



HELIPAD A2X 226028

USER'S MANUAL



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Amendments list summary

User's Handbook			
Version	Date	Section and Page number	Reason for change
0	2014, Nov.	All	Initial version in French
1	2018, July	All	English version

1. HELIPAD A2X™ KIT DESCRIPTION

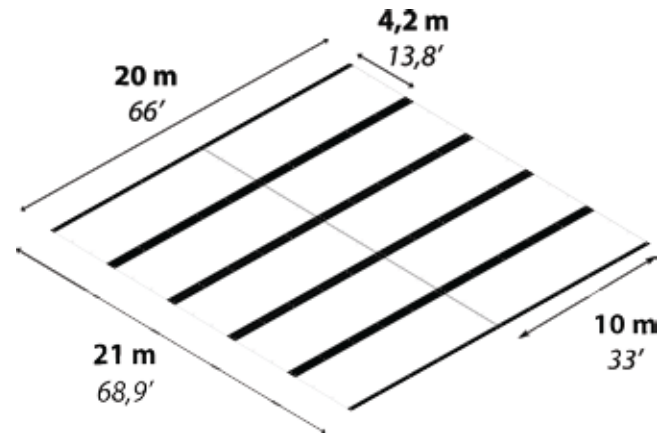
1.1 HELIPAD usefulness

The 10 rolls HELIPAD A2X kit enables to create a 21m x 20m landing zone.

Mobi-Mat® Helipad is designed for the rapid and safe establishment of landing zones for expeditionary Forward Operating Bases (FOB), Forward Arming and Refueling Point (FARP), Drop Zones (DZ), and Medical Evacuation (MEDEVAC).


Safe and cost effective: Mobi-Mat® Helipad reduces the hazards caused by blowing sand, dirt, snow and stones while preventing damage to either the aircraft or personnel. The matting saves on the wear and tear on expensive helicopter rotor blades and engines by reducing the introduction of FOD (Foreign Object Damage).



The deployment of HELIPAD A2X only requires a few men and no specific equipment. The HELIPAD is mainly made of woven polyester, both light and load bearing, called Mobi-Mat® A2X.





1.2 HELIPAD Mobi-Mat® A2X 21m x 20m Kit

A2X Mobi-mat® Helipad 21m x 20m - 226028

Product Ref	Item Ref	Designation	Qty	Unit weight	Picture
202 700	MOBI-MAT® A2X 10 m x 4,20 m		10	71	
	101	Rectangular rollable white Mobi-mat® PANEL 10 m x 4,2 m	42 m ²		
	192725	Stainless steel 35mm diameter eyelets on periphery of each per panel for anchoring and connection	16		
	192726	Handling straps with two loops per roll panel for easy unloading from container and loading inside and MI-8 Helicopter or during installation/removing	2		

Tools for Ground anchoring panels per Helipad					
	154637	500mm stake	76	2	
	153562	Sledgehammer	1	5	

Side by side connectors panels per Helipad					
	192724	Heavy duty textile straps with secured stainless steel	32	0.06	

Stakes removing tool per Helipad					
	168317	Crowbar	1	1	

1.3 Safety rules and limits of use

All accessories must be tidied after installation of the 10 rolls:

20	Handling strap
1	Instruction manual
1	Sledgehammer
1	Crowbar

It is essential to control the proper anchoring before a first landing.

2. HELIPAD A2X™ INSTALLATION

2.1 Staff needed

A team of 4 persons is the optimum to quickly and safely build an helicopter landing area : team members are as follows :

- 1 team chief,
- 3 persons for mats handling and anchoring.

The helicopter pilot Officer, must check the helipad after installation in order to verify that the mats are correctly anchored.

The building time varies according to ground conditions and number of operators.



2.2. Helicopter landing zone implantation

Determine the area in which direction the Helipad will be installed.

IMPORTANT : the longitudinal axis of the Helipad must be parallel to the direction of helicopter landing.

In order to materialise the helicopter landing area, stake out the four corners with stakes temporarily.



2.3 Ground preparation

Take out of the area all items like large stones, or any other elements which might be hard or sharp.



