



The UK's No. 1 manufacturer of mezzanine floors

davicon
mezzanine floors

YOUR PLATFORM FOR FUTURE GROWTH



Case Study

Clipper Selby Project for ASOS



for



ASOS are a unique online fashion destination visited by millions of twenty-something shoppers and fashion-lovers around the world every day.

ASOS sell their own label and other world-renowned brands at asos.com, and give individuals and boutiques the chance to sell, new and pre-worn fashion, through our Marketplace channel.

And it's not just about shopping. Our customers use the site's Fashion Finder section to create and share with each other ideas and inspiration about outfits and trends and to work out their own personal style.

The fashion-focused competitions, games, news, and feature articles we publish on asos.com and on mobile apps, or through social networks, are updated daily. They help give our target customers an online experience they won't find anywhere else on the planet.



Clipper Logistics Limited was founded in 1992 and is now one of the UK's leading independent logistics companies with a turnover of £200 million.

Clipper provides its customers with unique logistics solutions to suit their needs. The Group's willingness to challenge the status quo and quickly embrace change makes it an attractive choice for retailers and provides invaluable expertise in fashion and high-value logistics. Clipper have an enviable position as they are a highly regarded retail logistics, and market leading e-fulfilment, provider, making them an ideal partner in the multi-channel retail arena.

With the Group's principles of reliability and flexibility, and through a series of handpicked strategic acquisitions and organic growth, Clipper has created a new breed of logistics and transportation solution providers.



Shed 36 in April 2012

THE CHALLENGE

Clipper Logistics had been asked to provide the returns handling centre to support the UK distribution system for ASOS. Clipper has developed a system that is flexible enough to meet the demands of ASOS's returns.

Clipper Logistics identified an existing site at Selby, Yorkshire that could house the client's processes.

THE SOLUTION

Clipper Logistics teamed up with Davicon to create almost 15,000 square feet of additional warehousing space at the Selby distribution centre. The facility has been developed to house a dynamic storage volume in roll cages and a conveyor orientated handling system. Davicon supplied a single mezzanine solution that forms an integral part of the materials handling solution and provides the working space for the conveyor system.

Davicon provided a complete design and build solution including the supply and installation of the floors and staircases, as well as working closely with Clipper Logistics to develop the necessary fire strategy. The mezzanine structure covers a floor area of 48 metres by 29 metres within the facility the single level provides a total decked area of approximately 1,400 sq. m, creating an overall storage and processing area.

The installation has been developed to support future changes to operational requirements and enable the upgrade of the installed materials handling system.

Davicon worked in partnership with the main contractor, along with other key suppliers, to effectively plan the construction process to meet the strict deadlines of Clipper Logistics and its customer. As a result, the mezzanine floor installation was completed in just 3 weeks. 1 week ahead of schedule and the overall project was completed in just 7 weeks on schedule.



DESIGN

| | | |
|-----------------------|---|---|
| Platform Size | : | 48m x 29m x 1 Level |
| Column Grid | : | 6.414m x 3.624m, generally |
| Height | : | 4.118m top of floor/3.775m clear under |
| Construction Depth | : | 343mm |
| Decking | : | 38mm Particle Board (TG2, Grade C, standard type P6) |
| Loads | : | Imposed load - 4.800 kN/m ² U.D.L. plus Dead load (mezzanine self weight) - 0.350 kN/m ² U.D.L. plus Service load - 0.250 kN/m ² U.D.L. (Fire-rating service loads have been included.) |
| Deflection | : | All steel members have been designed with a maximum deflection of L/250 in accordance with the requirements of BS5950 Part 1 : 2000 |
| Centre column | : | Base plates - 250mm x 250mm x 15mm |
| Column Loads | : | Estimated maximum axial load 145kN (unfactored) to floor slab |
| Hand-railing | : | 197.00 metres total (standard tubular, twin railed side mounted RHS posts) |
| Kicker | : | Included for all hand-railing, in 100mm high black MDF |
| Staircases | : | 2 no., standard steel staircase for industrial use only |
| Landings (Industrial) | : | 2 no. double mid landings steel construction with chequer plate covers |
| Surface Finishes | : | Main steel - shot-blasted, primed and one top-coat colour Davicon blue (RAL5010) Decking - natural Deck-beams and handrails - galvanised. Handrail posts, stair treads - black powder coated. |

