

CASE STUDY

Kooltherm™ FM Pipe Insulation

Alder Hey in the Park

Kingspan Kooltherm™ FM Pipe Insulation is set to provide long-term energy savings for an amazing new children's hospital, built entirely within a park.



Alder Hey in the Park offers a completely new vision for healthcare provision. Its gently undulating, three-fingered design was developed by BDP and Laing O'Rourke with regular input from a group of current and former patients. The resulting 270-bed facility offers a much warmer environment for patients and their families, with large outdoor spaces on every floor and easy access to play areas. The purpose-built park hospital also boasts a top class critical care unit and 16 digitally enhanced theatres.

With the project also aiming to become “the most sustainable hospital in the UK”, limiting energy loss from building services was obviously a key consideration. As a result, Kingspan Kooltherm™ FM Pipe Insulation was specified for pipework across the facility as **Project Director, Ged Couser, from BDP explained:**

“We wanted the hospital to achieve a BREEAM rating of ‘Excellent’. The Kingspan Kooltherm™ FM Pipe Insulation product has a BRE Green Guide A+ rating, as well as being manufactured under a BS EN ISO 14001: 2004 scheme. This assured us that it would meet our expectations.”

Kingspan Kooltherm™ FM Pipe Insulation is the most thermally efficient insulation material commonly used on pipework with thermal conductivities as low as 0.025 W/m·K. The product also offers a best in class reaction to fire performance, with a Euroclass rating of B_Ls1,d0, and is FM Approved per Approval Standard Class 4924. This performance is backed with BDA Agreement® BAP 15-036/01/C. Kingspan Kooltherm™ FM Pipe Insulation has also been awarded Eurofins Indoor Air Comfort Gold certification.

The scale and complexity of the Alder Hey project meant maintaining clear communication between all construction partners was essential. To support this, the facility was pre-modelled in REVIT. Kingspan Kooltherm™ FM Pipe Insulation BIM objects can be freely downloaded from either www.kingspanindustrialinsulation.com or the BIMStore website.



In addition to its free Pipeline Technical Advisory Service which can be contacted on 0808 168 7363, Kingspan Industrial Insulation has now also launched Premier and Premier Plus Services. These services support purchases of Kingspan Kooltherm™ FM Pipe Insulation and the Kooltherm™ FM Complete Pipe Insulation System (incorporating insulated pipe support inserts and fire sleeves) respectively, delivering clear advice and guidance at every stage in a project, from the initial specification, to site visits and certification.



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