2.5 Installation

2.5.1 Rules to follow for optimal helipad installation

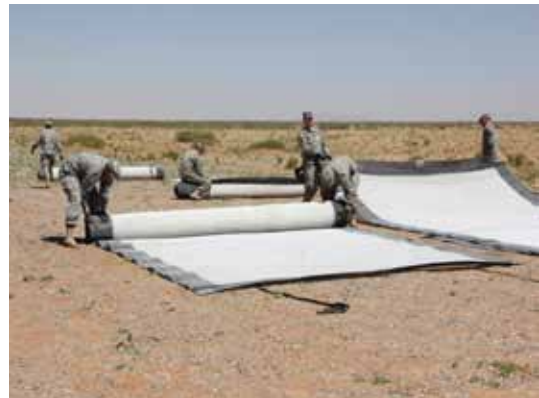
The below method, to build the Helipad, is an «assistance» for the persons in charge, but according to the ground condition, some phases may be shifted or inverted.

2.5.2 Mats and anchors positioning

Near by the chosen area, put all the mats, accessories and tools together in one place which can be called "outdoor store", in order to make easier the helicopter landing zone construction.

Once the handling straps are removed, keep them together in the "outdoor store".

**NB : Make sure that no accessories for anchoring and connection, are near or onto the Helicopter landing area.
Systematically put the accessories in the "outdoor store".**



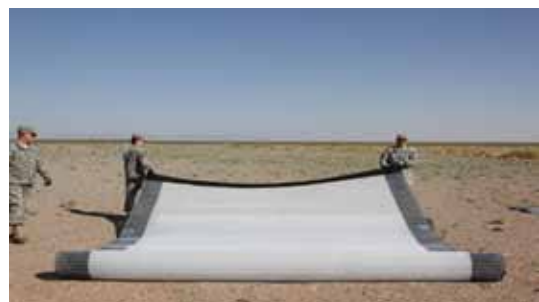
2.5.3 Mat unrolling and reversal

Mats are stored and transported in rolls. Consequently, when you unroll them, ends tend to rise, which is detrimental to the flatness of the landing area. Mats will have to be reversed just after have been unrolled, in order to build a perfect flat landing area.

This fact was taken into account in the factory in shipping Helipad lots.

To reverse the mats :

- unroll the mat,
- take the 2 handling hooks out of the stake and tools bag,
- 2 operators, each using a handling hook, lift one side of the mat and drag it to the other side.



For ease of installation, follow the enclosed phases and legend

Legend :

 • Setting up a stakes

 • Tension the mat

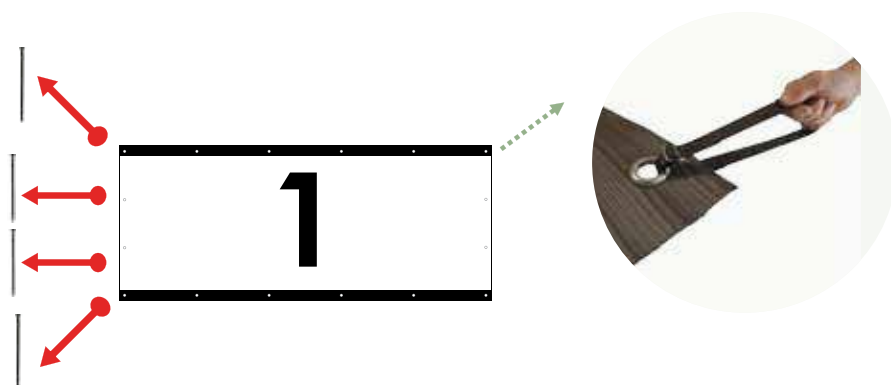
 • Stakes already inserted

 • Eyelet link

Phase 1 :

Once the mats have been positioned on the ground, first, anchor the left lateral border of the mat 1 to the ground with one stake. See below drawing.

Use a Eyelet link to tension the mat as much as possible on the opposite lateral side.



Stakes positioning

As shown in the below picture, stakes are inserted with an angle of 15° to 20°.



