





# HSBC Headquarters, Birmingham



#### Introduction

HSBC UK's new headquarters in Birmingham spans 11 floors and employs over 2500 people, creating 700 new jobs.

The complex benefits from having an on-site gymnasium, dance studio and a training centre. It is the first building in Birmingham to be constructed to LEED (Leadership in Environmental and Energy Design) Gold accreditation, with sustainability at the heart of its design.

Both Henley Stone Ltd and Smart Crosby International Ltd are very proud to have been involved with this magnificent and iconic building.







## HSBC Headquarters, Birmingham



Scope -

Client -

Installer -

Designer -

Product -

Quantity -

Completion dates -

Construction of the new HSBC HQ

Galliford Try

Henley Stone Specialists Ltd

Smart Crosby International (SCI)

Grade 18p GRC Cladding panels & brackets.

7,500m2

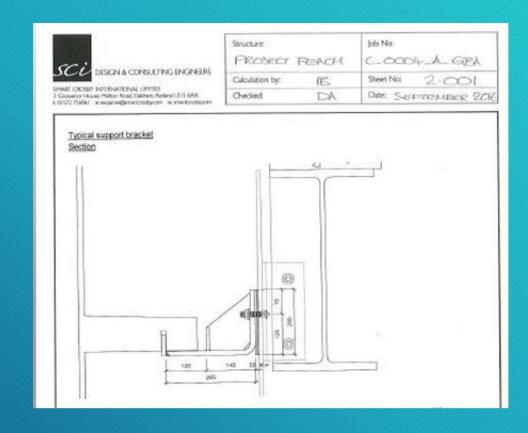
April 2018

#### Detailed Design





- Comprehensive detailing commissioned to SCI, included preparation of Key plans, GA Drawings, fabrication drawings [for fixings and GRC Panels], static calculations and design warranty.
- The detailing also encompassed all interface liaison with related trades, the install sequencing and mutually agreed tolerances.
- A substantial quantity of the GRC Panels, themselves weighing approximately 650kg, were to be attached directly to Metsec/SFS substrate. This incredibly challenging, indeed ground breaking, constraint for Grade 18P GRC Cladding, achievable via the deployment of Localized PFCs within the substrate.

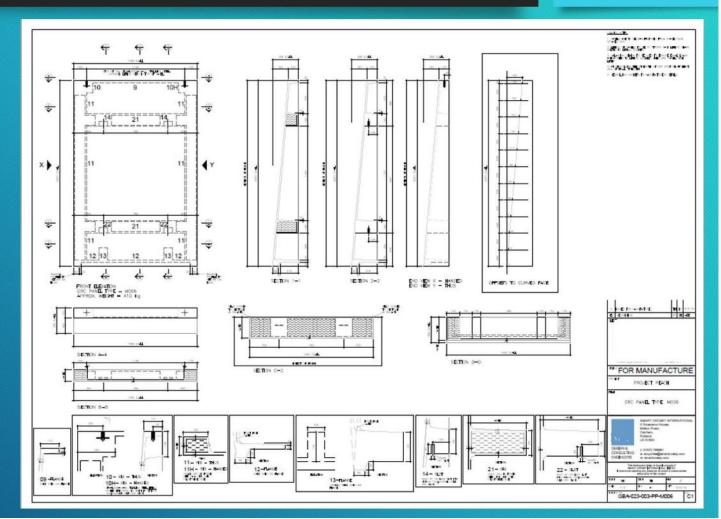


#### Drawings





Detail Fabrication Drawings were produced for all Panel Types. This included calculated Lifting Sockets/Points and all Mortices to accommodate pre-installed site bracketry....



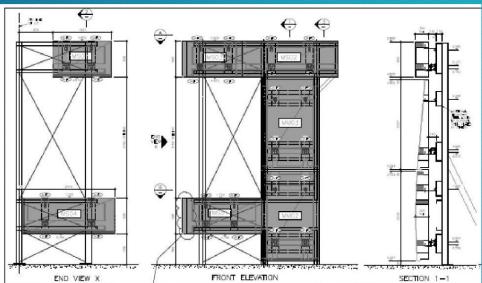
#### Mock up Installation







An extensive "as built", full size mock-up arrangement was designed and installed to ensure all fundamental aspects of lifting, installation, bracketry and tolerances, etc, could be accommodated.





### Pull Testing





- The large format panels, linked with the associated risks of a congested and restricted site, necessitated absolute confidence in the "cast in" lifting Sockets.
- Therefore, each individual Lifting Socket was tested prior to dispatch to ensure SWL compliance.
- A number of Destruction Tests were also carried out to ensure compliance with Design Loads.
- An example of the full-scale destruction test is shown in the adjacent image.



### Gallery





