**Accessories:** Mallets

**Pitching, striking and packing instructions:** Supplement JSP 361/22

**Associated equipment:** Floor covering, canvas waterproof. Issued on MOD authority only.

TENT, MARQUEE UNIVERSAL,  
MOBILE BAKERY



2080-1

Fig 17



TENT, MARQUEE, UNIVERSAL,  
MOBILE BAKERY

**Catalogue no:** J1 8340-99-942-4588

**Purpose:** Mobile bakery for use in the field.

**Description:** An eight pole marquee with 2.4 m (8 ft) high walls and a ridge height of 4.7 m (15 ft 6 in). Extendible in length by units of 2.7 m (9 ft) by using the extension.

**Dimensions:** 24.7 m (81 ft) long, 5.9 m (19 ft 6 in) wide, 4.7 m (15 ft 6 in) high

**Floor area:** 146.6 m<sup>2</sup> (1579 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins etc 613.2 kg (2353 lb)

**Packed size:** 3.9 m<sup>3</sup> (138.5 ft<sup>3</sup>)

**Erection:** 30 men 6 hours

**Striking:** 30 men 4 hours

**Accessories:** Mallets

**Pitching, striking and packing instructions:**

**Special eqpt:** Mobile ovens

**Associated eqpt:** Shelter, portable, universal, assembly 'D' 8340-99-942-4591 described on page 105



1265

Fig 18

TENT, MARQUEE UNIVERSAL, OPERATING

**Catalogue no:** J1 8340-99-942-4587

**Purpose:** Hospital operating theatre

**Description:** A centre pole tent with detachable walls 1.6 m (5 ft 4 in) high. An inner roof liner is fitted. Two porchways are provided. Extendible in length by units of 2.7 m (9 ft) using as the initial extension 8340-99-125-2043 described on page 47 and 8340-99-125-2039 described on page 35 for subsequent extensions.

**Dimensions:** 5.5 m (18 ft) long, 5.9 m (19 ft 6 in) wide, 3.8 m (12 ft 6 in) high.

**Floor area:** 33.4 m<sup>2</sup> (360 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 356 kg (785 lb)

**Packed size:** 1.2 m<sup>3</sup> (42 ft<sup>3</sup>)

**Erection:** 9 men 45 minutes

**Striking:** 9 men 30 minutes

**Accessories:** Mallets

**Pitching, striking and packing instructions:**

**Associated eqpt:** Floor covering, canvas waterproof. Issued on MOD authority only.

TENT, MARQUEE, UNIVERSAL, OPERATING  
EXTENSION

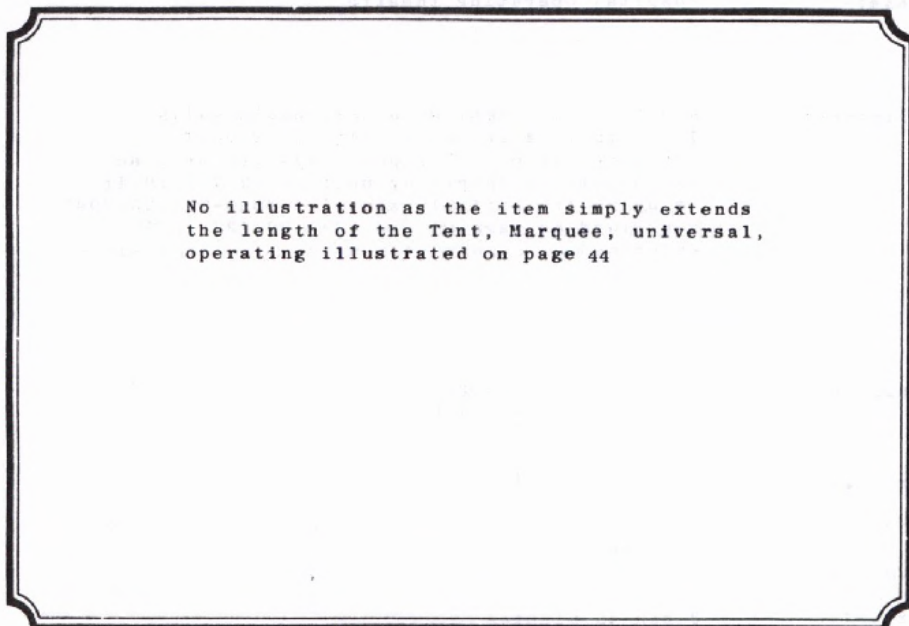


Fig 19

TENT, MARQUEE, UNIVERSAL, OPERATING  
EXTENSION

**Catalogue no:** J1 8340-99-125-2043

**Purpose:** Initial extension unit to increase Tent, Marquee, universal, operating by unit of 2.7 m (9 ft). Any subsequent extension can be effected by using J1 8340-99-125-2039.

**Description:** Roof and wall sections complete with liners.

**Dimensions:** 2.7 m (9 ft) long, 5.9 m (19 ft 6 in) wide

**Floor area:**

**Weight:** 124.73 kg (275 lb )

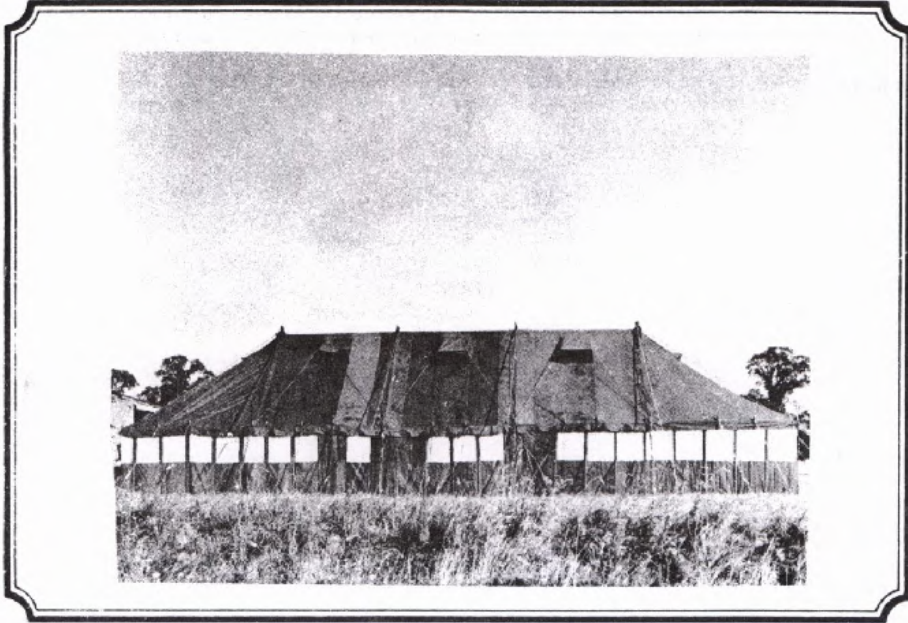
**Packed size:**

**Erection:**

**Striking:**

**Accessories:**

**Pitching,  
striking and  
packing  
instructions:**



3388-14

Fig 20

TENT, MARQUEE, UNIVERSAL, STORE

**Catalogue no:** J1 8340-99-942-4585

**Purpose:** A store tent

**Description:** A four pole marquee with detachable wall sections. It is extendible in length by units of 2.7 m (9 ft) by using the extension 8340-99-125-2044 described on page 39

**Dimensions:** 13.7 m (45 ft) long, 5.9 m (19 ft 6 in) wide, 3.8 m (12 ft 6 in) high

**Floor area:** 81.5 m<sup>2</sup> (877.5 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 506.6 kg (1117 lb)

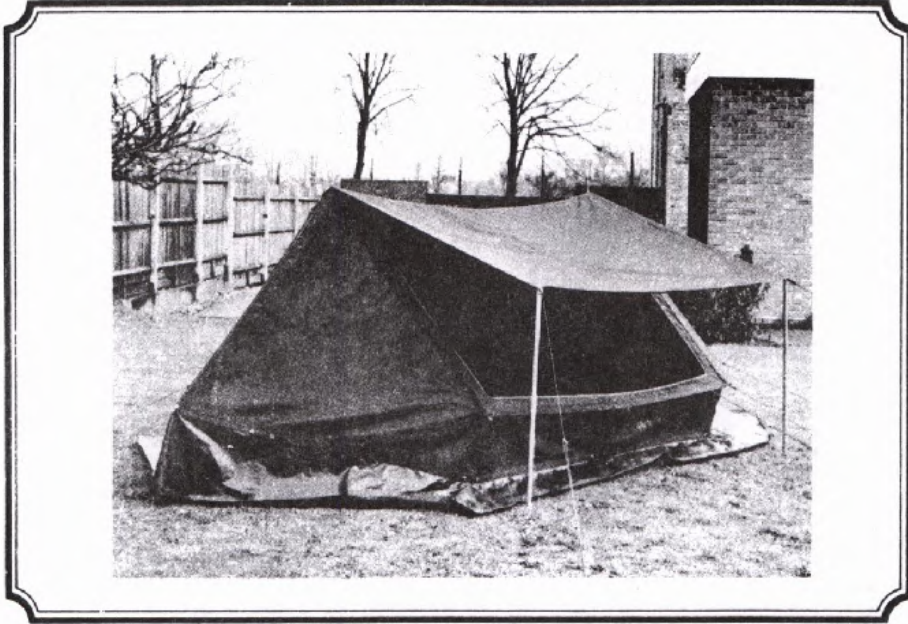
**Packed size:** 1.4 m<sup>3</sup> (50 ft<sup>3</sup>)

**Erection:** 30 men 1 hour

**Striking:** 30 men 45 minutes

**Accessories:** Mallets

**Pitching, striking and packing instructions:** Supplement JSP 361/21



3975-6

Fig 21



TENT, MORTAR, CPO

Catalogue no: J1 8340-99-132-2365

Purpose: A tent for the 81 mm Mortar Plotter operator

Description: A tent supported by two light alloy poles. The roof on one side can be fastened in the open or closed position. The cover is manufactured from a corespun cotton covered polyester duck fabric of ripstop construction. The fabric has a water and rot resistant finish.

Dimensions: 2.6 m (8 ft 6 in) long, 1.5 m (5 ft) wide,  
1.2 m (4 ft) high

Floor area: 3.9 m<sup>2</sup> (42 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins, etc 5.4 kg (12 lb)

Packed size: 0.4 m<sup>3</sup> (1.33 ft<sup>3</sup>)

Erection: 2 men 5 minutes

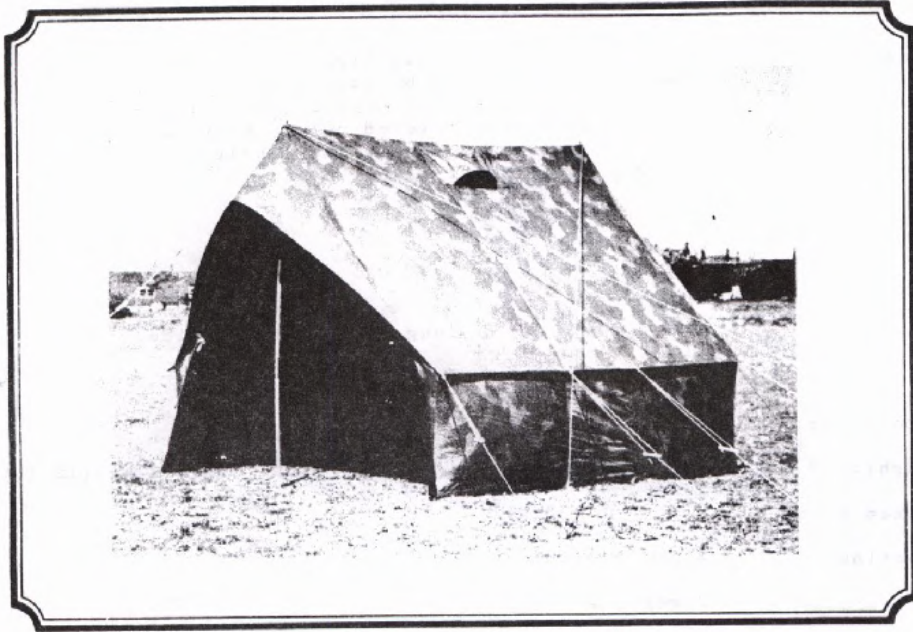
Striking: 2 men 5 minutes

Accessories:

Pitching,  
striking and  
packing

instructions: Supplement JSP 361/6

TENT, RIDGE TYPE



732

Fig 22

TENT, RIDGE TYPE

Catalogue no: J1 8340-99-120-2985

Purpose: Lightweight accommodation

Description: A ridge tent with one piece cover. Walls 0.76 m (2 ft 6 in) high.

Dimensions: 2.2 m (7 ft 4 in) long, 2.3 m (7 ft 8 in) wide, 1.8 m (6 ft) high

Floor area: 5.2 m<sup>2</sup> (56 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins, etc 9 kg (20 lb)

Packed size: 0.07 m<sup>3</sup> (2.5 ft<sup>3</sup>)

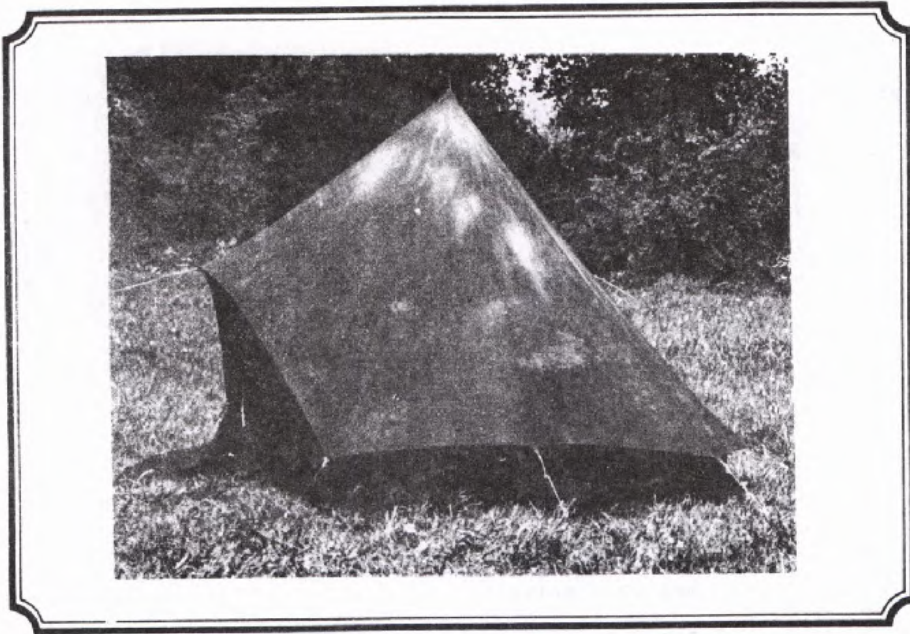
Erection: 2 men 10 minutes

Striking: 2 men 5 minutes

Accessories:

Pitching,  
striking and  
packing  
instructions:

TENT, SINGLE POLE TYPE



463

Fig 23

TENT, SINGLE POLE TYPE

**Catalogue no:** J1 8340-99-120-3002  
**Purpose:** For use by airborne signals

**Description:** A one pole octagonal tent, complete with roof and walls, canopy and bracing lines attached. Cover in disruptive pattern material.

**Dimensions:** 1.6 m (5 ft 6 in) long, 2.3 m (7 ft 6 in) wide, 1.3 m (4 ft 6 in) high.

**Floor area:** 3.7 m<sup>2</sup>

**Weight:** 8 kg

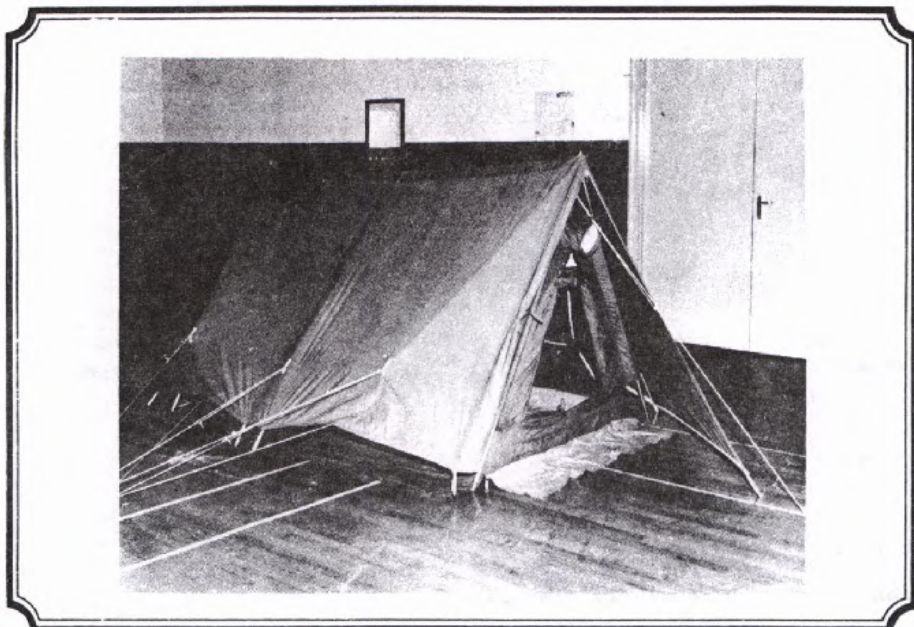
**Packed size:** 0.4 m<sup>3</sup>

**Erection:** 2 men 10 minutes

**Striking:** 2 men 5 minutes

**Accessories:**

Pitching,  
striking, and  
packing  
instructions:



5805-1

Fig 24

TENT AND FLYSHEET ASSEMBLY

**Catalogue no:** J1 8340-99-136-6345

**Purpose:** To accommodate two men (mountain rescue) For RAF use only

**Description:** A tent, tan in colour, supported by four light alloy poles. The cover and flysheet is made from a water repellent cotton fabric, and it has a built-in waterproof ground sheet.

**Dimensions:** Tent 2.5 m (8 ft 6 in) long, 1.2 m (4 ft) wide, 1.2 m (4 ft) high.  
Flysheet 3.8 m (12 ft 6 in) long, 1.6 m (5 ft 6 in) wide, 1.2 m (4 ft 2 in) high.

**Floor area:** Tent: 3.1 m<sup>2</sup> (34 ft<sup>2</sup>)  
Flysheet: 6.6 m<sup>2</sup> (72 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins etc 104 kg (230 lb)

**Packed size:** 0.4 m<sup>3</sup> (1.5 ft<sup>3</sup>)

**Erection:** 2 men 20 minutes

**Striking:** 2 men 15 minutes

**Accessories:**

**Pitching, striking and packing instructions:**



2552-17

Fig 25



TENT, 80 lb (36.3 kg)

**Catalogue no:** J1 8340-99-942-4583  
**Purpose:** Telegraph or wireless station tent for RE and RA

**Description:** A ridge tent fitted with a flysheet.

**Dimensions:** 2.4 m (8 ft) long, 4.3 m (14 ft) wide, 2.1 m (7 ft) high

**Floor area:** 10.4 m<sup>2</sup> (12 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins etc 61.2 kg (135 lb)

**Packed size:** 0.2 m<sup>3</sup> (6.5 ft<sup>3</sup>)

**Erection:** 4 men 15 minutes

**Striking:** 4 men 10 minutes

**Accessories:** Mallet

**Pitching, striking and packing instructions:**

TENT, VANGO FORCE 10, MK 4 STANDARD



10280B-1

Fig 26

TENT, VANGO FORCE 10, MK 4 STANDARD

**Catalogue no:** J1 8340-99-138-2268

**Purpose:** To accommodate two men. For use in mountain training.

**Description:** A ridge tent comprising flysheet and inner tent. Cotton manufacture. Supported by 'A' poles at each end. Flysheet coloured golden yellow for recognition.

**Dimensions:** Inner tent: 2.67 m (8 ft 9 in) long, 1.52 m (5 ft) wide, 1.22 m (4 ft) high.  
Flysheet: 3.73 m (12 ft 3 in) overall length  
1.30 m high

**Floor area:** 4 m<sup>3</sup>

**Weight:** Inclusive of canvas, poles, pins, etc 9 kg (20 lb)

**Packed size:** 0.04 m<sup>3</sup>

**Erection:** 2 men 10 minutes

**Striking:** 2 men 5 minutes

**Accessories:**

Pitching,  
striking and  
packing  
instructions:

TENT, VENTURE



5792-1

Fig 27

TENT, VENTURE

Catalogue no: J1 8340-99-122-5620

Purpose: 2 man tent

Description: An 'A' pole tent with light alloy poles. The cover is made from a water repellent cotton fabric. It has detachable waterproof ground sheet.

Dimensions: 2.1 m (7 ft) long, 1.5 m (5 ft) wide, 1.3 m (4 ft 6 in) high

Floor area:  $3.2 \text{ m}^2$  (35  $\text{ft}^2$ )

Weight: Inclusive of canvas, poles, pins etc 6.3 kg (16 lb)

Packed size:  $0.04 \text{ m}^3$  (1.5  $\text{ft}^3$ )

Erection: 2 men 10 minutes

Striking: 2 men 10 minutes

Accessories:

Pitching,  
striking and  
packing  
instructions:

TENT, SHEET ARCTIC



5854-1

Fig 28

TENT, SHEET ARCTIC

**Catalogue no:** J1 8340-99-138-9093

**Purpose:** To provide a shelter for one man as a bivouac or wind break for personal survival in the Arctic. Sheets may be joined together to form a tent/shelter, the configuration depending on the number of sheets employed.

**Description:** A diamond shaped sheet of plastic coated fabric lined with white nylon. A light alloy 3-section pole and 3 ground pins complete the equipment.

**Dimensions:** 3.45 m long, 1.95 m wide (sides are 2m) -

**Floor area:** Single sheet 2.4 m<sup>2</sup>

**Weight:** Including poles, pins etc 1.42 kg (3 lb 2 oz)

**Packed size:** 0.01 m<sup>3</sup>

**Erection:** 1 man 5 minutes

**Striking:** 1 man 5 minutes

**Accessories:**

**Pitching, striking and packing instructions:** Supplement JSP 361/8





CHAPTER 4

SHELTERS

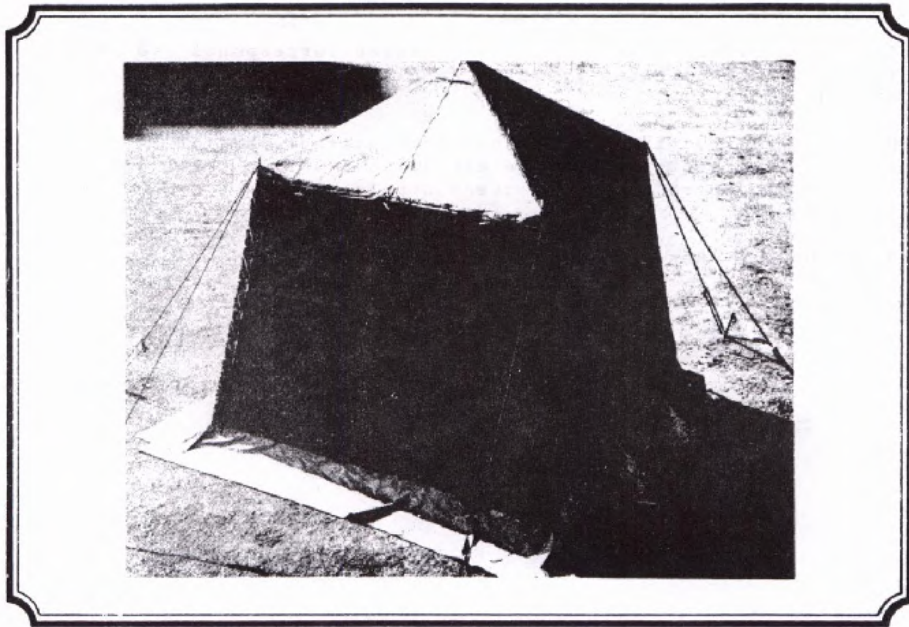
INTRODUCTION

0401. The information contained in the pages of this chapter gives the title, catalogue number, purpose and basic data of each shelter in service, together with illustrations.

0402. The order in which they are listed corresponds to the Joint Service Catalogues of Tents, Shelters and Components, (JSP 330).

0403. Pitching, striking and packing instructions for those shelters most frequently in use are to be found in the list of supplements. Spare copies of these supplements may be demanded separately.

0403 to 0500. Reserved.



3889-10

Fig 29

SHELTER, ASTRONOMICAL OBSERVATION

**Catalogue no:** J1 8340-99-122-9125

**Purpose:** Astronomical observing and field survey tent.

**Description:** A square shaped tent with sloping walls. Each wall is fitted with a large window. The cover is manufactured from a corespun, cotton covered polyester duck fabric of ripstop construction. The fabric has a FWR (flame retardant, water repellent, rot resistant) finish. The framework is built from light alloy poles and brackets. The tent is capable of being used with or without the roof or, with or without any of the four walls

**Dimensions:** 2.7 m (8 ft 10 in) long, 2.7 m (8 ft 10 in) wide, 2.2 m (7 ft 4 in) high

**Floor area:** 6.69 m<sup>2</sup> (72 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 55.3 kg (122 lb)

**Packed size:** 7.33 ft<sup>3</sup>

**Erection:** 2 men 20 minutes

**Striking:** 2 men 15 minutes

**Accessories:** Hammer

**Pitching, striking and packing instructions:**

SHELTER, COMMAND POST AND GP  
2.75 m x 2.75 m (9 ft x 9 ft) Mk 1



3244-8

Fig 30

SHELTER, COMMAND POST AND GP  
2.75 m x 2.75 m (9 ft x 9 ft) Mk 1

**Catalogue no:** J1 8340-99-120-6653

**Purpose:** To provide a command post when used with a vehicle transmitting station. For general purpose uses as a free-standing shelter without vehicle.

**Description:** A framed shelter, with sloping side walls. The frame is built from light alloy poles and brackets.

**Dimensions:** 2.67 m (8 ft 9 in) long, 2.84 m (9 ft 4 in) wide at floor level, 2.34 m (7 ft 9 in) high to ridge.

**Floor area:** 7.8 m<sup>2</sup>

**Weight:** Including canvas, poles, pins, etc 100 kg

**Packed size:** 0.3 m<sup>3</sup>

**Erection:** 2 men 20 minutes

**Striking:** 2 men 15 minutes

**Accessories:** Hammer

**Pitching, striking and packing instructions:** Not published. Supplement JSP 361/2 for the Mk 2 may be used as a guide.

**Remarks** Obsolescent being superseded by Mk 2 J1 8340-99-135-1424 on page 73.

SHELTER, COMMAND POST AND GP  
2.75 m x 2.75 m (9 ft x 9 ft) Mk 2



3728-11

Fig 31

SHELTER, COMMAND POST AND GP  
2.75 m x 2.75 m (9 ft x 9 ft) Mk 2

**Catalogue no:** J1 8340-99-135-1424

**Purpose:** To provide a command post when used with a vehicle transmitting station. For general purpose use as a free-standing shelter without vehicle.

**Description:** A framed shelter with sloping side walls. The frame is built from light alloy poles and brackets.

**Dimensions:** 2.67 m (8 ft 9 in) long, 2.84 m (9 ft 4 in) wide at floor level, 2.34 m (7 ft 8 in) high to ridge

**Floor area:** 7.8 m<sup>2</sup>

**Weight:** Inclusive of canvas, poles, pins, etc 80 kg (176 lb)

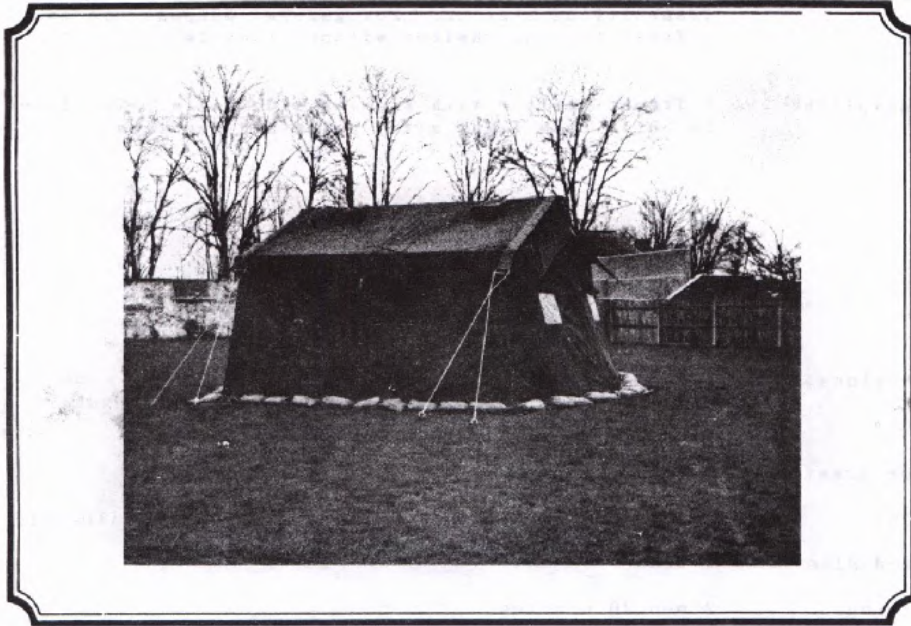
**Packed size:** 0.3 m<sup>3</sup>

**Erection:** 2 men 20 minutes

**Striking:** 2 men 15 minutes

**Accessories:** Hammer

**Pitching, striking and packing instructions:** Supplement JSP 361/2



3788-8

Fig 32



SHELTER, GENERAL PURPOSE 3.6 m x 3.6 m (12 ft x 12 ft)

**Catalogue no:** J1 8340-99-120-8579

**Purpose:** To provide general purpose accommodation.

**Description:** A framed shelter 3.6 m (12 ft) wide at the eaves with sloping side walls 1.8 m (6 ft) high. Fitted with a white roof liner and provided with ventilation facilities. The cover is manufactured from a fabric woven from cotton covered polyester core yarns. It is a ripstop construction and is given a FWR (flame resistant, water repellent rot resistant) finish. The framework is built from light alloy poles and brackets. The shelter is extendible in length by units of 3.6 m (12 ft) using the extension 8340-99-135-9601 described on page 81.

**Dimensions:** 3.6 m (12 ft) long, 4.6 m (15 ft) wide, 2.7 m (8 ft 9 in) high

**Floor area:** 16.7 m<sup>2</sup> (180 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 109.7 kg (242 lb)

**Packed size:** 0.4 m<sup>3</sup> (15.5 ft<sup>3</sup>)

**Erection:** 3 men 20 minutes

**Striking:** 3 men 20 minutes

**Accessories:** Hammer

**Pitching, striking and packing instructions:**

Supplement JSP 361/3

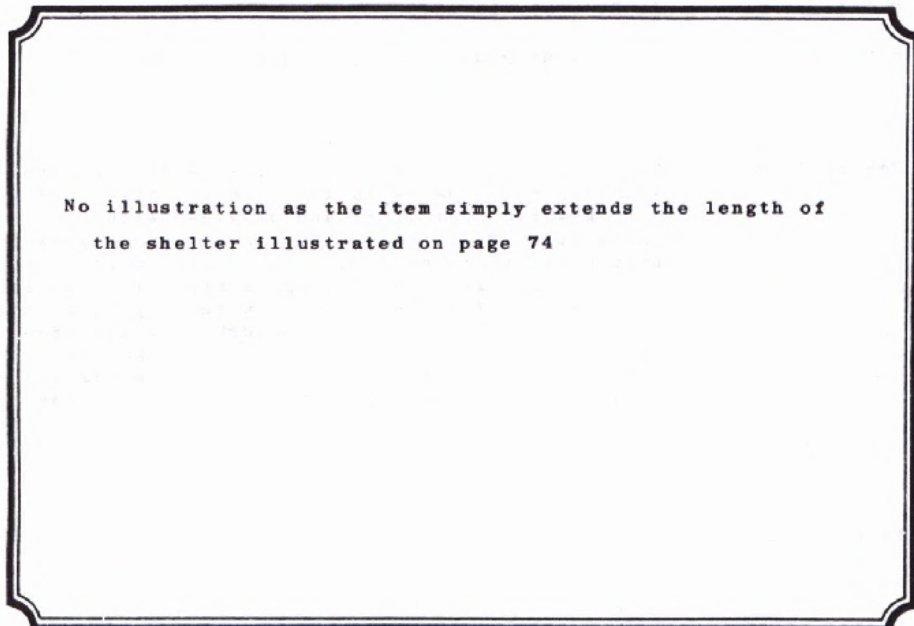


Fig 33

SHELTER, GENERAL PURPOSE 3.6 m x 3.6 m (12 ft x 12 ft)  
EXTENSION

**Catalogue no:** J1 8340-99-135-9601

**Purpose:** Extension unit to increase Shelter GP 3.6 m x 3.6 m (12 ft x 12 ft) by unit of 3.6 m (12 ft) length. Only issued on MOD authority.

**Description:** A canvas extension supported by additional frame members and brackets so as to add 3.6 m to the existing shelter.

**Dimensions:** 3.6 m (12 ft) long, 2.7 m (8 ft 10 in) at ridge

**Floor area:** 16.7 m<sup>2</sup>

**Weight:** Inclusive of canvas, poles, etc 55 kg (121 lb)

**Packed size:** 0.2 m<sup>3</sup>

**Erection:** 3 men 10 minutes

**Striking:** 3 men 5 minutes

**Accessories:** Hammer

**Pitching, striking and packing instructions:** Supplement JSP 361/3

SHELTER, GENERAL PURPOSE 7.3 m x 5.5 m (24 ft x 18 ft)



3793-10

Fig 34

SHELTER, GENERAL PURPOSE 7.3 m x 5.5 m (24 ft x 18 ft)

**Catalogue no:** J1 8340-99-132-0000

**Purpose:** To provide accommodation in the field

**Description:** A framed shelter 7.3 m (24 ft) long x 6.4 m (21 ft) wide at floor level; 5.5 m (18 ft) wide and 1.8 m (6 ft) high at eaves; with sloping walls, 3 m (11 ft) high to ridge. The frame is built from light alloy poles and brackets. Extendible in length by units of 3.6 (12 ft) using J1 8340-99-135-6217, which is described on page 81. The cover is made of polyester/cotton fabric which is fire and water resistant and rotproof. Olive drab in colour.

**Dimensions:** 7.3 m (24 ft) long, 6.4 m (21 ft) wide at floor level, 3.3 m (11 ft) high to ridge.

**Floor area:** 46.8 m<sup>2</sup>

**Weight:** Inclusive of canvas, poles, pins, etc 250 kg (550 l

**Packed size:** 1 m<sup>3</sup>

**Erection:** 5 men 20 minutes

**Striking:** 5 men 15 minutes

**Accessories:** Hammer

**Pitching, striking and packing instructions:** Supplement JSP 361/4

No illustration as the item simply extends the length of  
the shelter illustrated on page 78

Fig 35

SHELTER, GENERAL PURPOSE 7.3 m x 5.5 m (24 ft x 18 ft)  
EXTENSION

**Catalogue no:** J1 8340-99-135-6217

**Purpose:** Extension unit to increase Shelter, GP 7.3 m x 5.5 m (24 ft x 18 ft) by units of 3.6 m (12 ft) lengths. Only issued on MOD authority.

