

AIRCRAFT LANDING MAT TECHNICAL DATA

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ALM PANEL OPTION

SYSTEM INTEGRATION

The information contained herein is based upon the requirement for a standard temporary runway for aircraft wishing to take off and land at sea level. The standard runway size is 22m (72ft) width x 1600m (5,250ft) length, with a total area of 35,200m² (378,889ft²).

The equipment is palletised in kit form, delivered to site and deployed by hand to create a runway suitable for the following types of aircraft, or equivalent:

- C130
- C17
- F15

Kits are required to create a temporary runway, for takeoff, landing and taxi purposes. Additional hard standing for aircraft storage can also be created.

The aluminum ALM panel design is a preferred ALM solution. It can withstand weights of up to 228,497kg/m² (325 PSI), dependent upon tyre pressure and CBR of ground.

DESIGN PRINCIPLE

Aircraft Landing Mat is designed to:

- provide a temporary/semi-permanent landing and takeoff area
- 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

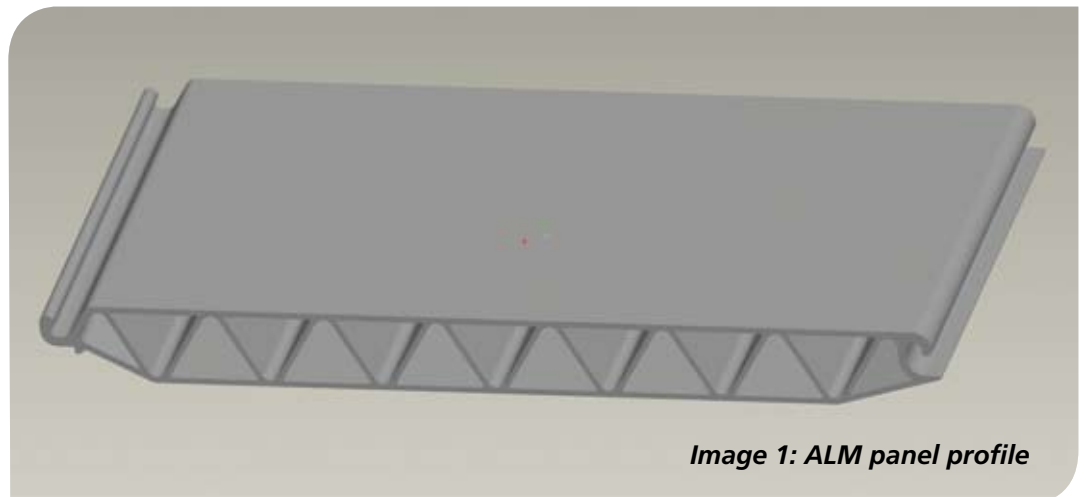


Image 1: ALM panel profile

PARTS LIST

Aircraft Landing Mat 22m (72ft) x 1600m (5,250ft) consists of the following parts:

Name	QTY
Full panels	37,136
Half panels	3,376
Ground anchor pickets	500
Keylock	37,136

WEIGHT AND DIMENSIONS (PARTS)

	FULL PANEL	HALF PANEL	KEYLOCK
Width (effective)	335mm (13.2in)	335mm (13.2in)	-
Length	2.66m (8.72ft)	1.33m (4.36ft)	-
Height	31mm (1.22in)	31mm (1.22in)	-
Weight	21.22kg (43.44lbs)	10.8kg (23.8lbs)	0.4kg (0.8lbs)
Weight + paint finish option	+ 1.1kg/m ² (+0.2lbs/ft ²)	+ 1.1kg/m ² (+0.2lbs/ft ²)	-
Finish	Anodised/Painted/Anti Slip (Optional)		

WEIGHT AND DIMENSIONS (COMPLETE MAT)

	COMPLETE (metric)
Width (effective)	22m (72ft)
Length	1600m (5,250ft)
Height	31mm (1.22in)
Weight	839,341kg (1,850,430lbs)

ACCESSORIES LIST

Aircraft Landing Mat 22m (72ft) x 1600m (5,250ft) consists of the following accessories:

Name	QTY
Neoprene membrane	38,448m ² (413,851ft ²)
Air portable pallets	400

PACKAGING CONSIDERATIONS

Aircraft Landing Mat 22m (72ft) x 1600m (5,250ft) is packed into 400 NATO standard pallets which can be transported by air, rail, sea 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 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	2 + NCO
5. Navigation aids	Set up navigation aids/markings	1 hr	2 + NCO
Total		Min: 11.5 hrs Max: 68.5 hrs	8 + NCO

SERVICE AND SPARES

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

DOCUMENTATION

Aircraft 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

PSA PANEL OPTION

SYSTEM INTEGRATION

The information contained herein is based upon the requirement for a standard temporary runway for aircraft wishing to take off and land at sea level. The standard runway size is 22m (72ft) width x 1600m (5,250ft) length, with a total area of 35,200m² (378,889ft²).

The equipment is palletised in kit form, delivered to site and deployed by hand to create a runway suitable for the following types of aircraft, or equivalent:

- C130
- Harrier
- All rotary wing aircraft

Kits are required to create a temporary runway, for takeoff, landing and taxi purposes. Additional hard standing for aircraft storage can also be created.

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

DESIGN PRINCIPLE

Aircraft Landing Mat is designed to:

- provide a temporary/semi-permanent landing and takeoff area
- 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 2: PSA panel profile

WEIGHT AND DIMENSIONS

	PSA PANEL
Width (effective)	250mm (9.8in)
Length	2.74m (9ft)
Height	22mm (0.89in)
Weight	10.6kg (23.36lbs) + 1.75kg (3.85lbs) for paint finish
Finish	Anodised/Painted (optional)

PARTS LIST

Aircraft Landing Mat 22m (72ft) x 1600m (5,250ft) consists of the following parts:

Name		QTY
PSA: extruded, machined, interlocking panels	Anodised	54,670

ACCESSORIES LIST

Aircraft Landing Mat 22m (72ft) x 1600m (5,250ft) consists of the following accessories:

Name	QTY
Neoprene membrane	38,448m ² (413,851ft ²)
Air portable pallets	280

PACKAGING CONSIDERATIONS

Aircraft Landing Mat 22m (72ft) x 1600m (5,250ft) is packed into 280 NATO standard pallets which can be transported by air, rail, sea 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 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	2 + NCO
5. Navigation aids	Set up navigation aids/markings	1 hr	2 + NCO
Total		Min: 11.5 hrs Max: 68.5 hrs	8 + NCO

SERVICE AND SPARES

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

DOCUMENTATION

Aircraft 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

