

# PROJECT CASE STUDY JOHN LEWIS DISTRIBUTION CENTRE - KILLINGWORTH

## PROJECT BACKGROUND

*This project was instigated by the well documented issues around RAAC panels. Our client was aware that many parts of the building contained RAAC, RTL Group were approached to work with the Structural Engineer to survey and assess the RAAC panels across the site, identify any issues and provide options to help maintain the buildings integrity.*



## PROJECT CHALLENGES

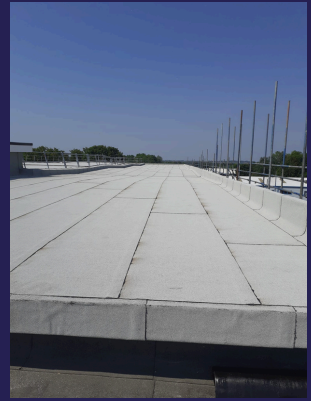
*The distribution centre operates 24 hours a day, 7 days a week. It was imperative that any works being carried out had minimal impact on the day to day operations of the site. During the survey an area of the building identified with RAAC was found to be defective requiring full removal. The floor to ceiling distance measured 18 metres which presented further difficulties, a full scaffold crash deck was installed beneath the roof to ensure all personnel involved in the works were safe. A phased approach was taken to remove the RAAC, replace with a new structural deck and ensure rainwater did not enter the building.*





# PROJECT OVERVIEW

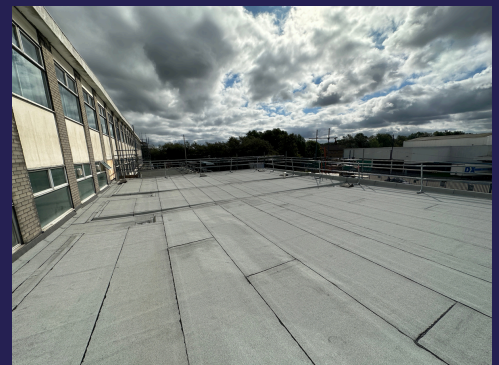
*Due to the failed RAAC the roof required a new deck to replace the panels. We designed and installed a new structural metal deck with an insulated waterproofing system, all fixed to the existing steel structure. Several other areas required re-roofing along with asbestos removal. Secondary structure supports have been installed to the remaining areas of the building where RAAC is present. To protect the vertical RAAC panels to the elevations of the building we carried out the design and planning application along with the installation of cladding to protect these panels.*



## THE PROJECT IN NUMBERS

**ROOF SIZE:  
5,500 SQ/M**

**CONTRACT VALUE:  
£1.1M**



## CONTACT US

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DESIGN, CONSTRUCTION AND ROOFING

