



The UK's No. 1 manufacturer of mezzanine floors

davicon
mezzanine floors

YOUR PLATFORM FOR FUTURE GROWTH



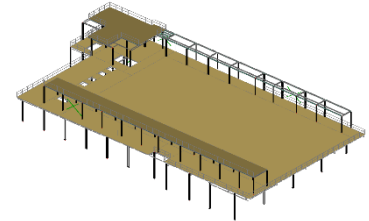
Case Study

Lutterworth Project for ASDA



Low prices and a friendly welcome: what you'll find in every ASDA store

We've got more than 500 ASDA stores across the UK – some big, some huge and some small but perfectly formed. And although they vary in size, location and the range of products and facilities on offer, you'll find the same low prices and friendly approach in every single one.



ASDA Lutterworth - Double boarded construction with an Autostore Automated Storage system specified at 18kN/m² loaded floor and very strict deflection criteria of maximum deflection of 10mm due to shuttle cars.

First Autostore installed on a mezzanine floor in the UK.

- Platform Size : 64m x 33m (2356m² decked area)
 - Column Grid : 8.2m x 5.3m (varies)
 - Max. column load : 1020kN (un-factored)
 - Height (top of floor) : +6.5m; +10.62m
 - Construction depth : 1008mm
 - Decking : 38mm P6 Particle Board TG2
 - Loads :
 - Imposed UDL
 - 18.00kN/m² (1,165m²)
 - 5.0kN/m² (750m²)
 - 2.5kN/m² (330m², +10620m level)
 - Dead UDL, Self-Weight
 - 0.7kN/m²
 - Dead UDL, Services
 - 0.25kN/m²
 - Point Loads : Current design will support 7.0kN on a 150mm square plate
 - Dynamic : 26.2kN/146 robots
 - Deflection : In the Autostore (18kN/m²) area all individual steel members have been designed with a maximum deflection of 10mm (imposed load) at the centre of worst case bay.
- Other areas where 5kN/m² and 2.5kN/m² are required the sections are designed to L/250
- Base Plates : We have included for a maximum 450mm x 450mm x 20mm thick base plates which is adequate for the size of column to be used.
 - Surface finishes :

Main Steel	RAL 5010
Decking, timber	Natural
Deck beams and handrail	Galvenised
Handrail posts and stair treads	Black powder coated

