



Beaumont Court and Richmond House

Client: Randall Watts

Contractor: Base Quantum **Architect**: Campbell Reith

Location: Southend, London

Balconies: 139 Cassettes®



Challenge

The main challenge with this project was that it was the renovation of an existing building, meaning anchors couldn't be cast-into the slab. The team had to find a way to secure the balconies to the building and achieve a high level of rigidity while not knowing the exact strength of the existing floor substrate of a long-term derelict building.



Solution

To overcome the challenges posed by the existing slab we worked with the site and engineers to design a unique anchor and tie wire system to suit the needs of the project.

Considering the existing structure, the size and weight of the balconies a bottom bracket was fixed to hold the balconies with tie wires for the below balconies restraining from the same brackets.

Tie wires securely cantilever the balcony off the building while giving a unique aesthetic finish. This meant the balconies were safely secured to the building slab for taking momentum forces like a traditional bolt-on/Glide-On™ approach.





Rigid.Ready.Right.

Step 1

Unique two-part brackets were secured to the concrete frame.

Step 2

Cassette® balconies were preassembled offsite, including the balustrades, decking & soffits.

Step 3

Use of counterbalance lifters was important to install balconies below feature 'boxes' higher up the building.

Step 4

Once lifted into position, the balconies fixed onto the awaiting bottom brackets and were secured above with the tie wires.



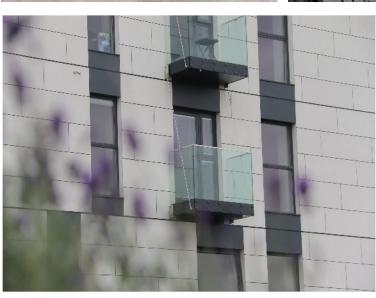




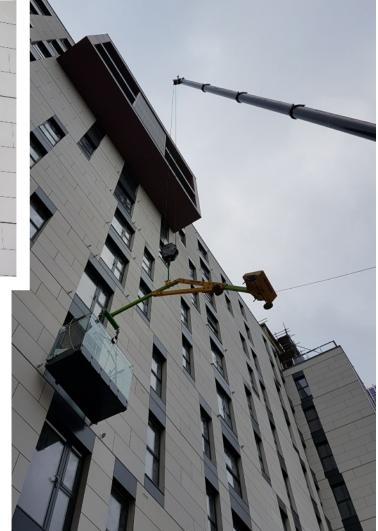












NBS Specification

Project Name

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 Bespoke fixing bracket fixed to existing slab, bracket to receive balcony at bottom

and provide fixing point for tie wire restraints.

Arms

Tie rods used in place of arms with a small bracket attaching the Cassette® to the

façade

Cassette®

structure Standard 400mm modular Glide-On™ Cassette® balconies

Soffits Polyester powder coated aluminium integral controlled draining soffit.

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 8+8mm Clear toughened PVB laminated glass to meet 0.74kN/m loading with

screen-printed obscure band to conceal balcony frame

Base fixing Mechanically fixed to Cassette®

Fascias Polyester powder coated aluminium to conceal edge of balcony frame.





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0344 88 00 553 www.sapphire.eu.com sales@sapphire.eu.com

Sapphire Balconies Ltd 11 Arkwright Road Reading RG2 OLU