**Description:** A straight piece of material 10 m long x 3.6 m wide supported by additional frame members.

**Dimensions:** As above

**Floor area:** 23.5 m<sup>2</sup>

**Weight:** Inclusive of canvas, poles, etc 100 kg

**Packed size:** 0.4 m<sup>3</sup>

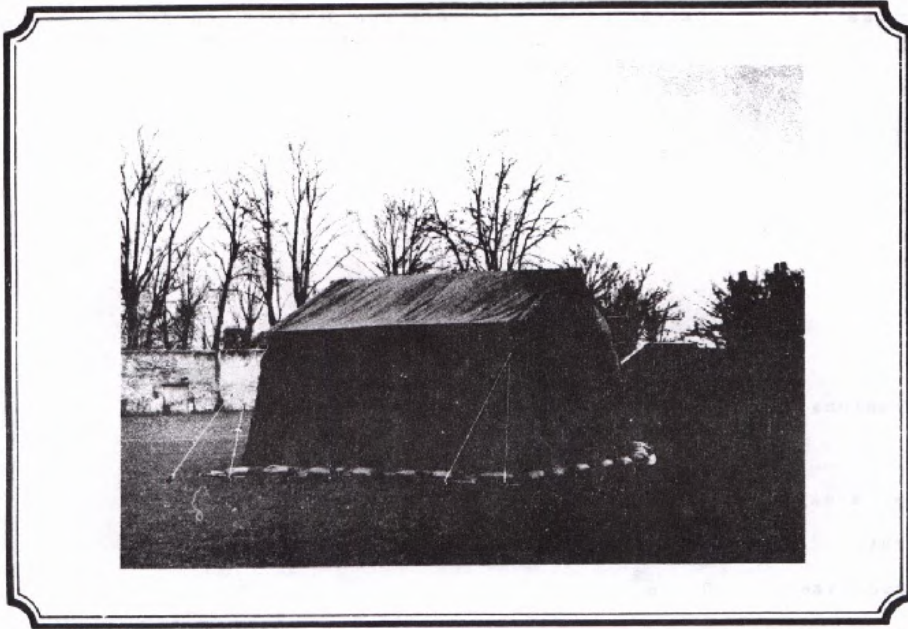
**Erection:** 5 men 15 minutes

**Striking:** 5 men 10 minutes

**Accessories:** Hammer

**Pitching, striking and packing instructions:** Supplement JSP 361/4

SHELTER, LIGHTWEIGHT 3.6 m x 3.6 m (12 ft x 12 ft)



3789 - 7

Fig 36



SHELTER, LIGHTWEIGHT 3.6 m x 3.6 m (12 ft x 12 ft)

Catalogue no: J1 8340-99-120-6736

Purpose: General service accommodation (RAF)

Description: A framed shelter 3.6 m (12 ft) wide at the eaves with sloping side walls. The fabric from which the cover is manufactured is woven from cotton covered polyester core yarn. It is of ripstop construction and has a FWR (flame resistant, water repellent, rot resistant) finish. The liner is manufactured from a cotton dosuti cloth with a flame and rot resistant finish. The framework is built from light alloy poles and brackets. It is similar to and is to be superseded by 8340-99-120-8579 Shelter GP 12 ft x 12 ft described on page 75

Dimensions: 3.6 m (12 ft) long, 4.6 m (15 ft) wide, 2.7 m (8 ft 9 in) high

Floor area: 16.7 m<sup>2</sup> (180 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins etc 117.5 kg (259 lb)

Packed size: 0.4 m<sup>3</sup> (14 ft<sup>3</sup>)

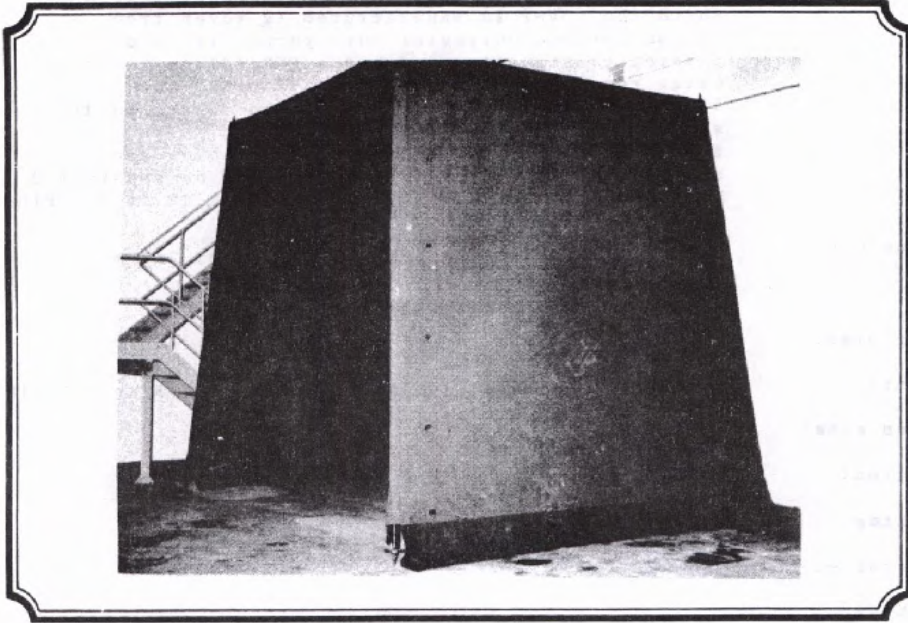
Erection: 3 men 20 minutes

Striking: 3 men 15 minutes

Accessories: Hammer

Pitching,  
striking and  
packing  
instructions:

SHELTER, METEOROLOGICAL BALLOON, PREPARATION



3241-3

Fig 37

SHELTER, METEOROLOGICAL BALLOON, PREPARATION

Catalogue no: J1 8340-99-132-0176

Purpose: To provide shelter for meteorological personnel during balloon filling and weighing operations.

Description: A framed shelter with roof and three walls. Framework of light alloy poles and steel brackets.

Dimensions: 3.9 m (13 ft) long, 3.9 m (13 ft) wide, 4 m (13 ft 5 in) high

Floor area: 40 m<sup>2</sup>

Weight: Inclusive of canvas, poles, etc 195 kg (430 lb)

Packed size: 0.7 m<sup>3</sup>

Erection: 4 men 30 minutes

Striking: 4 men 20 minutes

Accessories:

Pitching,  
striking and  
packing  
instructions:

SHELTER, MOBILE AIR MOVEMENTS SECTION  
3.6 m x 3.6 m (12 ft x 12 ft)



3242-2

Fig 38

SHELTER, MOBILE AIR MOVEMENTS SECTION  
3.6 m x 3.6 m (12 ft x 12 ft)

**Catalogue no:** J1 8340-99-127-6333

**Purpose:** To provide shelter for the Mobile Air Movements Section Personnel.

**Description:** A framed shelter, similar to shelter, GP, 12 ft x 12 ft J1 8340-99-120-8579, described on page 75 but with extra window units. For issue to RAF only on MOD authority.

**Dimensions:** 3.6 m (12 ft) long, 4.6 m (15 ft) wide, 2.7 m (8 ft 10 in) high at ridge

**Floor area:** 16.6 m<sup>2</sup>

**Weight:** Inclusive of canvas, poles, etc 110 kg (242 lb)

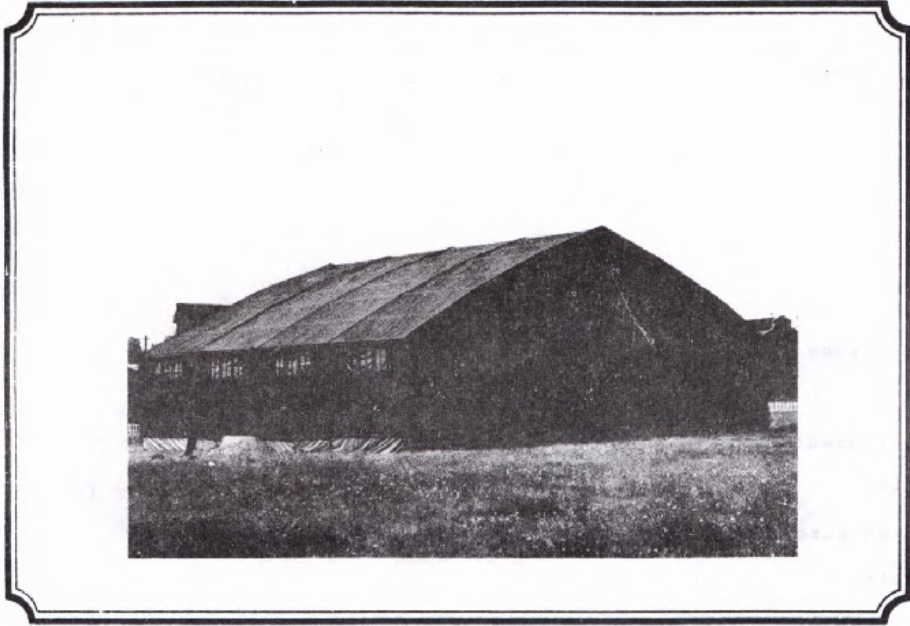
**Packed size:** 0.4 m<sup>3</sup>

**Erection:** 3 men 20 minutes

**Striking:** 3 men 15 minutes

**Accessories:** Hammer

**Pitching, striking and packing instructions:** Supplement JSP 361/5



2390-2

Fig 39

SHELTER, PORTABLE, LIGHT AIRCRAFT

**Catalogue no:** J1 8340-99-120-7092

**Purpose:** Maintenance shelter for light aircraft

**Description:** Hangar type shelter with an entrance width of 15.8 m (52 ft) and vertical clearance of 4.5 m (15 ft).

**Dimensions:** 16.7 m (55 ft) long, 17.4 m (57 ft) wide, 7.2 m (23 ft 7 in) high

**Floor area:** 291.2 m<sup>2</sup> (3135 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 4808.1 kg (10600 lb)

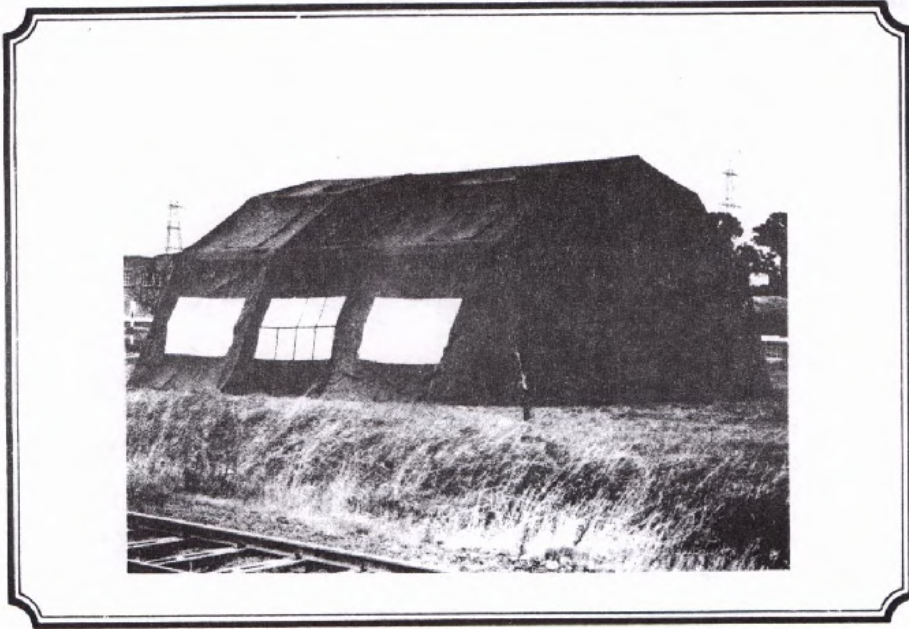
**Packed size:** 7.9 m<sup>3</sup> (280 ft<sup>3</sup>)

**Erection:** 8 men 6 hours

**Striking:** 8 men 6 hours

**Accessories:** Hammer, punch and spanners

**Pitching, striking and packing instructions:**



3388-36

Fig 40



SHELTER, PORTABLE, NO 2

Catalogue no: J1 8340-99-125-1439

Purpose: Field workshop shelter

Description: A steel frame, supporting a canvas cover.  
The shelter is extendible in length.

Dimensions: 11 m (36 ft) long, 9.1 m (30 ft) wide,  
5.5 m (18 ft) high

Floor area: 100.3 m<sup>2</sup> (1080 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins, etc 2032.1 kg  
(4480 lb)

Packed size: 6.6 m<sup>3</sup> (234 ft<sup>3</sup>)

Erection: 12 men 1 hour 30 minutes

Striking: 12 men 1 hour 30 minutes

Accessories: Hammer, sledge

Pitching,  
striking and  
packing  
instructions:

SHELTER, PORTABLE, NO 12 Mk 2



3164-23

Fig 41

SHELTER, PORTABLE, NO 12 Mk 2

**Catalogue no:** J1 9340-99-120-3743

**Purpose:** A general purpose shelter for airborne units

**Description:** A lightweight alloy framework consisting of four truss and purlin assemblies and a canvas cover with detachable door curtains.

**Dimensions:** 4.9 m (16 ft) long, 2.4 m (8 ft) wide,  
2 m (6 ft 6 in) high

**Floor area:** 11.9 m<sup>2</sup> (128 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 55.3 kg (122 lb)

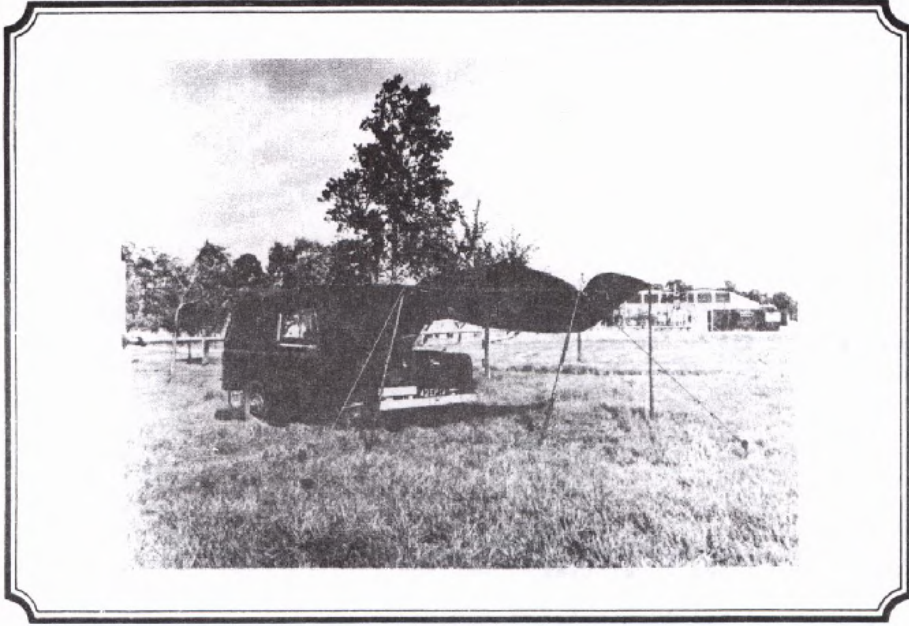
**Packed size:** 0.3 m<sup>3</sup> (10 ft<sup>3</sup>)

**Erection:** 4 men 20 minutes

**Striking:** 4 men 10 minutes

**Accessories:** Mallet

**Pitching,  
striking, and  
packing  
instructions:**



3388-12

Fig 42

SHELTER, PORTABLE NO 21

**Catalogue no:** J1 8340-99-125-1464

**Purpose:** Vehicle maintenance shelter

**Description:** A single canvas sheet, supported at one end by three tubular steel poles and at the other end by the vehicle being maintained.

**Dimensions:** 4.1 m (13 ft 6 in) long, 4.6 m (15 ft) wide, 1.9 m (6 ft 3 in) high

**Floor area:** 18.8 m<sup>2</sup> (202.5 ft<sup>2</sup>)

**Weight:** Inclusive of canvas, poles, pins, etc 39.4 kg (87 lb)

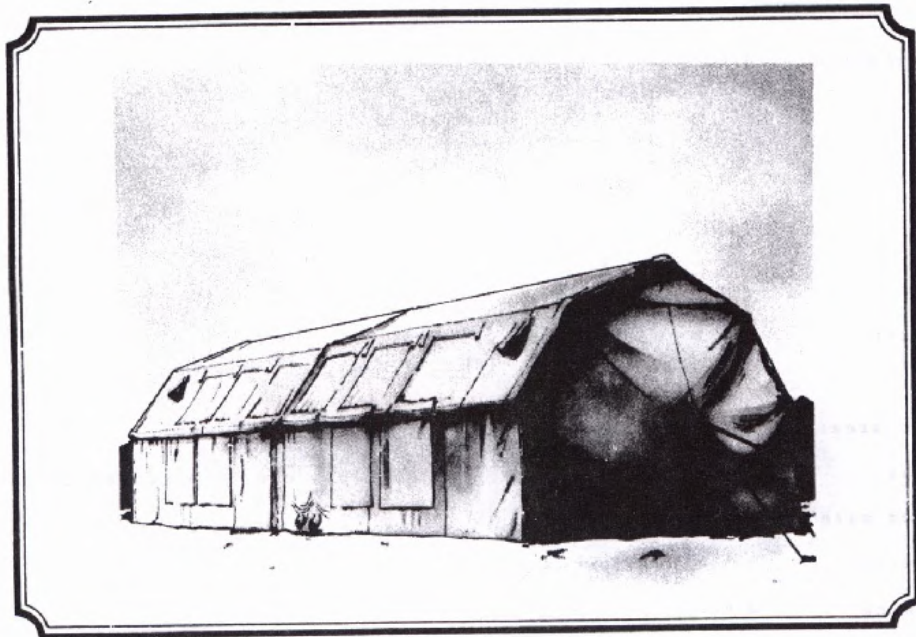
**Packed size:** 0.08 m<sup>3</sup> (3 ft<sup>3</sup>)

**Erection:** 3 men 10 minutes

**Striking:** 3 men 5 minutes

**Accessories:**

Pitching,  
striking and  
packing  
instructions:



3464

Fig 43

SHELTER, PORTABLE NO 33

Catalogue no: J1 8340-99-127-6704

Purpose: Workshop and servicing shelter

Description: A mansard roofed frame shelter

Dimensions: 15.2 m (51 ft) long, 6.1 m (20 ft) wide,  
4.6 m (15 ft) high

Floor area: 94.7 m<sup>2</sup> (1020 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins, etc 1315.4 kg (2900 lb)

Packed size: 5.9 m<sup>3</sup> (210 ft<sup>3</sup>)

Erection: 6 men 6 hours

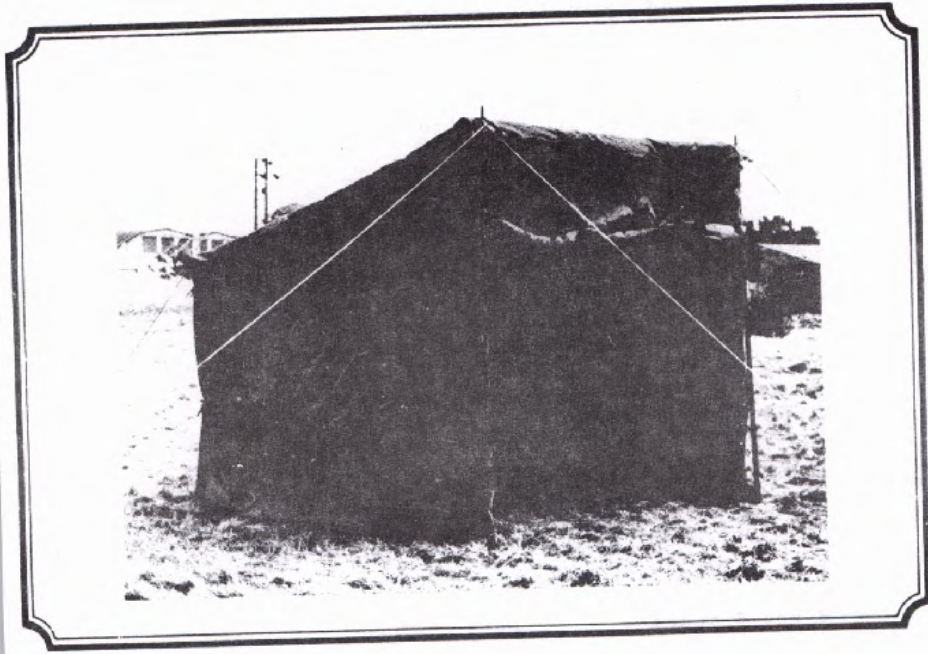
Striking: 6 men 3 hours

Accessories: Hammer, sledge and ladder extending 18 ft

Pitching,  
striking and  
packing  
instructions:

Associated  
Equipment: Heater

SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'A'



3388-44

Fig 44



SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'A'

Catalogue no: J1 8340-99-462-4682

Purpose: A general purpose shelter

Description: Single, bay universal shelter. A four piece cover supported by a tubular steel frame.

Dimensions: 3 m (10 ft) long, 2.7 m (9 ft) wide, 2.6 m (8 ft 6 in) high

Floor area: 8.3 m<sup>2</sup> (90 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins, etc 114.7 kg (253 lb)

Packed size: 0.043 m<sup>3</sup> (15.5 ft<sup>3</sup>)

Erection: 4 men 30 minutes

Striking: 4 men 15 minutes

Accessories: Mallet

Pitching,  
striking and  
packing  
instructions:

SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'B'



3388-47

Fig 45

SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'B'

Catalogue no: J1 8340-99-462-4683

Purpose: A general purpose shelter

Description: Double bay universal shelter. A six piece cover supported on a tubular steel frame

Dimensions: 2.7 m (9 ft) long, 6 m (20 ft) wide, 2.6 m (8 ft 6 in) high

Floor area:  $16.7 \text{ m}^2$  (180  $\text{ft}^2$ )

Weight: Inclusive of canvas, poles, pins, etc 167.8 kg (370 lb)

Packed size:  $0.56 \text{ m}^3$  (20  $\text{ft}^3$ )

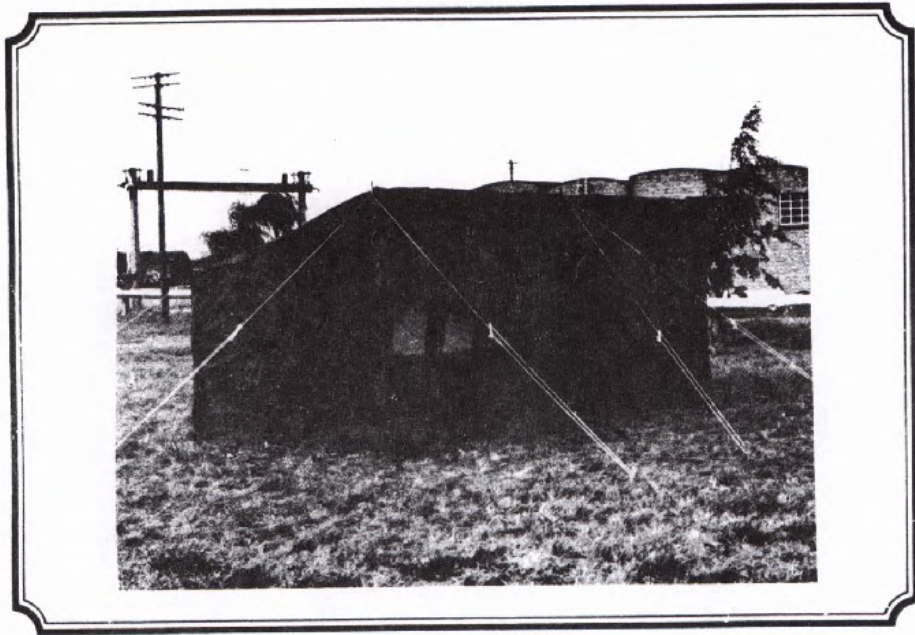
Erection: 4 men 1 hour

Striking: 4 men 30 minutes

Accessories: Mallet

Pitching,  
striking and  
packing  
instructions:

SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'C'



3388-48

Fig 46

SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'C'

Catalogue no: J1 8340-99-462-4666

Purpose: Workshop for blacksmith, or mobile cookhouse

Description: Double bay universal shelter comprising a six piece cover on a tubular steel frame.

Dimensions: 3 m (10 ft) long, 5.5 m (18 ft) wide,  
2.6 m (8 ft 6 in) high

Floor area:  $16.7 \text{ m}^2$  (180  $\text{ft}^2$ )

Weight: Inclusive of canvas, poles, pins, etc 167.3 kg (369 lb)

Packed size:  $0.6 \text{ m}^3$  (21.5  $\text{ft}^3$ )

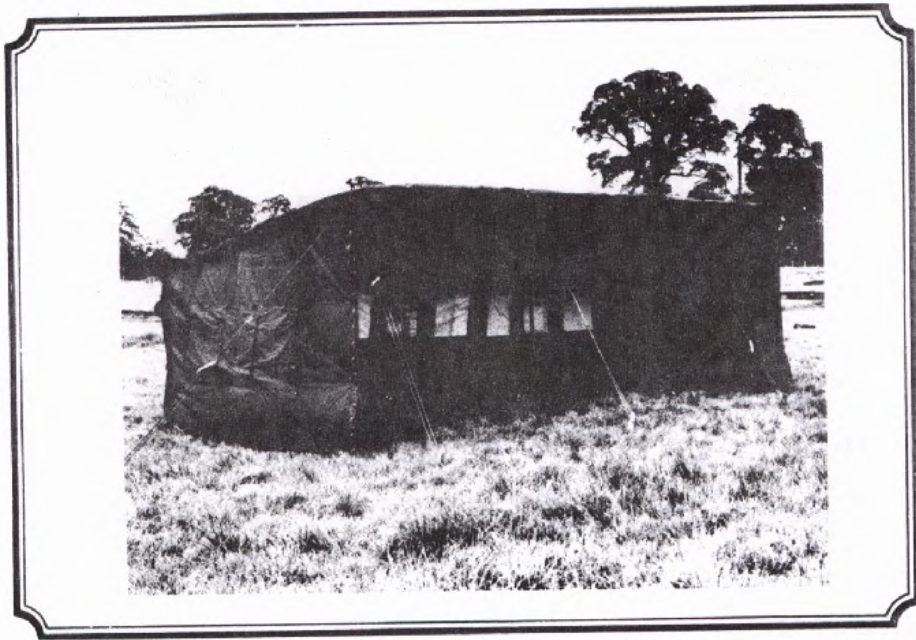
Erection: 4 men 1 hour

Striking: 4 men 30 minutes

Accessories: Mallet

Pitching,  
striking, and  
packing  
instructions:

SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'D'



3388-52

Fig 47

SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'D'

Catalogue no: J1 8340-99-942-4591

Purpose: Mobile bakery oven shelter

Description: Three bay shelter, six piece canvas cover on a tubular steel frame.

Dimensions: 3 m (10 ft) long, 8.2 m (27 ft) wide,  
2.6 m (8 ft 6 in) high

Floor area: 25 m<sup>2</sup> (270 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins, etc 200.9 kg (4431 lb)

Packed size: 0.5 m<sup>3</sup> (17.5 ft<sup>3</sup>)

Erection: 4 men 30 minutes

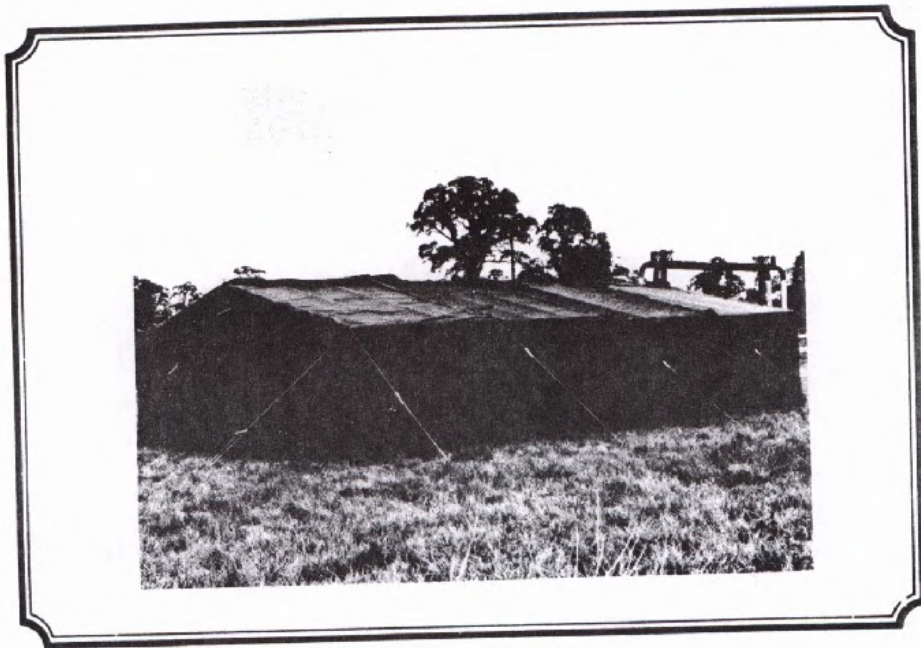
Striking: 4 men 15 minutes

Accessories: Mallet

Pitching,  
striking and  
packing  
instructions:

Associated Equipment: Tent, Marquee, universal, mobile bakery.  
8340-99-942-4588 described on page 46

SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'E'



3388-55

Fig 48



SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'E'

Catalogue no: J1 8340-99-462-4668

Purpose: A general purpose shelter

Description: Eight bay shelter 12 canvas covers laced together and supported on a tubular steel frame.

Dimensions: 10.9 m (36 ft) long, 6 m (20 ft) wide,  
2.6 m (8 ft 6 in) high

Floor area: 66.9 m<sup>2</sup> (720 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins, etc 498.9 kg (1100 lb)

Packed size: 1.5 m<sup>3</sup> (52 ft<sup>3</sup>)

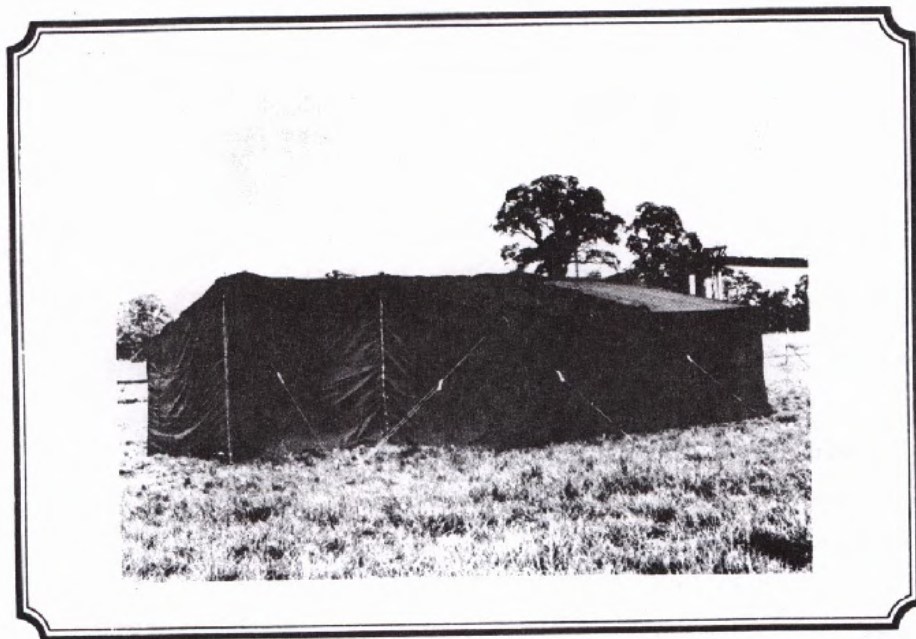
Erection: 6 men 2 hours

Striking: 6 men 1 hour

Accessories: Mallet

Pitching,  
striking and  
packing  
instructions:

SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'F'



3388-56

Fig 49

SHELTER, PORTABLE, UNIVERSAL  
ASSEMBLY 'F'

Catalogue no: J1 8340-99-462-4667

Purpose: For field medical services

Description: A five bay shelter (two double, one single) consisting of 11 canvas covers laced together and supported by a tubular steel frame.

Dimensions: 8.2 m (27 ft) long, 6 m (20 ft) wide  
2.6 m (8 ft 6 in) high

Floor area: 41.8 m<sup>2</sup> (450 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins, etc, 354.7 kg (782 lb)

Packed size: 1 m<sup>3</sup> (36.5 ft<sup>3</sup>)

Erection: 6 men 2 hours

Striking: 6 men 1 hour

Accessories: Mallet

Pitching,  
striking and  
packing  
instructions:



2552-28

Fig 50

SHELTER, REGIMENTAL AID POST, MK 2

Catalogue no: J1 8340-99-462-4541

Purpose: Regimental aid post

Description: A double pyramid framed tent; the cover is provided with an integral porchway. A white liner is fitted.

Dimensions: 4.6 m (15 ft) long, 4.6 m (15 ft) wide,  
2 m (6 ft 6 in) high

Floor area: 20.9 m<sup>2</sup> (225 ft<sup>2</sup>)

Weight: Inclusive of canvas, poles, pins, etc 61.2 kg (135 lb)

Packed size: 0.34 m<sup>3</sup> (12 ft<sup>3</sup>)

Erection: 4 men 30 minutes

Striking: 4 men 20 minutes

Accessories: Mallet

Pitching,  
striking and  
packing  
instructions:



CHAPTER 5

LINERS AND PASSAGEWAYS

INTRODUCTION

0501. Liner sets and passageways are issued only on MOD Authority.

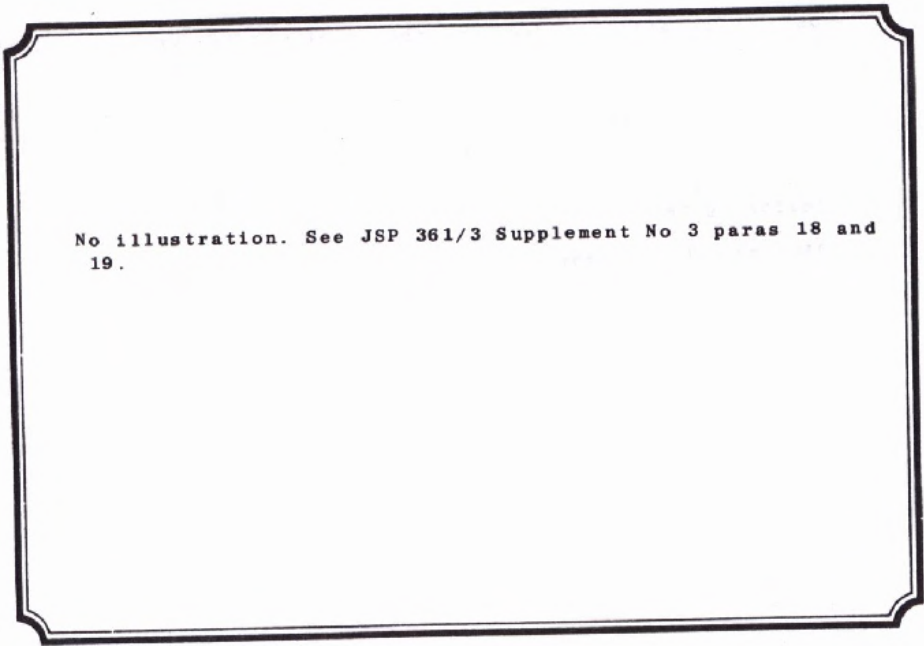
0502. Details are given in the Joint Service Catalogue (JSP 330).

