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WORKSPACE CREATION



CASE STUDY

Multi-Channel Retailer

Mezzanine & Shelving Project

The background image shows a large, modern industrial warehouse. A prominent feature is a mezzanine level with a metal staircase and safety railings. The floor is filled with various items, including stacks of yellow and green pallets, and some shelving units. The overall atmosphere is industrial and spacious.

Mezzanine & Shelving Project Phase 1

Avanta UK Ltd - Unit B1, Astra Park, Parkside Lane,
Leeds, West Yorkshire, United Kingdom, LS11 5SZ

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Major Multi-tier Mezzanine Floor Project Completed Avanta.

Leeds based Avanta UK Ltd have completed one of their latest large scale multi-tier mezzanine floor projects for one of the UK's leading multi-channel retailers.

The project took place in the North of the UK and it was for a fire rated multi-tier mezzanine floor measuring approximately 14,500 Square Meters. To put this into context the total floor area is nearly the equivalent to 4 full size football pitches.

Mezzanine Floor – The Detail...

This project is a two tier platform with each platform measuring 7210.57 meters square and the finished floor levels are set at 3900mm and 7500mm.

The existing warehouse floor slab was piled to accommodate the additional load and this gave Avanta the opportunity to increase the span between the columns and set the footplates into the floor slab and thus reducing obstructions and creating a neat finish.

The floor loading is rated at 5Kn/m² and load access is via a goods lift and 4 up and over pallet gates.

There are 6 staircases with mid landings and over 800 linear meters of handrail and kickplate. In addition to the hand rail extra protection is achieved using 1200mm high mesh panel to prevent boxes falling.

To meet building regulations the whole mezzanine structure is fire rated to 1 hour. This meant that each column had to be fully encased with a PVC Vermiculux clip on casing. To the underside of both levels a full suspended ceiling is fitted and suitable fascia board is fitted to the perimeter.

Both floor levels were finished in a two pack epoxy floor seal providing an anti-slip waterproof finish to the mezzanine deck.

Also...

Avanta also supplied wrap around column protection for the ground floor and full barrier protection to the perimeter.

On the middle floor Avanta supplied and

built longspan shelving with mesh decks to create 40,000 BDC box locations.

On the top floor Avanta designed and supplied various workbenches and trolleys creating a new QC Area and garment hanging section.

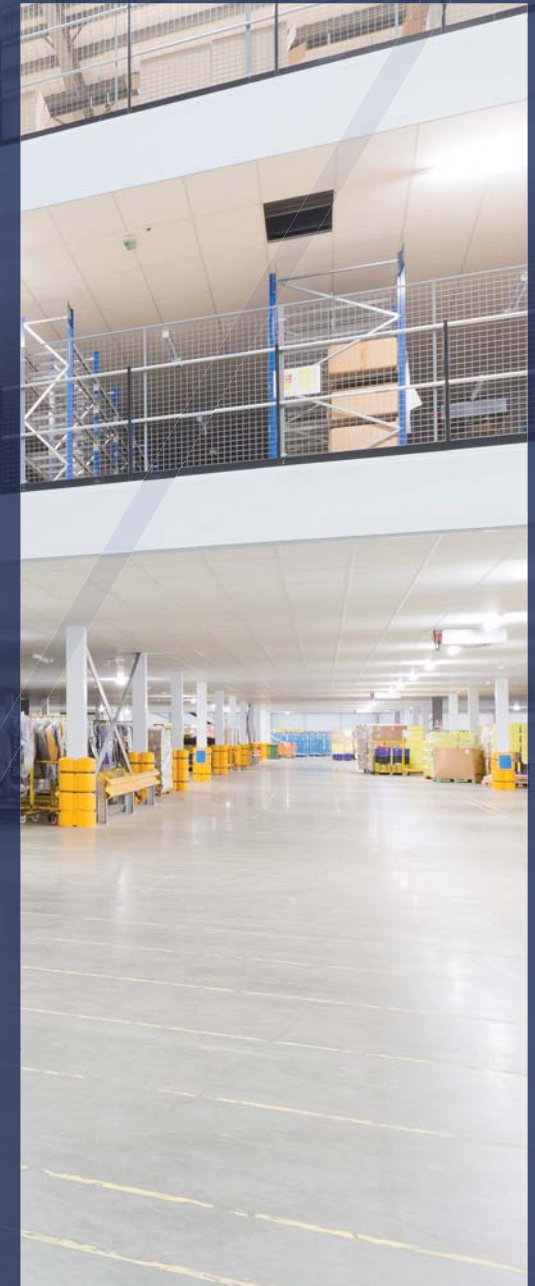
Timescale

The whole project was completed in 36 weeks.

