

Protan ProFence

- Protecting Sport Values



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Qualifications Protan

- Insights and history of:
 - PVC membranes
 - Assembling and welding.
 - Manufacturing different fillings in products
 - Air regulation and ventilation in PVC-ducts
- All required production facilities inhouse
- International sales channels
- Strong industrial brand of Safety and protection

Assembling Technologies

Basics

1. Sewing
2. Hot nozzle welding
3. Hot Air welding
4. High Frequency welding



- (+) Fast production
- (+) Non-complex operation
- (+) Transparent quality control
- (-) Needs to be fed into machine
- (-) Not air /water tight
- (-) Shorter life expectancy (thread)

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Assembling Technologies

Basics

1. Sewing
2. Hot nozzle welding
3. Hot Air welding
4. High Frequency welding



- (+) Fast production
- (+) Suitable for "delicate details"
- (+) Ok in terms of air /water tight if produced correctly
- (-)Quality highly depends on operator's knowledge and experience – 85/15-
- (-)Quality controll requires "surgery"

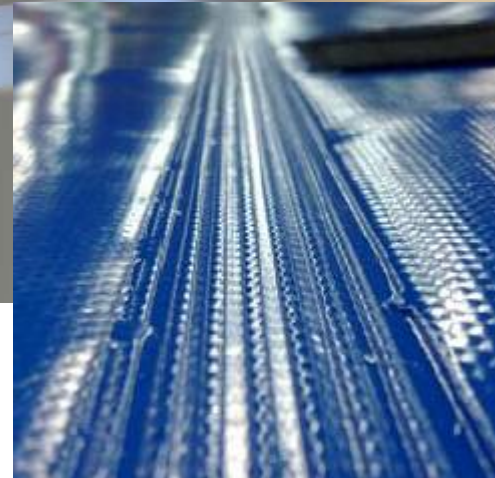
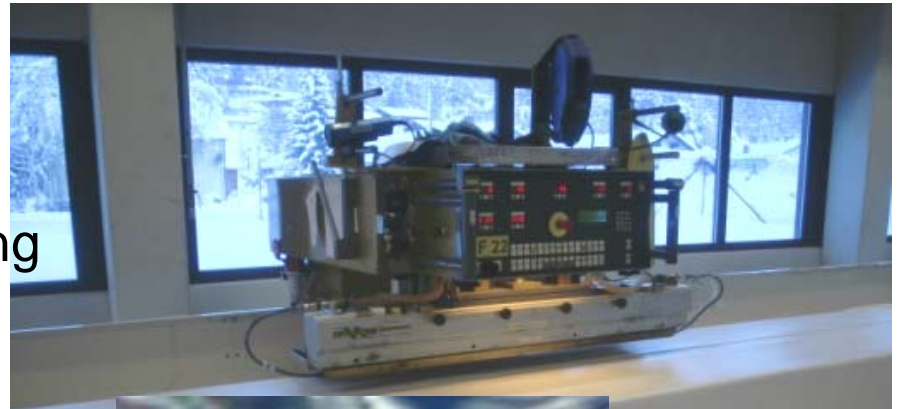
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Assembling Technologies

Basics

1. Sewing
2. Hot nozzle welding
3. Hot Air welding
4. High Frequency welding

- (+) Production cycle automatized & planable.
- (+) "Fingerspitz-gefuhle" build into machine – 15/85
- (+) Weld as strong as membrane itself
- (+) Air/Water tight
- (-) Quality controll requires "surgery"
- (-) Need to access both sides of membrane to weld
- (-) Only availabe as stationary machines



Assembling Technologies

Comparison

	Sustainable Process Quality (1-5)	Strength (1-5)	Air/water tight (1-5)
1. Sewing	4	2	1
2. Hot nozzle welding	3	5	4
3. Hot air welding	3	4	3
4. High frequency welding	5	5	5

ProFence

The Products

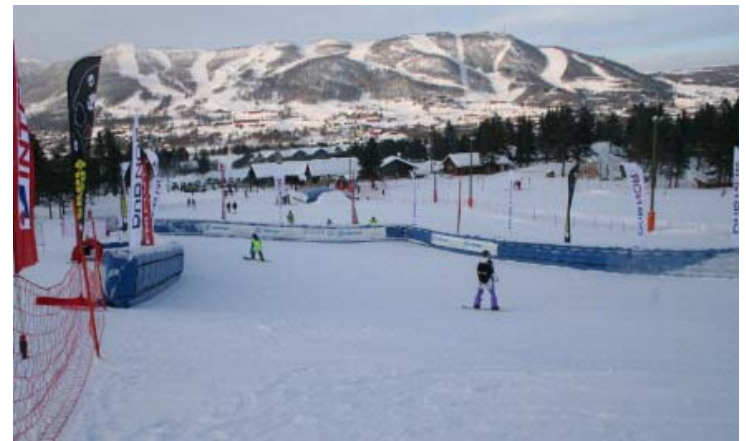
Speedway



Skating



Alpine



ProFence Speedway

The Product

- Air Fence available in 3 and 6 m section.
- Protan 780 quality is the "main ingredients"
- All modules High Frequency welded
- Advertising displayed with Velcro



ProFence Speedway

Installation

- Installed onto existing fence using continuous suspension line on rear - top and bottom
- Air supplied by 1 or 2 fans per curve.
- Section connected to each other in serial with pvc-duct + zip connection.



