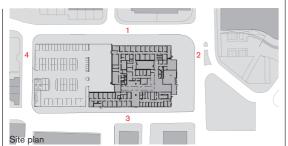
## Technical Study

## Fit for purpose

Sonnemann Toon injects colour and flexibility into a difficult health centre scheme in Coventry, writes *Felix Mara*. Photography by *David Butler* 

ealthcare design, once shunned as dreary by many architects and a field which involves high levels of competence and accountability, is now as cool as in its 1930s idealistic heyday. Lubetkin and Aalto would applaud recent exemplars, including the best Maggie's Centres and Teenage Cancer Trust wards and AHMM's Kentish Town Health Centre. Healthcare is a tonic for architects weary of catering for a Trimalchio's feast of vacuous commissions for image-conscious clients, providing opportunities to use design skills to improve the way these buildings work and feel. But, as observed by Cressida Toon, a partner at Sonnemann Toon Architects, whose City of Coventry Health Centre (CoCHC) opened in December, they have increasingly complex briefs.

'CoCHC was commissioned at a pivotal time for healthcare design,' says Toon. 'There were significant regulatory and guidance updates, including the final version of *Health Building Note 11–01: Facilities for primary and community care services*, which highlighted standardisation and flexibility, and the publication of *Health Technical Memorandum 08–01: Acoustics*, the *Health and the Social Care Act 2008: Code of Practice for health and adult social care on the prevention* 



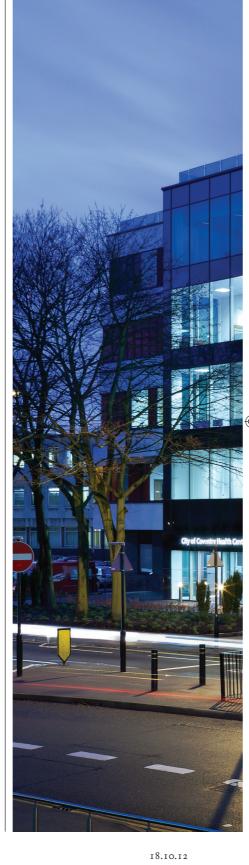
and control of infections and related guidance, and BREEAM Healthcare.'

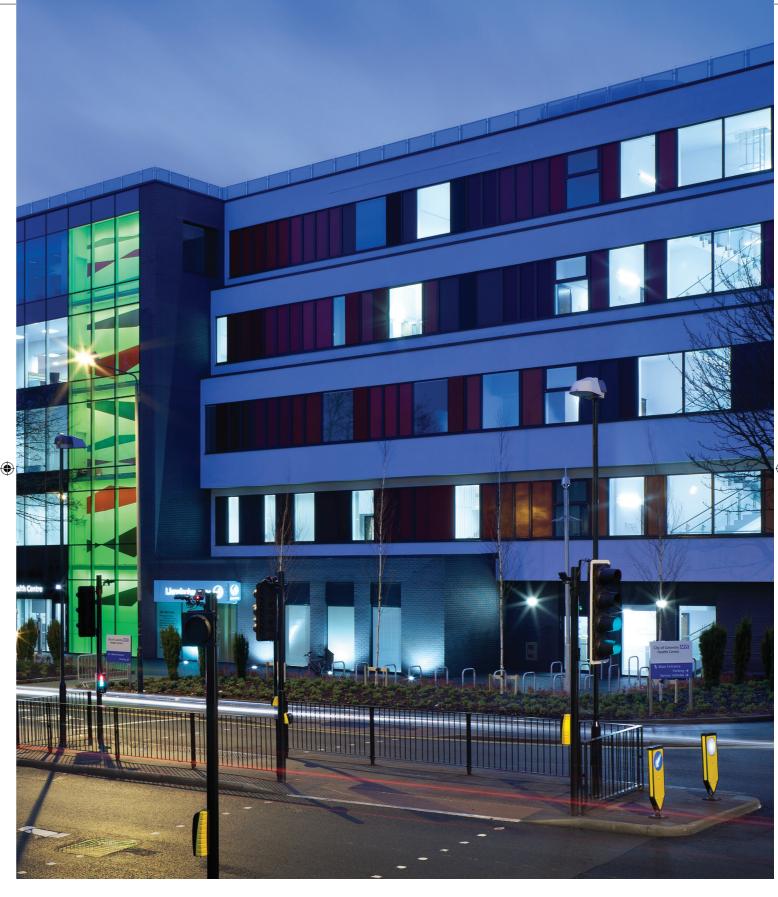
CoCHC was a tough commission as a large project with a tight budget, comprising GP practices, a walk-in clinic, podiatry and physiotherapy, plus child, family and sexual health services. An internal street with double-height, sky-lit atria channels visitors through the building and improves orientation by displaying first-floor GP accommodation. To provide flexibility, Sonnemann Toon specified post-tensioned slabs and developed modular consultation and treatment rooms. Each upper floor has a single waiting space for various services.

