

Multi-Storey Residential Property

St Georges Court, Camberley

SCOPE

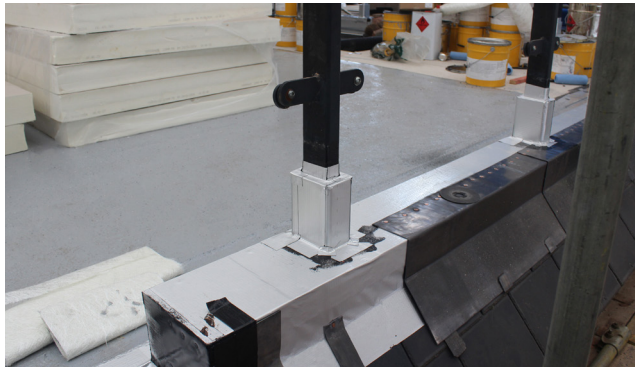
- // Warm Roof Installed
- // Replacement Timber Deck
- // Bespoke Tapered Insulation
- // Concrete Repairs
- // New Timber Upstands
- // Vapour Control Layer
- // Liquid-Applied Waterproofing

DETAILS

- // Multi-storey residential building
- // Encapsulated scaffold design, a self-supporting structure with temporary roofing
- // 774m² waterproofed using Sika Decothane Ultra
- // Converted to a warm roof switching out the inverted design
- // Over 200 balustrades and handrail posts detailed
- // High quality tiling was applied to balcony over the waterproofing layer

Case Study // Roofing

Client | Attleys Roofing
Role | Specialist Sub-Contractor



St Georges Court is a multi-storey residential building which faced significant issues with its waterproofing and insulation systems. The single ply membrane on the main roof and the liquid-applied coating to the terraces had deteriorated, leading to water ingress and potential damage to the underlying timber deck.

As the removal of the existing waterproofing and insulation progressed, it became evident that the condition of the timber decks had deteriorated significantly. Large sections of the timber were found to be compromised and exhibiting signs of damage, including cracks, warping and areas of rot. This decay likely developed over time,

hidden beneath the layers of insulation and waterproofing. Given the extent of the damage, it was evident that a full replacement of the timber decks would be necessary to restore the integrity of the structure and prevent further complications in the future.

For the main roof, the installation of a new vapour control layer served as a crucial barrier against water ingress. Following this, a bespoke tapered insulation scheme was meticulously designed and implemented. This scheme was essential to ensure proper water drainage, addressing one of the key challenges faced in maintaining the roof's integrity.

Once the insulation was in place, the next step involved the application of waterproofing materials. For this critical task, the team opted for Sika's Decothane Ultra, renowned for its high performance and durability. This top tier liquid-applied system provided a seamless protective layer, effectively guarding against water penetration and weathering. The application of this waterproofing system was conducted with precision, ensuring complete coverage and adhesion to the substrate. As the system cured, it formed a resilient membrane, capable of flexing with the structure movements of the building while maintaining its waterproofing reliability.

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The result of these scrupulous steps was a rejuvenated main roof, fortified with state-of-the-art materials and techniques, safeguarded against moisture and weather damage. Additionally, the new tapered insulation scheme ensured efficient water drainage, contributing to the long-term sustainability of the structure.

To create a stable foundation for the terraces, timber boxes were meticulously installed around the parapet and perimeter details. This not only provided structural support but also ensured a secure base for the subsequent layers of materials to be applied. Once secured, repairs were undertaken on the concrete deck to rectify any damage and reinforce its structural

integrity. This step was essential to guarantee the terrace's longevity and ability to withstand the demands of daily use and weather exposure.

Following this, a new vapour control layer was laid which acts as a blockade against moisture, preventing it from seeping into the structure and causing potential damage over time.

Known for its exceptional thermal performance, Kingspan Optima-R VIP insulation board was incorporated into the terrace design which helps enhance the energy efficiency of the terrace, ensuring a comfortable environment regardless of the external temperature. A tapered insulation scheme was then carefully integrated to further optimise thermal efficiency and facilitate proper

water drainage, preventing any ponding or water damage.

With the foundational and insulating layers in place, the final step involved waterproofing the terraces using the Decothane Ultra waterproofing system. This top of the line liquid-applied system formed a robust barrier against water ingress, protecting the terrace structure from moisture damage and ensuring its long-term durability.

For further advice and/or information regarding all of our services, please visit www.cemplas.co.uk.



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