

# CASE STUDY

## BURNHOUSE ENGINEERING



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## PRINCESS STREET, EDINBURGH INSTALLATION OF EXTERNAL TERRACED BALUSTRADE

**LOCATION:** Princess Street, Edinburgh  
**START / END DATE:** Sept – Oct 2020  
**SERVICE:** Manufacture and Installation

### BACKGROUND

The project was on behalf of a global fit out, technology and construction client as part of the conversion of a hotel in the prime location of Edinburgh's Princes Street overlooking the Princes Street Gardens.

The initial notice of the works was received as a standard construction competitive tender for which Burnhouse Engineering was successful.

The client provided the project design for which Burnhouse manufactured and installed a glass balustrade on level 4 on the external facing of the building.

### METHODOLOGY

Designs were provided by the client's architect. Burnhouse modelled the drawings on SolidWorks to provide a 3D environment image. This highlighted some anomalies for which solutions were recommended and were accepted by the client.

Manufacture of the works were then carried out at the Burnhouse workshop. The structure was constructed from carbon steel, aluminium, and structural glazing.

The structure was transported to site and installation was progressed to the client's construction team on level 3 and 4 of the building's external fascia. Burnhouse drilled and fitted 60 brackets to hold the glass securely in place.

The means of safety were provided and completed by the client and this project highlighted an excellent standard of working partnership between the Burnhouse and client teams when onsite.

Accreditations required for this project:

- Manufacturing of Structural Steelwork 1090/2
- Welder qualification.

### RESULTS

Anomalies in the design of the structure were highlighted by the 3D modelling and the accepted amends prevented undue delays and expensive changes after the structure arrived onsite for installation.



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