

## Case: Broomfield Hospital, UK

### Aesthetics and indoor climate on the agenda



*Broomfield Hospital, Chelmsford, UK*



*KE DireJet textile ducts with 24mm nozzles*

#### **KE Fibertec was the natural choice**

Having already supplied textile ductwork for the ambulance call centre to the same hospital site in 2004, KE Fibertec were the natural choice to supply a new ventilation system to the atrium linking the main hospital building to the new wing.

#### **FACTS:**

Contractor: Broomfield hospital, Chelmsford, UK  
Consultant: White Young Green PLC  
Installer: KE Fibertec UK



### Tailored ductwork to fit the building

Both the consultant and the architect wanted the system to follow the curved walls of the building in a series of arcs of  $\frac{1}{2}$  D duct 550mm high and 1100 mm deep. The duct was made in this shape, wide and flat in a quadrant, in order to conceal an unsightly 1000mm wide walkway.

The duct is supplied in multiple short sections to ensure that there is no more than 30mm between the wall and the duct. In the centre, the air supply rises up from the fabric duct into a service void to get around the high level walkway.

To fit with the colours of the walls and the floor all ducts were coloured in RAL 9010 which made them integrate nicely with the interior design.



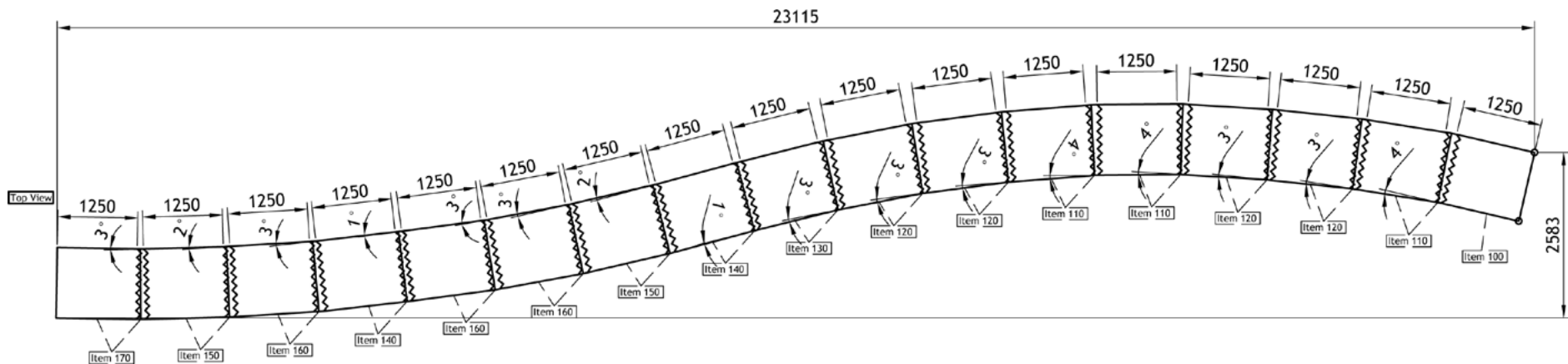
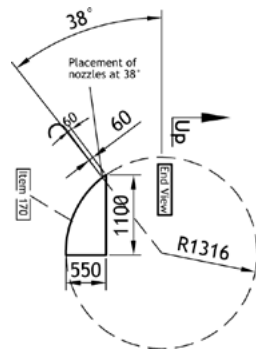
#### TECHNICAL DATA:

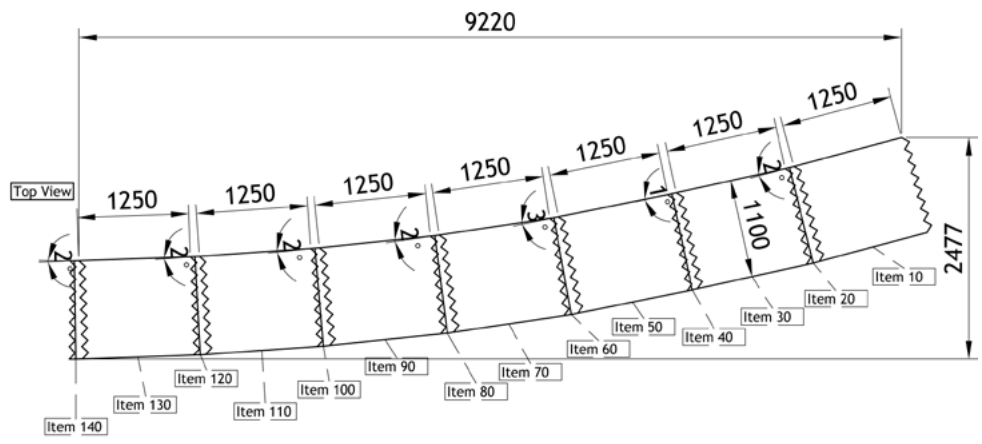
Year of construction:	2011
Air volume:	4284 m <sup>3</sup> /h
KE Fibertec system:	KE DireJet $\frac{1}{2}$ D duct with 24mm nozzles

**Good even air distribution**

In order to create a good indoor climate and a good even air distribution in the 15 metre wide and 7 metre high atrium the textile ducts came with nozzles which made it possible to control the distribution of the air.

Both the consultant and the customer stressed the importance of a good indoor climate in the building. In fact, this is one of the reasons why they chose a Textile Based Ventilation system.





KE Fibertec AS is market leader in Textile Based Ventilation. We create good indoor climate through our tailored textile ducts for installation in sports arenas, offices, laboratories, schools etc.

Textile ducts are customizable, easy to install, washable, hygienic, and come in all shapes and colours.

For more information please visit our website: [www.ke-fibertec.com](http://www.ke-fibertec.com).



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