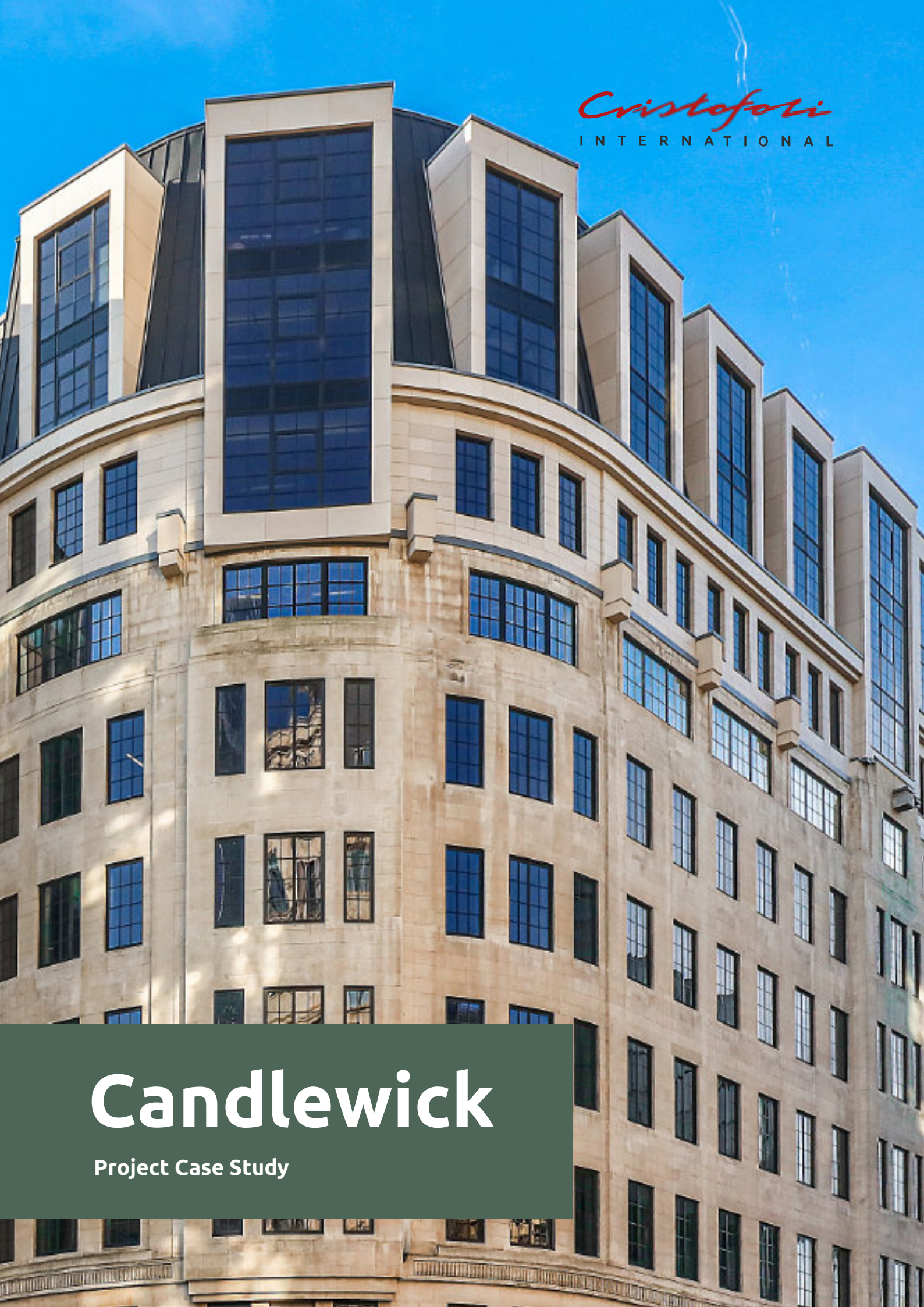


Candlewick

Project Case Study

Overview

The design and manufacture of lightweight external cladding panels for a two-story building extension in Candlewick, East London.

Moleanos Cristolite panels were used for their exceptional lightweight properties and seamless compatibility with the existing Portland stone facade, whilst minimising the additional loading on the building.

Scope of Works

Cristofoli was responsible for the design and manufacture of the cladding panels and subframe support system of the extension.

The facade of the extension featured both dormer windows and faceted panel sections, adding complexity to the design but still maintaining the building's architectural integrity.

Key Features

- Pre-fabricated cladding panels for quick and easy installation

- Moleanos used as an alternative to Portland stone

- Large cladding panel sizes

- Lightweight system (48kg/m2) instead of 50mm thick Portland (110kg/m2) to reduce structural requirements of subframe and total loading on building

- Fire-rated A2,s1-d0 CristoLite cladding panels

Portland Stone Alternative

The existing building featured Portland stone cladding, and the extension required a seamless integration with the original façade.

