



10 Fenchurch Avenue, London

Combined rainwater harvesting, attenuation & greywater recycling

PROJECT OVERVIEW

10 Fenchurch Avenue, a 15-storey building, provides 420,000 sqft of office space and additional retail areas on the lower level. Eric Parry Architects designed the structure, with CORE and Greycoat overseeing construction. It will serve as the new UK head office for Generali, Italy's foremost insurance company. The building features a public rooftop garden, complete with a restaurant and water elements.

From inception, Waterman's building services and environmental teams aimed to achieve a BREEAM "excellent" rating. The design adopted an "integrated non-potable water management" strategy, merging flood control with water conservation efforts. Aquality installed a hybrid rainwater harvesting, attenuation, and greywater recycling system in the basement, and another combined system on level 14.

To optimize space, Aquality's innovative Aqua-Storm-Control was integrated into the rainwater storage. This cloud-based, weather-responsive system dynamically manages water volumes, allowing a flexible switch between flood control and rainwater harvesting. Compared to traditional designs requiring separate volume allocations for harvesting and attenuation, this system significantly reduces storage needs. Specifically, the ASC system eliminated the demand for an extra 100m³ of internal water storage.

In the absence of rainwater, the greywater recycling system continues its supply. Aquality, collaborating with Waterman, is proud of this forward-thinking design.

BUILDING TYPE

Office

CONSULTING ENGINEERS

Waterman

M&E CONTRACTOR

Michael J Lonsdale

SYSTEM TYPE

Combined rainwater harvesting & greywater recycling

TREATMENT CAPACITY

4,636 m³ p.a.

CO₂ SAVING

3.7 T p.a.

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Lee Cousins, Aquality