

Upper Deck Floor Construction

Stuarts Industrial Flooring

Fast, flexible and **efficient**
concrete installation to upper
floors - a full **supply and fix**
package backed by **expert**
technical **know-how**



Stuarts
Industrial Flooring Ltd.

Composite Floor Construction

Count on our experience



As the leading in-situ concrete flooring contractor in the UK, we install large areas of suspended slabs to create composite concrete upper floors – both on pre-cast concrete planks and steel decking.

We're called on right across the country, for applications ranging from large scale commercial, industrial and retail developments to many smaller projects. And we apply the same high level of commitment to quality and service - whether the programme involves just a few hundred square metres, or in excess of fifty thousand.



17 Storeys up requires the the UK's largest concrete pump

Our 150 years' experience of in-situ concrete flooring, casting slabs on both ground and upper floors, means that you can rely completely on our flexible and professional approach – even for the most challenging programmes and demanding projects

Safety first

As ever, and particularly when working at height, health and safety needs are of paramount importance when working on upper floor slabs. Our CSCS accredited workforce is fully supported by full time, in-house health, safety and training personnel.

Technical strengths

As steel decking in upper floor construction has grown in popularity in recent years - thanks to its structural efficiency and speed of construction - we've further developed our own extensive technical knowledge, skills and expertise to match. As members of the advisory committee behind the Concrete Society publication Composite concrete slabs on steel decking 2008 (in association with the ACIFC) we're involved in constant review and development of best practice.

We offer

A full supply and fix package, for the concrete works, including all steel reinforcement (fabric, fibre or loose bar), covers a wide range of applications:

- Steel decking including:
 - Corus ComFlor
 - Richard Lees
 - Structural Metal Deck
 - Wards Multideck
- Hanson Omnia planks
- Pre-cast concrete planks

We provide a surface finish to meet specific project requirements, and to the same high standards as our in-situ ground floor slabs.

Composite concrete slabs on steel decking

An advantage in constructing composite slabs on steel decking is that temporary formwork is not required. Also, compared to conventional reinforced concrete suspended slabs, composite slabs contain low quantities of conventional reinforcement, are relatively thin and hence have a low self-weight.



Top ten campus

Working under a partnering agreement with main contractor Miller Construction, we laid the flooring for 800 modern student residences with ensuite facilities at the brand new Queen Margaret University College campus in Edinburgh – recently named one of the top ten modern universities. With nine accommodation blocks, each with three or four metal deck upper floors, the total area of slabs cast was around 6,500m². We needed to be flexible to meet the contractor's programme, with concrete pours to more than one level required every day. Our team also post-cored through completed slabs to provide accuracy for the many service penetrations. Through careful co-ordination between various trades, the works were completed ahead of time and within budget.

Seventeen floors up

Working for Balfour Beatty Construction, we installed a 600m² composite slab on steel decking on the 17th floor of Brindley House - a converted residential development with an upper floor extension in a prestigious development area in the centre of Birmingham. Originally designed as a conventional steel fabric reinforced composite floor slab on steel decking, site constraints called for a re-design by the contract engineers. We installed a Bekaerts steel fibre reinforced slab (using their 65/60 steel fibre) onto a Wards Multideck steel decking system, in conjunction with a 63m mobile concrete pump – ensuring that the project was delivered within budget and to programme.



17 floors up - penthouse floor under construction



Our techniques & services

- Large pour ground bearing floors
- Large pour 'suspended' pile supported floors
- High tolerance flooring
- External concrete roadways
- Upper floor construction on concrete planks and metal decks
- Traditional and flowing screeds
- Specialist plant and occupational training

Our products

- Steel bar and fabric reinforced floors
- Extensia concrete
- Steel fibre reinforced floors
- Floor heating and cooling

About Stuarts

Experts in industrial flooring since the mid 1800's, we're the UK market leader in in-situ concrete flooring and the largest independent UK contractor in our sector. Privately owned, we deliver two million square metres of precision concrete floor every year through our nationwide team of more than 165 operatives, nine laser screed machines and associated plant. Equally at home on ground, upper floor and external concrete projects, we invest continually in new innovations to bring our customers the best.

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