

AVANTA



CASE STUDY

**Two by Two Tier Fire Rated
Mezzanine Floor Project**



Two by Two Tier Fire Rated Mezzanine Floor Project

Avanta UK successfully tendered for two fire protected two tier mezzanine floors in adjoining fire chambers of a largescale retail warehouse operation.

This wide-ranging project also included various SHELIVING SYSTEMS, AUTOMATION, GOODS LIFT, AND PACKING BENCHES.

Following a number of meetings with the client and MHE provider to gain a better understanding of their processes, the proposed STORAGE SOLUTION would need to seamlessly integrate with the existing automation as well as create a vast storage area.

The castellated end of the mezzanine floor(s) linked in with the Very Narrow Aisle (VNA) Racking system and aligned with the racking aisles allowing the VNA trucks to side load palletised stock straight on to the mezzanine levels.

The wire guidance was extended past the aisle into the infeed conveyor. An automated drop on conveyor system designed to receive single and double pallets was proposed for the infeed of the floor allowing palletised stock to be transferred from the racking to the mezzanine seamlessly.

The pallet transfer system takes the pallet to the operatives who will then manually receive the pallets using pump trucks. The stock can then be distributed into the BDC (Bulk Distribution Carton) shelving located on the mezzanine floor.

The project also included:

- A dedicated Avanta projects team co-ordinating all trades
- Principal Contractor cover with HSE notification of start dates etc.
- A 4-pallet capacity goods lift was installed, and this included building works and pit formation
- Relocation of existing five tonne box making machine to the top level of the mezzanine. This included the decommissioning, transport, contract lifting and commissioning. This meant the mezzanine required retrofitting steel strengthening support.
- The decommissioning of an existing conveyor system at an adjacent site and relocate to level one of the mezzanine floor to feed the packing benches

The 2x two tier mezzanine floors were tied together through a 4-hour fire rated wall. One of the mezzanines also tied into an existing mezzanine floor.

All penetrations through the fire wall had to be design engineered with support steel and design specified fire protection.

