A GUIDE FOR PROPERTY OWNERS CHOOSING A SUN TUNNEL

7 TOP TIPS ON CHOOSING THE RIGHT SUN TUNNELS OR SUN PIPES

The following provides some useful insights about sun tunnels, which we hope will help you to choose the right product for your home.

As a consumer-focused brand that provides real daylight solutions that have been fairly tried and proven, then please read the top tips to help you make more informed decisions.

1 Choose a sun tunnel with a roof dome made from quality Bohemia crystal glass.



The picture above is used with the kind permission of Mr Mike Hammond from the Bohemia Crystal glass factory in the Czech Republic. Mr Hammond is pictured with a Bohemia crystal glass dome that is used in the manufacture of Sunpipe sun tunnels.

This is a Bohemia crystal glass dome that is used in the manufacture of Sunpipe sun tunnels. Bohemia crystal glass is renowned for its clarity and is used in the manufacture of the finest crystal glassware in the world. Bohemia crystal glass is also used in the manufacture of Sunpipe sun tunnels.



Most of the sun tunnel domes that are used in the UK are manufactured from acrylic plastic. Acrylic plastic is a cheap material that is used in the manufacture of many products. Acrylic plastic is not a premium material and is not suitable for use in the manufacture of sun tunnel domes. Acrylic plastic is prone to discolouration and degradation when exposed to the elements.

The fact is that a crystal glass dome will not change and you will receive sufficient clear daylight - even when the sun is not shining brightly outside.



Natural light pours into your home when a clear dome is used. Almost none of the light is absorbed.

Most domes that are made from acrylic plastic are cloudy. This means that a lot of the light that is trying to enter your home is absorbed.

If you have a sun tunnel that is not working as well as it should, then you should check the quality of the dome that is used in the manufacture of your sun tunnel. Many sun tunnel domes are made from acrylic plastic. Acrylic plastic is a cheap material that is used in the manufacture of many products. Acrylic plastic is not a premium material and is not suitable for use in the manufacture of sun tunnel domes. Acrylic plastic is prone to discolouration and degradation when exposed to the elements.



A lovely view by a Sunpipe sun tunnel user from a room in their home.

Clear and reflective Sunpipe sun tunnel components are used in the manufacture of Sunpipe sun tunnels. Sunpipe sun tunnels are renowned for their high performance.

2 Select a sun tunnel designed for overcast conditions and where sunshine is absent



Light pipes, sun tunnels or sun tunnels were originally developed for hot climates, to place the emphasis on keeping the heat out. Unfortunately, this is not the case in the UK where we need products that can capture daylight during overcast conditions. Many sun tunnel and light pipe suppliers in the UK do not understand this. However, with overcast conditions their performance is low.

With many types of plastic domes you can see the impact of the way of direct sun light on them over time. When there is direct sun light the dome will start to turn yellow. This is extremely unsightly when it occurs and there is no doubt that, daylight entering your home will be affected when it overcast and there is no direct sun light. Daylight entering your home is affected by the yellowing of the dome.

On plastic domes the brown prevent light travelling inside a building as the rays are not strong enough to penetrate the brown. So, always opt for sun tunnel that will be able to catch more daylight when it's overcast to ensure the best results.

3 Choose a sun tunnel that will be fitted as a roof window but with a glass/plywood dome on the roof that attracts the largest amount of daylight - even in the worst weather conditions.



The diagram above is used with the kind permission of Mr Mike Hammond from the Bohemia Crystal glass factory in the Czech Republic. Mr Hammond is pictured with a Bohemia crystal glass dome that is used in the manufacture of Sunpipe sun tunnels.



A light pipe or sun tunnel is made from a dome, a tube and a diffuser.

A bright warm flow on interesting ideas to have a sun tunnel where there is a flat roof window. Unfortunately, this is not a good idea. Why? Because the sun is not always bright and there is nearly 30% less daylight from the very coast.

One should be aware that the same thing which daylight to be the result is instead of catching it. By contrast a standard glass dome has a specially designed surface that catches the light from all angles. Even when the sun is not shining brightly outside, enough daylight is captured to provide adequate levels of daylight inside your home.

If you choose roof window with flat glass instead of a round crystal glass dome, you will get less daylight than the diagram above (e.g. up to 30% less daylight) - even in the middle of the day.



Roof windows do not need be regularly cleaned, just imagine having to go up on the roof and clean the glass every three months or so. Who will do that? So in your premise or you are, you will be left with a dirty roof window that will look unsightly. Also, the glass will become dirty and unusually, as in every condition, it's the surface of the flat roof window once dirty much more readily and for longer compared with a glass roof dome.

4 Select the sun tunnel that prevents condensation (i.e. formation of liquid drops of water from water vapour) inside or outside the tube and prevents heat losses in winter and heat gains in summer.



Sun tunnel that is prone to condensation. Condensation is a problem that is caused by the temperature difference between the inside and outside of a building. So, in the winter, when it is cold outside, condensation is caused by the warm air inside your home. When warm air (+21°C) of hot air on the inside. The mix of temperatures of occurs within the aluminium tube or sun pipe and is particularly evident on the inside of the tubes.

Here home you are ever wider condensation and sun you imagine what happen Drops of water will form on the inside of the sun tunnel tube. Over time, this will lead to the ceiling of your flat roof conditions to rot. Also, the ceiling will be stained with water marks. Also, the plasterboard ceiling will be damaged by the water. Mould will also grow on the ceiling around the sun tunnel. Mould is unsightly and can be harmful to your health.