0503. It will be noted from the Catalogue that when both line sets and passageways are to be fitted, it is usually necessary to obtain special end canvases.

0504. Liner sets and passageways in service are listed in the following pages.

0505 to 0600. Reserved.

LINER SET, SHELTER GP  
3.6 m x 3.6 m (12 ft x 12 ft)



No illustration. See JSP 361/3 Supplement No 3 paras 18 and 19.

Fig 51



LINER SET, SHELTER GP  
3.6 m x 3.6 m (12 ft x 12 ft)

Catalogue no: J1 8340-99-130-2181

Purpose: To provide a liner for a medical complex shelter.

Description: It is made from white cotton material, fireproof, waterproof and rot resistant, and comprises:

Liner, end,	8340-99-122-5198	Qty 2
Liner, roof,	8340-99-122-5199	" 1
Liner, wall,	8340-99-122-5200	" 2
Valise, tent	8340-99-122-4685	" 1

It is issued only on MOD authority

Dimensions:

Floor area: 16.6 m<sup>2</sup>

Weight: 80 kg (176 lb)

Packed size: 0.3 m<sup>3</sup>

Erection: 3 men 20 minutes

Striking: 3 men 15 minutes

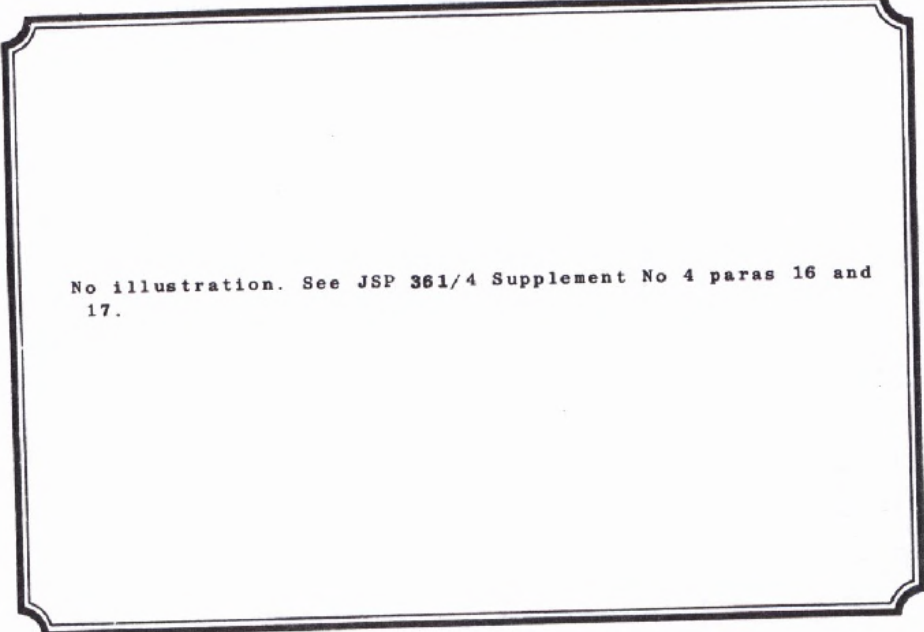
Accessories:

Pitching,  
striking and  
packing

instructions: Supplement JSP 361/3

Associated Equipment: Special liner ends 8340-99-122-5197 liner end with passage door (for use when shelters are inter-connected by passageways).

LINER SET, SHELTER GP  
7.3 m x 5.5 m (24 ft x 18 ft)



No illustration. See JSP 361/4 Supplement No 4 paras 16 and 17.

Fig 52

LINER SET, SHELTER GP  
7.3 m x 5.5 m (24 ft x 18 ft)

Catalogue no: J1 8340-99-130-2182

Purpose: To provide a liner for the 24 ft x 18 ft shelter

Description: It comprises:

Liner, end	8340-99-122-5715	Qty 2
Liner, roof	8340-99-122-5714	" 2
Liner, wall	8340-99-122-5200	" 4
Valise, tent	8340-99-942-4685	" 1

Issued on MOD authority only

**Dimensions:**

Floor area: 23.5 m<sup>2</sup>

Weight: 49 kg (108 lb)

Packed size: 0.2 m<sup>3</sup>

Erection: 2 men 15 minutes

Striking: 2 men 10 minutes

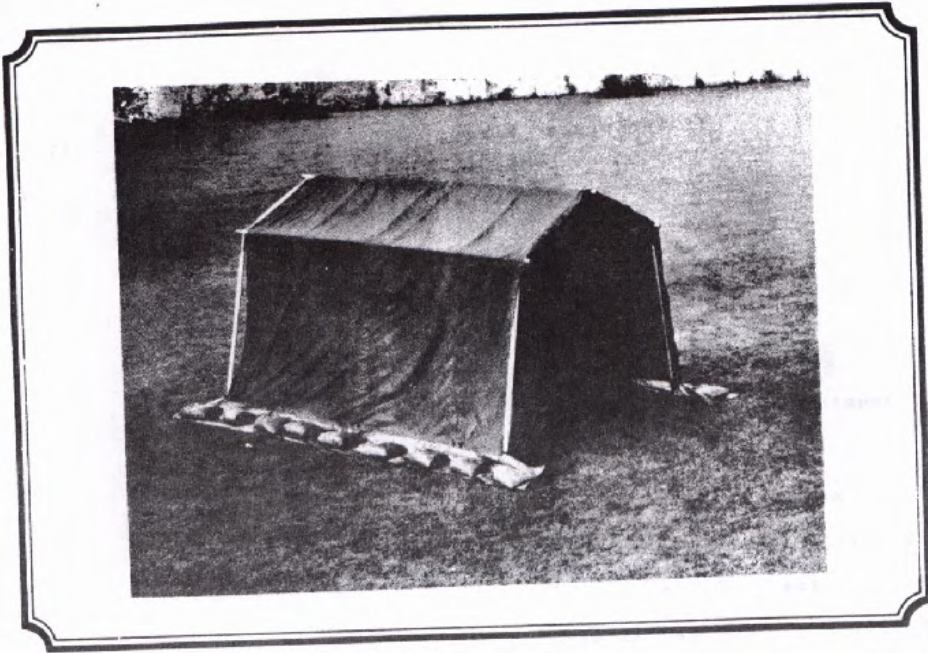
**Accessories:**

Pitching,  
striking and  
packing

instructions: Supplement JSP 361/4

Associated equipment: Special liner ends 8340-99-122-5716 liner end with passage door, (for use when shelters are interconnected by passageways)

PASSAGEWAY, SHELTER, STRAIGHT



3690-17

Fig 53

PASSAGEWAY, SHELTER, STRAIGHT

Catalogue no: J1 8340-99-130-2183

Purpose: Passageway for inter-connecting shelters GP 3.6 m x 3.6 m (12 ft x 12 ft) and 7.3 m x 3.6 m (24 ft x 12 ft)

Description: Extendible in 3.6 m (12 ft) long units using 8340-99-130-2301 described on page 121 Only issued on MOD authority

Dimensions:

Floor area: 5 m<sup>2</sup>

Weight: Inclusive of canvas, poles, etc 20 kg (44 lb)

Packed size: 0.05 m<sup>3</sup>

Erection: 2 men 15 minutes

Striking: 2 men 10 minutes

Accessories:

Pitching, striking and packing instructions: Supplement JSP 361/7

PASSAGEWAY, SHELTER, STRAIGHT  
EXTENSION



No illustration as the item is simply an extension  
of the passageway illustrated on page 118.

Fig 54

PASSAGEWAY, SHELTER, STRAIGHT  
EXTENSION

Catalogue no: J1 8340-99-130-2301

Purpose: Extension of passageway, shelter, straight.

Description: Passageway extension, 3.6 m (12 ft) long, 1.8 m (6 ft) wide at eaves. Only issued on MOD authority

Dimensions:

Floor area: 5 m<sup>2</sup>

Weight: 18 kg (40 lb)

Packed size: 0.05 m<sup>3</sup>

Erection: 2 men 15 minutes

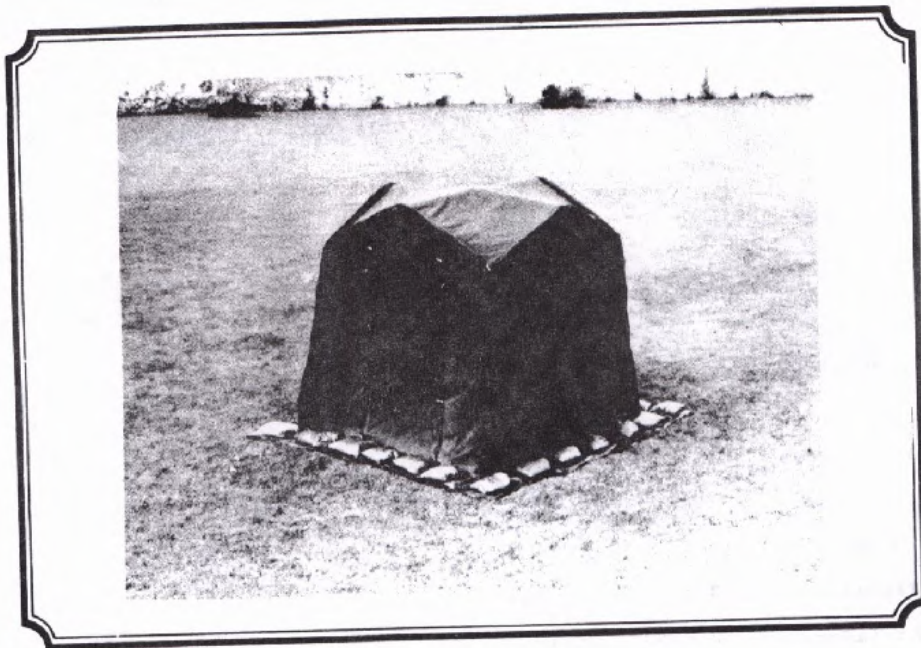
Striking: 2 men 10 minutes

Accessories:

Pitching,  
striking and  
packing

instructions: Supplement JSP 361/7

PASSAGEWAY, SHELTER, 4-WAY CONNECTOR



3690-19

Fig 55



PASSAGEWAY, SHELTER, 4-WAY CONNECTOR

Catalogue no: J1 8340-99-130-2184

Purpose: A unit which allows up to qty four Passageways, straight and shelters, GP to be inter-connected. Only issued on MOD authority.

Description: A connector used to join two or more passageways or shelters 12 ft x 12 ft and 24 ft x 18 ft, also shelter(s) CP and GP 9 ft x 9 ft, in various complexes.

Dimensions:

Floor area: 8 m<sup>2</sup>

Weight: 40 kg (88 lb)

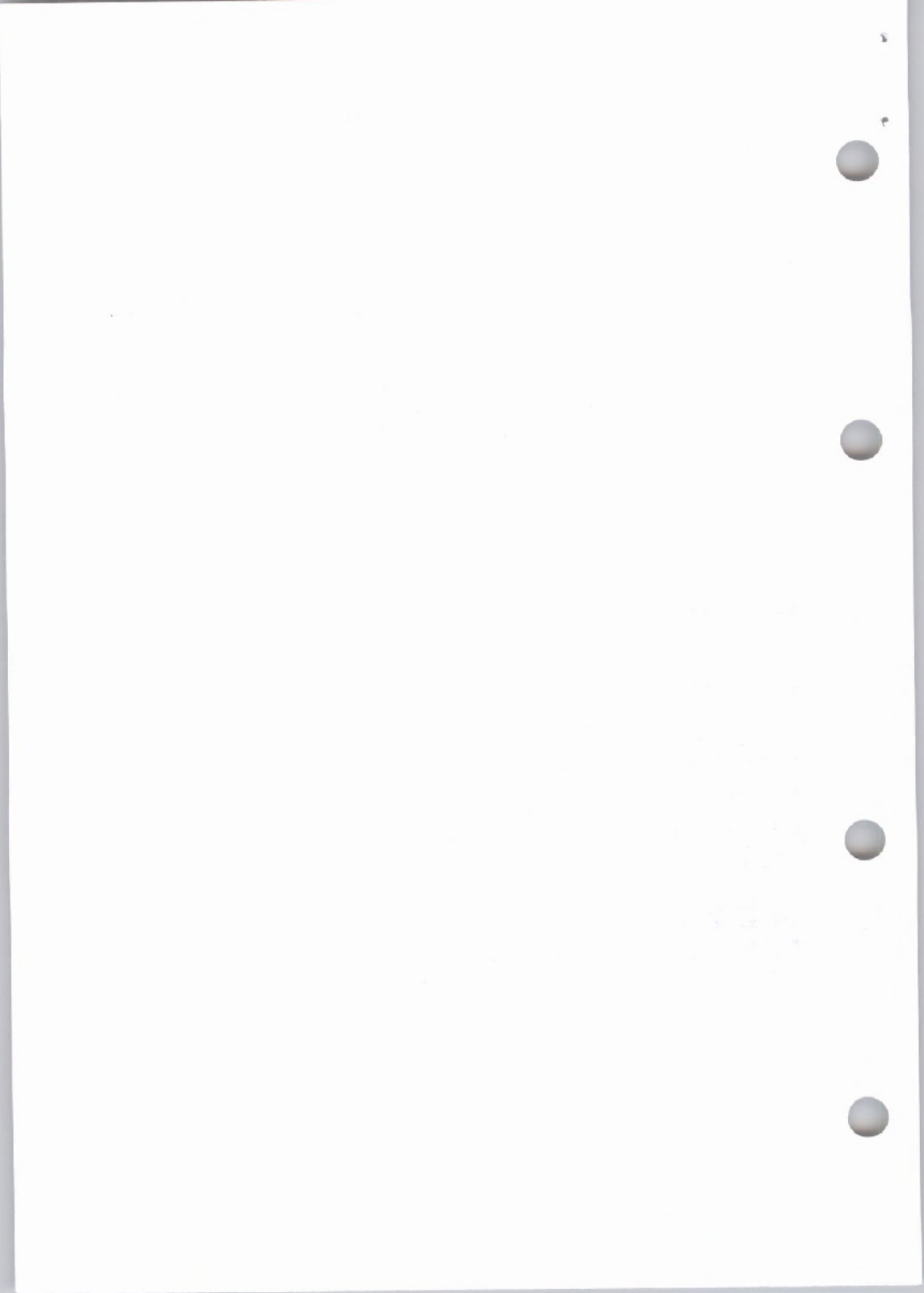
Packed size: 0.05 m

Erection: 2 men 15 minutes

Striking: 2 men 10 minutes

Accessories:

Pitching,  
striking and  
packing  
instructions: Supplement JSP 361/7





**JSP 361/2**

**JOINT SERVICE HANDBOOK  
OF TENTAGE**

**SUPPLEMENT No 2  
SHELTER, COMMAND POST AND  
GENERAL PURPOSE 2.7 m x 2.7 m  
(9 ft x 9 ft) MK 2**

**J1 8340-99-135-1424**

**INSTRUCTIONS FOR PITCHING, STRIKING  
AND PACKING**

By Command of the Defence Council

MINISTRY OF DEFENCE

MARCH 1981

A handwritten signature in cursive script, appearing to read 'Frank Cooper'.

AMENDMENTS

Amendment number	Date of insertion	By whom amended	Amendment number	Date of insertion	By whom amended

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QAD (S&C)

DSM(A) Control Division

Territorial Army - On demand by units  
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ROYAL AIR FORCE

As authorized by APFS

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6 Ground plan	8

FOREWORD

1. Personnel are advised to make themselves conversant with the contents of JSP 361 Chapters 1 and 2

WARNING - WET CANVAS

2. Wet canvas should never be folded or packed unless circumstances render this unavoidable. Whenever it becomes necessary to pack canvas in a wet condition, action must be taken in accordance with the instructions given in para 11a.

JOINT SERVICE HANDBOOK  
OF TENTAGE

SUPPLEMENT NO 2

SHELTER, COMMAND POST AND  
GENERAL PURPOSE 2.7 m x 2.7 m  
(9 ft x 9 ft) MK 2  
J1 8340-99-135-1424

INSTRUCTIONS FOR PITCHING, STRIKING AND PACKING

DESCRIPTION

1. The shelter is designed to be used in conjunction with a Landrover as illustrated in Fig 1. One end of the canvas cover is fitted with a sleeve that fastens over the canopy of the vehicle and a canvas skirt is provided for attaching to the vehicle to prevent exhaust fumes getting into the shelter. The opposite end of the shelter is the personnel entrance.



3244-8

Fig 1 - Shelter attached to Landrover.

2. As the shelter is free-standing it can be used, when required, independently of the vehicle as illustrated in Fig 2.



3244-10

Fig 2 - Free standing - personnel entrance open

3. The shelter consists of a metal frame supporting a canvas cover. The frame is constructed of light alloy tubular members which are connected by brackets. The three different tubular members are all the same diameter and their lengths permit them to be carried on a Landrover vehicle or a half ton trailer. Both ends of the canvas cover are closed with metal slide fasteners or in the later version, with toggles and loops. The personnel entrance is fitted with a curtain inside the opening to allow exit and entry under blackout conditions.



The text, which continues overleaf, has not been printed on this page, to enable the list of components and its illustration to face each other.

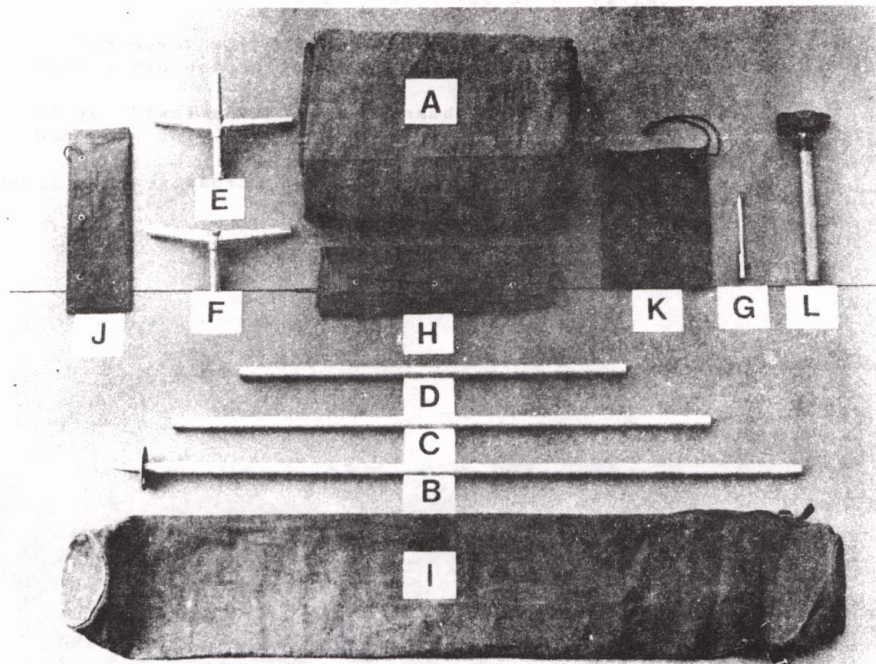
WEIGHT AND DIMENSIONS

4. Weight	80 kg (180 lb)
Pitching space	3.8 m x 3.2 m (12 ft 6 in x 10 ft 6 in)
Floor space	2.7 m x 2.8 m (8 ft 9 in x 9 ft 4 in)
Height at ridge	2.03 m (6 ft 8 in)
Height at eaves	1.6 m (5 ft 2 in)
Width at eaves	2.0 m (6 ft 7 in)
Cubic	0.3 m <sup>3</sup> (10.5 ft <sup>3</sup> )

COMPONENTS

5. The components of one complete shelter consist of the following items which are illustrated in Fig 3.

Key see Fig 3	Item	Catalogue number	Qty
J	Bag, shelter frame	J1/8340-99-120-6662	1
I	Bag, shelter frame	J1/8340-99-122-5824	1
H	Bag, tent	J1/8340-99-120-6655	1
K	Bag, tent pin	J1/8340-99-120-7079	1
A	Canvas shelter	J1/8340-99-122-5844	1
F	Frame, shelter, bracket end	J1/8340-99-120-6661	6
E	Frame, shelter, connector	J1/8340-99-122-6574	3
D	Roof, member, rafter	J1/8340-99-120-6658	4
C.	Roof, member, ridge and eave	J1/8340-99-120-6657	6
B	Wall member	J1/8340-99-122-6575	4
L	Hammer hand	F1/5120-99-910-4703	1
G	Pin, tent, steel, 12 in	J1/8340-99-132-0028	16



3244-11

Fig 3 - Components - items A to L

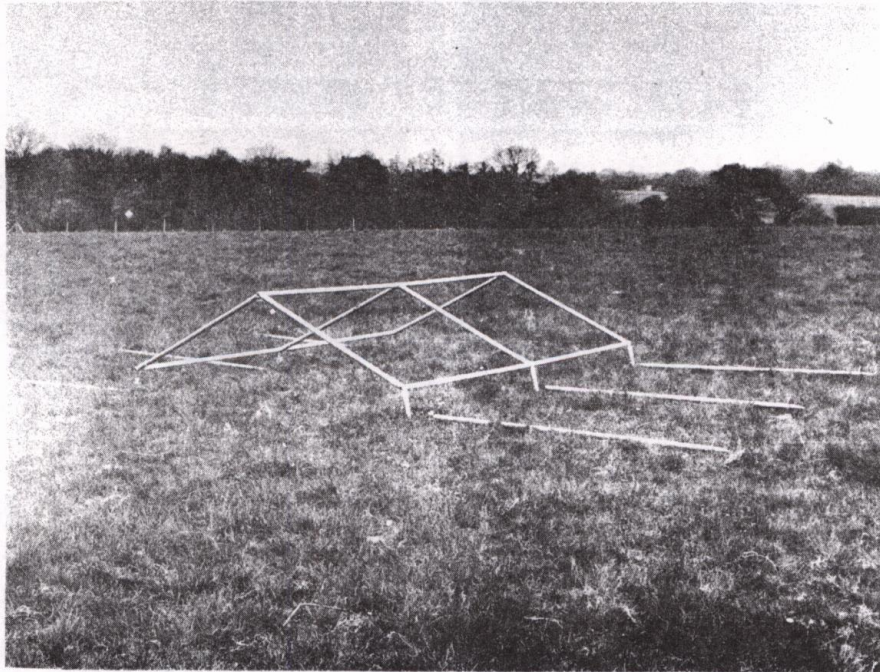
GENERAL INSTRUCTIONS

6. It is desirable that the shelter is pitched on firm, level ground, and it is essential that adequate ballast is placed on the coated fabric cloths at the bottom of the walls and ends of the shelter. Spoil from drainage trenches is suitable for this purpose and may be used in sandbags or other flexible containers, if available. Weather lines are also provided to give additional stability under high wind conditions.

INSTRUCTIONS FOR PITCHING

7. Pitching party - three men. The photographs shown at Figs 4 and 5 give details of the method and sequence of pitching, whilst the ground plan is shown at Fig 6.

- a. The shortest poles are fitted from ridge to eave. The six 3-way brackets are fitted three at each end of the roof assembly.
- b. Fit canvas on to assembled frame.
- c. Raise the roof assembly by fitting the three wall members on one side - then repeat on the other side.
- d. Secure loops at the base of the canvas inside by fixing to the wall members and by using tent pins provided.
- e. Ballast skirting at base of walls; cross weather lines and peg down.



3244-1

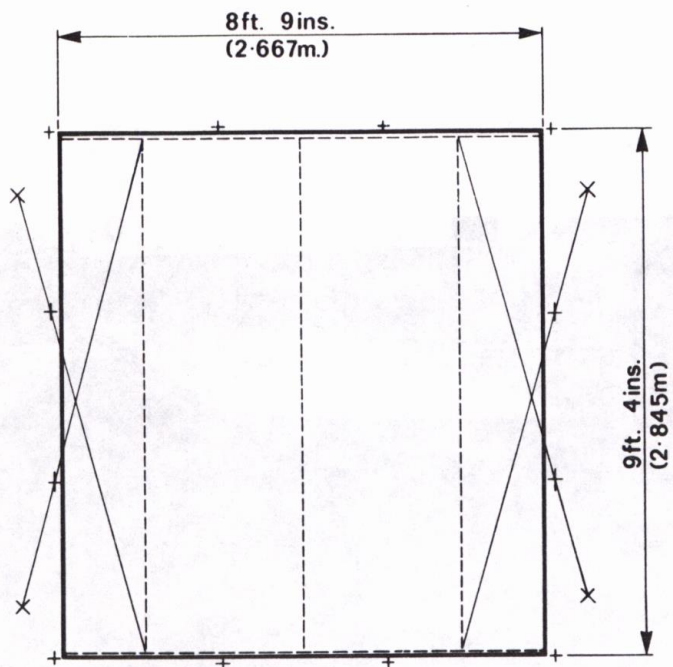
Fig 4 - Roof assembly

3244-1



3728-11

Fig 5 - Ballast and weather lines



× PIN TENT  
 BROKEN LINE INDICATES  
 POSITION OF FRAME

GROUND PLAN

SHELTER, COMMAND POST &  
 GENERAL PURPOSE 9ft x 9ft.  
 (2.7m.x 2.7m) MK 2.

FIGURE 6

8380A-5

Fig 6 - Ground plan

INSTRUCTIONS FOR STRIKING

8. Warning - Wet Canvas Wet canvas should never be folded or packed unless circumstances render this unavoidable. Shelters should therefore be left to dry thoroughly before they are struck. Should it be necessary to strike a shelter when the canvas is not perfectly dry, strict compliance is essential with the instructions given in para 11a below.

9. Striking is carried out in the reverse order to pitching.

INSTRUCTIONS FOR FOLDING

10. a. Fold the shelter canvas in half.
- b. Lay it out flat on the ground.
- c. Fold ends on to roof and walls.
- d. Fold walls to ridge in three equal folds.
- e. Finally, roll to form the smallest possible bundle.

INSTRUCTIONS FOR PACKING

1. a. Wet canvas should never be folded and packed unless circumstances render this unavoidable. Whenever it becomes necessary to pack canvas in a wet condition the packages are to be marked clearly 'NOT DRY' to indicate that the canvas was packed in a wet condition. If the canvas is being retained in the camp site, the officer in charge is to be notified of the condition of the canvas so that he can arrange for it to be dried at the earliest opportunity. If the canvas is to be dispatched, the consignee is to be notified by telephone or signal so that the canvas can be unpacked and dried as soon as possible after receipt.
- b. Place the rolled shelter canvas in the tent bag.
- c. Place the shelter frame components in the bags provided.
- d. Pack the tent pins in the tent pin bag.



**JSP 361/3**

**JOINT SERVICE HANDBOOK  
OF TENTAGE**

**SUPPLEMENT No 3**

**SHELTER, GENERAL PURPOSE**

**3.6 m x 3.6 m (12 ft x 12 ft)**

**J1 8340-99-120-8579**

**AND**

**SHELTER, GENERAL PURPOSE**

**3.6 m x 3.6 m (12 ft x 12 ft)**

**EXTENSION**

**J1 8340-99-135-9601**

**INSTRUCTIONS FOR PITCHING, STRIKING  
AND PACKING**

By Command of the Defence Council

*Frank Cooper*

MINISTRY OF DEFENCE  
MARCH 1981



AMENDMENTS

Amendment number	Date of insertion	By whom amended	Amendment number	Date of insertion	By whom amended

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ROYAL AIR FORCE

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22	Lay out frame components	28
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FOREWORD

1. Personnel are advised to make themselves conversant with the contents of JSP 361 Chapters 1 and 2.

WARNING - WET CANVAS

2. Wet canvas should never be folded or packed unless circumstances render this unavoidable. Whenever it becomes necessary to pack canvas in a wet condition, action must be taken in accordance with the instructions given in para 26.

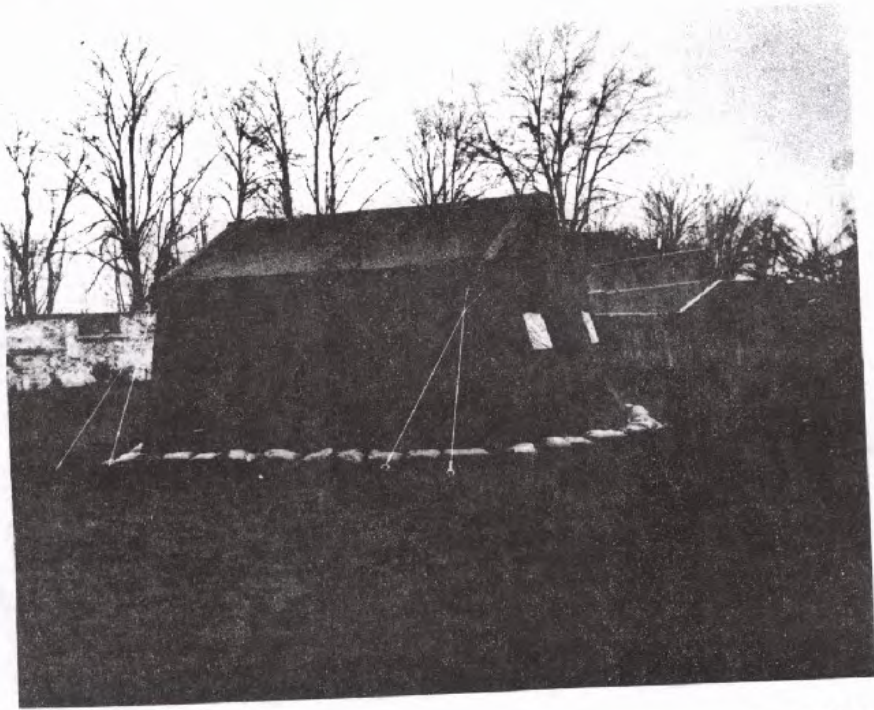
JOINT SERVICE HANDBOOK  
OF TENTAGE  
SUPPLEMENT NO 3  
SHELTER, GENERAL PURPOSE, 3.6 m x 3.6 m (12 ft x 12 ft)  
J1 8340-99-120-8579

AND

SHELTER, GENERAL PURPOSE 3.6 m x 3.6 m (12 ft x 12 ft)  
EXTENSION  
J1 8340-99-135-9601  
INSTRUCTIONS FOR PITCHING, STRIKING AND PACKING

DESCRIPTION

1. The shelter consists of a polyester/cotton cover supported by a frame of light alloy tubing. Its general configuration is shown at Fig 1.



3788-8

Fig 1 - Shelter, GP, 3.6 m x 3.6 m (12 ft x 12 ft)

2. The frame is built from three different components.
  - a. Aluminium poles 71½ in long (1.8 m) OD (32 mm)
  - b. 4-way cast light alloy brackets for connecting the poles at the eaves and ridge.
  - c. T-brackets for connecting the poles at ground level to the wall poles.
3. The fabric from which the cover is made is woven from cotton covered polyester core yarn. It is of ripstop construction and is given an FWR (flame retardant, water repellent, rot resistant) finish.
4. The cover is made up by lacing a single sheet, constituting the roof and side walls, to two end sections. These two end sections are identical and each has a centre opening from ridge to floor, fitted with loops and toggles as a simple and reliable method of fastening.
5. Two windows are incorporated in each side wall. The apertures are fitted with translucent plastic sheets which fasten in either the open or closed positions. Two further windows, with fixed translucent sheets, are fitted in each canvas end. Blackout curtains are provided for all four windows.
6. There are ventilators in the roof and netting panels in the canvas ends. A roof liner provides insulation and reflective light. An insulated aperture, situated in the roof canvas, accommodates a flue pipe so that a heater can be used.
7. The mud cloth is of ample width. It is made from coated synthetic fabric which ensures good strength and rot resistance and also acts as a water repellent.
8. The shelter is self-supporting, but in order to ensure stability, the mud cloth should be weighted with sandbags or other suitable ballast. Under high wind conditions, shelter lashings are positioned over the shelter covering the lace-up joints and then pegged to the ground. A webbing tie is attached to one end of each lashing and provides the means of tenting the lashing when the shelter is erected.
9. The shelter is so designed as to be extended in length by multiples of 3.6 m (12 ft) by using J1 8340-99-135-9601.

WEIGHT AND DIMENSIONS

10. Weight	109.7 kg (242 lb)
Pitching space	6.4 m x 6.4 m (21 ft x 21 ft)
Floor space	3.6 m x 4.6 m (12 ft x 15 ft)
Height at ridge	2.7 m (8 ft 10 in)
Height at eaves	1.8 m (6 ft)
Width at eaves	3.6 m (12 ft)
Cubic	0.44 m <sup>3</sup> (15.5 ft <sup>3</sup> )

This page does not contain any part of the text for this supplement so that the list of components faces the illustration.

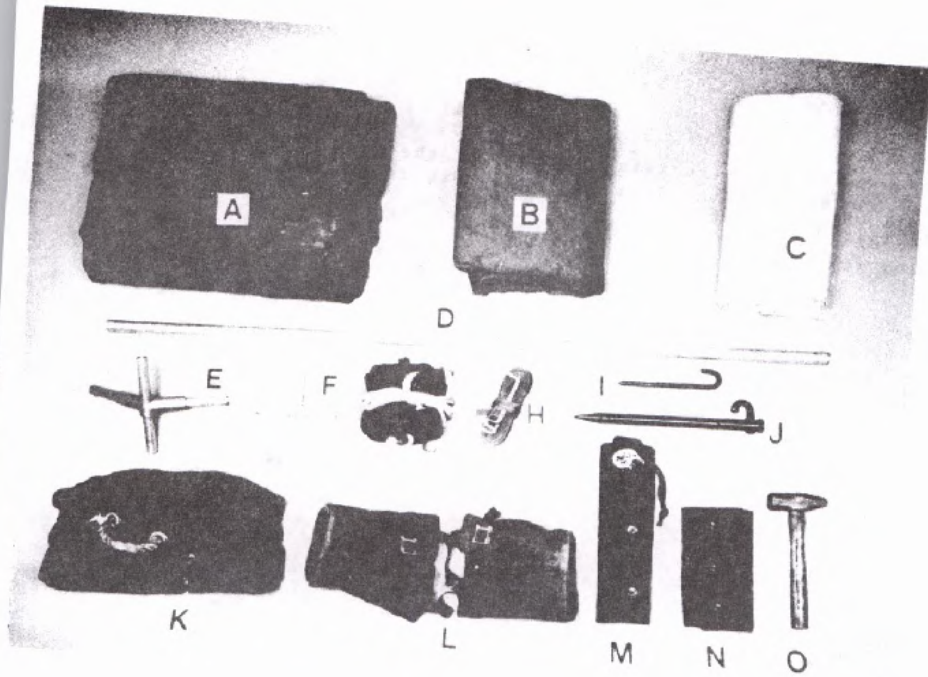


Fig 2 - Components A to O

3788-35A



**COMPONENTS**

11. The components of one complete shelter and one complete shelter extension consist of the following items which are illustrated in Fig 2.

