

Eco Snowmelt System



Accidents happen...



...if you do nothing

Why should you combat ice and snow?

Figures from the Hospital Episode Statistics for England show there were 2,919 admissions to hospital in 2014/15 as a result of people falling over on snow or ice.

About one out of every three people aged 65 or older will fall each year.

If the health problems and costs derived from these figures justify alone the need to remove the ice and snow from walking paths it should be also stated that slippery sidewalks prevent many people like elderly and wheelchair users, among others, from leaving their houses in winter periods.

This fact not only generates an isolation and autonomy problems to a significant part of the population but reduces also the commercial activity and social life in streets.

Finally it is not a minor safety and comfort issue that crossings, parking entrances and private paths are free from ice and snow.



Snowmelting systems provide safety and comfort

If they are so necessary, why snowmelting systems are so scarce?

Manual removal of snow is expensive and sometimes the removal of ice is very hard.

Snow removal machines can easily operate over the traffic pavement but use to experience difficulties while removing snow on the sidewalks.

Chemical melting systems like salt and other products pollute soil and waters and radiant floors use to be expensive when installed, expensive when working if hydronic and even more expensive if they are electric.

Access Safety Eco Snowmelting System as a solution.

The Eco Snowmelting system developed and patented by us is the result of years of experience in city flooring for extreme conditions and three years of research and tests.

The special thermal conductivity and resistance to weight and wear thanks to a very special chemical formulation, the high anti-slippery coefficient and its advanced design turns our Eco Snowmelting System in the most efficient way to prevent the presence of ice and snow in walking areas and crossings.

The main advantages of the Eco Snowmelting System are:

- Produces heat at less than 15 mm from surface
- Frost resistant even if not working
- Impact resistant
- High Thermal conductivity
- High mechanical strength
- High slip resistance
- Stain resistance
- Immutable properties along the years
- Ecological
- No maintenance required
- Paint saving in crossings

Eco Snowmelting System installation

The **Eco Snowmelting System** can be installed as substitutive of sidewalks and crossing pavements or, in some cases over the existing pavement.

The base of the system is an insulation bed resistant to traffic weight that can be installed directly over a flat concrete surface.

The mounting system is very easy and even allow DIY projects.

Depending on installation design, in case that utility should be repaired under the radiant floor, a small section can be easily uninstalled and reinstalled.

When Access Safety is involved in the project one of the key elements that concentrates the attention of our Technical Department is to find the closest and more efficient source of energy. This can be reuse of sewage waters or exchange of energy with the soil, with running waters or with the air. Any water over 0 degrees Celsius or even air under -30 degrees Celsius can be used as energy source.

In case of small domestic installations, the existing heating system used for the house can be also used to prevent snow and ice in home entrances.

