

SolarLite Flush

Low-profile, flush to the road surface solar stud - engineered for high-traffic and rural roads, built for long-term performance.

The SolarLite® Flush is a DfT Type Approved, flush-mounted solar road stud designed for roads where durability, ride quality and long-term performance are critical. Installed directly into the carriageway and sitting less than 4 mm above the road surface, it provides active guidance with visibility of up to 900 metres, helping drivers identify hazards earlier in darkness, adverse weather and low-light conditions.

The low-profile design delivers a smooth running surface while protecting the stud from traffic impact, making it ideal for high-speed roads, central lanes and locations subjected to heavy vehicle loading. Fully solar-powered and virtually maintenance-free, SolarLite Flush offers a reliable, sustainable solution with a service life of up to 8–10 years.

**Plan your
project with
our stud
calculator**



Key Features

- **Flush-mounted** design with <4 mm profile
- **DfT Type Approved**
- **Fully solar-powered** and off-grid
- **Engineered for heavy** traffic environments
- **8–10 year** service life

Key Benefits

- Smooth, low-profile running surface
- Visibility up to 900m
- Designed for demanding highway applications
- Lower whole-life costs
- Sustainable, off-grid operation

Typical Applications:

- Motorways
- Dual carriageways
- Central lanes and rural roads
- High-speed roads
- Hazardous bends & Roundabouts
- Junction approaches
- Permanent highway safety schemes

Technical Specification

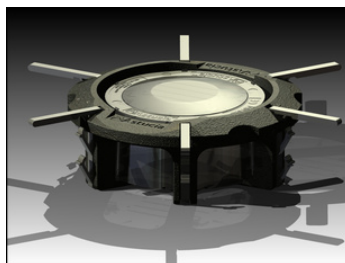
	Amber, Red, White, Green, Blue
Operating temperature range	-20°C (-4°F) to 60°C (140°F)
LED configuration	Uni / Bi directional
LEDs per stud	1 per uni directional stud 2 per bi directional stud
LED size	5mm
LED colours	Amber to EN1463 Red to EN1463 White to EN1376 C Green to EN1463 Blue to EN1376 A
Approximate max distance of view	Up to 900m dependent on road layout
LED output	>100Hz
Battery	Nickel metal hydride
Output - full charge	Up to 240 working hours with no solar input
Time to full charge	Time to full charge 3hrs @100 klux (sunny day)
Fixative	Triflex R238 Resin (UK) or Robnor Resin EL628SS (Non-UK)
Housing colour	White

Dimensions	108 x 112 x 52mm (4.25"x 4.4"x 2.04")
Projection	4mm (0.15") above road surface
Weight	450g (16oz)
Reflector	Diamond grade

Snowplough-Proof Housing

The SolarLite Flush stud can incorporate a durable cast iron snowplough-proof housing specifically engineered to protect the road stud in demanding highway environments.

The housing deflects snowplough blades over the stud, minimising impact damage and ensuring long-term reliability, helping maintain active road delineation throughout the year, even in severe winter conditions.



Material	Ductile Iron (EN-GJS-400-18-LT20)
Dimensions	153 x 153 x 62.5mm (6" x 6" x 2.46")
Projection	4.5mm (0.18") above the road surface
Weight	2.35kg (82oz)

*Outside UK only

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