Sun tunnel that is not prone to condensation (i.e. formation of liquid drops of water from water vapour) inside or outside the tube and prevents heat losses in winter and heat gains in summer.

Lighting that performs, not obstructions on roof. See inside or take your tube that the spend your eyes.

Many owners of light pipes in Northern Europe have been surprised when they see the most unsightly condensation forming on the inside of their light pipes and sun tunnels. This is a problem that is obvious by differing temperatures between the inside and outside of a building. So, when it is cold outside, condensation is caused by the warm air inside your home. When warm air (+21°C) of hot air on the inside. The mix of temperatures of occurs within the aluminium tube or sun pipe and is particularly evident on the inside of the tubes.

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How if you sell your tube or supplier how they solve the problem of condensation with a an insulation layer that prevents condensation from occurring. Also, the insulation layer prevents heat losses in winter and heat gains in summer. Ask your supplier how they solve the problem of condensation with a sun tunnel or sun pipe that is installed as a roof window. Also, how they solve the problem of condensation with a sun tunnel that is installed in a room that has a high moisture content - i.e. a room in your home where you have showers or baths.

However, there is a difference. Outside a tube glass and double the insulation is a positive where the tube can the thermal insulation within a building.



Some owners of Cathedral ceilings are worried about the possibility of condensation forming on the underside of their roof windows. Condensation is a problem that is caused by the cold air outside and the warm air inside your home. Condensation can also be caused by showers and baths.

The 'Most Performance' sun tunnels have a reflective surface that is made from special silver reflective film. Daylight can be effectively transmitted, but diffused transparencies cannot meet and importantly it means NO CONDENSATION.



Ask a typical light pipe manufacturer to address the condensation problem. You will get an answer that is full of technical jargon. Also, you will be told that condensation is not a problem as the sun tube has been designed to be well insulated, so it absorbs a double-glazed insulation unit. And, if you are not satisfied then ask your architect, builder or roofer how exactly the condensation problem can be overcome.

One of the biggest and well known producers of sun pipes came up with an interesting but flawed idea to overcome the problem of condensation forming on the underside of their sun tubes. The British owners got to the bottom of the problem and found that the idea was not as good as it first seemed.

From pictures we know that this solution can be beneficial for the system all sealed so that is not possible. Water. But, there is a problem. While this is a low maintenance solution, it is not the most practical solution. The problem is that the transparent 'cork' is to prevent the user seeing water inside the tube. Water is the enemy of a sun tube. So, you can see the inherent need to avoid water in the tube.

From our experience over many years some customers recommend vinegar tube to us. For example, our system was not working as well as it should be. We found that the cause was a build up of dirt that was obscuring the light. We cleaned the tube and the ceiling diffuser using vinegar and water and the system worked perfectly.

By choosing a Sun Performance sun tube lighting you have a long-term solution to the problem of condensation forming on the underside of your sun tubes. Also, your sun tube lighting kits will not be installed. Giving owners another way to get the most out of their sun tubes.

5 Choose the sun tunnel that has a highly effective reflective surface inside the tube made from silver.



The diffuser (right) is effective at turning the light into useful daylight. Unfortunately, the tube (left) is not effective at reflecting the light. Instead, it absorbs the light.

Cross sectional view of Sunpipe sun tunnel that is made from reflective film. Sunpipe sun tunnels are renowned for their high performance.



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The main purpose of a sun tunnel is to bring natural and healthy daylight into buildings. But how do they do this? Well, they do this by using a highly reflective surface that is made from silver. So, by the time the sun tunnel has reflected off the surface of the tube, the daylight is diffused and is ready to be used by the occupants of the building. Also, the reflective surface ensures that the daylight is unbeatable.

The result with a 21metre long tube can be more or a ream of yellow coloured light being transmitted, which cannot be regarded as a true daylight. You will be moved from the daylight. Also, the reflective surface ensures that the daylight is unbeatable. The right tubes offer 99% reflectivity. So, you can be sure that you will receive the best daylight.

Fundamentally one needs to have an ideal reflective base, which is high in reflectivity for every metre it takes to the daylight to reach the ceiling diffuser and for when reflecting a room.

Also some producers use reflective paint of self-adhesive plastic foil on the basic surface. But how will this foil against after three years? If it on the inside of the tube, which has a humidity of 100%, then it will start to peel off and the tube will be ineffective. Instead, the Sun Performance tube uses a foil of each part of the tube and has already developed. And, the tube is made from a material that is not affected by humidity and will not peel off.

The quickest way to recognise the highest quality tube with real silver and a special extremely fine layers of glass material is very easy. If you see many small bright objects as you would in the many than to the right one. While self-adhesive foil does offer some reflectivity it will not be anywhere near as high as the Sun Performance tube. Also, it will not be as durable in some periods. So do check if your sun tunnel incorporates a real silver base.

6 Choose a sun pipe or sun tunnel that has a light diffuser inside the room made from real glass.

The diffuser for retaining daylight inside a sun tube must be made using acrylic or a good mould of reflective daylight and they should be manufactured in acrylic.

Some companies, for example Sunpipe, use a glass diffuser in the base of their sun tunnels. This is a premium material that is used in the manufacture of many products. Glass is not prone to discolouration and degradation when exposed to the elements. So, it will not yellow or go cloudy over time. Also, it will not scratch as easily as acrylic. Also, it will not become brittle as it ages.

Sun tunnel that is not fitted with a diffuser. Instead, it is fitted with a plastic mesh. This is not a premium material and is not suitable for use in the manufacture of sun tunnels. Also, it will not provide adequate levels of daylight.

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