Radmat building products

Specialists in Roofing and Waterproofing

CASE STUDY

Bloomberg European HQ

"In some of our first discussions on the project, Mike Bloomberg and I arrived at a 'meeting of minds' on how the design of the new Bloomberg headquarters should incorporate the highest standards of sustainability. The project evolved from thereon into a building that is one of the most sustainable in the world. The deep plan interior spaces are naturally ventilated through a 'breathing' façade while a top lit atrium edged with a spiralling ramp at the heart of the building ensures a healthy, connected and creative environment." Michael Foster, Founder and Executive Chairman, Foster + Partners

RADMAT PRODUCTS USED:

- ProTherm XENERGY SLP
- ProTherm G XPS X 500 SL Insulation
- PermaQuik PQ6100, PQ2017, PQ2060 and PQ2061
- EshaPrimer
- Texsa Protection Sheet

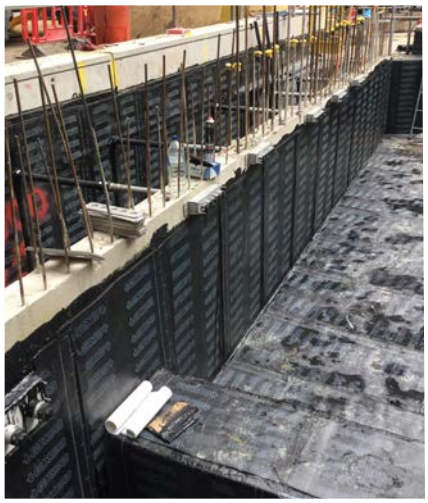
ARCHITECTS: Foster + Partners

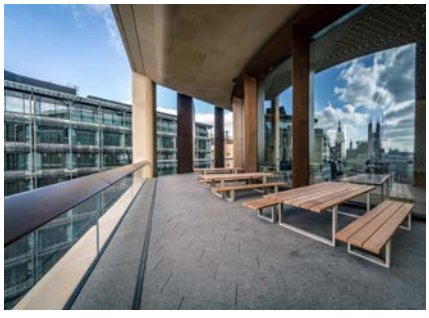
Located in the heart of Central London between the Bank of England and St. Paul's Cathedral, Bloomberg's stunning new European Headquarters is now complete, after an innovative collaboration between **Radmat Building Products** and specialist contractors **Prater** to deliver the roofing and outside cladding systems on the striking new build. Michael R. Bloomberg, founder of Bloomberg L.P. stated; "From day one, we set out to push the boundaries of sustainable office deisgn", his intentions were refelcted in the building's BREEAM sustainability assesment method rating of 'Outstanding' with a 98.5% score, the highest design-stage score ever achieved by any major office development.

- Challenging building environment due to complexity of the build – building finishes often completed in overly-tight spaces
- Thermal requirements met by **ProTherm XENERGY SLP** and **PDS ProTherm G XPS X 500 SL** insulation
- Waterproofing and sustainability managed by **PermaQuik Hot Melt Monolithic Membrane**

Bloomberg European HQ

One of the leading features displaying the building's sustainability is its impressive roof design. It bears a complex petal-leaf design which collects rain water and cooling tower blow-off water, to be treated and recycled (along with water from other sources such as basins and showers) to then serve the efficient vacuum flush toilets. The roof also bears vents which work with bronze fins in the walls to allow airflow to pass through the building and out the vents, causing a 'breathable' system requiring little to none artificial ventilation. The roof and walls are also insulated in such a manner that, during the colder months, the need for artifical heating is significantly reduced.





Prater and Radmat were contracted for the green/bio-diverse roofing and the installation of riverstone cobble margins and natural paving slabs. In addition, hot melt waterproofing was also required for multiple levels of the project.

The complex physical design of the building's intricate roof, was often challenging. Waterproofing had to be carried out to the structures behind large-scale bronze blades across the building and the underside of the façade glazing. The different angles and densities of the blades meant a difficult task was faced when installing the waterproofing, insulation and MinK filter sheets.

However, the specialist team carried out rigorous testing throughout the process and ensured the building was waterproof and thermally efficient.

Radmat's **PermaQuik PQ6100, PQ2017, PQ2060/2061 Hot Melt Monolithic** guaranteed waterproofing membrane was the perfect solution. It combines excellent waterproofing performance with toughness, durability, flexibility and strong adhesion to a variety of substrates inclusding Zero falls. BBA certified 'for the design life of the roof in which it is incorporated'.

The headquarters unsurprisingly contain vast workspaces and meeting rooms, which subsequently demand optimum aural levels for communication and concentration, hence Radmat's **ProTherm XENERGY SLP** and **PDS ProTherm G XPS X 500 SL** thermal insulation was used as it was able to collectively meet the demands of providing high-standard insulation while conforming to important efficiency targets. It also performed in cancelling out the noise from the thriving city centre while preserving high acoustic quality inside the building, adhering to the required optimum aural levels.

The construction of Bloomberg's new European Headquarters has proved to be an ultimate success, being regarded a new visual icon with its unique and elegant architectural finesse, while also being recognised as the most sutainable and efficient office building in the world, aided by Radmat's insulation and waterproofing to last the lifetime of the building.

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