

The V&A, East

# Architectural formwork accommodates steelwork

## Key Benefits:

Reduced risk of declashing

Crane-free handling in smaller areas

Dual access with PERI UP

“The exposed concrete was of high importance and required significant design co-ordination with interfacing cast-in items. PERI made us realise very early on that they were not just delivering a jumpform system, they were delivering a comprehensive service. Their Senior Sales Engineer Neil Butlin, and Lead Design Engineer Chris Pittock fully plugged into our design journey and ultimately gave the client confidence that their specific requirements for formwork patterns, inclusive of tie holes and anchors, could work in harmony with all interfacing cast-in items, many of which were evolving as PERI were working on the design.”

Project Manager, J. Coffey  
**SEAN MCDONAGH**

## The project at a glance

The V&A East museum is part of the Stratford Waterfront East Bank project, led by London Legacy Development Corporation and delivered by Mace, the international consultancy and construction company.



**PERI**<sup>®</sup>

**Client:** J Coffey

**Contractor:** BAM Construction

**Project type:**

Public, Non-residential

**Products and Services:**

VARIO formwork

DUO formwork

RCS climbing

PERI UP scaffolding

PROKIT edge protection

**What did the client need?**

The V&A East museum consisted of architectural work involving faceted forms on its façade, and freestanding cores featuring unique wall layouts and patterns inside the building.

The architectural requirements across parts of the new museum's three central cores required bespoke temporary works.

**What was the challenge?**

In the early stages of the project, we were presented with the challenge of suggesting a suitable pattern for the fair-faced finish.

Adding to the challenge was the structural frame, which consisted of large amounts of steelwork including embedment plates, making declashing a crucial part of our solution.

**How did we help?**

We designed a VARIO formwork solution for parts of the core to create the desired symmetrical ply and tie layouts. We planned the positioning of climbing anchors and formwork ties carefully in conjunction with J Coffey to avoid clashes with steel plates in the concrete.

We fabricated the formwork shutters, which made it easier to achieve the unique patterns and accommodate the plates as the core evolved. The prefabrication work included the creation of single and double skin layers depending on the level of detail required.

For the latter, we adapted ply sheets by incorporating striking details into the panels. This allowed the shutter to be removed without affecting the pattern.

Our formwork designers were also heavily involved when planning the lifting sequence and access

to working levels. This involved understanding how operatives would access each level from the PERI UP tower erected inside the core. We designed a second stair tower that was erected between cores 1 and 3 to provide dual access.

By taking advantage of PERI UP's versatility, our designers also created an 'up and over' access solution, as the final floor levels followed up behind the core and were not yet in place. Operatives could gain access from one side of the formwork shutter to the other.

One of the main benefits is that the 'up and over' solution could be used for access while shutters were in the pouring position and even after they were struck. These units were crane-lifted in and out of position when required, providing easy and safe access over walls, formwork, and even protruding rebar.

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