Key See Fig 2	Item	Catalogue number	Quantity	
			per shelter	per extension
L	Bag, ends, shelter frame	J1/8340-99-120-7747	1	1
M	Bag, shelter frame	J1/8340-99-120-7746	1	1
N	Bag, tent, pin	J1/8 40-99-120-7745	1	1
B	Canvas, shelter, end section	J1/8340-99-120-8577	2	NIL
A	Canvas, shelter, roof and walls.	J1/8340-99-122-7593	1	1
F	Frame shelter, base wall member	J1/8340-99-120-6727	6	4
E	Frame, shelter, bracket	J1/8340-99-120-6726	9	6
D	Frame, shelter, universal member	J1/8340-99-120-6725	22	18
O	Hammer hand	F1/5120-99-910-4703	1	1
G	Lashing, shelter 14 ft 6 in	J1/8340-99-122-5752	2	1
C	Liner, shelter, roof	J1/8340-99-122-5199	1	1
I	Pin, tent, steel 10 in	J1/8340-99-120-3855	24	6
J	Pin, tent, steel 18 in	J1/8340-99-943-9052	10	6
H	Tie, webbing, QR, 26 ft 3 in	J1/5340-99-127-7461	2	1
K	Valise, tent	J1/8340-99-942-4685	1	1

GENERAL INSTRUCTIONS

12. It is desirable that the shelter is pitched on firm, level ground.
13. It is essential that adequate ballast is placed on the coated fabric cloth at the bottom of the walls and ends of the shelter. Spoil from drainage trenches is suitable for this purpose, and may be used in sandbags or other flexible containers.

WARNING

14. It cannot be too strongly emphasized that the successful erection of these shelters depends upon using sufficient personnel when lifting the assembled roof, that is one man to each wall member. Also, 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.

INSTRUCTIONS FOR PITCHING

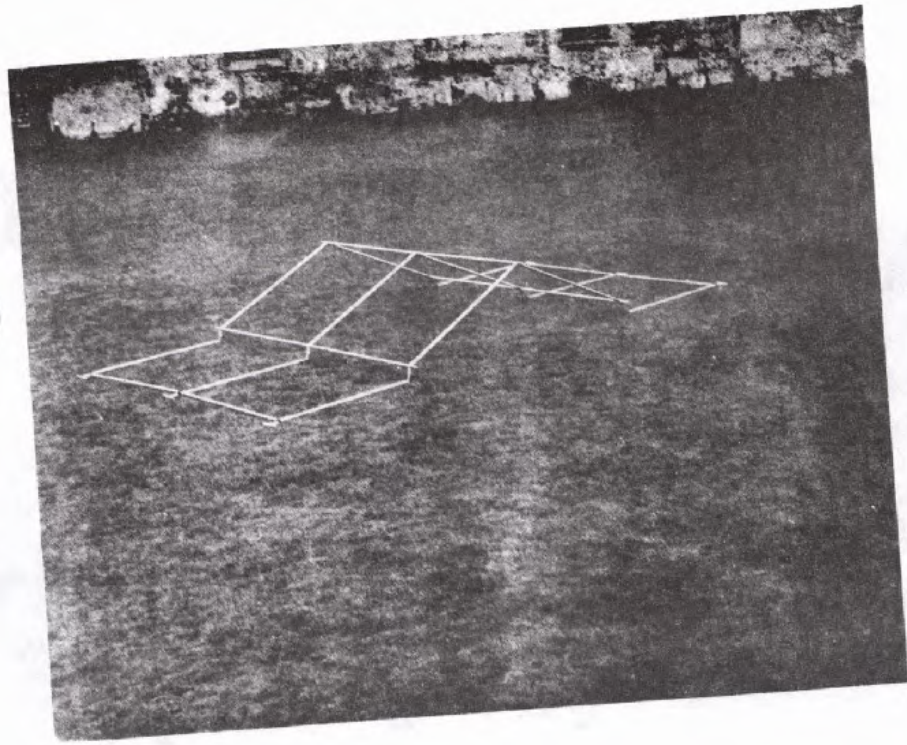
15. The following photographs Figs 3 to 15 show the method of pitching. The ground plan is at Fig 16. Personnel required are:

Pitching party

- five men

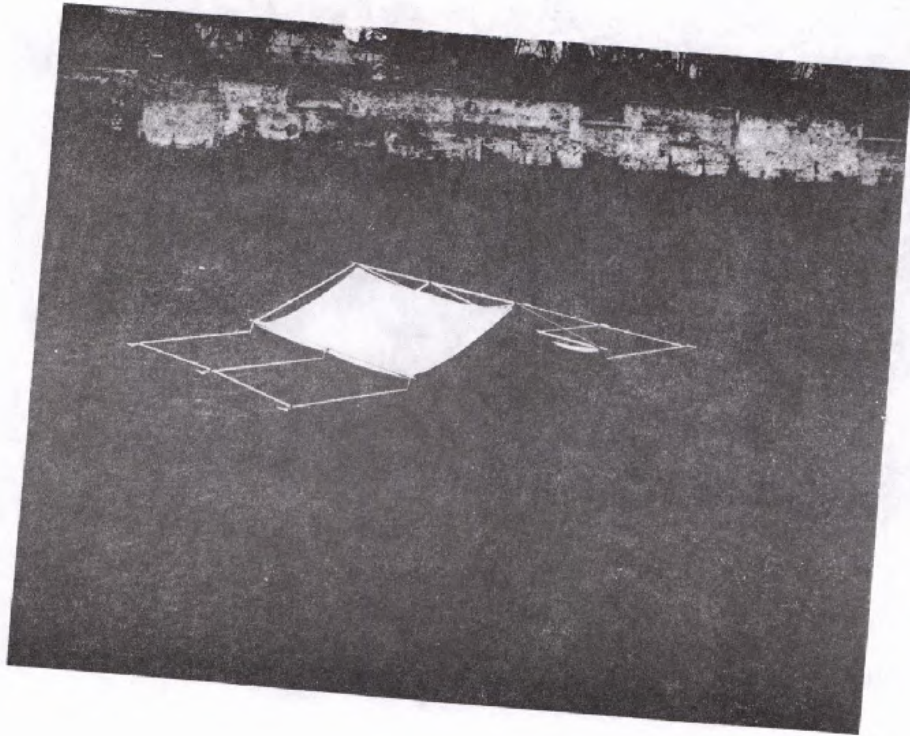
Additional for each 12 ft extension

- two men



3788-1

Fig 3 - Layout frame components and assemble roof members



3788-2  
Fig 4 - Fit roof liner to the assembled roof frame. Attach loops and toggles to the ridge poles. Fasten tie tapes to the eave brackets.



3242-7

Fig 5 - Lay out covers, inside uppermost. Lace together, starting at the ridge.

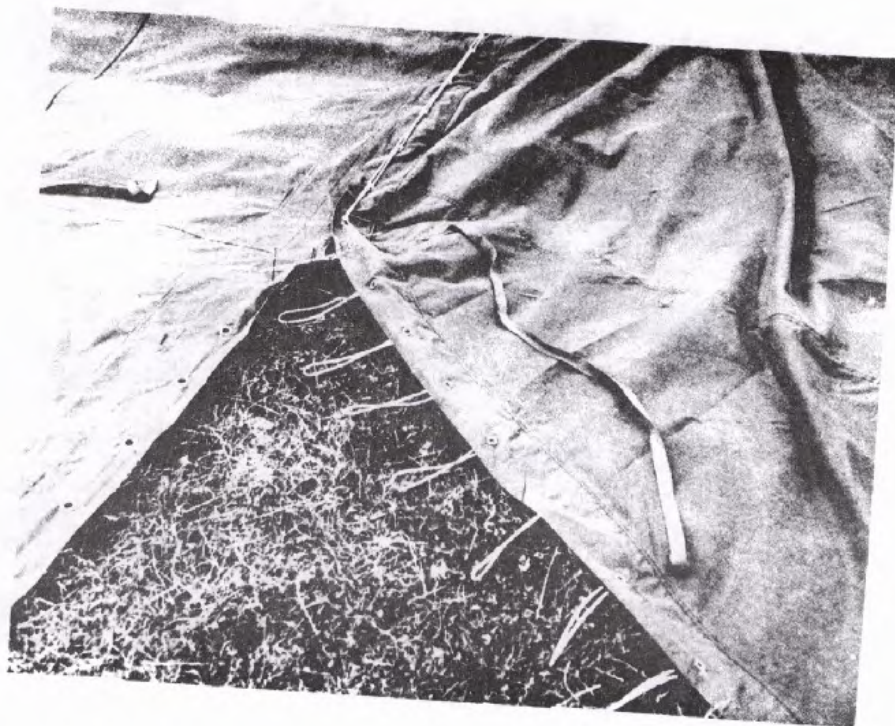


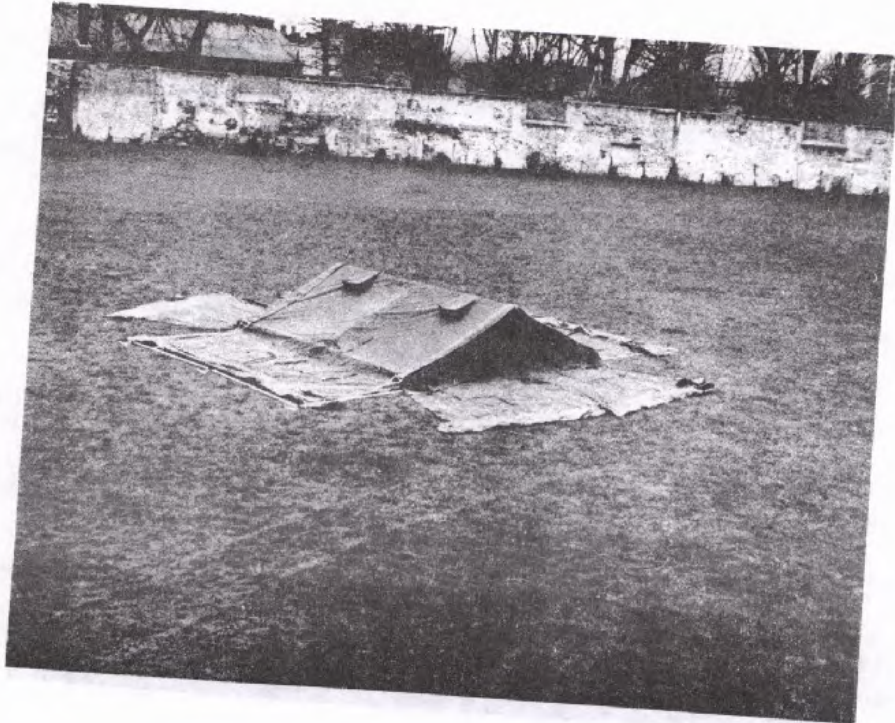
Fig 6 - Continue the lacing down to the eaves, then tie

3242-13



3788-3

Fig 7 - Lay cover over the assembled roof and fit bracket ends into the sleeves provided on the end covers.



3788-4  
Fig 8 - Lay the two shelter lashings over the cover as shown





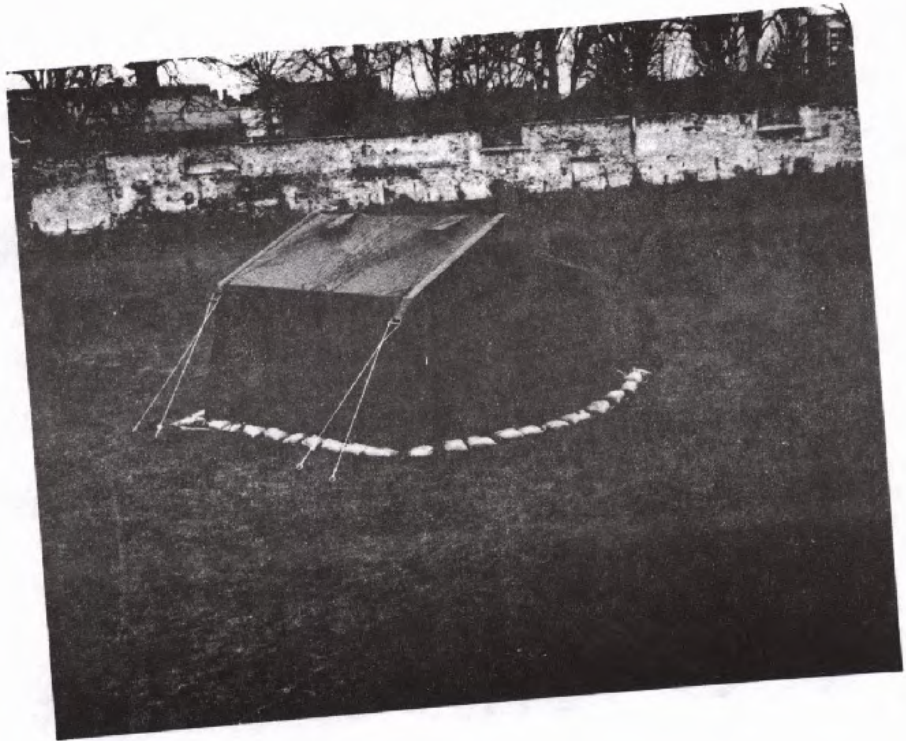
3788-5

Fig 9 - Raise one side of the roof and fit wall and ground members. One man is required for each wall member and the lift must be even to avoid damage to the frame.



Fig 10 - Raise the other side of the roof and fit wall and ground members

3788-6



3788-7

Fig 11 - Lace up covers from eaves to ground. Peg down shelter cover and lashings. Ballast coated fabric at base of walls, and ends. The awnings on the cover ends may be either fastened down or pegged out in the open position, as shown.

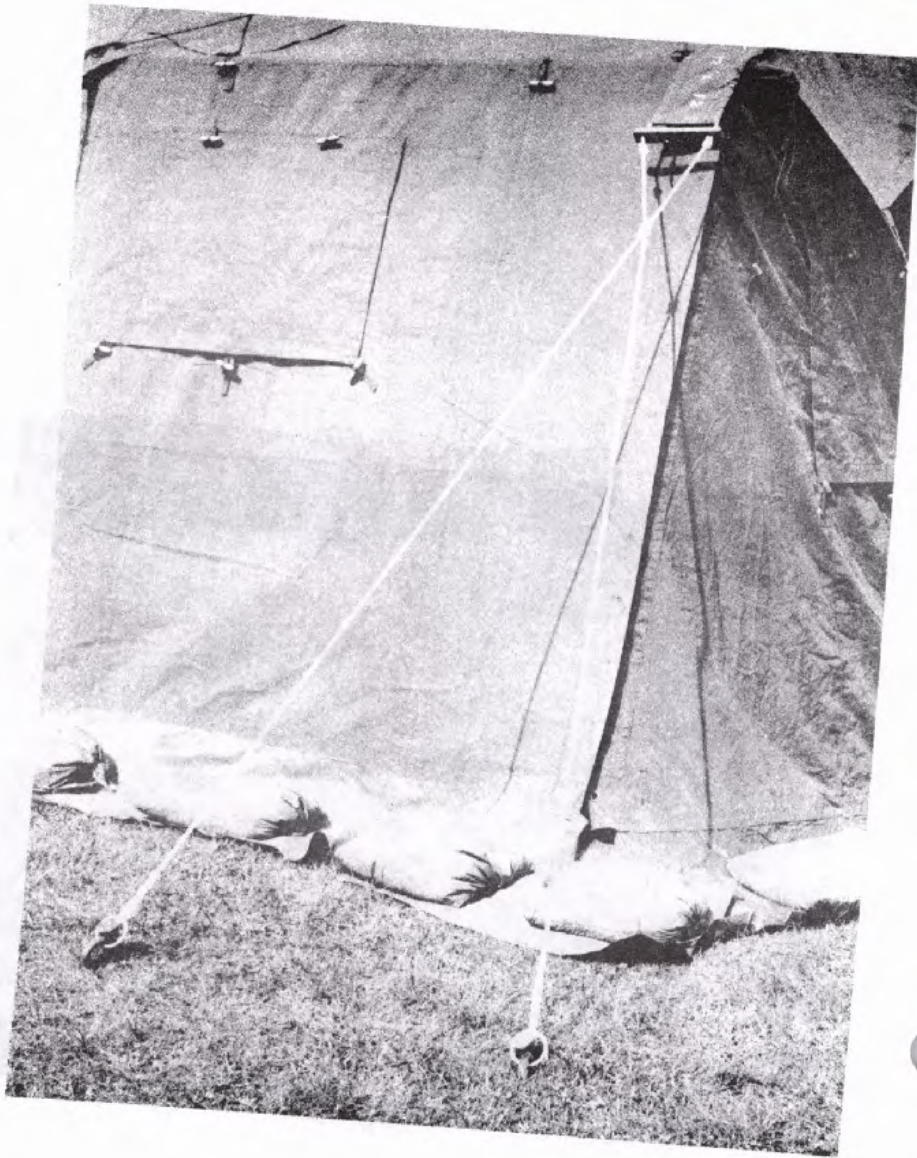


Fig 12 - Lashing

3788-18



3788-19

Fig 13 - The webbing

# METHOD OF FASTENING THE 2-BAR TYPE, TIE, WEBBING, QUICK RELEASE

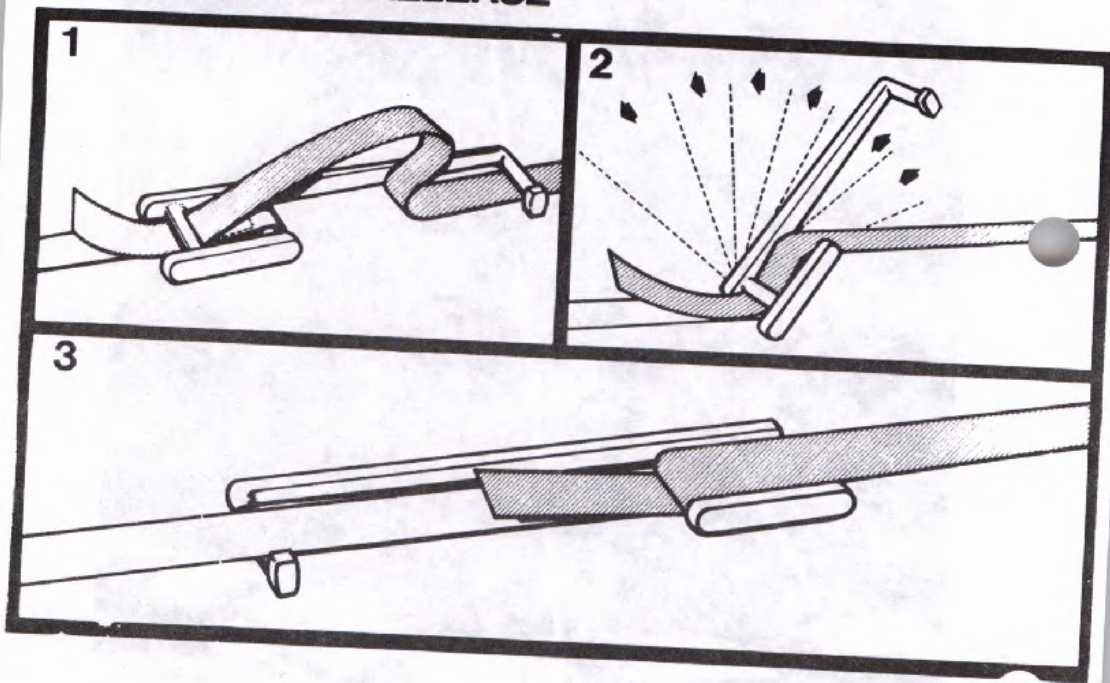
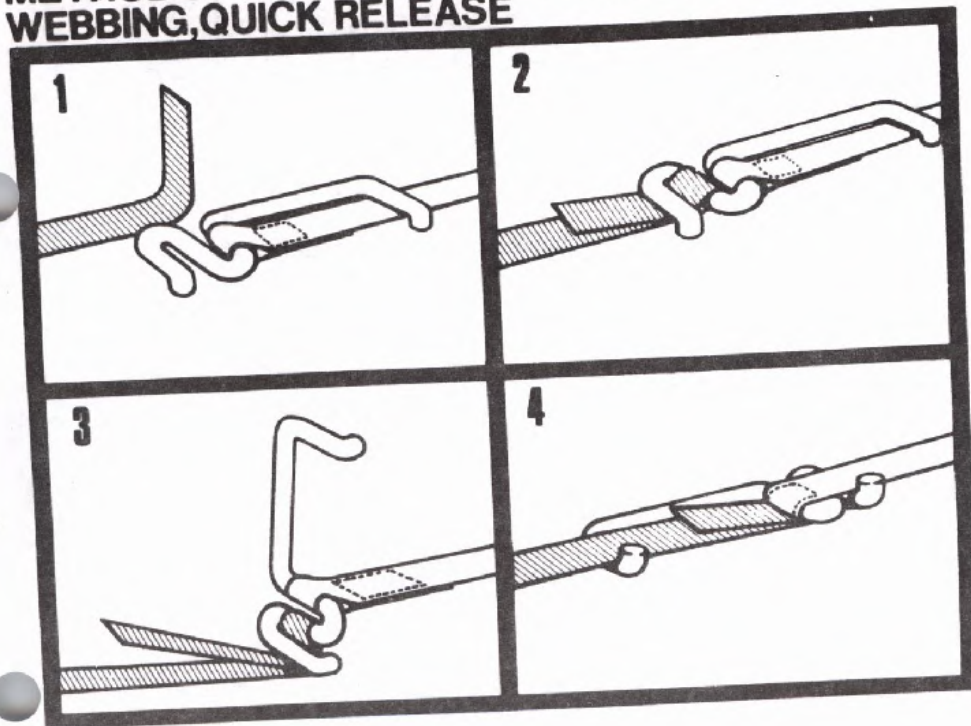


Fig 14 - Method of fastening the 2-bar type, tie, webbing, quick release

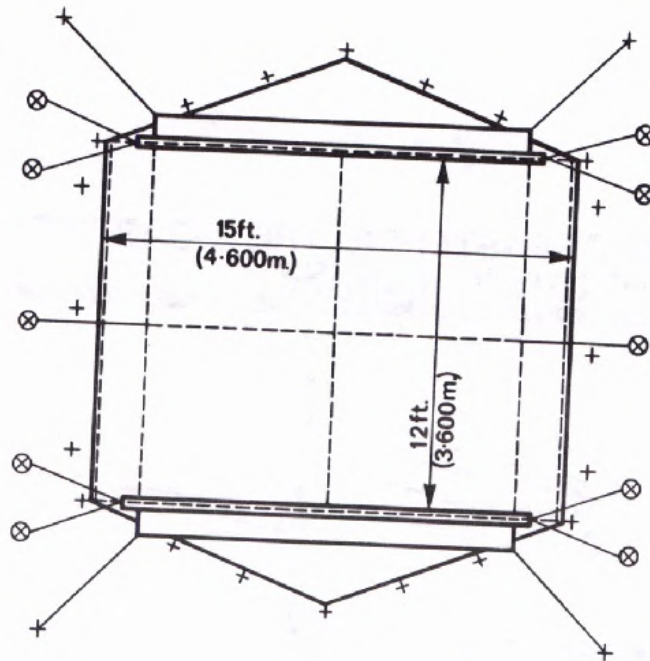
3725-4A

**METHOD OF FASTENING THE 3-BAR TYPE, TIE,  
WEBBING, QUICK RELEASE**



3725-4B

Fig 15 - Method of fastening the 3-bar type, tie, webbing, quick release.



⊗ PIN, TENT (18 ins. 457mm.)

+ PIN, TENT (10 ins. 254mm.)

BROKEN LINE INDICATES  
POSITION OF FRAME

**GROUND PLAN.**

SHELTER GENERAL PURPOSE  
12 ft. x 12 ft. (3.6m. x 3.6m.)

FIGURE 16

Fig 16 - Ground plan

8380A-2



EXTENDING THE SHELTER

16. The shelter may be extended by units of 3.6 m (12 ft). The method is shown in Figs 17 to 23 which follow

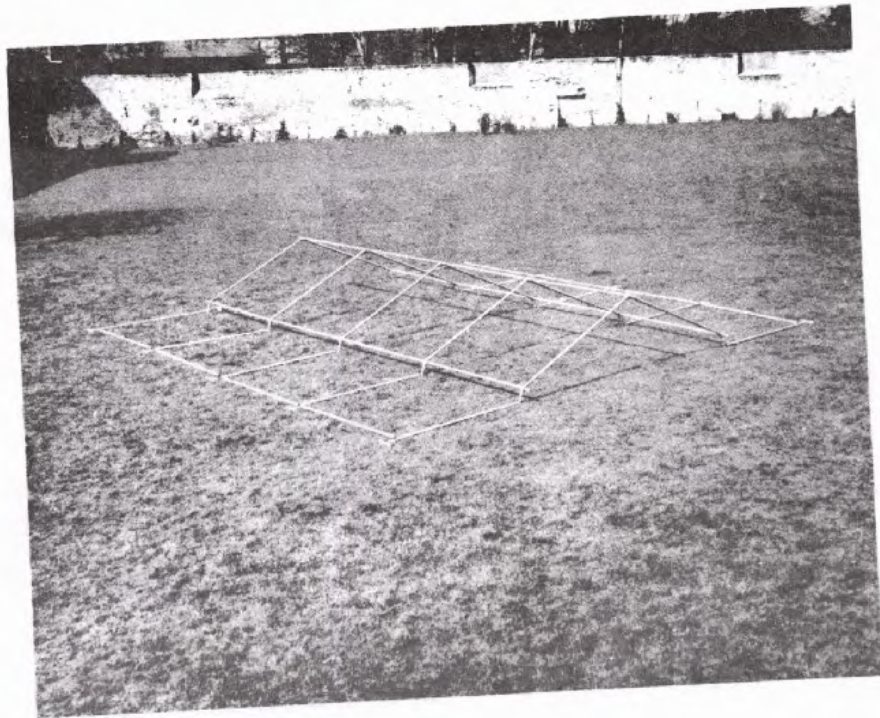


Fig 17 - Lay out framework and assemble roof members

3788-10



Fig 18 - Fit roof liners to the assembled roof frame

3788-11



3788-12

Fig 19 - Lace covers together as shown in Figs 5 and 6.  
Lay the covers over the assembled roof frame  
and fit bracket ends into the sleeves provided  
on the end.

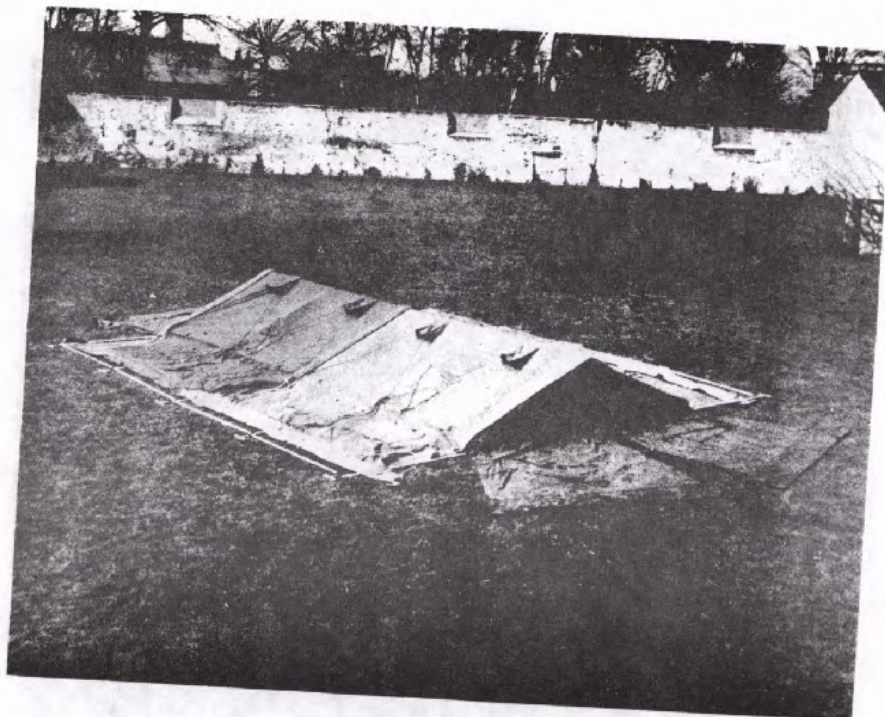


Fig 20 - Lay the three shelter lashings over the cover  
as shown

3788-13



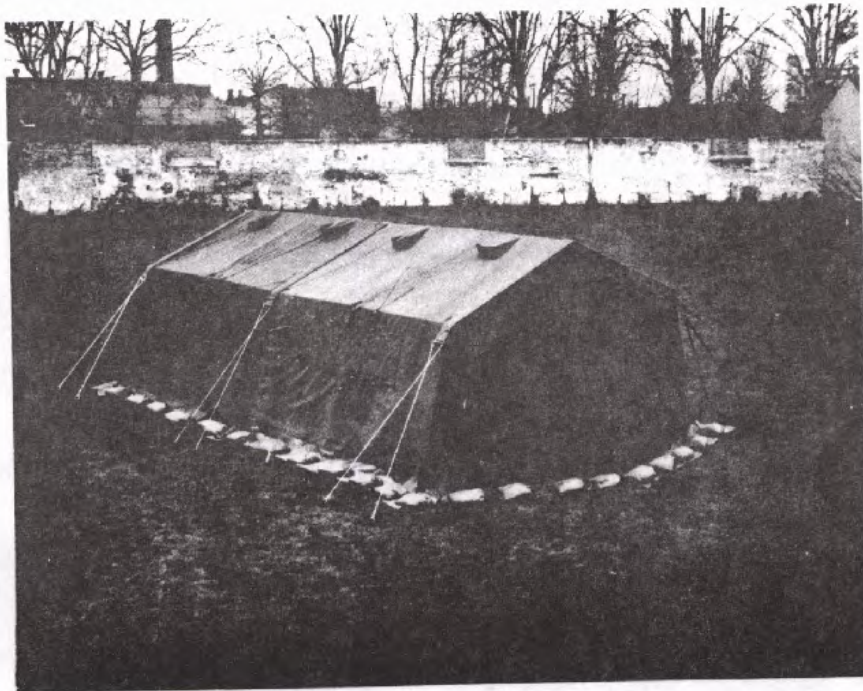
3788-14

Fig 21 - Raise one side of the roof and fit wall and ground members. One man is required for each wall member and the lift must be even to avoid damage to the frame.



Fig 22 - Raise the other side of the roof and fit the  
wall and ground members

3788-15



3788-16

Fig 23 - Lace up the covers from eave to ground. Peg down the shelter cover and lashings. The awning on the cover ends may be either fastened down or pegged out in the open position as shown.

FURTHER EXTENSION

17. The shelter may be extended in length by further 3.6 m (12 ft) units. For each 12 ft extension the items listed under components for each 12 ft extension are required.

ERECTING THE SHELTER USING A FULL LINER

18. The following pages show the method of fitting a full liner to the shelter. A full liner is provided for specialist use and will be issued only when authorized by the Ministry of Defence.

19. The components listed below are required for attachment to the existing shelter, liner, roof section, white (J1/8340-99-122-5199)

Shelter liner end section white  
J1/8340-99-122-5198

Qty 2

Shelter liner wall section, white  
J1/8340-99-122-5200

Qty 2

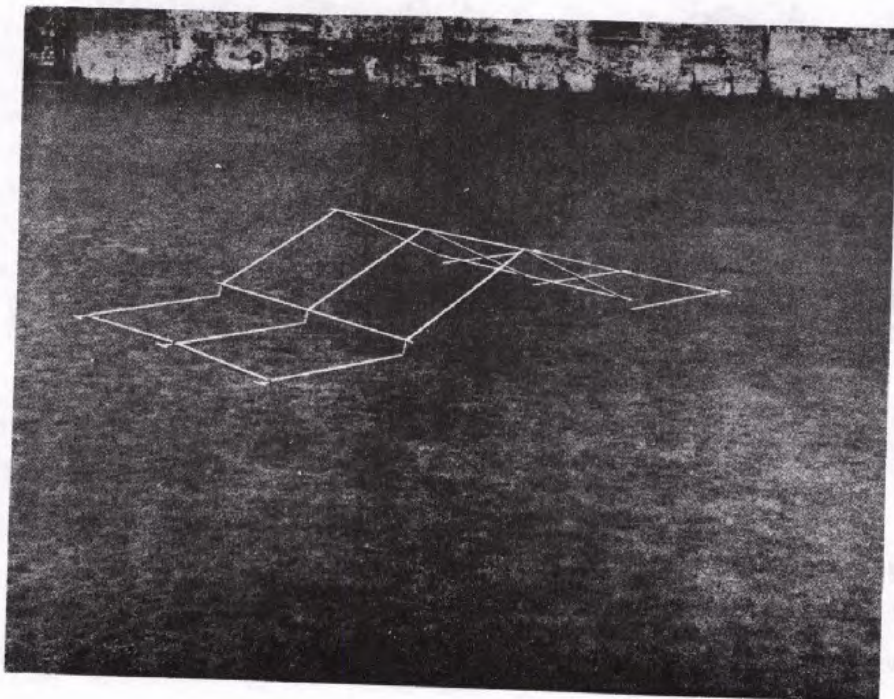
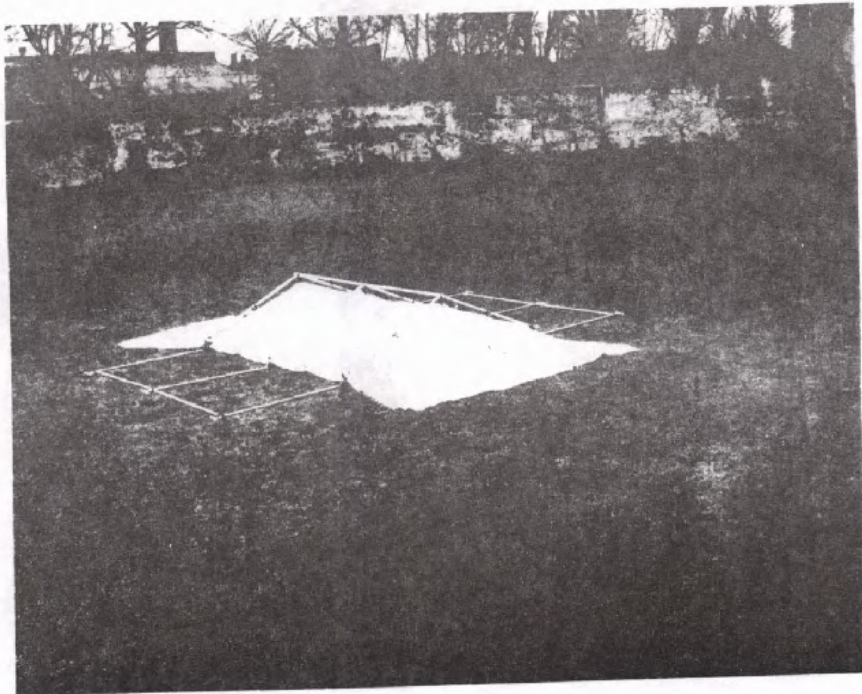


Fig 24 - Lay out frame components and assemble roof members

3788-1





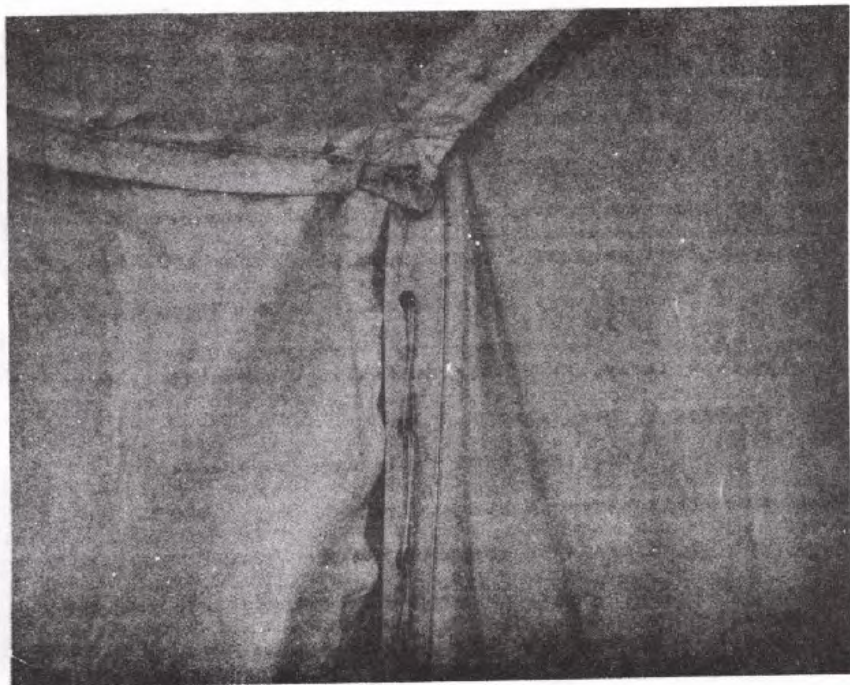
3788-20

Fig 25 - Lace the roof and end liner sections together commencing at the ridge and tying off at the eaves. (Walls are not fitted at this stage.) Attach the liner to the inside of the assembled roof as shown.



