SITE survey. APP

SITE SURVEY REPORT

Wi-Fi Site Survey

Prepared for	Old Mill Studios Ltd
Date	25 Sep 2026
Site	Old Mill Studios, Halifax
Prepared by	H. Clarke

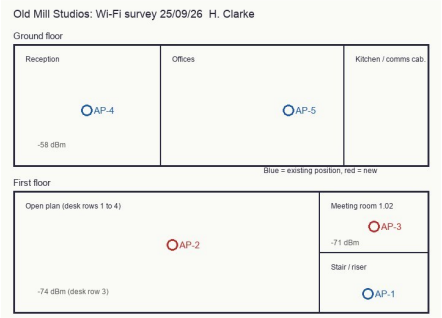
FORM

Wi-Fi Site Survey

1. Survey details

Project	Old Mill Studios, Halifax: Wi-Fi survey
Customer	Old Mill Studios Ltd
Site	Old Mill Studios, ground and first floor offices
Site address	Old Mill Studios, Wharf Street, Halifax HX1
Date of survey	25 Sep 2026
Surveyor	H. Clarke
Type of survey	Existing network with problems
What problems have been reported, and where?	Video calls drop in the first floor open plan area and meeting room 1.02. Reported by the office manager, A. Reid.
How are you surveying?	Walk round with a survey tool and floor plan, Speed and connection tests on the live network
Survey tool and device used	Survey software on a laptop with a USB Wi-Fi adapter
Do you have scaled floor plans?	Yes

Floor plan marked with readings and proposed access point positions



2. What the network must do

People on Wi-Fi at the busiest time	45
Devices at the busiest time	110
What will connect?	Laptops, Phones and tablets, Voice or video calls over Wi-Fi, Printers, Wireless presentation in meeting rooms, Guest devices
What must never drop out?	Video calls from the meeting rooms and the sales team's softphones

Where is coverage needed?	All offices, meeting rooms and the kitchen on both floors, and the courtyard benches
Is outdoor coverage needed?	Yes
Is a separate guest network needed?	Yes
Bands to design for	2.4 GHz, 5 GHz
Target signal strength at the edge of coverage	-67 dBm or better

3. The building

Type of building	Office
Number of floors to cover	2
What are the walls and obstructions made of?	Brick or block, Plasterboard or stud partitions, Glass partitions, Fire doors kept closed
Ceilings	Suspended tile
Typical ceiling height (m)	2.7
Possible sources of interference seen	Neighbouring Wi-Fi networks, Microwave ovens
Neighbouring networks seen at the worst spot	14

4. Existing network and cabling

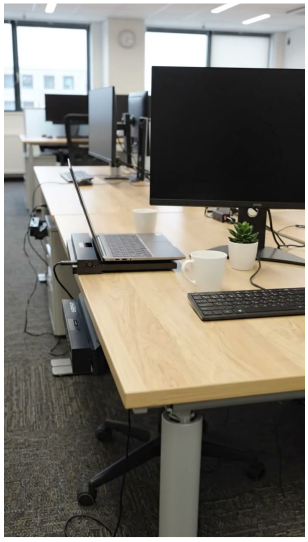
Is there Wi-Fi on site now?	Yes
Make and model of the access points	Wi-Fi 5 ceiling access points, standalone
Number of access points	3
How are they managed?	Each one on its own
Comms room or cabinet the access points will connect to	Comms cabinet in the ground floor store
Do the switches have spare PoE ports for the access points?	Yes
PoE standard on the switches	802.3at (PoE+)
Existing data cabling	Cat6
Internet speed, download (Mbps)	500
Internet speed, upload (Mbps)	75

5. Area by area readings

Areas measured 1: First floor open plan

Room or area	First floor open plan
Floor	First
How is the area used?	Open plan desks
People at the busiest time	28
Strongest signal (dBm)	-74
Signal to noise ratio (dB)	18
Band measured	5 GHz
Speed test, download (Mbps)	38
Speed test, upload (Mbps)	9
Result against the target	Does not meet the target
Notes	One access point at the stair end covers the whole floor. Signal falls away past the second row of desks.

Photos of the area

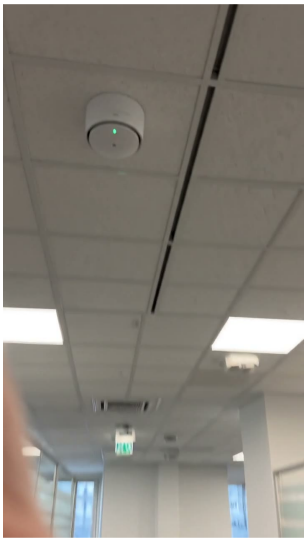


Access point positions in this area 1: AP-1

Reference on the plan	AP-1
Position in this area	Corridor end, existing position by the stair
Indoor or outdoor	Indoor

Mounting	Ceiling
Mounting height (m)	2.7
Cable route back to the cabinet	Existing cable. Swap the access point only.
Does it need a new cable?	No

