



AVANTA

SHELVING SYSTEM

PROJECTS 3



Avanta UK Ltd is an independent company with over 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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Multi Tier Fire Rated Retail Mezzanine Floor Project

Leeds-based storage equipment specialist, Avanta UK Ltd successfully tendered for and delivered a turnkey warehouse improvement project for a leading multi-channel fashion retailer.

The client is long established in the fashion arena selling garments and footwear through mail order, ecommerce, franchises, concessions and its own stores.

Having completed a significant warehouse extension, the next stage for the client was to engage with a specialist storage equipment provider to optimize the storage capacity of the cubic space within the extension, improve pick rates and lock into the warehouse management system to service the afore mentioned channels.

Warehouse Storage Solutions

All items are picked from the BDCM1 Retail box / carton, and the system was designed around the box and the available space.

The solution included:

Two Tier Mezzanine Floor

The mezzanine floor came in at a healthy 4,271m² (46,083ft²) and is fire rated to 1 hour with suspended ceilings, fire enclosed staircases with fire escape doors.

There are 120 linear metres of handrail and temporary handrail, and safety netting was employed during the build of the mezzanine floor.

Ground and level 1 are to be used for the main storage and picking operation with the smaller level 2 to be used for bulk and overstock.

Lighting and Smoke Detection

PIR lighting was installed throughout the structure with power and data for the sortation and packing area benches also supplied and installed. Electrical supply was installed for the mezzanine floor goods lifts and conveyor system. Smoke / Fire detection system was a pre-requisite of the Building Regulations organised by Avanta UK.

Mezzanine Floor Goods Lifts

Floor slab preparation works took place for 2x mezzanine floor goods lifts to service all levels of the mezzanine floor took place. The lifts enabled the safe movement of products in totes between levels. Avanta oversaw the installation and the commissioning of the goods lifts to all relevant standards.

Warehouse Shelving Systems

Longspan Warehouse Shelving

Avanta UK designed, supplied, delivered and installed 1057 bays of BDC box storage shelving. Each shelf level is complete with a mesh shelf with integral divider for back-to-back storage of the picking boxes. This gave the client the capacity to store circa 58,000 BDCM1 boxes to pick directly from. The shelving system is designed to have no wasted space with the bay sizes designed around the box size.

Returns Shelving

No Internet retail warehouse is complete without a dedicated area or facility to store individual returned items. Avanta UK have designed and developed a returns shelving system that in this instance the 96 bays supplied gave the client circa 3168 return locations to pick from and re-work.

Sort / Pick / Pack Area Workbenches

With power and data to a specific area of the mezzanine floor, Avanta UK supplied 40x bespoke packing 2.1m length workbenches complete with louvre panels, base and upper shelves.

Conveyor System

Complete with bar code reading, warehouse management interface and service package, the conveyor package offers the client a quick, cost-effective method of moving products in plastic totes around the 3 levels. With powered rollers, decline belts and lift up transfers, this conveyor system is an efficient mode of transporting product around the warehouse to the pick pack area workbenches. There is circa 150m of conveyor on this project.

Picking Totes

2000 stack and nest containers 600 (L) x 400 (W) x 325 (H) mm with 15KG capacity in 4 colour ways were supplied for multiple picks in the trolleys and conveyor systems.

Trolleys

20 off bespoke picking trolleys designed and supplied. Each trolley is designed to accommodate and transport 12 totes.

Principal Contractor Role

With a project of this size / duration to conform with Construction (Design and Management) Regulations 2015 (CDM) Avanta UK Ltd acted as Principal Contractor (PC). This included full site set up with welfare facilities for all trades, full site supervision with suitably qualified site management throughout.

Avanta was responsible for full health and safety in the CDM area throughout the project.

The Project

This turnkey project was a 2-phase programme with 60% of the fire rated mezzanine complete

with shelving could accommodate stock that was originally bulk stacked in the warehouse extension. This then freed up the space to move to phase 2 and this included the remaining 40% of the mezzanine, conveyors, goods lifts and ancillary items.



4,271m² Two tier mezzanine

58,000 BDCM1 box locations

3,168 Returns locations

150m of conveyor employed





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END to End Storage Solution

Leeds based Storage Equipment Specialists Avanta UK Ltd have completed one of the largest multi-tier shelving systems projects in the UK for an influential multi-channel menswear retailer.

