



Installation Guide

SolarPath LightMark S1 SolarPath LightMark S2



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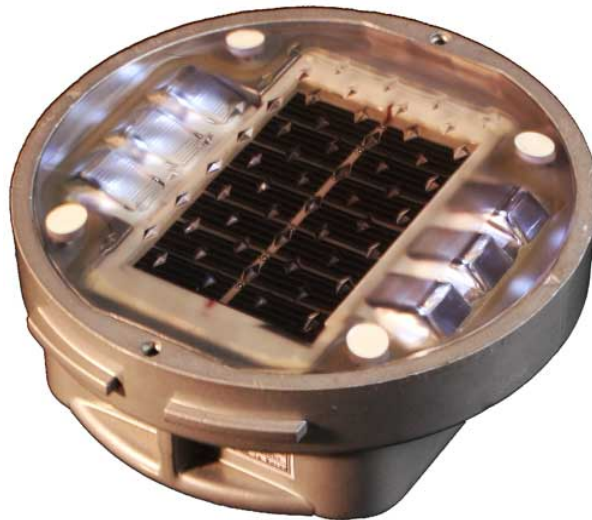
1 Overview

This document describes the procedure for the installation of the LightMark S1 and LightMark S2 solar powered pavement markers.

LightMark S1



LightMark S2



2 Installation Environment

2.1 Lighting conditions

All LightMark series pavement markers should be installed in an environment which allows at least 3 hours of charge time by direct clear day sun-light or 8 hours of direct soft sun-light (cloudy or rainy conditions)

2.2 Temperature

LightMark S1 & S2 is resistant to extreme weather conditions and can operate under the temperature range of -13°F to 140°F.

Constant operation outside this temperature range may affect unit lifetime and output.

2.3 Chemicals

While well resistant to water and salt, long exposure of the unit to certain chemicals such as acids, solvents and toxic gases can harm the unit body and top cover, therefore, installation of the unit in such environments is not recommended.

3 Required tools and materials

Tools

- Concrete coring drill
- Jack Hammer
- 5" (5m) wide Jack Hammer chisel bit
- Air compressor/pressure washer (for cleaning)
- LightMark S1 installation
 - $\Phi 5''$ (10cm) Concrete/Asphalt diamond core bit (cup shaped)
- LightMark S2 installation
 - $\Phi 6''1/8''$ (15.5cm) Concrete/Asphalt diamond core bit (cup shaped)

Material

- Adhesive – Recommended: Polymeric epoxy glue (Polycraft #432)

Optional

- Power Generator
- Extension cords
- Lighting equipment
- Disposable rubber gloves (for handling adhesive)
- Cleaning tools (brooms and brushes)

4 Installation Procedure

1. For optimal assembly, verify that the designated installation surface is flat.
2. Drill an installation pit of the following dimensions:

	Inches	Cm
Diameter (S1)	5"	10
Diameter (S2)	6"1/8"	15.5
Depth	2"	5

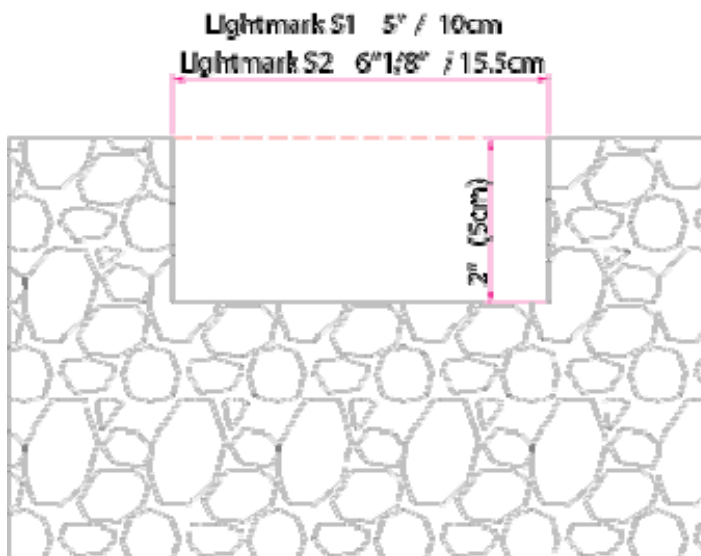


Fig 4.2.1.



Fig. 4.2.2

3. Make sure the installation pit and the surrounding area is clean of any dust and debris (use of pressure washer is recommended)
4. WITHOUT USING AN ADHESIVE, place a LightMark S1/S2 unit in the installation pit.
5. Make sure that the unit can be inserted to the pit without use of force and that there is a small gap between unit body and the installation pit walls.
6. Remove unit from installation pit.
7. Making sure area is dry, pour / inject adhesive into the installation pit.

