



## PROJECT

Asda Store

## LOCATION

Malinsgate, Telford,  
Shropshire

## INDUSTRY SECTOR

Retail

## PARTNERS

WGC

## SOLUTIONS

Fire Sprinkler System

## BENEFITS

- Property protection

## PRODUCTS

Sprinkler system,  
Tank & Pumps

“risk of a  
deep seated  
smouldering  
fire”

## THE CHALLENGE

Asda Stores Ltd is a nationwide supermarket chain based in Leeds which retails food, clothing, general merchandise, toys and financial services. The name Asda stems from the combination of the words, Asquith and Dairies when the merger of Asquith Supermarkets and Associated Dairies took place in 1965. Asda became part of the American retail giant, Walmart in 1999 and today is the UK's second-largest supermarket chain, with in excess of 500 stores and employing some 175,000 people.

Asda opened its new £4 million store in Telford in February 2014. The shop has many areas which require sprinkler protection. Other than the sales and warehouse roof areas, there were additional areas such as canopies, racks, Home Shopping, ducts and the underground car park.

A number of factors had to be considered during the design process. These included coordination with other building services such as heating & ventilation and electrical fittings. Other factors such as wall heights and storage racking also affect spacing and the quantity of sprinkler heads required. The programming of system installation was an important factor in the project's success and installation was carefully coordinated with Vipond providing key dates relating to design, system approvals, pipework fabrication, pumps and tank delivery, and key installation dates.

## THE SOLUTION

Vipond proposed a fixed automatic sprinkler system, designed in accordance with BS EN12845. The water supplies were provided by a 300m³ storage tank of galvanised cylindrical construction with butyl liner. This provides a 60 minute supply. A 110 KV duty and standby pump each rated at 4500l/m at 7,5 bar together with jockey pump were provided.



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## WEBSITE

[www.vipondfire.co.uk](http://www.vipondfire.co.uk)

Hazard classification determined water discharge densities throughout. The fire classifications varied across the premises ranging from ordinary hazard class 2 (OH2) in the car park, OH3 in the sales office and High Hazard in the warehouse areas. The sales offices and car park required 5mm / minute, whilst the general warehouse needed 7.5mm / minute. The potential for a deep seated smouldering fire in the George warehouse is intensified with the large volumes of clothing stored here This demanded a discharge density of 12.5mm / minute.

A total of 1,628 sprinkler heads were fitted throughout the premises with almost a half of these installed in the underground car park. 239 heads were fitted at ceiling level and in exposed voids. These were conventional pattern quick response type, brass finish, rated at 68 deg' C. Below suspended ceilings chrome finished heads were fitted. The remaining sprinklers were strategically positioned in areas such as canopies where 44 were located. 15 heads were fitted in Ducts and 28 Dry Pendant Drops were installed in Chillers and Freezers. These were trace heated and lagged together with a further 44 over the rear canopy and 4 in the entrance draught lobby. All sprinklers in public areas were anti vandal.

The sprinklers are fed from a network of steel pipe to BS 1387/3601 Vipond's policy is to fabricate pipework at its LPCB certificated workshop. This avoids the need for site welding. The installed pipe at Asda was provided with a white finish to blend with the surrounding décor.

#### THE OUTCOME

Comprehensive sprinkler protection across many hazard classifications were provided within the new store for Asda in Telford. Vipond's experience in matching the system requirements to the clients premises is underlined by it's status as a Loss Prevention Certification Board (LPCB) level 4 certificated company. The expertise of Vipond's staff ensure that the customer is provided with an economical solution covering all fire safety aspects needed to provide an effective automatic fire fighting solution.

Vipond's experience in matching the system requirements to our clients' premises was clearly demonstrated in Telford. In all our projects we take pride in identifying innovative designs and successful co-ordination with all building services and departments to achieve seamless installations.

We are confident that this sprinkler installation will comprehensively protect personnel and products, as well as customer loyalty thus ensuring business continuity and community resilience.



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#### COMPANY PROFILE

Vipond Fire Protection Ltd has its roots going back to 1969, when it was started as a small family owned business. In 1998 it was acquired by Vipond Inc of Canada. The company has since expanded and grown and now has 5 offices covering the whole of the UK and Ireland. Vipond Fire Protection Ltd is ultimately owned by API Group Inc.

APi Group Inc. is a multi-billion-dollar parent company for 38 independently managed construction companies in more than 200 locations worldwide. APi Group combines the personal attention of small-to-medium sized construction companies with the strength of a global industry leader to build a safer environment, develop leaders and bring innovation to the construction and fire protection and suppression industry. Since 1926, APi Group has grown by acquisition to become the stellar multi-billion-dollar company it is today.

The secret? Our subsidiaries maintain who they are. They keep the identity, reputation, customer relationships and culture they've worked hard to establish.

APi Group's subsidiaries have collectively served customers on all continents, including Antarctica.

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“a  
comprehensive  
sprinkler  
protection  
across many  
hazard  
classifications”