

## CASE STUDY

# Single Ply delivers for Major Retailer

Large scale, fast-track project demonstrates single ply excellence



Major supermarket giant Tesco required a large scale roof waterproofing system for its new cold store, produce store and office building on its warehousing and distribution site.

This was a project with several challenges to meet. Delivery of the 40,000m<sup>2</sup> roofing system required expert design, installation and planning to meet the requirement of the high profile retail client. FK Roofing Services installed polyester reinforced fleece backed Armourplan SG PVC roofing membrane.

The client required a fast track installation with the first 36,000m<sup>2</sup> to be completed in 6 weeks. This part of the roof design was for the cold store building which needed to operate at a temperature of 1 degree centigrade. The specification included Armourplan SG 1.5mm thick fleece backed membrane which although usually adhered to the substrate could be mechanically fastened to the 0.7mm thick top skin of the Kingspan coldstore panel due to the high performance polyester reinforcement.

Using this method meant that there was less reliance on the weather than with an adhered method which was ideal for the critical timescale. In addition the

**Project Sector:** Retail  
**System:** Armourplan  
**Contractor:** FK Roofing Services  
**Started:** August 2009  
**Completed:** October 2009  
**Size:** 40,000m<sup>2</sup>  
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2.12m wide rolls of membrane meant that the amount of welding was reduced enabling rapid installation.

Further membranes and ancillaries from the Armourplan range were specified for other buildings on the site, including Armourplan SM and Armourplan D for upstands and detail work. The buildings included the produce store (20,000m<sup>2</sup>) which consisted of a composite metal roofing system with Armourplan coated metal composite gutters, as well as other roof areas using Armourplan membrane on the Kingspan Topdek product.

The work was carefully scheduled to meet the strict timelines and weekly site inspections were carried out.

All Armourplan membranes for this bespoke design were produced by IKO PLC at its specialist single ply manufacturing site in Clay Cross, UK.

