



Schools & Education Sprinkler Fire Protection

The Challenge

Sprinkler systems are the only effective solutions to ending the destruction of over 2,800 schools a year that succumb to the effects of fire.

The benefits of sprinkler systems are universally recognised for use in educational environments because they detect, suppress and control fires as well as providing early alarm,

Tyco Fire & Integrated Solutions is also universally accepted as the leading provider of sprinkler systems, which is why we have installed sprinkler systems in more schools, universities and other educational establishments than any other organisation. Our fast facts speak for themselves.

Our KIDS Sprinkler Fast Facts:

To date we have:

- Protected over 150 schools/universities
- Been involved in over 50% of all Sprinkler protected schools
- Protected more than 45,000 pupils and teachers each day from the threat of fire
- Installed over 70 miles of pipe in schools
- Managed over 200,000 man hours on these sites
- Had no major safety incidents reported on site

a vital part of your world

Vital Values

- Knowledge & understanding of the school market
- Innovative solutions
- Dedicated schools design & engineering team
- Specialist Service & Maintenance solutions with extended Education Care Agreement warranties



No matter how demanding your requirements may be, there is nothing beyond the ingenuity, skill and expertise within the realms of fire protection.

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Introduction - Our Values, and Offering

Every minute of every day around the UK, tens of thousands of children, teachers, ICT and learning Environments are protected via our systems.

Our fire and safety solutions (which are specially designed to meet the particular requirements of our customers) provide the 'vital link' in the protection of our learning environments. Our capabilities include the protection of small, refurbishments to primary schools right through to BSF multiple large scale secondary school projects.

We operate dedicated teams, vastly experienced in this sector who have developed knowledge and ingenuity to ensure that our systems aid in the development of 21st century education facilities – the installation of automatic sprinkler systems, not only ensures protection of life, property and the environment - they will also enable more interesting learning spaces to be created.



Knowledge & Understanding

Schools are often complex projects - by their nature and through the desire to create 21st century learning environments, projects incorporate challenging atriums, innovative building construction techniques and featured ceiling arrangements.

Our teams fully understand the drive and focus on new school projects, and when involved early in the process can provide invaluable support to the design team and ensure that when sprinkler systems are installed they provide the designer with enhanced flexibility (such as enhanced travel distances and compartmentation allowances, reductions in number of emergency access routes/stairs and reductions to structural fire integrity).

Similarly our project managers are highly skilled and experienced engineers, and working in this environment is now common place to them - we offer a large skill base, with the capability to manage several multi school projects simultaneously. Through pre and post sales consultancy and support our expert teams provide invaluable assistance to clients, often developing specific solutions to meet particular needs – our areas of expertise include:

- *Cost planning (particular for large PFI projects)*
- *Design/solution development & Integration of proposals into workable solutions*
- *Assistance in understanding local authority/fire officer requirements*
- *Training in technical standards*
- *Partnering*

Innovations

Our quest for development is continuous – this through both product and system developments, but also through the development and training of our teams. We are vastly experienced with working with all associated trades and teams in the education market – such as M&E, steelwork, modular and ceiling contractors; we pride ourselves on our reputation with our fellow trade contractors and have developed excellent working relationships with these parties. This allows for new working methods to be discussed, different approaches to problems to be considered and ultimately a modern, conscientious working environment to be developed.



Concealed Sprinkler Heads



Rapidrop sprinkler pipes

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Success in the education market requires innovation; we have executed well over 75 projects in this challenging environment and have developed key skills, products, and philosophies for success. Our innovations include:

- *Concealed sprinkler heads*
- *Rapidrop*
- *Modular units*
- *Buried water storage tanks*
- *Aquatherm piping*
- *Creative design engineering*
- *Triple P Smart Pump*
- *Dedicated project teams of experts*
- *Dedicated procurement teams*
- *Proactive education strategy*



Triple – P Smart Pump

Design & Engineering Quality

For over 120 years we have been providing fire protection to the highest quality standards, our team truly are the best in the industry and it is our team and procedures which ensure these standards are always paramount in our development. Increasingly in distribution projects programmes and timescales are becoming faster and shorter as clients require their facilities to be operational with almost immediate effect. It is our portfolio of projects of this nature which reflects the quality of our teams.

