

"The Energy Savers won the public tender for this contract because it was the only supplier able to provide a product that worked with all different types of windows, including wood, uPVC, aluminium, steel and cast iron. The company was able to apply its Quattro Seal System internally without altering the aesthetics of the windows and doors. It helped that TES has experience working to English Heritage guidelines, this gave us the confidence to go ahead with the work on all our listed buildings", stated Ian Shaw, Environmental and Energy Officer, The London Fire Brigade.



The London Fire Brigade meet their 20% CO₂ reduction target in 2010 with the help of The Energy Savers (TES) Quattro Seal Draught Proofing System.

The London Fire Brigade is one of the largest fire fighting and rescue organisations in the world, serving London's 7.5 million residents as well as those who work in, or visit the city. It spends about £430 million every year and employs some 7,000 people, of whom about 5,800 are uniformed operational staff. The majority of its buildings are old, having been built between 1887 and 2010. 30% are listed or in a conservation area, and therefore subject to English Heritage and conservation standards.

The Challenge

The London Fire Brigade's challenge during 2010 was to improve working conditions within often very cold, draughty buildings. The organisation needed to find a draught proofing solution that enhanced the windows and made them more weather proof without changing their appearance, thereby conforming to the guidelines imposed by many different conservation authorities within the boroughs of London. It was also critically important that all work should be completed with the minimum of disruption to staff - The London Fire Brigade had to continue to stay operational at all times.

The Solution

The London Fire Brigade appointed The Energy Savers (TES) in November 2010 to implement draught proofing within 130 of their fire stations across London. TES's unique Quattro Seal System was applied to windows and external doors, giving the windows the advantage of double glazing at a fraction of the cost. TES also installed over 500 Quattro Panels, its energy efficient reflective radiator panels, which can be easily placed behind existing radiators without any need for them to be removed.

Quattro Seal

- Unique permanent draught proofing system
- Can be fitted to any style of window or door
- All the benefits of double glazing, at a fraction of the cost
- Ideal resource for hard to treat buildings that cannot be changed.

Benefits

- Faster warm up times and longer heat retention
- Up to 27% energy savings as per the BRE report
- Reduction in draught driven complaints
- Increase in comfort levels
- Reduction in noise up to 10db in city areas with single glazing
- Reduction in cleaning – thus reducing cleaning cycles
- Maintenance free for its life
- Greater durability than that of other systems
- 5 year unconditional guarantee covers labour and materials
- Major reduction in fuel bills and boilers and controls will work far more efficiently.

Tadpole

- Unique device fitted to your existing heating system
- Removes air from the heating water
Can achieve savings of up to 29% in heating bills
- Eliminates the formation of magnetites.

Benefits

- Guaranteed to outlast all the other components in a heating system
- Easy to install
- Only two connections, can be fitted in less than two hours.

Airoseal

- Developed for the social housing sector and approved for CERT
- Ideal system for hard to treat buildings
- Ideal resource to help alleviate fuel poverty.

Benefits

- Resolves problems of neglected gaps around windows and doors, frame to wall and under sills
- All installers work to high standards and are CRB checked
- Anti social hours are worked to accommodate clients' work times
- Schemes start at 100 flats upwards unless on a rolling programme
- All works carry a 20 year guarantee to coincide with CERT.

"The Quattro Seal Draught Proofing System has made a big impact. The buildings are warmer and more comfortable for staff, particularly during the cold, winter nights. The solution was quickly and efficiently applied to fully operational fire stations, and the result looks good and works well.

Significantly, we were able to take advantage of budgets available to the public sector through the Carbon Trust and Salix Finance. The savings that we make on fuel bills can go straight back into our fund for further energy reduction projects", commented Ian Shaw, Environmental and Energy Officer, The London Fire Brigade.

The Result

The installation program was successful. It involved The Energy Savers surveying all 130 fire stations to provide a detailed program of works to be undertaken for LFB. The work was then scheduled, which involved liaising with the HQ project coordinator and individual Station Managers to gain suitable access times around busy Fire Stations, ensuring H&S procedures were followed. The work was completed within the project timescales.

"We worked around emergency call outs as well as legal strike action during the course of the project. The contract finished ahead of schedule and we are happy to say that additional fire stations have been added for future draught proofing treatment," commented Peter Rigby, The Energy Savers, Southern Region Area Sales Manager.

During 2010/11 the London Fire Brigade won the London Borough of Islington's Giant Green Business Award for CO₂ Reduction and during 2010/11 it was shortlisted for the Sustainability Live Energy and Environment award. It also achieved an award for Best Energy Efficient Refurbishment.

The Energy Savers

TES is a limited company established in 1991 and has proudly been supplying the Public Sector for over 20 years. Its BRE tested Quattro Seal Draught Proofing System and CERT rated Quattro Panel energy saving reflector radiator panels are aimed at Public and Private sector properties as a retrofit with grant schemes available via The Carbon Trust and SALIX Finance.

These products have been fully assessed by the Building Research Establishment and are now considered a major resource in helping clients achieve their CRC targets and reducing fuel bills.

The company also provides Tadpole, a unique device which improves the efficiency of domestic heating systems; and Airoseal which is a draught proofing system specifically designed for Housing Associations that helps alleviate fuel poverty for hard to treat buildings. Airoseal is approved for CERT.

The London Fire Brigade

The London Fire Brigade (LFB) is the UK's largest fire and rescue service, working 24 hours a day to keep the capital safe from fires and responding to emergencies. The LFB employs approximately 7,000 staff of which 5,800 are operational fire-fighters and officers. LFB is the third largest fire-fighting organisation in the world, protecting people and property from fire within the 1587 square kilometres of Greater London.

As well as fire-fighting, the LFB also responds to traffic collisions, floods, "trapped in lift" releases and other incidents such as those involving hazardous materials, and major transport accidents. It also conducts emergency planning and performs fire safety inspections and education.

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