

8. Inclusive Access

The main vehicle ingress and egress to the site as well as service access remains being from the Mafon Road to the north, also providing pedestrian access southwardly toward the storefront.

Site gradients within the site will not exceed recommendations as set out in Part M of the Building Regulations. Pedestrians are guided to the building entrance via marked crossings.

The car park areas will have falls no steeper than 1 in 40, a gradient which is both suitable for trolley use and wheelchair users alike.

Clearly marked disabled parking bays are provided across the site with 1200mm clear access zones. The 'parent and child' bays have been sited close to the Aldi store entrance and cycle hoops positioned to maximise visibility to the public.

Access into the buildings will be via flush thresholds between paving and car parking. The paving itself will fall no greater than 1 in 60 from a level threshold at the entrance to the flush threshold with the car park surface. This approach will be compliant with the Equality Act 2010 and will permit unhindered access both for wheelchair users and those with restricted mobility.

The food store entrance will be comprised of two sets of bi-parting automatically opening doors, both with a minimum clear opening width of 1100 mm. These doors operate on PIR presence detection and will fail safely in the open position upon activation of the building fire alarm. Both sets of doors are fully glazed with toughened glass. To ensure safe use for partially sighted users, a manifestation of the glazing will be provided, in accordance with current British Standards and Codes of Practice.

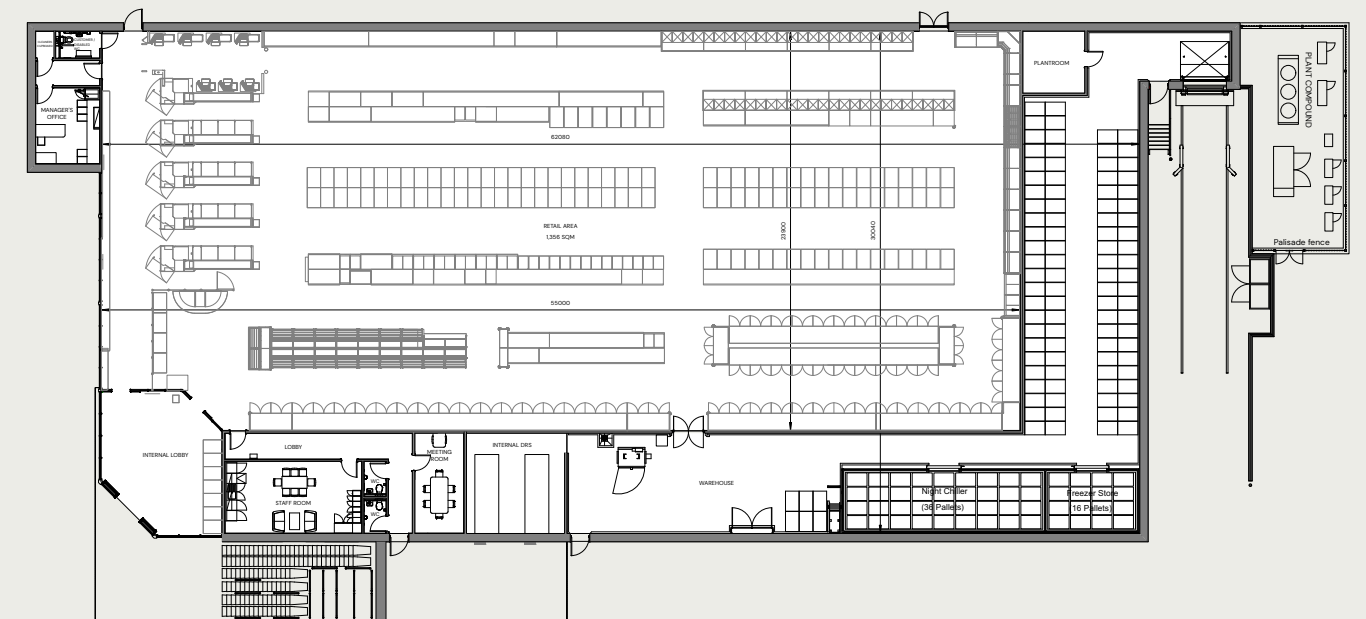
Shopping trolley storage is provided adjacent to the main food store entrance. Trolleys are secured via a coin-operated chain, encouraging customers to return the trolleys after use. Wheelchair-accessible trolleys are also provided within the same area as the main trolley store. Internally, the merchandising layout provides minimum aisle widths of 1800mm, or greater, that permit unhindered passage to the whole of the store for wheelchair users and afford easy two way passing. The nature of goods sold within the retail sales area allows wheelchair users to comfortably reach goods with little or no external assistance.

Wheelchair accessible customer WC's will be provided in each of the buildings.

The proposals are single storey, thus maintaining a consistent floor datum throughout. Door openings are designed to give unhindered passage to wheelchair users.



Image of a typical store interior, showing standard aisle widths.



Proposed Floor Plan (not to scale).

9. Sustainability & Operations

9.1. Energy Strategy

The development seeks to achieve a reduction in CO₂ emissions compared to Building Regulation compliant developments, through the incorporation of the principles of the Energy Hierarchy and the combination of passive measures, including building fabric design improvements and the utilisation of zero and low carbon technologies.

