

Aldi – Case Study



KEY POINTS:

- Uponor UK have supplied a heating solution in over 60 Aldi stores to date
- Wasted heat was utilised from the refrigeration system to provide sustainable heating to the sales floor, cashier areas, welfare and amenities area of the supermarket

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SOLUTION:

- Uponor Quattro Underfloor Heating Solution

KEY PARTIES:

Contractor: Multiple contractors used

M&E Contractors: Multiple M&E contractors used
(CAD 21, Ipsum Engineers)

M&E Consultant: BMT

Client/Developer: Aldi

Framework agreement: 2018-2020

Background

Uponor UK have built up a relationship with Aldi that is centred assisting the major supermarket chain with services such as creating full designs, concepts and solutions. So far, Uponor UK have supplied a solution in over 60 stores and there are plans to work on many more stores as part of their ambitious expansion plan and framework agreement.

Before any work took place, Aldi specified a solution which occupied minimal space and assisted them in reducing their overall carbon footprint. Uponor UK were able to meet and exceed these demands across all stores within the scope.

Uponor Involvement

Uponor UK formulated a pre-design, specification and installation guidance for its underfloor heating solution to aid key parties involved in the project. As part of the design, Uponor included a self-balancing solution which accommodated just one manifold location in the store and would serve the whole building with 8 zones. This was a key requirement set by Aldi's design partners.

All of the structural engineering requirements were met within the design and Uponor worked with the design team and Aldi at each stage of the project to ensure the solution was correctly installed.



BENEFITS:

A major benefit of the solution was the fact that a store could be served by just one manifold location, which reduced the occupied area for services in the stores. The underfloor heating solution utilised the wasted heat from the refrigeration system of each store to provide sustainable heating to the sales floor, cashier areas, welfare and amenities area. What's more, it also helped to create a comfortable environment for customers and staff.

The radiant heating solution minimises the air and dust circulation and blends in to the overall aesthetics of the supermarket as it is not visible (buried in the slab).

By utilising the Quattro Underfloor Heating System, Uponor have considerably reduced the size of the air handling units, which has meant that a minimal of air is required to each.

The client also benefited from a reduction in the installation time for secondary fit outs, with less capital expenditure required.

Uponor continues to work alongside Aldi's preferred contractors to improve the efficiency of solutions on projects and ensure a healthy return on capital.

Quattro Underfloor Heating System



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