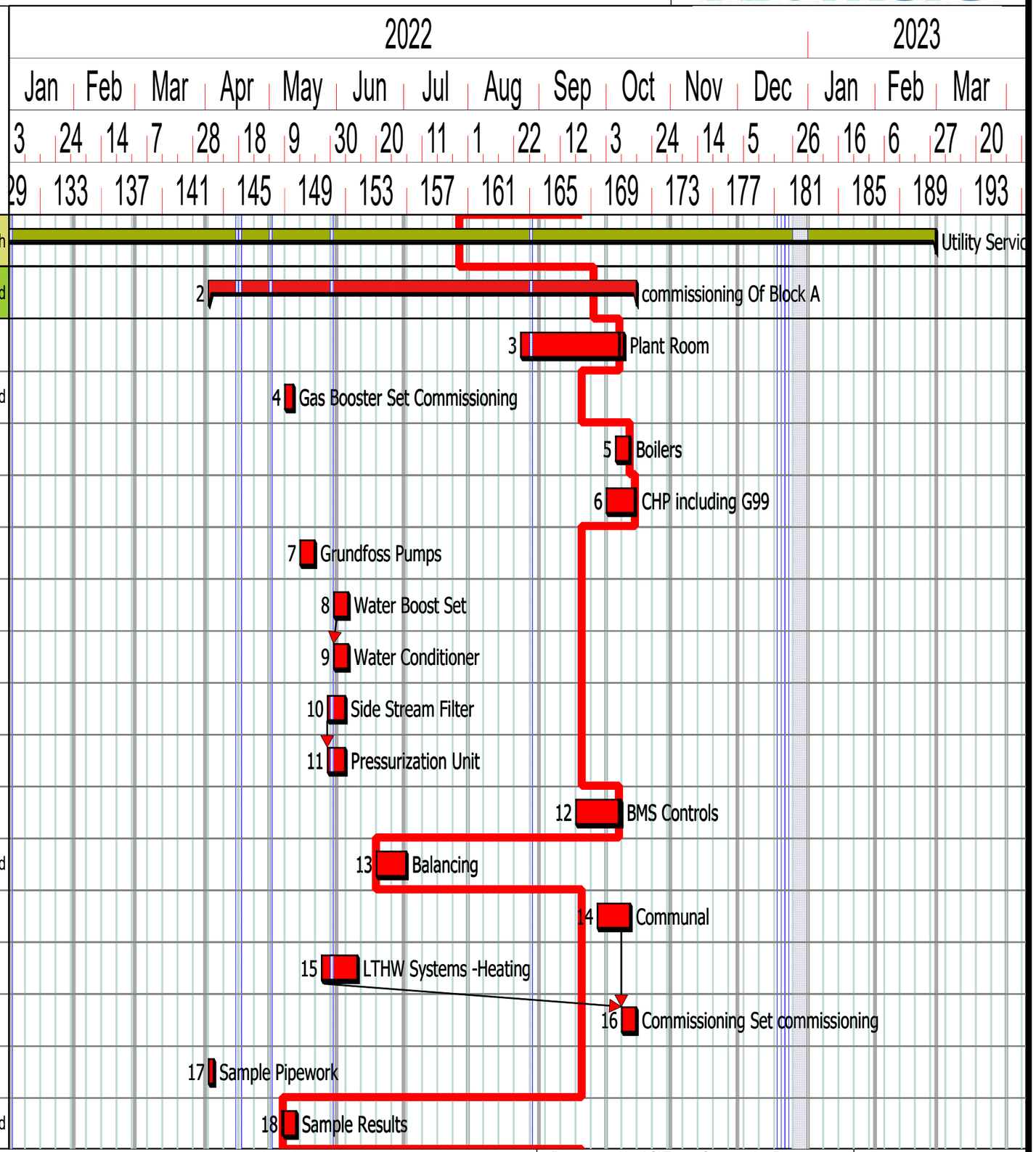
Client: FEC
Issue Date: 30/09/2022
Rev. Date:

# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 1 | Utility Services and site wide drainage | 91w 4d | 26/04/2021 | 28/02/2023 | 36.93 | -1d 5.46h |
| 2 | commissioning Of Block A | 27w 2h | 04/04/2022 | 14/10/2022 | 73.82 | 8w 1.19d |
| 3 | Plant Room | 6w 3d | 24/08/2022 | 10/10/2022 | 95.00 | |
| 4 | Gas Booster Set Commissioning | 3d | 09/05/2022 | 11/05/2022 | 100.00 | -11w 3d |
| 5 | Boilers | 1w | 06/10/2022 | 12/10/2022 | 95.00 | |
| 6 | CHP including G99 | 2w | 03/10/2022 | 14/10/2022 | 95.00 | |
| 7 | Grundfoss Pumps | 1w | 16/05/2022 | 20/05/2022 | 100.00 | |
| 8 | Water Boost Set | 1w | 31/05/2022 | 06/06/2022 | 100.00 | |
| 9 | Water Conditioner | 1w | 31/05/2022 | 06/06/2022 | 100.00 | |
| 10 | Side Stream Filter | 1w | 27/05/2022 | 03/06/2022 | 100.00 | |
| 11 | Pressurization Unit | 1w | 27/05/2022 | 03/06/2022 | 100.00 | |
| 12 | BMS Controls | 3w | 19/09/2022 | 07/10/2022 | 95.00 | |
| 13 | Balancing | 2w | 20/06/2022 | 01/07/2022 | | -5w 4d |
| 14 | Communal | 2w 1d | 28/09/2022 | 12/10/2022 | | |
| 15 | LTHW Systems -Heating | 2w 1d | 25/05/2022 | 09/06/2022 | 100.00 | |
| 16 | Commissioning Set commissioning | 1w | 10/10/2022 | 14/10/2022 | | |
| 17 | Sample Pipework | 2d | 04/04/2022 | 05/04/2022 | 100.00 | |
| 18 | Sample Results | 1w | 06/05/2022 | 12/05/2022 | 10.00 | -11w 4d |



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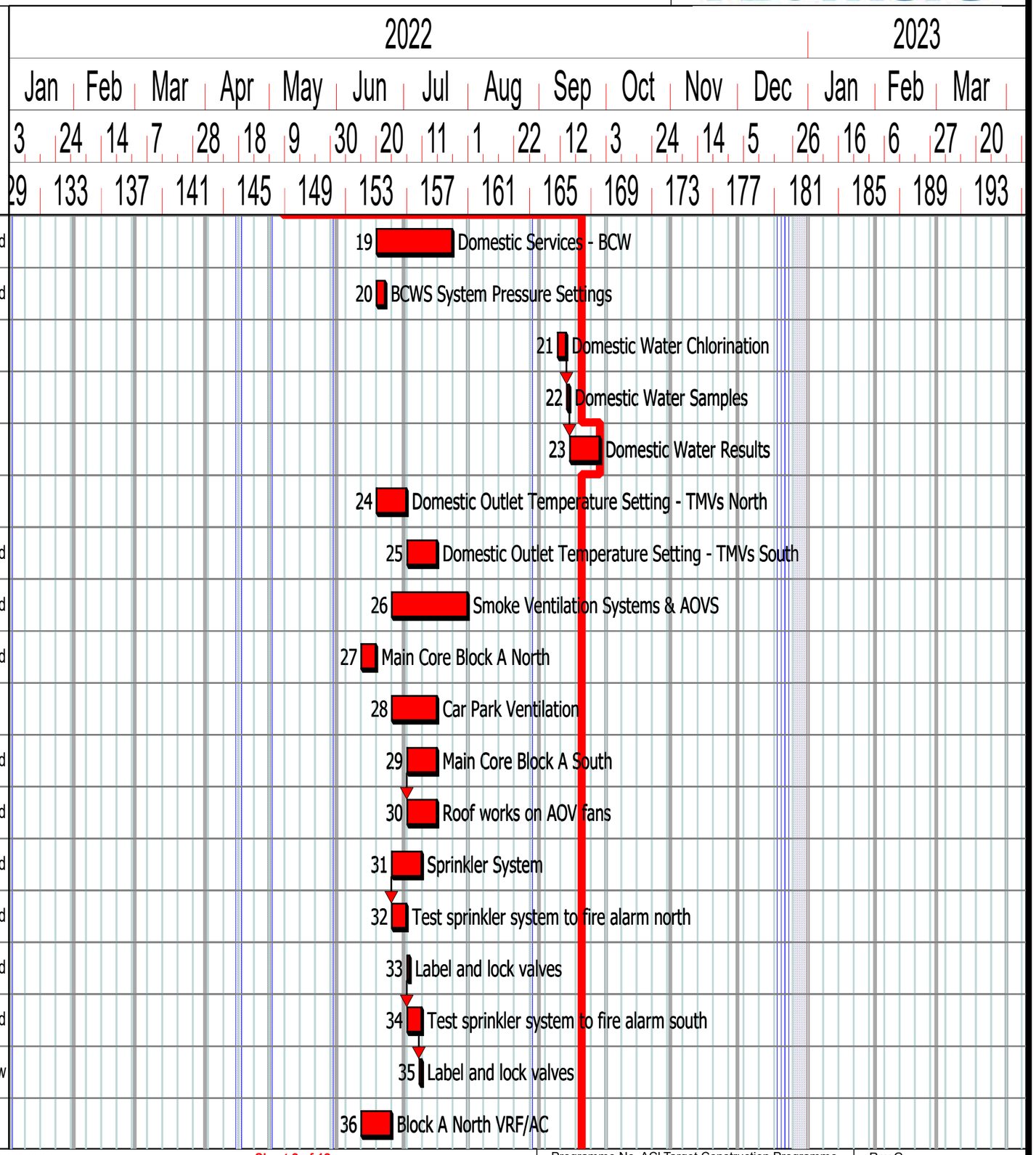
# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 19 | Domestic Services - BCW | 5w | 20/06/2022 | 22/07/2022 | 100.00 | -5w 4d |
| 20 | BCWS System Pressure Settings | 3d | 20/06/2022 | 22/06/2022 | 100.00 | -5w 4d |
| 21 | Domestic Water Chlorination | 3d | 09/09/2022 | 13/09/2022 | 100.00 | |
| 22 | Domestic Water Samples | 1d | 14/09/2022 | 14/09/2022 | 100.00 | |
| 23 | Domestic Water Results | 2w | 15/09/2022 | 28/09/2022 | 100.00 | |
| 24 | Domestic Outlet Temperature Setting - TMVs North | 2w | 20/06/2022 | 01/07/2022 | 100.00 | |
| 25 | Domestic Outlet Temperature Setting - TMVs South | 2w | 04/07/2022 | 15/07/2022 | 100.00 | -3w 4d |
| 26 | Smoke Ventilation Systems & AOVS | 5w | 27/06/2022 | 29/07/2022 | 100.00 | -4w 4d |
| 27 | Main Core Block A North | 1w | 13/06/2022 | 17/06/2022 | 100.00 | -6w 4d |
| 28 | Car Park Ventilation | 3w | 27/06/2022 | 15/07/2022 | 100.00 | |
| 29 | Main Core Block A South | 2w | 04/07/2022 | 15/07/2022 | 100.00 | -3w 4d |
| 30 | Roof works on AOV fans | 2w | 04/07/2022 | 15/07/2022 | 100.00 | -3w 4d |
| 31 | Sprinkler System | 2w | 27/06/2022 | 08/07/2022 | 100.00 | -4w 4d |
| 32 | Test sprinkler system to fire alarm north | 1w | 27/06/2022 | 01/07/2022 | 100.00 | -4w 4d |
| 33 | Label and lock valves | 1d | 04/07/2022 | 04/07/2022 | 100.00 | -3w 4d |
| 34 | Test sprinkler system to fire alarm south | 1w | 04/07/2022 | 08/07/2022 | 100.00 | -3w 4d |
| 35 | Label and lock valves | 1d | 08/07/2022 | 08/07/2022 | 100.00 | -3w |
| 36 | Block A North VRF/AC | 2w | 13/06/2022 | 24/06/2022 | 100.00 | |