Legend :

 • Setting up a stakes

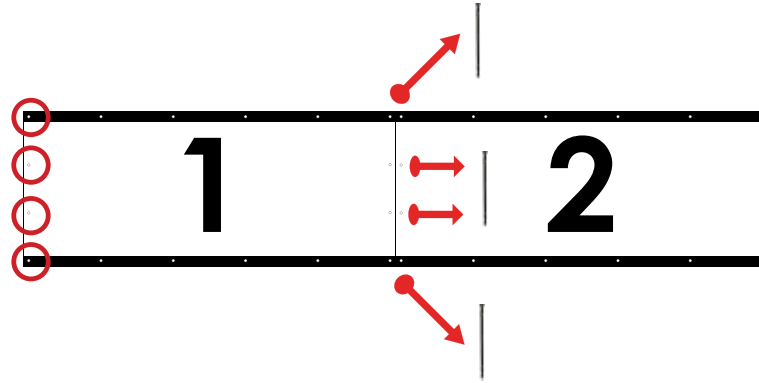
 • Tension the mat

 • Stakes already inserted

 • Eyelet link

Phase 2 :

Mat 1 and Mat 2 are overlapped on their width therefore anchor the 4 stakes



Phase 3 :

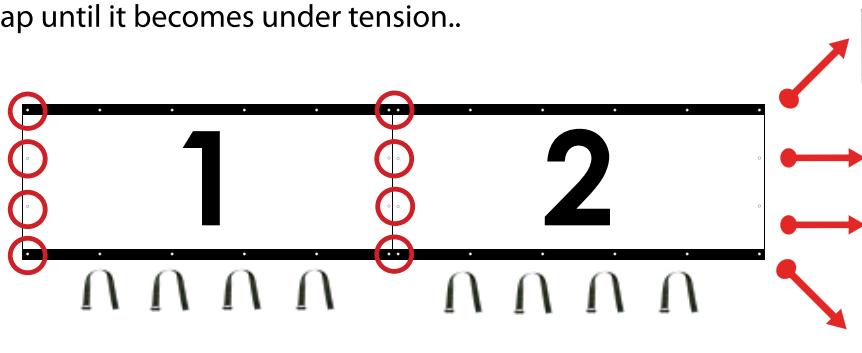
Finally the right lateral border of the mat N°2 is also anchored to the ground in giving some tension to the mat.

Simultaneous, position the Eyelet link:

- Insert the textile strap into the eyelet of the upper mat, then recover the textile strap through the second eyelet.
- Insert the textile strap into the stainless steel fastener.
- Pull the textile strap until it becomes under tension..



Eyelet link



Legend :



