



Circle Health, Birmingham

**Client**

Circle Health

**Contractor**

Simons Group

**Steelwork Contractor**

Caunton Engineering

**Structural Engineer**

Bryden Wood

**Architect**

Bryden Wood

**Steel**

400 tonnes

Caunton Engineering have completed the contract for the steelwork for the second phase of the new Circle Health private hospital in Birmingham's medical quarter in Edgbaston. The company also supplied the steelwork for Phase One. Phase one included three operating theatres (expandable to six), an endoscopy procedure room, and 18 in-patient bedrooms, requiring 500te of structural steelwork. Phase Two is a dedicated rehabilitation centre requiring 400te of steelwork.

The key aspect of the architect's design approach had been to create a form of "adaptive architecture", giving the client the ability to adapt the building as its needs change. The hospital is therefore based on an expandable steel-framed model which can be adapted and enlarged to meet clinical demand now and in the future. For example, in order to accommodate Phase Two, a number of transfer beams had been included along the ground floor ceiling to support the column grid change for the Phase Two first-floor rehabilitation gym that covers the area adjacent to the plant area. Again to accommodate Phase Two, some Phase 1 members were over-designed in order to accept possible future loadings.

Caunton had pre-welded a series of stubs to the top of the uppermost columns and beams. This was in anticipation of easing the installation of Phase Two members. Phase Two also included a second floor for the main building known, as Block C, which measures 75m long by 32m wide.