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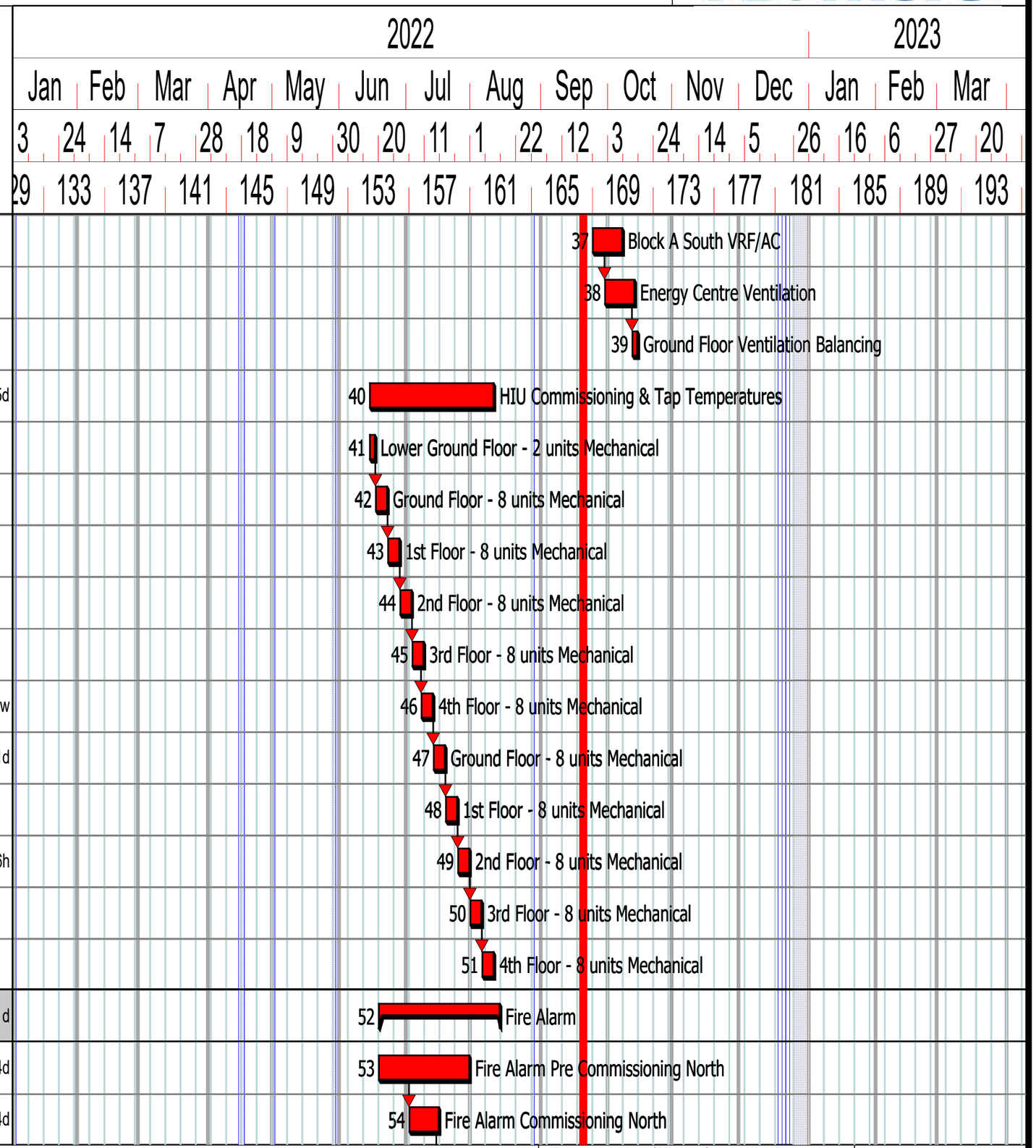
# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 37 | Block A South VRF/AC | 2w | 26/09/2022 | 07/10/2022 | | |
| 38 | Energy Centre Ventilation | 2w | 30/09/2022 | 13/10/2022 | | |
| 39 | Ground Floor Ventilation Balancing | 2d | 13/10/2022 | 14/10/2022 | | |
| 40 | HIU Commissioning & Tap Temperatures | 8w 1d | 15/06/2022 | 10/08/2022 | 100.00 | -1w 4.45d |
| 41 | Lower Ground Floor - 2 units Mechanical | 2d | 15/06/2022 | 16/06/2022 | 100.00 | |
| 42 | Ground Floor - 8 units Mechanical | 4d | 17/06/2022 | 22/06/2022 | 100.00 | |
| 43 | 1st Floor - 8 units Mechanical | 4d | 23/06/2022 | 28/06/2022 | 100.00 | |
| 44 | 2nd Floor - 8 units Mechanical | 4d | 29/06/2022 | 04/07/2022 | 100.00 | |
| 45 | 3rd Floor - 8 units Mechanical | 4d | 05/07/2022 | 08/07/2022 | 100.00 | |
| 46 | 4th Floor - 8 units Mechanical | 4d | 08/07/2022 | 13/07/2022 | 100.00 | -3w |
| 47 | Ground Floor - 8 units Mechanical | 4d | 14/07/2022 | 19/07/2022 | 100.00 | -2w 1d |
| 48 | 1st Floor - 8 units Mechanical | 4d | 20/07/2022 | 25/07/2022 | 100.00 | |
| 49 | 2nd Floor - 8 units Mechanical | 4d | 26/07/2022 | 29/07/2022 | 100.00 | -1d 6h |
| 50 | 3rd Floor - 8 units Mechanical | 4d | 01/08/2022 | 04/08/2022 | 100.00 | |
| 51 | 4th Floor - 8 units Mechanical | 4d | 05/08/2022 | 10/08/2022 | 100.00 | |
| 52 | Fire Alarm | 8w | 20/06/2022 | 12/08/2022 | 100.00 | 2w 1d |
| 53 | Fire Alarm Pre Commissioning North | 6w | 20/06/2022 | 29/07/2022 | 100.00 | -5w 4d |
| 54 | Fire Alarm Commissioning North | 2w | 04/07/2022 | 15/07/2022 | 100.00 | -3w 4d |



