



Engineering that brings design to life

Award-winning Consulting Structural & Civil Engineers

Commercial (Retail)



Project Overview

JMS Engineers were appointed to provide structural design and consultancy services for WHSmith's £2 million flagship travel store at Birmingham Airport. The project involved extensive site surveys and design coordination within a live airport terminal. At 6,000 sq ft, this is WHSmith's largest travel retail space to date, offering a tech zone and a health and beauty section in addition to the usual travel essentials.

JMS Engineers supported the transformation of the unit into a modern, high-performing retail environment, carefully integrating structural solutions to suit a busy airport setting while enabling a smooth fit-out process for multiple commercial functions.

Project Type: Structural

Architect: Brookerflynn Architects Ltd

Partners: Bond Project Services

Project Category: Commercial

Project Budget £2 million

Load
Assessments

Ceiling supports

Fit-out integration



Project Overview

JMS Engineers provided structural engineering services for Monty's All Day Diner, part of Liverpool John Lennon Airport's £9 million food and beverage redevelopment. Located after security, Monty's blends a nostalgic 1950s American diner theme with modern design, seating nearly 200 passengers.

JMS Engineers worked closely with the project team to deliver engineering solutions that supported flexible seating layouts, specialised neon and mirrored bar features, and long-term durability in a high-traffic environment. Structural adaptability was key to optimising passenger flow and comfort. Designed to withstand heavy daily use while maintaining a vibrant and inviting atmosphere, Monty's has become a central part of Liverpool Airport's upgraded passenger experience.

Project Type: Structural

Architect:

Partners:

Project Category: Commercial (Retail)

Project Budget: £9 million

Feature support
systems

Seating load
design

High-traffic
durability



Project Overview

JMS Engineers provided structural design services for the new Tiffany & Co. store at Heathrow Terminal 2. The project demanded a balance between luxury aesthetics and structural precision, with the store fitting into the terminal's distinctive oval retail space.

JMS Engineers focused on delivering a durable steel frame structure to support the ambitious design, ensuring stability without compromising the brand's elegant identity. Detailed drawings were produced to guide the construction with absolute accuracy. The striking exterior façade features large curved sections, a mix of hammered and clear glazing, and integrated LED lighting - creating a luxurious and visually captivating landmark for travellers at Heathrow.

Project Type: Structural

Project Category: Commercial

Architect:

Partners:

Steel frame
design

Curved façade
detailing

Load distribution
design



Project Overview

JMS Engineers partnered with BrewDog and SSP UK & Ireland to deliver structural design and steelwork coordination for the new 'Tap Room' at Gatwick Airport's North Terminal. This landmark project marked BrewDog's first airport venture under SSP in the UK.

JMS Engineers provided comprehensive structural solutions, integrating seamlessly with the architectural vision to create a visually striking and highly functional space. Detailed design and coordination of the steelwork were crucial to the success of the project, ensuring a robust framework to support the busy airport environment. The finished Tap Room now offers travellers an exciting space to enjoy craft beer and food before their flights.

Project Type: Structural

Project Category: Commercial (Retail)

Architect:

Partners: SSP Group

Steelwork
coordination

Load-bearing
design

Structural
integration



Project Overview

JMS Engineers provided structural design and consultancy services for the Starbucks outlet at Heathrow Terminal 2. The project demanded seamless integration of structural and interior design, with strict compliance to Heathrow and UK standards. JMS Engineers carried out detailed load assessments for ceiling features, MEP, HVAC systems, and equipment, ensuring the outlet's safety and structural integrity.

On-site support was provided throughout construction, resolving any technical challenges as they arose. A key focus was to optimise the layout for both operational efficiency and customer comfort, all while maintaining the high safety standards expected at one of the world's busiest airports. The completed Starbucks is a welcoming space for travellers, successfully blending functionality with an inviting design.

Project Type: Structural

Project Category: Commercial (Retail)

Architect:

Partners:

Load assessment
calculations

Ceiling structure
design

On-site structural
support



Project Overview

JMS Engineers delivered structural design and consultancy services for the complete refurbishment of Bar 11 at Newcastle Airport. Part of a 12-week renovation programme, the project transformed the long-standing venue into a sleek, contemporary space with seating for up to 330 passengers.

JMS Engineers provided solutions to support panoramic runway views through floor-to-ceiling glazing, adaptable seating layouts, and high-load capacity flooring to suit the bar's heavy daily footfall. The structural approach ensured durability, safety, and seamless integration with the new design vision. Bar 11 now offers travellers a vibrant, welcoming environment, enhancing Newcastle Airport's dining and leisure offering while maintaining operational efficiency.

Project Type: Structural

Project Category: Commercial (Retail)

Architect:

Partners:

Glazing support
design

Seating
adaptability

High-load flooring



Project Overview

JMS Engineers delivered the structural design and validation for festive decorations at Van Cleef & Arpels, Bond Street, London. The project required careful assessment of wind loads, anchor strength, and load distribution to ensure the installation's safety and stability. Advanced wind load analysis and material selection supported the design of a lightweight aluminium frame, securely fixed to the building's brick façade using high-performance mortar resin anchors.

Every structural element was reviewed to ultimate limit state standards, ensuring durability against environmental forces. The result was a beautifully engineered installation that enhanced the iconic façade while maintaining the highest levels of safety and performance.

Project Type: Structural

Project Category: Commercial (Retail)

Architect:

Partners:

Wind load
analysis

Anchor strength
testing

Load distribution
design



Project Overview

JMS Engineers supported the launch of the new InMotion kiosk store at Heathrow Terminal 5, delivering structural consultancy and detailed coordination services. Working alongside InMotion, WHSmith, and InMotion Entertainment Group, JMS Engineers ensured seamless integration of the kiosk's striking design within the existing airport infrastructure. The kiosk offers a modern retail experience, showcasing a diverse range of electronics, wearables, and beauty products to meet traveller demand.

JMS Engineers carried out detailed structural calculations to guarantee the stability and safety of the installation, accommodating both design ambitions and Heathrow's strict operational standards. The completed kiosk stands as a vibrant, high-performing retail space, demonstrating the strength of collaborative engineering.

Project Type: Structural

Project Category: Commercial (Retail)

Architect:

Partners: InMotion Entertainment Group

Structural load
assessments

Integration with
infrastructure

High-traffic
durability



Project Overview

JMS Engineers provided structural design and consultancy services for the refurbishment of The Kissing Gate at Liverpool John Lennon Airport. This popular dining venue was transformed into a bright, welcoming space that enhances the passenger experience while maintaining durability for a high-traffic environment.

JMS Engineers worked closely with the design and construction teams to deliver structural solutions that supported an open layout, durable fixtures, and flexible seating arrangements. The refurbishment prioritised passenger comfort, operational efficiency, and a seamless integration of structure and style, resulting in a vibrant, long-lasting addition to the airport's hospitality offering.

Project Type: Structural

Project Category: Commercial (Retail)

Architect:

Partners: InMotion Entertainment Group

Open-plan
support

High-durability
detailing

Seating
adaptability



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