



Case Study

 **SAPPHIRE**

Elephant Park
MP3 H4



lendlease

lendlease

considerate constructors
without appearance

ELEPHANT PARK
Tiger's Early Years Centre
opening soon



org.uk



STOP



Elephant Park MP3 H4

Client: Lendlease

Contractor: Balguard Engineering

Architect: Allford Hall Monaghan Morris

Location: Walworth, London

Balconies: 249

Elephant Park is a vast £2.5 billion redevelopment scheme by Lendlease at Elephant and Castle, in the heart of the capital. This landmark project is being delivered in partnership with Southwark Council. It is primed to have significant social value not only to the residents of Elephant Park but also to the surrounding community.

The scheme will bring 3,000 new homes, 1,000 new jobs and up to 50,000 sqft of workspace to the area once complete, as well as extensive green spaces, shops and amenities. Lendlease has taken a holistic approach to generate homes and nurturing a neighbourhood and sense of community surrounding Elephant Park.

Sapphire Balconies Ltd was commissioned to design and manufacture balconies for this project.

Brand new profiled handrail and vertical bar extrusions were designed bespoke to suit architect requirements, matching other areas on the project.

Varied solutions were offered based on their requirements. Some balconies needed the installation of privacy screens, while some were inset balconies between brickwork reveals.



Challenge

There were two main challenges with the Elephant Park H4 project. The first challenge was the new bespoke design of the balustrade. One such example is where the architect's vision was to have an angled handrail. The handrail had to be set at an angle which made it tricky to achieve perfect corner mitres.

As this project was started before the cladding ban was implemented, this project was designed without soffits and WPC decking. The client proactively chose to upgrade to Class B decking. Sapphire had to facilitate the change of the build partway through the project.



Solution

Our team of experts at Sapphire designed purpose-made bespoke extrusions for both the handrail and the vertical bar to stay in alignment, meeting the architect's needs and vision and making it a much easier solution to manufacture.

To enhance both fire performance and water management, Sapphire proposed controlled edge drainage for the soffits and the level 1 gutter balconies over principal entrances.



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

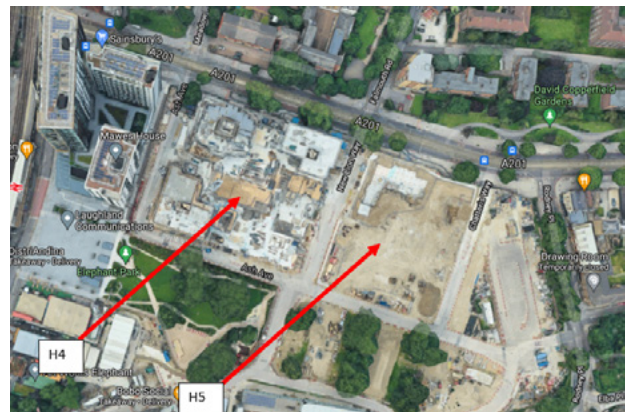
Glide-on Cassette® balconies were preassembled offsite, including the balustrades, decking & soffits.

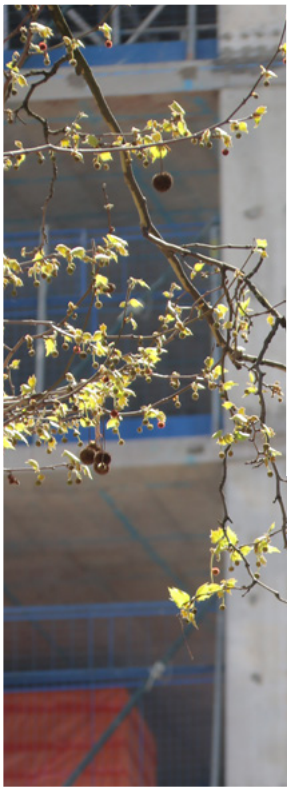
Step 3

Glide-On Cassette®, balconies were transported with balconies 'nested' onto each pallet, making transport both cost-effective & safe. Balconies were pre-slung offsite and 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.





NBS Specification

Elephant Park MP3 H4

Manufacturer: Sapphire Balconies Ltd, 11 Arkwright Road, Reading, RG2 0LU
0344 88 00 553
sales@sapphire.eu.com
<https://balconies.global/>

Reference: Glide-On™ aluminium Cassette® balconies with vertical bar balustrades

Balcony anchor: Sapphire M30 anchors incorporating thermal break and factory assembled stubs

Arms: 2-piece galvanised steel

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

Soffits: Polyester powder coated aluminium controlled draining soffits

Deck finish: Enjura Class B WPC composite decking fixed with hidden clips

Toprail: Profiled polyester powder coated aluminium (bespoke profile). Tapered profile to suit design to match terraces supplied by others

Guarding: 45 x 10mm polyester powder coated aluminium flat vertical infill bars at 1.1m high side fixed to balcony frame with 50mm polyester powder coated aluminium kicker plate trim behind bars

Base fixing: Mechanically fixed to Cassette®

Fascias Polyester powder coated aluminium side fascia behind bars side fixed to balcony frame, with visible front edge of balcony frame powder coated with colour matched visible fixings





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 facts have been carefully collated and were accurate when researched; these may become out of date. Sapphire takes no responsibility for this. MD081222SE

0344 8800 553
<https://balconies.global/>
sales@sapphire.eu.com

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