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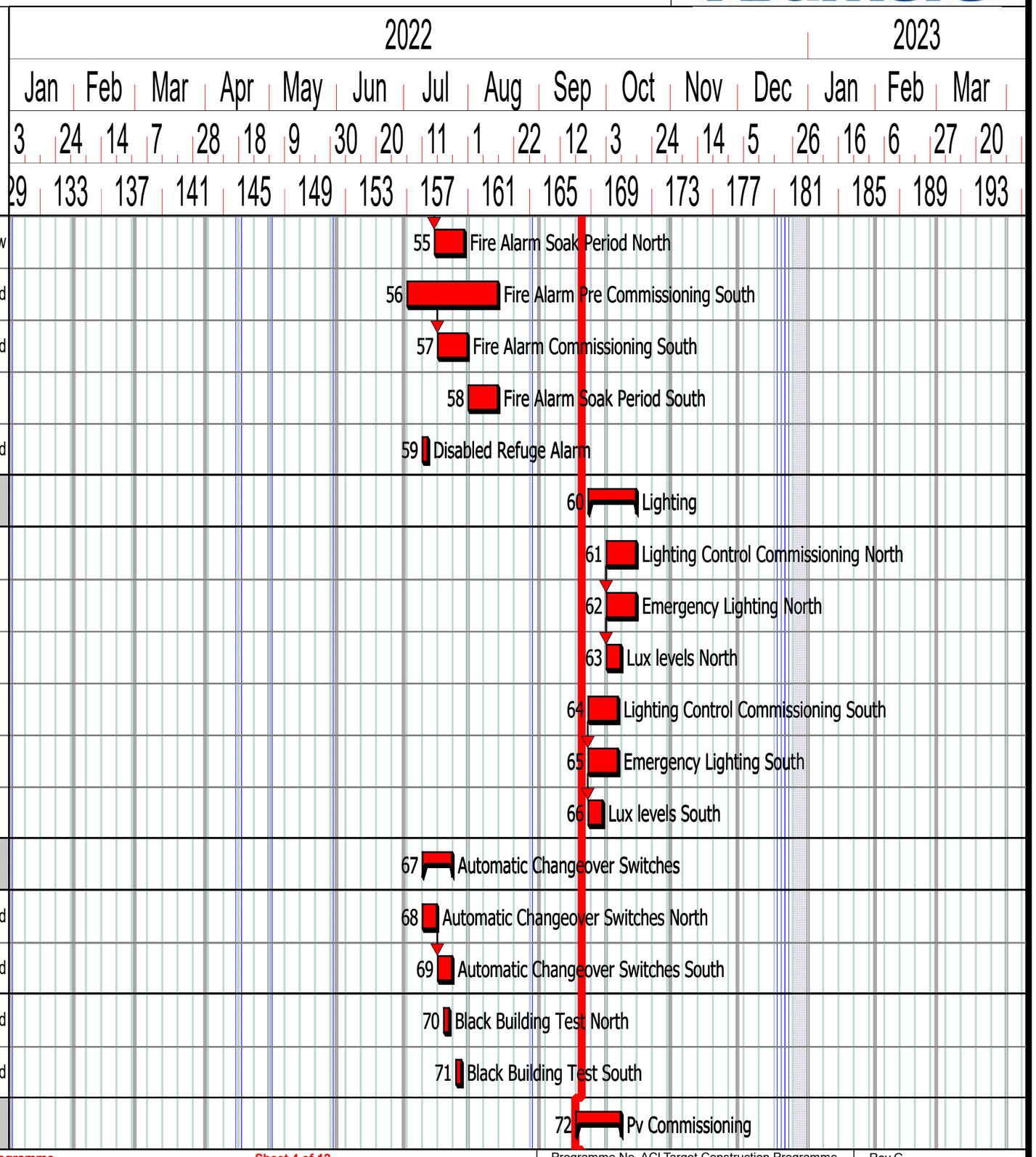
# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 55 | Fire Alarm Soak Period North | 2w | 15/07/2022 | 28/07/2022 | 100.00 | -2w |
| 56 | Fire Alarm Pre Commissioning South | 6w | 04/07/2022 | 12/08/2022 | 100.00 | -3w 4d |
| 57 | Fire Alarm Commissioning South | 2w | 18/07/2022 | 29/07/2022 | 100.00 | -1w 4d |
| 58 | Fire Alarm Soak Period South | 2w | 01/08/2022 | 12/08/2022 | 100.00 | |
| 59 | Disabled Refuge Alarm | 2d | 11/07/2022 | 12/07/2022 | 100.00 | -2w 4d |
| 60 | Lighting | 3w 1d | 23/09/2022 | 14/10/2022 | | |
| 61 | Lighting Control Commissioning North | 2w | 03/10/2022 | 14/10/2022 | | |
| 62 | Emergency Lighting North | 2w | 03/10/2022 | 14/10/2022 | | |
| 63 | Lux levels North | 1w | 03/10/2022 | 07/10/2022 | | |
| 64 | Lighting Control Commissioning South | 2w | 23/09/2022 | 06/10/2022 | | |
| 65 | Emergency Lighting South | 2w | 23/09/2022 | 06/10/2022 | | |
| 66 | Lux levels South | 1w | 23/09/2022 | 29/09/2022 | | |
| 67 | Automatic Changeover Switches | 2w | 11/07/2022 | 22/07/2022 | 100.00 | |
| 68 | Automatic Changeover Switches North | 1w | 11/07/2022 | 15/07/2022 | 100.00 | -2w 4d |
| 69 | Automatic Changeover Switches South | 1w | 18/07/2022 | 22/07/2022 | 100.00 | -1w 4d |
| 70 | Black Building Test North | 2d | 20/07/2022 | 21/07/2022 | 100.00 | -1w 2d |
| 71 | Black Building Test South | 2d | 26/07/2022 | 27/07/2022 | 100.00 | -3d |
| 72 | Pv Commissioning | 3w | 19/09/2022 | 07/10/2022 | | |



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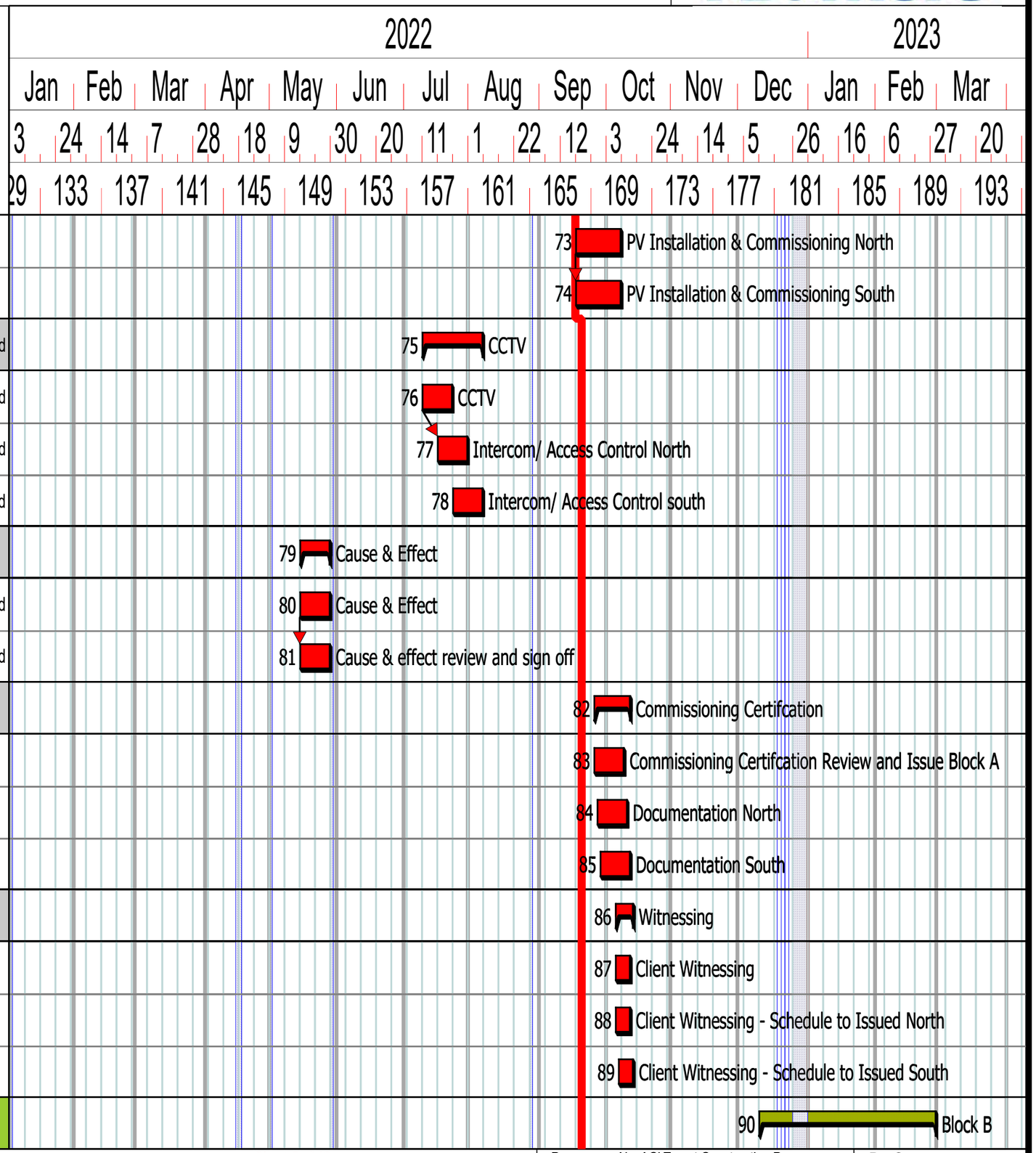
# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 73 | PV Installation & Commissioning North | 3w | 19/09/2022 | 07/10/2022 | | |
| 74 | PV Installation & Commissioning South | 3w | 19/09/2022 | 07/10/2022 | | |
| 75 | CCTV | 4w | 11/07/2022 | 05/08/2022 | 100.00 | 1w 1d |
| 76 | CCTV | 2w | 11/07/2022 | 22/07/2022 | 100.00 | -2w 4d |
| 77 | Intercom/ Access Control North | 2w | 18/07/2022 | 29/07/2022 | 100.00 | -1w 4d |
| 78 | Intercom/ Access Control south | 2w | 25/07/2022 | 05/08/2022 | 100.00 | -4d |
| 79 | Cause & Effect | 2w | 16/05/2022 | 27/05/2022 | 100.00 | |
| 80 | Cause & Effect | 2w | 16/05/2022 | 27/05/2022 | 100.00 | -10w 3d |
| 81 | Cause & effect review and sign off | 2w | 16/05/2022 | 27/05/2022 | 100.00 | -10w 3d |
| 82 | Commissioning Certifcation | 2w 2d | 27/09/2022 | 12/10/2022 | | |
| 83 | Commissioning Certifcation Review and Issue Block A | 2w | 27/09/2022 | 10/10/2022 | | |
| 84 | Documentation North | 2w | 28/09/2022 | 11/10/2022 | | |
| 85 | Documentation South | 2w | 29/09/2022 | 12/10/2022 | | |
| 86 | Witnessing | 1w 1d | 06/10/2022 | 13/10/2022 | | |
| 87 | Client Witnessing | 1w | 06/10/2022 | 12/10/2022 | | |
| 88 | Client Witnessing - Schedule to Issued North | 1w | 06/10/2022 | 12/10/2022 | | |
| 89 | Client Witnessing - Schedule to Issued South | 1w | 07/10/2022 | 13/10/2022 | | |
| 90 | Block B | 10w 3d | 12/12/2022 | 28/02/2023 | | |



