

## Staircases

Premier Projects designs appropriate staircases into each project and provides advice regarding relevant Building Regulations. Recently introduced legislation, for example, requires that at least one Ambulant Disabled Staircase (ADS) complying with Approved Document M of the Building Regulations should be fitted to mezzanine floors used for storage and that, in addition, a lift should be provided for office use.

Premier Projects approved inspector can advise you on the regulations and show those instances where a simpler Type K staircase may be an acceptable alternative or situations where a single ADS may alleviate the need for a lift.

All Premier Projects staircases are powder coated to give a highly durable finish with excellent gloss retention.



## Edge Protection System

Premier Projects unique edge-protection system provides a functional and very neat solution that integrates both the handrail and toe plate into the handrail post.

The 100mm high flat-sided oval profile of the steel toe plate slots into the centre of the handrail post providing a robust edge with no sharp edges or bolts on show.

The toe plate conforms to BS5395: Part 3 and is designed to sustain a characteristic uniformly distributed imposed horizontal loading of 1.0kN/m and a characteristic point load of 0.5kN.

The Toe Plate is powder coated to give a highly durable finish with excellent gloss retention.

The 1120mm high rolled hollow section handrail posts are set at 1500mm centres and include tubular hand and knee rails running through the centre of the post giving a bolt-free finish. The handrail is designed to safely sustain a minimum characteristic imposed horizontal line loading of 0.74kN/m.

The rails and posts are powder coated to give a highly durable finish with excellent gloss retention.





## Powder Coated Finish

All Premier Projects mezzanine floors include high quality powder coated finishes to ancillary items, including staircases, handrail posts and tubes, steel kickplates, safety gates, sliding access gates and swing gates within the standard specification.

Powder coating provides high corrosion resistance, optimum mechanical properties and excellent gloss retention.

Available in a wide range of colours, Premier Projects powder coated ancillaries ensure that your new mezzanine can reflect your corporate colour scheme at no extra cost.

All beams, columns and landing frames will be finished in graphite grey full gloss paint as standard, although other colours are available on request.



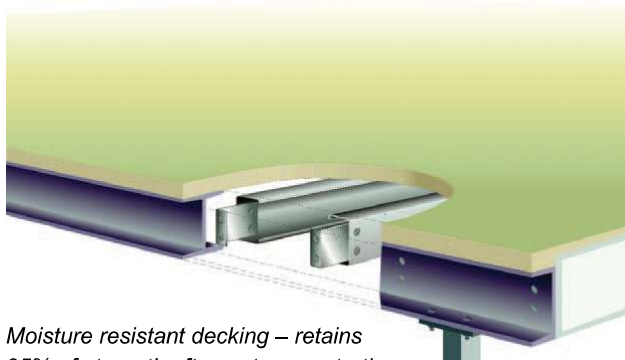
## BRE Digest 437 - Industrial Platform Floors: Mezzanine and Raised Storage

As the purchaser of a mezzanine floor you may not be aware that the Government, due to persistent reports of failure in design and performance of mezzanine platforms, has just published its minimum design guidance for industrial platforms known as Digest 437. This guidance is the result of two years consultation with structural engineers and the mezzanine floor industry.

The Digest establishes a new improved minimum design standard, to give the user a 'fit for purpose' and safe solution. Any deviation from the recommendations contained in the Digest may save money but will reduce performance and could put the user at risk through failure of the platform. **All Premier Projects mezzanine floors meet the requirements of Digest 437 within their standard specification.**

The key changes introduced in Digest 437:

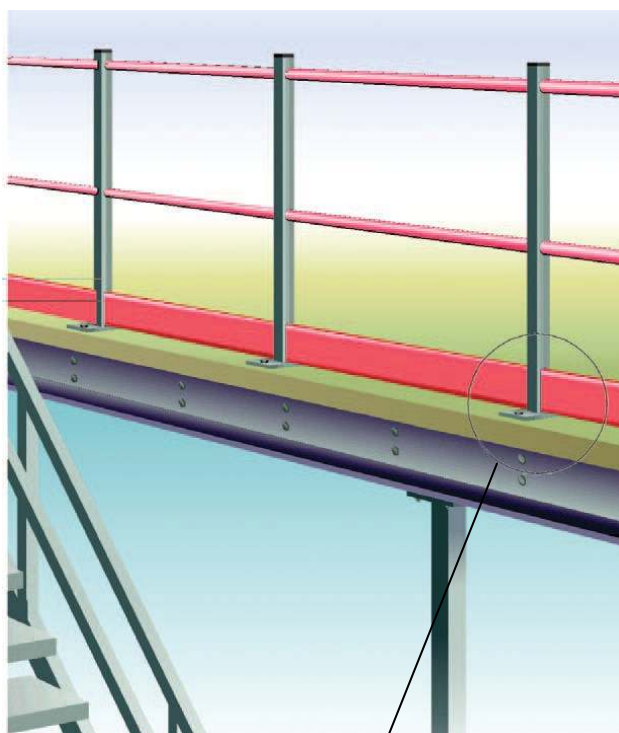
- **Chipboard Decking:** The new document insists on P5 or P7 particle board. These are both *moisture resistant boards*. BRE Digest 437 also introduces new reduced deflection design criteria for decking design, reducing the 'bounce' feel to the mezzanine floor.



Moisture resistant decking – retains 95% of strength after water penetration

- **Mezzanine Stability:** A minimum horizontal force of 2% of the total load should be assumed to be acting at the decking level – this percentage is four times greater than that required using the previous design method, BS5950:Part1. This has a significant impact on column design and bracing, but obviously improves the stability of the structure and provides a fit for purpose design for industrial platforms.

- **Handrail and Edge Protection:** Where toe plates are provided they should be robust and imperforate, and should extend to at least 100mm above the finished platform surface. The design of the guarding should preferably provide for anchorage fixings to be connected to the supporting steel structure. **Reliance should not be assumed on the integrity of the decking for support unless verified by design calculations or testing.**



Edge protection system

