

HELICOPTER LANDING MAT

TECHNICAL DATA

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HLM MLC 70 PANEL OPTION

MLC 70 PANEL OPTION SYSTEM INTEGRATION

The information contained herein is based upon the requirement for a 30m x 30m Forward Operating Pad (FOP) for Vertical Take Off and Landing (VTOL) aircraft.

The equipment is palletized in kit form, delivered to site and deployed by hand to create a Landing Point (LP) suitable for the following types of aircraft, or equivalent:

- Light Observation Helicopter (LOH) e.g. Gazelle
- Light Utility Helicopter (LUH) e.g. Lynx
- Anti-Tank Helicopter (ATH) e.g. Apache
- Attack Helicopter (AH) e.g. Cobra
- Light Support Helicopter (LSH) e.g. Merlin, Puma, Sea King
- Medium Support Helicopter (MSH) e.g. Chinook

Kits are required to create a Landing Zone (LZ) with a choice of Landing Points (LP).

DESIGN PRINCIPLE

Helicopter Landing Mat is designed to:

- provide a temporary/semi-permanent landing point
- prevent Foreign Object Damage (FOD) and therefore protect aircraft assets
- alleviate brown out
- clearly mark a permissible landing area
- create a safe landing area for multiple aircraft
- create a safe working/loading area ground personnel
- promote ground/environmental protection
- facilitate multiple landings at the same location
- be easy to deploy and recover using minimal manpower
- be re-usable and recyclable, have a long working life and have residual value in terms of disposal

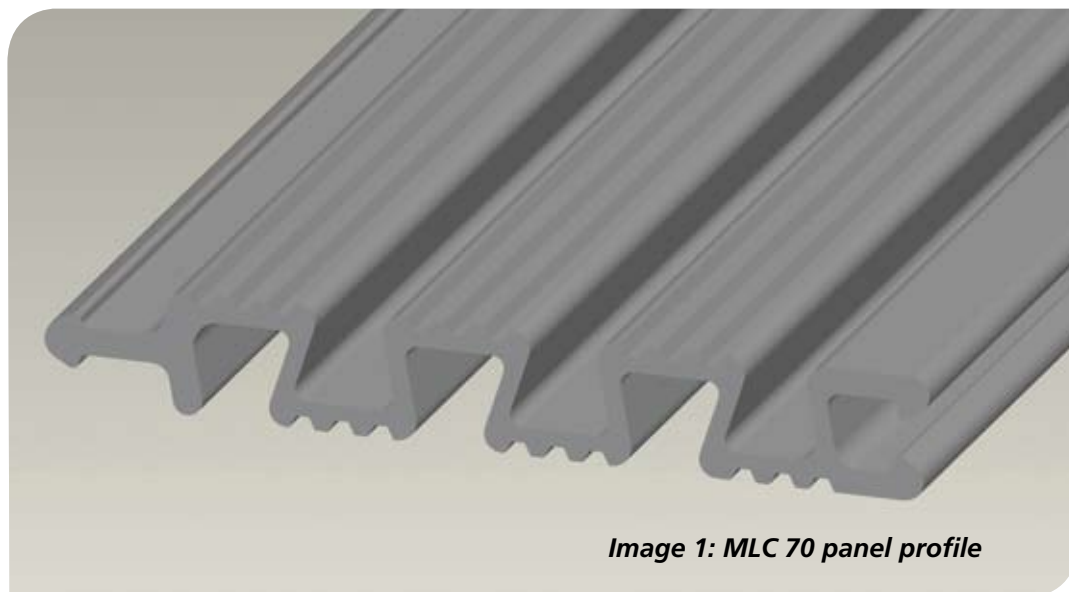


Image 1: MLC 70 panel profile

WEIGHT AND DIMENSIONS

	MLC 70 PANEL
Width (effective)	209mm
Length	4.57m
Height	31mm
Weight	33kg
Colour	ANODISED

PARTS LIST

Helicopter Landing Mat FOP 30m x 30m consists of the following parts:

Name	QTY
Long panels	858
Short panel	143
Fairing panel long female	6
Fairing panel long male	6
Fairing panel short female	1
Fairing panel short male	1