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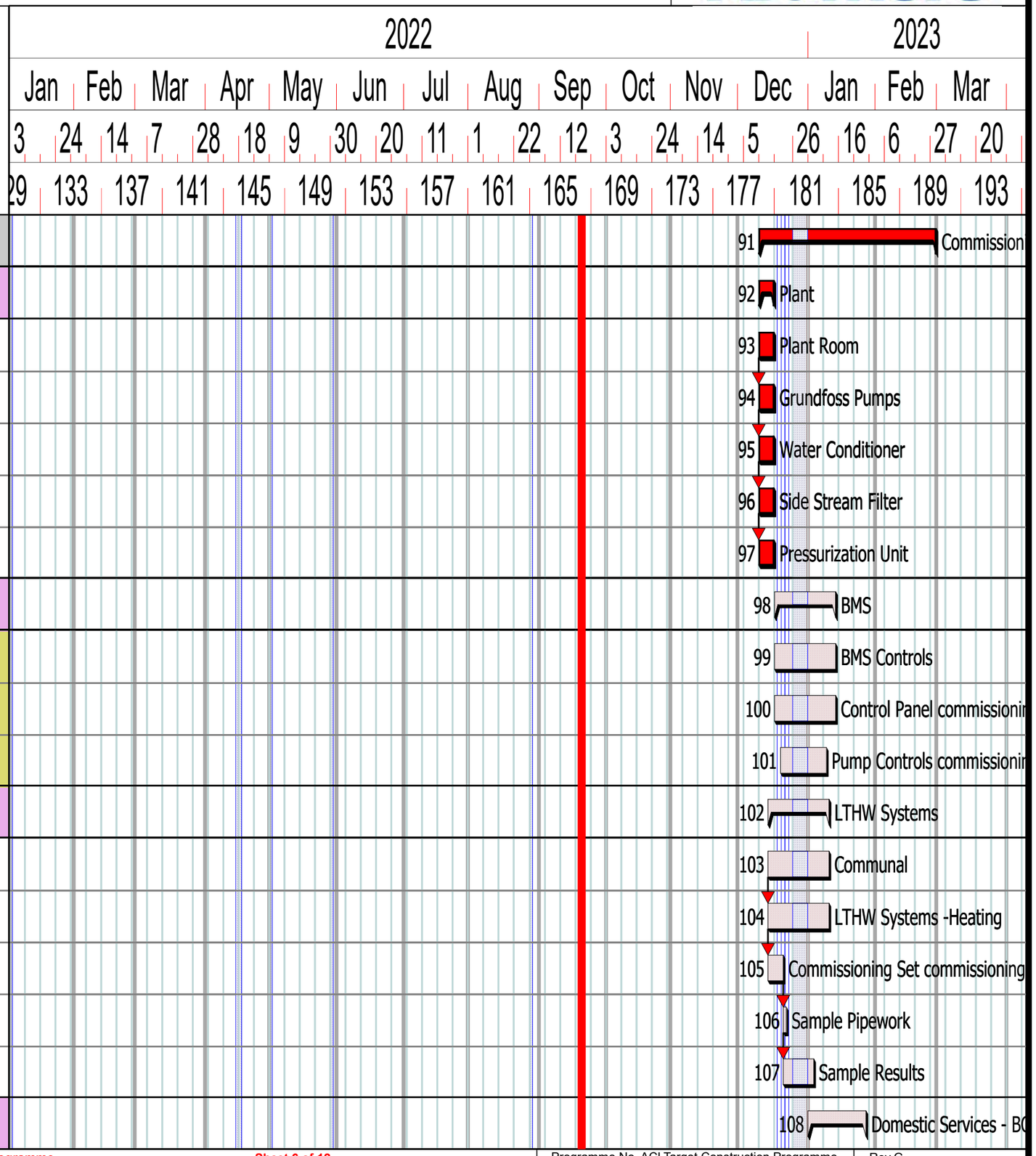
# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 91 | Commissioning Of Block B | 10w 3d | 12/12/2022 | 28/02/2023 | | |
| 92 | Plant | 1w | 12/12/2022 | 16/12/2022 | | |
| 93 | Plant Room | 1w | 12/12/2022 | 16/12/2022 | | |
| 94 | Grundfoss Pumps | 1w | 12/12/2022 | 16/12/2022 | | |
| 95 | Water Conditioner | 1w | 12/12/2022 | 16/12/2022 | | |
| 96 | Side Stream Filter | 1w | 12/12/2022 | 16/12/2022 | | |
| 97 | Pressurization Unit | 1w | 12/12/2022 | 16/12/2022 | | |
| 98 | BMS | 3w | 19/12/2022 | 13/01/2023 | | |
| 99 | BMS Controls | 3w | 19/12/2022 | 13/01/2023 | | |
| 100 | Control Panel commissioning | 3w | 19/12/2022 | 13/01/2023 | | |
| 101 | Pump Controls commissioning | 2w | 20/12/2022 | 10/01/2023 | | |
| 102 | LTHW Systems | 3w | 15/12/2022 | 10/01/2023 | | |
| 103 | Communal | 3w | 15/12/2022 | 10/01/2023 | | |
| 104 | LTHW Systems -Heating | 3w | 15/12/2022 | 10/01/2023 | | |
| 105 | Commissioning Set commissioning | 1w | 15/12/2022 | 21/12/2022 | | |
| 106 | Sample Pipework | 1d | 21/12/2022 | 22/12/2022 | | |
| 107 | Sample Results | 1w | 21/12/2022 | 03/01/2023 | | |
| 108 | Domestic Services - BCW | 3w 4d | 02/01/2023 | 26/01/2023 | | |



