

BUILDING WINNER

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OF EXCELLENCE



BUILDING STRUCTURAL ANALYSIS, DESIGN, AND DOCUMENTATION

The Manchester Hilton is currently the tallest post-tension concrete residential building in the United Kingdom. It is a 49-story structure with 279 rooms for the hotel from levels four to 22, and 219 apartments from levels 25 to the roof. The tower is 155 meters high to the roof parapet and the feature blade structure extends a further 15 meters above the main roof, making the overall structure approximately 170 meters high.

The effective and accurate modeling of this tall, slender building provided a challenge to the design team. The ability of Bentley's RAM and STAAD products to modify input data easily and produce adequate and sensible output permitted the team to make informed decision during various stages of the project. This was critical for late changes requiring rapid decisions.

Manchester Hilton

WSP Group plc