



# Case Study



**SAPPHIRE**

NE02 (Yellow Car Park), Wembley

*“ The Next Generation suite is revolutionary for the residential construction market. ”*

Ger Hayes, Managing Director, John Sisk & Son Limited





# NE02 (Yellow Car Park), Wembley

**Client:** Quintain Estates &  
Development Plc

**Contractor:** John Sisk & Son Limited

**Architect:** Haworth Tompkins

**Location:** Wembley, London

**Balconies:** 474 Clip-On® Cassettes®



## History

Wembley Park is no stranger to Sapphire Balconies, and the NE02 is the latest development in the area, spanning several high-rise residential units in northeast Wembley, overlooking the famous Wembley Stadium.

At Vision Construct 2023, Sapphire Balconies unveiled The Next Generation suite, a significant advancement in construction. These balconies feature an ultra-low carbon framework, reducing CO2 emissions by 19% in stages A1-A5, marking a notable sustainability achievement for Sapphire.

John Voyce (Sisk) has highlighted the uniqueness of the system, stating, "It's all about optimising thermal efficiency—trying to reduce any thermal breaks through the facade—but also safety by making sure we're reducing any risk of fire."



## How Sapphire Made It Simple

The challenge at the NE02 development was in designing a truly innovative connection to pre-cast façade panels, in collaboration with both Sisk and Techrete. Another part of the challenge of the project was to make the lives of the panel manufacturers easier, removing



risky, time-consuming and costly processes when compared to working in and around stubs.

The Clip-On™ connection, developed in collaboration with leading construction company Sisk, serves multiple purposes: optimising thermal efficiency, enhancing safety by minimising the risk of fire and connecting directly to a pre-cast façade. The focus was on optimising thermal efficiency and safety by reducing thermal breaks through the façade. The lightweight (350kg) aluminium clip-on balcony system for NE02 is a testament to this commitment.

Connection to pre-cast façade panels (rather than having to take moment connections back into the structure) was crucial for this project. By fixing just to the outer panel, coordination was made much simpler and elements such as air and water sealing are better as a result. Thanks to the pre-cast façade panel connection, thermal bridging was eliminated entirely, making the building more efficient as a whole.



# NBS Specification

## NE02

**Manufacturer** Sapphire Balconies Ltd 11 Arkwright, Road Reading, RG2 0LU  
0344 88 00 553  
[support@balconies.global](mailto:support@balconies.global)  
[www.balconies.global](http://www.balconies.global)

**Reference** Clip-On™ aluminium Cassette® balconies with vertical bar balustrades

**Balcony anchor** Clip-On® balcony anchors, cast-in to precast façade

**Arms** None – Clip-On® anchor used

**Cassette® structure** Modular Clip-On™ Cassette® balconies

**Soffits** Polyester powder-coated aluminium-controlled draining soffits

**Deck finish** Innova® decking fixed with hidden clips

**Toprail** 81 x 44mm sloped top, polyester powder coated

**Guarding** 40 x 12 mm vertical bar balustrades

**Base fixing** Mechanically fixed to Cassette®

**Fascias** Polyester powder-coated aluminium fascia trim to conceal edge of balcony frame



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