GROUND ANCHORAGE EQUIPMENT LIST

Helicopter Landing Mat FOP 30m x 30m consists of the following ground anchorage equipment to ensure the mat is secured:

Name	QTY
Picket stakes	90
Portable electric hammer	3
Pickets removal tool Comprising: Hook assembly Shackle SWL 2 ton Chain, welded	3
L shaped key, socket head screw	4
Sledge hammers	2

ACCESSORIES LIST

Helicopter Landing Mat FOP 30m x 30m consists of the following accessories:

Name	QTY
Neoprene membrane	1000m ²
Air portable pallets	6

PACKAGING CONSIDERATIONS

The Helicopter Landing Mat FOP 30m x 30m is packed into eight Ferguson pallets which can be transported by air, rail or vehicle. A packaging layout is available upon request.

LAYING TIMES AND PROCEDURE

Stage	Detail	Time	Personnel
1. Preparation	Clear site Sort and stack panels by type	3 – 60 hrs 2 hrs	8 + NCO
2. Identification	Mark out the laying area using cross tape	0.5 hrs	2 + NCO
3. Laying	Lay membrane Lay panels in accordance with layout diagram	0.5 hrs 2.5 hrs	8 + NCO 8 + NCO
4. Anchoring	Anchor using picket, VTOL long Create pilot holes using electric rotary hammer in case of very hard (frozen) ground	2 hrs	4 + NCO
5. Navigation Aids	Set up navigation aids/ markings	1 hr	2 + NCO
Total		Min : 11.5 hrs Max : 68.5 hrs	8 + NCO

HLM PSA PANEL OPTION

PSA PANEL OPTION SYSTEM INTEGRATION

The information contained herein is based upon the requirement for a 30m x 30m Forward Operating Pad (FOP) for Vertical Take Off and Landing (VTOL) aircraft.

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- Attack Helicopter (AH) e.g. Cobra
- Light Support Helicopter (LSH) e.g. Merlin, Puma, Sea King
- Medium Support Helicopter (MSH) e.g. Chinook

Kits are required to create a Landing Zone (LZ) with a choice of Landing Points (LP).

The aluminum PSA panel design is a preferred HLM solution. It can withstand a maximum weight of up to 80 tonnes, dependent upon tyre pressure and CBR of ground.

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- create a safe working/loading area ground personnel
- promote ground/environmental protection
- facilitate multiple landings at the same location
- be easy to deploy and recover using minimal manpower
- be re-usable and recyclable, have a long working life and have residual value in terms of disposal



Image 2: PSA panel profile

WEIGHT AND DIMENSIONS

	PSA PANEL
Width (effective)	250mm
Length	2.64m
Height	22mm
Weight	10.6kg
Colour	ANODISED

PARTS LIST

Helicopter Landing Mat FOP 30m x 30m consists of the following parts:

Name		QTY
VTOL FOP: extruded, machined, interlocking panels	Anodized	1212
Half panels, left	Red	63
Half panels, right	Green	62
Side anchor panels, left	Red	44
Side anchor panels, right	Green	44
End anchor panels, six-hole	Blue	36
End anchor panels, four-hole	Green	4

GROUND ANCHORAGE EQUIPMENT LIST

Helicopter Landing Mat FOP 30m x 30m consists of the following ground anchorage equipment to ensure the mat is secured:

Name	QTY
Picket stakes	180
Portable electric hammer	3
Pickets removal tool Comprising: Hook assembly Shackle SWL 2 ton Chain, welded	3
L shaped key, socket head screw	4
Sledge hammers	2

ACCESSORIES LIST

Helicopter Landing Mat FOP 30m x 30m consists of the following accessories:

Name	QTY
Neoprene membrane	1000m ²
Air portable pallets	6

PACKAGING CONSIDERATIONS

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LAYING TIMES AND PROCEDURE

Stage	Detail	Time	Personnel
1. Preparation	Clear site Sort and stack panels by type	3 – 60 hrs 2 hrs	8 + NCO
2. Identification	Mark out the laying area using cross tape	0.5 hrs	2 + NCO
3. Laying	Lay membrane Lay panels in accordance with layout diagram	0.5 hrs 1.5 hrs	8 + NCO 8 + NCO
4. Anchoring	Anchor using picket, VTOL long Create pilot holes using electric rotary hammer in case of very hard (frozen) ground	3 hrs	4 + NCO
5. Navigation Aids	Set up navigation aids/ markings	1 hr	2 + NCO
Total		Min : 11.5 hrs Max : 68.5 hrs	8 + NCO