ProFence Speedway

Installation

- Snap-hooks as well as Velcro overlap to secure sections to each other.
- Kickboard addition security to keep section to ground



ProFence Speedway

Rebound energy

- FIM requirements: Less than 30% rebound, less than 30 G in break acceleration
- Turned into Protan-practice: 300 – 500 Pa



ProFence Speedway

Installation



TAN

ProFence

Maintenance & Repair

- Regular cleaning
- Repair techniques: Hot-air welding
- Storage on pallets



ProFence Ice-skating

The product

- A modification of Speedway
 - Kevlar textile protection
 - All modules in 780 quality
 - Different fastening system – only in ground



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ProFence Ice-skating

The system

Compared to Profence Speedway

- Same principles for installation
- Same repair system
- Advertising displayed with Velcro
- Different air controll system
- Centralized fan system not decentralized fans

ProFence Ice-skating

Fastening system



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ProFence Ice-skating

Couplers sections



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ProFence Ice-skating

Fan system



ProFence Ice-skating

Reference objects



Second reference in progress, Frogner Stadion, Oslo

ProFence Alpine



ProFence Alpine

ProBag



ProFence Paddock



Collapsible padding



ProFence Alpine

ProBag



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Paddock



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Paddock



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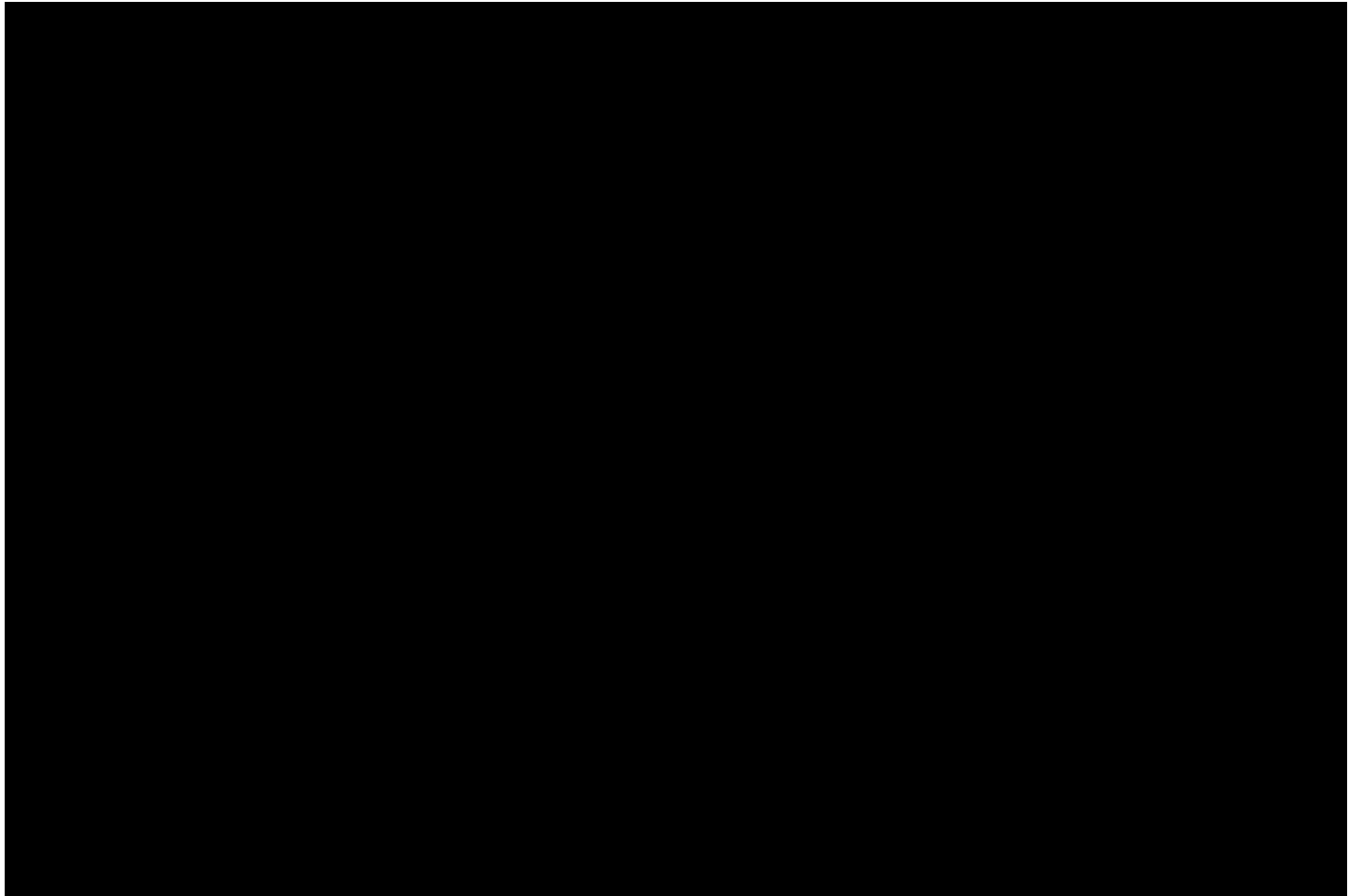


ProFence Alpine

Collapsible padding



ProFence Alpine



ProFence

Maintenance & Repair

- Regular cleaning
- Repair techniques: Hot-air welding
- Storage on pallets



www.ProFence.no

Contacts:

Mattias Markusson

Mattias.markusson@protan.no

+47 4899 2668