The online demand for cutting edge sportswear, trainers and the best in contemporary menswear has driven the requirement for this large-scale expansion programme. Alongside UK based flagship stores the client has a growing online presence servicing the UK and to over 80 Countries Worldwide fuelling the requirement undertake this project.

Having worked with the client before, Avanta UK already had an insight into what the best solution for the client would be in order to increase storage capacity of a warehouse extension for box storage utilising the full height, width and length available. This resulted in refining a design for a multi-tier shelving system incorporating a mezzanine floor.

Avanta UK Ltd successfully tendered for the project against a very competitive field and were awarded the contract. It could not be anticipated that this project would be undertaken during the Covid-19 National Lockdown. The multiple trades teams had to complete the installs whilst following Government advice in all aspects.

This also could have impacted the supply of raw materials with various factories closing or operating on a reduced staff number. However, despite this situation the project was successfully completed in the 20 week

programme required working along side the Sprinkler company, Electrical Contractor and other Trades.

The contract worth circa £1.8 million is for one of the largest multi-tier shelving systems in the UK giving the client: -

- 3 Levels plus ground – (Ground, Level 1 & Level 2 for shelving and Level 3 for storage and potential growth.
- Each level measures 145m in length x 35m width giving 5075m square per level x 3 in the structure = 15,225m square.
- If you include the ground level, there is over 20,000 square metres of storage.
- 15,000 Shelves within the structure.
- A capacity of 550,000 shoe boxes can be stored.

Access to each level for product included 3x goods lifts. One of which had capacity for 4 pallets and the other 2 lifts could accommodate 2 pallets each. Pedestrian access is via 4 staircases of which 2 were enclosed.

Avanta UK also built a galvanised staircase for outside with access to all areas as well as various fire exits as required.

Ian Armstrong, Project Manager for Avanta UK commented – “I have lived and breathed this project for the 20 week duration and it provided me with various challenges to overcome including the period of lockdown. I am proud of the various teams I have managed and worked alongside to get this project over the line and the result is fantastic.”



Wayne Thomas, Project Sales for Avanta UK Commented – “This was a great contract win for myself and Avanta after many weeks of refining the design to create an impressive storage solution for the client that will help them satisfy their growing demand now but also in the future. This project displays the capability of the Avanta team, and it is a solution that other large Internet Retailers could adopt going forward.”

Multi tier shelving system

3 Levels plus ground

Each level 145m in length

20,000m² of storage









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Over 30,000 Box Locations Created for Top Retailer

As part of a wider project, Avanta UK has been awarded and fulfilled a contract to supply, deliver and install a large quantity of Longspan Shelving for one of the UK's leading multi-channel retailers.

The top floor of a recent multi-level mezzanine floor project undertaken by Avanta was to be specifically used for box storage and associated picking.

The Longspan Shelving system proposed is designed to store the popular box size 400mm high x 300mm wide x 600mm depth known as a BDC (Bulk Distribution Carton) and this project gave the client 32,688 full height BDC locations.

The total of 454no bays measured 3300mm (H) x 1200mm (W) x 1850mm (W) with each bay storing 72 boxes.

The beams are a 'Z' shaped profile to accept an inset mesh deck that has an integral divider to prevent boxes being pushed out. The snug fit of the mesh also helps prevent accidental lifting of the deck level when picking a full box or from the box. Another advantage of the 'Z' Shaped beam is for the labels to be inserted.

