

Sustainability

A number of ventilation, heating, cooling and lighting design options were modelled which helped to identify the most appropriate solution for the environmental design. This resulted in:

- low leakage plant
- variable air volume systems

- variable speed cooling plant
- lighting controls
- passive solar systems
- innovative heating controls.

Windows are triple glazed to enhance noise reduction.

Spring 2005 ●●●●● Outline business case
 December 2005 ●●●●● PSCP appointed
 May 2006 ●●●●● GMP agreed
 August 2006 ●●●●● Enabling works started
 January 2007 ●●●●● Main construction

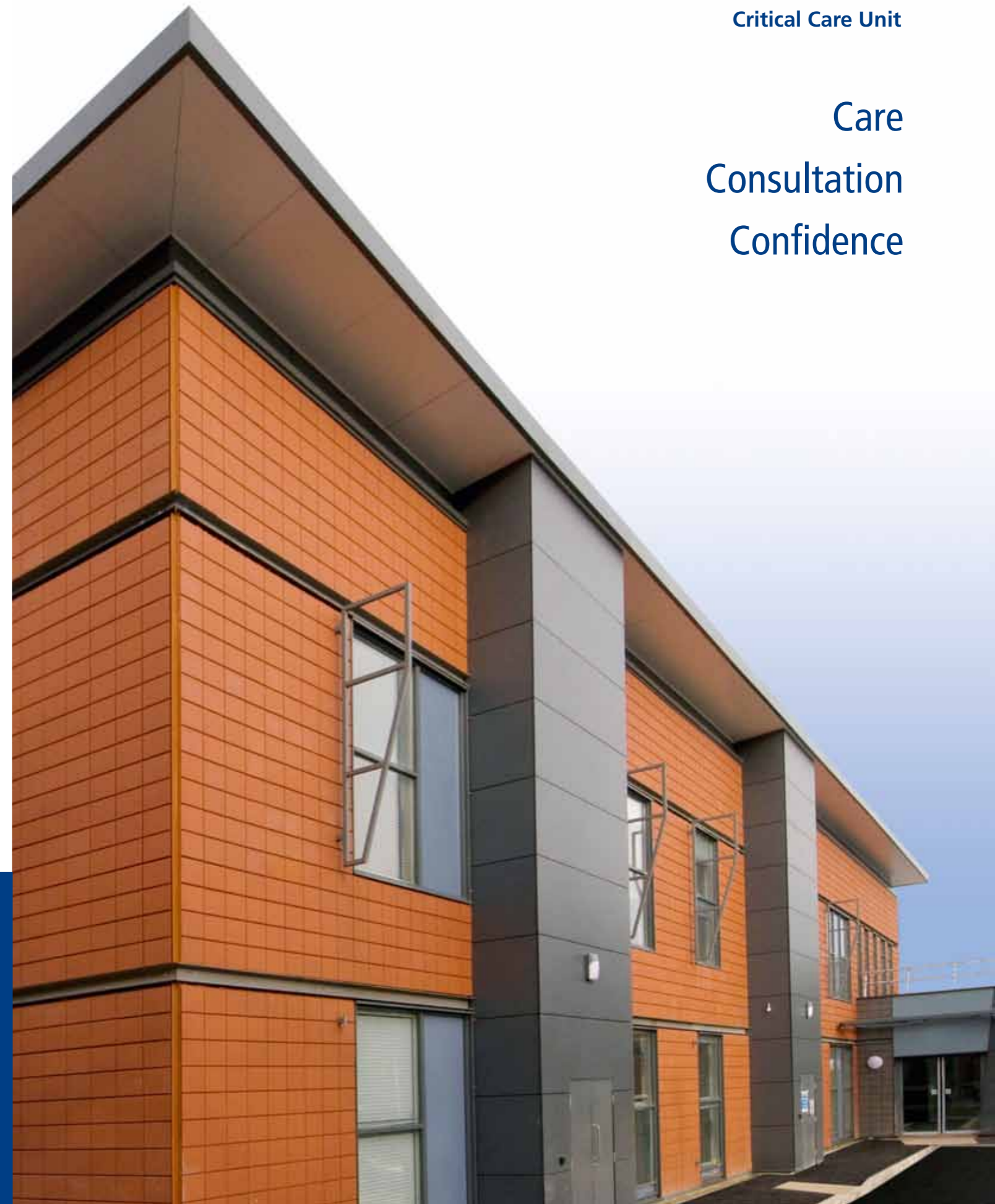


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Mark Hattersley

Building for the future

Advanced intensive and high dependency care technology is now available in Sheffield thanks to a successful ProCure21 partnership.

