



REMA

Road Studs – REMA Information Bulletin

Introduction:

Since their first use in the 1930's, road studs have become an essential traffic safety measure.

From the early days of the Cat's Eyes, which are still used to this day, road studs are to be found throughout the UK road network.

Road studs fulfil a very important function in providing guidance to drivers in conditions of darkness as well as wet weather and poor visibility.

Definition:

Road studs may be defined as retroreflective devices fixed to the surface of the road for the control, warning, guidance or information of road users. They are used in conjunction with white lining systems.

Types of Road Stud:

Fixing method: Inset depressible; Inset non-depressible; Surface mounted.

Performance: Passive – Retroreflecting; Active – Light emitting or Light emitting and retroreflective.

Reflector type: Glass; Plastic; Plastic with abrasion resistant layer

Regulations:

All road studs placed on any public road need to be either prescribed by regulation or specially authorised.

The UK regulations are the Traffic Signs Regulations and General Directions 2002 (TSR&GD). The Directions, which are a legal requirement, lay down the types, colours, dimensions and performance of road studs.

All road studs must successfully undergo road trials in order to comply with the TSR&GD.

All passive road studs must have product certification for both BS EN 1463 parts 1 and 2 and this certification must be in compliance with the TSR&GD to allow legal use in the UK.

Active road studs must undergo the testing and road trials specified within BS EN1463 parts 1 and 2 as well as additional compliance for water ingress, EMC and light output and are required to be approved for use by the Department for Transport Type Approval process in line with TSR&GD to allow legal use in the UK.

Guidance:

The Traffic Signs Manual Chapter 5 – Road Markings, gives important guidance on how to apply the requirements of the TSR&GD. Chapter 5 was completely revised and reissued in November 2003 to bring the guidance into line with the latest version of the TSR&GD.

Standards:*Road Studs - Product Standard*

BS EN 1463-1:1998 Road marking materials – Retroreflective road studs – Part 1: Initial performance requirements

Note: This standard is a harmonised European product standard which describes the procedure for the CE marking of road studs

Road Studs - Durability Standard

BS EN 1463-2:2000 Road marking materials – Retroreflective road studs – Part 2: Road test performance specifications

Road Markings - Supporting Standards

BS EN 13212:2001 Road marking materials - Requirements for factory production control

ENV 13459-1:1999 Road Marking Materials - Quality control - Part: 1 Sampling from storage and testing

REMA Road Studs Sub-Committee – Code of Practice

- To manufacture and/or supply compliant products
- To promote the use of compliant products in the market place
- To promote and improve awareness of applicable Standards and Best Practice
- To contribute to the development of good Standards and regulations
- To conform to Ethical Practices
- To adhere to the REMA Code of Practice
- To support and promote REMA as an association

REMA:

The Retroreflective Equipment Manufacturers Association (REMA) was founded over 30 years ago and is the trade association and co-ordinated voices for manufacturers of retroreflective traffic safety products which are used mainly on the highways but also, for example, at airports and industrial sites.

All REMA members are required to follow the REMA Constitution as well as the REMA Code of Practice. This ensures that products supplied by REMA members conform to the latest Standards, Regulations and Legislation - A guarantee of quality.

Further Information:

Website: www.rema.org.uk

Enquiries: info@rema.org.uk