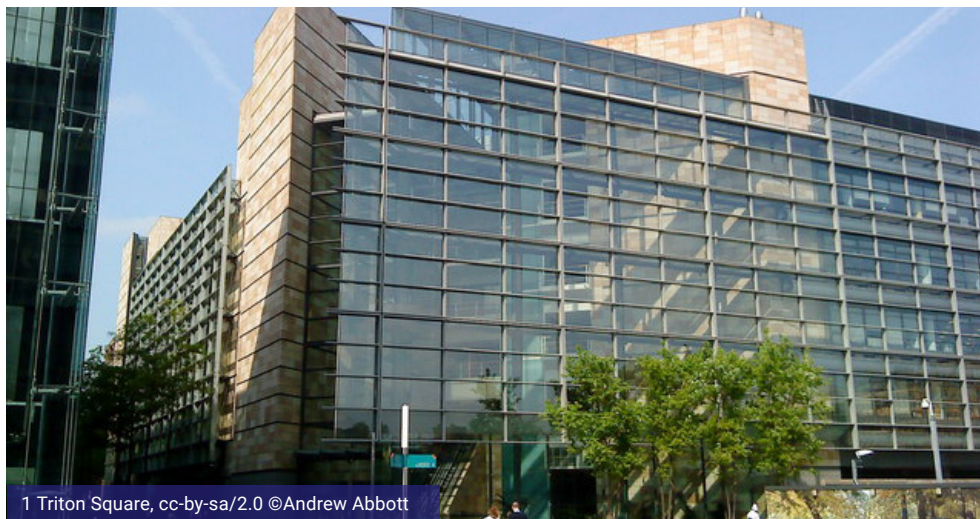




## Kite Glass Case Study

# Project Mint, 1 Triton Square, London



### Processes included

- Polishing
- Drilling
- Toughening
- Ultra-clear Heat Strengthening
- Heat Strengthening
- Lamination

### Summary

Originally built in the 1990's for trading and containing one of the largest enclosed atriums in London, 1 Triton Square is a 366,000sq ft office building, in Regent's Place, that has now gone through a full re-development.

With Arup as the original designers for the building and British Land as developer, these two entities aimed to retain and refurbish as much of the existing building as possible, rather than demolishing and building a new building. This re-development project included streamlining the atrium and cores of the existing structure, adding additional floor space to each existing level by using lightweight materials, with the overall goal to double the floor area and create an exemplary sustainable and healthy workplace for its 4,000 users. This environmentally responsible building project has saved 57,000 tonnes of CO<sup>2</sup> equivalent in construction and operation (the same as energy consumption in over 14,000 homes) and has been granted the 'Outstanding' BREEAM rating for sustainability.

Stairs were incorporated into the central atrium between floors to encourage connectivity and walking between floors. In the higher levels of the building, the stairs in the core are fully glazed to promote their use and provide exemplary views over London.

With Lendlease as Main Contractor for the construction, Kite Glass was awarded the contract to supply glass panels for some of the building's staircases. The initial order included 23 panels of 13.5mm low iron, heat strengthened glass (18.83m<sup>2</sup>) for a small staircase. Then, on a second stage, we supplied a further 278 panels of 25.5mm ultra-clear, low iron, heat strengthened glass, the equivalent of 535,79m<sup>2</sup>, to be used across the top seven floors of the staircase. Both sets of panels included a 1.52mm SentryGlas® interlayer, for its structural strength, clarity, and post breakage performance, as well as a Kite mark with specific positioning.



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