Northern General Hospital takes 70% of Sheffield's adult emergency medical admissions and is the city's centre for burns, spinal injuries and cardiac conditions.

The existing 17-bed Critical Care Unit (CCU), together with a seven-bed Post Operative Surgical Unit (POSU), had provided an excellent level of care. But the number of beds did not meet rising demand. An ageing population meant this was set to worsen and the Trust knew it had to get new facilities.

Sheffield's new CCU is one of the largest in Europe and was completed on time and within budget.

The unit can accommodate 36 patients, 20 of them in single rooms. Intensive care is on the ground floor with high dependency and POSU beds on the first floor. The unit houses some of the most advanced intensive and high dependency care technology available today.

With rooms big enough for x-rays or minor surgical interventions, the need to move patients from the unit to other departments is greatly reduced. Other features include:

- pharmacy
- enhanced oxygen supply network
- IT clinical information system
- garden where patients can be taken in their beds while still connected to equipment.

Users asked for the building to be designed with all services well away from clinical areas. So all the building services plant is located within a rooftop plant room that was built off-site. At 900m² this is one of the largest off-site prefabricated plant rooms ever built in the UK and was installed over a five-day holiday period.

NHS Bank

The CCU was the first ProCure21 scheme to get NHS Bank funding.

The strategic health authority provided £3 million and the Trust borrowed the remainder through the Foundation Trust Financing Facility, otherwise known as the NHS Bank.

In approaching its application for NHS Bank funding, the Trust was able to provide more guarantees of delivery and cost through ProCure21 than would have been possible under the traditional tendering process. The CCU project used the ProCure21 Design and Risk Tool which helped to identify and manage the client and contractor risks. This further strengthened the business case by providing the Trust with even more certainty about delivery date and final cost.

With his 27 years' experience in NHS building work, the Trust's Project Director, Mark Hattersley, is well placed to assess the value of ProCure21.



the Royal Hallamshire.

One was refurbished under ProCure21, the other used traditional tendering methods.

He has now completed nine projects with this Principal Supply Chain Partner (PSCP) with a further half a dozen in the pipeline.

Reduced risk

"One of the many advantages of a long-term relationship with a PSCP is that they know the ground conditions and movement problems they will meet on our sites," he said. "That means that the risk element is reduced so less money has to be put aside for contingencies. This means there's more money available to the Trust.

"The consultation process that comes with ProCure21 means I have every confidence that the PSCP will deliver what the doctors, nurses, staff and patients want. Under ProCure21 no one ever complains they weren't consulted."

Mr Hattersley's confidence in ProCure21 is backed up by a study the Trust conducted after the refurbishment of two wards at its other main hospital,

While the bill for the ProCure21 project was higher, it was finished earlier allowing patients back in sooner and generating income for the Trust. So ultimately, ProCure21 proved to be better value for money.

"We've now been in the new building for some months," Mr Hattersley continued. "The PSCP has been very attentive to the snagging that is always needed after completion. They've been operating on an on-call basis for us."

Paul Cleminson, Health Lead for BAM Construction, said this was another successful co-operation with the Trust and was the result of the open and honest relationship the two sides have built up.

"An important aspect of this relationship is the strength of the team's ability to provide satisfaction and not to become complacent," he said. "This is driven by the team's ability to challenge and is on agendas of all meetings!"

Facts and figures

Project
Critical Care Unit

Location
Northern General Hospital, Sheffield

NHS Trust
Sheffield Teaching Hospital NHS Foundation Trust

Principal Supply Chain Partner
BAM Construction

Trust Project Director
Mark Hattersley

Contract value
£14.35 million

Building size
3,200 m²

Start on site
August 2006

Completion
January 2008