3788-33

Fig 26 - Follow erection instructions shown in Figs 3 to 10.  
After stage 10 fit liner walls by lacing the walls  
to the eaves of the roof.



3788-34

Fig 27 - Lace the ends and walls together from the eaves to the ground. Proceed with the shelter erection as shown in Figs 11 to 15

INSTRUCTIONS FOR STRIKING

20. Warning - Wet Canvas Wet canvas should never be folded or packed unless circumstances render this unavoidable. Shelters should therefore be left to dry thoroughly before they are struck. Should it be necessary to strike a shelter when the canvas is not perfectly dry, strict compliance is essential with the instruction given in para 26 below.

21. Striking is carried out in the reverse order to pitching.

INSTRUCTIONS FOR FOLDING

22. a. Lay out canvas with outer side uppermost.  
b. Fold walls into ridge.  
c. Fold once more in the same manner.  
d. Fold over at ridge and fold ends to centre.  
e. Finally, roll to form smallest possible package.

23. Folding - shelter canvas end

- a. Lay out canvas with outer side uppermost.  
b. Fold in half at door opening.  
c. Fold the top and side in to form a square and then fold in half.  
d. Finally, roll to form smallest possible package.

24. Folding - roof liner

- a. Lay out liner with inner side uppermost  
b. Fold sides to ridge.  
c. Fold again in the same manner.  
d. Finally, roll to form smallest possible package.

INSTRUCTIONS FOR PACKING

25. All components are to be packed into standard packs as shown in the contents of packs listed below.

26. Wet canvas should never be folded and packed unless circumstances render this unavoidable. When it becomes necessary to pack canvas in a wet condition the packages are to be marked clearly 'NOT DRY' to indicate that the canvas was packed in a wet condition. If the canvas is being retained on the camp site, the officer in charge is to be notified of the condition so that he can arrange for it to be dried at the earliest opportunity. If the canvas is to be dispatched, the consignee is to be notified by telephone or signal so that the canvas can be unpacked and dried as soon as possible after receipt.

CONTENTS OF PACKS

27. When packed, the components of one complete tent are packed into four packs as follows:

a.	<u>Pack no 1 (valise)</u>	
	Valise, tent	1
	Canvas, shelter, roof and walls	1
	Canvas, shelter, end section	2
	Liner, shelter, roof	1
	Lashing, shelter, 14 ft 6 in	2
	Tie, webbing, QR, 26 ft 3 in	2
b.	<u>Pack no 2 (bag)</u>	
	Bag, ends shelter frame	1
	Frame, shelter universal member	22
c.	<u>Pack no 3 (bag)</u>	
	Bag, shelter frame	1
	Frame, shelter, bracket	9
	Frame, shelter, base, wall member	6
d.	<u>Pack no 4 (bag)</u>	
	Bag, tent, pin	1
	Pin, tent, steel 10 in	24
	Pin, tent, steel 18 in	10
	Hammer, hand	1



**JSP 361/4**

**JOINT SERVICE HANDBOOK  
OF TENTAGE**

**SUPPLEMENT No 4**

**SHELTER, GENERAL PURPOSE 7.3 m x 5.5 m  
(24 ft x 18 ft)  
JI 8340-99-132-0000**

**AND  
SHELTER, GENERAL PURPOSE 7.3 m x 5.5 m  
(24 ft x 18 ft)  
EXTENSION  
JI 8340-99-135-6217**

**INSTRUCTIONS FOR PITCHING, STRIKING  
AND PACKING**

By Command of the Defence Council

**MINISTRY OF DEFENCE  
MARCH 1981**

AMENDMENTS

Amendment number	Date of insertion	By whom amended	Amendment number	Date of insertion	By whom amended

DISTRIBUTION

ROYAL NAVY

As authorized by OS (NPS)

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ROYAL AIR FORCE

As authorized by APFS

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Warning	6
Instructions for pitching	17
Extending the shelter	22
Further extension	23
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15 Lay out framework and assemble roof members	17
16 Lace covers together. Lay the covers over the assembled roof frame and fit bracket ends into the sleeves provided on the end.	18
17 Lay the three shelter lashings over the cover as shown	19
18 Raise one side of the roof and fit wall and ground members. One man is required for each wall member	20



- 19 Raise the other side of the roof and fit the wall and ground members. 21
- 20 Lace up the covers from eave to ground. Peg down the shelter cover and lashings. The awning on the cover ends may be either fastened down or pegged out in the open position as shown. 22
- 21 Lay out the frame components and assemble roof members 23
- 22 Lace the roof and end liner sections together, commencing at the ridge and tying off at the eaves. (Walls are not fitted at this stage.) Attach the liner to the inside of the assembled roof as shown. 24
- 23 Follow erection instructions shown in Figs 4 to 11. After stage 11 fit liner walls by lacing the walls to the eaves of the roof. 25
- 24 Lace the ends and walls together from the eaves to the ground. Proceed with the shelter erection as shown in Figs 12 and 13. 26

FOREWORD

1. Personnel are advised to make themselves conversant with contents of JSP 361 Chapters 1 and 2.

WARNING - WET CANVAS

2. Wet canvas should never be folded or packed unless circumstances render this unavoidable. Whenever it becomes necessary to pack canvas in a wet condition, action must be taken in accordance with the instructions given in para 23.

JOINT SERVICE HANDBOOK  
OF TENTAGE  
SUPPLEMENT NO 4  
SHELTER, GENERAL PURPOSE, 7.3 m x 5.5 m  
(24 ft x 18 ft)  
J1 9340-99-132-0000  
AND  
SHELTER, GENERAL PURPOSE, 7.3 m x 5.5 m  
(24 ft x 18 ft)  
EXTENSION  
J1 8340-99-135-6217  
INSTRUCTIONS FOR PITCHING, STRIKING  
AND PACKING

DESCRIPTION

1. The Shelter, general purpose, 24 ft x 18 ft consists essentially of a polyester/cotton cover supported by a frame of light alloy tubing. Its general configuration is shown at Fig 1.

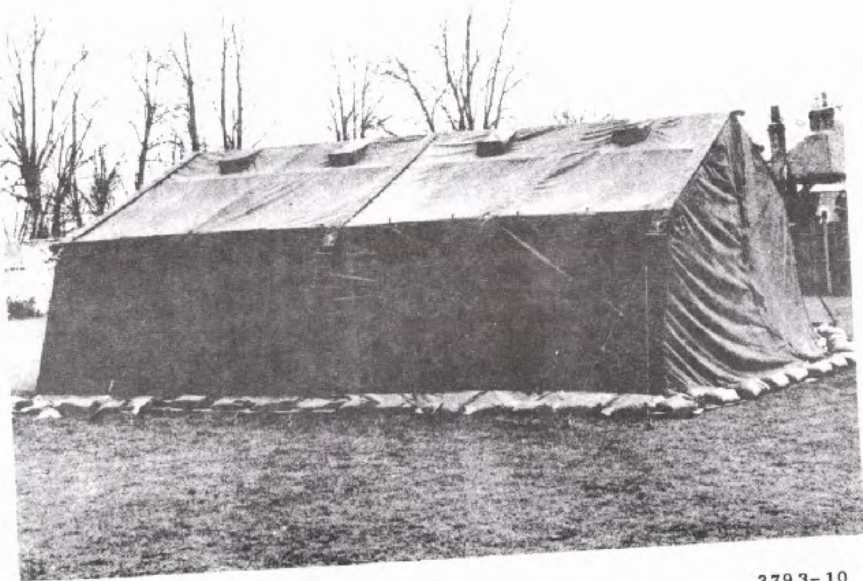


Fig 1 - Shelter, GP, 7.3 m x 5.5 m (24 ft x 18 ft)

3793-10

2. The frame is built from five different components:
  - a. Aluminium poles, 71½ in long (1.8 m) 2 in OD (51 mm)
  - b. Aluminium poles, 36 in long (0.9 m) 2 in OD (51 mm)
  - c. 4-way cast light alloy brackets for connecting the poles at eaves and ridge.
  - d. 4-way cross-shaped, cast light alloy brackets for connecting the long poles and the short poles (rafters) to the purlins.
  - e. T-brackets for connecting the poles at ground level to the wall poles.
3. The fabric from which the cover is manufactured is woven from cotton covered polyester core yarns. It is of ripstop construction and is given an FWR finish (flame retardant, water repellent and rot resistant).
4. The cover is made up by lacing two identical sheets, constituting the roof and side walls, to two end sections. These two end sections are identical and each has a centre opening from ridge to floor, fitted with loops and toggles as a simple and reliable method of fastening.
5. Two windows are incorporated in each wall section. The window apertures are fitted with a translucent plastic sheet which may be fastened in the open or closed position. Blackout covers are also provided. Additional ventilation is provided by four ventilators fitted in each roof section.
6. The shelter is self-supporting, but in order to ensure stability it is provided with a mud cloth which should be weighted with sandbags or other suitable ballast. This mud cloth is of coated synthetic fabric and is of ample width. It is strong and rot resistant and also acts as a water repellent. Under high wind conditions shelter lashings are positioned over the shelter, covering the lace-up joints and then pegged to the ground. A webbing tie is fitted to one end of each lashing and provides the method of tensioning the lashing when the shelter is erected.
7. The shelter is so designed to be extendable in length by multiples of 3.6 m (12 ft) by using extension 8340-99-135-6217.



3793-11

Fig 2 - Shelter, GP, 24 ft x 18 ft with side wall raised and one end opened.

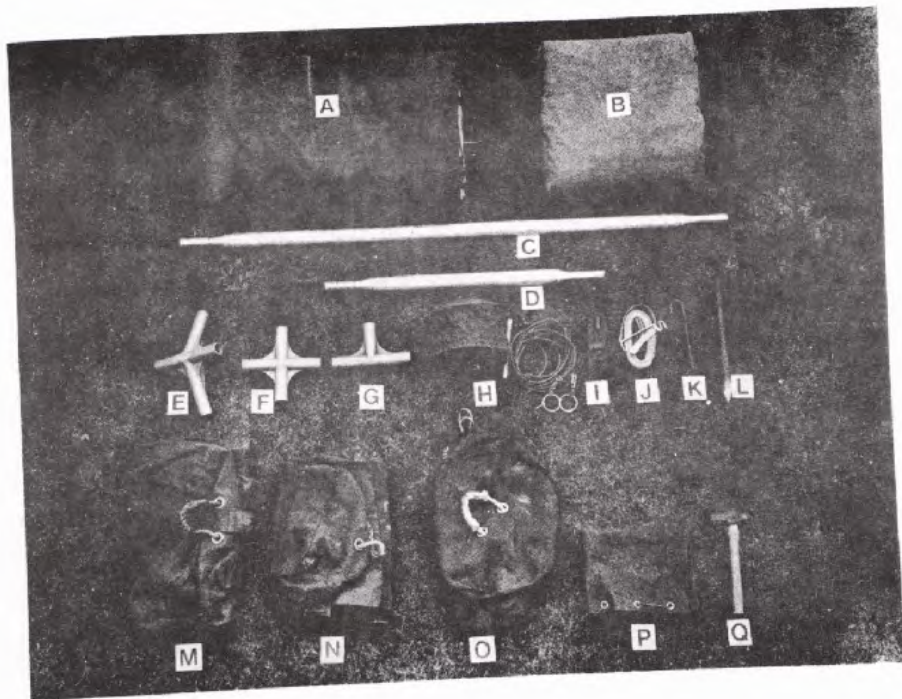
WEIGHT AND DIMENSIONS

8.	Weight	250 kg (550 lb)
	Pitching space	9.15 m x 8.53 m (30 ft x 28 ft)
	Floor space	7.3 m x 6.4 m (24 ft x 21 ft)
	Height at ridge	3.3 m (11 ft)
	Height at eaves	1.8 m (6 ft)
	Width at eaves	5.5 m (18 ft)
	Cubic	1 m <sup>3</sup> (35 ft <sup>3</sup> )

COMPONENTS

9. The components of one complete shelter and shelter extension are listed below and are illustrated at Fig 3.

Key see Fig 3	Item	Catalogue number	Quantity	
			per shelter	per extension
O	Bag, shelter frame	J1/8340-99-132-0004	1	1
P	Bag, tent pin	J1/8340-99-120-7745	2	1
B	Canvas, shelter, end section	J1/8340-99-127-6019	2	NIL
A	Canvas, shelter, roof and walls	J1/8340-99-127-6018	2	1
G	Frame, shelter, base, wall member	J1/8340-99-132-0010	10	4
E	Frame, shelter, bracket, apex	J1/8340-99-132-0008	15	6
F	Frame, shelter, bracket, cross type	J1/8340-99-132-0009	10	4
D	Frame, shelter, roof member	J1/8340-99-132-0007	10	4
C	Frame, shelter, universal member	J1/8340-99-132-0006	48	22
Q	Hammer hand	F1/5120-99-910-4703	1	1
H	Lashing, shelter 6.8 m (22 ft 6 in)	J1/8340-99-122-5753	3	1
K	Pin, tent, steel, 254 mm (10 in)	J1/8340-99-120-3855	26	4
L	Pin, tent, steel, 457 mm (18 in)	J1/8340-99-943-9052	16	6
J	Tie, webbing, QR 6.5 m (21 ft 5 in)	J1/5340-99-127-7465	10	4
I	Tie, webbing, QR 8 m (26 ft 3 in)	J1/5340-99-127-7461	3	1
N	Valise, shelter frame	J1/8340-99-132-0003	2	1
M	Valise, tent	J1/8340-99-942-4685	2	1



3793-14

Fig 3 - Components A to Q

GENERAL INSTRUCTIONS:

10. It is desirable that the shelter is pitched on firm level ground.

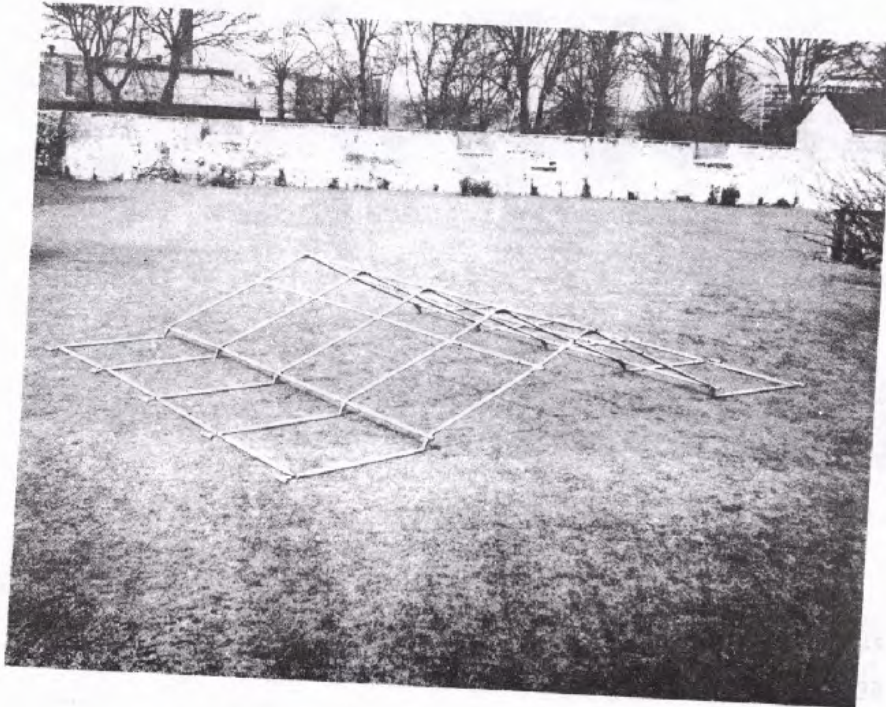
11. It is essential that adequate ballast is placed on the coated fabric cloth at the bottom of the walls and ends of the shelter. Spoil from drainage trenches is suitable for this purpose. This may be used in sandbags or other flexible containers, if available.

12. Warning It cannot be too strongly emphasized that the successful erection of these shelters depends on using sufficient personnel when lifting the assembled roof, that is one man to each wall member. Also, 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.

INSTRUCTIONS FOR PITCHING

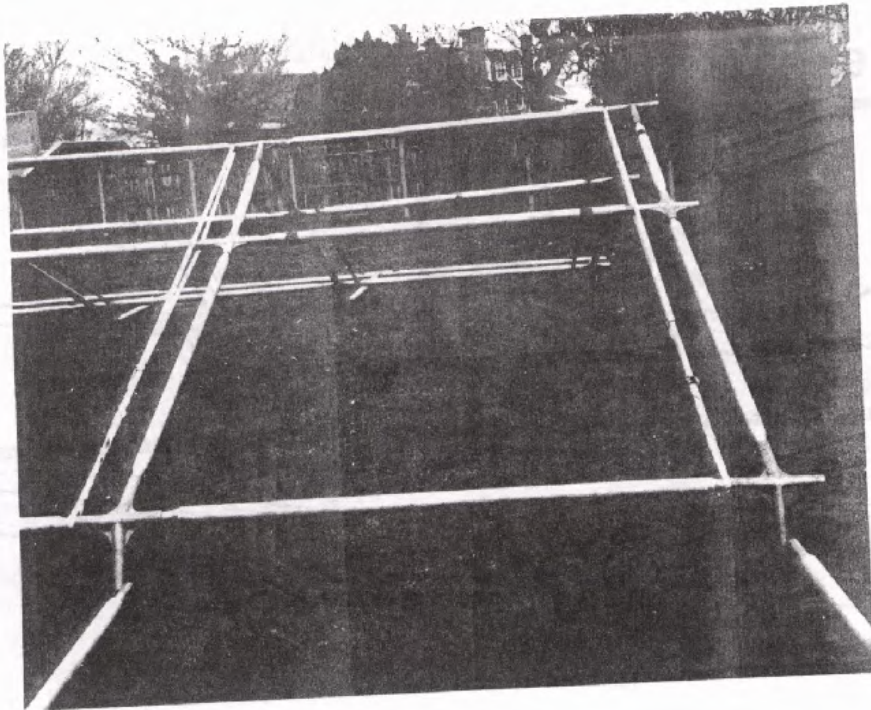
13. The following photographs Figs 4 to 14 show the method of pitching. Personnel required are:

Pitching party - five men  
Additional for each 12 ft extension - two men



3793-1  
Fig 4 - Lay out frame components and assemble roof members. There are poles of two different lengths and there are three different types of brackets; 4-way angled brackets for the ridge and eaves; 4-way flat brackets for the rafter and purlin joints; and 3-way brackets for the wall and ground members.

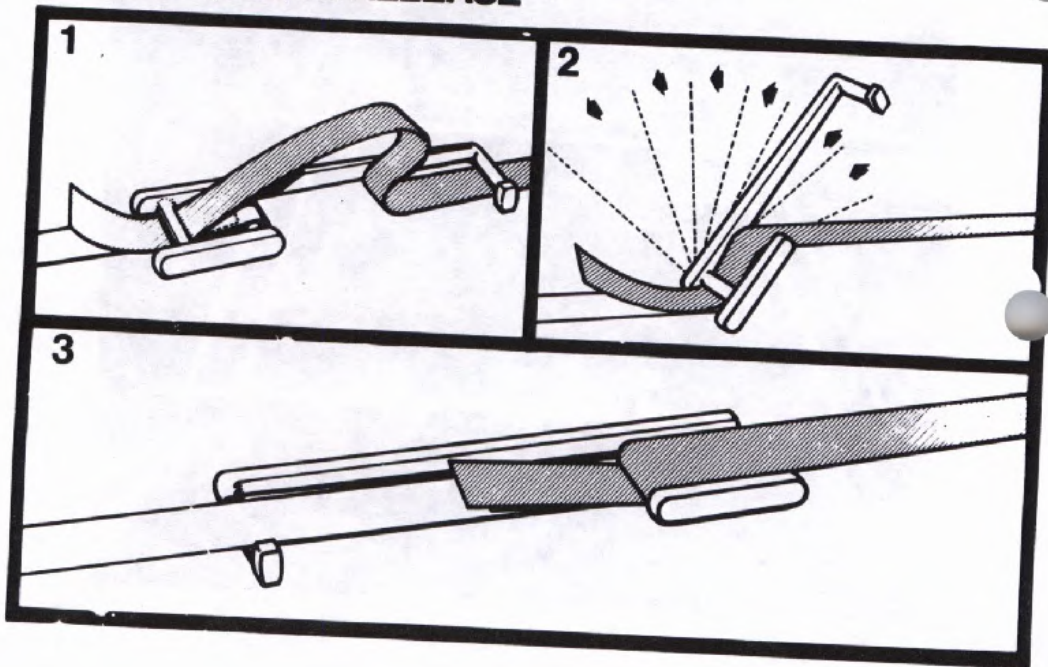




3793-3

Fig 5 - Fit ties, webbing 21 ft 5 in long as shown

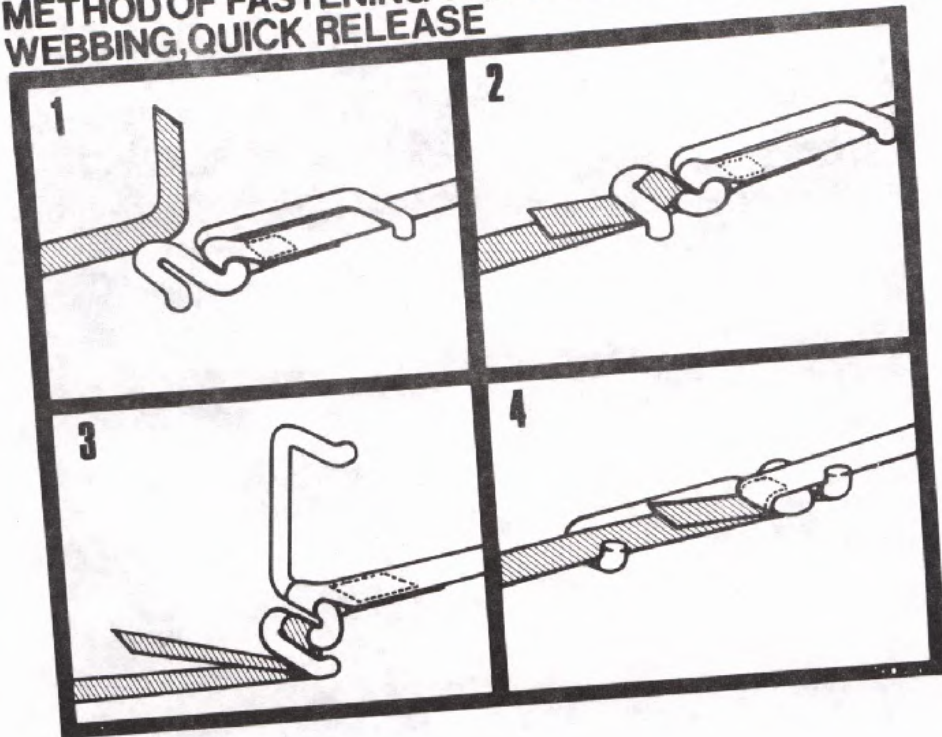
**METHOD OF FASTENING THE 2-BAR TYPE, TIE,  
WEBBING, QUICK RELEASE**



3725-4A

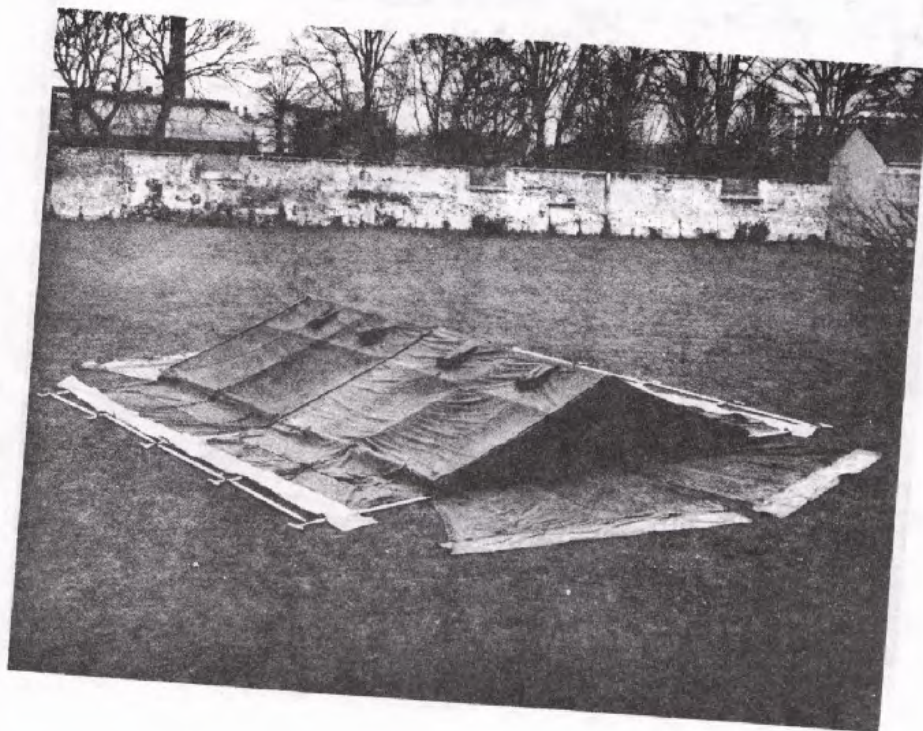
Fig 6 - Method of fastening the 2-bar type tie, quick release

**METHOD OF FASTENING THE 3-BAR TYPE, TIE,  
WEBBING, QUICK RELEASE**



3725-4B

Fig 7 - Method of fastening the 3-bar type tie, webbing  
quick release



3793-5  
Fig 8 - Lay out the four covers, inside uppermost, and lace together, starting at the ridge. Continue lacing down to the eaves, then tie off. Lay the cover over the assembled roof and fit bracket ends into the sleeves provided on the end covers.



3793-14

Fig 9 - Lay the three shelter lashings over the cover as shown.



3793-6

Fig 10 - Raise one side of the roof and fit wall and ground members. One man is required for each wall member and the lift must be even to avoid damage to the frame.



3793-8

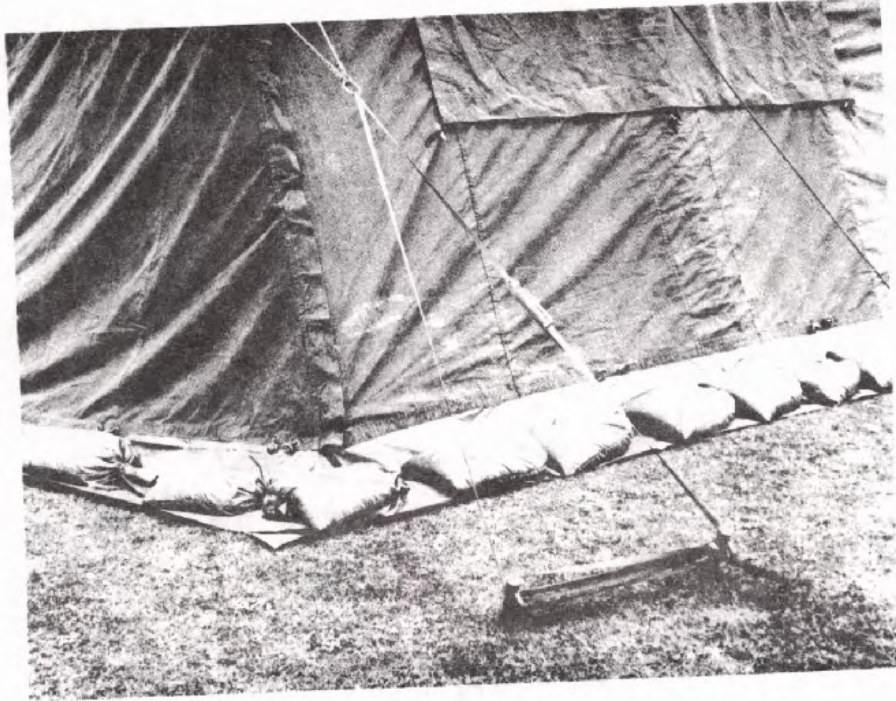
Fig 11 - Raise the other side of the roof and fit wall and ground members. Push the base of the walls inwards so that the shelter measures approx 6.4 m (21 ft)



3793-10

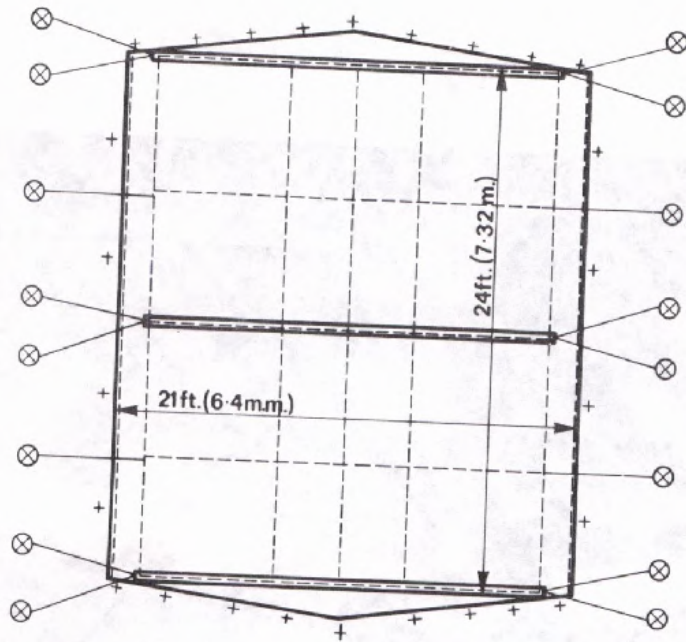
Fig 12 - Lace up covers from eave to ground. Peg out storm lashings and lines attached to cover with large 18 in pins. Peg down cover with small 10 in pins. Ballast coated fabric at the base of the walls and ends.





3793-12

Fig 13 - Method of pegging out tie webbing 26 ft 3 in long  
after attaching to storm lashing.



+ PIN, TENT 10 in. (254 mm.)  
 ⊗ PIN, TENT 18 in. (457 mm.)

BROKEN LINE INDICATES  
 POSITION OF FRAME

**GROUND PLAN**  
 SHELTER GENERAL PURPOSE  
 24 ft. x 18 ft. (7.3 m. x 5.5 m.)

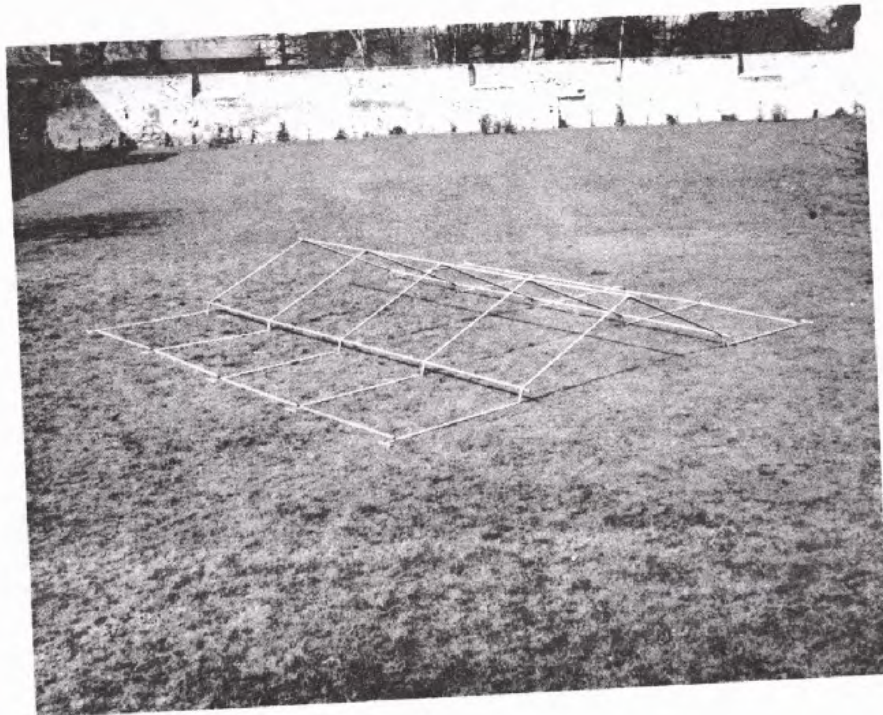
FIGURE 14

Fig 14 - Ground plan

8380A-8

EXTENDING THE SHELTER

14. The shelter may be extended by units of 3.6 m (12 ft).  
The method is shown in Figs 15 to 20 which follow:



3788-10

Fig 15 - Lay out framework and assemble roof members



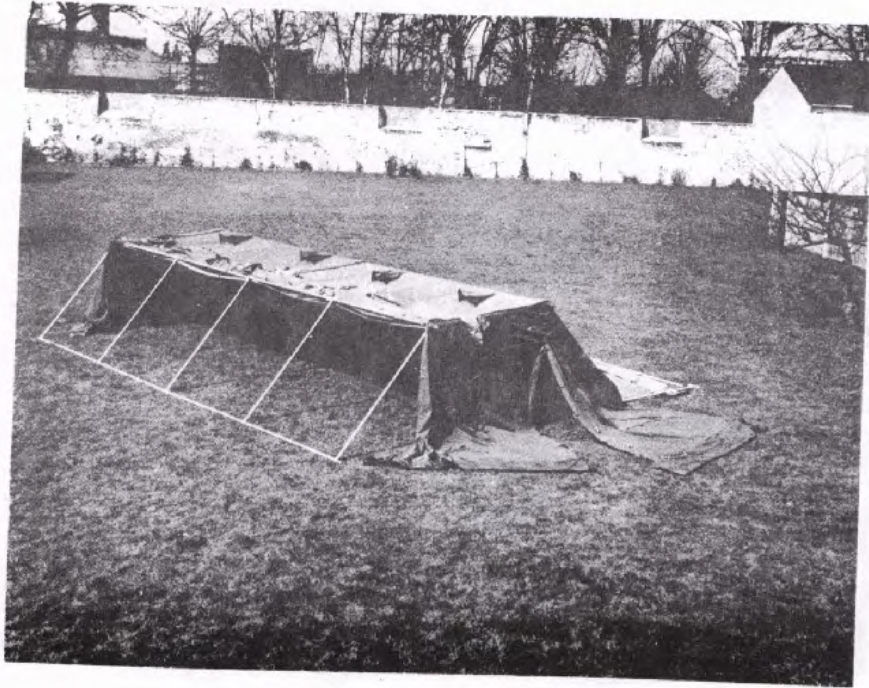
3788-12

Fig 16 - Lace covers together. Lay the covers over the assembled roof frame and fit bracket ends into the sleeves provided on the end.