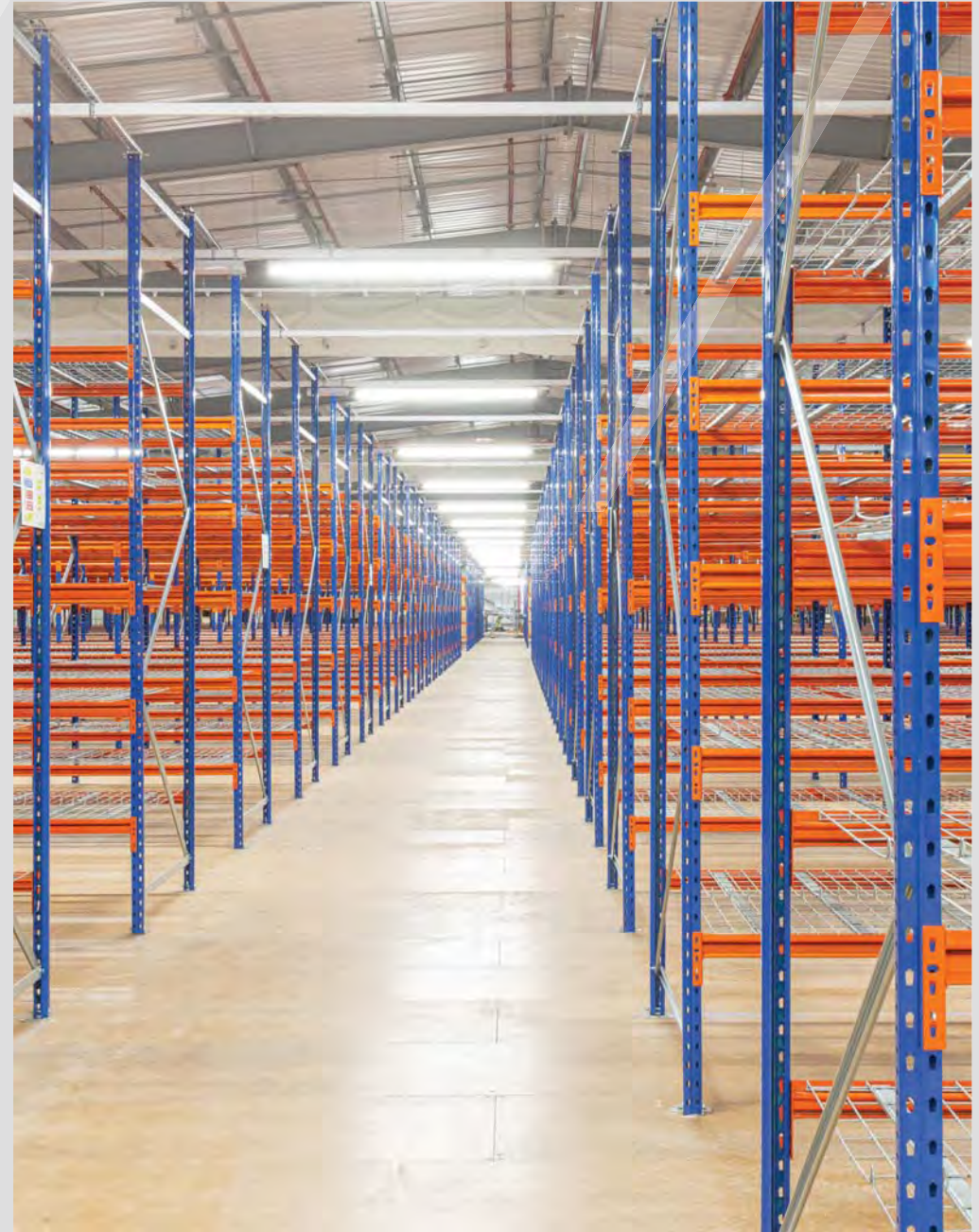
The frames are of an extended height to accept the 5 levels but to also self-support the PIR aisle lighting and additional services as required.



The shelving was sourced from long term Avanta supply partner AR Racking of Spain who are a leading manufacturer of shelving and pallet racking systems.

Avanta UK Ltd acted as principal contractor on this project taking full responsibility for CDM of the work areas.

The shelving element of the project took 4 weeks to install.