Outcomes

With the addition of this mezzanine, apart from the obvious space creation this project has enabled-

- The creation of 200+ new jobs.
- Increased storage capacity.
- Improved picking rates.
- Consolidated teams.
- Saving of money in comparison to building or purchasing additional warehouse space.
- The floor can be extended upwards and outwards if required to suit the needs of the business.
- The use of the floor could be changed or adapted if required e.g. offices or control rooms can be added.







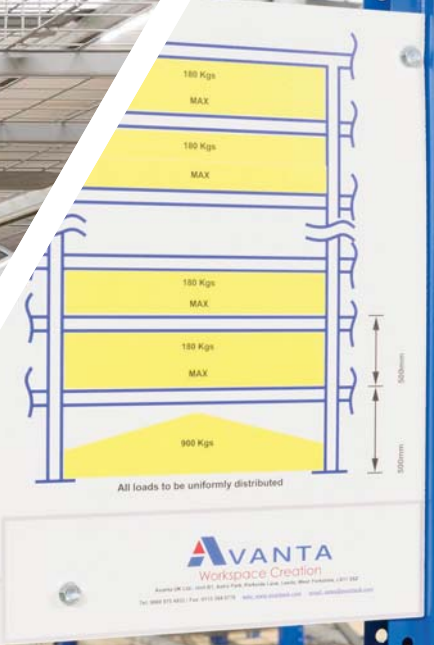
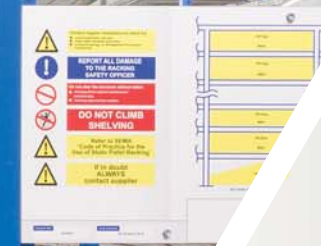




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Mezzanine & Shelving Project Phase 2



22,000m² fire rated mezzanine floor consisting of initial 14,500m² and 7,500m² extension.

Large-Scale Multi-Level Mezzanine Floor Extension Project.

In principle, Mezzanine floors are a free-standing independent structure that is modular and therefore can be adapted, extended and even relocated if required. This helps a business to increase storage capacity and work areas or create new office space to support growth.

Only 2 years ago Avanta UK Ltd designed, supplied and installed a huge fire rated two tier mezzanine floor for a leading multi-channel retailer and were invited back to extend the floor.

The original floor measured 14,500m² and the extension would offer a further 7,500m² for the client to utilise.

An additional 300 linear metres of hand-rail were required to levels 1 and 2 and an additional 3 staircases.

The extension was fire rated for 1 hour protection using suspended ceilings to the underside of both levels and all steel columns encased in fire rated column casings and fascia to match.

The two timber decked levels were finished with a clear epoxy resin giving anti-slip and water proofing properties.

Selected Statistics

Mezzanine Floor

Phase 1	14,500m ²
Phase 2	7,500m ²
Total	22,000m ²

Handrail

Phase 1	800 linear metres
Phase 2	300 linear metres
Total	1100 linear metres

Staircases

Phase 1	6
Phase 2	3
Total	9

In addition to the existing Longspan Shelving supplied and installed by Avanta that gave 50,000 BDC box locations, Avanta supplied and built new Longspan shelving that offered an additional 60,000 BDC locations. The shelving has drop over mesh decks with an integral divider and floor level also had a box section back stop.

Mezzanine Floor Uses Include...

Running concurrently with the mezzanine project were multiple projects centred around the uses of the floor. In addition to the BDC storage these include:

- Secure partitioned area formed from solid steel and mesh panels with garment hanging system for high value stock.
- Creation of specific self-contained workspaces for concessions including partitions, suspended ceilings, benches and more.
- Covid secure packing areas with 2mx1m workbenches and 2m high covid screens.

Working in close partnership with the client over many years and many successfully completed mezzanine projects has enabled Avanta UK to refine its offering to suit the client's expectations exactly. This includes the decking finished in anti-slip waterproof resin. All edge protection is complete with additional 1200mm high mesh panels for extra fall arrest protection of product. Ground level has additional barrier and column protection as standard for the busy warehouse.



Avanta UK Ltd acted as Principal Contractor throughout the original build of the mezzanine floor and the extension projects. This offers the client piece of mind health & safety wise and knowing there will be consistent Avanta site management presence as part of the wider comprehensive package.



Fascia cut back and main steels erected. Safety netting as standard.



 New mezzanine floor connecting into the existing mezzanine.



Close up of mezzanine purlins or connectors to be fixed into the existing structure.



