

Tracksafe Polyfoam Barrier System

T.P.B.S

Place it-Race it Speedway Barrier



FIM Homologated and Recommended Product 2012

Champion Products Limited
95d Attleborough Road
Nuneaton
CV11 4JQ
United Kingdom

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1. Introduction

The reason for this document is to understand the construction and the requirements that the manufacturer of the barriers has made.

The buyer of the system has to sign the documents to indicate that he/she understands the requirements for the safe use and storage of the system.

2. Dimensions

Standard barrier / Gate barrier	Lead In-Out Wedge
Height 1.2m Front	Height 1.20m Front
Height 1.3m Rear	Height 1.30m Rear
Length 3.6m	Length 1.50m
Width 70cm	Width 70cm-0cm
Weight 55kg	Weight 30kg

3. Material Specification

Base Fabric	100% PES 1100 dtex	DIN EN ISO 2060
Total Weight	610 g/m ²	DIN EN ISO 2286-2 BS 3424 Method 5A
Composition Fabric	180 g/m ²	DIN EN ISO 2286-2 BS3424 Method 5B
Composition Coating	430 g/m ² PVC	
Surface	Cape Embossing	Glossy
Breaking Strength Warp	2100 N/5cm	DIN 53 354 BS 3424 Method 6A
Breaking Strength Weft	2000 N/5cm	DIN 53 354 BS3424 Method 6A
Tear Strength Warp	380 N	DIN 53 363 BS3424 Method 7B
Tear Strength Weft	330 N	DIN 53 363 BS3424 Method 7B
Adhesion	90 N/5cm	DIN 53 357 BS3424 Method 9B
Temperature Resistance	-30C/+70C	DIN EN 1876-2 BS3424 Method 10

Light Fastness (except white)	7-8	DIN EN ISO 877 BS3424 Method 15
Flammability	B1, B2, M1, M2, CL2	DIN 75200 NFPA-701 CSFM Section 13115

4. Seat Belt Webbing

Width 50mm
Warp ends 148
Warp yarns 1100dtex Polypropylene
Picks per in 19
Locking threads 3
Woven construction 2/2 Twill 1 Turn
Breaking Strain (normal) 850kg

5. "D" Ring (plated)

50mm 6mm steel

6. Velcro

Hook and loop fastener
Width hook 100mm
Loop 100mm
Textile strength Hook (N/cm overall width) 380.3
Loop (N/cm overall width) 340.6

7. Rubber skirting

3mm Thick 30cm high, 3.8m long Insertion Rubber Belting with fabric insert to prevent tearing. The rubber skirting is secured to the barrier by means of double edged Velcro 50mm wide.

To fix the rubber skirting place the barrier on its back and secure the rubber skirt to the Velcro.

8. Foam

Flexible Polyurethane Foam

Specific Gravity	15-70 kg/m ³
Flash Ignition Point	Between 315° C to 370° C
Thermal Energy	28 000 KJ/kg

9. Polystyrene

Low- medium- high density polyethylene beads and blends thereof.