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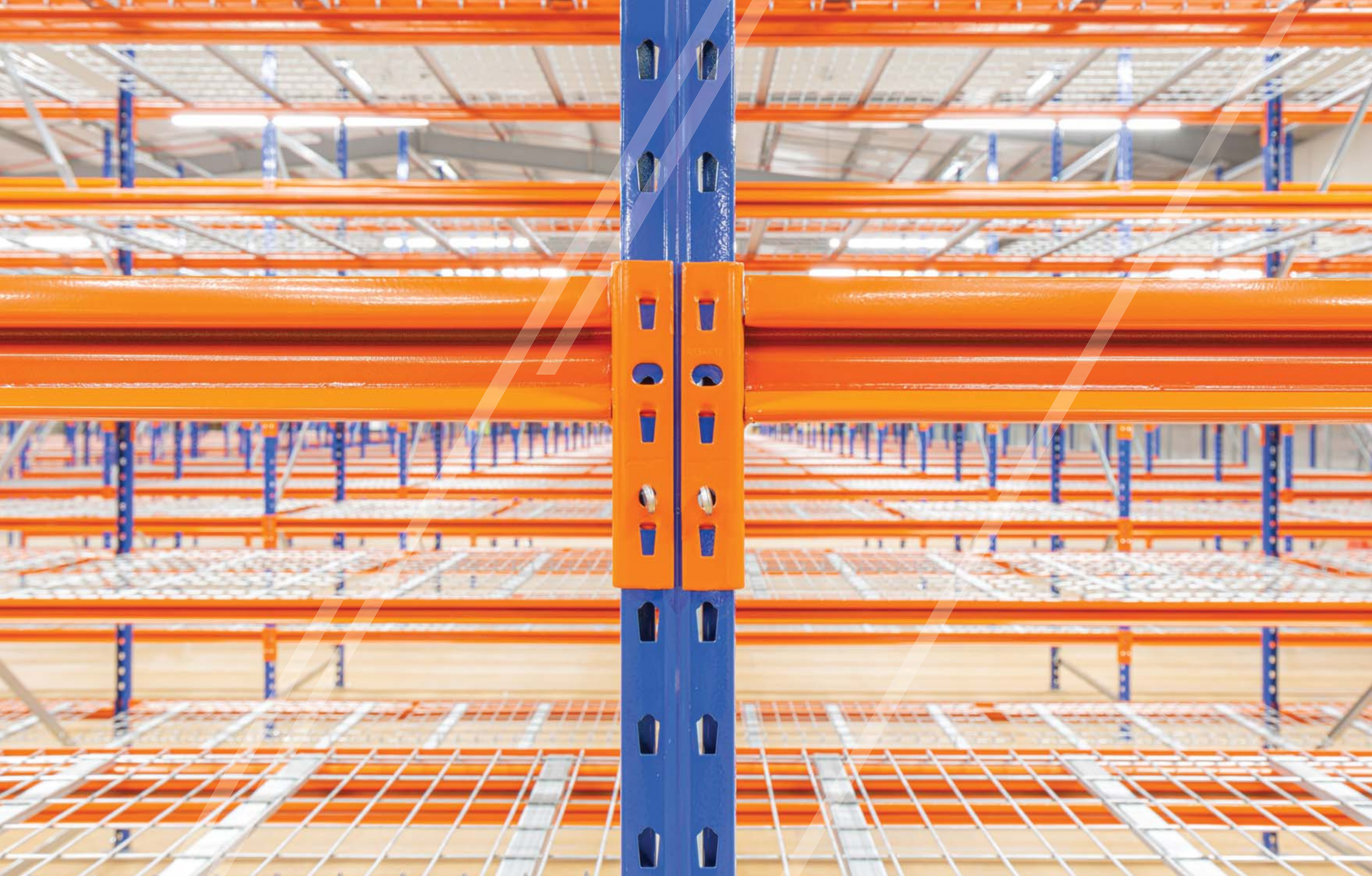




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Large Scale Longspan Shelving Installation

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.

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.









Internet Returns Shelving Warehouse Shelving

We all know that the impact of the Internet age on Logistics has been huge. One major difference with the Internet segment compared to traditional warehouse to store retail is the number of returns from customers and how to handle those returned goods.

Many Internet clothing retailers expect return rates of between 20 and 40% which is a huge amount of returned garments and while online visualisation tools can help reduce this it is still in its infancy.

Over recent years Avanta UK have worked closely with many retailers in the design, supply and installation of 'returns shelving systems'. The idea is to provide a separate returns facility with numerous locations to house returned goods rather than the goods having to go back into the general palletised or bulk stock.

Each pick face within the shelving system has a barcode location that is scanned when the item has been returned. This links into the warehouse management system and the retailer knows that it has the item back in stock and exactly where the item is located. The next time the item is ordered the picker will pick it from the returned stock in the shelving system rather than the bulk location etc.

A recent installation of this type of warehouse shelving was carried out for a prominent Internet fashion retailer providing 145,920 returns locations within 1920 bays. The all

steel shelving is a bolt free system providing a sturdy and robust storage solution that will offer many years of service with a flexible divider system that can be reconfigured if circumstances change.

The rolled edge system has no sharp edges to prevent the snagging of packaging. Each bay is also clad flush at the rear so small items cannot slip down the back.

