

TENNIS

INSTALLATION & MAINTENANCE GUIDE



Pro Flight - by Bevan - Mike Mahoney - NZ



INSTALLATION PROCEDURE

Base Inspection

Generally as synthetic grass can be used in a wide variety of applications, the installation techniques will vary. However, in all cases it is essential to ensure the sub base on which the grass is to be laid is of a high standard. The surface will reflect any deficiencies in the sub base. Bumps and lumps on the sub base will be repeated in the surface. Similarly, “bird baths” in the sub base will allow water to pond on the surface.

Hard surfaces such as concrete or asphalt with cracks and “bird baths” will need to be treated with an appropriate filling compound.

Joining Tape & Adhesive

When installing the surface, seam joins are achieved by the use of special polypropylene woven tape and all-weather adhesives.

The adhesive is applied to poly tape as per instructions on adhesive drum and when the adhesive take up time is reached the turf is applied to tape.

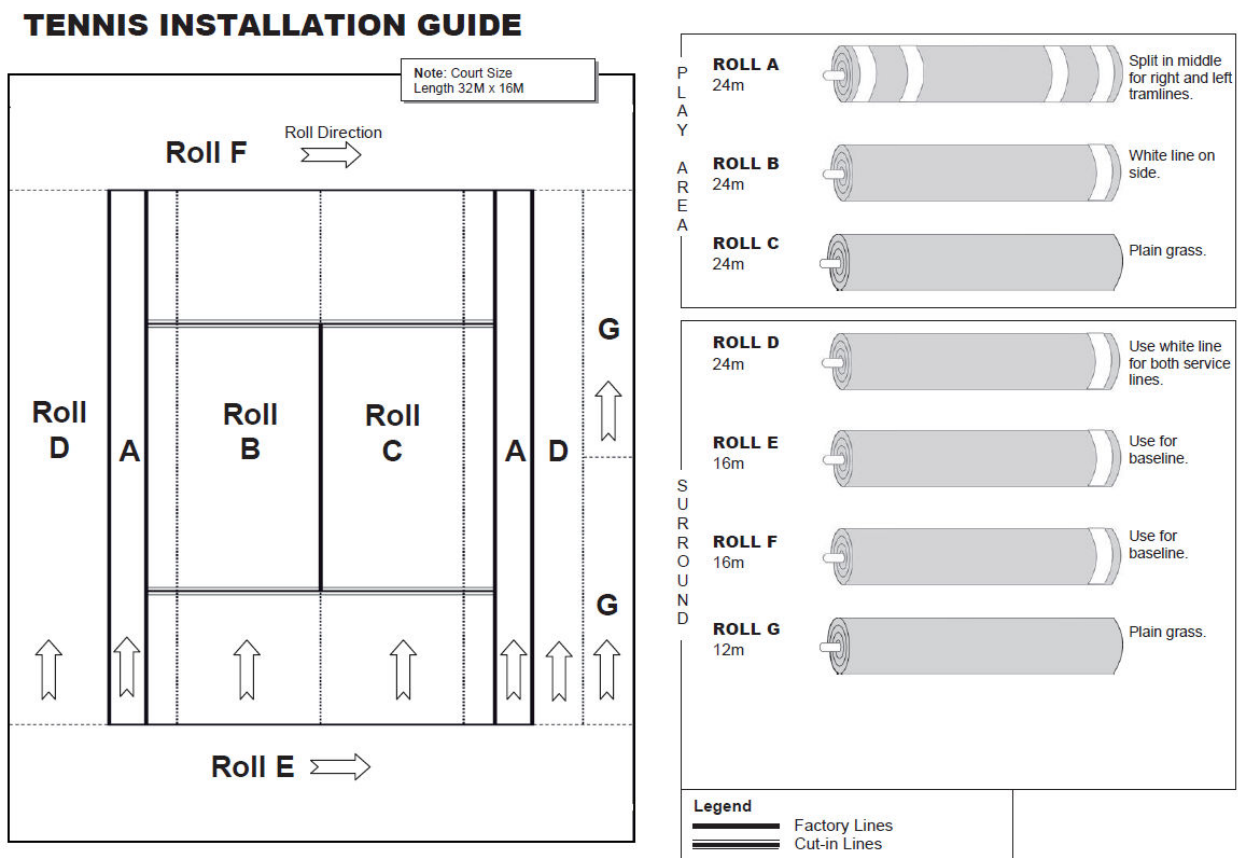
Any variations to the following installation instructions may cause on-site problems and/or restrict the issue of warranties.

