

EN-TECH Srl • Via Provinciale 63R, n.149/CF, 42044 Gualtieri RE

• VAT No: IT 02650530351

• info@plyterm.com • www.plyterm.com

OUTDOOR SOLUTIONS

PLY-SKID, the heating polymer strip suitable for multiple uses in the field of prevention of ice formation and snow melting.

PLY-SKID is based on a strip containing an amorphous metal ribbon which greatly exceeds the performance of hydronic and heating cable systems thanks to the following characteristics:

- Large contact area (imprint) on the surface
- Reaches the operating temperature very quickly
- Better energy efficiency
- Highest temperature compared to other products
- Simple and easy to install, adaptable to any type of surface and shape
- Better electrical and electromagnetic protection
- Reliable and long lasting



Areas of application

Paving in concrete, asphalt, stone, tiles, granite, turf and compact soil for flower and vegetable cultivation, roofs of any kind.

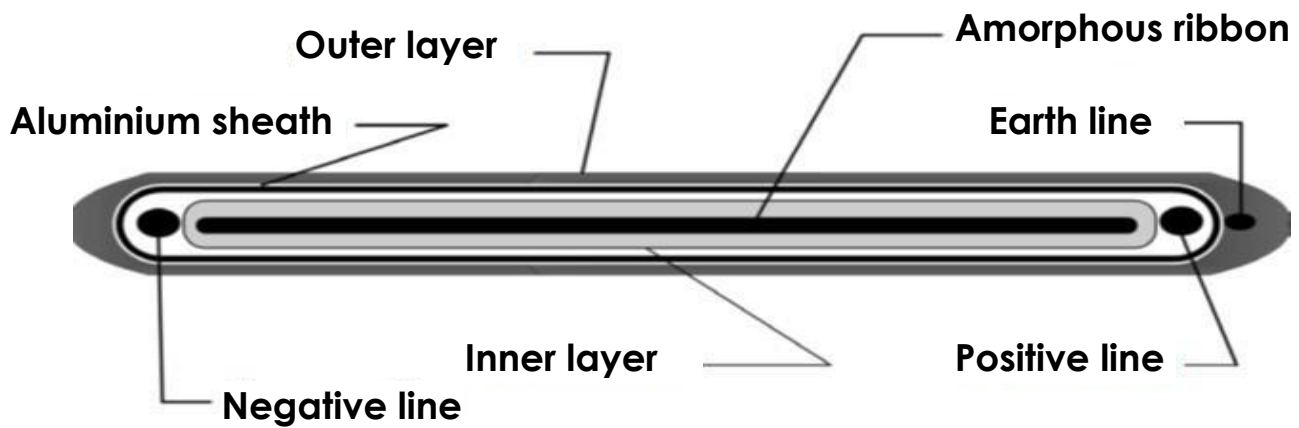
Series of elements

- Under paving at 250-500 Watts/m² (maximum emission achievable by reducing the spacing between the strips)
- Protection of pipes, gutters and technological systems thanks to the extreme flexibility of the material



Element performance

the heating system is made with an amorphous metal ribbon, with a thickness of 25 μ . Using different laying widths and lengths of material, different thermal powers are obtained according to the application needs. The normal upper limit is 62 Watts per metre, equivalent to over 5 Amps for a single circuit. The power supply can be based on alternating or direct current, from 230 to 600 Volts.



Substrate size

The strip has a width of 3.3 cm and a thickness of 0.5 cm, very flexible, the heating effect extends over an area of about 16 cm, particular powers and measurements can be made against a project.



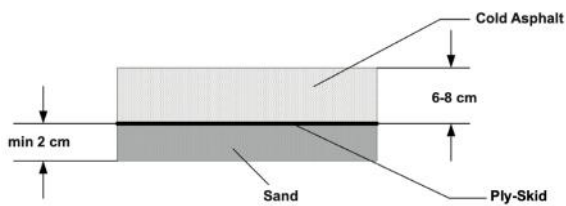
Areas of use

The system can be used for any type of paving, since the substrate does not require insulation from water and cement screeds.

Given the structural, functional and safety characteristics, it is therefore suitable for CIVIL (roads, ramps, car parks), INDUSTRIAL (areas of movement and human activity in the open air, drying, fermentation and cultivation), SPORTS (earth, synthetic fields, slopes), AGRICULTURAL (hatching, horticulture, controlled intensive cultivation) areas.

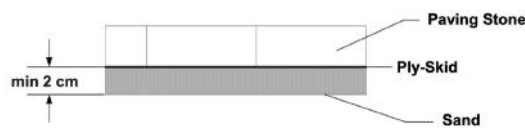
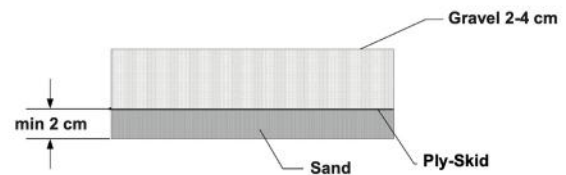
The power configuration applied for each use is specific and supported by our design, each application is studied and assessed with the site designers in order to make the system more effective. The control systems are able to distribute the required electrical power, to facilitate the distribution of the power involved.





The use of the system under asphalt is common in urban and residential realities, thanks to the simplicity of installation and use. Periodic renewal of the surface layer does not affect the functioning of the pre-installed system.

The system placed under gravel or crushed stone, made stable at the bottom with aggregating materials to avoid any passage of air, is the solution for outdoor avenues in architecturally prized or restricted realities.



Stone paving benefits particularly from the system as it is the definitive solution to the problem of ice, whether flat or sloping, pavements or stairways. Heating paving stones keeps them in good condition over time as it hinders the formation of ice in existing cracks, and prevents the formation of new ones.

Installation in natural and synthetic soil

The positioning of the strips in open ground is the main use in agriculture and sports.

The constant radiant heat under cultivations in greenhouses, on the ground or in cultivation tanks, guarantees the fastest growth with consumption linked to real needs, as the heating can be regulated according to various environmental parameters (temperature and humidity) and times.



In the sports arena, laying is envisaged in natural terrain with seeded lawn ①, synthetic lawn ②, synthetic with technical underlay ③, according to the use and approval requirements of the system.



The installation systems for large surfaces require the use of specific machinery.



Regarding sports, all kinds of outdoor systems can be fitted.



In large dimensions, PLY-SKID is the ideal solution, it guarantees the best efficiency with the lowest installation costs and does not require any maintenance. The de-icing of access and parking areas and the prevention of snow formation for photovoltaic systems complement the prerogatives of a highly adaptable product.

Access to trains, ski lifts, schools



Outdoor sports facilities



Urban stops for trams, buses, parks



Large sports facilities



Routes and car parks in high-traffic areas



Snow/ice photovoltaic prevention



Russia, Tube access



Previous situation



With the system



Installation

Road ice prevention



Hot laying with asphalt machine







Example of installation for an underground parking access ramp, located in the Netherlands, the air temperature is -9 °C, the action of the system has allowed the complete operation of the garage without having to remove the snow, the installation is only along the wheel tracks for a width suitable for different vehicle tracks. Thanks to PLY-SKID, the car park is operational throughout the winter due to the absence of ice, as an alternative to the use of salt which causes frequent breakage of the asphalt surface layer.