

# Timber

**CONSTRUCTION**

[www.timberinconstruction.com](http://www.timberinconstruction.com)

## The flagship T1 Tower

Medite panels provide the perfect fit

Summer 2009

£4

**Building blocks**

Building schools for the future

**Bullet proof**

The latest in timber protection

**Insulate to accumulate**

Thermal performance

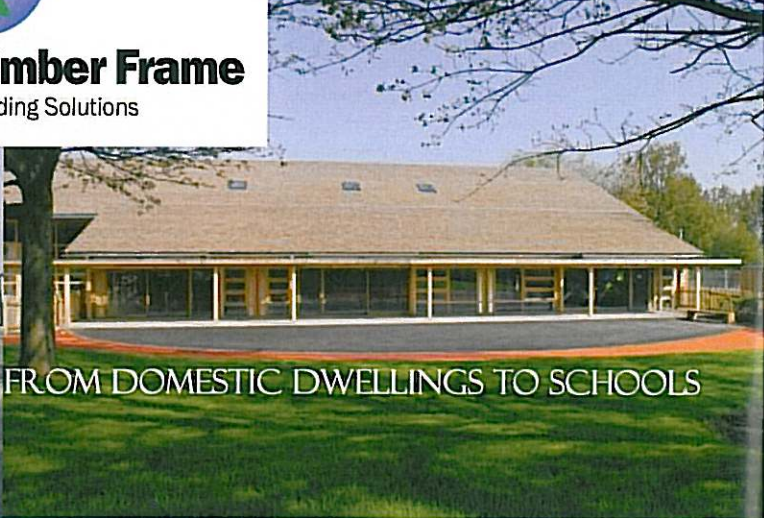
**Canada dry**

Review



## New World Timber Frame

Ecological Building Solutions



BUILDING TIMBER FRAME STRUCTURES FROM DOMESTIC DWELLINGS TO SCHOOLS

### ST Luke's School, Wolverhampton's new flagship building in Education

To be completed in time for the opening for the beginning of the school year in September 2009. The estimated cost of the project was £7million to be built on behalf of Wolverhampton City Council. Construction on the site began on 5th December 2007. The land became available for the school when tower blocks on the old Blakenhall Gardens Estate were demolished.

New World Timber Frame began work on the site in May 2008 and had completed the timber frame structure in January 2009. The new St Luke's CofE Primary school is a flagship project creating a radical new primary school at the heart of Blakenhall as part of a regeneration scheme in the area. St Luke's CofE Primary School has been built to educate 420 pupils with an additional 30 place Nursery. The aims of the project are to provide access to high quality education, learning and recreational experiences for the community and all pupils, a stimulating, safe and secure environment welcoming to all those involved in the life of the facility, flexibility to adapt to future changing circumstances, an environment which facilitates individual learning and use of a range of teaching methods. The School incorporates many teaching aids including an isolation dome (pictured below) where pupils will be sent to for misbehaving, the dome plays calming sounds combined with a light show to provide a calming atmosphere for pupils to return to a class in a less disruptive frame of mind.

New World Timber Frame manufactured and erected the timber frame structure. The external walls were manufactured off site, using 300mm I-beam joist system. Both faces were sheathed with Panel Line and Panel Vent. Covered internally with vapour check membrane, external face was covered with a breather membrane. The floor was built on a cassette system using I-Beam joists and were craned into position. The roof was built using 400mm deep engineered I-Beam joist and erected using the same principle as the floor system. The Building was insulated using Warmcel recycled news paper mixed with fire retardant salts. With an impressive thermal conductivity value its performance is further enhanced by its ability to create a high level of air tightness to help seal a building against air infiltration and prevent thermal convection currents. The proven method of application ensures that the insulation provides a complete seal to prevent heat loss, eliminating gaps, cracks or cold bridges.

A time lapse camera video of the construction can be seen on [www.youtube.com](http://www.youtube.com), by using St Luke's School Wolverhampton as the search topic.