Mezzanine structure taking shape with temporary hand rail and netting whilst work is in progress.



Close up of the anatomy of a mezzanine floor with main columns and purlins connecting to beams.



The completed fire rated two tier mezzanine floor.





Longspan shelving installation to top level to store circa 110,000 boxes.



Longspan shelving with appropriate aisle end upright protection. 



For optimum BDC storage the shelving has 5 levels plus ground.



The drop over mesh decks have an integral divided that acts as a back stop for boxes.



Secure storage area for high value goods created from double skin steel partitioning with mesh.



Covid secure workstations with polycarbonate screens.



Separate business area created from double skin steel partitions on the mezzanine.



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Avanta UK Ltd is an independent company with 20 years experience in designing and sourcing equipment. Long term partnership arrangements and rigorous appraisal of our portfolio of extensive manufacturing partners ensures that our clients have access to high quality and competitively priced standard and non-standard products.

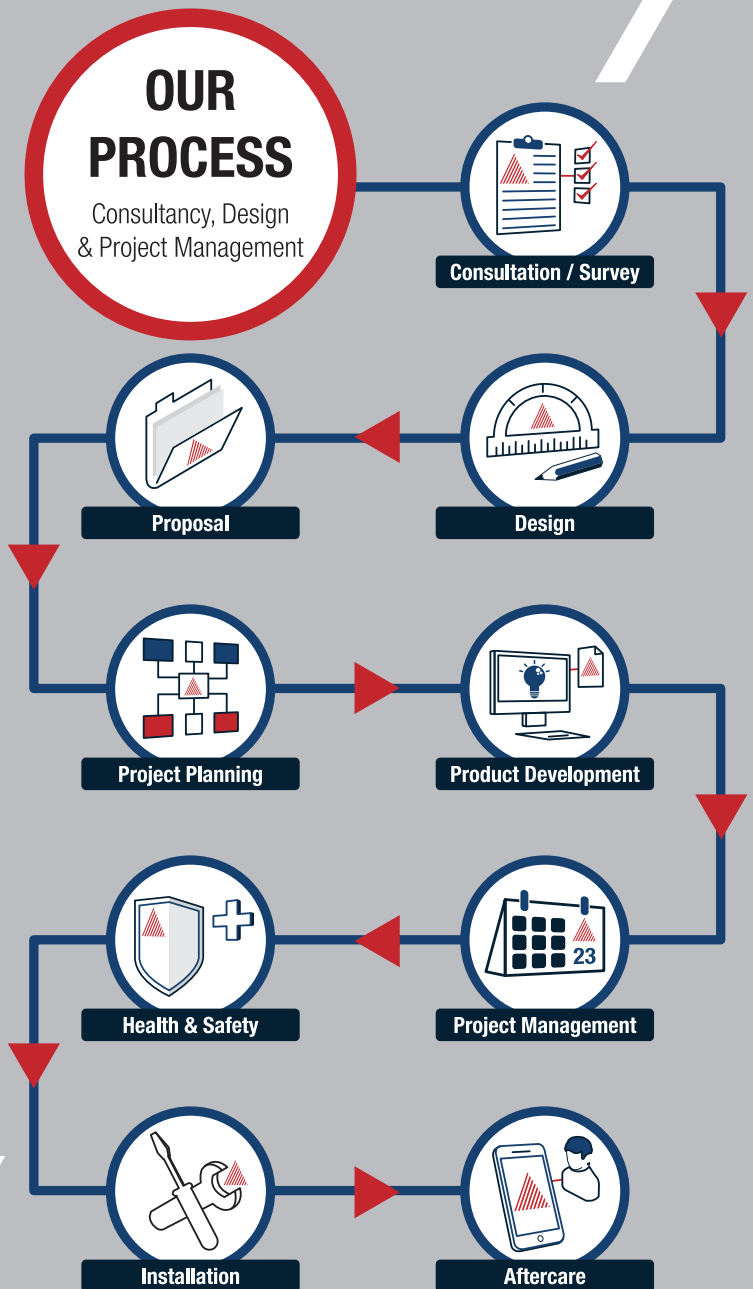
Our specialities include mezzanine floors, storage systems (including warehouse shelving, pallet racking, longspan shelving and mobile shelving systems) and interior solutions (including office partitions, office storage, steel partitions, mesh security cages and workbenches).

We cover the whole of the UK and work closely with the major manufacturers offering warranty, peace of mind and on going support.

See more case studies at
www.avantauk.com

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Call - 0800 975 4933

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Mezzanine Floors

Office Interiors

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