

## Future-proofing Scotland's most ambitious new office space with Ravatherm XPS X ULTRA 300 SL

### The challenge

With over 60 years of heritage to draw on, Ravago Build-ing Solutions UK is no stranger to supplying world-class solutions to world-class projects. Amongst the most re-cent of these is 177 Bothwell Street, Glasgow: an ambi-tious commercial office development whose pioneering green credentials are more than fitting for Scotland's "Dear Green Place".

177 Bothwell Street is impressive in every sense of the word: spanning 29,000 m2 and 13 storeys, the Grade A development will be Glasgow's largest single office building; contribute £2.8 billion to the Scottish economy over 25 years; and meet the highest international stand-ards of sustainability. With exceptional thermal comfort and performance critical to achieving the targeted BREEAM Excellent rating, an equally impressive insula-tion solution was essential.

### The solution

For the main roof areas, King's Lynn-based XPS insulation manufacturer Ravago was able to offer a purpose-designed solution combining ultimate design flexibility and performance with the industry-coveted assurance of British Board of Agrément (BBA) certification.

Partnering with Alumasc Roofing, Ravago deployed its innovative Ravatherm XPS X ULTRA 300 SL insulation boards to deliver the building's aspirational energy efficiency requirements.

"177 Bothwell Street represents the future of office space, and that legacy is reliant on the fabric's longevity and performance. On that basis, we recommended our ultra-thin Ravatherm XPS X ULTRA 300 SL boards for the main roof, which offer an exceptional design lambda of 0.028 W/mK, and a Global Warming Potential (GWP) of less than one", says Richard Powell, Roofing Sales Manager at Ravago Building Solutions UK.

### The results

Designed by pioneers in sustainable architecture, Sheppard Robson, the steel-framed commercial development reflects people- and planet-focused principles from its core outwards: from Ravago's high-performance inverted flat roof XPS insulation to an 8,000 sq. ft roof terrace, 150-metre running track and panoramic views over Glasgow. All of this, of course, powered by 100% renewable energy.

177 Bothwell Street has achieved an EPC rating of 'A', and BREEAM 'Excellent' rating, while catering to an occupancy of over 3,500, and was named commercial development of the year at the Scottish Property Awards 2022.

### Customer feedback

*"With a careful focus on lifecycle considerations and choice of materials throughout the building, Ravatherm XPS X ULTRA 300 SL insulation proved ideal for the project. Alumasc and Ravago have in common a proud history of innovation in British construction, making our partnership on this distinguished commercial project a natural fit – we can now share in the pride of contributing to Scotland's green future with a future-proof work-ing space for thousands."* Craig Begg, Director for Scotland and Ireland, Alumasc Roofing

### 177 Bothwell St, Glasgow

**Industry** Commercial construction

**Application** Flat roof

**Products used** Ravatherm XPS X ULTRA 300 SL

**Year completed** 2022

**Client** Alumasc Roofing

**Architect** Sheppard Robson

**Location** Glasgow City Centre, Scotland

