



HOME @ FIRST STREET MANCHESTER, UK

BuroHappold's Smart Space team were appointed to model the visitor movements within the HOME at First Street Cultural Centre following a number of queries raised by the client and design team during RIBA Stage D. Following extensive dialogue with the various client parties, a number of assumptions documents were generated summarising the highly complicated movements and visitor profiles expected during a peak weekend scenario. These included operations for five cinemas, two theatres and several bar areas, as well as toilets, galleries and concourse/foyer spaces.

Following initial static analysis to guide the project, a detailed dynamic people flow model was created using SmartMove, which covered the arrivals and departures for all scenarios. This modelling identified where clashes within the building were to be expected, as well as analysing space provision and spectator density in the foyer and bar areas during the main theatre interval. Analysis of queuing areas for the cinemas was also undertaken. The

work allowed a number of conclusions and recommendations to be drawn, including advice on the timing and profiling of events, bar operations (pre-order drinks/bar locations/temporary facilities) and the placement of ticket sale locations. Overall the analysis showed that the building design would operate, within a set of key operational parameters.

CLIENT
Manchester City Council

ARCHITECT
Mecanoo Architecten Bv

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Smart Space – People Flow & Space Analysis