



# 34-BED BUILD TO RENT CUSTOM WI-FI INSTALLATION

Our professional Wi-Fi installations for Build to Rent properties focus on providing the correct bandwidth, wireless capacity and wireless signal to all tenant & staff devices. This 34-bed property spanned over two floors and two buildings on the same plot, therefore, the Wi-Fi layout was critical to providing a seamless solution.



## Coverage

A Wi-Fi access point in every flat for a strong signal



## Security

A secure, roaming Wi-Fi network for each building



## Capacity

Sufficient capacity for up to 150 devices used for working from home, video calling, streaming and online gaming



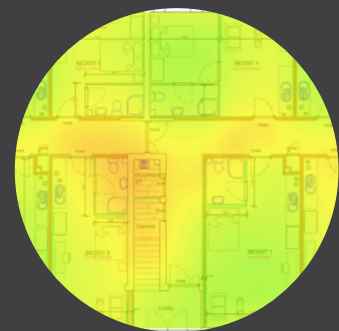
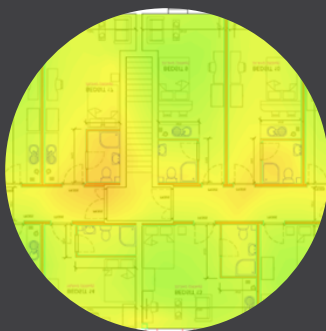


## OUR BTR WI-FI SOLUTION

- We liaised with the client and the contractors to discuss network cabling to each flat, the network room location and routing the Openreach network to the cabinet location.
- Using our professional Wi-Fi design software, we uploaded the floor plans and scaled them. Next, we drew the buildings and input all attenuation areas such as walls, doors, electrical appliances, furniture etc. We then created Wi-Fi coverage heatmaps.

## AVOIDING INTERFERENCE

- A channel and transmit power plan for the 2.4 and 5 GHz frequencies was created to avoid Co-Channel Interference. This was a vital step for this project due to the number and proximity of the access points. Our team advised on the best locations within each flat for the access points and we created a channel plan for the 2.4 GHz & 5 GHz frequency which involved turning off the 2.4 radios on certain access points. The transmit power of the access points was meticulously designed so that interference between radios was avoided. A capacity plan helped to ensure the wireless capacity would be sufficient for all devices to connect concurrently.



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## INSTALLATION AND SECOND FIX

- The next step was the installation: The client used their M & E contractors to install data cabling from the network room to the Wi-Fi access points locations and their contractors also installed a link cable from building A to building B.
- The second fix installation followed: We returned to the site to install and commission the broadband & Wi-Fi service. We set up the network cabinet in both properties, terminated all network cabling onto patch panels, wall mounted the Wi-Fi access points into their dedicated locations per flat, configured the Wi-Fi networks and carried out final testing from all areas. Lastly, the tenants were provided with access details.

## THE RESULT

We created a seamless roaming Wi-Fi service for both buildings, allowing all 34 end users to video call, work from home & stream. We were able to provide sufficient bandwidth for all tenants with no dead zones. With a single portfolio bill and 24/7/365 tenant support, there is no hassle for the landlord.

