Department for Transport

GT50/197/0001

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 of all other enabling powers, in accordance with the requirements of direction 57(3) of the Traffic Signs General Directions 2002 (Part II of SI 2002 No. 3113) and having regard to direction 59, hereby:

1) approves the road stud specified below for use in accordance with regulation 31 in the Traffic Signs Regulations 2002 (SI 2002 No. 3113), in conjunction with the road markings shown in diagrams 1004 to 1008.1, 1010, 1012.1 to 1013.4, 1025.3, 1025.4, 1035 and 1040 to 1042.1 in Schedule 6 to those Regulations, and;

2) directs that the adhesive used for fixing the road stud shall be Triflex R238 or Silkadur 42.

SPECIFICATION

Product identification	Rennicks UK Solar Active Road Stud SR 20
Description	Unidirectional or Bidirectional road stud with LED illumination
LED manufacturer's identification numbers	White – NSPL500DS (2500k-2800k) Red – C503B-RAN Amber – C503B-AAN Green – NEPE510JS
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	GT50/197/0001

Dated ..... 8 May 2015

Signed by authority of the Secretary of State

..... [redacted] .....

A Delegated Official of the Department for Transport

CERTIFIED TRUE COPY

[redacted]

8/5/15

DEPARTMENT FOR TRANSPORT

SR-20 - Solar Road Studs

Product introduction

- Solar panel with light level detector and battery energy storage
- Uni-directional or Bi-directional LED's (single or dual)

Electrical Characteristics	
Power	Battery (NI-MH)
Autonomy in the dark (NI-MH) after full charge	200 hours
Working temperature	-25°C to +85°C
Mechanical Characteristics	
Physical dimensions	Diameter 144mm Rising from road surface: 15 mm (to centre of parable) Installation depth into carriageway: 80mm
Stud body	Base – Aluminium Upper cap – Aluminium and Polycarbonate
Mechanical Resistance	20 Tons

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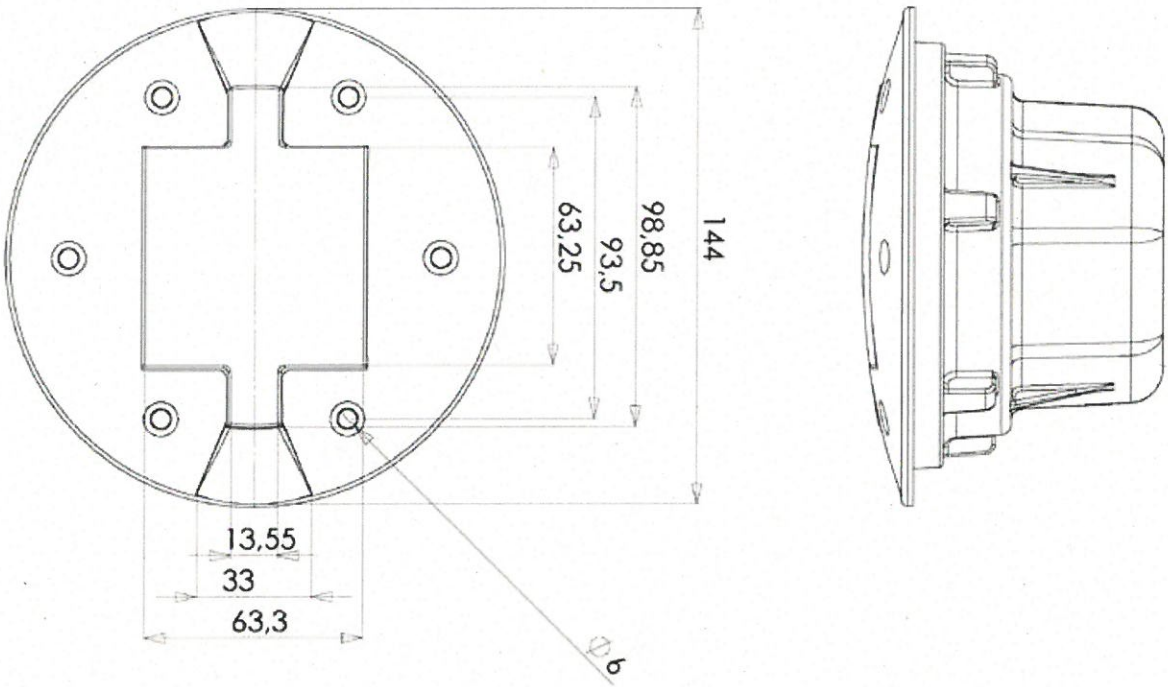
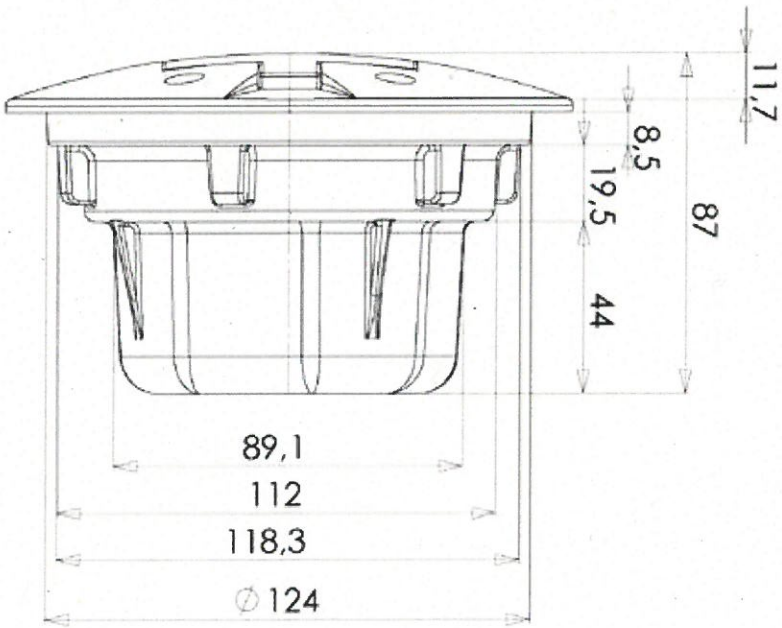
SR 20 dimensional views





Installation into carriageway

- As required by Chapter 5.
- Recommended fixative resin compounds; Silkadur 42 or Triflex R238. Refer to manufacturer's instructions for correct mixing and use.

1) Drill hole 80mm deep using a 130mm diameter bit.	
2) Remove all debris from inside hole and around the hole edge. 3) Dry the hole using a blow torch.	
4) Pour fixative resin sealing compound into each hole to approximately 50% of depth; 40mm from top of hole. 5) Orientate SR 20 to the direction of traffic and firmly press into the hole. 6) Gently tap top of stud with a rubber mallet to seat the stud correctly. 7) Remove excess fixative sealing compound. 8) Ensure shoulder of stud rest on carriageway surface. 9) Scoop up excess sealing compound from edges of stud. 10) Ensure no sealing compound is on surface of stud.	
11) Allow fixative to dry as manufacturer's instructions before traffic over the studs.	