



DESCHAMPS

SINCE 1860

TENTFLOOR

TECHNICAL SPECIFICATION



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SINCE 1860

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SUMMARY

1.	FUNCTION OF THE MATERIAL	3
2.	DESCRIPTION AND SPECIFICATIONS.....	3
2.1.	DESCRIPTION	3
2.2.	DETAILED DESCRIPTION	5
2.3.	TEST AND CERTIFICATION STATEMENTS.....	6
3.	EXAMPLE OF USE	7

1. FUNCTION OF THE MATERIAL

The Tentfloor™ mobility mat is used to create temporary trails or stabilizing ground under tent. Made of patented synthetic mesh, it can be used on a wide variety of terrain. Once a mission is over it can be cleaned and re-packed for future deployments.

2. DESCRIPTION AND SPECIFICATIONS

2.1. DESCRIPTION

The Tentfloor™ is the ideal product to create temporary walkways and facility flooring for mobile camps. It is also suitable for shelters, hangars, dining halls, kitchen, maintenance shop and all type of tents. A Mobi-Mat® Tentfloor™ provides primary and secondary flooring to support expeditionary forces flooring requirement.



Like all other Mobi-Mat® product, the Tentfloor™ is delivered in compact roll. It is unpacked and repacked on the easiest way, and installed by soldiers with a minimum training as the required tooling equipment for the installation is reduced to the minimum. This also ensures a maximum security for the personnel involved in the installation.



The Tentfloor™ is made in Dark Brown colour. The product can be installed around or inside the camps elements.

Low cubic volume : Mobi-Mat® Tentfloor™ is a lightweight air-transportable roll out matting which can be carried and installed manually in minutes.

Simplicity of use : Mobi-Mat® Tentfloor™ was designed with the military actors in mind by providing the matting in rolls for fast and easy installation without prior training and only hand tool, without specific accessory equipment

Durable : Made from a patented corrugated high-density polyester mesh material originally designed for vehicular use, Mobi-Mat® Tentfloor™ is puncture and tear resistant. As the material has been conceived in 1994 for vehicular use, the crossing by light mechanical snow and sand removal equipment such as snow blowers or “bobcats” is possible with limitation.

Resistant to : corrosion, rot, chemicals, petroleum fuels, UV and temperatures ranging from - 40°C up to + 80°C.

Permeable : Mobi-Mat® Tentfloor™ permeability prevents water from pooling on the surface while accommodating every type of terrain with flexibility without degrading the structure of the matting.

2.2. DETAILED DESCRIPTION

Table 1 - Technical characteristics:

RANGE OF PRODUCT	MOBI-MAT®
MOBI-MAT® TYPE	LX Light grade
WEIGHT*	0,7 kg/m ²
COMPOSITION	100 % Polyester
Recyclability of weaving	100 %

MECHANICAL PROPERTIES	Test Method: Lab-TME 2T (adapted from NF G 071-119 or NEQ ISO 5081)
Tensile strength (warp direction) / 4.20 m	24 tonnes minimum
Tensile strength (warp direction)	5,7 t/m minimum
Elongation at break (%)	21%
Compression	12 Mpa (N/mm ²)

CHEMICAL PROPERTIES	
Moisture regain 20°C – 65% HR	0.4%
Acid resistance	Good
Alkali resistance	Good
Solvent resistance	Good
POL (Petroleum Oils Lubricants) Hydrocarbons resistance : Kerosene type F34, F35, Military oil type F54, domestic oil type XF10	Good
Aviation synthetic fluid resistance (Ex. : Skydrol – HyJet IV A plus (Exxon))	Excellent at ambient temperature (no physical deterioration after 16 days of wetting, 100% mechanical characteristics)
UV resistance	Very good (10 years under middle east sun without deterioration)
Micro-organisms resistance	Excellent

THERMAL PROPERTIES	
Useable temperature	-40°C / + 80°C
Softening temperature	220°C
Melting temperature	260°C
Degradation temperature	300°C
Combustion behavior	Laid on the ground, the mat stops burning as soon as the flame is taken away

2.3. TEST AND CERTIFICATION STATEMENTS

The material has been designed with the following criteria. It can be :

- a) stored in outdoor storage facilities until needed;
- b) configured and loaded quickly for a specific mission;
- c) transported by sea, land or air including by C-130 aircraft;
- d) erected and connected rapidly by skilled soldiers, but ones who may be unfamiliar with the task;
- e) combined with other facilities to constitute a pre-planned camp;
- f) deployed on exercises for short periods each year and/or deployed on operations as required;
- g) operated 24 hours per day, 365 days per year, with minimum maintenance under harsh field conditions during operations for a period lasting up to two years;
- h) dismantled, repacked, stored, and re-used a minimum of five operational cycles with only minimum refurbishment;
- i) maintained by soldiers with basic skills during deployed exercises and operational periods and by skilled tradesmen when not deployed, in accordance with the contractor's recommended support programme;
- j) expected to perform reliable service without loss of function at any time during deployed exercises and operational periods;
- k) designed and supported in consideration of a defined maintenance programme that would provide 20 years of life service; and
- l) used to provide re-usable sidewalks that can provide clean and stable operating surfaces notwithstanding the supporting soil and weather conditions.

3. EXAMPLE OF USE

