

A sustainable school for the future

We are working in partnership with Midhurst Rother College to build a sustainable school. The following details what we're doing in the design and in the construction of your new school to maximise sustainability.

Energy Efficient Design

- ▶ Energy efficient gas fired condensing boilers
- ▶ Natural ventilation
- ▶ Heat recovery systems
- ▶ Energy efficient lighting
- ▶ Smart Lighting Control System
- ▶ Energy metering and sub-metering

Low Carbon Design

Biomass Boiler – capable of meeting approximately 50-60% of the anticipated peak design load. The biomass boiler will provide an optimised proportion of the annual heating demand, to reduce carbon emissions, with the remainder provided by gas-fired boilers and air source heat pumps.

Water Efficient Design

- ▶ Water metering and sub-metering
- ▶ Low water use fixture and fittings will be installed including dual flush toilets, low flow showers, aerated taps and PIR (presence detection) controlled outlets

Sustainable Materials

All wood based products will be sourced according to our sustainable timber policy. We always seek to procure timber only from independently certified, legal, and sustainable sources (e.g. FSC).

Balfour Beatty
Construction



SUSTAINABILITY
...a collective responsibility



Balfour Beatty

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Midhurst Rother College
The best in everyone™
A member of United Learning Trust

Environmental Limits

100%

of inert waste is being recycled at Midhurst Rother College

Ecological Enhancement

We are also working to protect and enhance the Ecological environment around the school. The following will be undertaken as part of the project:

- ▶ Creating tree protection zones;
- ▶ Tree planting: Significantly more trees will be planted than are to be removed and these will provide habitat of ecological value in the future. New trees will include fruit trees, including varieties of apple, plum and pear, which will provide blossom and fruits that can be exploited by birds and insects.
- ▶ Hedgerow Protection: Creation of a new hedgerow along the north-west site boundary, approximately 200m in length. Existing Hedgerows will also be enhanced.
- ▶ New areas of introduced shrubs will be incorporated into the soft and hard landscape areas around the new buildings and car parks.
- ▶ Building and installing badger gates, bat boxes, bird boxes and reptile habitats.

Waste

Waste is one of the biggest sustainability impacts on any construction site. We therefore manage our waste very carefully on site following the waste hierarchy:

- ▶ All waste materials are segregated on site, doing this maximises the recyclability of the waste materials
- ▶ Reuse of onsite excavated soils from foundations to form landscape bunds and sports field amphitheatre
- ▶ Reuse of topsoil for soft landscaping and temporary run-off bunds
- ▶ Recycle old school furniture to UK charities or developing countries
- ▶ Reuse of plasterboard off-cuts for air sealing
- ▶ Crush all existing concrete on site for reuse as temp hard standings/piling mat.

Waste Reporting

- ▶ **100%** of inert waste recycled (target >90%)
- ▶ **100%** of wood waste recycled (target 85%)
- ▶ **100%** of metal waste recycled (target 100%)
- ▶ **75%** of mixed waste recycled (target 75%)

Local Employment and Skills

Employing locally, providing opportunities to the unemployed and students are key to our corporate sustainability strategy. At Midhurst we have (or plan to have):

- ▶ **2** apprentices on site;
- ▶ **6** opportunities for the unemployed; and
- ▶ **4** work experience placements for students.

Sustainability and Balfour Beatty

Sustainability is very important to Balfour Beatty Construction. Our 2020 vision is to:

"...deliver, manage and own sustainable infrastructure that helps communities and individuals live within environmental limits."

We are working hard to embed sustainability in everything we do. As a business we are aiming to achieve the following by 2012:

Creating Profitable Markets

Creating Healthy Communities

Working within Environmental Limits



Please visit: www.balfourbeatty.co.uk/bby/sustainability for details on our sustainability vision.

Healthy Communities

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opportunities for local labour at Midhurst Rother College

