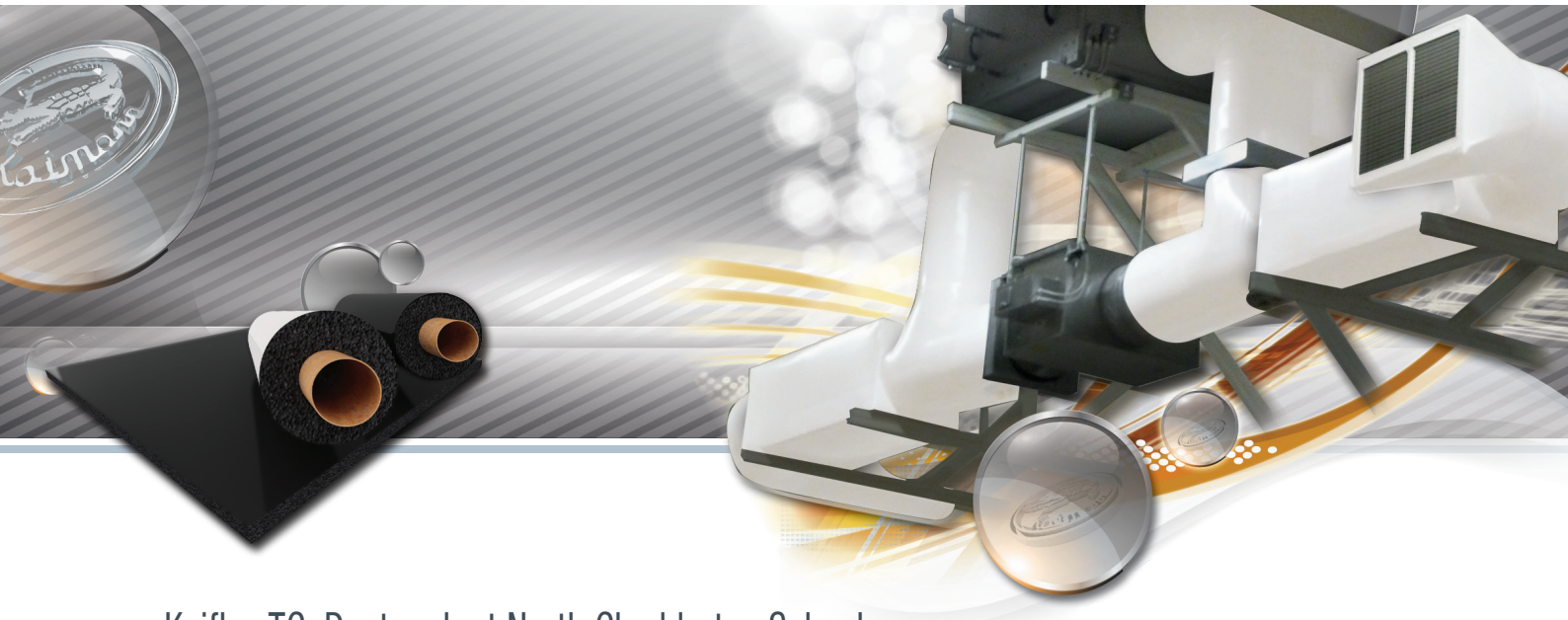


# kaiflex® project report



## Kaiflex TC: Ductwork at North Chadderton School

**Schools are large, complex buildings and must be insulated to save energy and prevent noise breakout. At North Chadderton School, Kaiflex TC was used on the ductwork to great effect.**

Successive UK governments have emphasised the importance of education and invested heavily in new & renovated school premises throughout the country.

North Chadderton School in Oldham, a large comprehensive secondary school catering to students from a