• Setting up a stakes



• Tension the mat



• Stakes already inserted

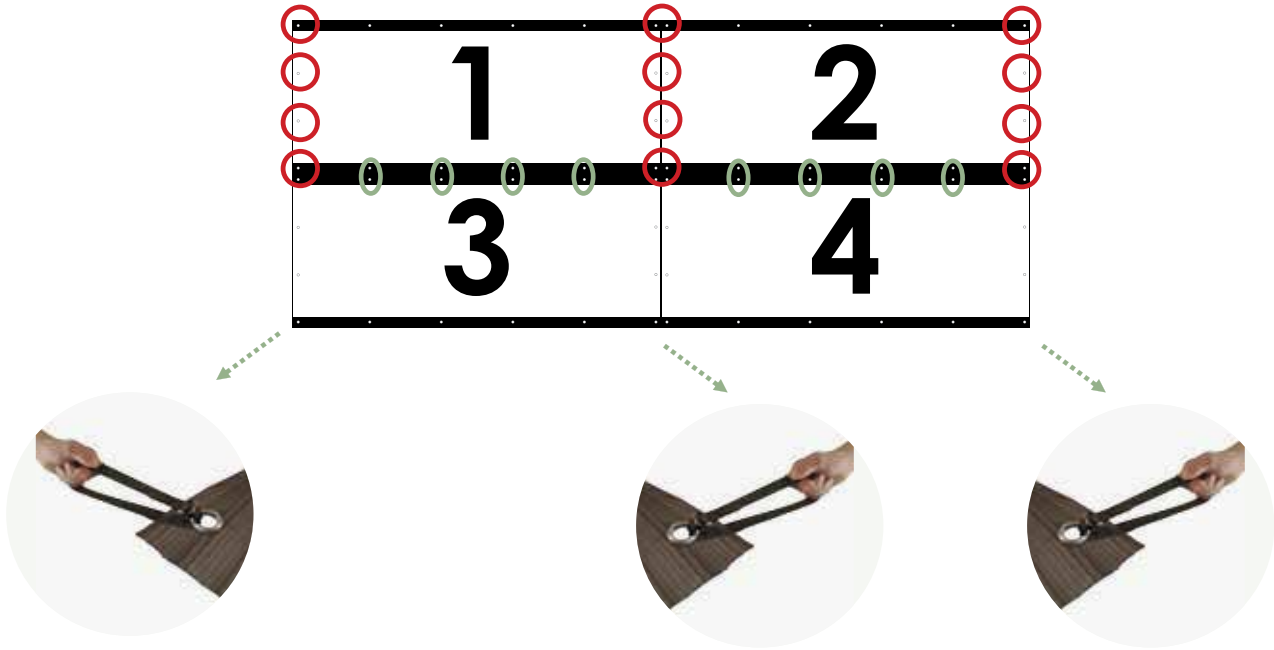


• Eyelet link

Phase 4 :

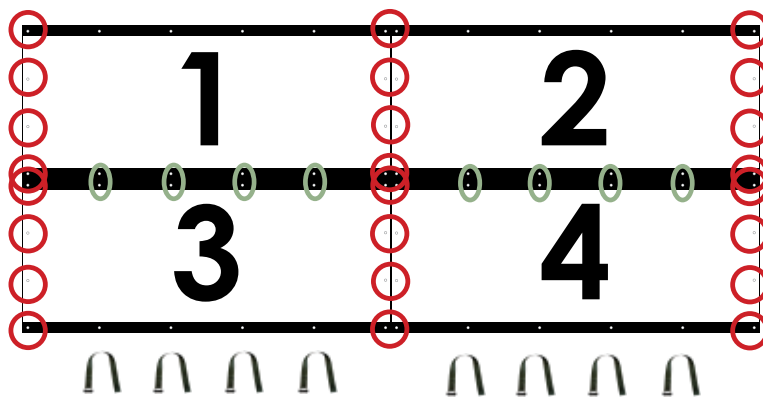
Place mat N° 3 and 4 parallel, in their length, to the mat N° 1 and 2 in making sure that there are overlapped in their width (as done before with mat N° 1 and 2). Then connect the mats N° 3 - and 4 to the mats N° 1 and 2, with Eyelet link. During this operation, care must be taken to raise slightly the edges of the mat N° 3 and 4 in order to bring them together to set up Eyelet link.

Mat tension (along their length) is done by using a Eyelet link and fix the mat N°3 with stakes.



Phase 5 :

Once the mats N°3 is tight insert the stakes in the overlapped width (as done before). Anchor the right lateral border of mat N°4 to the ground once it has been tightened. Simultaneously, put the Eyelet link as described in phase 3.

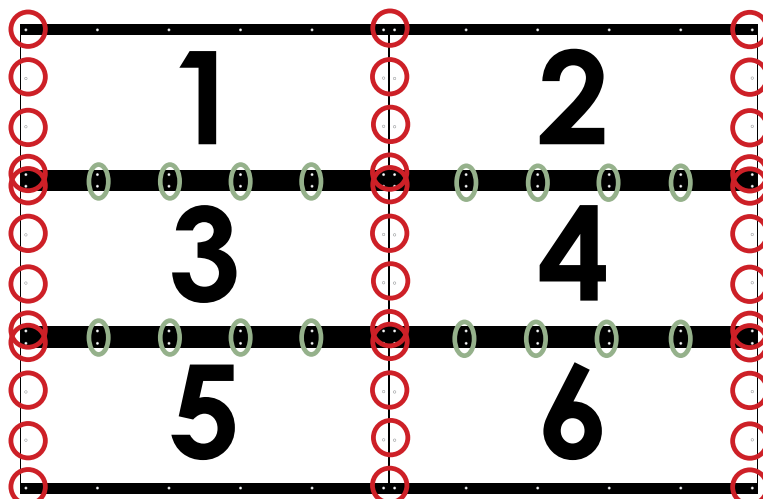


Legend :



