



Case Study

Nottingham Project for ASDA



A group of Yorkshire farmers were responsible for writing the first chapter in the history of ASDA when they formed Hindell's Dairies in the 1920s. After a successful period which saw them expand and diversify the company was floated in 1949 as Associated Dairies and Farm Stores Ltd. The development has continued with the introduction of ASDA Living stores across the UK and asda.com and the non-food online business Asda Direct were launched along with ASDA Financial Services and a host of own label brands.



ASDA Nottingham was an existing warehouse that was redeveloped for ASDA by a major systems integrator. Davicon worked for the integrator to supply the following system.

Mezzanine floor for conveyor support and maintenance access. Open grid mesh, cat-ladders and triple height handrail, all in green RAL 6018!

| | | | | | | | | | |
|---|--|----------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------|--------------------------------|---|--|
| Platform Size | : 81.555m x 2.600m + 2.500m x 2.100m | | | | | | | | |
| Column Grid | : as per your drawing IC000759_AHD_041 | | | | | | | | |
| Height | : 3.350m to the topside | | | | | | | | |
| Construction Depth | : 279mm (giving free height 3.071m below the mezzanine) | | | | | | | | |
| Decking | : 25mm Galvanised Rectangular Open Steel Mesh (34x100) | | | | | | | | |
| Loads | : <table> <tr> <td>Imposed load -</td><td>5.000 kN/m² U.D.L. plus</td></tr> <tr> <td>Dead load (mezzanine self-weight) -</td><td>0.350 kN/m² U.D.L. plus</td></tr> <tr> <td>Service load -</td><td>0.000 kN/m² U.D.L.</td></tr> <tr> <td colspan="2">(no allowance made for services, ceiling etc. supported from the floor)</td></tr> </table> | Imposed load - | 5.000 kN/m ² U.D.L. plus | Dead load (mezzanine self-weight) - | 0.350 kN/m ² U.D.L. plus | Service load - | 0.000 kN/m ² U.D.L. | (no allowance made for services, ceiling etc. supported from the floor) | |
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| (no allowance made for services, ceiling etc. supported from the floor) | | | | | | | | | |
| Deflection | : All steel members have been designed with a maximum deflection of L/200 in accordance with the requirements of BS5950 Part 1: 2000 | | | | | | | | |
| Base Plates | : 250mm x 250mm x 10mm thick base plates | | | | | | | | |
| Column Loads | : Estimated maximum axial load 32kN (unfactored) to floor slab | | | | | | | | |
| Hand-railing | : 167.00 metres total (standard tubular, twin railed) | | | | | | | | |
| Kicker | : Included for all hand-railing, in 100mm high galvanised steel as part of mesh flooring. | | | | | | | | |
| Catladders | : 4 no. c/w safety cage and self closing gate. | | | | | | | | |
| Conveyor Steelwork | : 2 no. Frameworks 20.410m & 25.930m long generally as outlined on your drawing IC000759_AHD_041 Layout 2 & 3 | | | | | | | | |