Photos of the position



Access point positions in this area 2: AP-2

Reference on the plan	AP-2
Position in this area	Above desk row 3
Indoor or outdoor	Indoor
Mounting	Ceiling
Mounting height (m)	2.7
Cable route back to the cabinet	Ceiling void to the first floor riser, then down to the ground floor cabinet
Estimated cable length (m)	38
Does it need a new cable?	Yes
Does the route pass through a fire-resisting wall, floor or riser?	Yes, fire-stopping needed
This area: access points proposed	2
This area: total cable (m)	38

Areas measured 2: Meeting room 1.02

Room or area	Meeting room 1.02

Floor	First
How is the area used?	Meeting room
People at the busiest time	10
Strongest signal (dBm)	-71
Signal to noise ratio (dB)	21
Band measured	5 GHz
Speed test, download (Mbps)	52
Speed test, upload (Mbps)	12
Result against the target	Marginal
Notes	Glass partition, fire door kept shut. Test call broke up twice.

Access point positions in this area 1: AP-3

Reference on the plan	AP-3
Position in this area	Centre of the ceiling
Indoor or outdoor	Indoor
Mounting	Ceiling
Mounting height (m)	2.7
Cable route back to the cabinet	Ceiling void, following the AP-2 route
Estimated cable length (m)	32
Does it need a new cable?	Yes
Does the route pass through a fire-resisting wall, floor or riser?	Yes, fire-stopping needed
This area: access points proposed	1
This area: total cable (m)	32

Areas measured 3: Reception and ground floor offices

Room or area	Reception and ground floor offices
Floor	Ground
How is the area used?	Reception or public area
People at the busiest time	7

Strongest signal (dBm)	-58
Signal to noise ratio (dB)	32
Band measured	5 GHz
Speed test, download (Mbps)	180
Speed test, upload (Mbps)	60
Result against the target	Meets the target

Access point positions in this area 1: AP-4

Reference on the plan	AP-4
Position in this area	Existing position over the reception desk
Indoor or outdoor	Indoor
Mounting	Ceiling
Mounting height (m)	2.7
Cable route back to the cabinet	Existing cable. Swap the access point only.
Does it need a new cable?	No

Access point positions in this area 2: AP-5

Reference on the plan	AP-5
Position in this area	Existing position by the kitchen
Indoor or outdoor	Indoor
Mounting	Ceiling
Mounting height (m)	2.7
Cable route back to the cabinet	Existing cable. Swap the access point only.
Does it need a new cable?	No
This area: access points proposed	2
This area: total cable (m)	0

Areas measured 4: Courtyard

Room or area	Courtyard
Floor	Ground

How is the area used?	Outdoor
People at the busiest time	12
Strongest signal (dBm)	-79
Signal to noise ratio (dB)	12
Band measured	5 GHz
Speed test, download (Mbps)	6
Speed test, upload (Mbps)	1
Result against the target	Does not meet the target

> Weaker than -75 dBm. Most devices will struggle to hold a good connection here.

Notes	Staff take calls and work at the benches in good weather. Signal leaks out through the reception glazing only.

Photos of the area



Access point positions in this area 1: AP-6

Reference on the plan	AP-6
Position in this area	On the courtyard wall above the side door
Indoor or outdoor	Outdoor
Position (GPS)	Courtyard wall · 53.725118, -1.857224 (SE 09518 25422, ±7 m)
Mounting	Wall
Mounting height (m)	2.66

Mounting height (m): measuring photo



Cable route back to the cabinet	Through the wall above the side door into the ground floor ceiling void, then to the store cabinet
Estimated cable length (m)	24
Does it need a new cable?	Yes
Does the route pass through a fire-resisting wall, floor or riser?	No

Photos of the position



This area: access points proposed	1
This area: total cable (m)	24
Areas measured	4
Areas that do not meet the target	2

Areas that are marginal	1
Areas that meet the target	1
Areas measured that meet the target (%)	25
Weakest area signal (dBm)	-79
Access points proposed	6
Total cable (m)	94

6. Access and safe working

Hours the work can be done	Weekdays after 18:00, or Saturdays
Access restrictions	Building opens at 07:30. Comms cabinet key held by the office manager.
Will any of the work be at height?	Yes
Access equipment needed	Podium steps
Was the building built before 2000?	Yes
Have you seen the asbestos register for the areas where you will drill or work above ceilings?	Asked for, not received

> Asbestos. Buildings built before 2000 can contain asbestos. Get the asbestos register from the person in charge of the building before anyone drills, fixes to walls or lifts ceiling tiles.

Other hazards the install team should know about	Converted mill. Do not lift ceiling tiles or drill until the asbestos register has been seen.

7. Summary and sign-off

Overall result	Changes needed to the existing network
Recommendations	Add two access points on the first floor and an outdoor one for the courtyard, and replace all three existing units with centrally managed ones so devices move between them cleanly. Keep guest devices on their own network.
Next steps and who will do them	H. Clarke to send a quote by 2 October 2026, including fire-stopping where the new cables for AP-2 and AP-3 pass down the riser and a weatherproof entry for AP-6. A. Reid to get the asbestos register from the landlord.
Surveyor name	H. Clarke

Surveyor signature

