



ICON Outlet at the O2

System Designer: Sto

INCA Awards 2019 Finalist

Category: Architectural Design

sto



Building with conscience.

An integrated package of external wall insulation and render from Sto was used to insulate an impressive architectural design featured on a major new London shopping mall. The Sto materials were chosen to insulate and finish the 'wave-themed' wall and ceiling design which now forms the centrepiece of ICON Outlet at the world-famous The O2.

"We needed to specify a high-quality insulation system that could provide the required degree of thermal insulation, and still accommodate the complex surfaces and angles of the 'wave' design which covers large parts of the walls and ceiling," explains Nathmya Saffarini of CallisonRTKL architects.

"We were looking to create a vibrant atmosphere and use state-of-the art materials throughout, so it was important that the insulation solution we chose was compatible with those requirements."

The complex design and concept of this project was challenging, as the shopping mall includes 'indoor streets' interspersed with open spaces and is roofed over. The location of the O2 also required extra planning, as it meant that the insulation and render finish had to be completed to external standards to protect against the moisture-laden atmosphere and the effects of any temperature fluctuations which the location could cause.

The Sto system specified for the majority of the project was the StoVentec R ventilated rainscreen cladding system, which features an aluminium mounting grid to create a cavity between the facade and the render carrier board. This is partially filled with mineral fibre insulation to provide highly effective thermal insulation and fire protection, while still protecting the wall by keeping it dry and allowing it to breathe. The StoVentec carrier boards are very flexible, do not expand or contract with temperature change and butt jointed with no risk of cracking.