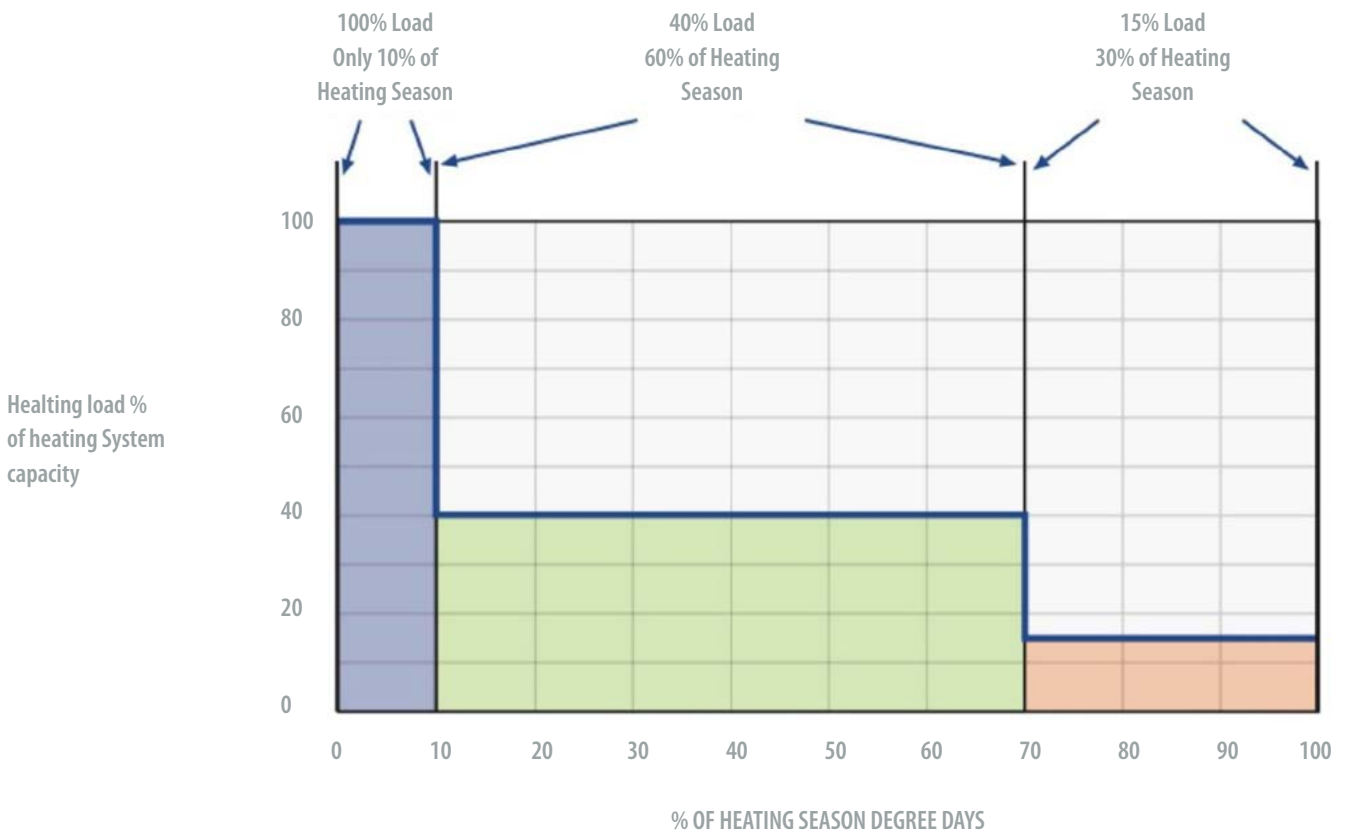
The selection of the energy source may determine functioning costs that may rank between 3 Kw to 45 Kw per square meter each winter season.

Systeme Costs	Electric	Water/Gas	Geothermic volcanic	Hot water return	Eco Snowmelt system
Installation Materials (average prices central Europe)	43-65 €/m ²	55-107 €/m ²	55-107 €/m ² + connection to heat source	55-107 €/m ² + connection to heat source	50-90 €/m²
Cost energy for season	40-75 Kw/h/m ²	21-52 Kw/h/m ²	3-20 Kw/h/m ²	5-50 Kw/h/m ²	3-45 Kw/h/m²
Management	Public or private	Public or private	Public or private	Public or private	Public, private or shared

Eco Snowmelting System installation

The energy production equipment will be tailored to the local conditions considering the savings obtained by producing only the energy required in each moment.

The system can both work automatically under efficiency algorithms or be monitored and activated remotely.



