

Composite Road Plate System for Horizontal Road Crossings



The Radlock Carriageway System is a lockable composite road plating system comprising of inner and end composite road plates with flexible edges



- ✓ Anti-slip surface design
- ✓ Light weight
- ✓ Highly visible
- ✓ Reduced risk of theft



- ✓ Approved by TRL (TLRN)
- ✓ National Grid Best Practice
- ✓ Recognised by NJUG
- ✓ Recommended by TfL/DfT



- ✓ Re-open lane quickly
- ✓ No waiting for specialist equipment
- ✓ Quick to deploy
- ✓ Fast to lock down and secure



TESTED AND APPROVED AT 30mph
by TRL in their report PPR654 'Reducing congestion from road works'



The composite road plates are held in line by integral steel hooks, which hold the boards closely together, and are secured with the Radlock Series 15 locking mechanisms, which hold the plates in place by operating the extending legs into the sides of an excavated trench.

Road Crossing pack:

(Pack contains the following boards, which would typically provide sufficient for a horizontal road crossing)

- 12 no. Radlock Series 15 Locking Mechanism
- 10 no. 1516mm x 590mm inner plates
- 2 no. 1516mm x 790mm end plates

Center board pack:

(Pack contains inner plates only)

- 12 no. Radlock Series 15 Locking Mechanism
- 12 no. 1516mm x 590mm Inner Plates



Equipment required:

- Turning mechanism or wrench c/w 24mm Socket
- Manhole lifting key (2No.)
- Check the condition of each Radlock Series 15 locking mechanism and each composite road plate prior to installation.
- Maximum vehicle speed over the system is 30mph (recommended safe max 10mph).
- Risk Assessments and Method Statements must be agreed with Site Supervisor and 'RAMP' signs may be required to warn motorists.
- All Radlock Locking mechanisms must be regularly greased on the threaded bar to ensure ease of use.

Safety guidelines:

- Maximum Trench Width 700mm.
- Maximum vehicle weight 44000kg - 5750kg Single Wheel Load.
- Each Radlock Series 15 locking mechanism weighs 5.2kg.
- Each inner composite road plate weighs 44kg and can be lifted using manhole keys by two operatives.
- Each end composite road plate weighs 48kg and can be lifted using manhole keys by two operatives.