

# AeroFreestyleMat®





# *Intro*

Freestyle snowboarding and freestyle skiing are now a well established reality which resorts cannot and must not ignore. Market laws rule and during the past few years all resorts are progressively putting more effort, time and money into building bigger and better snowparks in order to satisfy the needs and wishes of freestyle lovers.

Here at SMK snowboard hardware we believe that three determining factors must apply in the design, manufacture and management of snow park apparel. First: safety, one of the main concerns of resorts. Second: entertainment offered to snow park users of all levels; and last but not least, freestyle training and progression.

Taking these 3 basic factors into account, SMK snowboard hardware designs, manufactures and commercializes the Aero-Freestylemat®, the snow park equipment, destined to revolutionize safety, entertainment and freestyle training in snowparks all around the globe.

Welcome to the future.



# What is the Aero Freestyle Mat®?

Designed by and manufactured under SMK snowboard hardware's specifications, the AeroFreestylemat® will shortly become essential in snowparks of innovative resorts all over the world.

The AeroFreestylemat® is an enormous inflatable air mattress which is set up right behind a snow-ramp or kicker and is used to absorb the landing of any kind of freestyle air trick made by skiers and snowboarders of all levels in complete safety.

The AeroFreestylemat® has been conceived with 3 main factors in mind:

- Safety: It is well known that safety is one of every resort's main concerns and their main worry when implementing snowparks and freestyle facilities. The AeroFreestylemat® offers the possibility to perform new freestyle air tricks in a new and safe environment. This huge air mattress is specially made to absorb the landing of any kind of trick. This way, we give an incentive to all-level freestyle lovers to safely try out new and potentially dangerous tricks thus reducing accidents and injuries in snowparks.

- Entertainment: The AeroFreestylemat® is a new source of entertainment for all experienced and non-experienced snowboarders and skiers. It is fun to use since they will be able to perform all sorts of spins, inverted tricks, grabs and jumps of any kind: the AeroFreestylemat® will absorb the impact even if they land with their heads down.

- Training: For obvious reasons, the AeroFreestylemat® is an excellent freestyle training tool for all levels of riding. From now on, snowboarders, skiers and professionals trainers will have a safe environment to train, perform and teach new freestyle tricks.



# Technical Specifications

The AeroFreestylemat® is an enormous inflatable air mattress specially designed and manufactured to withstand the severe conditions under which it is going to be used. SMK snowboard hardware has taken two main parameters into consideration when engineering the AeroFreestylemat®: safety and resistance.

## Safety

The dimensions of both AeroFreestyleMat®'s models are impressive: **20 m (66 feet) long x 12 m (40 feet) wide** for the **Original model** (the biggest in the world) and **15 m (50 feet) long x 9 m (30 feet) wide** for the **Fun model**. This means that if instructions regarding the construction of the kicker are followed correctly it is virtually impossible for anyone to land outside the mattress no matter the trick or jump performed.

On the other hand, the AeroFreestylemat® utilizes a the patent pending **Double-Chamber Technology®**. This means the AeroFreestylemat® is really made up of two air mattresses each one of them having a different thickness, supporting different pressures and airflow and using independent inflating motors. There is an exterior chamber which can reach up to a height of 2,5 m (6 feet). This part of the mattress receives the first impact and progressively becomes flattened, absorbing and surrounding the skier or snowboarder. But there is a second bottom inner chamber around 50 cm (12 inches) high supporting a continuous airflow and higher pressure which ultimately absorbs the last part of the impact if the user gets there. Moreover, overall pressure of the AeroFreestyleMat® can be adjusted accurately opening or closing the several easily accesible built-in air vents.

## Resistance

SMK hardware has obviously taken into account the rough environment in which the AeroFreestylemat® is going to be used and the tough conditions it is going to face.

Thus, first of all, the AeroFreestylemat® is made out of several layers of a special high-quality anti-UVA variable-density PVC-polyester fabric which is chemically treated to withstand temperatures from -30°C (-22°F) and up to 70°C (158°F) .

Also, SMK hardware has sought *bulletproof resistance* against the sharp edges of snowboards and skis and therefore equipped the AeroFreestylemat® with the **Triple Security Layer Technology®** which simply outperforms the competition: up to **3 removable layers** of an exceptionally resistant material surround the main air chamber. First of all, the **Security Layer** wraps the whole mattress with a second layer of material. Then, you will find a **Landing Area Security Layer** below the final **Landing Area Layer**. All of these layers are removable and fully customizable. So you can be sure that the AeroFreestyleMat is made to last.

