



PermaLawn

The Permanent Lawn People

PermaLawn Installation Guide



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Introduction

Artificial grass consists of synthetic filaments threaded into a backing layer which allows water to drain through. This backing layer is installed on what is known as a 'drainage layer' which is usually comprised of compacted gravel. The artificial grass is then fastened down at any seams and along its perimeter.

After this some customers then request an in-fill to be placed into their new artificial grass. This is done with either recycled crumb rubber or kiln dried sand. The added weight helps firmly keep the grass in place during strong winds.

Here at PermaLawn none of our artificial grass solutions require an in-fill, but should you choose to have one, we highly recommend using kiln dried sand at a rate of 5kg per m². Our artificial grass is constructed from either polyethylene, polypropylene or polyamide.

Please find below a simple, step-by-step guide on how we recommend you should install your new artificial grass. Should you find these instructions too daunting, don't worry, we have a network of fully trained and qualified artificial grass installers that are used to this type of work.

Our installers have specialised equipment designed for removing turf etc. and will be happy to quote for your new installation.

Before you start

Before you start laying your new artificial grass, you must first correctly prepare the ground upon which your new grass will be laid.

To do this you will need the following tools:

- ❖ **Shovel / Spade**
- ❖ **Rake**
- ❖ **Stanley knife** or precision scissors
- ❖ **Wacker plate** (also called a vibrating plate, plate compactor or a 'vib' plate) - these are available from a large selection of local tool hire companies for a relatively low cost.
- ❖ **Turf cutter** - these are also available from a large selection of local tool hire companies for a relatively low cost. This isn't necessary for creating your new lawn but will save you many hours of labour intensive work removing your current natural grass.

Step 1 - Ground Preparation

The first step in laying your new artificial grass is to correctly prepare the ground ready for its new surface.

Using either a spade or turf cutter (we highly recommend the mechanical option to save both time and effort) remove your current turf that is currently in situ to a depth of at least 50mm (2 inches).

Once you have done this remove any large stones, bricks or extra foliage which has remained, as this will prevent you from creating a flat base for your new artificial grass.

If your garden or area in which you are installing the artificial grass has drainage problems, then we recommend adding a Type 1 rock.



Step 1: Ground Preparation

Step 2 - Installing a timber perimeter

If your artificial grass doesn't naturally have a border to butt up against, you will need to install a timber perimeter around the whole area of your project.

We recommend using pressure-treated timber (often marketed under the trademark 'Tanalised'). This will ensure your border doesn't rot away. The process involves a preservative fluid being forced under pressure into the top few millimetres of wood, helping prevent the wood from quick degradation.

Upon insertion of the wood into the soil, make sure the timber is firmly held in place with around 30mm being above the surface of the soil.

If your project area has one or more sides that DO have a butt such as a pathway and / or wall you only need the timber perimeter on the other non-butted sides.



