

**SHOWCASE
NETWORK RAIL**

Kwik-klik
FAST FIT TEMPORARY HOARDING SYSTEMS



Cannon Street, London



The Shard, London Bridge, SE1

Kwik-Klik is an approved supplier of modular hoarding systems for Network Rail.

We have a versatile range of systems and fixings to suit every location and they quickly create secure work areas within safe, robust and smart perimeter hoardings.

We have developed two unique **100% recycled PVC panel systems** in Network Rail blue/grey colours and these are being used to provide bespoke temporary hoardings during station upgrades throughout the UK.

Our *Ultraspan* and *Ultraspan Extra* panels are now exclusively supplied in the Network Rail R11 colour. They can be attached quickly and securely to a variety of substructures. These include: scaffold poles, Heras fencing and existing timber hoardings which are showing signs of wear and tear.

Corners can be shaped to optimise both work space on the site and also passenger or pedestrian safety (on the public side of the hoarding). The lightweight panels can be cut to size on site to accommodate immovable fittings, cables, pipes, beams etc. or to incorporate windows.

Our systems are very cost-effective because they can be quickly dismantled, re-located and re-used on site during a multi-phase project.

Our systems have also passed wind and impact tests stipulated by Network Rail, which makes them safe to use on platforms at mainline stations.

The panels help to retain a professional appearance at stations.



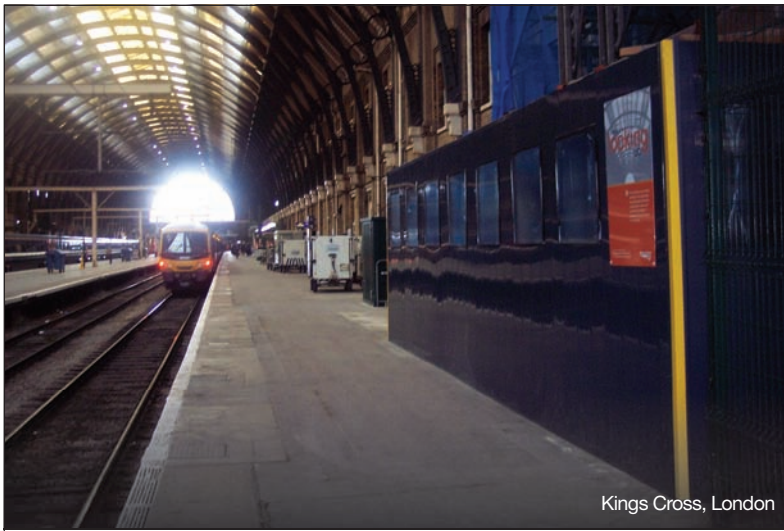
Edinburgh Waverley



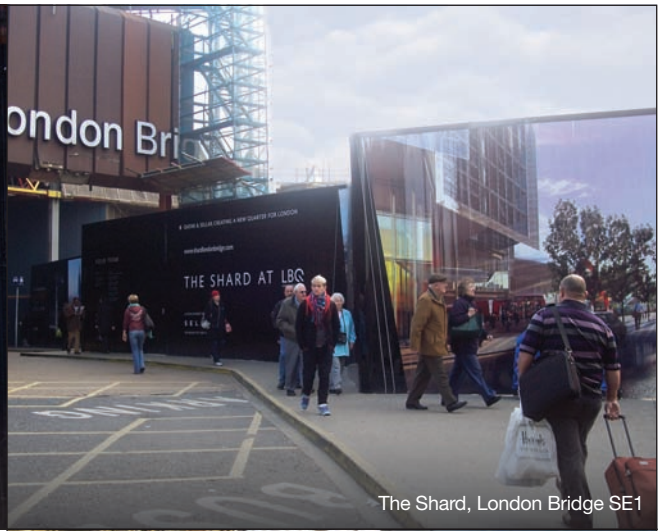
Birmingham New Street

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Kings Cross, London



The Shard, London Bridge SE1



Ultraspan and Ultraspan Extra

We believe our systems provide a huge improvement on timber and steel hoardings which can be heavy, unsightly and difficult to re-locate.