Moleanos, a Portuguese limestone with neutral light beige tones and subtle variations, was chosen for its close visual match to Portland stone. Renowned for its durability and wear resistance, it is an ideal material for external façades and high-traffic areas, offering a timeless aesthetic that complements the existing structure.

CristoLite™

CristoLite™ is our innovative, high-performance lightweight stone panel designed to meet the stringent demands of today's construction industry. It's particularly well suited for exterior high-rise facades for its fire and mechanical performance.

At our in-house laminating plant, we bond thin stone or porcelain veneers to high-performance substrates, creating lightweight panels with enhanced strength, durability and reduced weight.

Lightweight

Lighter panels minimise building load, speed up installation, simplify handling, and lower structural costs

Large Format

Strong mechanical performance at large format sizes with no bowing or warping

High-Strength

High-impact resistance, with excellent performance against wind loads and bomb blasts

Fire Resistance

Fully tested and fire test approved. Both A1 and A2 fire-rated panels available

Acoustic & Thermal

Excellent thermal and acoustic properties helping reduce transmission

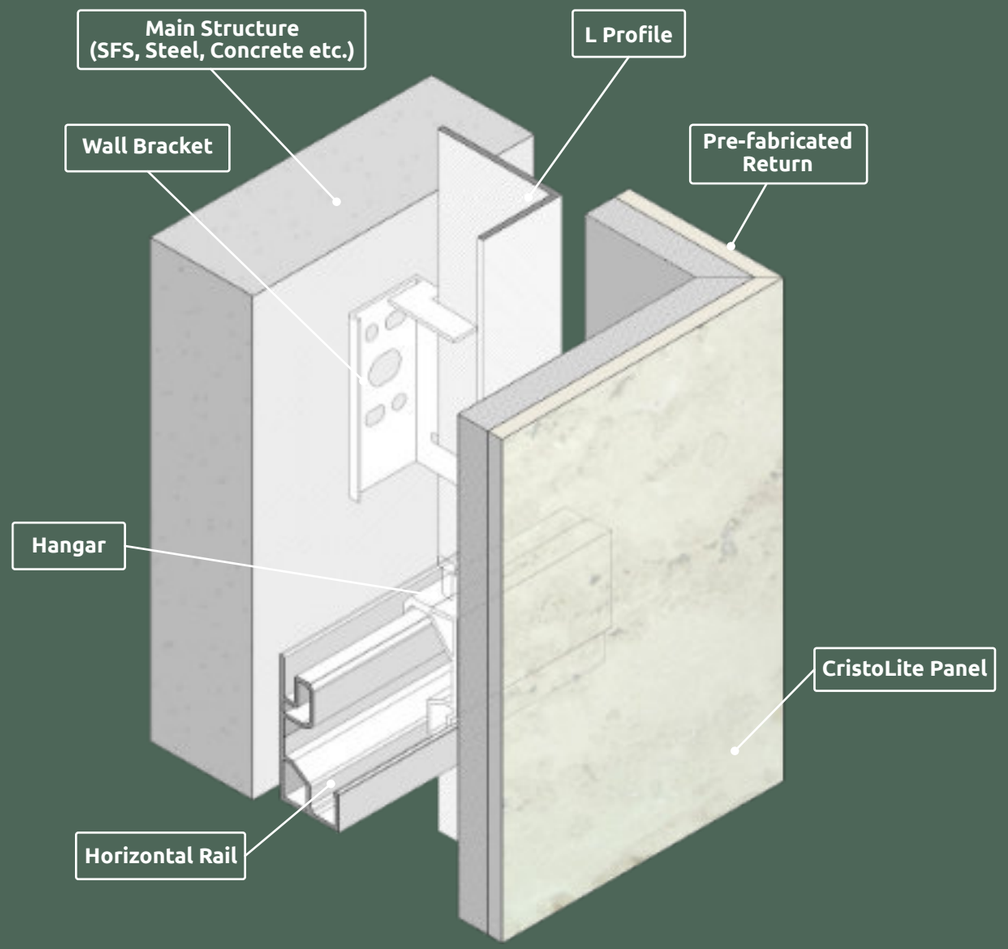
High Quality

Manufactured at our UK factory and engineered to the highest standards of quality

Subframe System

The project utilised our undercut anchor fixing system using intuitive interlocking components and pre-fabricated cladding panels for quick installation, reducing on-site time and costs.

Our in-house architects optimised the lightweight cladding panel sizes to reduce material wastage, while the subframe support system was engineered to limit additional load on the building.



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