Step by step

1. Dye batches can vary. Unless we advise to the contrary, each roll of the grass when supplied as part of a specific order will be of a compatible dye batch. A contractor/reseller drawing from his own stocks should ensure **before commencing installation** that there is no colour variation between rolls.
2. As soon as possible after delivery, packing bands around rolls should be released.
3. Rolls are to be rolled out in their approximate position and allowed 30 minutes to relax before cutting (as per layout diagram below).
4. Carpet and tape should not be adhered to base. (Tensioning by stop nails is an advantage, providing nails are removed from final court).
5. Tape will be spread with adhesive to a minimum width of 40cm.
6. Seam joins should be slightly loose to avoid peaking (undercut rather than overcut by no more than the stitch row gap).
7. All seaming joins should be “hand teased” together, then rolled with a hand roller.
8. Only joining tape supplied by FieldTurf® will be used.
9. Edges will not be glued down unless instructed otherwise, or at the junction of the two courts.

10. Only FieldTurf® adhesive will be used.
11. Adhesive will be spread in strict accordance with the manufacturer's instructions as printed on the drum labels – the spread rates and trowel sizes must be adhered to:
Trowel size: 3.2mm x 3.2mm x 3.2mm V notch
Coverage: 3-4m²
12. Courts are to be sanded as they are being laid, in the following manner:
 1. Roll out carpet piece and align to chalk line.
 2. Allow to relax.
 3. Commence sanding from centre
 4. Continue to sand out to 300mm-450mm from all edges.
 5. Cut and glue join.
 6. Sand joint immediately to avoid any seam peaking, brushing along the grain not across
 7. On completion, sand will be topped up and levelled out properly.
13. All lines are tufted in with the exception of the service line which should be laid (cut in) last. Lines for service line from extra base and centre lines.
14. On completion and before the final sand, all joins should be checked.
15. NO JOINS SHOULD BE VISIBLE by either a change in pile or too big a cut.

Installation diagram



Sand Levels

The FieldTurf® tennis products are designed to allow players to play on polypropylene fibre tips, NOT SAND. It is imperative that the final settled level is below the top level of the pile height – the final appearance should be of green polypropylene, not sand.

The surface requires a settling in period during which the sand should compact below the top of the yarn blade and should be maintained at that level for the life of the court.

How far below:

Far enough to allow the tips of the polypropylene to flower and touch each other after fibrillation has been completed (approx.1-2mm).

To ensure the sand settles to an even height and distribution, brush weekly with a stiff bristled broom or preferably we recommend the use of one of the specially manufactured court sweepers.

Sand Type

Finer sand should be used and the sieve gradings below should be searched for and found.

Slight variation is acceptable; however, too far either way will produce:

Grain too big – court will be slippery

Grain too small – court will pack down too hard

Mm	Sieve Analysis Pass %	
	Min	Max
2.36	-	-
1.18	-	-
0.850	-	100
0.600	100	99
0.425	95	91
0.300	63	52
0.212	18	11
0.150	1	0
0.106	0	-

If there is any doubt about the sand to be used, a small sample should be submitted to FieldTurf® for testing prior to installation.

MAINTENANCE PROCEDURE

Laying to Playing

Now that the construction of your new surface has been completed, for the life of the surface you will have one over-riding goal – to have your court looking and playing at its best.

A new sand filled surface requires a settling in period during which the sand compacts below the top of the yarn blade and should be maintained at that level for the life of the court.

The surface is a short pile, dense, fine sand filled system designed for optimum performance tennis play. It provides true ball bounce, good foot traction, and low glare. To ensure and enhance this performance level, regular grooming is required.

Aim of Grooming

The aim of grooming is to keep the synthetic fibre ‘blades’ free and open. This will enhance performance and improve drainage through the system. Any displaced sand should be replaced with new clean sand.

The Crowe sweeper or mechanical brooms are helpful tools in the heavier use areas. A lowering of the brush into the fibres will result in a well-groomed finish. This equipment is available through your surface supplier. (Dragging the broom or sweeper in opposite, alternate and parallel directions will give the appearance of mowing lines).

