



Castle Wharf Case Study

Location Manchester	Architect OMI	Contractor Focchi	Facade Focchi	Stone Supplier LSI Stone	Stone Moleanos
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This huge project stands out from all the others that have been done to date in the city. Situated on the historic Basin canal with the views towards Castlefield Chapel.

Designed by the architectural company OMI, and developed by the company FOCCHI at the façade level, this project had everything to work out with the Portuguese natural stone supplied by LSI Stone.

This building has 21 floors, thus providing 188 flats for housing in these two buildings. In addition to this stunning construction. Aesthetically futuristic on an architectural level, the structure also has 3 underground parking levels, which improves the accessibility of the site itself.

The façade application was made essentially with the female part of the Fisher fastening system.

The building's elevations are made with refined Portuguese Limestone cladding supplied by LSI Stone. This natural material is used in a contemporary aesthetic that provides the building with characteristics that differ from others.

Custom-made frames were to safely guarantee the transport of the stone system panels directly to the job site.

The production is highly complex, as there cannot be variations in the size of the stones. Its precision must be extremely controlled and has a very low tolerance so as not to compromise its application on the aluminium profile.



In terms of logistics, exclusively frames were developed to this process to optimize space, increase transport safety and significantly reduce costs.

Quality Control tests are being made at every step of the production. At every 10 blocks of stone, a control test takes place to ensure the quality and performance of the stone.

Very low tolerances were required to correctly adjust stone units to the system, this demanded a highly precise stone drilling process for the undercut anchor placing and the perfect installation of every stone in the aluminium frame.

Beige silicone was applied to close joints, this allowed to standardize the overall aesthetics of the facade.

Quality control on the factory floor: When the quality control process is done in a controlled industrial location, such as a factory floor, it can cover issues related to dimensional quality control or aesthetical quality control. This has been proven to be more effective than when it is done at a construction site.

Moleanos Limestone

This specific layer of Moleanos, MO limestone is a natural material that guarantees an overall aesthetical homogeneity to the facade of the building in Castle Wharf.

With this light beige material delivers limited background color variation, and limited shell content with blended perfectly in to this historical area of the city of Manchester.

Mechanically this natural stone guarantees performance in a facade application.



Flexural Streght (MPA)	Pull-out load (KN)	Mass by unit of volume (Kg/m3)	Open porosoty (%)	Water absortion (%)
9.4	3.4	2370	12.3	3.6



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