## Customizability

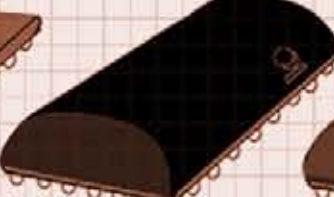
We manufacture the AeroFreestyleMat® on demand so it is highly customizable. Customization is easy: you can choose colours and prints any size you like to suit your corporate image or please your sponsors. Also, since all security layers are easily removable, you can purchase new ones to change the AeroFreestyleMat®'s looks at your discretion. For example, you can purchase a new Landing Area Security Layer 2 to suit your new sponsors' needs.

**CONSTRUCTION**


Bottom inner chamber




Top air chamber




Security layer (removable)




Landing area security layer




Landing area layer (removable)




Customization




Customization & Design




Independent Inflating motors




Corporate image customization




Landing Area Layer






Built-in adjustable round air vent



Triple Layer Security Technology

Final check at SMK hardware's factory



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# Technical data

## DIMENSIONS

	ORIGINAL MODEL	FUN MODEL
Lenght	20 m (66 feet)	15 m (50 feet)
Width	12 m (40 feet)	9 m (30 feet)
Height	Up to 3 m (7 feet)	Up to 2.5 m (6 feet)
Weight	1.000 kg/ 2200 lbs	600 kg/ 1350 lbs
Packed-up dimensions	6.400 m³	2.500 m³

## MATERIAL

Composition	- Ultra resistant 0,9 mm Tarpaulin PVC-polyester fabrics.
Finish	- Chemical treatment against extreme temperatures -30°C (-22°F) to 70°C (158°F) - Anti -UVA treatment

## STRUCTURE

Layers:	<b>Triple Security Layer Technology:</b> - Top air chamber (whole mattress) - Security Layer (wraps whole mattress, removable, industrial velcro strenght. - Security Landin Area Layer - Landing Area Layer
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## AIR

Technology:	-Double-chamber technology: external and internal air mattresses. - Fully adjustable built-in air vents
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Motors:	- 2 independent inflating motors (one for each chamber). - 2 electric powered motors provided (fuel powered also available).
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## FIXING

Technology:	- Antiglide base strips. - Lateral fixing rings and strings.
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## WARRANTY

2 year limited warranty

# Installation and use

The AeroFreestylemat® must be placed on flat ground after a short and steep run which ends up in a kicker or ramp. Then, it can be easily installed by 4/6 people.

Just as shown below, the AeroFreestyleMat® is rolled and stretched open. Once the air vents are adjusted for desired pressure and the mattress is fixed onto the snow/ground the motors are turned on for inflation. when the AeroFreestyleMat® is fully inflated, a test run must be made to check pressure and set a starting point depending on speed which itself depends on snow conditions. Users can then start to jump.

Also, It is very important to maintain continuous supervision while the AeroFreestylemat® in use in order to avoid accidents and misuse of the AeroFreestylemat®. It is recommended that two people are responsible for its supervision.



# About us

AeroFreestylemat® is a registered trade mark of SMK hardware ([www.smkhardware.com](http://www.smkhardware.com)).

SMK hardware designs, manufactures and commercializes snow park apparel and it is a division of SMK snowboard, a multidivisional snowboard company, which began and it is based in Spain with the objective to offer products and advanced services related to the world of snowboarding.

Since the beginning, SMK snowboard and all its divisions have been committed to innovation, differentiation and the highest quality interaction with clients. These are the essential factors that SMK snowboard takes into account in order to develop high quality products and services to its clientele.

Our motto “snowboarding is for everyone”, encourages the popularization of snowboarding by suggesting that people originating from all kinds of conditions and social stratum and ages should be welcomed to the world of snowboarding!

Visit our global website to learn more: [www.smksnowboard.com](http://www.smksnowboard.com)

Other divisions of SMK snowboard®:

SMK camps ([www.smk-camps.com](http://www.smk-camps.com))

SMK media ([www.smk-media.com](http://www.smk-media.com))

SMK sessions ([www.smksessions.com](http://www.smksessions.com))



SMK  
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