

3M Traffic Safety Systems
3M™ Marker Series 290 Reflecting Road Stud



Providing
quality, durability
& performance

High-performance delineation guides drivers to greater safety

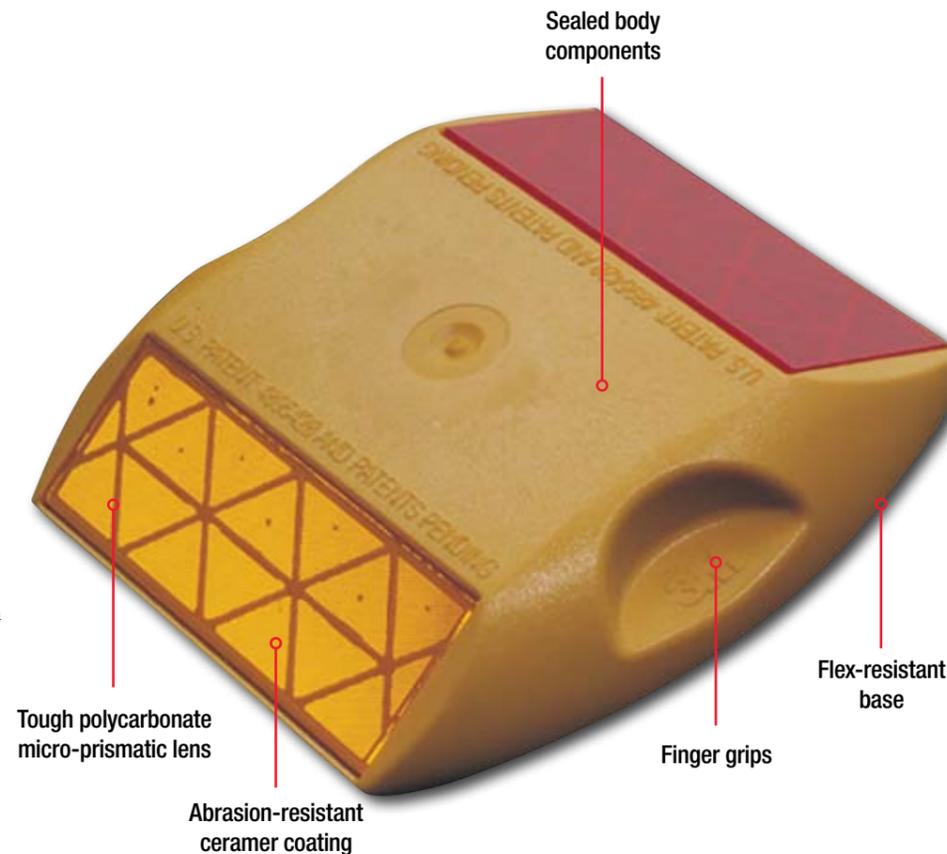
The result of a continuous search for ways to improve road safety, the 3M™ Marker Series 290 is an improved permanent surface mounted reflecting road stud that has been approved by the Department for Transport for use in any position on all road surfaces. 3M has combined innovative technologies such as advanced optical design, hard ceramer coatings and computer-aided construction design to produce a highly visible, long-lasting system that stands a cut above other road studs.

Consistently bright and visible

3M Series 290 studs act as extremely valuable lining supplements. They compliment road markings and stand out at night to alert motorists to road changes such as bends and exits and improve lane line guidance. Designed for application on all asphalt and concrete type road surfaces, these markers provide highly effective, long-life visibility - at night and particularly in wet weather.

Available in white, amber, red and green, the marker's high-performance lens yields high brightness retroreflected light when illuminated by car headlights, with reflective values in excess of the requirements of BS EN1463 Part 1.

Series 290 studs feature a tough polycarbonate lens with microprismatic optical technology. This ceramer-coated lens is highly resistant to the abrasion and cracking, which can reduce the performance of a standard lens. In effect, the marker yields greater durability, increased brightness and high-retained retroreflectivity.