3788-13

Fig 17 - Lay the three shelter lashings over the cover as shown



3788-14

Fig 18 - Raise one side of the roof and fit wall and ground members. One man is required for each wall member and the lift must be even to avoid damage to the frame.



3788-15

Fig 19 - Raise the other side of the roof and fit the wall  
and ground members.



3788-16

Fig 20 - Lace up the covers from eave to ground. Peg down the shelter cover and lashings. The awning on the cover ends may be either fastened down or pegged out in the open position as shown.

FURTHER EXTENSION

15. The shelter may be extended in length by further 3.6 m (12 ft) units. For each 12 ft extension the items listed under components for each 12 ft extension are required.

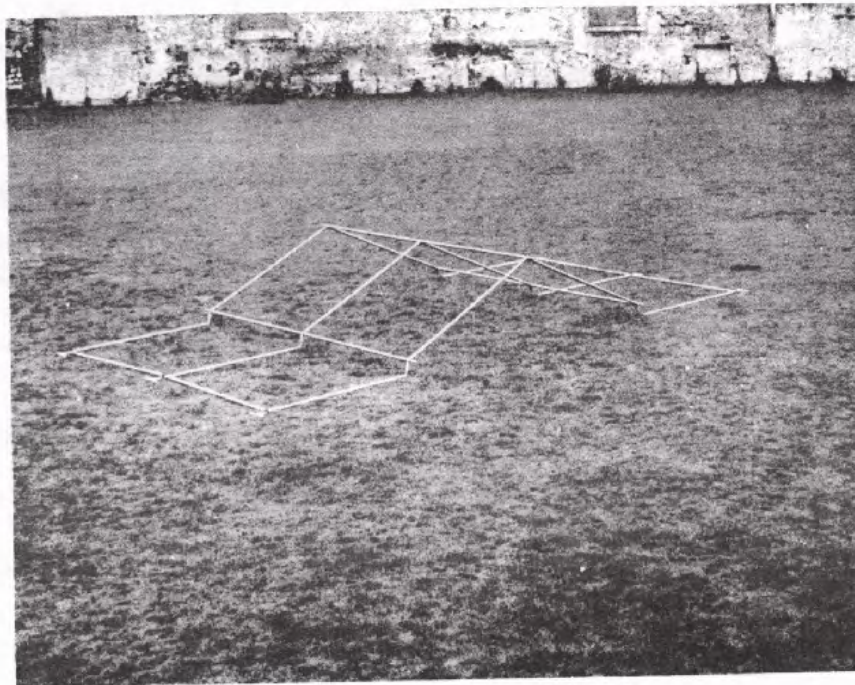


ERECTING THE SHELTER USING A FULL LINER SET

16. A liner set catalogue number J1/8340-99-130-2182 is available when authorized by MOD. The liner set consists of the following items:

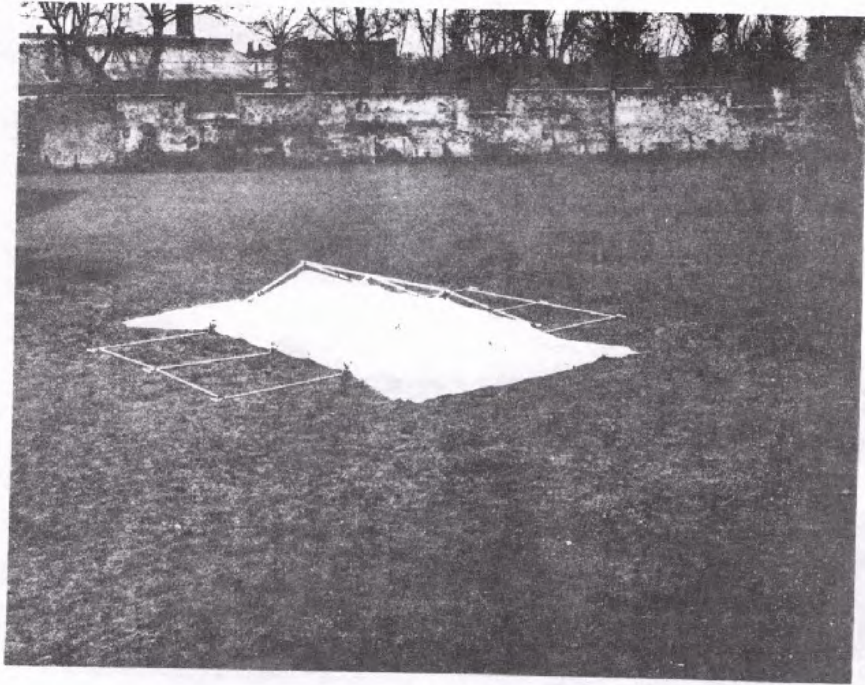
Catalogue number	Item name	Quantity
J1/8340-99-122-5715	Liner, end	2
J1/8340-99-122-5714	Liner, roof	2
J1/8340-99-122-5200	Liner, wall	4
J1/8340-99-942-4685	Valise, tent	1

17. The method of erecting the shelter when using the liner set is described in Figs 21 to 24.



3788-1

Fig 21 - Lay out frame components and assemble roof members.



3788-20

Fig 22 - Lace the roof and end liner sections together commencing at the ridge and tying off at the eaves. (Walls are not fitted at this stage.) Attach the liner to the inside of the assembled roof as shown.



3788-33

Fig 23 - Follow erection instructions shown in Figs 4 to 11.  
After stage 11 fit liner walls by lacing the walls  
to the eaves of the roof.



3788-3  
Fig 24 - Lace the ends and walls together from the eaves to the ground. Proceed with the shelter erection as shown in Figs 12 and 13.

INSTRUCTIONS FOR STRIKING

18. Warning - Wet Canvas Wet canvas should never be folded or packed unless circumstances render this unavoidable. Shelters should therefore be left to dry thoroughly before they are struck. Should it be necessary to strike a shelter when the canvas is not perfectly dry, strict compliance is necessary with the instructions given in para 23 below.
19. Striking is carried out in the reverse order to pitching.

#### INSTRUCTIONS FOR FOLDING

##### 20. Canvas, shelter, roof and walls:

- a. Lay out canvas with outer side uppermost
- b. Fold the sides to the centre
- c. Fold again in the same manner
- d. Fold the walls to the ridge
- e. Roll to form smallest possible package

##### 21. Canvas, shelter end sections

- a. Lay out canvas with outer side uppermost
- b. Fold in half at door opening
- c. Fold the top and side in to form a square
- d. Fold twice to make a strip approximately 0.914 m (3 ft) wide
- e. Roll to form smallest possible package

#### INSTRUCTIONS FOR PACKING

22. All components are to be packed into standard packs as shown in the contents of packs listed below.

23. Wet canvas should never be folded and packed unless circumstances render this unavoidable. Whenever it becomes necessary to pack canvas in a wet condition the packages are to be marked clearly 'NOT DRY' to indicate that the canvas was packed in a wet condition. If the canvas is being retained on the camp site, the officer in charge is to be notified of the condition of the canvas so that he can arrange for it to be dried at the earliest opportunity. If the canvas is to be dispatched, the consignee is to be notified by telephone or signal so that the canvas can be unpacked and dried as soon as possible after receipt.

#### CONTENTS OF PACKS

24. When packed, the components of one shelter are packed into five packs as follows:

a.	<u>Pack no 1 (valise)</u>	
	Valise tent	1
	Canvas shelter, roof and walls	1
	Canvas, shelter, end section	1
	Tie, webbing QR	13
	Lashing, shelter	3
	Hammer, hand	1
b.	<u>Pack no 2 (valise)</u>	
	Valise tent	1
	Canvas shelter, roof and walls	1
	Canvas shelter, end section	1
	Pin, tent 10 in)	26
	Pin, tent 18 in) In bag, tent pin	16
c.	<u>Pack no 3 (valise)</u>	
	Valise, shelter frame	1
	Frame shelter, roof member	5
	Frame shelter, universal member	24
d.	<u>Pack no 4 (valise)</u>	
	Valise, shelter frame	1
	Frame, shelter, roof member	5
	Frame, shelter, universal member	24
e.	<u>Pack no 5 (bag)</u>	
	Bag, shelter frame	1
	Frame, shelter, base wall member	10
	Frame, shelter, bracket apex	15
	Frame, shelter, bracket, cross type	10



**JSP 361/7**  
**JOINT SERVICE HANDBOOK**  
**OF TENTAGE**  
**SUPPLEMENT No 7**  
**PASSAGEWAYS**

<b>SHELTER, STRAIGHT</b>	<b>J1 8340-99-130-2183</b>
<b>SHELTER, STRAIGHT, EXTENSION</b>	<b>J1 8340-99-130-2301</b>
<b>SHELTER, 4 WAY CONNECTOR</b>	<b>J1 8340-99-130-2184</b>

when used in conjunction with a

**SHELTER, GENERAL PURPOSE 7.3 m x 5.5 m**  
**(24 ft x 18 ft) J1 8340-99-132-0000**

and

**SHELTER, GENERAL PURPOSE 7.3 m x 5.5 m**  
**(24 ft x 18 ft) EXTENSION J1 8340-99-135-6217**

for a

**FIELD FORCE MEDICAL UNIT (FFMU) SHELTER COMPLEX**

**INSTRUCTIONS FOR PITCHING, STRIKING AND PACKING**

**MINISTRY OF DEFENCE**

**MARCH 1981**

By Command of the Defence Council

*Frank Cooper.*

AMENDMENTS

Amendment number	Date of insertion	By whom amended	Amendment number	Date of insertion	By whom amended

DISTRIBUTION

ROYAL NAVY

As authorized by OS (NPS)

ARMY

Regular Army - On demand by units  
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## FOREWORD

1. The complex described in this supplement is in the new range series and supersedes tent, marquee, hospital, extending J1/8340-99-942-4586, an old range tent, details of which are contained in JSP 361/22.
2. The aim of this supplement is to give instructions for the pitching, striking and packing of a shelter, straight, a shelter, straight extension and a shelter 4-way connector. This has been achieved by showing how the above items are used in conjunction with a shelter GP 7.3 m x 5.5 m (24 ft x 18 ft) and its extension when used for a FFMU complex.
3. Though the instructions for the pitching, striking and packing of a shelter GP 7.3 m x 5.5 m (24 ft x 18 ft) and its extension are published in supplement JSP 361/4, it is repeated in this supplement for ease of reference.
4. The ground plan at Fig 40 shows the use of passageways and connectors in combinations with shelters GP 3.6 m x 3.6 m (12 ft x 12 ft) for which instructions for pitching, striking and packing are published in supplement JSP 361/3.
5. Personnel are advised to make themselves conversant with the contents of JSP 361 Chapters 1 and 2.

### WARNING - WET CANVAS

6. Wet canvas should never be folded or packed unless circumstances render this unavoidable. Whenever it becomes necessary to pack canvas in a wet condition, action must be taken in accordance with the instructions given in para 34.

JOINT SERVICE HANDBOOK  
OF TENTAGE

SUPPLEMENT No 7

PASSAGEWAYS

<u>SHELTER, STRAIGHT</u>	<u>J1 8340-99-130-2183</u>
<u>SHELTER, STRAIGHT, EXTENSION</u>	<u>J1 8340-99-130-2301</u>
<u>SHELTER, 4-WAY CONNECTOR</u>	<u>J1 8340-99-130-2184</u>

when used in conjunction with a

<u>SHELTER GENERAL PURPOSE 7.3 m x 5.5 m</u> <u>(24 ft x 18 ft)</u>	<u>J1 8340-99-132-0000</u>
--	----------------------------

and

<u>SHELTER GENERAL PURPOSE 7.3 m x 5.5 m</u> <u>(24 ft x 18 ft) EXTENSION</u>	<u>J1 8340-99-135-6217</u>
--	----------------------------

for a

FIELD FORCE MEDICAL UNIT (FFMU) SHELTER COMPLEX

INSTRUCTIONS FOR PITCHING STRIKING AND PACKING

INTRODUCTION

1. This shelter system comprises three different basic units, which are capable of being extended and arranged into hospital units of varying size. The basic units are:

- a. Shelter portable 7.3 m x 5.5 m (24 ft x 18 ft)  
for FFMU (not catalogued - see para 7)
- b. Passageway, shelter, straight - J1/8340-99-130-2183
- c. Passageway, shelter, 4-way connector -  
J1 8340-99-130-2184

2. The extension units are:

- a. Shelter general purpose 7.3 m x 5.5 m (24 ft x 18 ft)  
extension J1/8340-99-135-6217
- b. Shelter, straight, extension J1/8340-99-130-2301

DESCRIPTION

3. General: the shelter, shelter extension, passageway, passageway extension and passageway connectors all consist of a polyester/cotton cover supported by a frame, and are capable of erection without personnel having to clamber up framework or use ladders.

4. The fabric from which the covers are manufactured is woven from cotton covered polyester core yarns. It is of ripstop construction and is given a FWR finish (flame retardant, water repellent, rot resistant).

5. The frames supporting the canvas covers are constructed from light alloy tubular members and connecting brackets of various types. The tubular members are of the same diameter but in two different lengths - 1.81 m (71½ in) and 0.91 m (36 in).

6. Complete details of the types and quantities of canvas covers, tubular members and brackets for the shelters, extensions and passageways are given in the list of components at paras 22 to 24.

7. The Shelter portable 7.3 m x 5.5 m (24 ft x 18 ft) for FFMU consists of:

- a. Shelter general purpose 7.3 m x 5.5 m (24 ft x 18 ft) catalogue number J1/8340-99-132-0000 less:
  - (1) Pins tent 10 in (J1/8340-99-120-3855) Qty 3 of 26
  - (2) Canvas shelter end section (J1/8340-99-127-6019) Qty 1 of 2 which is replaced by the item listed at para 7b.
- b. Canvas shelter end section w/passage doorway 24 ft x 18 ft (J1/8340-99-122-5749)
- c. Various liners for roof, walls and ends and an additional valise.

The complete list of components comprising the Shelter for FFMU is given in para 22.

8. The general configuration of a shelter 24 ft x 18 ft fitted with a canvas shelter end section w/passage doorway 18 ft for FFMU complex is shown at Fig 1.



3690-7

Fig 1 - Shelter 7.3 m x 5.5 m (24 ft x 18 ft) fitted with canvas shelter end section w/passage doorway 24 ft x 18 ft for FFMU complex

9. The cover for the shelter is made up by lacing two identical sheets (item A Fig 5) constituting the roof and side walls to two end sections. The end section belonging to the shelter proper (see para 7a(2) and item B Fig 5) has a centre opening from ridge to floor fitted with loops and toggles as a simple and reliable method of fastening. The end section with passage doorway (see para 7b and item C Fig 5) is so designed that it can be rolled up (see Fig 25) to enable a passageway shelter straight to be fitted (see Fig 28).



10. A white liner, of two 3.66 m (12 ft) roof sections (item D, Fig 5), four 3.66 m (12 ft) wall sections (item G, Fig 5) and two ends (items E and F, Fig 5) is provided for each 7.3 m (24 ft) long shelter.

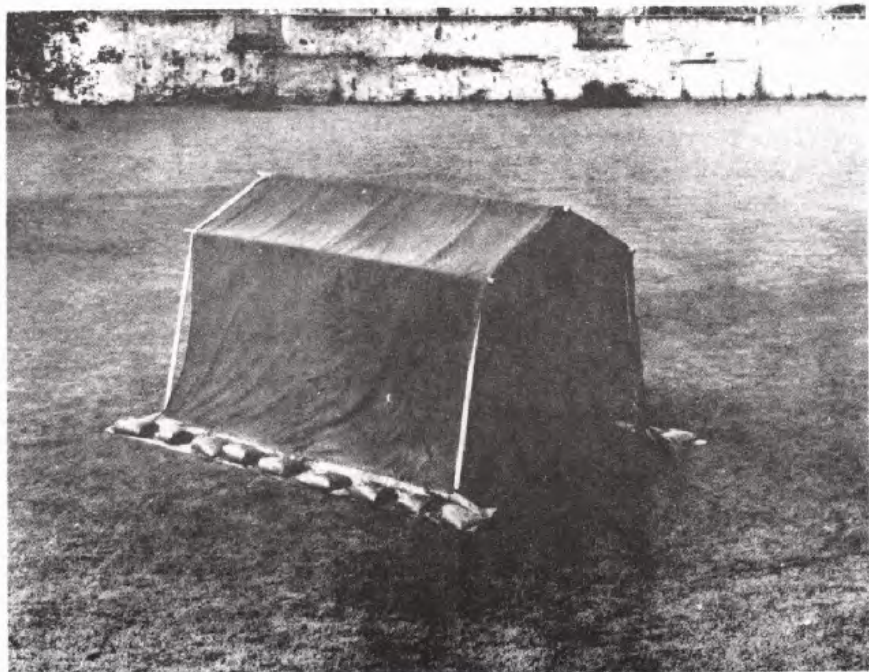
11. Two windows are incorporated in each wall section. The window apertures are fitted with a translucent plastic sheet which may be fastened in the open or closed position. Blackout covers are also provided. Additional ventilation is provided by four ventilators fitted in each roof section.

12. The shelter is self-supporting, but in order to ensure stability it is provided with a mud cloth which should be weighted with sandbags or other suitable ballast. This mud cloth is of coated synthetic fabric and is of ample width. It is strong and rot resistant and also acts as a water repellent. Under high wind conditions shelter lashings are positioned over the shelter, covering the lace up joints and then pegged to the ground. A webbing tie is fitted to one end of each lashing and provides the method of tensioning when the shelter is erected.

13. The shelter is so designed as to be extendible in length by multiples of 3.66 m (12 ft).

14. The passageway, shelter, straight cover is a single 3.66 m (12 ft) section without ends, which is designed to connect by means of a loop lacing to similar units or ends of shelters, where provision has been made for them to connect. The general configuration of a passageway, shelter, straight is shown at Fig 2.

15. Where it is necessary to blank off one end of a passageway, catalogue number J1/8340-99-122-5747 canvas passage end section qty 1 will be required. This item is NOT required when the passageway is connecting two shelters or a combination of shelters, passageway, shelters, straight and passageway, shelter, connectors, as shown in Figs 38 to 40. The item should be demanded separately as required.



3690-17

Fig 2 - Passageway, shelter, straight

16. The passageway, shelter, 4-way connector roof section comprises a folding cruciform unit (item E, Fig 7) and eight 0.91 m (36 in) tubular members (item C, Fig 7) which are connected with a 3-way and 4-way angle brackets (items D and G, Fig 7). This is supported by four 1.81 m (71 $\frac{1}{4}$  in) tubular members (item B, Fig 7) which use 3-way brackets (item F, Fig 7) as feet.

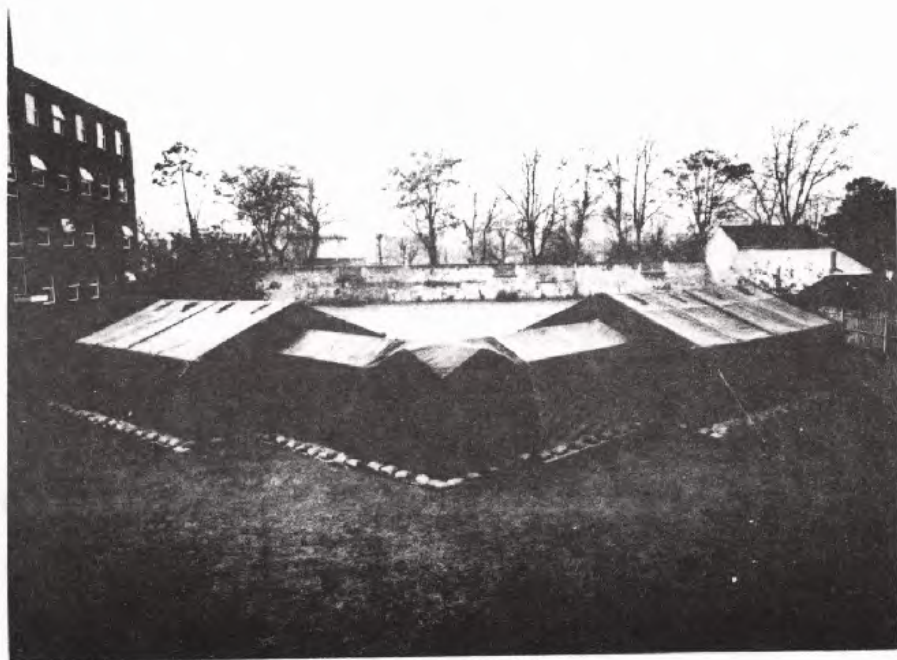
17. The cover is made up as a complete cover, with four entrances which are designed to connect to the end of the 3.66 m x 1.8 m (12 ft x 6 ft) passageway attached by loop lacing. All entrances are capable of being closed when not connected or in use. The general configuration of a passageway shelter 4-way connector is shown at Fig 3.



3690-19

Fig 3 - Passageway, shelter, 4-way connector

18. A photograph showing two shelters each joined by a passageway straight to a passageway connector is shown at Fig 4.



3690-20

Fig 4 - A combination using three units

## DIMENSIONS

### 19. Shelter portable 7.3 m x 5.5 m (24 ft x 18 ft) for FFMU

- a. Weight 254 kg (560 lb)
- b. Floor space 7.3 m x 6.4 m (24 ft x 21 ft)
- c. Pitching space 9.1 m x 8.5 m (30 ft x 28 ft)
- d. Length 7.3 m (24 ft)
- e. Width at eave 5.5 m (18 ft)
- f. Width at ground 6.4 m (21 ft)
- g. Height at eave 1.8 m (6 ft)
- h. Height at ridge 3.2 m (10 ft 6 in)

### 20. Passageway, shelter, straight

- a. Weight 73.5 kg (166 lb)
- b. Floor space 3.6 m x 2.7 m (12 ft x 9 ft)
- c. Pitching space 3.8 m x 2.7 m (12 ft 6 in x 9 ft)
- d. Length 3.6 m (12 ft)
- e. Width at eave 1.8 m (6 ft)
- f. Width at ground 2.7 m (9 ft)
- g. Height at eave 1.8 m (6 ft)
- h. Height of ridge 2.3 m (7 ft 6 in)

### 21. Passageway, shelter, 4-way connector

- a. Weight 72 kg (158 lb)
- b. Floor space 2.7 m x 2.7 m (9 ft x 9 ft)
- c. Pitching space 2.7 m x 2.7 m (9 ft x 9 ft)
- d. Length at eave 1.8 m (6 ft)
- e. Length at ground 2.7 m (9 ft)
- f. Width at eave 1.8 m (6 ft)
- g. Width at ground 2.7 m (9 ft)
- h. Height at eave 1.8 m (6 ft)
- j. Height at ridge 2.3 m (7 ft 6 in)

The text has been typed on page 10 to enable the list of components to face illustration Fig 5.

## COMPONENTS

22. a. Shelter portable 7.3 m x 5.5 m (24 ft x 18 ft) for use with FFMU. The components comprising one complete shelter for use with FFMU are shown in columns d and e of the list of components shown below. The quantities shown in column d are those comprising a shelter general purpose 7.3 m x 5.5 m (24 ft x 18 ft) catalogue number J1/8340-99-132-0000 less those items listed in para 7a(1) and (2), whilst the quantities shown in column e are the additional items required when using the general purpose shelter in the FFMU role.
- b. Shelter portable 7.3 m x 5.5 m (24 ft x 18 ft) extension for use with FFMU. The components comprising one complete extension for use with FFMU are shown in columns f and g of the list of components shown below. The quantities shown in column f are those comprising a shelter, general purpose 7.3 m x 5.5 m (18 ft x 24 ft) extension, catalogue number J1/8340-99-135-6217 whilst those in column g are additional items required for the extension when used for FFMU.
- c. Some of the additional components require MOD authority to demand. See the Joint Services Catalogue of Tents, Shelters and Components JSP 330.
- d. The components listed below are illustrated in Fig 5.

### COMPONENTS FOR SHELTER AND SHELTER EXTENSION

Key see Fig 5	Item	Catalogue number	Quantity			
a	b	c	d	e	f	g
T	Bag, shelter, frame	J1/8340-99-132-0004	1	-	1	-
U	Bag, tent pin	J1/8340-99-120-7745	2	-	1	-
B	Canvas, shelter, end section*	J1/8340-99-127-6019	1	-	-	-
C	Canvas, shelter, end section w/passage doorway 24 ft x 18 ft *	J1/8340-99-122-5749	-	1	-	-
A	Canvas, shelter, roof and walls	J1/8340-99-127-6018	2	-	1	-
L	Frame, shelter, base, wall member	J1/8340-99-132-0010	10	-	4	-
J	Frame, shelter, bracket, apex	J1/8340-99-132-0008	15	-	6	-
K	Frame, shelter, bracket, cross type	J1/8340-99-132-0009	10	-	4	-
I	Frame, shelter, roof member	J1/8340-99-132-0007	10	-	4	-
H	Frame, shelter, universal member	J1/8340-99-132-0006	48	-	22	-
V	Hammer hand	F1/5120-99-910-4703	1	-	1	-
M	Lashing, shelter 22 ft 6 in	J1/8340-99-122-5753	3	-	1	-
E	Liner, shelter, end section	J1/8340-99-122-5715	-	1	-	-

a	b	c	d	e	f	g
F	Liner, Shelter, end section w/passage door	J1/8340-99-122-5716	-	1	-	-
D	Liner, shelter, roof	J1/8340-99-122-5714	-	2	-	1
G	Liner, shelter, wall	J1/8340-99-122-5200	-	4	-	2
P	Pin, tent, steel 10 in **	J1/8340-99-120-3855	23	-	4	-
Q	Pin, tent, steel 18 in	J1/8340-99-943-9052	16	-	6	-
O	Tie, webbing, QR 21 ft 5 in	J1/5340-99-127-7465	10	-	4	-
N	Tie, webbing, QR 26 ft 3 in	J1/5340-99-127-7461	3	-	1	-
S	Valise, shelter frame	J1/8340-99-132-0003	2	-	1	-
R	Valise, tent	J1/8340-99-942-4685	2	1	1	-

\* One less of item B than issued with the shelter GP 24 ft x 18 ft J1/8340-99-132-0000 as item C is issued.

\*\* Three less of item P than issued with the shelter GP 24 ft x 18 ft.

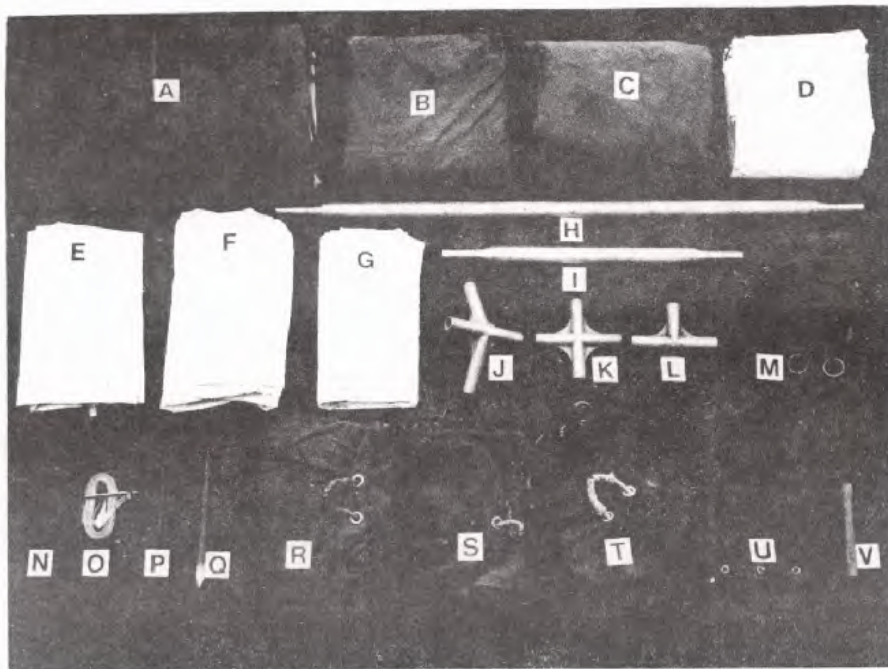
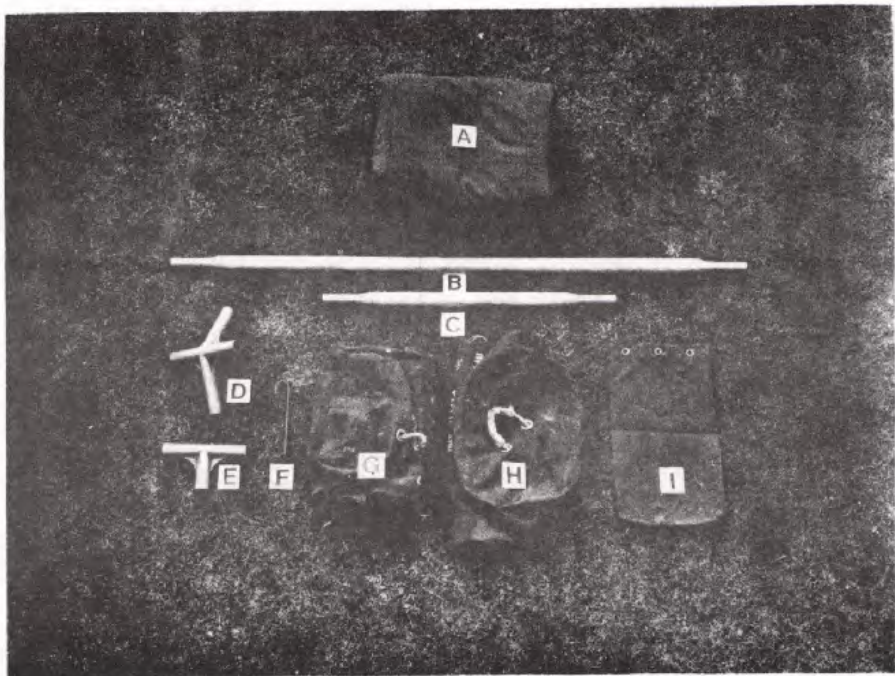


Fig 5 - Components of shelter and shelter extension



23. Passageway shelter straight and extension: The components of one complete passageway, shelter straight and extension are listed below and are illustrated at Fig 6.

Key see Fig 6	Item	Catalogue number	Quantity	
			per shelter	per extension
H	Bag, shelter frame	J1/8340-99-132-0004	1	1
I	Bag, tent pin	J1/8340-99-120-7745	1	1
A	Canvas, passage section	J1/8340-99-122-5745	1	1
E	Frame, shelter, base, wall member	J1/8340-99-132-0010	6	4
D	Frame, shelter, bracket, apex	J1/8340-99-132-0008	9	6
C	Frame, shelter, roof member	J1/8340-99-132-0007	6	4
B	Frame, shelter, universal member	J1/8340-99-132-0006	16	14
F	Pin, tent, steel 10 in	J1/8340-99-120-3855	6	6
G	Valise, shelter, frame	J1/8340-99-132-0003	1	1

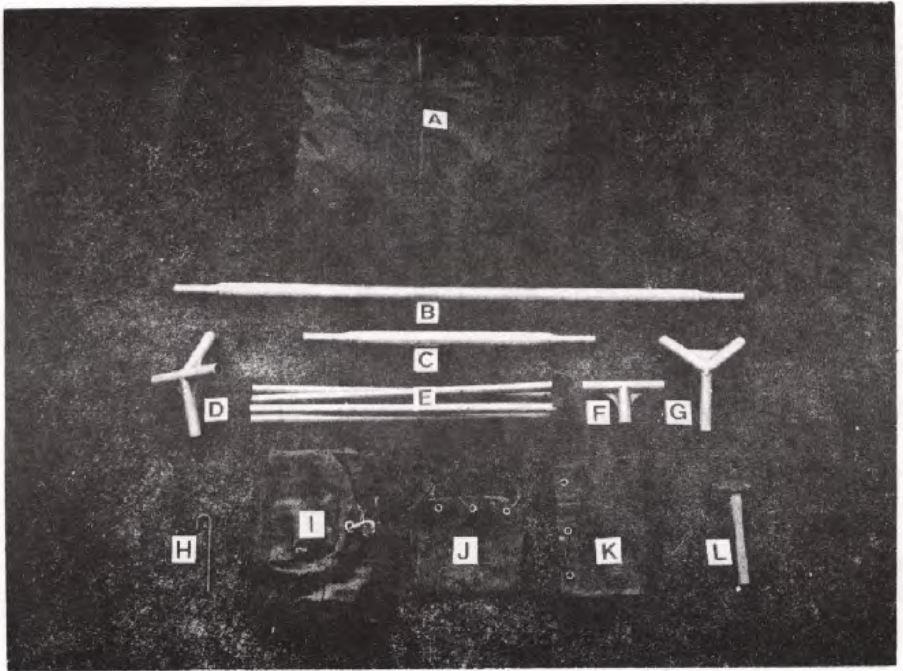


3690-31

**Fig 6 - Components of passageway shelter straight and  
passageway shelter straight extension**

24. Passageway shelter 4-way connector: the components of one complex passageway shelter 4-way connector are listed below and are illustrated at Fig 7.

