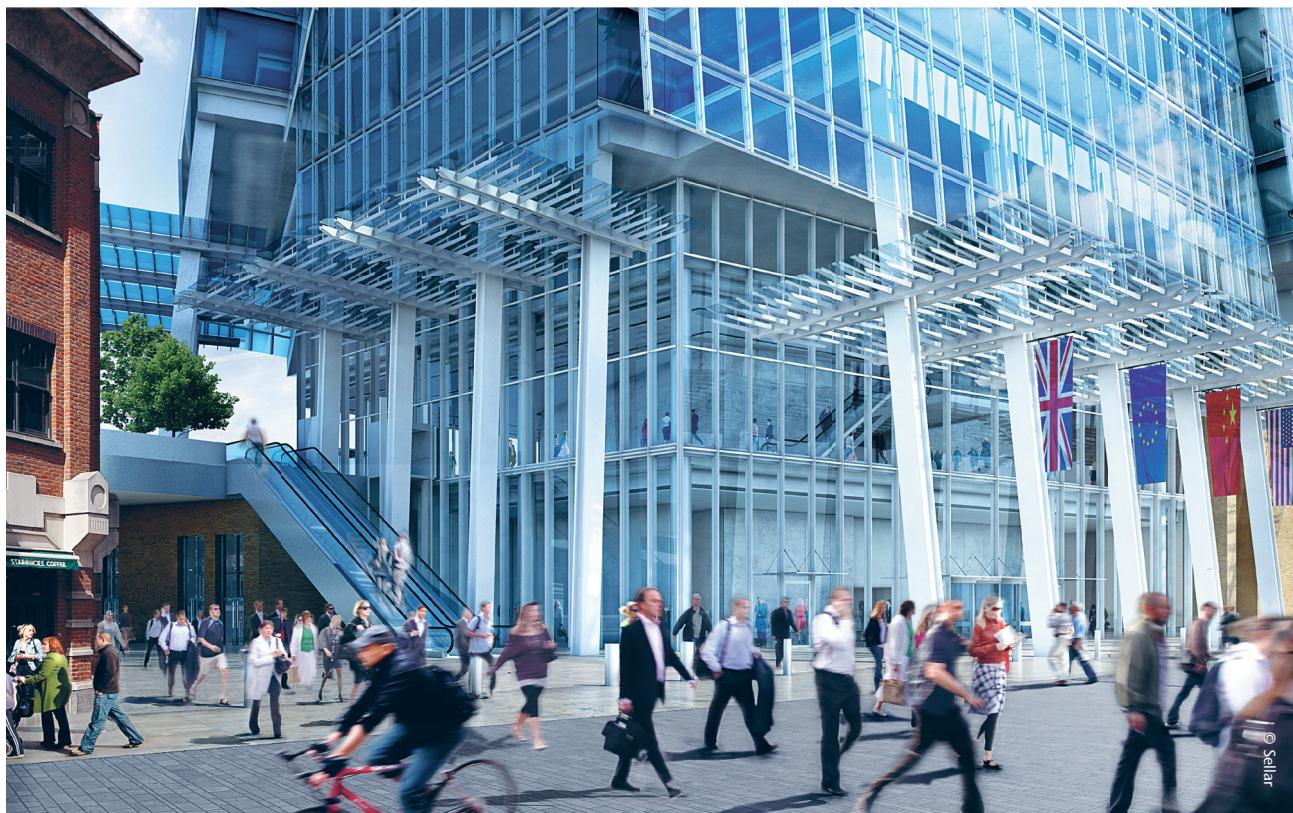


THE SHARD – LONDON, UK

# A skyline redefined

Piercing the sky like a shard of glass, The Shard is putting new punctuation to an already famous cityscape. Standing at 310 meters, this landmark building is the tallest in Western Europe and rises to twice the height of the London Eye observation wheel.





Developed by Sellar Property in association with LBQ Ltd. and designed by renowned architect Renzo Piano, The Shard is a multi-use vertical town rising to the equivalent of 95 stories. It brings over 111,000 square meters and 72 habitable floors of premium office space, retail stores, luxury residences, a five-star hotel, restaurants and a public viewing gallery to central London.

#### Installation innovation

"One of the biggest logistical challenges during any construction project is getting building workers, materials and goods to the right place at the right time – with maximum safety and efficiency," says **Michael Williams**, Managing Director of KONE Great Britain.

The Shard faced these typical challenges and more. The size and design of the building combined with a small footprint in an already congested area of central London equaled a challenging construction schedule from the very beginning. This is where KONE truly delivered with its innovative KONE JumpLift solution, maximizing efficiency, productivity and safety on site. The KONE JumpLift is a self-climbing elevator that can be used as an alternative to traditional exterior hoists during the construction phase. This was the first time the technology was used in Great Britain.

Williams elaborates on the numerous benefits of this innovation: "Workers spend less time waiting for exterior hoists and more time working. There is minimal disruption, a safer working environment and the ability to work in all weather conditions. The result is a faster enclosing and completed building, which can ultimately be handed over to the customer sooner."

**Tony Palgrave**, Construction Director for Mace, adds: "The KONE JumpLift solution is fundamental to our strategy of transporting people and materials quickly and efficiently

to the top of the building and down again in the safest possible way. It represented an ongoing commitment to finding better ways to deliver this landmark project."

#### Seamless design

The architecture of the iconic Shard tower speaks for itself. The interior, including the vertical transportation, is no different.

"A well-designed elevator has a huge impact on the way people feel in a building. Our production factory in Finland created customized elevator cabs that appeal on both an aesthetic and a functional level. They leave a lasting impression on passengers," says KONE Project Manager **Peter McCartney**.

#### Moving efficiently

Thirteen KONE DoubleDeck elevators powered by energy-efficient KONE EcoDisc® hoisting motors contribute to the efficient flow of people within this vertical town. With two elevator cars in the same shaft, one atop the other, the technology creates significant space savings and increases traffic handling capacity in this high-rise building.

The double-deck elevators, and the other KONE elevators and escalators in the building, ensure smooth people flow in this London landmark. "This project further strengthens KONE's leading position in the European high-rise elevator market," says Williams.



## SUMMARY

### Challenge

- To provide permanent vertical transportation solutions that can also be used to move people and materials efficiently and safely during the construction process
- To maximize space and traffic handling capacity within the building
- To design custom elevator cabs following specific requirements

### Solution

- KONE JumpLift elevators used during construction enabled a quicker handover
- KONE DoubleDeck elevators for increased passenger handling
- Customized elevator solution designed to complement the building's aesthetics

### FAST FACTS

#### The Shard

- Completed: 2012
- Height: 310 m
- Floors: 95 total, 72 occupiable
- Total floor area: 111,484 sqm
- Architect: Renzo Piano Building Workshop
- Building owner: LBQ Ltd.
- Developer: Sellar Property Group
- Contractor: Mace

#### KONE Solutions

- 15 KONE MiniSpace™ elevators
- 2 KONE MonoSpace® elevators
- 13 KONE DoubleDeck elevators
- 3 KONE hydraulic elevators
- 3 KONE TransitMaster™ 150 escalators
- 2 KONE EcoMaster™ 130 escalators
- 5 KONE JumpLift construction time elevators