But the main feature was the oscillating floor plates strategy, with slab edges stepping in and out from one floor to another, providing further adaptability and enabling departments to expand and contract, and offering spacious waiting areas alongside >>

- Howard Street
   Stoney Stanton
- Byron Street
   Russel Street
- 0 20m

Right MacKay
Design Studio's Neil
Musson designed a
five-storey lighting
installation to mark





44 THEAJ.CO.UK 18.10.12 18.10.12

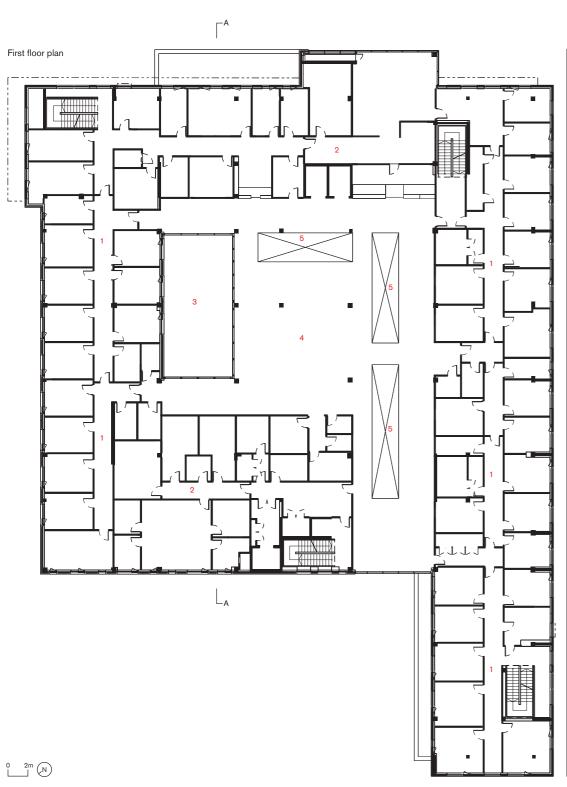


## City of Coventry Health Centre

Sonnemann Toon Architects

**(** 

46 THEAJ.CO.UK





Opposite, from left Waiting area

with typically high

naturally light level and ceiling; wards are included in

the overall colour

strategy; a courtyard

admits daylight and variously coloured solid ventilators and panels animate strip windows above; Ground floor street

with ceramic tiles

18.10.12

coordination

5. Void

other, more intimate ones. This also addressed the perceived need to break up the facade and reconcile CoCHC's scale with smaller neighbours, using colour to reinforce surface modelling and cast shadows to avoid a monolithic, repetitive impression. Purists might consider this design strategy forced and meretricious, but it certainly won the planners' support.

In its way, CoCHC is an imageconscious building and this extends to the use of colour, lighting and graphics. On a practical level, this assists wayfinding. Colours are used to identify floors and department entry points. Working with Frances Tobin Design, Sonnemann Toon, aware that this strategy can look garish, specified charcoal-coloured ceramic tiles, white walls and walnut doors



 $\bigoplus$ 

- Administration
   Courtyard
   Sexual health

- services
  4. Child and adolescent menta health services

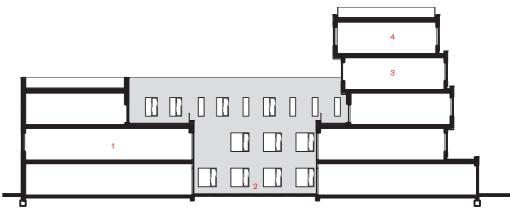


as a subtle backdrop to chromatic highlights. Like the facades, the interiors use colours which relate to Coventry's industrial past by referring to different types of metal.

