



Case Study



Royal Arsenal
Woolwich, London

“ With Sapphire you get a complete offsite manufactured balcony that can be installed with very little fuss. ”

Project Director, Berkeley Group at Royal Arsenal





Royal Arsenal Woolwich

Client: Berkeley Group

Contractor: Berkeley Group

Architect: EPR Architects

Location: Woolwich, London

Balconies: 588 Cassettes®



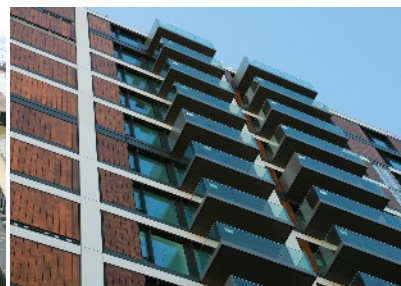
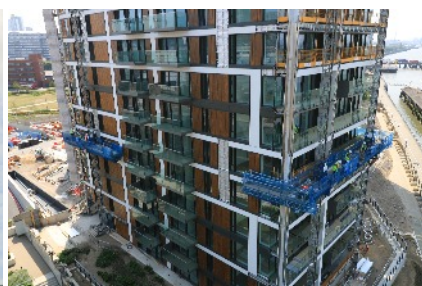
Challenge

Royal Arsenal is a large, multi-phased development currently being built in the heart of Woolwich. Amongst those behind the design of the Berkeley owned site, EPR Architects were procured for their valuable services across the various blocks. Sapphire were enlisted to provide almost 600 balconies for Blocks B1, B2 & B3 across phase 6, 7 & 8 of the overall masterplan. It was apparent early in the process, that the design of buildings B2 & B3 ensued in tolerances that were extremely tight. Further to this, the original requested design presented both thermal & drainage issues. Challenges that Sapphire were ready to accept.







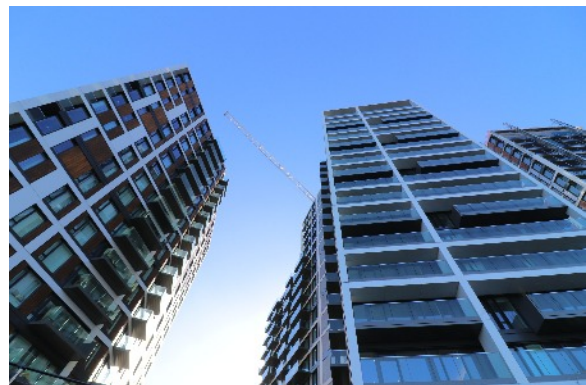
Solution

The sleek Royal Arsenal buildings utilised Sapphire's projecting Glide-On™ Cassette balconies, enhancing the overall look of the project. Alumet the façade contractors, were selected to install the balconies. Prior to installation, Sapphire worked closely with Alumet, providing training, guidance and support to enable the efficient and careful fitting of all balconies. Additionally, divider/privacy screens were provided for the ground floor apartments. The tight tolerances required on this project, increased the difficulty of the overall installation as well as the risk of misalignment against the façade. Sapphire assisted with the balcony design & carefully constructed extra thin Glide-On™ Cassette's to tackle the issues - enabling their simplistic installation ethos to persevere. The preassembled balconies were delivered to site & fitted onto the pre-erected support arms, guaranteeing rigidity and resulting in balconies that were installed Rigid. Ready. Right.



Rigid.Ready.Right.

- Step 1**  Cast in anchors were cast into the slab & incorporated thermal break connections offering superior rigidity to the balconies.
- Step 2**  Cassette® balconies were preassembled offsite, including the lights, balustrades, decking & soffits.
- Step 3**  Cassette® balconies were transported with balconies 'nested' onto each pallet making transport both cost effective & safe. Balconies were pre-slung offsite ready for installation upon arrival.
- Step 4**  Once lifted into position, the Cassettes® simply Glide-On™ to the pre-erected support arms, before completing the simple mechanical fixings. Simple electrical connections completed soon after by subcontracted electricians.





NBS Specification

Royal Arsenal

Manufacturer	Sapphire Balconies Ltd 11 Arkwright Road Reading RG2 0LU 0844 88 00 553 sales@sapphire.eu.com www.sapphire.eu.com
Reference	Glide-On™ aluminium Cassette® balconies with Crystal® frameless, structural glass.
Balcony anchor	Cast-in anchors incorporating thermal breaks.
Arms	2-piece galvanised steel support arms pre-fitted onto anchor assembly for casting-in.
Cassette® structure	Standard 400mm modular Glide-On™ Cassette® balconies.
Soffits	Polyester powder coated aluminium free draining soffits.
Deck finish	Enjura WPC composite decking fixed with hidden clips.
Toprail	22 x 22mm (nominal) 'U' shaped satin anodised aluminium capping to top of glass.
Guarding	21.5mm clear toughened laminated structural glass panels PVB interlayer. Solid end boxes formed of polyester powder coated aluminium to the sides of some balconies.
Base fixing	Mechanically fixed to Cassette®.
Fascias	Polyester powder coated aluminium fascia trim to conceal glass fixings/edge of balcony frame.





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All facts have been carefully collated and were accurate when researched; these may become out of date. Sapphire takes no responsibility for this. MD050319RJ

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