How do we guarantee quality? We operate a highly specific and detailed quality assurance system, which is now all web based on our information portal – this portal is the ‘home’ of our knowledge and experience and allows our site engineers to access any and all information with the click of a button.

Working in tandem with the information portal is our design package ‘firecad’ – fireCAD integrates our hydraulics packages with conventional autocad, this resulting in our ability to work in autocad format with general industry and then converting our working/fabrication drawings into hydraulic node drawings which are required to prove system flows, pressures and densities. Our purchasing is through pre-qualified vendors only, this supply chain guarantees our ability to meet the most demanding construction programmes and ensures we maintain the quality of product supplied – all of our supply chain are continuously audited and inspected to ensure our standards are not only maintained, but improved.

At Tyco Fire & Integrated Solutions we pride ourselves on our commitment to working with you, our customer to provide you with a solution which gives you the security that your supply chain is well protected, but remains cost efficient – this we further develop by working with your team to aid in the general engineering of a project and invaluable assistance in working methodology.

Service & Maintenance

Tyco Fire & Integrated Solutions provide an unparalleled range of services and support for single sites through to multi-site mission critical areas where clients require zero down time to guarantee business continuity.

We regularly formulate long-term maintenance strategies and policies for the effective management and development of property and its assets for sectors such as financial services, pharmaceutical, transportation, manufacturing, retail warehouses and government. The secret to our success is our National resources with a large network of offices providing local support to our customers.

These demanding sectors require delivery on budget, on time and every time. We don’t deal in assurances, just guarantees. We don’t just say we can deliver, we prove we can deliver so that our clients can focus on their core business without doubts, worries or downtime. Our standards of operational excellence, resources, skills, customer commitment and vision are the envy of our industry. Because our customers have unparalleled access to the Key Performance Indicator reports of our Service Engineers, they know as much about the efficiency of our staff as we do. At the “click of a mouse” our extranet facilities give our key account customers complete transparency of their service account. Customers can access every aspect of their account down to the smallest possible detail.

Project Experience

Our engineers across the UK work on education sites each and every day, from service, call out and maintenance visits to large construction projects - this document features some of the larger schools projects undertaken over recent months and briefly itemises contract volumes and areas:

Leeds PFI Primary Schools

Client

Leeds County Council

Main Contractor

Wates Construction

Period

12 Months

The project incorporated the construction of 10 new primary schools to replace old and outdated schools in and around Leeds. Tyco Fire & Integrated Solutions provided protection throughout all the schools (circa 3,500 sprinklers) and a combination of cylindrical and rectangular storage tanks and electric fire pumps.

Telford & Wrekin Schools

Client

Telford & Wrekin Council

Main Contractor

Interserve

Period

18 Months



The Hadley Learning Community is part of the Borough's first Private Finance Initiative (PFI) programme and is an exciting new development designed to provide top quality education with purpose built areas for 21st Century learning including a new 1200 place secondary school, the relocated Bridge Special School and a new 420 place primary school.

Community facilities include a crèche, nursery and childcare support, health services for young children, a learning resource centre, 150 seat theatre, cafe, swimming pool, fitness gym and sports pitches. The Jigsaw Project, also part of the PFI programme, will include provision for a group of vulnerable young people who currently reside and are educated outside the Borough. To cater for up to 30 young people, Jigsaw is intended to become a beacon for integrated education, social and health care in the borough and across the region.

Rochdale PFI Schools



The Project involved the entire re-organisation of Rochdale's special education provision, incorporating the financing, design and construction of 4 new school campuses. The Project will be one of the most significant developments in Rochdale's education provision with five existing special schools being replaced by three new schools, each co-locating each with an existing mainstream. Tyco Fire & Integrated Solutions secured this prestigious contract and work commenced during June, 2006. . If you would like to learn how we can protect your "school of the future" for the foreseeable future from the threat of fire, e-mail us at tfis.schools.uk@tycoint.com

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