10,000 square metre mezzanine floor

40-week project

Principal contractor role

£5.5 million project

Designed to integrate with automation









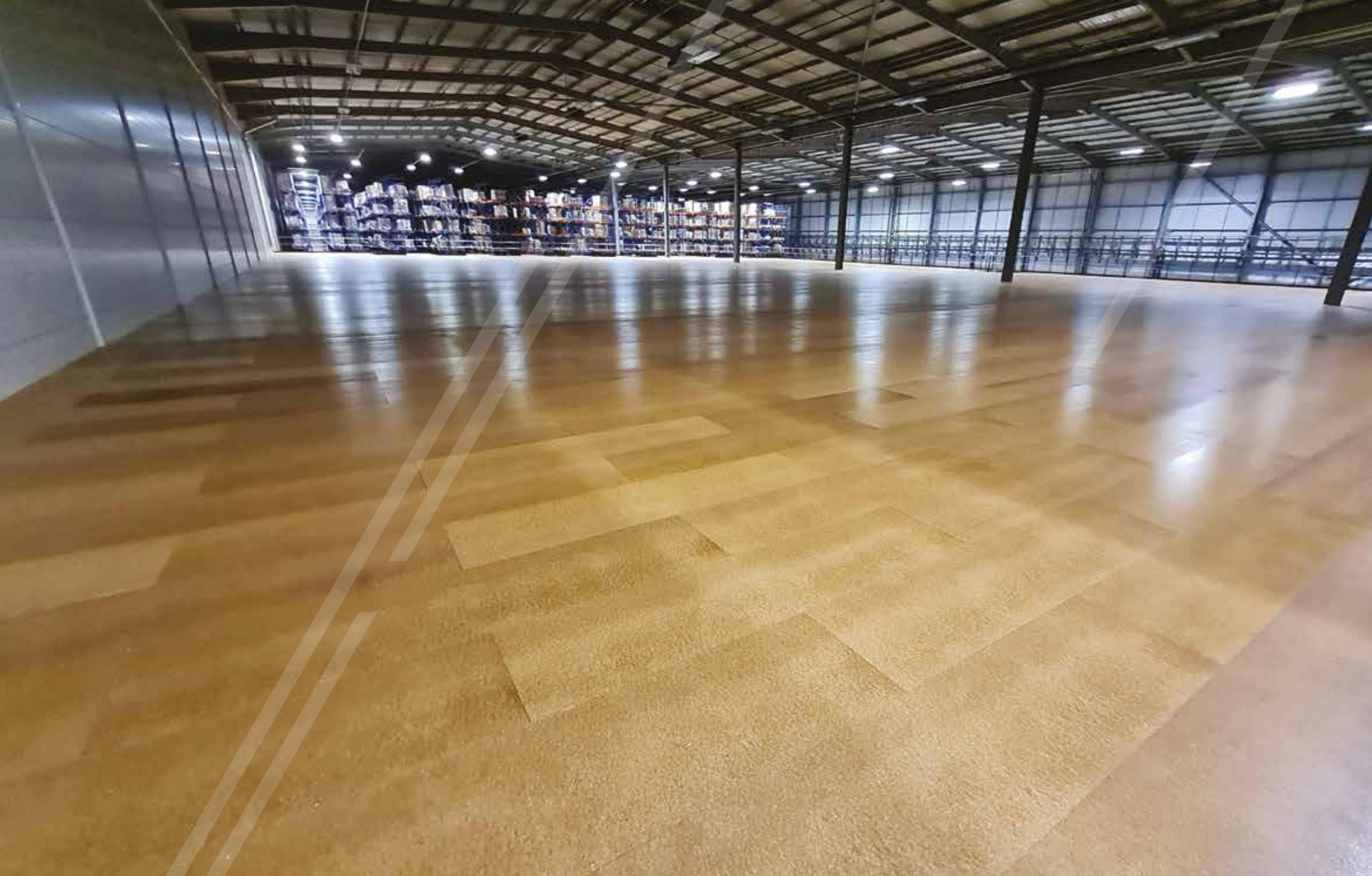
























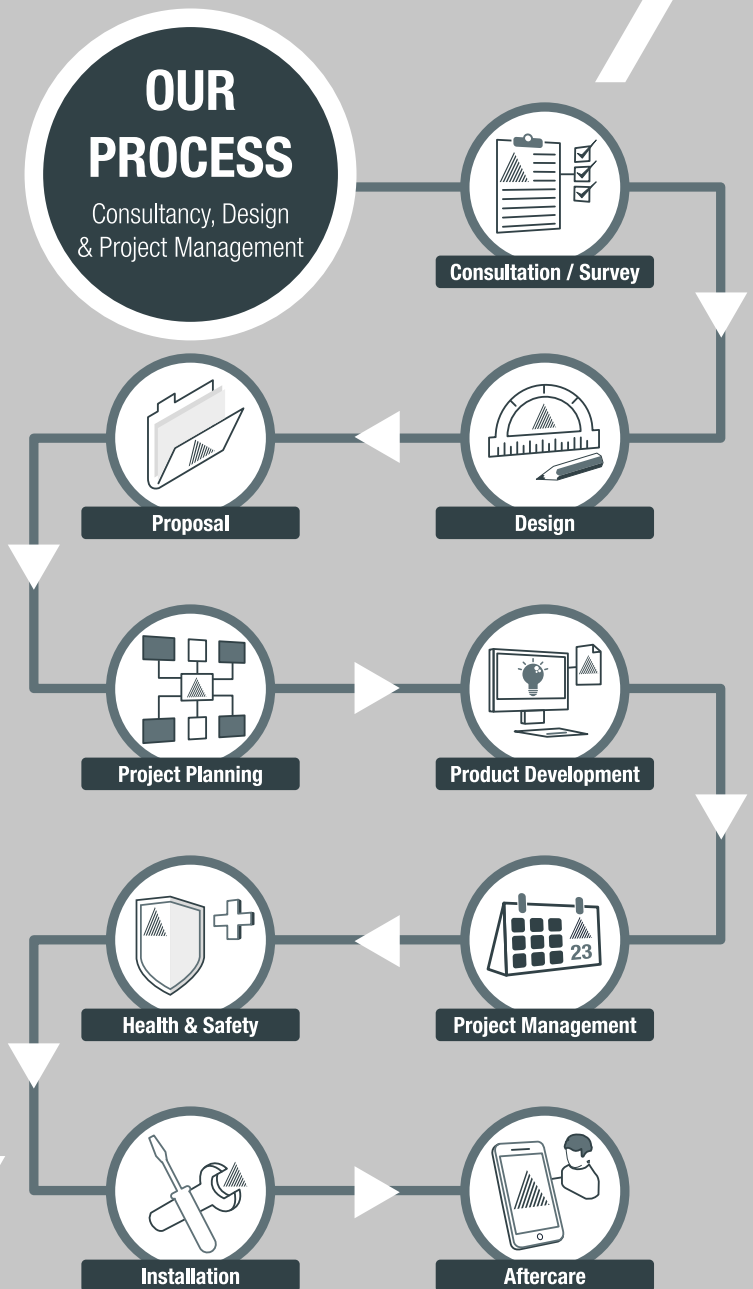
Avanta UK Ltd is an independent company with 20 years experience in designing and sourcing equipment. Long term partnership arrangements and rigorous appraisal of our portfolio of extensive manufacturing partners ensures that our clients have access to high quality and competitively priced standard and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

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