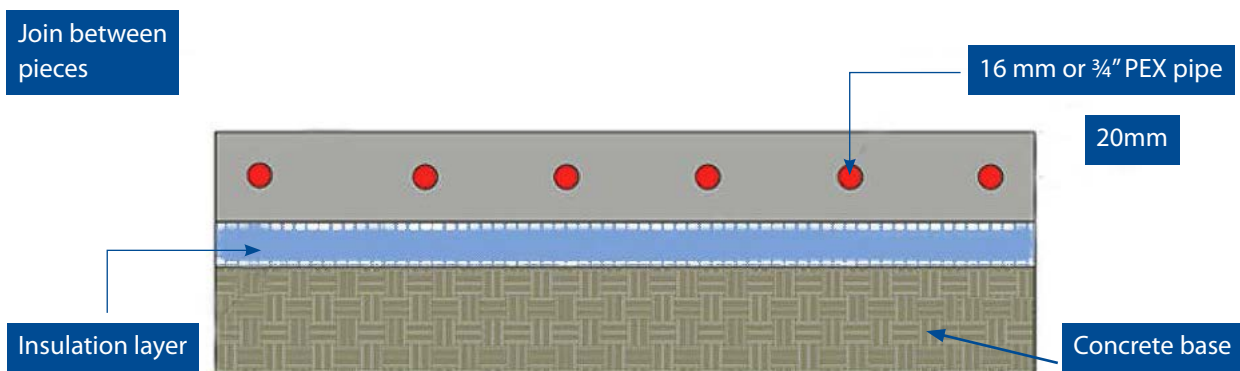
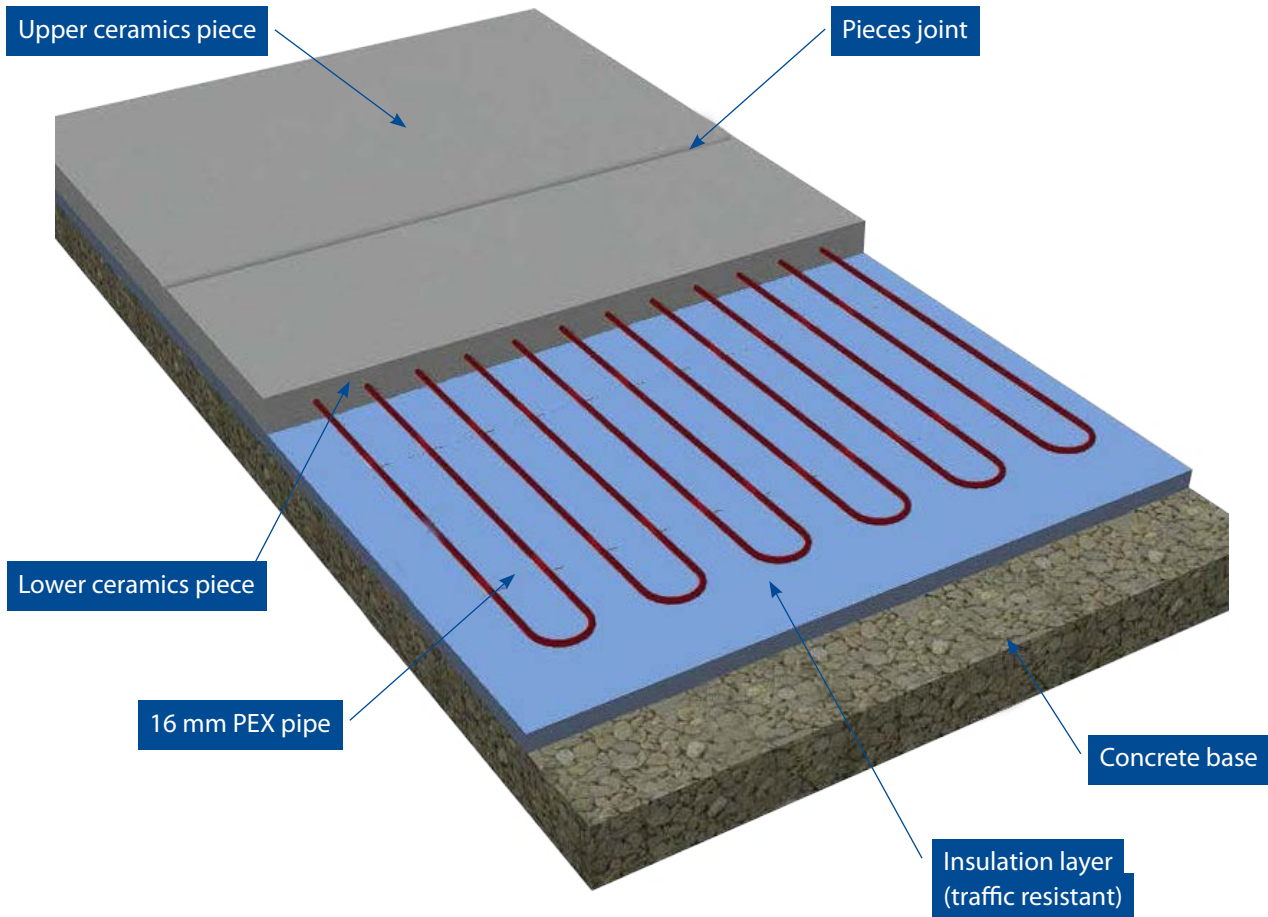
Technical characteristics of Eco snowmelt pavement

Pavements used for Eco snowmelt system are ice and spots resistant and non-slippery. Different materials should be selected for pedestrian and light traffic and for crossings and heavy traffic. To know more about technical characteristics of pavement read Stone 20 and Tablet 20 product description forms.

Example of installation design option

Eco Snowmelt System place the heat source at 12 mm from the snow to be melt away

The radiant floor is designed to be mounted easily by not specialized personnel and, depending on the design, not requiring the use of cement or glue over a resistant flat surface.





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