

# GUIDE TO REFLECTIVE & FLUORESCENT REGULATIONS

## HG Reference Material...

### Chapter 8

Chapter 8 is a best practice guideline set out by the UK Highways within the Traffic Signs Manual, for providing works vehicles with visibility markings, when stopping on highways.

The grade of reflective should comply with the speed of road on which the vehicle is to be used. A Chapter 8 kit comprises chevron markings of alternate strips of reflective red to RA1 or micro-prismatic Red to R3B, with fluorescent yellow of 150mm width each at 45° to the horizontal.

Class R3B - Is recommended for higher speed roads.  
Class R2 - May be used to meet minimum retroreflective requirement for low-speed roads (under 40mph).  
Class R1 - Is not recommended for works vehicles.

Chapter 8 is best practice and not as yet legislation, and follows Health and Safety at Work guidelines to maintain safe practice at work. For full chapter 8 document see Department for Transport website at [www.dft.gov.uk](http://www.dft.gov.uk).

### ECE 104 Class C

ECE-104 Class C is a European Regulation setting out guidelines for the use of retro-reflective safety markings on heavy goods vehicles in use throughout Europe.

All HGVs over 7.5 tonnes and trailers over 3.5 tonnes operating in the UK and Europe are required by law to have compliant retro-reflective markings fitted to the rear and sides.

ECE-104 Class C Conspicuity Tape is typically 50mm width continuous tape for rigid sides, and in sections for flexible curtain sides. Class "C" conspicuity tapes is law for new registrations.

EN 12899-1:2007 Class RA1 and RA2 (R2)

EN 12899-1:2007 is the British Standards regulation for fixed, vertical road signs made of retro-reflective materials. Class RA2 - High Intensity vinyl (previously BS 873 Class 1). The standard material for the majority of road traffic signs, on the main highway. RA2 is for reflective and R2 prismatic.

Class RA1 - Engineering Grade vinyl (previously BS 873 Class 2). For use on permanent road traffic signs and delineators on less critical traffic signage.

### ECE-70

ECE 104 is the European regulation for Rear marking plates on trucks, trailers, buses and articulated trucks.

The United Nations issued the Regulation ECE 70 to regulate rear marking plates on trucks, trailers,

buses and articulated trucks in order to get the E-homologation mark, issued by the authorities to the manufacturer if the manufactured markers meet the Regulation ECE no. 70.

ECE-70 is typically superseded by the requirements of ECE-104.

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