Baseline and tennis coach’s pivot areas especially need regular attention and an annual mechanical grooming by maintenance professionals on these areas is necessary.

PREVENTION IS BETTER THAN CURE

Foreign matter

Trees are the most common contaminant culprits on tennis courts. Leaves, pine needles, nuts, etc can cause problems, either by blocking your drainage system or forming an algae sustaining nutrient.

There are three methods of removing these items:

- 1. Leaf rake and shovel** – It is hard work and takes time to clean your court but it is an effective cleaning method.
- 2. A leaf collecting device, such as the Aussie Clean Sweep** – You will probably have to use your leaf rake in the corners and along some non smooth edges but the whole operation will take 5 to 10 minutes at most and is by far the simplest method.
- 3. Mechanical Blowers** – Mechanical blowers will blow all of the leaves to one side of the court making it necessary to sweep along one side only with a leaf rake. However, if the blower is used too closely to the surface it may blow sand out.

Clean your court at least weekly and always prior to play as trodden in or broken up

leaves/needles are difficult to get out later.

Water Seepage

Ensure that retaining walls or embankments have their own drainage and do not allow water to either seep or run onto the surface.

Players

Clean your shoes before entry onto the court. No food or drink, (with the exception of water) should be allowed on the court area.

Burns

Burnt areas are unsightly and you may wish to remove them. For superficial burns, carefully clip the pile just below the blackened or melted tips. For large deep burns you may need to replace the area. If so contact either our service department or your contractor.

Algae/Moss

If you follow all of the foregoing recommendations, you will dramatically minimise the chances of algae forming. However, quarterly use of anti algae remedies is a must. Algae growth can create slippery conditions if left unattended. Applying an anti algae remedy will help prevent this from occurring.

As the run off from most surfaces ends up in the stormwater system you should check with your local council or water board about the use of chemicals on your surface.

If the court is heavy with algae growth a professional maintenance service is recommended. Contact your surface supplier/manufacturers if you need advice on maintenance or professional service.

Lack of maintenance could contravene your surface warranty.

Should you have any queries that are not covered herein, please contact us for further information.

LOG BOOK

Refer to the FieldTurf Handbook for the Care and Maintenance of Synthetic Turf Pitches for information on how to properly maintain your tennis courts and use in conjunction with this log book.

INSTALLATION DETAILS	
Project Name and Address:	
Installation Contractor:	
Product:	
Job Number and Roll Numbers:	

EQUIPMENT REGISTER	
Description	Serial Number

SIGNAGE INSTALLED

TRAINING RECORD				
Name	Procedure	Start	Completed	Signature

PREFERRED SERVICE PROVIDERS	
Company Name:	
Services Provided:	
Contact Name:	
Phone/Mobile:	

PREFERRED SERVICE PROVIDERS	
Company Name:	
Services Provided:	
Contact Name:	
Phone/Mobile:	

PREFERRED SERVICE PROVIDERS	
Company Name:	
Services Provided:	
Contact Name:	
Phone/Mobile:	

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Services Provided:	
Contact Name:	
Phone/Mobile:	

SHIFT SAFETY CHECK/REPORT

Facility Manager..... Week Ending...../...../.....

Groundskeeper.....

<input checked="" type="checkbox"/> OK <input checked="" type="checkbox"/> FAULT (fill in fault report)	MON	TUE	WED	THU	FRI	SAT	SUN
Inspection of security fence/gate							
Posting of positive/prohibited actions							
Inspection of fixtures and fittings							
Check for algae or moss							
Check for seam separation/rips/tears							
Collection of foreign material i.e. litter, debris							
Sweep up grass, leaves, twigs and cones							
Empty bins							
Inspect/repair minor damage							
Report serious damage or repairs							

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Sweep up grass, leaves, twigs and cones							
Empty bins							
Inspect/repair minor damage							
Report serious damage or repairs							

MONTHLY CHECK/REPORT

Facility Manager..... Week Ending...../...../.....

Groundskeeper.....

<input checked="" type="checkbox"/> OK <input checked="" type="checkbox"/> FAULT (fill in fault report)	
Cross brush filled area	
Check infill levels	

FAULT REPORT

Date	Fault Found	Reported By
Date	Service / Repair Details / Recommendations	
COMPANY NAME:		SIGNATURE: