



The UK's No. 1 manufacturer of mezzanine floors

**davicon**  
mezzanine floors

YOUR PLATFORM FOR FUTURE GROWTH

## Case Study

### Burton-Upon-Trent Project for a High Street Pharmacy

One of the UK's leading pharmacy-led health and beauty retailers needed to automate its new warehouse. Davicon was asked to provide a multi-level mezzanine floor to suite the automated handling equipment provided by the warehouse integrator.

Double boarded to ensure high loading capability [could have a scissor lift driven on it!] and high loaded OSR on top

- Platform Size : Level 1 ~ 93.6m x 64.6m (approx 6050m<sup>2</sup> in plan)  
Level 2 ~ 32m x 16m (approx 505m<sup>2</sup> in plan) (offices)
- Height : Level 1 ~ +6.3m to top of floor from ground floor  
Level 2 ~ +11.8m to top of floor from ground floor
- Construction Depth : 838mm
- Decking : 38mm PB P6 TG2. (Double layered 76mm)
- Loads : Up to 14kN/m<sup>2</sup>
- Axial Loads : The maximum axial load 1300kN (unfactored)
- Deflection : Individual beams located directly under the OSR rack designed with a maximum deflection of 4mm, imposed only, over the width of each rack (approximately 2250mm).  
All other individual steel members have been designed with a maximum deflection of L/200.  
All columns L/150.
- Staircases : 5 No. 6.3m high access stairs, each comprise of 3 flights, 3m high, with 2 intermediate ½ landings and a top landing.
- Handrail : 412 linear metres to the low level and 'Office'
- Pallet Gates : 8 No. Standard gates Ajax type 05.