Tough construction gives long-lasting performance

The computer-aided body design combined with innovative materials give the Series 290 stud its strength. Manufactured from a high-impact-resistant polycarbonate resin, the inner-ribbed contour of the stud is shaped to dissipate tyre impact, increase strength and reduce damage. The tough polycarbonate reflective lens is coated with a superior protective material that combines ceramic and polymeric elements, adding more resistance to abrasion. The result is a marker that demonstrates high-impact strength and holds up longer on today's heavily trafficked roads and motorways.

Shape & weight make application easier

Moulded into its superior body design, finger grips aid the application process. The Series 290 stud is lightweight and is applied with hot melt bitumen adhesive. 3M offer a full range of road marking products and technical help to assist you with application. For more information on 3M's road marking products, contact your 3M Traffic Safety Systems representative.

301/290 3M™ Marker Series Road Stud

The Embedded 301 Inset Reflecting Roadstud

The Series 290 stud is also available in a 301 metal housing base. It offers high value night-time reflectivity combined with long life performance.

RoadCraft Safety Products Ltd and Fleming & Company are the principal UK distributors of 3M road studs and have been in partnership for many years.

RoadCraft Safety Products Ltd and Fleming & Company have taken the highly successful 3M 290 surface applied road stud and combined it with their robust 301 base. This creates an innovative roadstud that will give many years of high performance even on roads with exceptionally heavy traffic.

Increased brightness, excellent wet reflectivity and high retained retroreflectivity provide long-term night time visibility

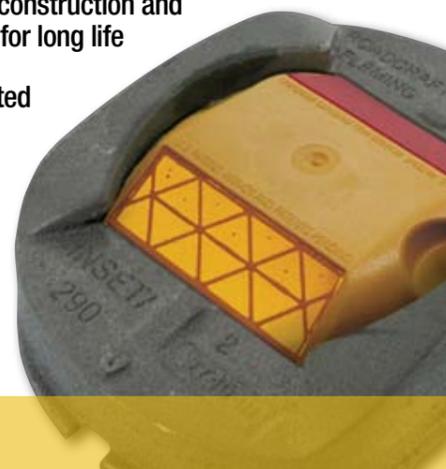


The Series 290 stud gives maximum impact resistance. When tested according to ASTM standards, the marker body displays no cracking or breakage using a 1000 gm weight from a height of 1 metre.

Superior design provides reliable visibility

Benefits

- Installed using traditional vertical milling equipment
- Supplied complete – reflector already fitted
- Durable – robust construction and intelligent design for long life
- Reflectors protected with cast iron guide rails
- Easy installation



Specifications

3M 290 studs are classified as being Type P3A studs, (i.e. Permanent, Plastic reflector with abrasion resistant layer, non-depressible) and Class PRP1 Type 2 retroreflectors according to EN1463 part 1:1998. 3M 290 studs achieved the highest possible classifications in road test performance as per EN1463 part 2:2000; Class S1 (Road Presence) and Class R1 (Night-time visibility).

3M is a diversified manufacturer of industrial and consumer products with an outstanding reputation for quality and service. The Traffic Safety Systems Group of 3M pioneered the use of retroreflective materials for the traffic safety industry and has for over 70 years produced innovative and successful traffic safety products.

Distributed by:

RoadCraft Safety Products Ltd

Knightcott Industrial Estate
Banwell
Somerset
BS29 6JN

Tel: 01934 825850

Fax: 01934 823106

Email: Sales@roadcraft.com

www.roadstuds.co.uk



Fleming & Company

Woodhead Road
South Nitshill
Glasgow
G53 7NX

Tel: 0141 881 8155

Fax: 0141 881 8268

Email: sales@flemmingandcompany.co.uk

www.roadstuds.co.uk



Traffic Safety Systems 3M United Kingdom plc

3M Centre
Cain Road, Bracknell
Berkshire RG12 8HT
Tel: 01344 857 950
Fax: 01344 857 970
www.3M.co.uk/traffic

3M Sales Office

28 Great Jackson Street
Manchester
M15 4PA
Sales Office Tel: 0161 237 6394
Free Fax: 0800 378 127

Traffic Safety Systems 3M Ireland Limited

The Iveagh Building
The Park, Carrickmines
Dublin 18
Tel: 01 280 3555
Fax: 01 280 3849