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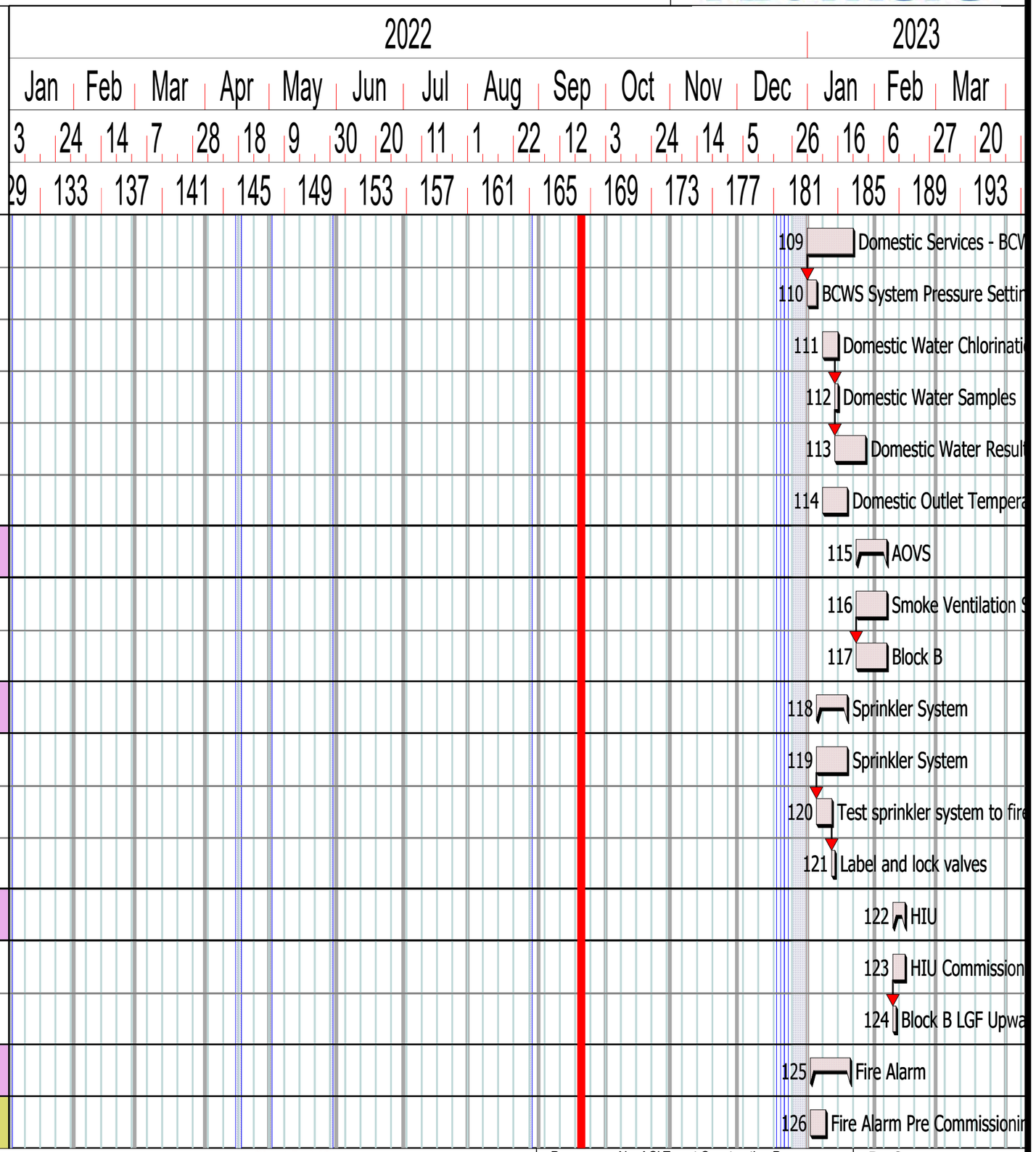
# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 109 | Domestic Services - BCW | 3w | 02/01/2023 | 20/01/2023 | | |
| 110 | BCWS System Pressure Settings | 3d | 02/01/2023 | 04/01/2023 | | |
| 111 | Domestic Water Chlorination | 1w | 09/01/2023 | 13/01/2023 | | |
| 112 | Domestic Water Samples | 1d | 13/01/2023 | 13/01/2023 | | |
| 113 | Domestic Water Results | 2w | 13/01/2023 | 26/01/2023 | | |
| 114 | Domestic Outlet Temperature Setting | 1w 3d | 09/01/2023 | 18/01/2023 | | |
| 115 | AOVS | 2w | 24/01/2023 | 06/02/2023 | | |
| 116 | Smoke Ventilation Systems & AOVS | 2w | 24/01/2023 | 06/02/2023 | | |
| 117 | Block B | 2w | 24/01/2023 | 06/02/2023 | | |
| 118 | Sprinkler System | 2w | 05/01/2023 | 18/01/2023 | | |
| 119 | Sprinkler System | 2w | 05/01/2023 | 18/01/2023 | | |
| 120 | Test sprinkler system to fire alarm Block B | 1w | 05/01/2023 | 11/01/2023 | | |
| 121 | Label and lock valves | 1d | 12/01/2023 | 12/01/2023 | | |
| 122 | HIU | 4d | 09/02/2023 | 14/02/2023 | | |
| 123 | HIU Commissioning & Tap Temperatures | 4d | 09/02/2023 | 14/02/2023 | | |
| 124 | Block B LGF Upwards | 1d | 09/02/2023 | 09/02/2023 | | |
| 125 | Fire Alarm | 2w 3d | 03/01/2023 | 19/01/2023 | | |
| 126 | Fire Alarm Pre Commissioning | 1w | 03/01/2023 | 09/01/2023 | | |



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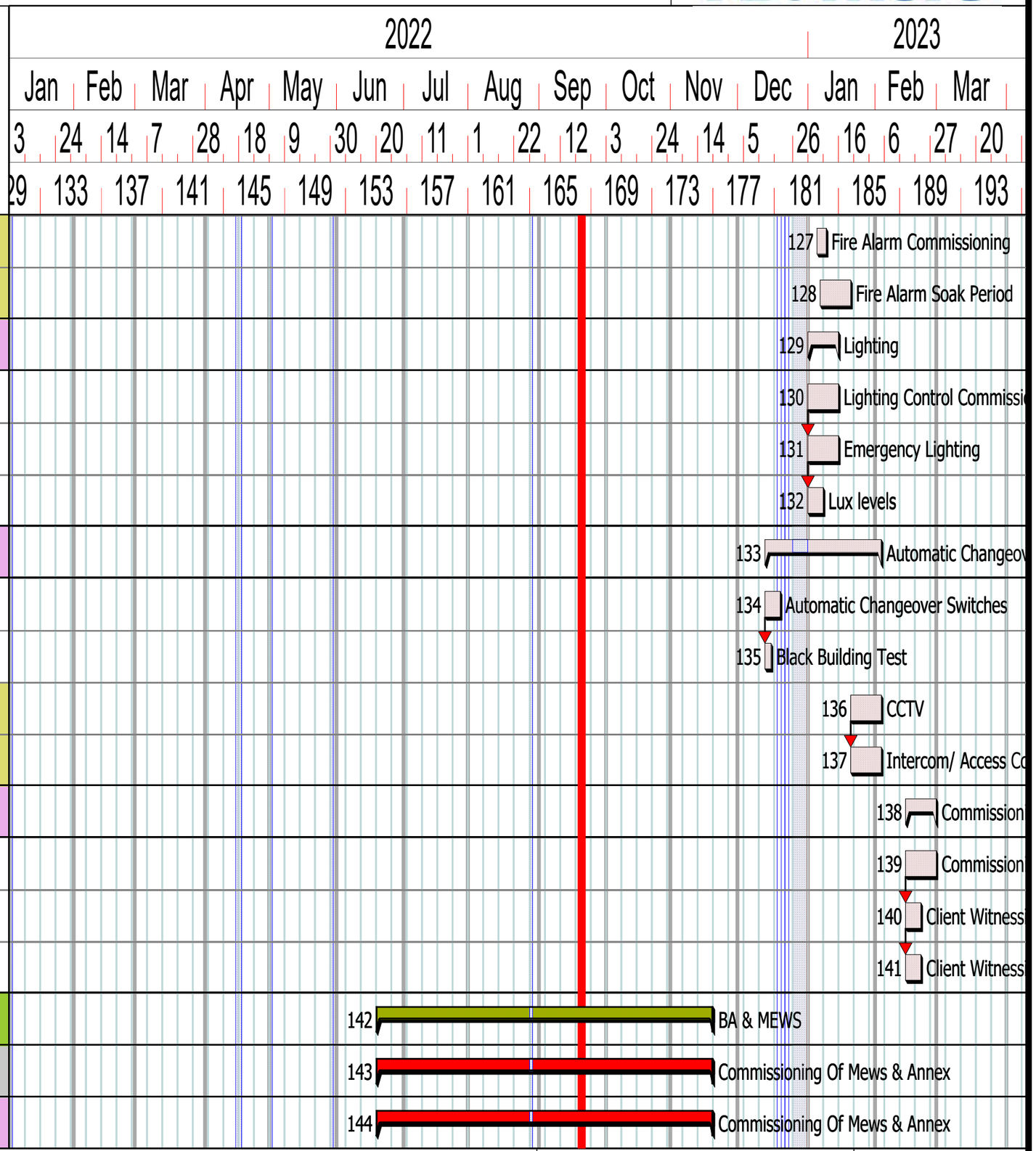
# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 127 | Fire Alarm Commissioning | 3d | 05/01/2023 | 09/01/2023 | | |
| 128 | Fire Alarm Soak Period | 2w | 06/01/2023 | 19/01/2023 | | |
| 129 | Lighting | 2w | 02/01/2023 | 13/01/2023 | | |
| 130 | Lighting Control Commissioning | 2w | 02/01/2023 | 13/01/2023 | | |
| 131 | Emergency Lighting | 2w | 02/01/2023 | 13/01/2023 | | |
| 132 | Lux levels | 1w | 02/01/2023 | 06/01/2023 | | |
| 133 | Automatic Changeover/CCTV | 6w 3d | 14/12/2022 | 02/02/2023 | | |
| 134 | Automatic Changeover Switches | 1w | 14/12/2022 | 20/12/2022 | | |
| 135 | Black Building Test | 2d | 14/12/2022 | 15/12/2022 | | |
| 136 | CCTV | 2w | 20/01/2023 | 02/02/2023 | | |
| 137 | Intercom/ Access Control | 2w | 20/01/2023 | 02/02/2023 | | |
| 138 | Commissioning Certifcation | 2w | 15/02/2023 | 28/02/2023 | | |
| 139 | Commissioning Certifcation Review and Issue Block B | 2w | 15/02/2023 | 28/02/2023 | | |
| 140 | Client Witnessing | 1w | 15/02/2023 | 21/02/2023 | | |
| 141 | Client Witnessing - Schedule to Issued | 1w | 15/02/2023 | 21/02/2023 | | |
| 142 | BA & MEWS | 21w 4d | 20/06/2022 | 18/11/2022 | 2.33 | |
| 143 | Commissioning Of Mews & Annex | 21w 4d | 20/06/2022 | 18/11/2022 | 2.33 | |
| 144 | Commissioning Of Mews & Annex | 21w 4d | 20/06/2022 | 18/11/2022 | 2.33 | |



