

# Unipart Rail and Cairn Cross Civil Engineering's Track Pan system cleans up!

Not only can accidental spills in railway facilities cause enormous harm to the environment, they can also pose long-term health hazards and possible damage to the railway infrastructure. In addition to the effects of spill and contamination, the costs and reputation damage caused by such spills can be very expensive and, in some cases, irrecoverable.

Even when utmost care and attention is taken, accidental spills can still occur and these effects, coupled with general leakage from rolling stock, can be very difficult to overcome.

## Track Pan is the solution!

Working with one of Network Rail's principal contractor system installers - Cairn Cross Civil Engineering - Unipart Rail has designed and developed a solution to this long-standing problem. The Unipart Rail 'Track Pan' system is considered the best available technology offering protection from spills by collecting fluids and other contaminants and then transferring them to a proper waste treatment system.

All assembly hardware is supplied, and the pans simply bolt down to the existing railway sleepers. It can be put into service within a few hours of delivery and, if necessary, can be relocated to another location if depot operations change. Each unit is manufactured to exacting standards, providing the maximum self-containing capacity whilst maintaining railway clearance standards. As it is a modular system, additional sections can be easily added or reconfigured and, if a section becomes damaged for any reason, its unique design means that only the damaged sections need to be replaced.

Installations on descending gradients are undertaken due to the adjustable mounting feet design. Installations around curves are not a problem with all pan sections fitting simply around all possible track curvatures with very little modification required. There is no effect on rail joints and the system allows quick access to the ballast and infrastructure beneath the pan, therefore not affecting track inspection procedures.

Benefits of the Unipart Rail Track Pan system are:

■ **Durable construction** - The heavy duty GRP construction offers excellent protection from impact damage, and the pan system will not dent, deform or crack like alternative steel and concrete constructions. The GRP also eliminates the problem of corrosion associated with many alternatives.

■ **Excellent protection from spills and contamination** - The Track Pan system fully encompasses the whole area between and



adjacent to the rails, therefore capturing all spills and leaks from both the rolling stock and fluid carry off. The whole Track Pan is sealed against the rails preventing any possibility of leakage to ground from the pan itself.

Track Pan has a large capacity for holding fluid within, in addition to the incorporated drain, therefore providing an effective buffer in the case of large spills or heavy rainfall.

■ **Inexpensive** - Due to the system design and the engineered materials used, the unit cost is inexpensive in comparison to traditional concrete and steel solutions. Labour costs compared with traditional solutions are also much lower.

■ **Easy to install** - Due to the modular design, installation is very simple and extremely quick. No specialist tooling is required and depot down time is greatly reduced due to no setting time being required.

■ **Low maintenance** - The GRP construction makes the system very robust, reducing wear and maintenance. The built-in drainage points also remove the necessity for pumping and/or manual drainage.

■ **No disturbance to track during installation** - The system is designed to be installed without having to disturb the tracks. Built into the pan is the ability to easily inspect the infrastructure without having to remove the system. The Track Pan also removes the necessity for clear acrylic

windows to be installed within the pan for inspection, which historically glaze very quickly in situ and render themselves useless.

■ **Safety** - Reduces risk of slipping. Incorporated into the design is a removable grated walkway which prevents the build-up of fluids and oils, greatly reducing the risk of slips and falls - one of the biggest causes of accidents within the workplace.

■ **Built-in drainage** - The system incorporates a built-in fall and drainage point to allow the pan to 'self empty'. This prevents the possibility of over-flow and the necessity of regular maintenance pumping.

■ **Full engineering on-site support** - Unipart Rail and Cairn Cross Civil Engineering provide full on-site support including: design, installation and full project management through to operational assistance, if required.

## Locations

Track Pan is installed at filling stations for diesel and gasoline, graffiti and train wash stations, loading stations for oil/chemicals and terminus stations. The system can be used with success in all areas where there is a risk of polluting the ground with chemicals, oil, diesel or contaminated water.

It also complies with Network Rail standards for environmental contamination requirements and reduces the possibility of spillage fines.

