Quality Management Process

Team - Roles & Responsibilities

Design team maintained from concept design RIBA stage to ensure continuity of design intent. JMA Architects confidently delivering client expectation following early engagement through to handover of project. This allows JMA to sign off on the original design intent throughout the full duration of the project.

To further ensure quality is retained through duration of the project, Ramboll and B&F will be working through the same stages from early design development to handover.

Interface Management

To ensure a robust and quality interface between façade materials, the design is developed with experienced engineers at both Techrete and Henshaw under the overall guidance of BAM and JMA Architecture.

As this development progresses, Ramboll facades review the designed interfaces as an independent assessor at regular intervals to offer experienced advice and approve the detail as it advances.

Once the detail is fully designed and reviewed, the façade then undertakes rigorous testing through offsite and onsite CWCT testing measures. This testing is carried out and witnessed by the system manufacturer Schueco, Ramboll facades, BAM and other stakeholders where necessary.

Material Management and Quality

Both BAM and JMA have visited the Techrete manufacturing facility in Ireland to understand the process in greater detail but also understand the storage and ability to maintain the quality of material prior to the glazing of units where required. The inspection is also an opportunity to measure the quality of material that has been cast at the earliest point. These quality checks will take place before material has left Dublin to help ensure all façade materials meet the quality of the early signed off sample.

In addition to this sample, a full sample panel to demonstrate craft and quality of façade has been offered and approved by MCC. The concrete material is a bespoke mix mirroring NOMA project with unique pattern to the project to respond to panel set out. This was reviewed and documented by JMA Architecture prior to MCC review and report issued.

Transport of material from Ireland to Brigg for glazing and from Brigg to First St has been reviewed by BAM, Techrete and Henshaw to ensure deliveries are structured in a way that suits any site restraints but also providing comfort that material is being transported both safely and in a manner that will reduce risk of any detriment to quality.

During the glazing phase of the offsite manufacture, quality assurance will be managed by Henshaw supervisors reporting regularly back to BAM. In addition, BAM have will have a supervisor based in Brigg to report internally and to the client / wider team on any matters of quality or detail.

Material Repair Works

Repair works to façade materials has been considered and demonstrated by both Techrete and Henshaw with repair strategies provided should any works need to be carried out.

The methodology to repair the concrete is a Techrete repair mortar material that is executed by Techrete themselves. This repair was demonstrated on the large scale sample on site and documented for full review by MCC and the client. Techrete are conscious that these manner of works have to be very well considered since similar repairs across the industry have been poor and unacceptable. This is why the repair to the mock up was carried out to provide comfort that any future works would be acceptable.

Repair works to both panels and brise soleil in future has been outlined by Henshaw and Maple by the use of anodized panel scratch repair works. Both Maple and Henshaw have extensive experience in anodizes works and have demonstrated the ability to repair any works in previous works providing confidence.

Sub-Contractor Selection and Management

Given the experience and ability shown on other similar schemes, sub-contractors Techrete and Henshaw have been selected on their ability to achieve the original design intent. This balanced with the capability to provide a compliant and safe product that also achieves the required sustainability requirements under BREEAM.

As alluded to previously, BAM and independent assessor Ramboll facades will sit closely through both manufacture and install to ensure the product designed and detailed is aligned to the installed façade.