

Road Traffic Regulation Act 1984 Sections 64 and 65

Authorisation of traffic signs and special directions

Accessible transcript

Secretary of State for Transport's traffic authorisation of approval for road studs for the purposes of carrying out road tests in accordance with the provisions of British Standard BS EN 1463-1:2021 (as required by draft Standard BS prEN 1463-3) on the M54 motorway westbound between Junction 5 and 6.

The following pages contain a copy of the text from the Secretary of State for Transport's traffic authorisation regarding the above sign/marking.

A scanned copy of the signed authorisation and supporting signs/markings from the application are appended to this letter. The supporting material is submitted to the Department for Transport by a third party. You should refer to the party involved for accessible copies of the supporting material.



ROAD TRAFFIC REGULATION ACT 1984 – SECTIONS 64 AND 65 APPROVAL OF TYPE OF STUD

The Secretary of State for Transport, in exercise of his powers under sections 64 and 65 of the Road Traffic Regulation Act 1984, and all other powers enabling him in that behalf, in accordance with the requirements of directions 7(4), 7(5) and 7(6) of the Traffic Signs General Directions 2016 (S.I. 2016/362) and having regard to directions 7(1), 7(2), 7(3), 7(7) to 7(11) and 11, hereby:-

- approves the road studs specified below for the purposes of carrying out road tests in accordance with the provisions of British Standard BS EN 1463-1:2021 (as required by draft Standard BS prEN 1463-3) on the M54 motorway westbound between Junction 5 and 6; and
- directs that the adhesive used for fixing the road studs shall be Fosroc Nitobond TM or Robnor resin EL628SS or Triflex Cryl R 238S; and
- 3. directs that this approval shall expire on 1st September 2025.

SPECIFICATION

Product identification	Clearview Intelligence SolarLite-Click housed within a Stimsonite 381c shoe and cassette assembly.
	Clearview Intelligence SolarLite-Surface.
	Part numbers 806338-001 to 015
Description	Unidirectional or Bidirectional road studs with LED illumination



LED manufacturer's identification numbers	White (4150k-4500k)
	Red
	Amber
	Green
	Blue
LED to comply with the chromaticity requirements of	prEN 1463-3 pt1 (Draft)
LED flash rate	100 Hz minimum, with each flash equally spaced
To be of the size and type shown on the drawing marked with the Department's number	GT50/197/0011-1, GT50/197/0011-2, GT50/197/0011-3, GT50/197/0011-4, GT50/197/0011-5, GT50/197/0011-6, GT50/197/0011-7

Dated 10 January 2024

Signed by authority of the Secretary of State		
A Delegated Official of the Department for Transport		



SCANNED AUTHORISATION AND MAPS / SIGNS FOLLOW



ROAD TRAFFIC REGULATION ACT 1984 – SECTIONS 64 AND 65 APPROVAL OF TYPE OF STUD

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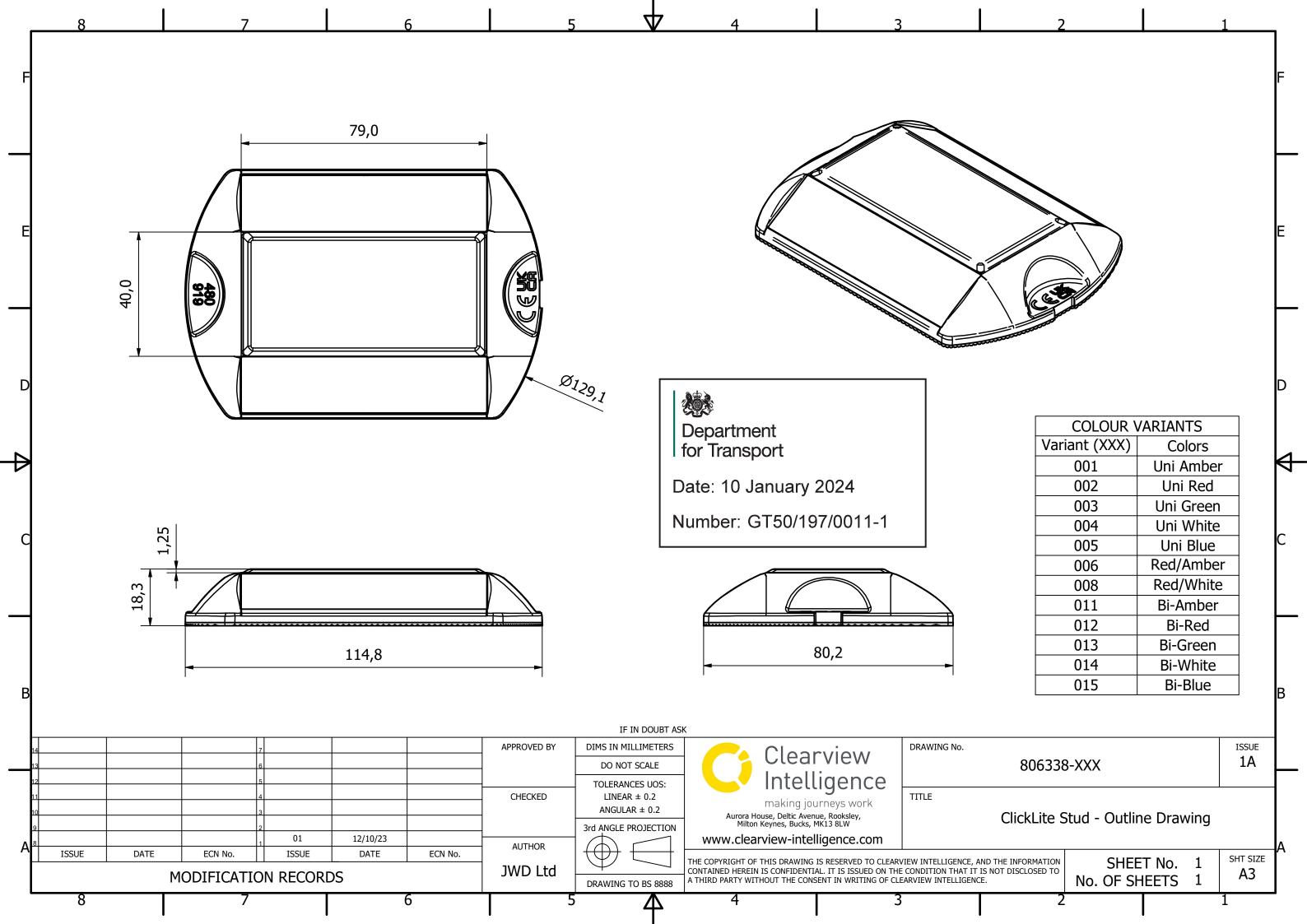
Dated 10 January 2024