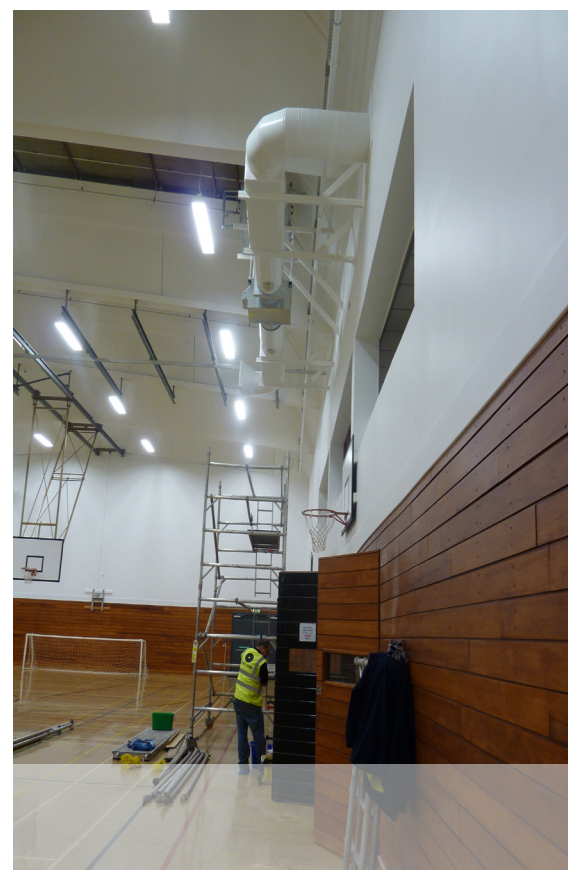
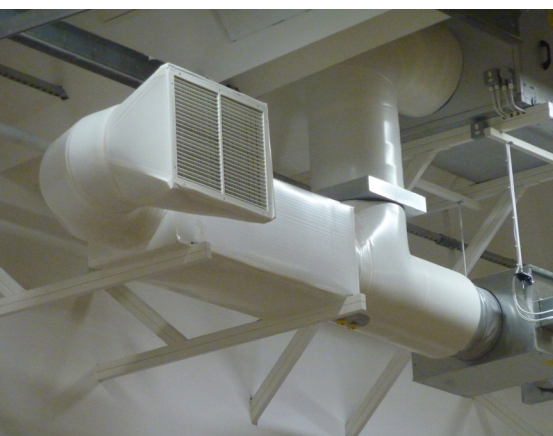
diverse range of backgrounds is just one of the schools to benefit from facilities investment. One particular area to receive major improvements was the sports hall.

As with all indoor sports halls, at North Chadderton School ducted air conditioning is essential to ensure a healthy and comfortable environment. This particular school utilises a particularly complex configuration of rectangular ductwork.

In such a naturally warm and humid environment even air ducts carrying unconditioned air can experience condensation and mould growth which would not be in keeping with a sports hall for young adults. The exceptional condensation inhibiting and mould resistant properties of Kaiflex were a major reason why Balfour Beatty chose to use Kaiflex TC insulation.

Kaiflex TC combines Kaiflex ST Class

0 insulation with a tough and resilient covering available with a brilliant white or pure black semi-gloss finish. For insulating ductwork, as in the North Chadderton School sports hall, Kaimann supplies Kaiflex TC in flat 2x0.5 m sheets that are easily cut and adhered to flat surfaces.





The results were outstanding with the insulated ductwork blending seamlessly into the white painted roof space. Aaron Fearon, Project Manager at Balfour Beatty Engineering Services Ltd., was delighted with the results, “the main objective on this project was to provide the ducts with an attractive white finish. Kaiflex TC not only gave us this but also had other insulating benefits, including sound absorption that has reduced noise breakout”.

## Kaiflex TC: Designed to be tough and durable

Nitrile rubber tubes and sheet with a tough PVC coating pre-applied, Kaiflex TC prevents energy loss and condensation whilst providing the waterproof rubber foam insulation with protection against the weather, impact, vandalism and UV damage.

Kaiflex TC is durable and visually at-

tractive. The finish resists dirt and makes Kaiflex TC ideal for use in food production and clean room locations. With inherent UV resistance, Kaiflex TC can be used outdoors without the need for additional paint or cladding. Kaiflex TC can even be used on pipe-work buried in shallow soil, on pipe connecting mains cold water to houses and on sections of ground source heat loops which require insulation.



**Weather & UV resistant for outdoor use:** Insulation used outdoors must be capable of withstanding sun, rain, wind and snow without suffering degradation. Kaiflex is available with a range of weather resistant coverings pre-applied for outdoor use.



**Durable protective covering:** Insulation is easily damaged by deliberate or accidental impact. Durable protective coverings minimise damage to the insulation and simultaneously provide a maintainable surface finish.



**Clean surface for food production locations:** Food production environments are critical locations where regular cleaning and maintenance are essential. Kaiflex insulation with an easily cleanable surface finish is ideal for food production locations.



**Inherent resistance to microbial growth:** By effectively preventing moisture ingress, Kaiflex is inherently resistant to the microbial and mould growth that otherwise compromise indoor air quality.



**In-built water vapour barrier:** Formed from thousands of independently water resistant cells, Kaiflex insulation is naturally resistant to moisture ingress and requires no additional water vapour barrier.



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