



PROTAN *ProFence*



Skating

ProFence Skating



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ProFence - a Scandinavian quality product

Intensive development in close cooperation with high speed sports has resulted in Protan's air filled protection system, ProFence. The one part of the ProFence portfolio that is specially design for skating arenas is herein presented as ProFence Skating.

ProFence skating is a Scandinavian-produced quality product which comprises a complete air filled protection system tailor-made for the skating market including a centralized or decentralized fan system, fastening system to ground, connectable protection sections as well as a full maintenance & repair system.

The ProFence products delivers from Protan's long expertise of PVC-membrane production, membrane assembling combined with long experience of air-regulation and ventilation technology for mines and tunnels.

The ProFence sections are manufactured in Protan 780 membrane quality, a strong PVC membrane that resists wear, fire and other physical effects. The assembling techniques are entirely based on high-frequency welding, and thereby without any sewed joints.

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

1. Product concept
2. Air supply
3. Installation
4. Care & maintenance
5. Repair

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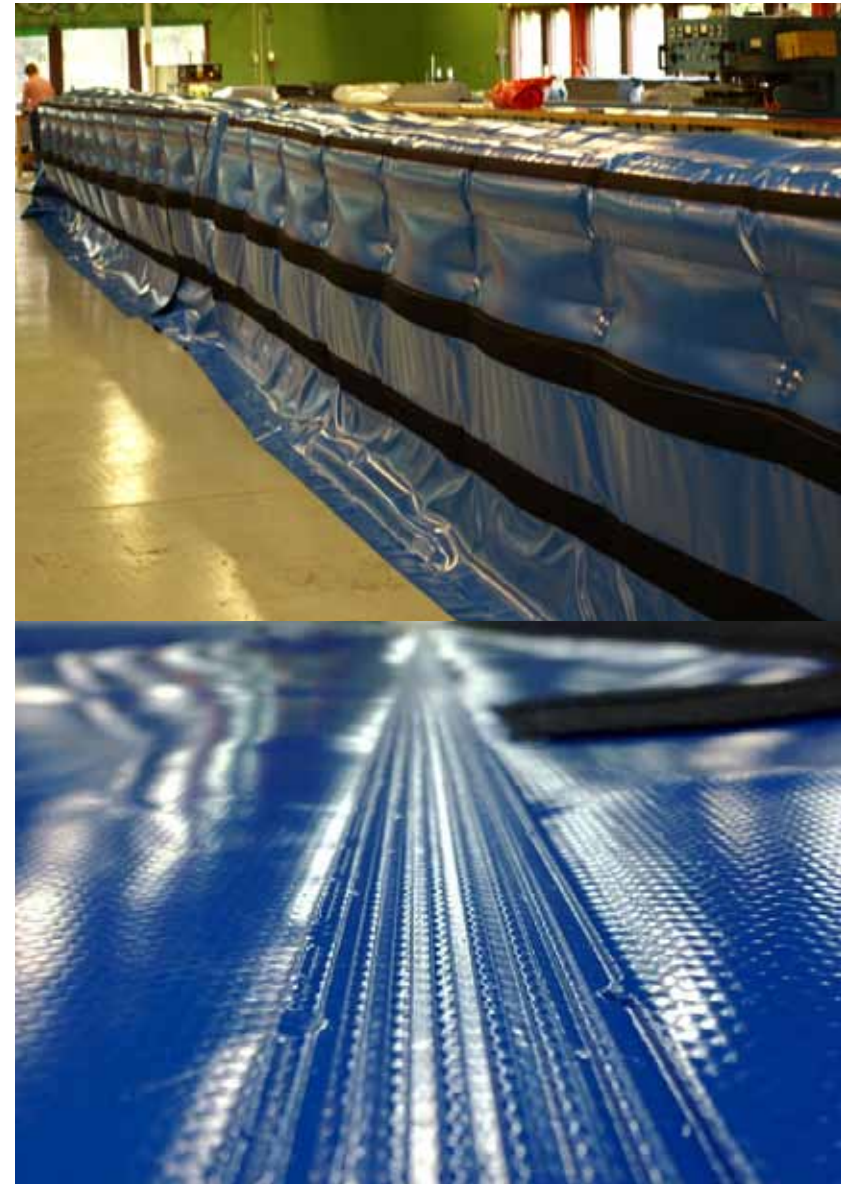
1. Product concept

The ProFence Skating sections is produced in sections of 10 metres. Each section is purely manufactured in the PVC membrane, Protan 780 - selected because of its high tear and tensile strength - which originates from use in industrial halls and military hangars.

In order to ensure long life expectancy for the ProFence sections, all sewing and sewed joints are consciously avoided. Threads have a tendency to decompose in the moisture and all joints are therefore high frequency welded. An assembling technique where the joints get as strong as the membrane itself.

The connection system between the sections are based on zip and velcro couplers. Both forms of connection originate from our mining applications, designed for use in dirty environments and to facilitate fast installation.

The inner side of each section is also protected with an extra layer of Kevlar-textile.



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2. Air supply

The ProFence sections are supplied with air from either a decentralized fan system - by one or two fans per curve directly connected to the sections - or by a centralized fan system.

In the centralized fan system air is fed from one “fan house” through air pipes in ground up and into through the bottom of two or tre sections per curve. The air flow is then controlled from a control panel in the fan house.

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. The right air pressure is therefore critical and the pressure can be measure from the control channel on the back of each section.



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3. Installation

The Skating section are easy to install to ground. A fastening wire is build into the bottom of the section. The wholes for snap-hooks is taken in accordance with the connection-hooks in the concrete base. The section is then fixed to ground by using snap-hooks through the fastening wire.

The sections are then connected to each other by three different couplers. First the air system between the sections are connected by a reinforced zip. Secondly the sections are connected with snap-hooks on the top and bottom of the sections. Finally the sections are connected through a velcro overlap.



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4. Care and maintenance

A protection system fence is a considerable investment for most sport clubs. In order to maximise the permanence and life expectancy of the product, proper care and maintenance is important.

Before long time storing, the sections are preferably cleaned using a high pressure washer and are left to air-dry properly before being rolled together. Storage on pallets makes handling and storage easier. Protan has long experience also within care of membrane products, and offers consultation for all ProFence product range.



5. 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 from its Head Office in Drammen.

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



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