



The UK's No. 1 manufacturer of mezzanine floors

**davicon**  
mezzanine floors

YOUR PLATFORM FOR FUTURE GROWTH



## Case Study

### Clipper Teeside Project for George



We have a vision at Clipper – we aim to become one of the most respected trusted and recommended Logistics brands in the UK, with a reputation for challenging traditions, implementing change and improving customer performance.

In February 2009 Clipper, the UK's leading retail and high-value Logistics provider, opened its Darlington Deconsolidation Centre, and from the outset it has been working in partnership with George for ASDA.

#### THE CHALLENGE

Clipper Logistics has been working on behalf of a leading supermarket chain for a number of years and during this period has gained an understanding of the handling requirements of its clothing product range. However, the company wanted to demonstrate that it was partner of choice for the retailers garment receiving process centre.

Clipper Logistics identified a new site at Wynyard Park near Billingham in the Tees Valley, that could house the product inbound receiving process, but needed a highly efficient materials handling and space utilisation solution to enhance the method of work within the facility. In addition, the company also wanted to create additional storage space to handle future third-party logistics contracts.

#### THE SOLUTION

Clipper Logistics teamed up with Davicon to create almost half million square feet of additional warehousing space at the Wynyard Park distribution centre. The facility has been developed to house a hanging garment operation for a leading retailer that will initially handle over two million items per week, as well as creating additional space for new third-party logistics contracts. Davicon supplied a three-tier mezzanine solution that forms an integral part of the materials handling solution and provides storage for approximately one million garments per floor.

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 125 metres by 121.5 metres within the facility with each of the three levels providing a total decked area of approximately 14,600 sq. m, creating an overall storage and processing area equivalent to 11 football pitches.



The installation has been developed to support future changes to operational requirements and enable the upgrade of the installed materials handling system. As a result, the facilities initial volume can be increased to over three million items per week over the coming years.

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 18 weeks, two weeks ahead of schedule.

## DESIGN

Platform Size	:	125m x 121.5m rectangular in plan. Total 45,562 m <sup>2</sup>
Column Grid	:	Generally 4.05m x 4.786m
Height	:	L1; +4,300mm L2; +7,900mm, L3; +11,500mm
Construction Depth	:	All levels 292mm generally (isolated area on gnd-1st only 343mm)
Decking	:	38mm Particle board TG2
Loads	:	Imposed load L1, 3.5kN/m <sup>2</sup> ; L2 & L3, 2.5kN/m <sup>2</sup> UDL Dead load (mezzanine self-weight) - 0.35 kN/m <sup>2</sup> U.D.L Service load 0.25 kN/m <sup>2</sup> U.D.L
Deflection	:	L/250