After consulting groups working on each floor, copper was chosen for level two, where sexual health services are located, because it was considered a warm, reassuring colour, suitable for its predominately young patients. Steel was picked for the level four, for its calming effect on patients with mental health problems. A timeline mural provides visual interest on the ground floor and waiting areas are identified by printed vinyl wallpaper, designed by Kelly MacPhee after Coventry University School of Art and Design students were invited to compete for this commission. >>







18.10.12



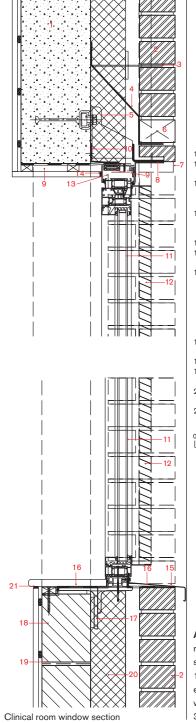






## City of Coventry Health Centre

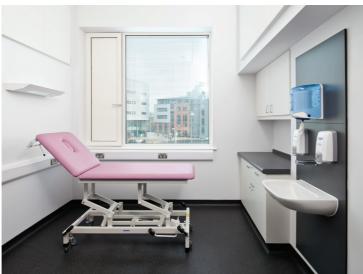
Sonnemann Toon Architects



- RC downstand
   Clay facing brick
- 3. Wall tie 4. Cavity tray
- 5. Continuous
- masonry support 6. Weep hole 7. 30mm gap to allow
- for slab deflection 8. Aluminium profile to cover underside of
- window support 9. EPDM membrane to be extended
- to full depth of downstand 10. Window slip fixing
- 11. Schüco aluminium
- 12. Fixed screw spline louvre with bird 13. Expansion profile
- 10mm below structural opening
- 14. Fixing lug 15. 2mm aluminium outer sill
- 16. EPDM membrane applied continuously below windows and spandrel panels frames and sill to
- waterproof junction 17. Steel support
- angles 18. Blockwork
- 19. Bed joint reinforcement 20. Partial fill cavity
- 21. Underside sill 900mm above FFL



3m-high ceilings



CoCHC achieved the BREEAM Healthcare 'Excellent' rating required for the Strategic Health Authority's approval of its proposal and was one of the first healthcare projects to target an 'Outstanding' rating. Sonnemann Toon had previously worked with the self-assessment methodology of the NHS Environmental Assessment Tool and relished the challenge of third-party assessment. The success of the environmental strategy rested on good co-ordination and passive low-energy design, with summer passive purge ventilation. A number of conflicts involving infection risks needed resolution. For example, acoustic absorption required to control reverberation from concrete, which was exposed as a thermal regulator, and to avoid institutional suspended ceilings, was applied to walls rather than ceilings, and window blinds are external. The BREEAM process encourages consultation, which seems marginal to an environmental assessment method, and nearly undermined CoCHC's cohesion, for example, in the design of the murals. But, despite the tight budget, Sonnemann Toon retained artistic control and achieved high design

Project data START ON SITE March 2010 January 2012 GROSS INTERNAL AREA 10.181m<sup>2</sup> Local Improvement Finance Trust TOTAL COST £22.5 million £2,210 CLIENT NHS Coventry Coventry Care Partnership Mark Brock Consulting Engineers Couch Perry & Wilkes Holbrow Brookes Integral BREEAM ASSESSOR 3 Planets DESIGN AND COLOUR CONSULTANT Frances Tobin Design PROJECT MANAGER
Coventry Care Partnership CDM CO-ORDIN APPROVED BUILDING INSPECTOR HCD Building Control MAIN CONTRACTOR Galliford Try CAD SOFTWARE USED MicroStation ESTIMATED ANNUAL CO. EMISSIONS 17.8kg/m<sup>3</sup>

AIRTIGHTNESS AT 50PA 5.73m<sup>3</sup>/h.m<sup>2</sup>

48 | THEAJ.CO.UK 18.10.12

and performance standards. ■



