CASE STUDY

HSE HEADQUARTERS

APPLICATION
Glass roofs and atria

ARCHITECT
Cartwright Pickard

PRODUCT
TESS™140

LOCATION
UK

PROJECT TEAM
Dearnleys

The Challenge
The HSE headquarters in Bootle, Merseyside boasts a dramatic drum-shaped design which is the work of architects Cartwright Pickard. Atria were used in the building design to harvest natural daylight but this posed the challenge of regulating heat and light gain.

The architects understood that solar shading would be required and almost two years before any ground was broken on site approached Commercial Solar Shading Specialists Dearnleys to provide their expertise regarding the solar shading system that would meet the project requirements. Another challenge was access, given the fact that the blinds are fitted 13m above ground level.

The Solution
Guthrie Douglas electrically operated tensioned roof blind systems were selected covering some 2,500m^2 to the main rectangular atria as well as a circular atria.

Access to the fixing site was via a combination of powered access equipment and bespoke scaffolding. It was however imperative that a proven and robust system was installed. The TESS™140 System had a proven track record of reliability and was therefore a perfect fit.

Visit us: www.guthriedouglas.com
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Guthrie Douglas

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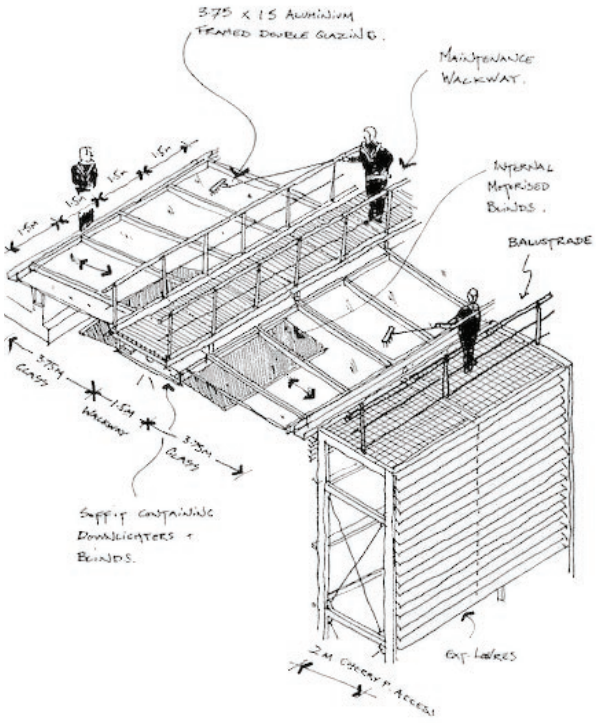

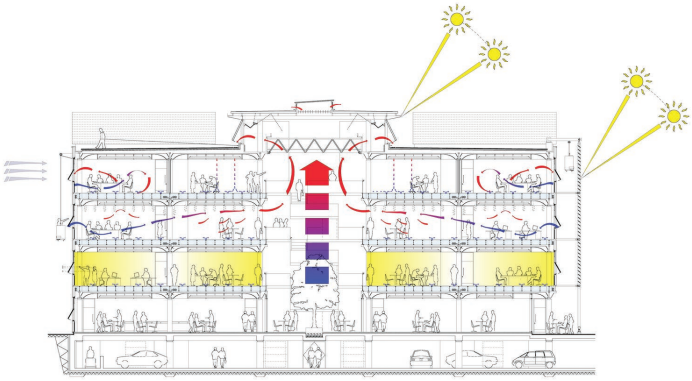

The Result

Rectangular Atria
Cartwright Pickard's early consideration and evolution of the rectangular atrium meant that the blinds and luminaires were contained in one location under the walkway. Internal motorized blinds were integrated under walkway meaning glass size was reduced.

Circular Atria
The versatility of the product meant that the same systems could be used on both the rectangular and circular artia.

Operation of blinds was by localised group operation with radio controlled (wireless) switches.

Lasting Success
A survey of the building five years after completion found that measurable items like energy use and comfort significantly exceeded expectations, while user satisfaction was also extremely high.

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