

Press Ref: 29004

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Attention: Immediate

## Stage presence



This Technorail staging met challenging spatial and loadbearing needs with a very modular steel solution offering fast and easy installation.

**Assembled from over 200 linear metres of steel beams, columns, hand railing and other sections of structural steelwork, and weighing approx. 4 tonnes, this substantial staging from Technorail went together without a hitch in one 10-hour night-shift, thanks to its modular design.**

The staging supports an 8.4m long by 2.4m wide and 3m high REB (relocatable equipment building) housing control equipment for new signalling at Lincoln.

It has been installed as part of the £55M Lincoln Station Area Signalling Renewals, undertaken by principal contractor, Westinghouse Rail Systems Ltd, for Network Rail. As well as replacement of life-expired, semaphore style signalling, track improvements have also been made and line-speeds through central Lincoln have been increased.

As the civils contractor, Global Rail Construction Ltd undertook the civils work to prepare bases and stagings for the new trackside equipment.

### *Embankment*

The site, near to Potterhanworth, posed the challenge of supporting the enormous REB on a high and uneven embankment.

With the fully installed REB weighing over 3.5 tonnes with equipment, the staging was required to meet load-bearing design criteria of 11kN/m. This includes a comfortable safety margin for personnel and other extraordinary loadings.

Technorail's designers needed to resolve the required load-bearing function in a complex configuration of beams, columns and supports to accommodate the sloped site, as well as ensuring the huge staging was both transportable and buildable.

Measuring 11.4m by 4.1m on plan, with a maximum height, from bottom of support column to top of handrail, of 2.95m, the staging was designed in 5 key sections or bays. Three identical bays form the central body of the staging, with handed but still modular bays at the end.

### *Straightforward*

Don Osborn, Operations Manager at Global Rail Construction, said: "We were able to install the staging without any problems in a single night possession. The modular design meant assembly was very straightforward, requiring no specialist training or skilled steel erectors to come in."

Using a road-railer with hoist, a small installation team was able to assemble the mighty staging, bolting its twelve main supporting legs to concrete pads, with the REB bolting directly to the staging's support beams in four places.

The staging provides integral cable ducts to provide protection to services into the building. The grid level of the finished platform met fine tolerances to leave a low door threshold to ease entry into the REB.

The structure was finished with a hot dip post-galvanised Duragalv zinc coating for long life durability.

### **ENDS**

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