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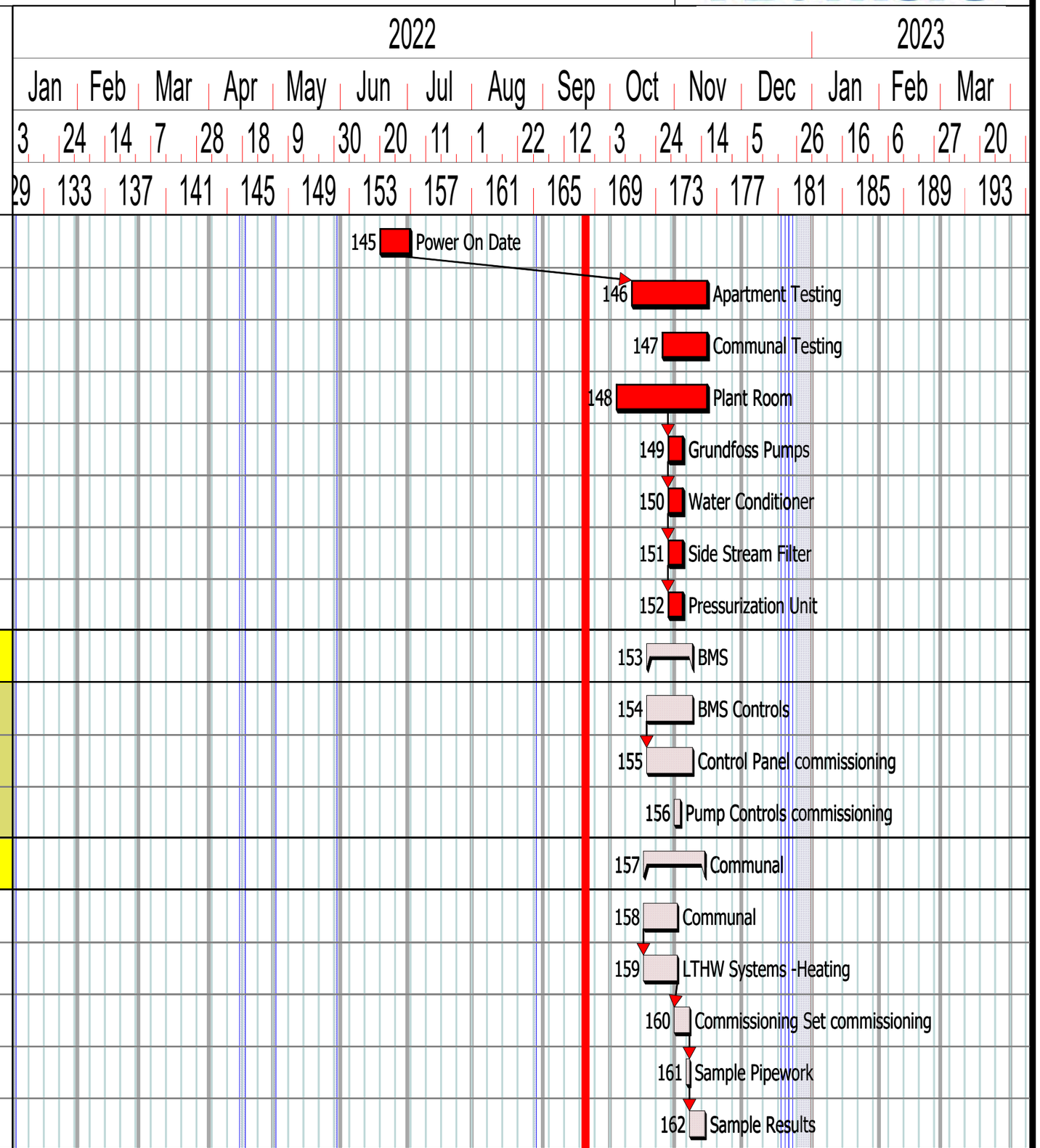
# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 145 | Power On Date | 2w | 20/06/2022 | 01/07/2022 | 100.00 | |
| 146 | Apartment Testing | 5w | 12/10/2022 | 15/11/2022 | | |
| 147 | Communal Testing | 3w | 26/10/2022 | 15/11/2022 | | |
| 148 | Plant Room | 6w | 05/10/2022 | 15/11/2022 | | |
| 149 | Grundfoss Pumps | 1w | 28/10/2022 | 03/11/2022 | | |
| 150 | Water Conditioner | 1w | 28/10/2022 | 03/11/2022 | | |
| 151 | Side Stream Filter | 1w | 28/10/2022 | 03/11/2022 | | |
| 152 | Pressurization Unit | 1w | 28/10/2022 | 03/11/2022 | | |
| 153 | BMS | 3w | 19/10/2022 | 08/11/2022 | | |
| 154 | BMS Controls | 3w | 19/10/2022 | 08/11/2022 | | |
| 155 | Control Panel commissioning | 3w | 19/10/2022 | 08/11/2022 | | |
| 156 | Pump Controls commissioning | 2d | 01/11/2022 | 02/11/2022 | | |
| 157 | Communal | 4w | 18/10/2022 | 14/11/2022 | | |
| 158 | Communal | 2w 1d | 18/10/2022 | 01/11/2022 | | |
| 159 | LTHW Systems -Heating | 2w 1d | 18/10/2022 | 01/11/2022 | | |
| 160 | Commissioning Set commissioning | 1w | 01/11/2022 | 07/11/2022 | | |
| 161 | Sample Pipework | 1d | 07/11/2022 | 07/11/2022 | | |
| 162 | Sample Results | 1w | 08/11/2022 | 14/11/2022 | | |



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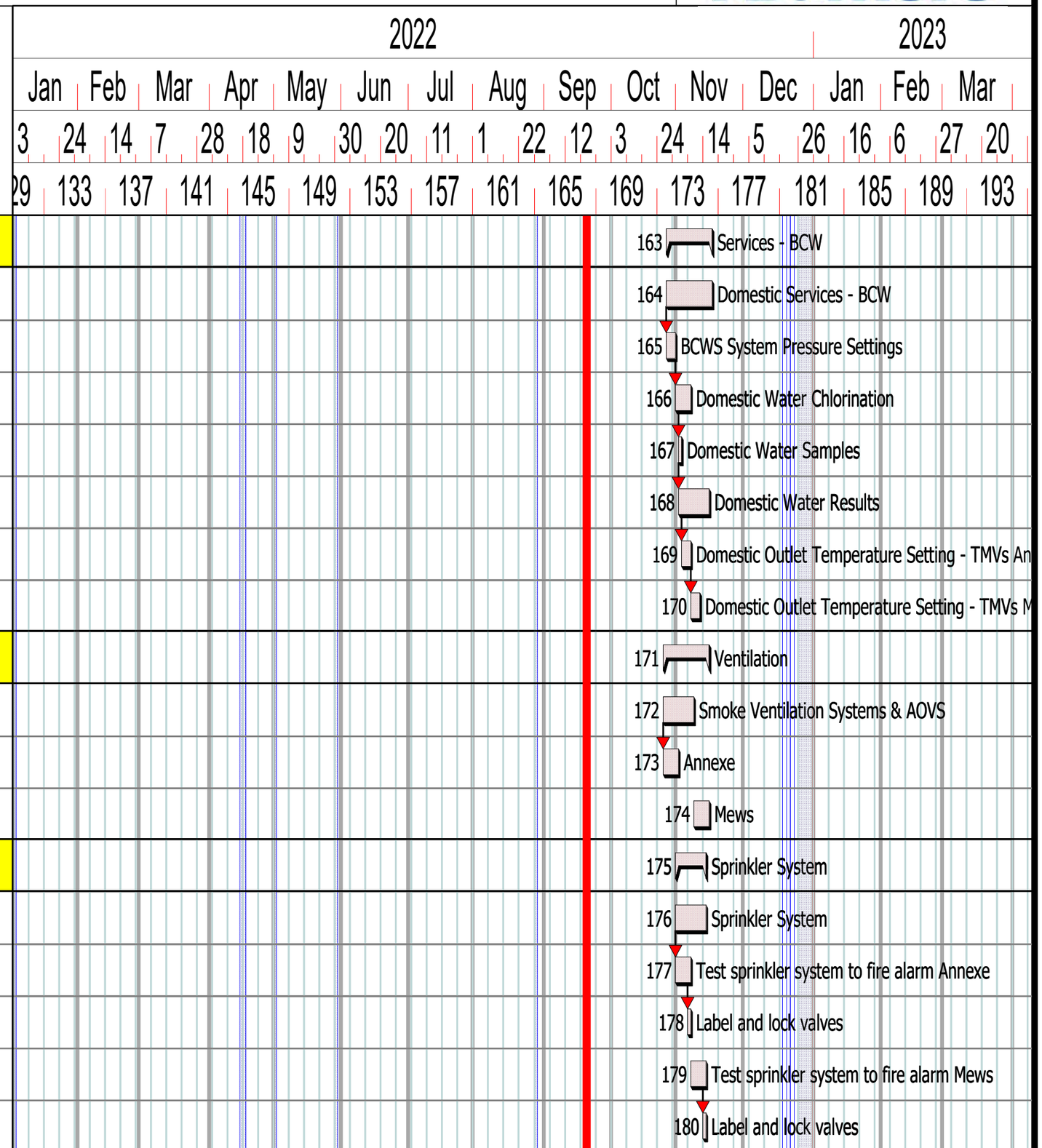
# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 163 | Services - BCW | 3w | 27/10/2022 | 16/11/2022 | | |
| 164 | Domestic Services - BCW | 3w | 27/10/2022 | 16/11/2022 | | |
| 165 | BCWS System Pressure Settings | 3d | 27/10/2022 | 31/10/2022 | | |
| 166 | Domestic Water Chlorination | 1w | 01/11/2022 | 07/11/2022 | | |
| 167 | Domestic Water Samples | 1d | 02/11/2022 | 02/11/2022 | | |
| 168 | Domestic Water Results | 2w | 02/11/2022 | 15/11/2022 | | |
| 169 | Domestic Outlet Temperature Setting - TMVs Annexe | 3d | 03/11/2022 | 07/11/2022 | | |
| 170 | Domestic Outlet Temperature Setting - TMVs Mews | 3d | 08/11/2022 | 10/11/2022 | | |
| 171 | Ventilation | 3w | 26/10/2022 | 15/11/2022 | | |
| 172 | Smoke Ventilation Systems & AOVS | 2w | 26/10/2022 | 08/11/2022 | | |
| 173 | Annexe | 1w | 26/10/2022 | 01/11/2022 | | |
| 174 | Mews | 1w | 09/11/2022 | 15/11/2022 | | |
| 175 | Sprinkler System | 2w | 01/11/2022 | 14/11/2022 | | |
| 176 | Sprinkler System | 2w | 01/11/2022 | 14/11/2022 | | |
| 177 | Test sprinkler system to fire alarm Annexe | 1w | 01/11/2022 | 07/11/2022 | | |
| 178 | Label and lock valves | 1d | 07/11/2022 | 07/11/2022 | | |
| 179 | Test sprinkler system to fire alarm Mews | 1w | 08/11/2022 | 14/11/2022 | | |
| 180 | Label and lock valves | 1d | 14/11/2022 | 14/11/2022 | | |