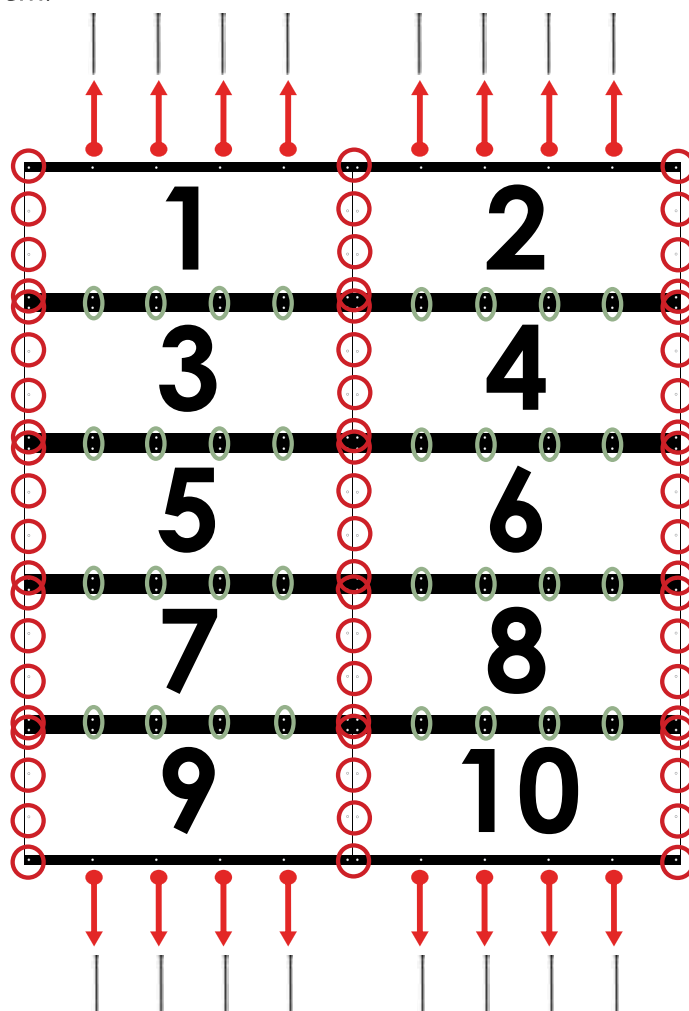
Phase 6 :

Repeat the phases 4 to 5 as above for mats N° 5 - 6, 7 - 8 and 9 -10.



Phase 7 :

In the last operation insert stakes into the eyelets on the outside length border of mats N° 1 - 2 and N° 9 - 10 once you have tightened them.



Once the Helipad has been completely installed, the responsible person in charge must inspect in details all the mats (Eyelet link checking, stakes complete insertion...). Moreover he must be sure that no particular accessories and tools are left onto and around the Helipad.

Recall : the Helicopter Pilot Officer must check if the Helipad is properly in place and that nothing prevents the use of helicopter (Technical and operational validation).

3. HELIPAD A2X DISMANTLE AND RECONDITIONING

3.1 Remove stakes

First, remove all stakes.

Lift the stake head with a crowbar



3.2 Remove eyelet link

Maintained the stainless steel fastener, push the textile strap through it and pull the textile strap.



3.3 Rolling of the mat

This operation simply consists in winding the mats, once they have been flipped so that the identification label remains on the inside of the roll.

- In order to make the handling easier, put the handling straps at the end of the winding process.

- Fasten the roll by tightening the handling strap.

Information: during the mat winding, make sure the mat forms a right roll, not a spiral. If so, correct it immediately for easier reconditioning.

Before reconditioning for long term storage, clean the mat as stated in the next page.

Place the rolls in their packing and tools in their carrier bags.



4. HELIPAD A2X MAINTENANCE

4.1 Cleaning

Thanks to its porous structure, the Helipad can easily be cleaned with water.

It supports the use of a high pressure washer (if the temperature is below 80 °), but a simple low pressure hose is enough.

If a cleaning product is used, it must be neutral, slightly basic or acidic but not excessively.



When Helipad is used in sand, it is recommended to «beat» the mats in order to remove the sand that gets caught.

Wet mat can be rolled, it will dry without risk, and is not affected by salted water.

4.2 Storage

When helipad A2X rolls are stored on pallets, always place the extremity of the roll on the top to identify immediately the unwinding direction.

Helipad fabric is 100% polyester. It is therefore rot-proof, UV resistant and can be stored outside. However, a storage inside or under cover is better, more particularly if the rolls are stored for long periods. Stable from -40 ° C to +80 ° C, the Helipad supports all climates. The freeze does not affect the Helipad because its retention of water is close to 0.04%.



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CAGE Code 3N2Z7



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