Tracksafe Polyfoam Barrier System

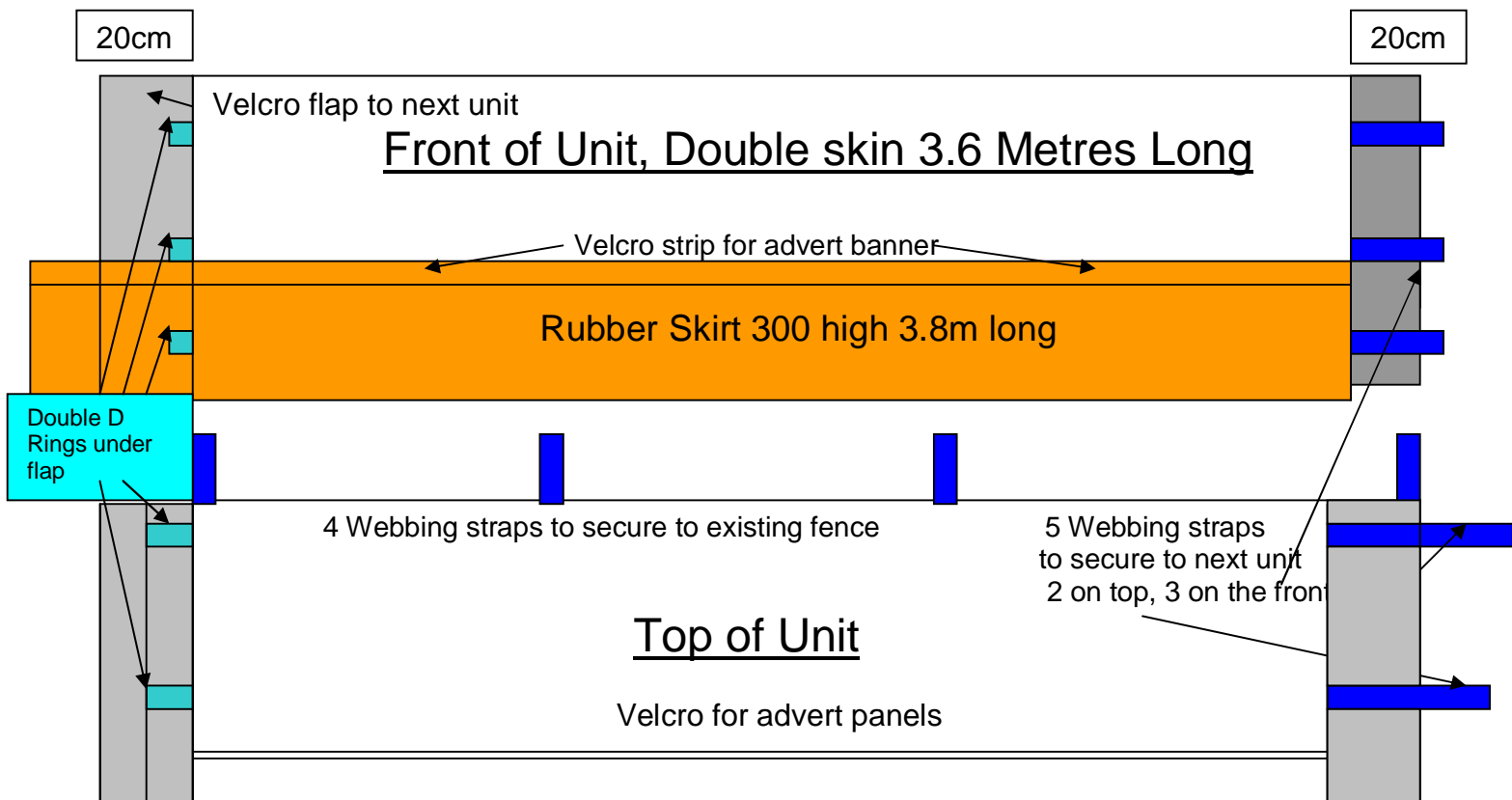
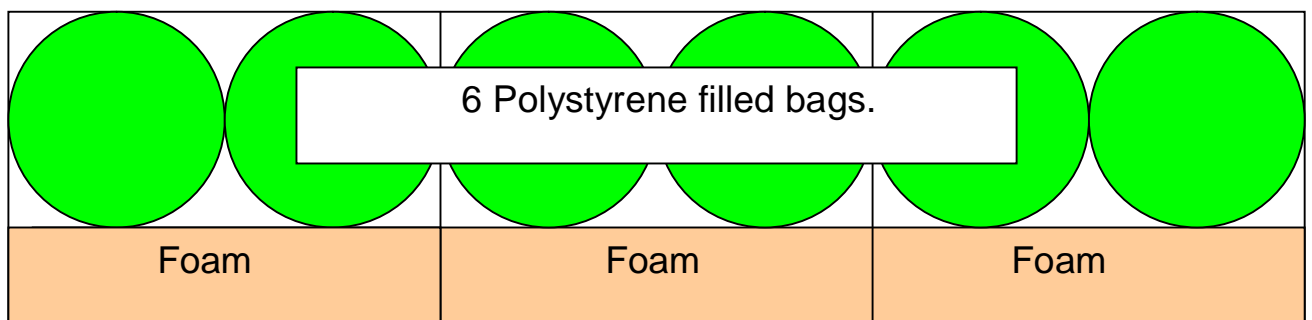
Place it --- --- Race it