Subsequent to this installation, another prominent online retailer approached Avanta requiring a similar solution. This retailer was at a different stage of their growth cycle but still required 300+ bays giving circa 25,000 locations for packets.







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CONSULTATION / SURVEY

We carry out a free, no obligation site survey to decipher your exact requirements.

DESIGN SERVICE

At Avanta we have the expertise to design your workspace to suit your needs.

PROPOSAL

We prepare a document that will highlight the key areas of the potential project.

PROJECT PLANNING

We will appoint you a Project Manager who will be a single point of contact during your installation.

PRODUCT DEVELOPMENT

We work with you and with our manufacturing partners to source the best products for the job.

PROJECT MANAGEMENT

We will provide information as required and oversee the smooth running of your project.

HEALTH & SAFETY

Projects are delivered safely and in accordance with the latest regulations.

INSTALLATION

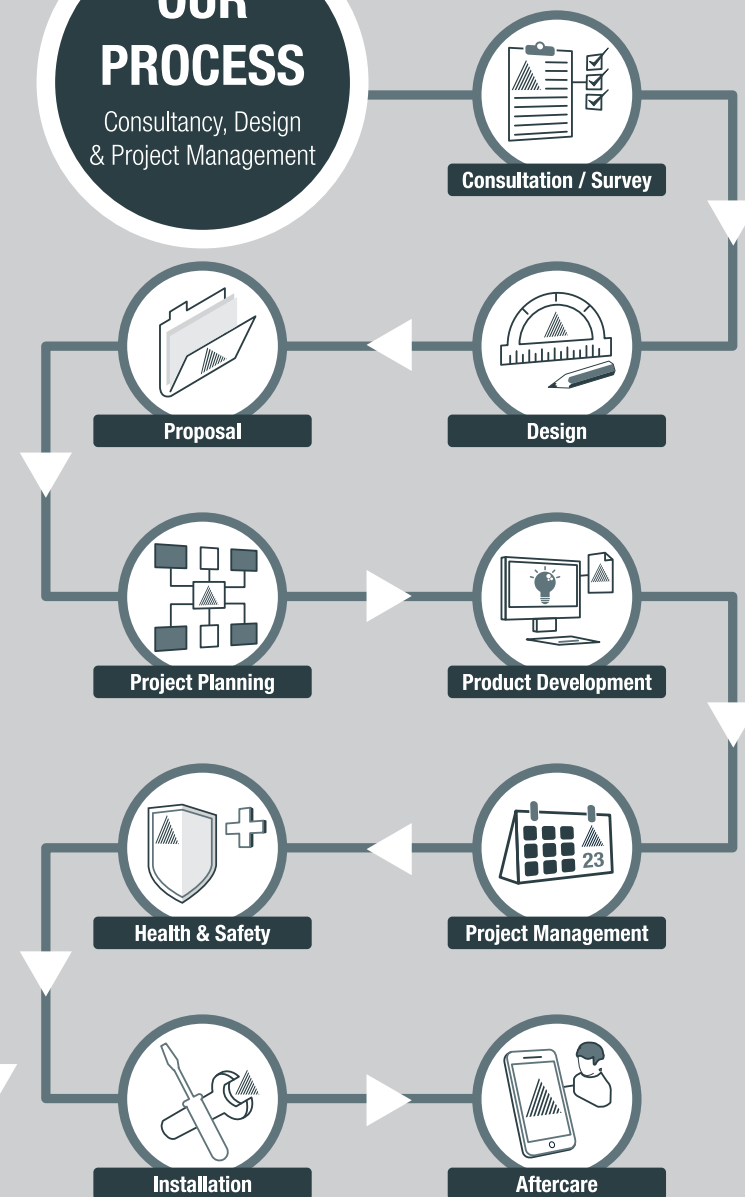
Equipment is installed in accordance with SEMA guidelines by SEIRS qualified installers.

AFTER CARE

We offer further ongoing technical support and maintenance if required.

OUR PROCESS

Consultancy, Design
& Project Management



MEZZANINE FLOORS

OFFICE INTERIORS

PALLET RACKING

SHELVING SYSTEMS

STEEL PARTITIONS

WORKPLACE EQUIPMENT

WAREHOUSE FLOORING

PRINCIPAL CONTRACTOR

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