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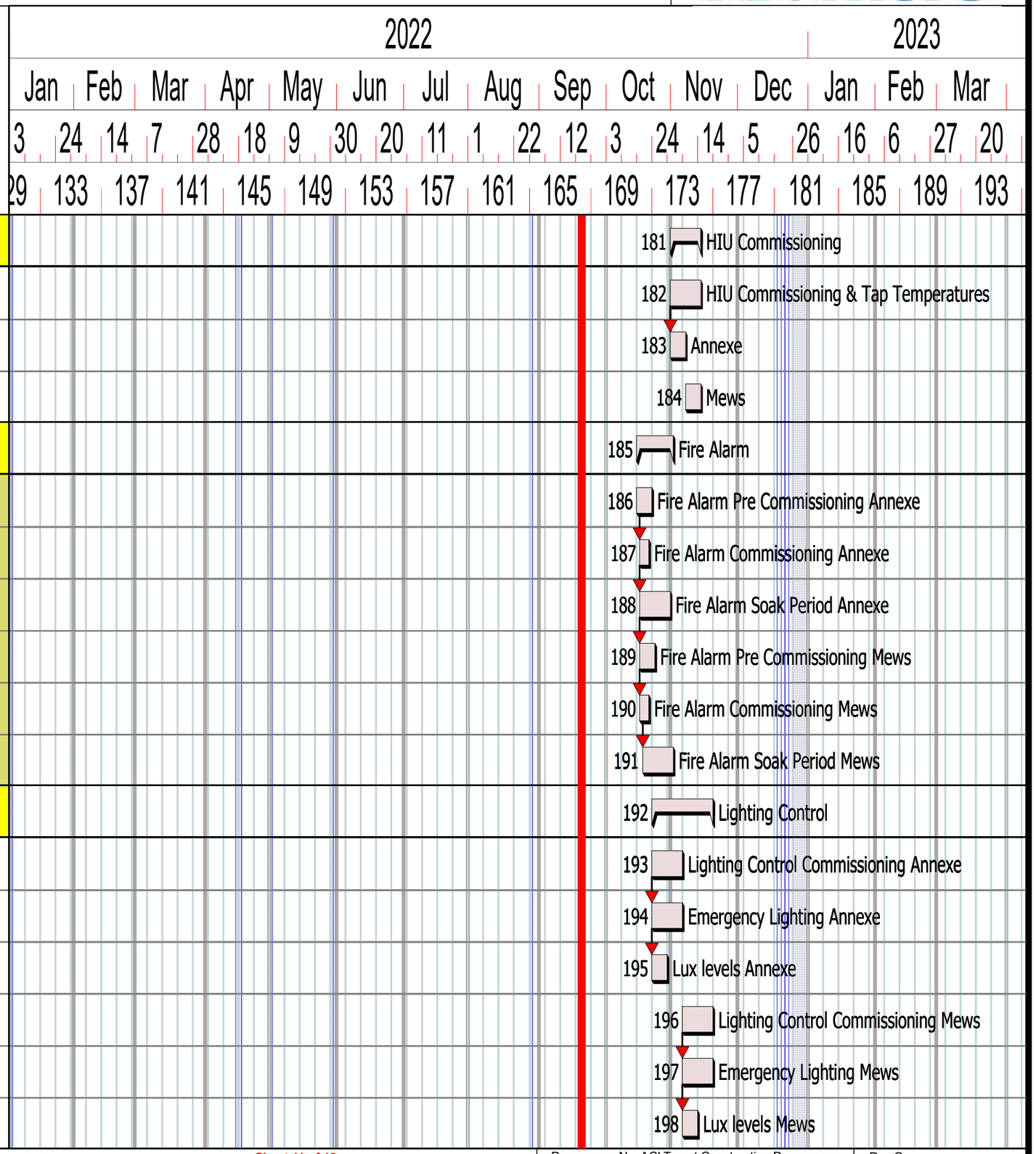
# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 181 | HIU Commissioning | 2w | 01/11/2022 | 14/11/2022 | | |
| 182 | HIU Commissioning & Tap Temperatures | 2w | 01/11/2022 | 14/11/2022 | | |
| 183 | Annexe | 1w | 01/11/2022 | 07/11/2022 | | |
| 184 | Mews | 1w | 08/11/2022 | 14/11/2022 | | |
| 185 | Fire Alarm | 2w 2d | 17/10/2022 | 01/11/2022 | | |
| 186 | Fire Alarm Pre Commissioning Annexe | 1w | 17/10/2022 | 21/10/2022 | | |
| 187 | Fire Alarm Commissioning Annexe | 3d | 18/10/2022 | 20/10/2022 | | |
| 188 | Fire Alarm Soak Period Annexe | 2w | 18/10/2022 | 31/10/2022 | | |
| 189 | Fire Alarm Pre Commissioning Mews | 1w | 18/10/2022 | 24/10/2022 | | |
| 190 | Fire Alarm Commissioning Mews | 3d | 18/10/2022 | 20/10/2022 | | |
| 191 | Fire Alarm Soak Period Mews | 2w | 19/10/2022 | 01/11/2022 | | |
| 192 | Lighting Control | 4w | 24/10/2022 | 18/11/2022 | | |
| 193 | Lighting Control Commissioning Annexe | 2w | 24/10/2022 | 04/11/2022 | | |
| 194 | Emergency Lighting Annexe | 2w | 24/10/2022 | 04/11/2022 | | |
| 195 | Lux levels Annexe | 1w | 24/10/2022 | 28/10/2022 | | |
| 196 | Lighting Control Commissioning Mews | 2w | 07/11/2022 | 18/11/2022 | | |
| 197 | Emergency Lighting Mews | 2w | 07/11/2022 | 18/11/2022 | | |
| 198 | Lux levels Mews | 1w | 07/11/2022 | 11/11/2022 | | |