Key see Fig 7	Item	Catalogue number	Quantity
K	Bag, shelter frame	J1/8340-99-120-7746	1
J	Bag, tent pin	J1/8340-99-120-7745	1
A	Canvas, passage section	J1/8340-99-122-5746	1
F	Frame, shelter, base, wall member	J1/8340-99-132-0010	4
D	Frame, shelter, bracket, apex	J1/8340-99-132-0008	4
G	Frame, shelter, bracket, corner	J1/8340-99-132-0163	4
E	Frame, shelter, bracket, roof support	J1/8340-99-132-0164	1
C	Frame, shelter, roof member	J1/8340-99-132-0007	8
B	Frame, shelter, universal member	J1/8340-99-132-0006	4
L	Hammer, hand	F1/5120-99-910-4703	1
H	Pin, tent steel, 10 in	J1/8340-99-120-3855	8
I	Valise, shelter frame	J1/8340-99-132-0003	1



3690-32

Fig 7 - Components of passageway, shelter, 4-way connector

## GENERAL INSTRUCTIONS

25. It is desirable that the shelter is pitched on firm level ground.

26. It is essential that adequate ballast is placed on the coated fabric cloths at the bottom of the walls and ends of the shelter. Spoil from drainage trenches is suitable for this purpose and may be used in sandbags or other flexible containers.

27. Warning - It cannot be too strongly emphasized that the successful erection of these shelters depends on using sufficient personnel when lifting the assembled roof, that is one man to each wall member. Also, 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.

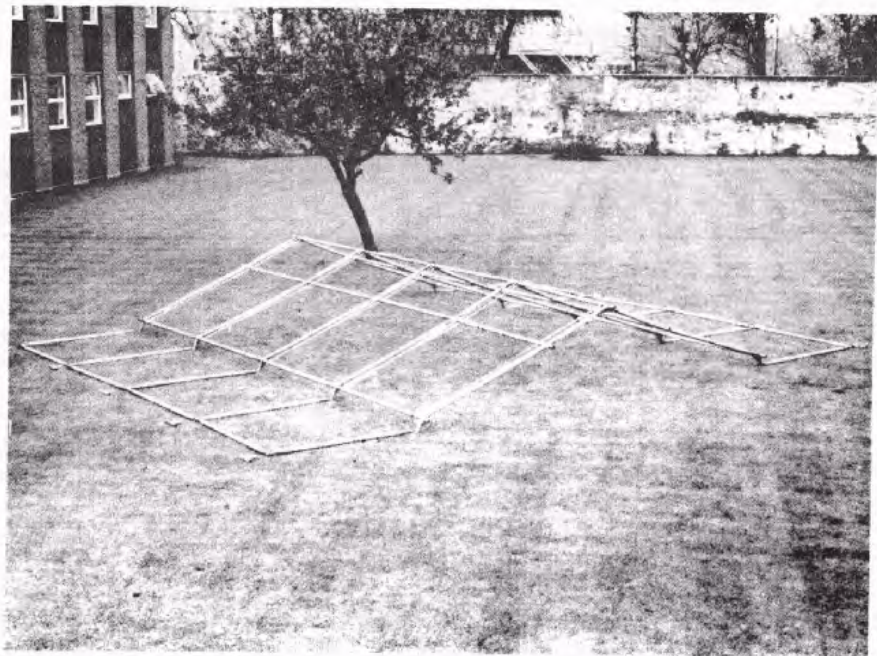
## INSTRUCTIONS FOR PITCHING

28. The following photographs Figs 8 to 34 show the method of pitching. Ground plans are shown at Figs 35 to 40. Personnel required for pitching are:

	No of Men	Erection Times (Approx)
a. Shelter (7.3 m x 5.5 m) 24 ft x 18 ft for FFMU	5	50 mins
b. Passageway, shelter, straight	3	30 mins
c. Passageway, shelter, 4-way connector	2	25 mins
d. Additional for each (3.66 m) 12 ft extension		
(1) Shelter (7.3 m x 5.5 m) 24 ft x 18 ft for FFMU	2	
(2) Passageway, shelter, straight	2	

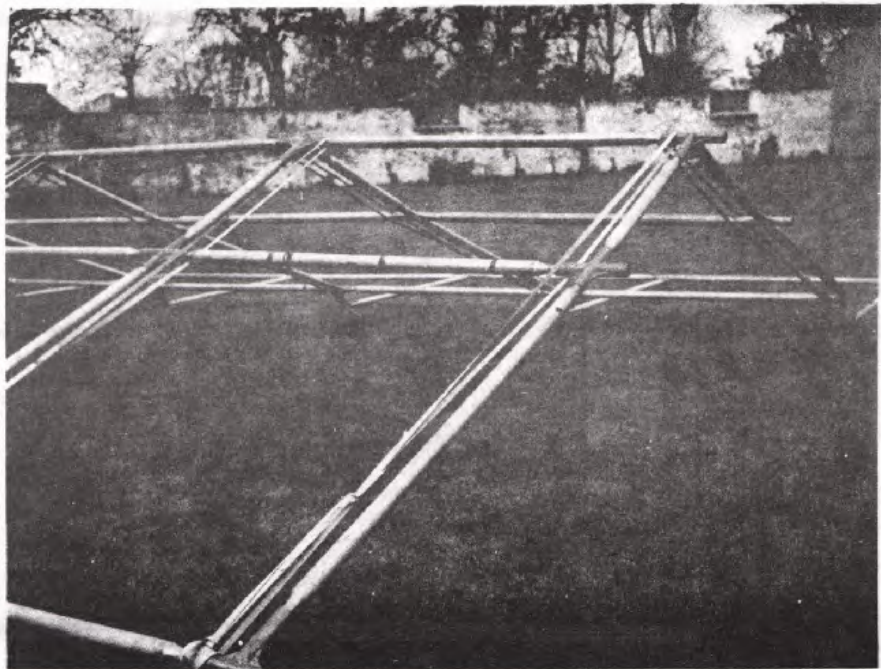
Note: The passageway, shelter, 4-way connector is NOT extendible.

ERECTING THE SHELTER  
Figs 8 to 24 inclusive



3690-1

**Fig 8 - Lay out frame components and assemble roof members.  
The short poles are fitted at the top of the rafters.  
Fit webbing ties as shown.**

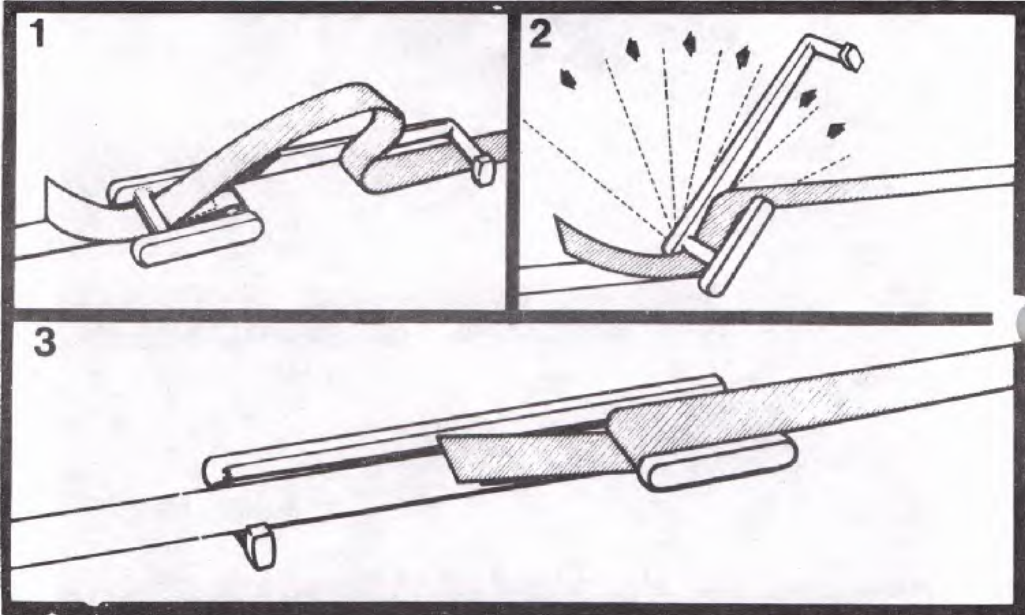


3690-28

Fig 9 - Showing the position of the webbing ties



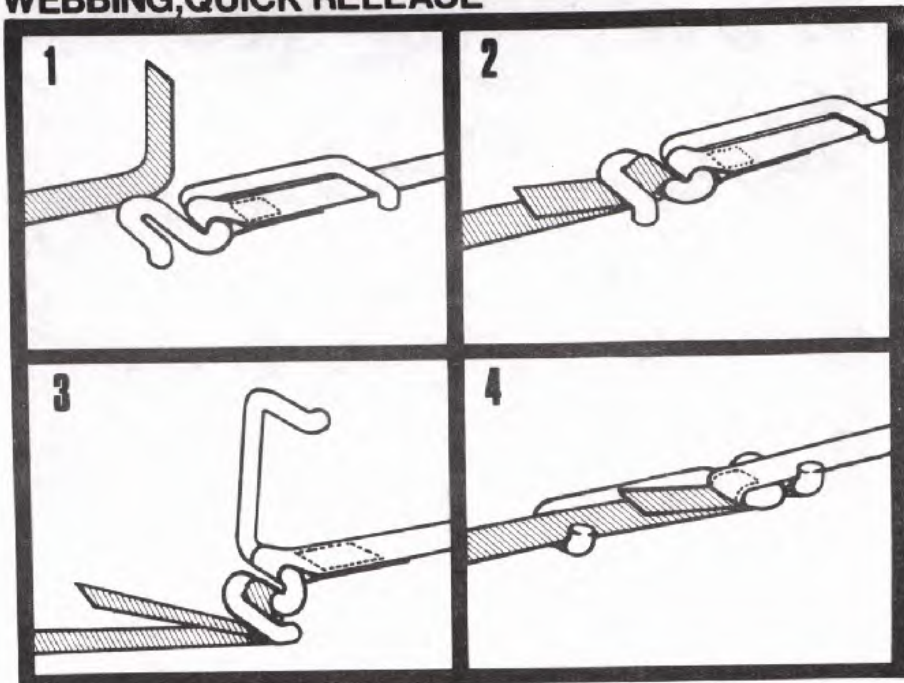
# METHOD OF FASTENING THE 2-BAR TYPE, TIE, WEBBING, QUICK RELEASE



3725-4A

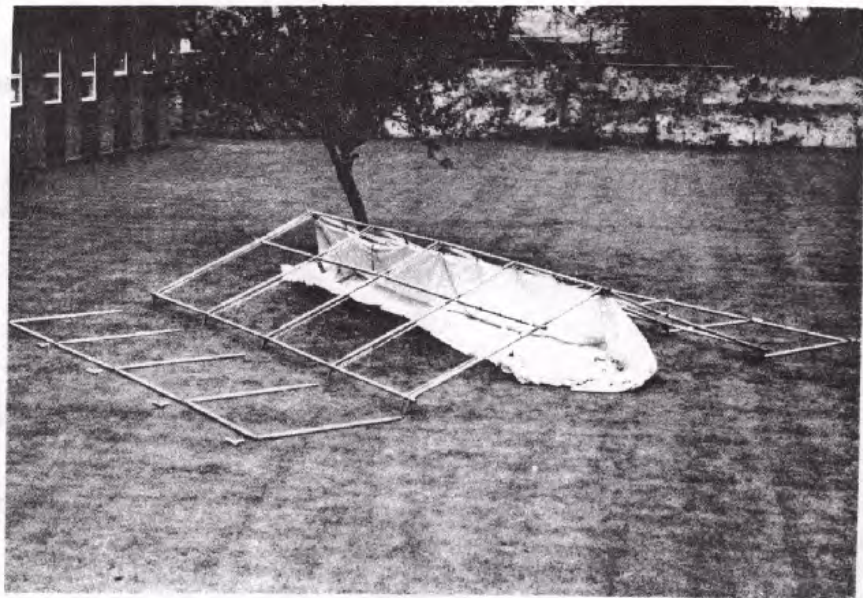
Fig 10 - Method of fastening the 2-bar type, tie, webbing, quick release

# METHOD OF FASTENING THE 3-BAR TYPE, TIE, WEBBING, QUICK RELEASE



3725-4B

Fig 11 - Method of fastening the 3-bar type, tie, webbing, quick release



3690-2

Fig 12 - Lace the liner sections, two roof sections and two end sections (one end section with centre opening and one end section with passage doorway). Wall sections are not fitted at this stage. Fit the liner to the ridge poles.



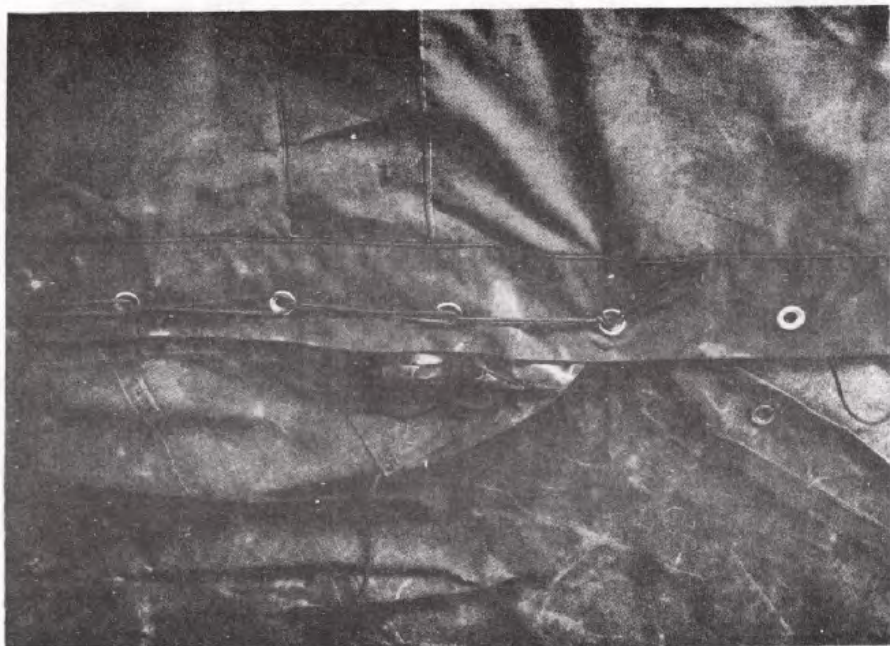
3690-29

Fig 13 - Showing the method of attaching the liner to the ridge



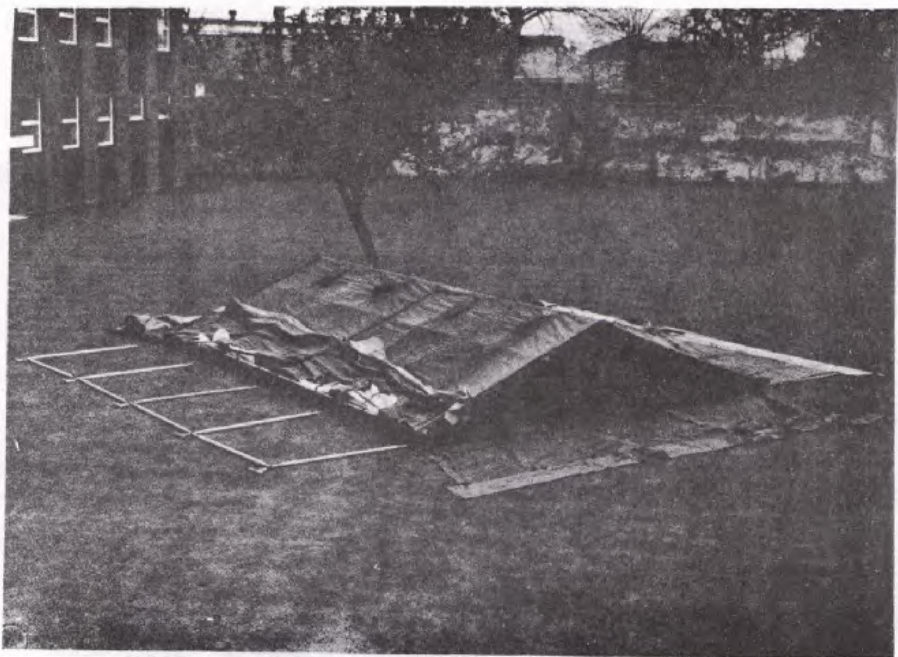
3690-23

Fig 14 - Lay out the outer covers, two roof with wall sections and two end sections. Lace together starting at the ridge.



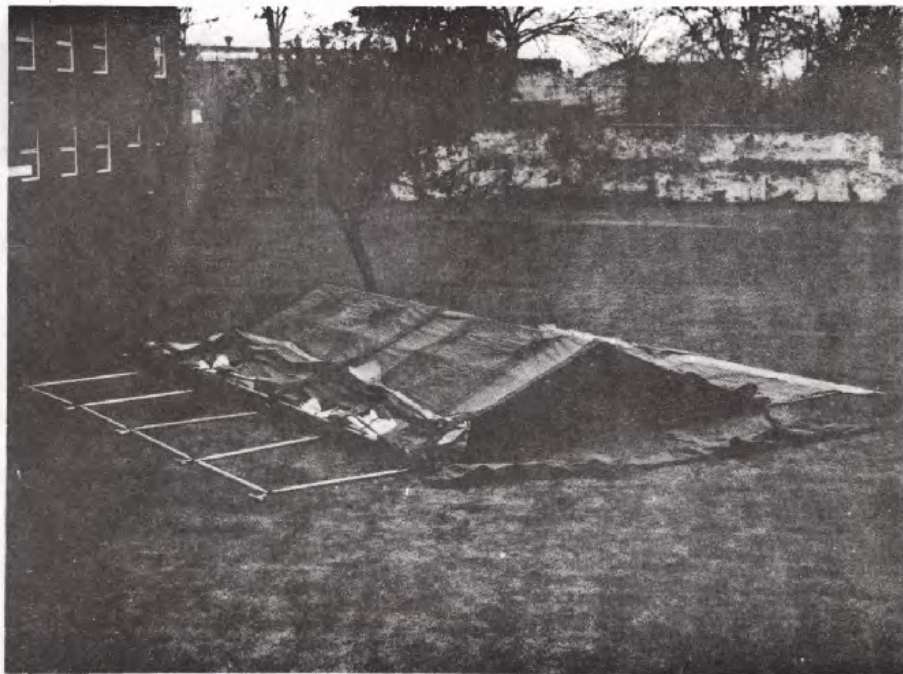
3690-22

Fig 15 - Continue the lacing down to the eaves



3690-3

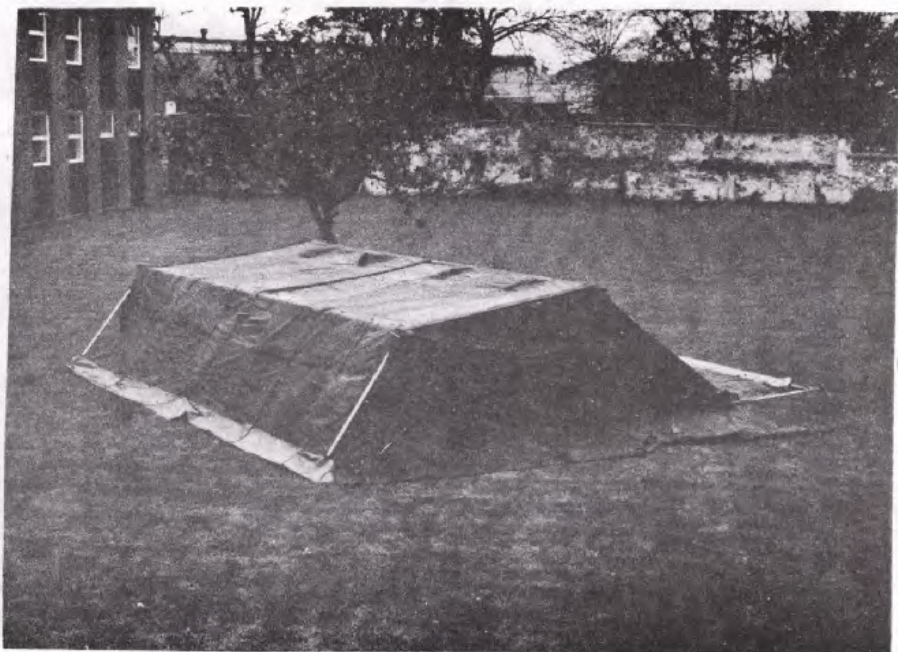
**Fig 16 - Lay the outer cover over the assembled roof. Fit bracket ends into the sleeves provided on the end covers.**



3690-4

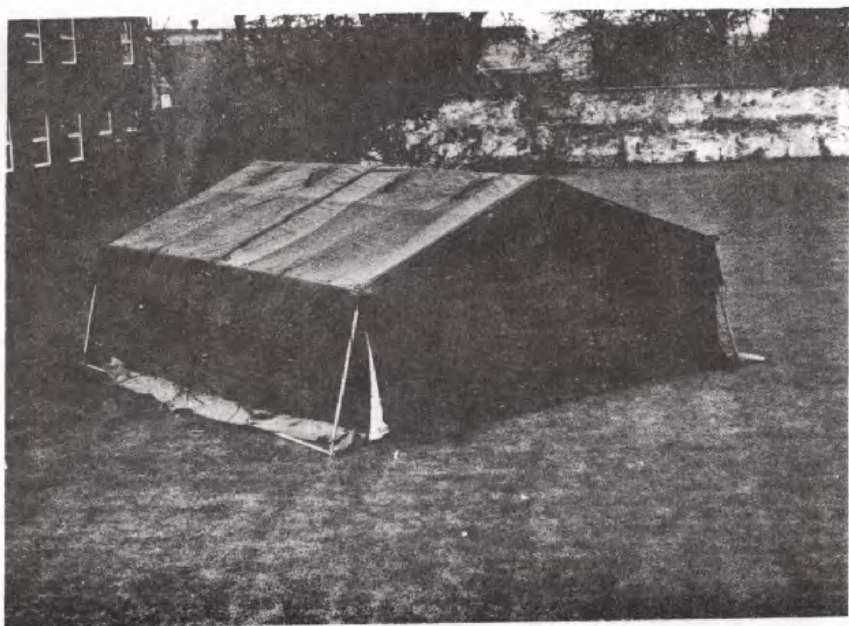
Fig 17 - Lay storm lashings over the cover (one over each lacing joint)





3690-5

Fig 18 - Raise the frame on one side, fit wall and ground members. One man is required for each wall member and the lift must be even to avoid damage to the frame. Attach all outer cover roof ties to the frame. Attach all inner roof cover fastenings to the frame.



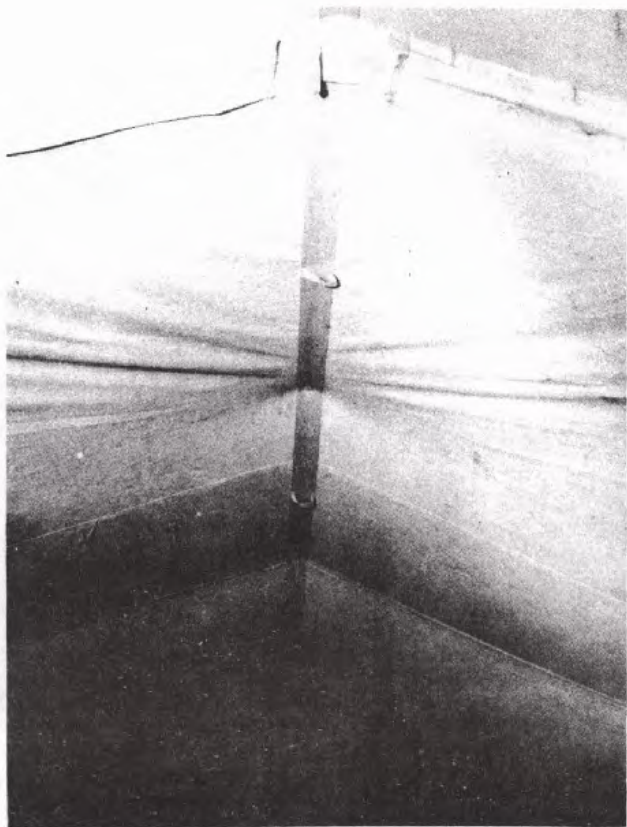
3690-6

Fig 19 - Raise the other side of the roof and fit wall and ground members. Push the base of the wall inwards so that the shelter measures approximately 6.4 m (21 ft) across the base. Fit the liner walls.



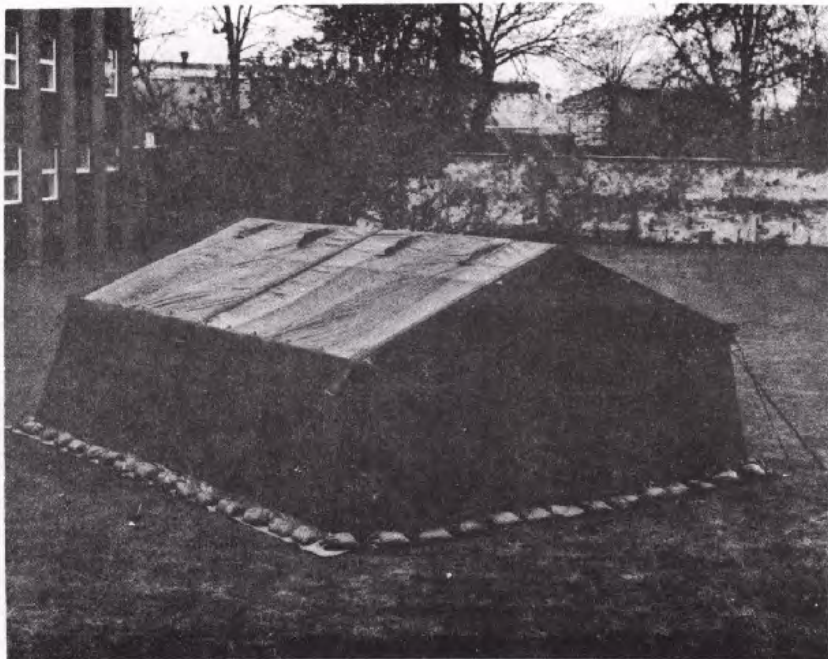
3690-27

Fig 20 - Showing the method of attaching liner walls to the roof  
and end



3690-26

Fig 21 - Showing the attachment loops for lighting cables.



3690-7

Fig 22 - Lace covers from eave to ground. Peg out storm and shelter cover lines. Peg down cover and ballast cloths.



3690-25

**Fig 23 - Showing method of pegging out shelter lashings (end without webbing tie).**

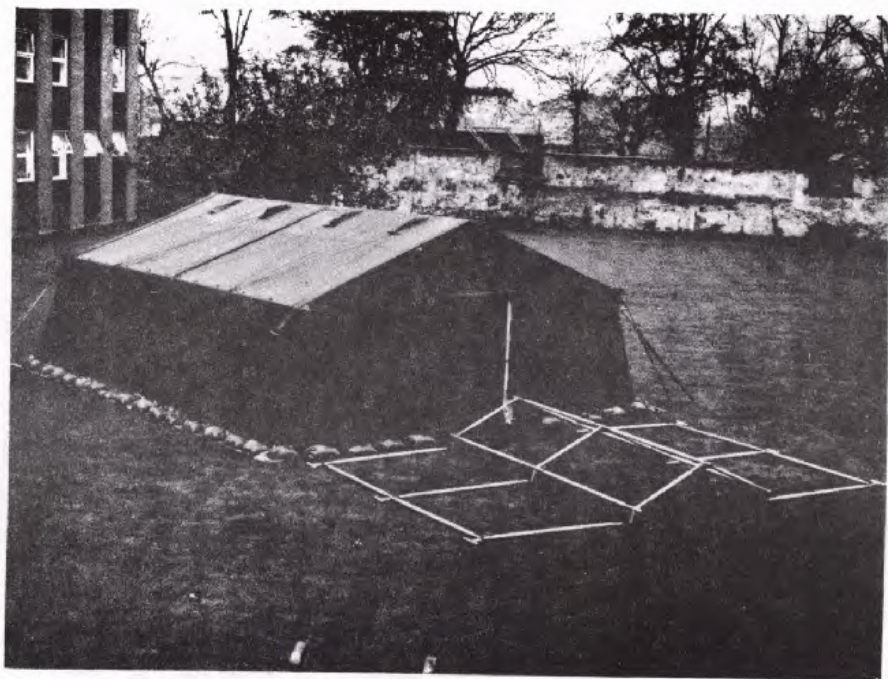


3690-24

Fig 24 - Showing the method of pegging out shelter lashings  
(end with webbing tie).

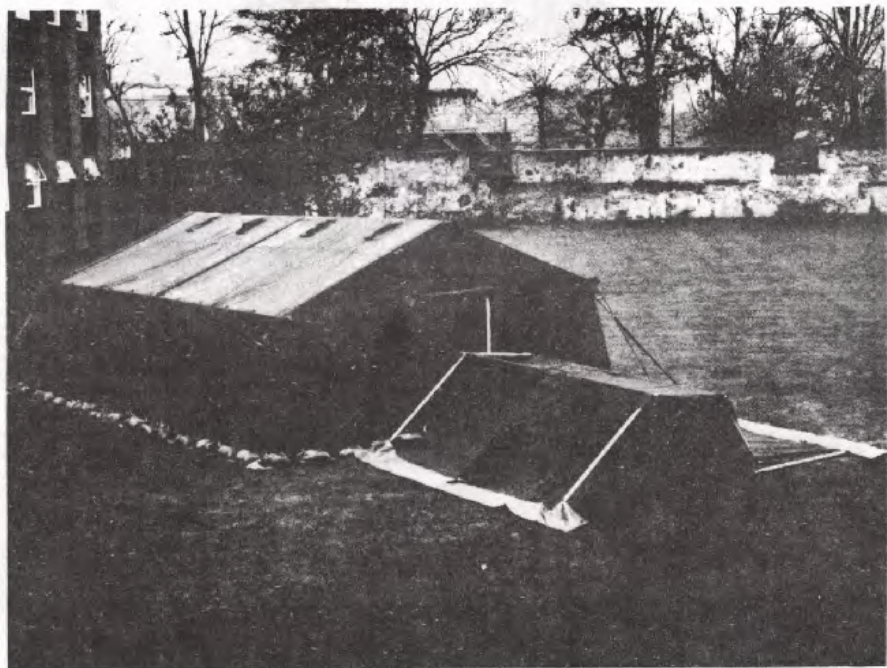
ERECTING AND CONNECTING A  
PASSAGEWAY TO A SHELTER  
Figs 25 to 29 inclusive





3690-9

Fig 25 - Lay out the framework and assemble roof members



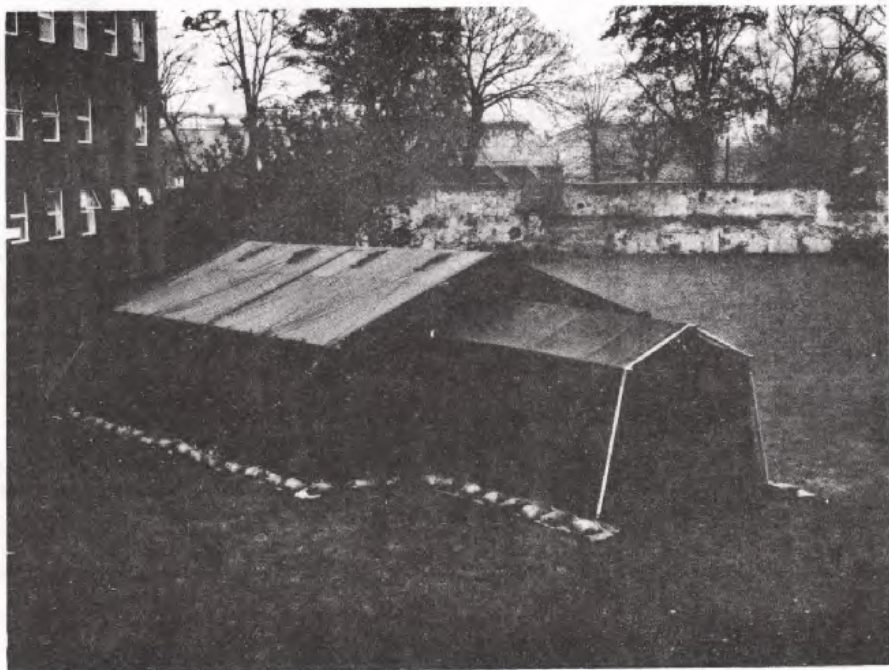
3690-10

**Fig 26 - Lay the cover over the assembled roof. Raise one side of the frame and fit wall and ground members.**



3690-8

Fig 27 - Raise the other side of the frame and fit wall and ground members. Fit bracket ends into sleeves provided on the shelter end.



3690-11

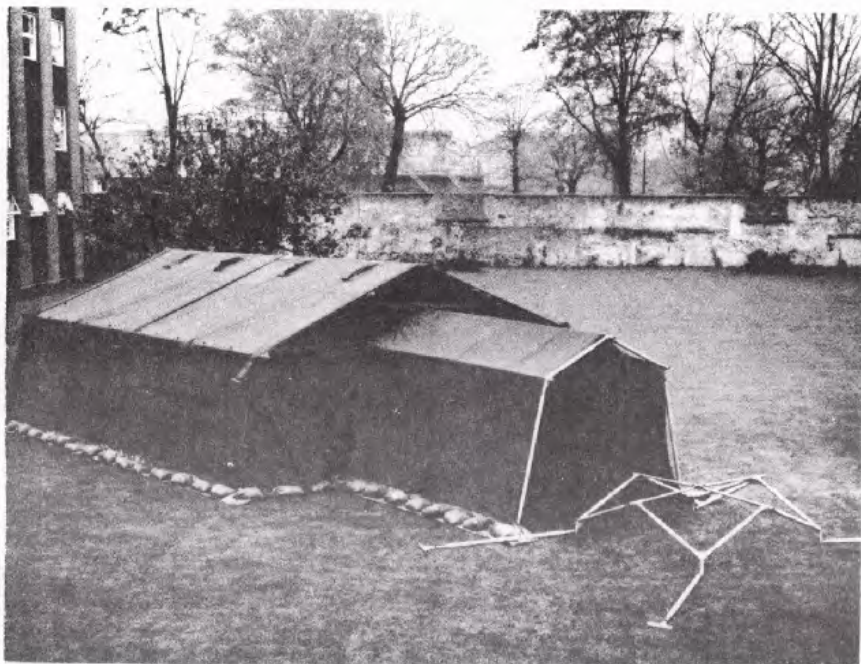
**Fig 28 - Starting at the passageway ridge, lace the end and the passageway covers together. Peg down cover and ballast ground cloths.**



3690-18

Fig 29 - A passageway end is available for blanking off the passageway (J1/8340-99-122-5747) (See para 15)

ERECTING AND CONNECTING  
A PASSAGE CONNECTOR  
TO A PASSAGEWAY  
Figs 30 to 34 inclusive



3690-12

Fig 30 - Lay out the framework and assemble the roof members.



3690-13

Fig 31 - Lay the cover over the assembled roof. Fit bracket ends into the sleeves provided on the cover.