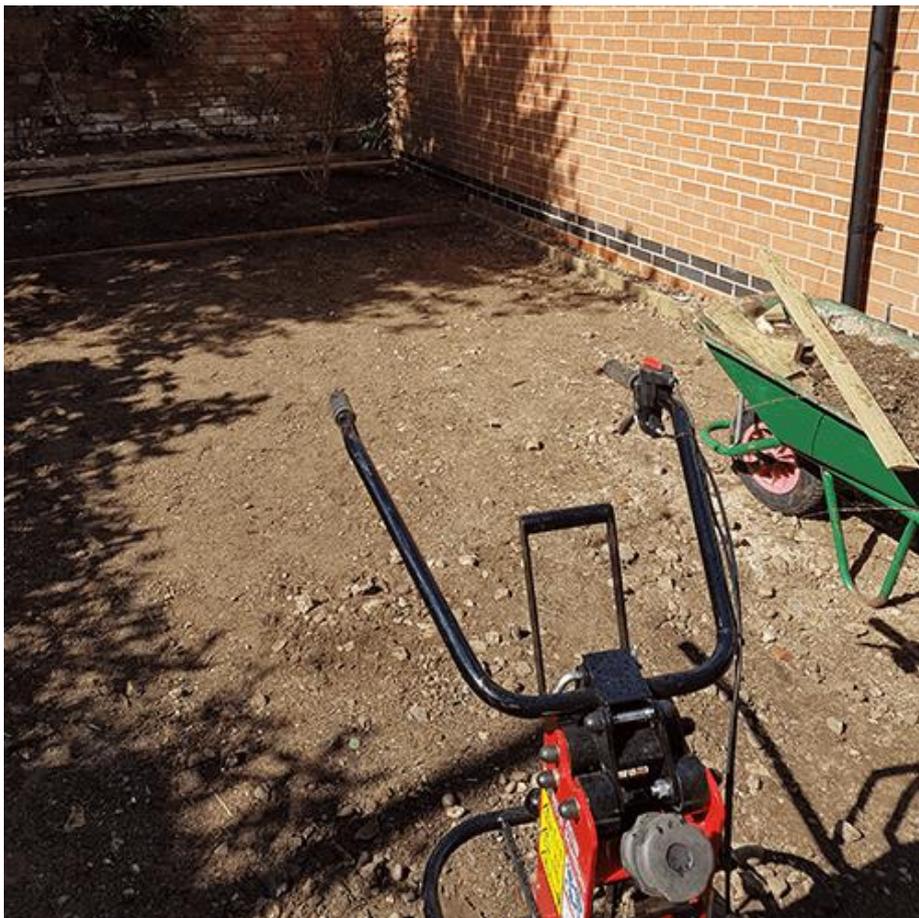
Step 2: Create a timber edging (circled in green)

Step 3 - Levelling your surface

Your next step is to correctly level and compact the ground upon which your new artificial grass will be laid. Using the wacker plate steady move across the entirety of your project area. The natural motion of the wacker plate will make the machine begin to move along.

Hold the handles in a loose, but controlling manner, whilst applying a small amount of forward pressure, move the machine in a striping pattern up and down the compacting area. Keep doing this until the entire area is flat and level.

Please make sure you take all the necessary health & safety precautions before undertaking the use of industrial equipment.



Step 3: Ground levelling

Step 4 - Adding your drainage layer

Next you need to create your drainage layer.

We recommend using a 6mm to dust granite stone compound that is spread evenly across your project area to a depth of between 20mm and 40mm.

TOP TIP: *When levelling your drainage layer use the level edge of your timber perimeter as a guide, this will help you gain a solid and accurate level.*

Once you have successfully laid your granite drainage level you can then go over this again with the wacker plate to ensure optimal compaction.



Step 4: Adding your drainage layer

Step 5 - Installing the membrane

Your next step is to install your weed membrane. This will ensure that no weeds can grow through your new artificial grass whilst simultaneously allowing water to drain away.

Before you do this you may want to apply a 25mm layer of sharp sand on top of your drainage layer to aid in creating a perfectly level base, again compact this down using the wacker plate.

Using PermaLawn's 2m wide heavy duty weed membrane, cover the entire surface of your project area, ensuring the whole area is covered. If you have a section where two pieces of membrane meet, overlap them by 150mm (6 inches) to guarantee no sunlight can penetrate to the low levels.

Fix through the membrane using PermaLawn's 150mm hot dipped galvanised securing pegs to ensure a firm a solid fixture. Follow this process around the major points of the perimeter and along the joining seams of the membrane.

You are now ready to begin laying your new artificial grass.



Step 5: Ground protection & weed membrane installation

Step 6 - Laying your new artificial grass

Now you can begin to install your PermaLawn artificial grass. To start with, place the entire roll of artificial grass against one edge, making sure the grass neatly fits.

Then slowly begin to unroll the grass until it is completely flat with no ripples or bumps.