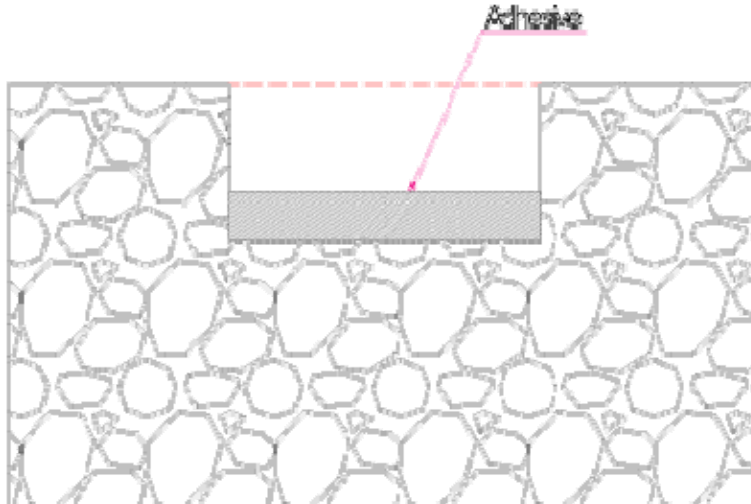


Fig 4.7.1.

8. Place the LightMark S1/S2 unit inside the installation pit and press it downwards onto the adhesive until top cover is **at surface level for snow plowed areas** OR **1/8" / 5mm** above surface level at places with limited visibility.

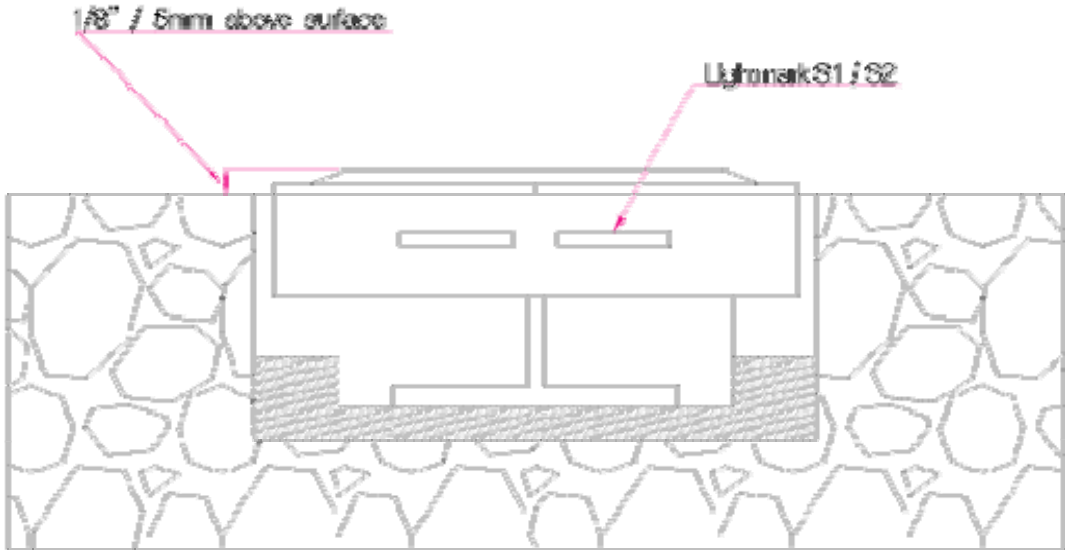


Fig. 4.8.1

- 9. Once the unit is placed in the pit and is in the correct height, fill the remaining gap between the unit and the installation pit's walls with adhesive.

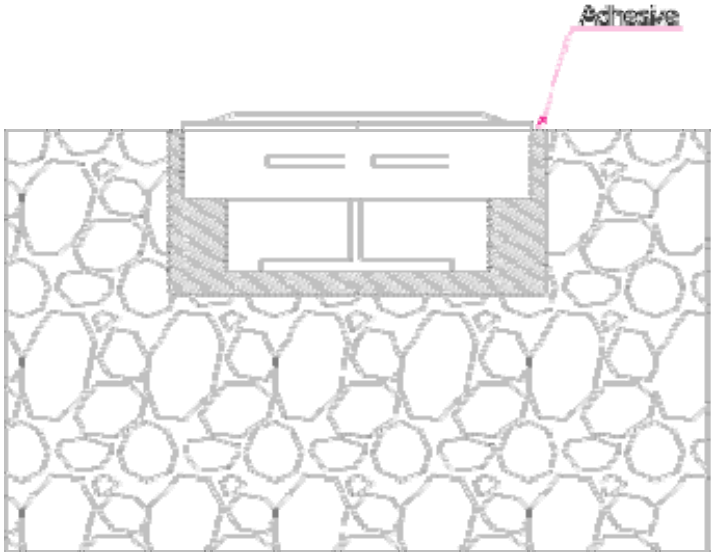


Fig 4.9.1



10. Remove any excess adhesive from the installation area.

NOTE: If any cleaning and removal of Polymeric epoxy glue is required, it is recommended to do so during the **first hour** of the glue's exposure to air and can be done using soap and water.

5 Installation verification

3 hours past installation, verify that the unit is firmly locked in its installation pit and is irremovable.

6 Installation examples

LightMark S1



LightMark S2