HLM ALM PANEL OPTION

ALM PANEL OPTION SYSTEM INTEGRATION

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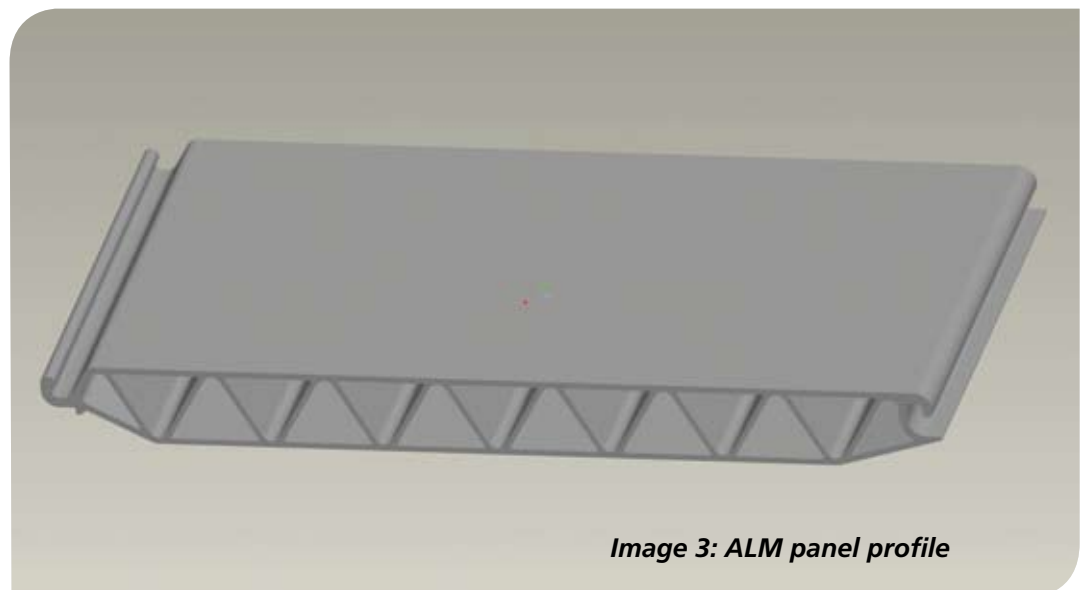


Image 3: ALM panel profile

WEIGHT AND DIMENSIONS

	ALM PANEL
Width (effective)	350mm
Length	2.64m
Height	31mm
Weight	22kg
Colour	ANODISED

PARTS LIST

Helicopter Landing Mat FOP 30m x 30m consists of the following parts:

Name	QTY
Full panels	990
Half panels	90
Fairing panel long male	11
Fairing panel long female	11
Fairing panel short male	1
Fairing panel short female	1

GROUND ANCHORAGE EQUIPMENT LIST

Helicopter Landing Mat FOP 30m x 30m consists of the following ground anchorage equipment to ensure the mat is secured:

Name	QTY
Picket stakes	180
Portable electric hammer	3
Pickets removal tool Comprising: Hook assembly Shackle SWL 2 ton Chain, welded	3
L shaped key, socket head screw	4
Sledge hammers	2

ACCESSORIES LIST

Helicopter Landing Mat FOP 30m x 30m consists of the following accessories:

Name	QTY
Neoprene membrane	1000m ²
Air portable pallets	6

PACKAGING CONSIDERATIONS

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SERVICE AND SPARES

- Worldwide training available
- Basic service requirements due to low maintenance system
- Palletized spares kits available

DOCUMENTATION

Helicopter Landing Mat is supplied with the following documentation in English as standard. Translation into local language, and/or alternative formats can be provided upon request.

- Operator manual
- Technical and maintenance manual
- Illustrated parts catalogue

OPTIONAL EXTRAS

- Airfield lighting
- Heat resistant painted panels
- Texturised paint for non-slip application
- Pre-painted markings