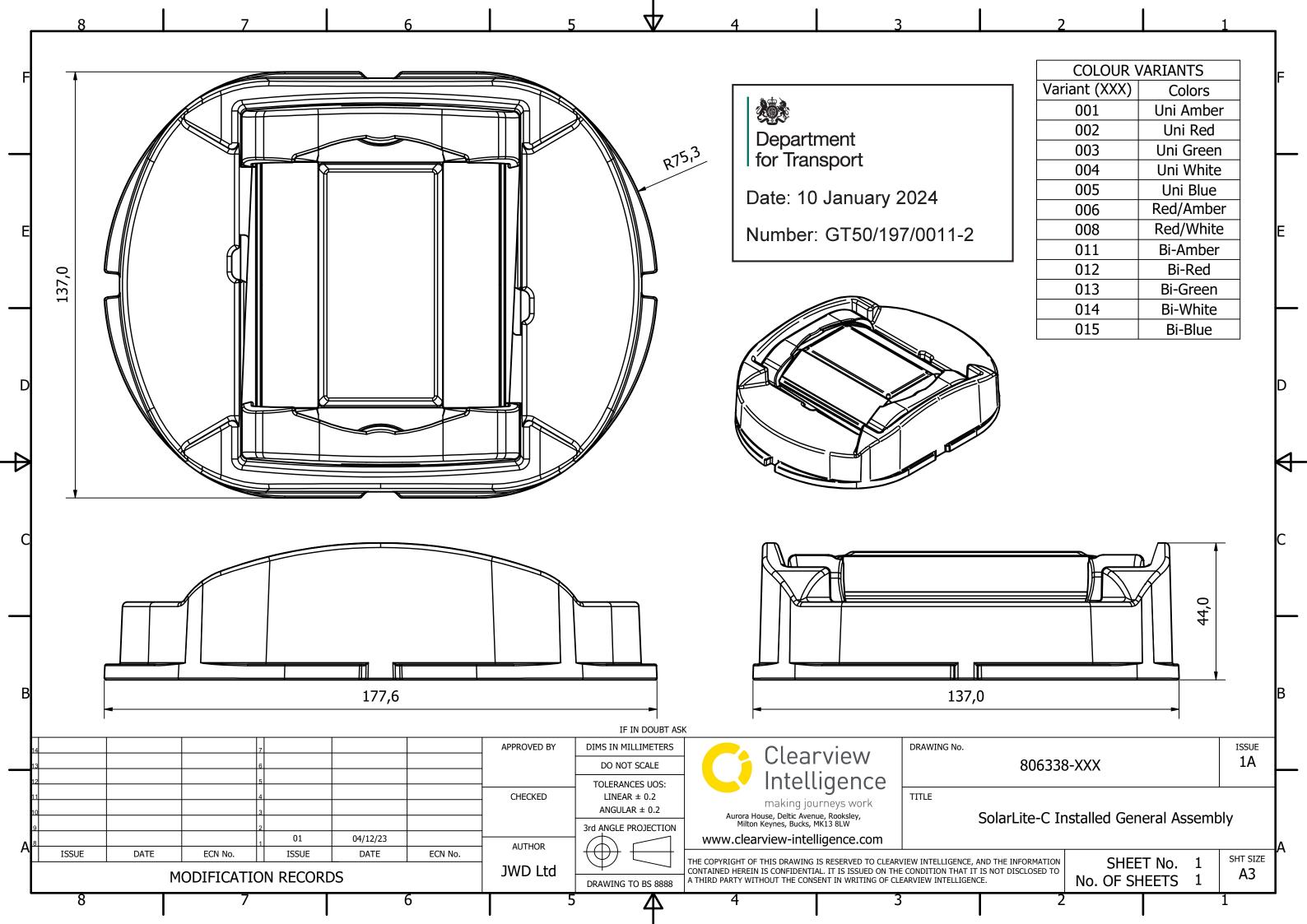
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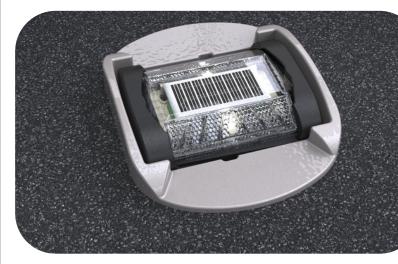
SolarLite-Click

