



Case Study



SAPPHIRE

NE02 (Yellow Car
Park), Wembley

Aspiring for *next-generation*
sustainability

Constrained by *connecting*
to pre-cast panels



Streamlined by *Innovation*,
Delivered by Sapphire.

“ 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
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



Sapphire reserves the right to alter specifications and designs without prior notice. Most designs are owned / registered by Sapphire most of which are protected by registered designs, trademarks and patents. All details are given as guidance only and may vary according to project application.

© All rights reserved, no part of this publication may be reproduced in any material form (including photocopying or storing it in any medium by electronic means and whether or not transiently, or incidentally to some other use of this publication) without the written permission of the copyright owner. Application for the copyright owner's permission to reproduce any part of this publication should be addressed to Sapphire.

All information has been carefully collated and efforts were made to ensure accuracy at the time of publication. Sapphire takes no responsibility for inaccuracies after the date of publication. MD280524SJE

 0344 8800 553
 www.balconies.global
 support@balconies.global

Sapphire Balconies Ltd
11 Arkwright Road, Reading, RG2 0LU

 **SAPPHIRE**[®]