In the unlikely event your PermaLawn artificial grass has any bumps or ripples, simply leave it in the open sun and it will naturally settle.

The flatter you get your artificial grass, the more natural it will look once fully installed. Once this is done, carefully trim any excess away from the edges using either a Stanley knife or PermaLawn's heavy duty precision scissors.



Step 6: Laying your new artificial grass

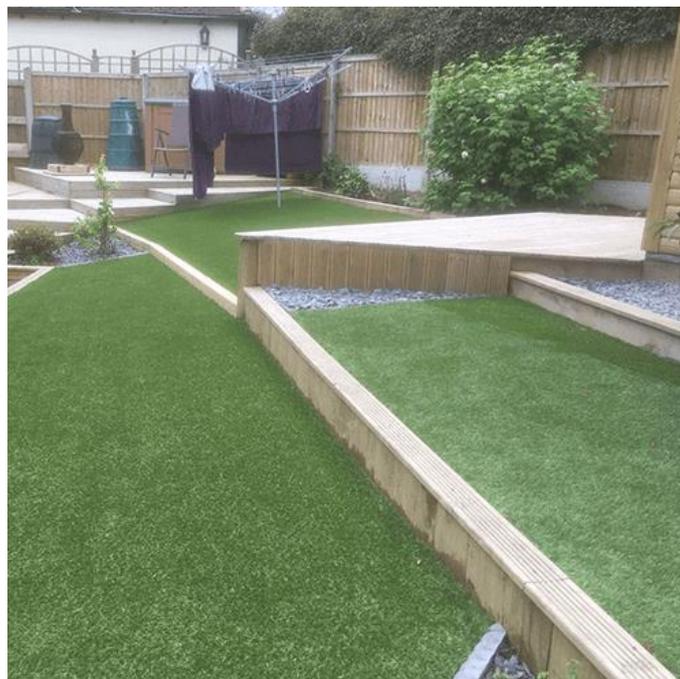
Step 7 - Finishing up

Your final job is to fix the artificial grass in place. You can do this by using PermaLawn's 150mm hot dipped galvanised securing pegs in the same manner as when securing the weed membrane.

Although PermaLawn's artificial grass doesn't require an in-fill, should you wish to have one we recommend using 5kg of kiln dry sand per m². Using a stiff broom, brush the sand evenly across the whole grass into the pile. We recommend doing this when the artificial grass is dry, as it will allow the sand grains to move much easier and distribute more evenly. Don't worry, once this is done you won't be able to see the sand.

If you have an area which needs multiple pieces of artificial grass you will need to join the grass along the seams. You can do this using either our 200mm or 300mm wide PermaLawn joining tape and galvanised securing pegs.

That's it, you're all done! We recommend leaving the artificial grass overnight to fully settle then you can begin enjoying your new, low maintenance, hassle free artificial grass!



Step 7: Finishing up

Further assistance

Should you find these instructions too daunting, don't worry, we have a network of fully trained and qualified artificial grass installers that are used to this type of work. Our installers have specialised equipment designed for removing turf etc. and will be happy to quote for your new installation.

Please visit this page to find a local installer: <https://www.perma-lawn.co.uk/contact/find-an-installer>.

Should you have any questions with regards to the installation of your new artificial grass or wish to view our current grass range and additional accessories simply visit the following pages on our website.

Artificial Grass Solutions - <https://www.perma-lawn.co.uk/tips-and-advice/installation-guide>

Additional Accessories - <https://www.perma-lawn.co.uk/shop/adhesives-and-accessories>

Contact Us - <https://www.perma-lawn.co.uk/contact>

Call us - 01773 441 950

Email us - info@perma-lawn.co.uk



PermaLawn[®]

The Permanent Lawn People



CHILD FRIENDLY



COMFORTABLE



ECO FRIENDLY



HEAVY USE



PET FRIENDLY



RESILIENCE



UV STABILITY

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