Our hoardings also create a smooth and even finish which makes the customer-facing façade an ideal surface for attaching temporary signage and promotional vinyls. Matching trims also make a perfect finish and create a neat and professional, public-facing hoarding for the duration of each project.

The key benefits of *Ultraspan* and *Ultraspan Extra* are:

- 100% recycled PVC – low carbon footprint
- pristine finish – bright, clean and safe
- easy fit modular systems
- re-usable and re-locatable
- available in Network Rail dark and light grey
- stable and robust – wind and impact tested
- single damaged panels are easy to replace
- panels can last over 3 years and several uses
- panels are 100% recyclable at the end of their life.



Edinburgh Waverley



The Shard, London Bridge SE1



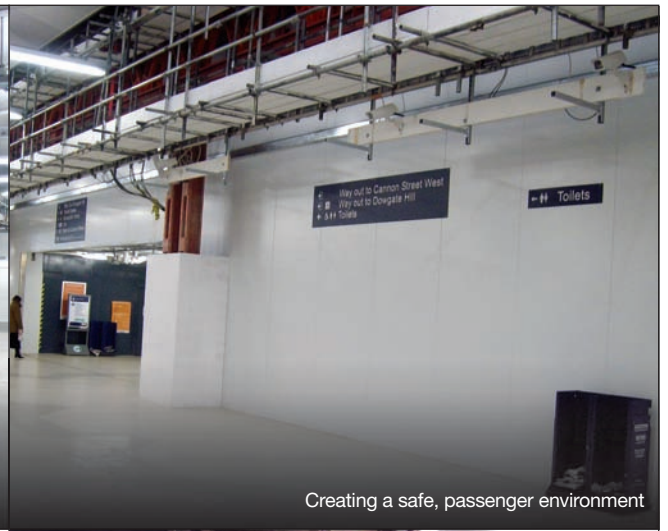
Kings Cross, London

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The main concourse



Creating a safe, passenger environment



Cannon Street Station, London

One of the biggest Network Rail projects **Kwik-Klik** has been involved in is Cannon Street station.

Our hoardings have created new dividing walls to allow extensive demolition and construction work to take place without disrupting rail services and inconveniencing passengers.

A range of panels have been used to create large and small hoardings along platforms, in the main station concourse and at external entrances.

The heavyweight *Soundmaster* panels are 100mm thick and up to 7.5 metres in height. They provide a 1 hour fire barrier and suppress noise generated by the major works behind the hoarding.

We installed panels along the length of a platform and also extensively in the main concourse of the station. Panels were cut to size on the platform and lifted into place using an Oktopus KI-B forklift system which uses suction pads to grip the panels and a forklift to manoeuvre them into position.

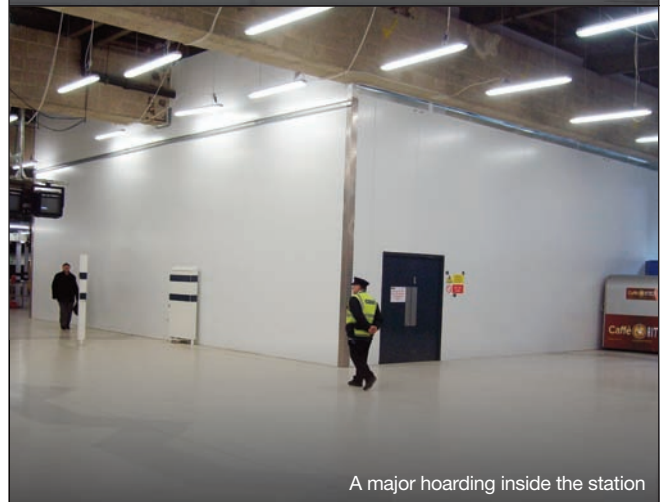
The panels in the main concourse ensure that the station retains a clean and professional appearance throughout the duration of major building and refurbishment work.



