

# ProFence Speedway





## ProFence - a Swedish quality product

Intensive development in close cooperation with Swedish Speedway has resulted in Protan's air fence system, ProFence. ProFence is a Swedish-produced quality product which comprises a complete air fence system tailor-made for the Speedway market. ProFence was approved in 2009 by the Fédération Internationale de Motocyclisme (FIM) for protective crash barriers for Speedway.

The ProFence air fence is a result of decades of expertise within membrane construction combined with long experience of air-regulation and ventilation technology for mines and tunnels.

The product is manufactured in Protan Lesjöfors, near the heart of Swedish Speedway. The quality of Protan ProFence is based on well-proven production techniques and a careful material selection of PVC membranes that is able to resist wear, fire and other physical effects.

Protan's ProFence is available in two formats:

1. *ProFence Speedway* - a product range with air fences and fans for full-sized speedway tracks.
2. *ProFence Junior Speedway*- a product range for junior speedway on the inner track of full-size speedway tracks.

Protan's ProFence Speedway product range will here be presented in the following categories:

1. The product - ProFence
2. The product - ProFence Junior air fence
3. Air supply & rebound energy performance
4. Installation
5. Care & maintenance
6. Repair

For further details, please contact Protan:

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# *ProFence Speedway*

## **1. Product construction**

The ProFence air fence is produced in reinforced sections of 3 or 6 metres and is available in a range of colours. The sections are connected by Velcro on the front and snap-hook couplings on the top and bottom rear of the section.

Both forms of connection originate from our mining applications, designed for use in dirty environments and to facilitate fast installation. Each section is produced with two flaps on the back edge - one at the top of each section and one at the bottom - with brass eyelets set 50 cm apart. The two connection flaps are used to attach ProFence directly to the existing barrier.

The kickboard is produced in an extra thick PVC-membrane which is shaped and covered with gravel in order to give a secure mounting to ground.



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# *ProFence Junior air fence*

## **2. Product construction - Junior air fence**

Based on Protan's senior ProFence air fence, the development process in cooperation with Swedish Speedway has also resulted in an air fence for junior speedway - ProFence Junior air fence. Also this product is produced in Protan Lesjöfors and gives, with simple accessories, a complete air fence system ideal for junior speedway.

The ProFence Junior air fence is produced in reinforced sections of 5 metres and is available in a range of colours. The sections are easy to connect to each other with a overlapping Velcro-system. The whole air fence system is secured to ground by using pre-fabricated continuous suspension lines on the bottom of each section directly attached to ground. The kickboard is made out of a hard-wearing and mouldable membrane to prevent riders sliding under the fence.

The fence is filled with air through a valve in the back of each section – a valve that is designed to cope with the impacts. Rebound energy is then regulated by the air volume in the sections.

ProFence Junior air fence has the same specifications for care, maintenance and repair as the senior ProFence - please see section 5 and 6.



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# *ProFence Speedway*

## **3. Air supply & rebound energy performance**

The ProFence senior air fence is supplied with air by one or two fans per curve, depending on the size of the track and number of sections in the system. Air is fed in at the back of each section and passes through to the adjoining sections. Transfer of air from section to next sections is led via PVC-pipes integrated into the sections and connected to each other using reinforced zips.

In the event of a collision, each section's ability to absorb rebound energy, will depend highly on the volume of air being spread from one section throughout the interconnected sections of the curve. In addition the absorption of rebound energy is balanced by using adjustable pressure regulating channels in each section.



## **4. Installation**

ProFence air fence is easy to install on the existing safety fence. Each section is fastened by using the “connection flaps” on the top and bottom rear of the section and securing these to existing fence with plastic or metal straps. The “wedge sections” at the entrance to each curve are secured in the same way.

The actual fans are connected to the sections through the existing safety fence. Each curve can then be pressure tested and adjusted using pressure measurements and the pressure regulating channels referred to in section 3. The rebound energy can thereby be set according to the FIM standard throughout the whole system..

The kickboard is secured to the track by preparing the track in the usual way.



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## *ProFence Speedway*

### **5. Care and maintenance**

An air fence is a considerable investment for most speedway clubs. In order to maximise the permanence of the product proper care and maintenance is important.

The sections are preferably cleaned using a high pressure washer and are left to air-dry properly before being rolled together for winter storage. Storage on pallets makes handling and storage easier.

Protan has long experience also within care of membrane products, and offers consultation for all its product range.

### **6. Repair**

If a section is damaged, there are a wide range of different repair methods to use. ProFence consists of a thick membrane which allows for hot air welding and this repair method is highly recommended in order to attain a permanent result. Hot air welding requires training, which Protan can provide.

Simpler repair methods also available include PVC glue or self-adhesive PVC membrane on a roll.



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