The low and zero carbon technologies that are being proposed for the Aldi food store relate to the provision of photo voltaic panels on the roof (80kWp), and air source heat pumps supplemented by a heat recovery system. No gas supply is required to the building.

Wherever possible construction materials will be procured locally. Preference will also be given to procuring materials from manufacturers and suppliers who are accredited with an EMS including BS EN ISO 14001 or a similar standard.

Elements of the building design that assist a more sustainable approach are as follows:

- The building is detailed and constructed to ensure low levels of air permeability. Features such as the entrance lobby and seals around the delivery bay ensure heat loss is minimised.
- Natural ventilation is proposed in ancillary spaces. The depth of the retail area means it isn't possible on the shop floor but heat recovery is utilised to reduce energy expended to bring cold air up to temperature.
- The system noted above also reduces energy expended in heating up the retail area.
- Large amounts of glazing into the retail area ensure the space is well day lit.
- LED lighting is proposed throughout. Outside trading hours when restocking is taking place, lighting levels are dropped by two thirds. Lights are turned off when the store is unoccupied with the exception of security lighting.
- A Building Management System will be in place to ensure effective and responsive monitoring of the building performance.
- Active EVCP spaces to encourage the use of low carbon vehicles.

9.2. Waste

Aldi waste will be minimised by adoption of the national site waste strategy of reduce, reuse, and recycle. A detailed site waste strategy plan will be produced for the store, for example all cardboard will be baled on site and taken back to the Aldi Regional Distribution Centre for recycling.

Construction waste streams will be monitored during the build to be in accordance with recognised benchmarking figures for the construction industry.

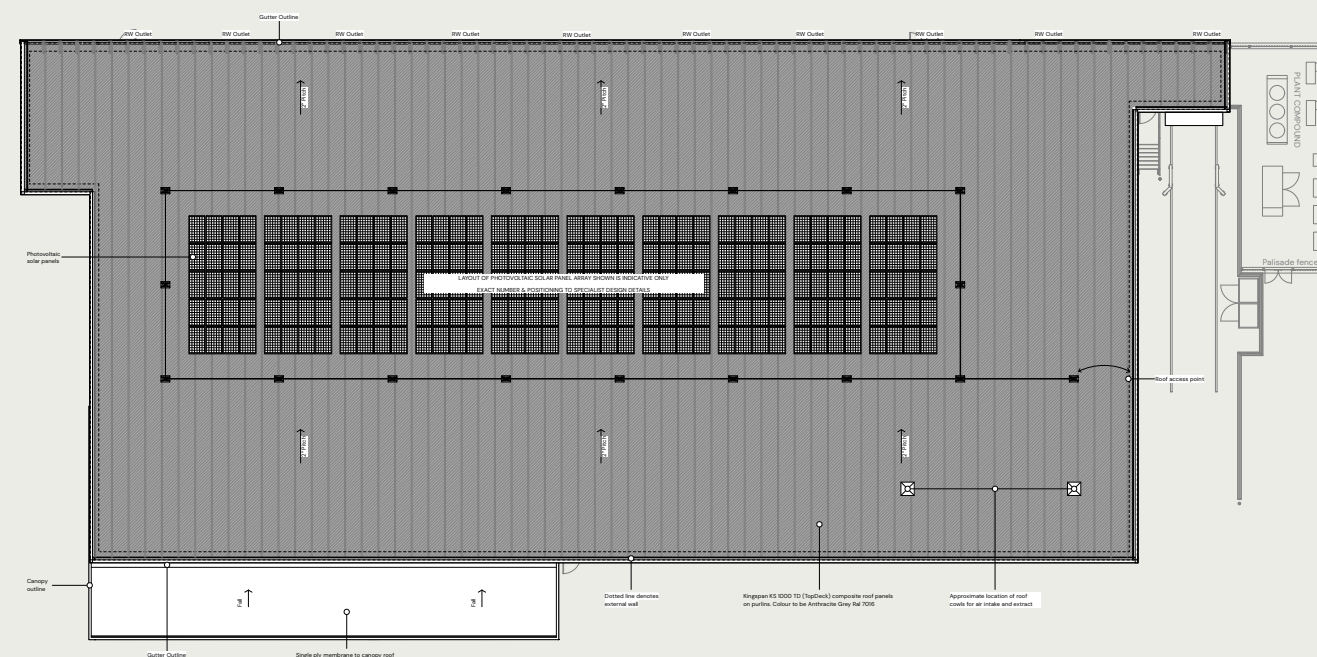
It is not anticipated that there will be any appreciable odours from the proposed buildings or plant.

9.3. Water

Procedures will be established to minimise water pollution by following best practice guidance from the Environment Agency's Pollution Prevention Guidance notes on the Prevention of Pollution, works near to watercourses and working at demolition and construction sites. Oil interceptors will be provided for car park and vehicle standing areas. These will be maintained in line with manufacturers recommendations and will be fitted with an alarm which will sound in the store when an interceptor requires servicing.

9.4. External Lighting

External lighting will be designed in accordance with guidance set out by the Institute of Lighting Engineers to reduce the detrimental effects of night time light pollution. x



Proposed Roof Plan (not to scale).