7m hoarding along a main platform



A pedestrian side entrance



A major hoarding inside the station

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An early site view from above the hoarding



Professional branding and graphics



The Shard, London Bridge, SE1

Kwik-Klik has installed extensive perimeter hoardings around Network Rail's London Bridge site in SE1, where The Shard is being built.

The *Ultraspan Extra* panels are attached to a configuration of steelwork including heavy duty steel uprights which were concreted into the ground. Diagonal steel supports and horizontal scaffold poles ensure that a robust and secure site is created by the panels which are 3 metres high.

Stunning graphics which include visual depictions of the new building are used to promote the development. These have created a colourful and attractive environment for pedestrians and helped to minimise the perceived level of disruption caused to commuters during the build programme.

The graphics used at the The Shard illustrate the potential commercial value of Network Rail hoardings in busy commutersites throughout the UK.

Kwik-Klik is also installing bespoke welfare facilities, including temporary offices, canteens, changing rooms and WCs on several floors of The Shard. As construction and trade teams move on to higher floors, the temporary facilities can be dismantled and re-located higher in the building to ensure that time isn't wasted commuting to lower floors.



The building rises above the hoarding



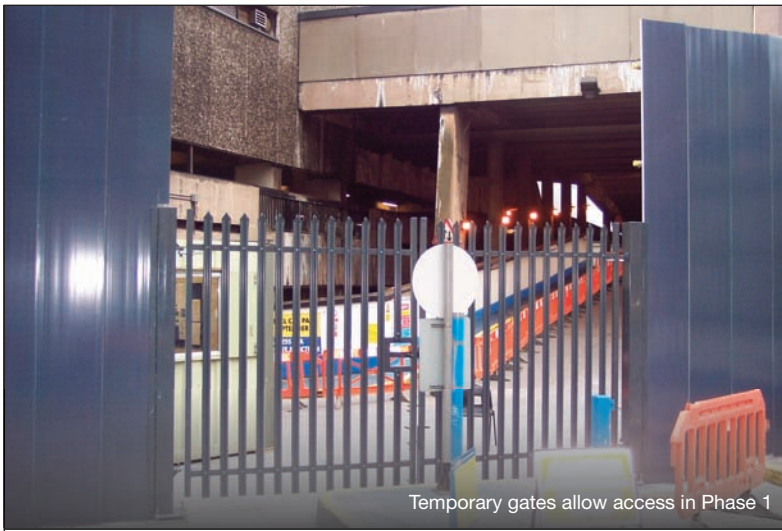
Welfare facilities on the 7th Floor



The Shard towers over the hoarding

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Temporary gates allow access in Phase 1



The car park hoarding in Phase 1



Birmingham New Street

We were involved in three construction phases at Birmingham New Street Station.

The first phase included erecting Network Rail grey *Ultraspan Extra* panels to form a screen around the perimeter of the multi-storey car park as construction work began.

In the second phase, our *Ultrahord* system was used on the mainline platform within the station. *Ultrahord* uses sturdy polythene bases which can be filled with water for added stability and impact resistance. The versatile bases can be re-used on a variety of projects including creating traffic lanes.

The system passed both wind and impact resistance tests before being granted Network Rail approval for use on platforms where high speed trains can generate considerable air flow pressures.

The vertical panels used with the *Ultrahord* system include powder-coated aluminium as well as our 100% recycled plastic *Ultraspan* panels.

In the third phase we also installed *Ultraspan Extra* hoardings around the Pallisades parade of shops along the station's exterior face.