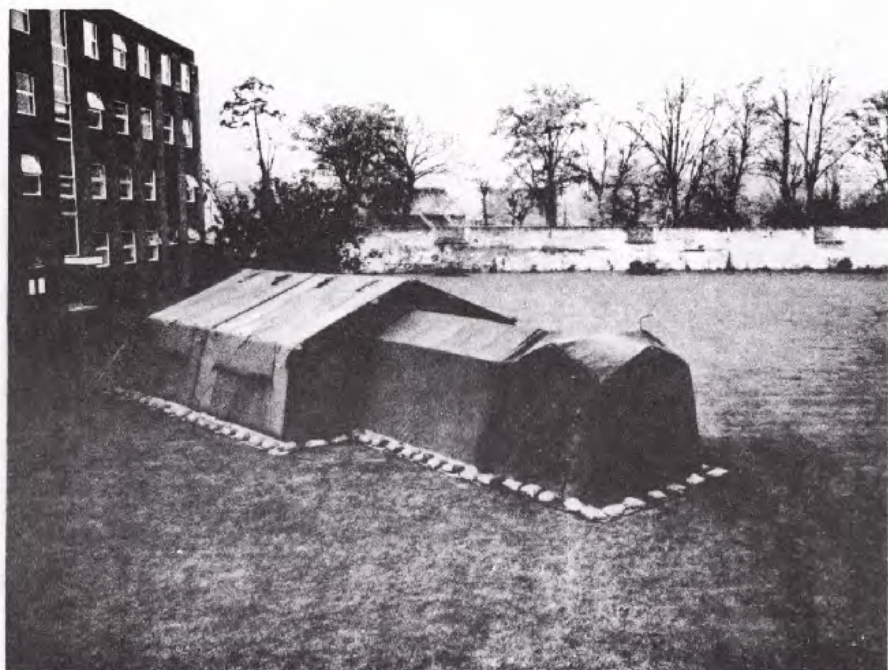
3690-14

Fig 32 - Raise one side of the roof and fit wall and ground members.



3690-15

Fig 33 - Raise the other side and fit wall and ground members.



3690-16

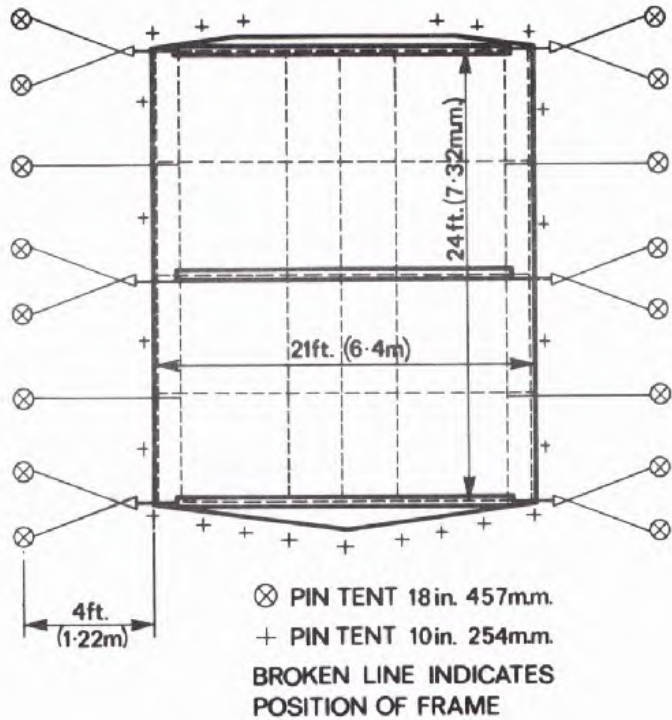
Fig 34 - Lace the passage connector cover to the passageway cover. Peg down cover and ballast the ground cloths.

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GROUND PLANS

Figs 35 to 40 inclusive

**SHELTER PORTABLE 24ftx18ft.**  
**WITH PASSAGE DOORWAY**



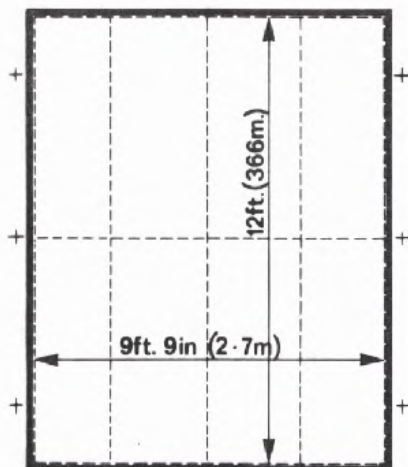
**GROUND PLAN**

FIGURE 35

8380-1

Fig 35 - Ground plan - Shelter portable 24 ft x 18 ft  
 w/passage doorway

PASSAGEWAY



+ PIN TENT 10 in. (254mm.)  
BROKEN LINE INDICATES  
POSITION OF FRAME

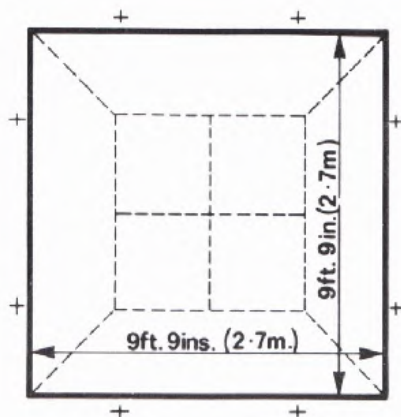
GROUND PLAN

FIGURE 36

Fig 36 - Ground plan - Passageway

8380A-4

## 4-WAY CONNECTOR



+ PIN TENT 10in. (254mm.)  
BROKEN LINE INDICATES  
POSITION OF FRAME.

## GROUND PLAN

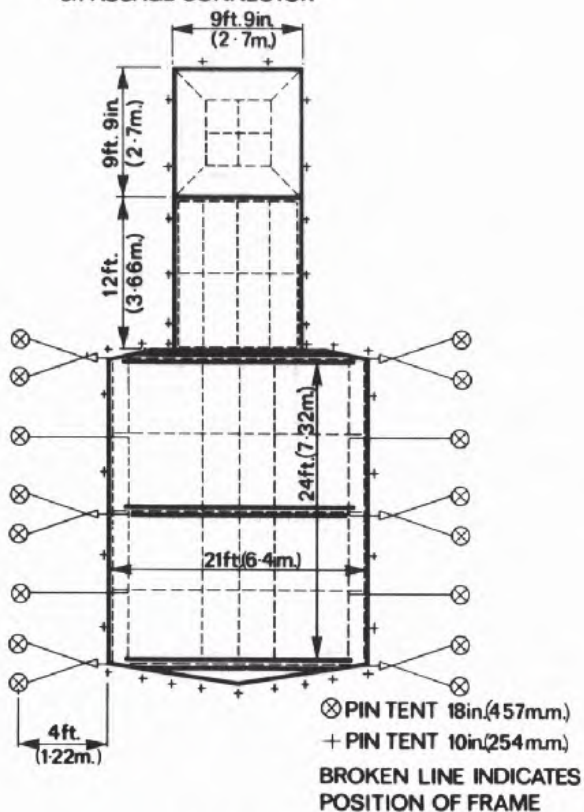
FIGURE 37

8380A-9

Fig 37 - Ground plan - 4-way connector

SHELTER COMPLEX COMPRISING

1. SHELTER, PORTABLE 24ft x 18ft. 7.32m. x 5.5m.
2. PASSAGEWAY
3. PASSAGE CONNECTOR



GROUND PLAN.

FIGURE 38

8380A-6

Fig 38 - Ground plan - shelter complex

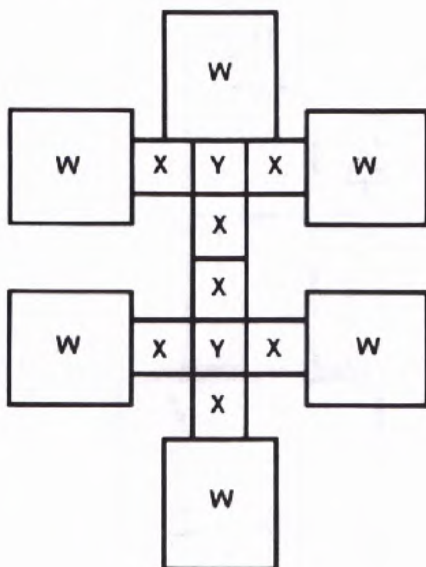


EXAMPLE OF A SHELTER COMPLEX USING  
MULTIPLE UNITS.

W-SHELTER 24ft x 18ft (7.3m.x5.5m)

X - PASSAGEWAY

Y - CONNECTOR



GROUND PLAN

FIGURE 39

8380A-11

Fig 39 - Ground plan - Shelter complex using multiple units

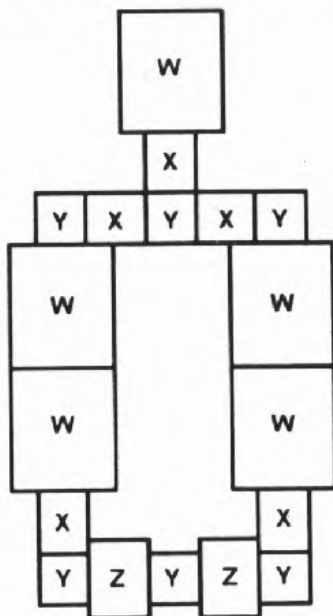
EXAMPLE OF A SHELTER COMPLEX USING MULTIPLE  
UNITS INCLUDING SHELTERS G.P. 12ft.x12ft.(3.6m.x3.6m.)

W-SHELTER 24ft. x18ft.(7.3m.x 5.5m.)

X -PASSAGEWAY

Y -CONNECTOR

Z -SHELTER 12ft.x12 ft.(3.6m.x 3.6 m.)



GROUND PLAN

FIGURE 40

8380A-7

Fig 40 - Ground plan - Shelter complex using multiple units  
including Shelter GP 12 ft x 12 ft

## INSTRUCTIONS FOR STRIKING

29. Warning - Wet Canvas Wet canvas should never be folded or packed unless circumstances render this unavoidable. Shelters should therefore be left to dry thoroughly before they are struck. Should it be necessary to strike a shelter when the canvas is not perfectly dry, strict compliance is essential with the instruction given in para 34.

30. Striking is carried out in the reverse order to pitching.

## INSTRUCTIONS FOR FOLDING

31. Shelters portable 7.3 m x 5.5 m (24 ft x 18 ft) for FFMU. The canvas for the shelter is to be folded as follows:

a. Canvas, shelter, roof and walls

- (1) Lay out the canvas with outer side uppermost
- (2) Fold the sides to the centre
- (3) Fold again in the same manner
- (4) Fold the walls to the ridge
- (5) Roll to form the smallest possible package

b. Canvas, shelter, end section and end section w/passage doorway

- (1) Lay out the canvas with outer side uppermost
- (2) Fold in half at door opening
- (3) Fold the top and side in to form a square
- (4) Fold twice to make a strip approximately 0.91 m (3 ft) wide
- (5) Roll to form the smallest possible package

32. Passageway, shelter, straight and passageway, shelter, straight, extension. The canvas is to be folded as follows:

- a. Lay out the canvas with the outer side uppermost
- b. Fold the sides into the centre to form a strip 1.83 m (6 ft) square
- c. Roll to form the smallest possible package

33. Passageway, shelter, 4-way connector. The canvas is to be folded as follows:

- a. Lay out the canvas with the outer side uppermost

- b. Fold the walls and doorways on to the roof to form a 1.83 m (6 ft) square
- c. Roll to form the smallest possible package

INSTRUCTIONS FOR PACKING

34. Wet canvas should never be folded and packed unless circumstances render this unavoidable. When it becomes necessary to pack canvas in a wet condition the packages are to be marked clearly 'NOT DRY' to indicate that the canvas was packed in a wet condition. If the canvas is being retained on the camp site, the officer in charge is to be notified of the condition of the canvas so that he can arrange for it to be dried at the earliest opportunity. If the canvas is to be dispatched, the consignee is to be notified by telephone or signal so that the canvas can be unpacked and dried as soon as possible after receipt.

35. All components are to be packed into standard packs as shown in the contents of packs listed below.

CONTENTS OF PACKS

36. Shelters portable 7.3 m x 5.5 m (24 ft x 18 ft) for FFMU. When packed the components are packed into six packs as follows:

a. <u>Pack no 1 (valise)</u>	
Valise, tent	1
Canvas, shelter, roof and walls	1
Canvas shelter, end	1
Hammer, hand	1
Lashing, shelter, 22 ft 6 in	3
Tie, webbing QR 21 ft 5 in	10
Tie, webbing QR 26 ft 3 in	3
b. <u>Pack no 2 (valise)</u>	
Valise, tent	1
Bag, tent pin	2
Canvas, shelter, roof and walls	1
Canvas, shelter, end w/passageway	1
Pin, tent 18 in)	16
Pin, tent 10 in) In bag. tent pin	23
c. <u>Pack no 3 (valise)</u>	
Valise, tent	1
Liner, shelter end section	1
Liner, shelter, end section w/passage door	1
Liner, shelter, roof	2
Liner, shelter, wall	4
d. <u>Pack no 4 (valise)</u>	
Valise, shelter frame	1
Frame, shelter, roof member	5
Frame, shelter, universal member	24

e.	<u>Pack no 5 (valise)</u>		
	Valise, shelter frame	1	
	Frame, shelter, roof member	5	
	Frame, shelter, universal member	24	
f.	<u>Pack no 6 (bag)</u>		
	Bag, shelter, frame	1	
	Frame, shelter, base, wall member	10	
	Frame, shelter, bracket, apex	15	
	Frame, shelter, bracket, cross type	10	

37. Shelter general purpose 7.3 m x 5.5 m (24 ft x 18 ft) extension. When packed the components are packed into three packs as follows:

a.	<u>Pack no 1 (valise)</u>		
	Valise, tent	1	
	Bag, tent pin	1	
	Canvas, shelter, roof and walls	1	
	Hammer, hand	1	
	Lashing, shelter, 22 ft 6 in	1	
	Pin, tent 10 in )	4	
	Pin, tent 18 in ) in bag, tent pin	6	
	Tie, webbing, QR, 21 ft 5 in	4	
	Tie, webbing, QR, 26 ft 3 in	1	
b.	<u>Pack no 2 (valise)</u>		
	Valise, shelter frame	1	
	Frame, shelter, roof member	4	
	Frame, shelter, universal member	22	
c.	<u>Pack no 3 (bag)</u>		
	Bag, shelter, frame	1	
	Frame, shelter, base, wall member	4	
	Frame, shelter, bracket, apex	6	
	Frame, shelter, bracket, cross type	4	

All the above items constitute the components of catalogue number J1/8340-99-135-6217 and are issued by RAOC packed as above. The three liners shown in para 22 column g are additional items which are separately demanded and issued and are to be separately packed when returned to RAOC. However for transportation when held by units, the liner may be packed in pack no 1.

38. Passageway, shelter, straight and extension. When packed the components are packed into two packs each as follows:

	Passageway Shelter Straight	Extension
a.	<u>Pack no 1 (valise)</u>	
	Valise, shelter frame	1
	Canvas, passage section	1
	Frame, shelter, roof member	4
	Frame, shelter, universal member	16
		14



**JSP 361/11**

**JOINT SERVICE HANDBOOK  
OF TENTAGE**

**SUPPLEMENT No 11**

**TENT ARCTIC 10 MAN  
(UK PATTERN)**

**J1 8340-99-132-4514**

**INSTRUCTIONS FOR PITCHING, STRIKING  
AND PACKING**

By Command of the Defence Council

MINISTRY OF DEFENCE  
MARCH 1981

AMENDMENTS

Amendment number	Date of insertion	By whom amended	Amendment number	Date of insertion	By whom amended

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FOREWORD

1. Personnel are advised to make themselves conversant with the contents of JSP 361 Chapters 1 and 2.

WARNING - WET CANVAS

2. Wet canvas should never be folded or packed unless circumstances render this unavoidable. Whenever it becomes necessary to pack canvas in a wet condition, action must be taken in accordance with the instructions given in paragraph 19.

JOINT SERVICE HANDBOOK  
OF TENTAGE  
SUPPLEMENT NO 11  
TENT ARCTIC 10 MAN  
(UK PATTERN)  
J1 8340-89-132-4514

INSTRUCTIONS FOR PITCHING, STRIKING AND PACKING

DESCRIPTION

1. The 10 man tent has been designed to provide adequate protection for a 10 man group operating in an arctic environment. (see Figs 9 and 10).
2. The tent outer cover is manufactured in a polyester/cotton corespun fabric with a WR finish.
3. A flame resistant white liner manufactured in 'Nomex' fabric, is attached to the tent outer by means of plastic toggles and nylon loops.
4. A centre doorway secured by two slide fasteners on the outer, and one in the centre of the liner is incorporated in the front of the tent.
5. A snow valance manufactured in polychloroprene coated nylon is fitted on all four walls of the tent outer. A corresponding sod cloth is fitted to the liner.
6. Ventilation is provided by two sleeves fitted at the apex of the tent outer with corresponding vents in the liner walls. There are also two netting windows, one each side of the entrance, to provide additional ventilation.
7. A cooking flap is located at the front end of the tent. It is secured by a slide fastener when not in use.
8. The framework consisting of two vertical poles, a ridge pole, and two base plates, is manufactured in aluminium alloy tube. All poles are strung together for ease of assembly.
9. A valise, polyurethane coated nylon, is provided for stowage of the complete tent.

WEIGHT AND DIMENSIONS

10.	Weight	40.82 kg (90 lbs)
	Pitching space	9 m x 9 m (30 ft x 30 ft)
	Length	4.29 m (14 ft 1 in)
	Width	3.96 m (13 ft)
	Height	2.31 m (7 ft 7 in)

**COMPONENTS**

11. The components of one tent consist of the following items which are illustrated in Fig 1.

Key see Fig 1	Item	Catalogue number	Quantity
D	Bag, tent pin	J1/8340-99-132-4176	1
H	Base, tent pole	J1/8340-99-138-0431	2
A	Canvas, tent	J1/8340-99-132-4174	1
B	Liner, tent	J1/8340-99-132-4175	1
E	Pin, tent, 12 in	J1/8340-99-132-0028	31
G	Pole, tent, upright	J1/8340-99-138-0429	2
F	Pole, tent, ridge	J1/8340-99-138-0430	1
C	Valise, tent	J1/8340-99-132-4173	1

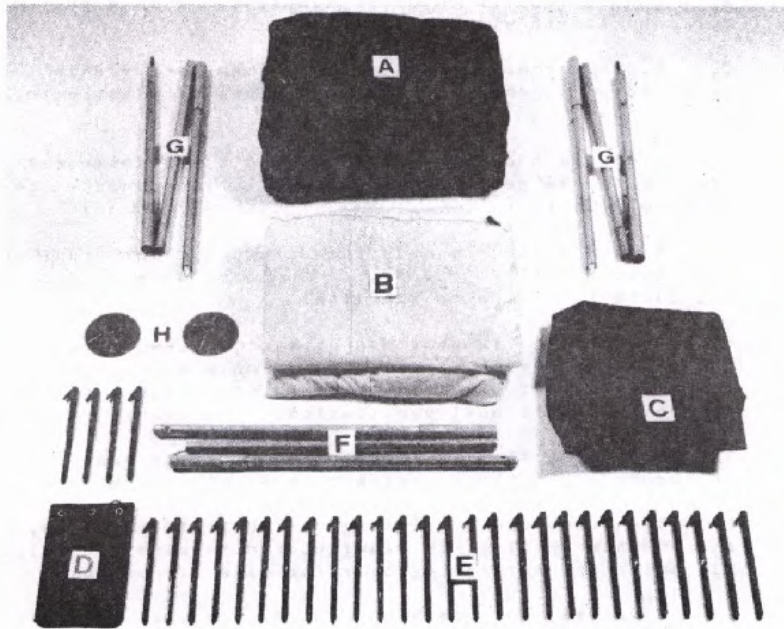


Fig 1- Components A to H

3378A-1

GENERAL INSTRUCTIONS

12. The shelter should be pitched on level ground.
13. It is essential that adequate ballast is placed at the bottoms of the walls and ends of the tent. Spoil from drainage trenches or snow is suitable for this purpose. The spoil may be used in sandbags or other flexible containers, if available.

INSTRUCTIONS FOR PITCHING

14. Pitching party - two men
15. The method of pitching is illustrated in Figs 2 to 10 inclusive and the ground plan is at Fig 11.

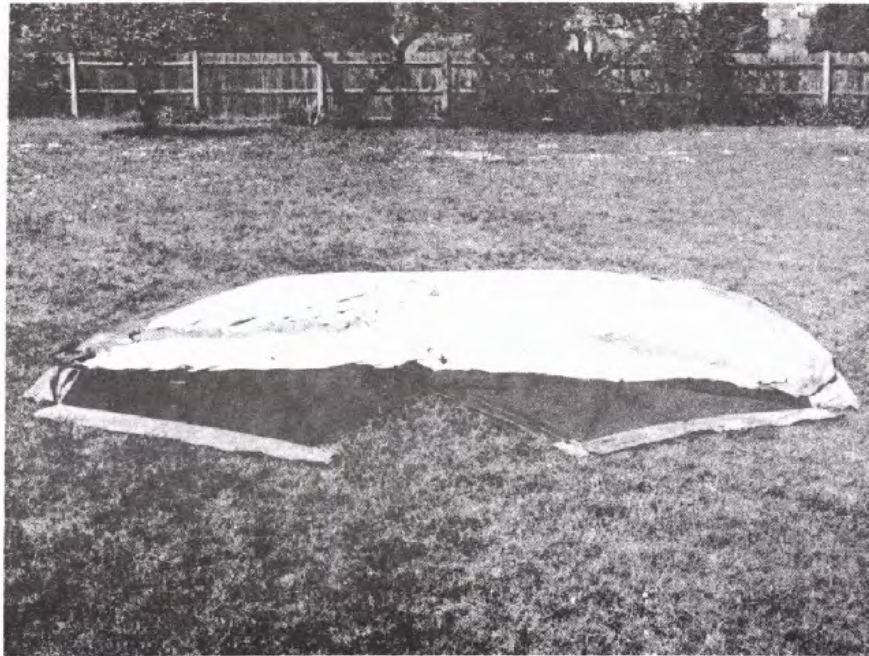
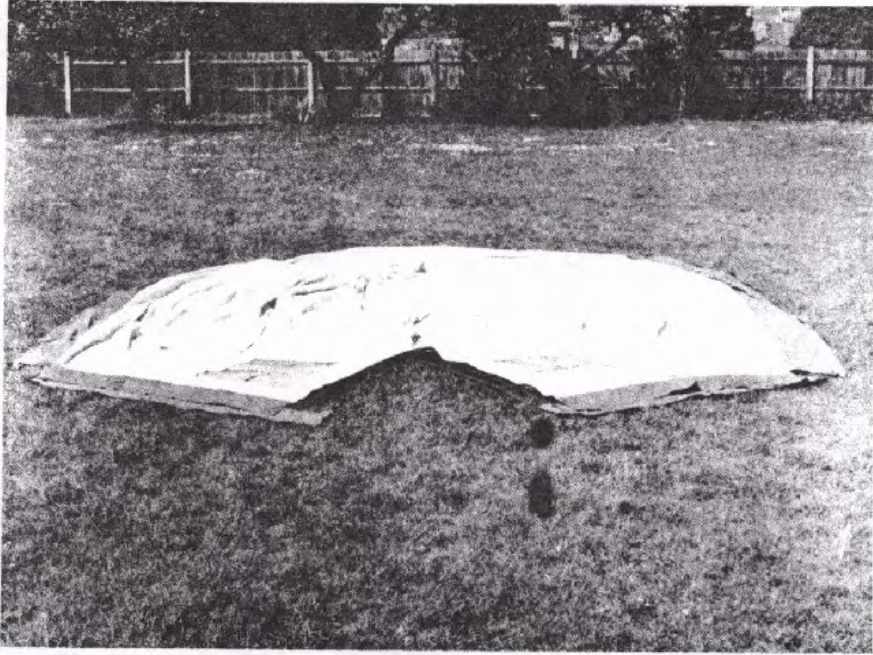
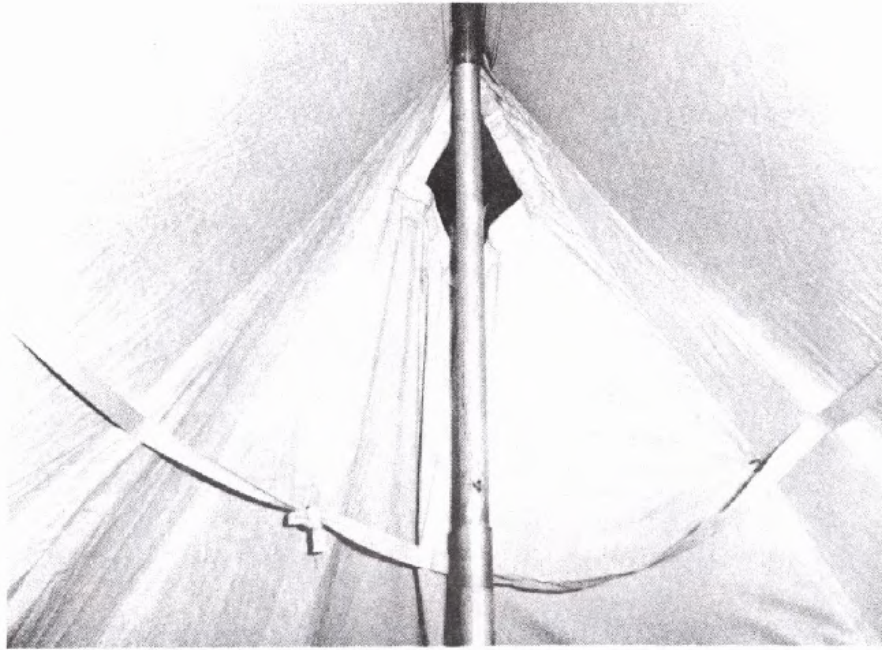


Fig 2      3378B-1  
Layout tent canvas outer, attach liner with the toggles  
and loops as illustrated above and in Fig 3



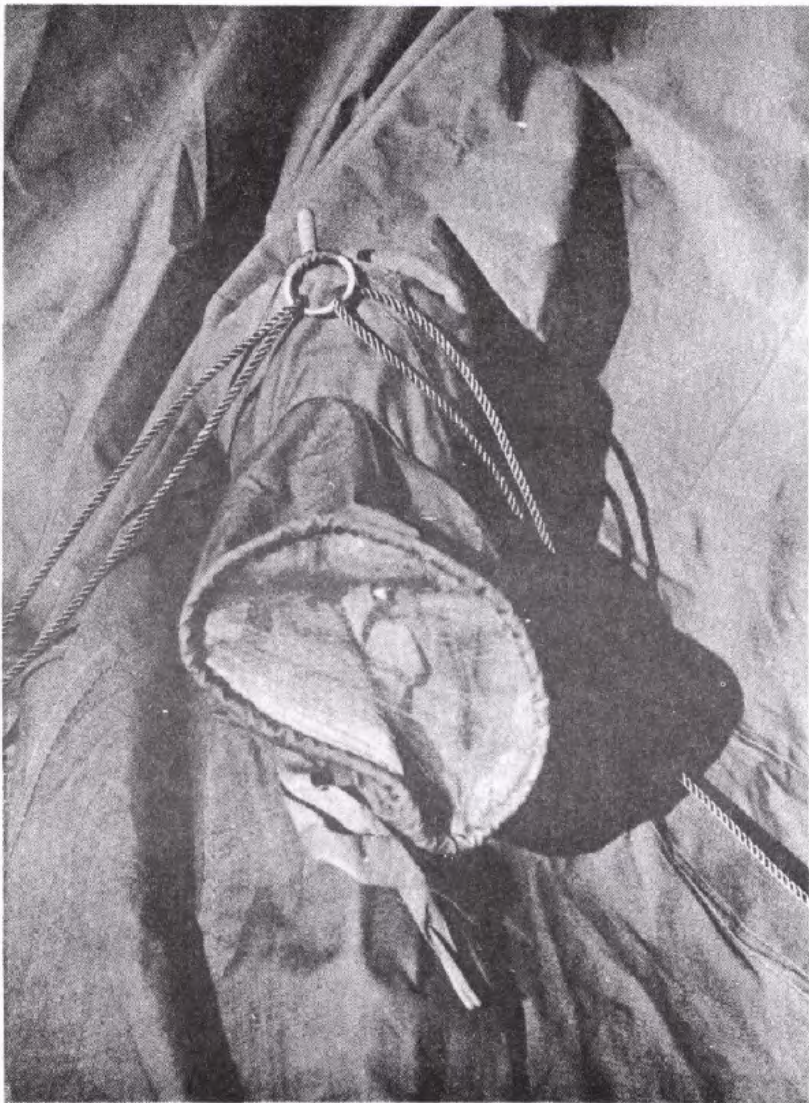
3378B-2

Fig 3 - Liner attached to canvas outer



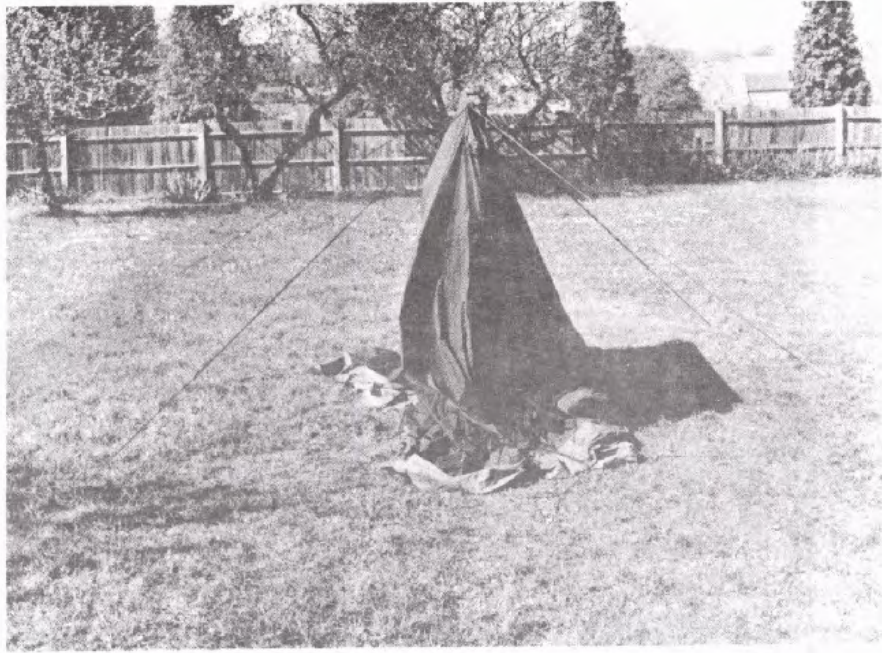
3378B-10

Fig 4 - Position pole tent ridge and insert pole tent leg into the holes provided through both liner and outer canvas as illustrated above and in Fig 5 and attach base tent pole.



3378B-4

Fig 5 - Pole tent leg in position in pole tent ridge



3378B-5

Fig 6 - Lift the complete ensemble into position and peg out  
guy lines taut to hold erect as illustrated above and  
in Fig 7.





Fig 7 - Tent partially erected

3378B-9



3378B-6

Fig 8 - Peg out tent side guy lines and pin down tent foot loops around base of tent walls. It is essential to ballast tents with soil or snow.



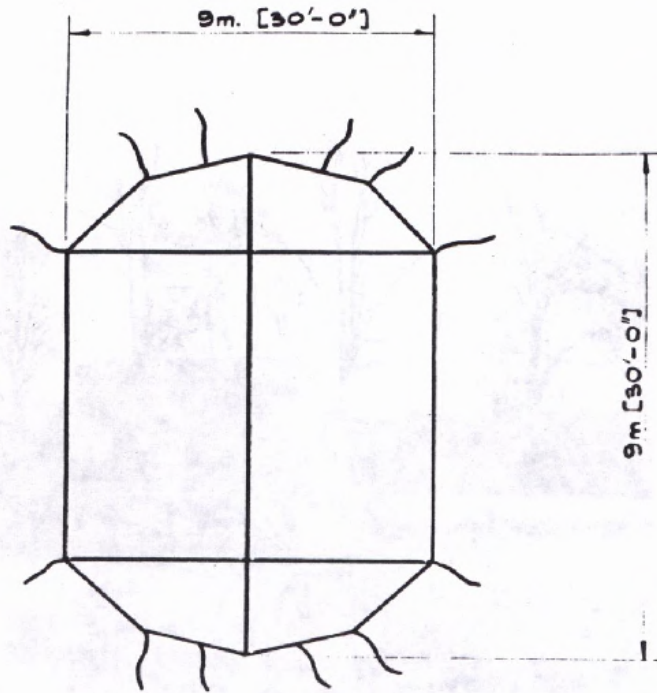
3378B-8

Fig 9 - Tent erected with door flap in the open position and illustrating the position of the cooking flap.



3378B-7

Fig 10 - Tent erected with door flap in the closed position



GROUND PLAN  
TENT [ARCTIC IO MAN.]  
NOT TO SCALE

FIG. 11

8380A-13

Fig 11 - Ground plan

#### INSTRUCTIONS FOR STRIKING

16. Warning - Wet Canvas Wet canvas should never be folded or packed unless circumstances render this unavoidable. Tents should therefore be left to dry thoroughly before they are struck. Should it be necessary to strike a tent when the canvas is not perfectly dry, strict compliance is essential with the instruction given in para 19 below.

17. Striking is carried out in the reverse order to pitching, requires a striking party of two men and in normal circumstances takes 15 mins.

#### INSTRUCTIONS FOR FOLDING

18. Fold the tent at the ridge, lay flat on ground, fold in the triangular ends leaving a rectangular shape, fold in the outer edges of the canvas to meet in the centre, then fold over edge to edge, finally roll to form the smallest possible package.

#### INSTRUCTIONS FOR PACKING

19. Wet canvas should never be folded and packed unless circumstances render this unavoidable. Whenever it becomes necessary to pack canvas in a wet condition the packages are to be marked clearly 'NOT DRY' to indicate that the canvas was packed in a wet condition. If the canvas is being retained on the camp site, the officer in charge is to be notified of the condition of the canvas so that he can arrange for it to be dried at the earliest opportunity. If the canvas is to be dispatched, the consignee is to be notified by telephone or signal so that the canvas can be unpacked and dried as soon as possible after receipt.

20. The canvas and poles should be packed into the valise, tent for storage and movement. The steel pins should be packed in the bag provided and then placed inside the valise.

	Passageway Shelter Straight	Extension
--	--------------------------------	-----------

b. Pack no 2 (bag)

Bag, shelter frame	1	1
Bag, tent pin	1	1
Frame, shelter, base, wall member	6	4
Frame, shelter, bracket, apex	9	6
Pin, tent, steel 10 in (in bag, tent pin)	6	6

39. Passageway, shelter, 4-way connector. When packed the components are packed into two packs as follows:

a. Pack no 1 (valise)

Valise, shelter frame	1	
Bag, tent pin	1	
Canvas, passage section	1	
Frame, shelter, bracket, roof support	1	
Frame, shelter, roof member	8	
Frame, shelter, universal member	4	
Hammer, hand	1	
Pin, tent steel, 10 in (in bag tent pin)	8	

b. Pack no 2 (bag)

Bag, shelter frame	1	
Frame, shelter, base, wall member	4	
Frame, shelter, bracket, apex	4	
Frame, shelter, bracket, corner	4	