10. Design of Polyfoam Barrier

Length: 3.6m Height: Front 1.2m - Back 1.3m Width: 0.7m

6 Bags of Polystyrene filled bags per unit.

3 Blocks of foam 1.2m square 10cm thick per unit.



Place it --- --- Race it

11. Construction of Polyfoam Barrier

Tracksafe Polyfoam Barrier System offers a unique speedway barrier, with very little maintenance once it's installed your ready to race.

As you can see from the picture below it has a foam section at the front which is sealed with a Velcro flap and polystyrene bags at the back, the polystyrene is fire proof and water proof and supplied by Forest Safety Products Ltd (www.forestgroupuk.co.uk), who are the leading supplier of safe landing system in the UK.

Encased in a 3.6m long unit, the front face is doubled skinned for extra protection and a rubber belting strip 30cm high along the bottom. A membrane divides the unit into six sections, 3 at the front for the 1.2m square x10cm wide foam and 3 sections at the rear for the polystyrene bags, 2 bags in each section the membranes are double stitched at the front, back and at the bottom. Two zips along the side and back seal the unit.



Place it --- --- Race it

12. Securing the Barriers together

TPBS is easily fixed together with the 3 webbing straps through Double 'D' rings at the front and 2 webbing straps through Double 'D' rings at the top, both covered with 20cm Velcro flap. Any barrier can be used as a gate barrier, once closed simply connect the 5 Double 'D' straps and close the Velcro flaps.



2 Double 'D' fixings at the top.



Velcro flap seals the unit at the top.

Place it ---Race it



3 Double 'D' Fixings on the front.



The kickrubber overlaps by 20cm.

Place it ---Race it

13. Securing the Barriers to the existing fence



The 3.6 Metre unit is secured to the existing fence by 4 webbing straps. The back of the units are higher than the front to enable water to drain off the top of the unit.



Securing the Barrier at the bottom with nylon rope

Place it ---Race it

14. Advertising Panels



Secure the bottom of the advertising banner to Velcro.



Secure the top of the advertising banner to the top Velcro. There is a cover to keep the Velcro clean if no banner is fitted.

Place it --- Race it

15. Winter Storage

During long periods when not in use it is important that the Barriers are kept clean and dry. It is recommended that the units are covered to prevent damage from vermin and/or the weather elements.

16. Pre-Season and Pre-Meeting Inspections

Designated personnel should inspect the units for any damage and that all the clips and Velcro are secure.

17. During the Meeting – After the Meeting

If there has been an accident where a rider and/or machinery has had contact with the barrier, it is important that the barrier is checked and the section be replaced if damage is visible.

After the meeting it is recommended that the unit is removed for further inspection for any internal and/or external damage.

18. Cleaning of the Barriers

In between speedway meetings it is important that the barrier is cleaned using hot water (not boiling). Do not use detergents as this may damage the material/stitching. After cleaning it is recommended that a cover be used to protect the Barriers from the elements. Also the cover can be used during practice sessions thus keeping the barrier clean.

Covers are 15m long x 2m wide.

19. Personnel Training

It is recommended that 4 people fully understand how the Barrier is assembled and how to replace any Barrier quickly and efficiently during a speedway meeting. Please ensure that these personnel have read and understood this manual.

Acceptance of T.P.B.S. Speedway Barrier System

I confirm that I have received the following:-

- Standard Barriers 3.6m long
- Lead In Wedges
- Lead Out Wedges
- Practice Cover 15m lengths
- Advertising Panels

Signed (Purchaser):

Print Name: **Date:**

Signed (T.P.B.S.):

Print Name: **Date:**

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