Ultrahord on the main platform in Phase 2



Clean, sturdy and safe



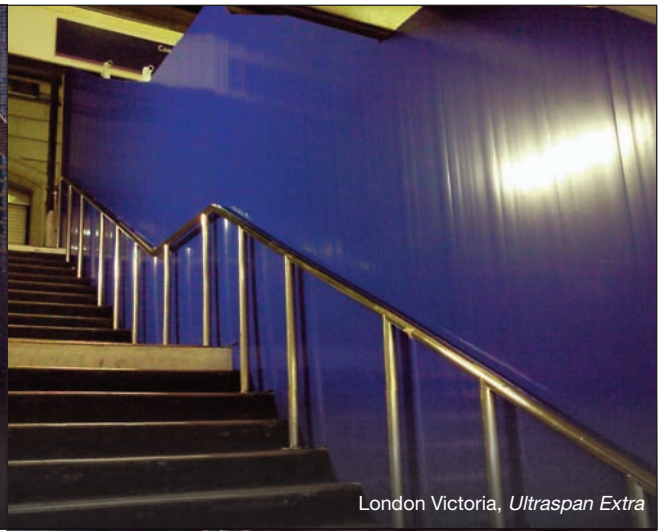
Shop facades are screened during Phase 3

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Liverpool Street, London, *Ultraspan Extra*



London Victoria, *Ultraspan Extra*



More mainline station projects

At Liverpool Street we were asked to install a temporary hoarding in the pedestrian subway leading to the station.

At Victoria Station we were required to screen off a stairway during refurbishment work. The photograph (above right) shows how our versatile *Ultraspan Extra* panels can be cut to size to provide a bespoke continuous hoarding on a steep slope.

At **Kings Cross** we were asked to develop a new **counterbalanced support system** support system for our hoardings which will ensure that **no drilling** is needed into the rail platforms. The reason for this is that, even after carrying out CAT scans, there is a danger of disturbing cables or wiring in such an old station like Kings Cross, which has been modified over many generations.

Our solution has been to source easily manoeuvrable 480 kg concrete counterbalance weights which interlock with our scaffold pole framework and provide a robust, free-standing hoarding that sits on top of the platform.

The blocks have eyes for lifting by fork lift and can be easily re-positioned. The hoarding can withstand a Force 10 gale as well as impacts from low-speed vehicles using the platforms.

The work taking place behind our hoardings at Kings Cross involves installing new lifts and escalators. The contractors are Goldris, Vinci, Carillion and Construction Total Solutions.



Kings Cross, counterbalanced support system



The rear view showing the counterweights and baffles



The hoardings create safe work areas on the platform

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Freestanding with high security counterweights



Bolt-down systems

Fixings

We can offer five standardised fixing systems which will ensure Network Rail has a simple support fixing solution to suit all site conditions (e.g. platform, concourse, external façade, brownfield, high security, constricted city centre site, sloping sites etc.) All systems are easy to install.

- 1. Freestanding support systems** – These are suitable for sites where the ground is not to be disturbed. Our tried and tested steel supporting legs can use sandbags, metal weights or concrete blocks as counter weights to provide stability and security in line with site conditions.
- 2. Bolt-down systems** – These systems are anchored into the ground using steel bolts, clips and robust steel pole configurations.
- 3. Concrete footings** – These systems uses vertical steel girders or steel poles which are sunk into concrete within plastic sleeves to enable easy and rapid dismantling.
- 4. Cup-lock or standard scaffolding** – When an existing scaffolding rig is in place, *Ultraspan* panels can be attached to it quickly and safely. This protects the public from the steelwork without compromising the safety of contractors who are working above.
- 5. Timber supports** – because *Ultraspan* panels can be drilled and screwed into almost any substrate, they can be affixed to timber supports. However, we only recommend this option when suitable and robust timber supports are already in place on site and when removing them would incur additional expense. Otherwise, we would choose the most suitable eco-friendly and cost-effective fixing system from those above.



Steel frames sunk into concrete



Cup lock and standard scaffolding

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Scaffolding framework