

LEAKY PIPE

01622 746495
Sales@leakypipe.co.uk



Leaky Pipe Porous Hoses watering Green Roof Structures.

Green roof or "Sedum" roofs are now being fitted with a sub-mat watering system to ensure the vegetation can be adequately watered during dry periods. This technique allows for just the "planted" area to receive irrigation without spraying people, paths, walls or windows.

Leaky Pipe is a porous rubber hose made from recycled tyre rubber. It is placed on top of the mineral felt layer, just prior to laying the sedum (or similar) vegetation mat. The Leaky Pipe laterals are connected to a water supply provided to the roof level via a suitable polytube. With the water turned on, the Leaky Pipes fill up, pressurise and start to weep water across the roof area. The mat adsorbs the moisture and moves it by capillary action.

Roof structure vary enormously in both size, aspect and pitch so in this information we hope to show you the concepts of the use so you can apply them to your project. Please look at these photos and drawings in this publication and we think that you will see it is fairly straight forward. Systems can be operated manually, when the need for watering is observed. Alternatively, the system may be automated, for predictable, regular irrigation. During the dry period, either method will usually relate to a watering period similar to about 30 minutes of watering per day.



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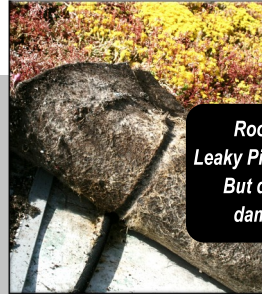
Without watering



With watering.



*The difference
is clear!*



*Roots grow around
Leaky Pipe porous hose
But do not penetrate,
damage or block it!*

This is fact. Not photo trickery!
Reliable, predictable irrigation is the key to success,
NOT constant irrigation!

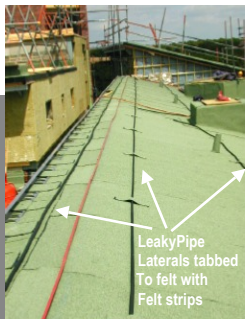
This is an example of a real case found during the growing season of 2010. It is a site in North Wales where, through an unrelated incident, some roof areas did not receive irrigation water through their Leaky Pipe networks. The roof aspects were the same and clearly, they received the same weather. As a result of this, we could see the difference between watered & unwatered areas.

We think that the photos are a clear visual guide to the benefit of watering.



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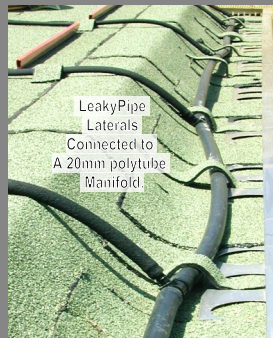


The Principal components in any system for green roofs will be **Leaky Pipe LP12LR, 20mm polytube, and push-fit barbed connection fittings**. These are the essential parts for installing the network on any roof

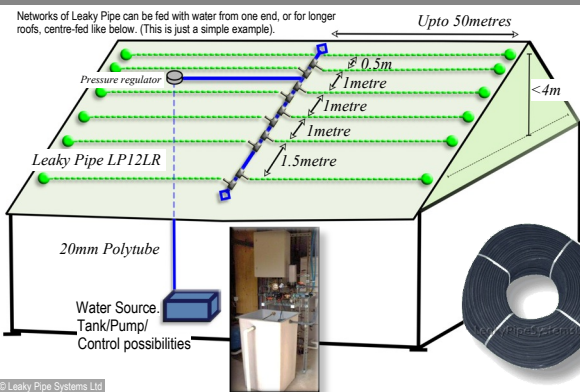
To estimate the quantity of Leaky Pipe LP12LR you require, we suggest you start with your roof area and multiply it by 70%. (100% for flat roof areas). This will give you an approximate metres of LP12LR hose required.

You will need to provide a compliant water source to the roof for the Leaky Pipe network to be connected to. This must be capable of providing the required amount of water to charge the total length of Leaky Pipe at a "working" pressure of 2Bar, (30psi). This means that if you have estimated that the roof you are to install requires 200metres of Leaky Pipe, allow 400litres per hour

(200*2litres/m/hour), to be provided to that roof at that working pressure.



Networks of Leaky Pipe can be fed with water from one end, or for longer roofs, centre-fed like below. (This is just a simple example).



Items list for any roof.
Leaky Pipe LP12LR porous hose
20mm LDPE black polytube.
20-12-20 barbed tee fittings.
20-20-20 barbed tee fitting.
20mm barbed elbows
20mm barbed plugs.
12mm barbed plugs.
Pressure regulator to connect
into supply pipe at roof level.

Email sales@leakypipe.co.uk with your materials estimate or phone us to discuss on 01622 746495 or 07931 538297

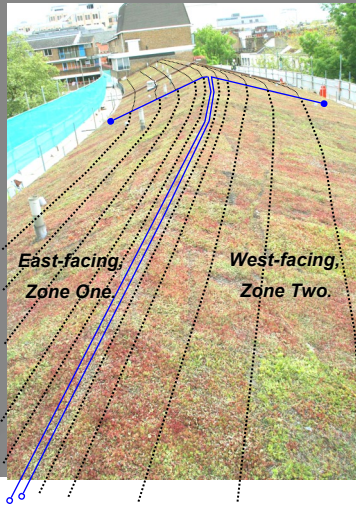
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*A Two Zone, Automated System
Just laid with Polypipes
Installed along the Ridge.*

A System can be worked manually or through a simple timer or switched by an irrigation controller, sometimes with sensors. This can help save labour & roof maintenance costs.



Maintenance:- A damaged Leaky Pipe can be easily fixed with a 12-12 barbed connector, (available from our website www.leakypipe.co.uk).

Also, filtration of the water source with our particulate filters can be a good idea on these systems, but is not essential.