Reflector colour	Amber, Red, White, Green, Blue	
Operating temperature range	-30°C to +85°C	
LED configuration	Uni / Bi directional	
LEDs per stud	1 per uni directional stud 2 per bi directional stud	
LED size	5mm (all colour variants)	
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	8 hours with 500W/m2 illuminance	
Installation	Housed within a Stimsonite 381c shoe and cassette assembly	
Housing colour	Transparent	
LED manufacturer part numbers		
Physical dimensions	w114.8mm x h18.3mm x l80.2mm (w4.52"xh0.72"xl3.16")	
Physical dimensions when installed	Shoe housing - 8mm above road surface	
Product weight	135g	
Product reflector type	Corner cube plastic with abrasion resistant layer	

Solar powered road stud to provide guidance and advance warning to road users day and night

SolarLite-Click is an 'active road stud', providing enhanced visibility for drivers with an inbuilt solar powered LED to delineate the route ahead. The SolarLite-Click offers versatility to network operators, designers and maintainers alike with the ability to remove and replace studs in the event of resurfacing works or contraflow.

The stud has been designed for installation by using the proven C80/P09 shoe and cassette assembly to affix the stud in place.



Benefits

- Enhanced distance visibility of road layout ahead compared to retro-reflective studs – even in poor weather conditions or on wet roads
- · Allows additional driver reaction time to respond to changing road layouts
- Reduces erratic driving behaviour and promotes smoother braking along winding roads
- Versatility of stud accessibility allowing for stud removal and redeployment in the event of resurfacing works or for contraflow
- Retroreflective face of stud visible in daylight conditions

Features

- Superior solar energy harvesting & storage electronics designed to maintain light outputs throughout a full annual cycle
- Use where street lighting is either unavailable, not cost effective or environmentally not possible
- Eliminate mains power running costs for street lighting on the network by using efficient renewable energies to power active road studs



Date: 10 January 2024 Number: GT50/197/0011-3

www.clearview-intelligence.com







SolarLite-Surface

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LED output	>100Hz	
Battery	Nickel metal hydride	
Output - full charge	Up to 240 working hours with no solar input	
Time to full charge	8 hours with 500W/m2 illuminance	
Installation	Bonded directly to surface with Fosroc Nitobond adhesive	
Housing colour	Transparent	
LED manufacturer part numbers		
Physical dimensions	w114.8mm x h18.3mm x l80.2mm (w4.52"xh0.72"xl3.16")	
Product weight	135g	
Product reflector type	Corner cube plastic with abrasion resistant layer	

Solar powered road stud to provide guidance and advance warning to road users day and night

SolarLite-Surface is an 'active road stud', providing enhanced visibility for drivers with an inbuilt solar powered LED to delineate the route ahead. The SolarLite-S allows for network operators, designers and maintainers alike to enhance a route with the benefits of active road studs to a driver whilst stud installation time is kept to a minimum.

The stud has been designed with a texturised base to allow for bonding of studs directly onto the road surface.



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LED output	>100Hz	
Battery	Nickel metal hydride	
Output - full charge	Up to 240 working hours with no solar input	
Time to full charge	8 hours with 500W/m2 illuminance	
Installation	Bonded directly to surface with Robnor resin adhesive	
Housing colour	Transparent	
LED manufacturer part numbers		
Physical dimensions	w114.8mm x h18.3mm x l80.2mm (w4.52"xh0.72"xl3.16")	
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Installation	Bonded directly to surface with Triflex Cryl R238 adhesive	
Housing colour	Transparent	
LED manufacturer part numbers		
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Product Options

Symbol	Part Number	Description
	806338-001	Amber- Uni-directional
	806338-002	Red- Uni-directional
	806338-003	Green- Uni-directional
	806338-004	White- Uni-directional
	806338-005	Blue - Uni-directional
	806338-006	Red/amber - Bi-directional
	806338-008	White/red – Bi-directional
	806338-011	Amber – Bi-directional
	806338-012	Red – Bi-directional
	806338-013	Green – Bi-directional
	806338-014	White – Bi-directional
	806338-015	Blue – Bi-directional



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