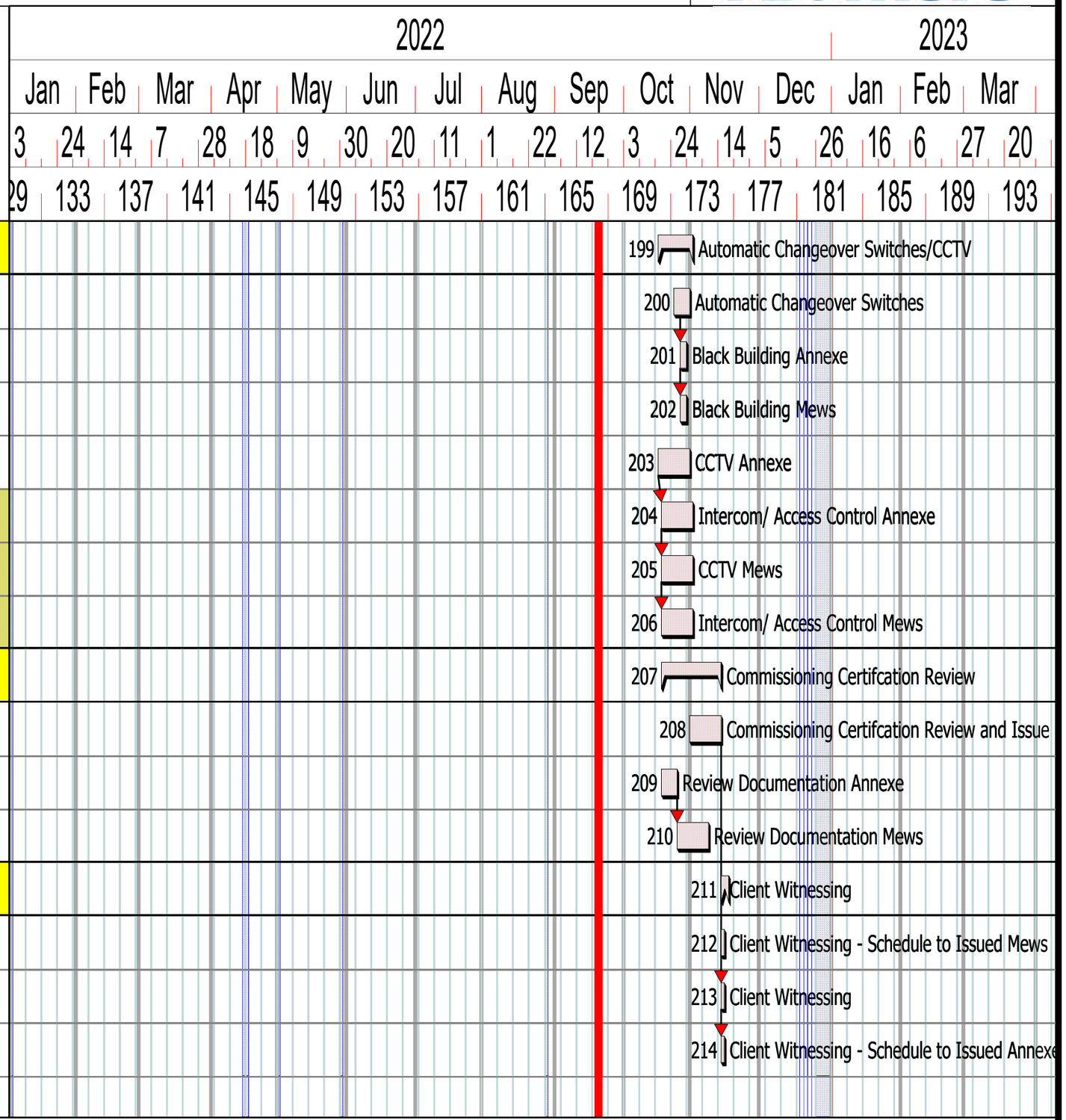
Client: FEC
Issue Date: 30/09/2022
Rev. Date:

# Hornsey Town Hall Target Construction Programme

## Block A,B,Mews and Broadway Commissioning Programme

Ardmore

| Line | Name | Duration | Start | Finish | Percent complete | Slip |
|---|---|---|---|---|---|---|
| 199 | Automatic Changeover Switches/CCTV | 2w 1d | 18/10/2022 | 01/11/2022 | | |
| 200 | Automatic Changeover Switches | 1w | 25/10/2022 | 31/10/2022 | | |
| 201 | Black Building Annexe | 2d | 27/10/2022 | 28/10/2022 | | |
| 202 | Black Building Mews | 2d | 27/10/2022 | 28/10/2022 | | |
| 203 | CCTV Annexe | 2w | 18/10/2022 | 31/10/2022 | | |
| 204 | Intercom/ Access Control Annexe | 2w | 19/10/2022 | 01/11/2022 | | |
| 205 | CCTV Mews | 2w | 19/10/2022 | 01/11/2022 | | |
| 206 | Intercom/ Access Control Mews | 2w | 19/10/2022 | 01/11/2022 | | |
| 207 | Commissioning Certifcation Review | 3w 4d | 19/10/2022 | 14/11/2022 | | |
| 208 | Commissioning Certifcation Review and Issue Block B | 2w | 01/11/2022 | 14/11/2022 | | |
| 209 | Review Documentation Annexe | 1w | 19/10/2022 | 25/10/2022 | | |
| 210 | Review Documentation Mews | 2w | 26/10/2022 | 08/11/2022 | | |
| 211 | Client Witnessing | 1d | 15/11/2022 | 15/11/2022 | | |
| 212 | Client Witnessing - Schedule to Issued Mews | 1d | 15/11/2022 | 15/11/2022 | | |
| 213 | Client Witnessing | 1d | 15/11/2022 | 15/11/2022 | | |
| 214 | Client Witnessing - Schedule to Issued Annexe | 1d | 15/11/2022 | 15/11/2022 | | |




A Project ,Hornsey Town Hall,Trades Contractor

Utility services | Key Dates | Milestone

# HORSEY TOWN HALL COMMISSIONING PROGRAMME

| Name | Duration | Start | Finish | Comment | | Percent complete |
|---|---|---|---|---|---|---|
| commissioning Of Town Hall | 18w 1d | 04/04/2022 | 12/08/2022 | | | |
| **Plant Room** | **6w 3d** | **24/08/2022** | **10/10/2022** | | | **95** |
| **Gas Booster Set Commissioning** | **3d** | **09/05/2022** | **12/10/2022** | | | **100** |
| **Boilers** | **1w** | **06/10/2022** | **14/10/2022** | | | **95** |
| CHP including G99 | **2w** | **10/06/2022** | **23/06/2022** | | | **95** |
| Grundfoss Pumps | **1w** | **16/05/2022** | **20/05/2022** | | | **100** |
| **Water Boost Set** | **1w** | **31/05/2022** | **06/06/2022** | | | **100** |
| **Water Conditioner** | **1w** | **31/05/2022** | **06/06/2022** | | | **100** |
| **Side Stream Filter** | **1w** | **27/05/2022** | **03/06/2022** | | | **100** |
| **Pressurization Unit** | **1w** | **27/05/2022** | **03/06/2022** | | | **100** |
| **BMS Controls** | **3w** | **19/09/2022** | **07/10/2022** | | | **95** |
| **Control Panel commissioning** | **3w** | **19/09/2022** | **11/10/2022** | | | |
| **Pump Controls commissioning** | **2d** | **19/09/2022** | **12/10/2022** | | | |
| **Revisit settings once main water on** | **2w** | **19/09/2022** | **13/10/2022** | | | |
| **Communal** | **2w 1d** | **28/09/2022** | **13/10/2022** | | | |
| LTHW Systems -Heating | **2w 1d** | **25/05/2022** | **14/10/2022** | | | **100** |
| **Commissioning Set commissioning** | **1w** | **10/10/2022** | **14/10/2022** | | | |
| Sample Pipework | **2d** | **04/04/2022** | **05/04/2022** | | | **100** |
| Sample Results | **1w** | **06/05/2022** | **12/05/2022** | | | **100** |
| Domestic Services - BCW | **5w** | **20/06/2022** | **22/07/2022** | | | **100** |
| BCWS System Pressure Settings | **3d** | **20/06/2022** | **22/06/2022** | | | **100** |
| Domestic Water Chlorination | **3d** | **20/06/2022** | **22/06/2022** | | | **100** |
| **Domestic Water Samples** | **1d** | **23/06/2022** | **23/06/2022** | | | **100** |
| **Domestic Water Results** | **2w** | **23/06/2022** | **06/07/2022** | | | **100** |
| **Domestic Outlet Temperature Setting - TMVs North** | **2w** | **20/06/2022** | **01/07/2022** | | | **100** |
| **Domestic Outlet Temperature Setting - TMVs South** | **2w** | **04/07/2022** | **15/07/2022** | | | **100** |
| **Smoke Ventilation Systems & AOVS** | **5w** | **27/06/2022** | **29/07/2022** | | | **100** |
| **Main Core Block A North** | **1w** | **13/06/2022** | **17/06/2022** | | | **100** |
| **Car Park Ventilation** | **3w** | **27/06/2022** | **15/07/2022** | | | **100** |
| **Main Core Block A South** | **2w** | **04/07/2022** | **15/07/2022** | | | **100** |
| **Roof works on AOV fans** | **2w** | **04/07/2022** | **15/07/2022** | | | **100** |
| **Sprinkler System** | **2w** | **27/06/2022** | **08/07/2022** | | | **100** |
| **Test sprinkler system to fire alarm north** | **1w** | **27/06/2022** | **01/07/2022** | | | **100** |
| **Label and lock valves** | **1d** | **04/07/2022** | **04/07/2022** | | | **100** |
| **Test sprinkler system to fire alarm south** | **1w** | **04/07/2022** | **08/07/2022** | | | **100** |
| **Label and lock valves** | **1d** | **08/07/2022** | **08/07/2022** | | | **100** |
| Block A North VRF/AC | **2w** | **13/06/2022** | **24/06/2022** | | | **100** |
| **Block A South VRF/AC** | **2w** | **11/07/2022** | **07/10/2022** | | | |
| **Energy Centre Ventilation** | **2w** | **11/07/2022** | **13/10/2022** | | | |
| **Ground Floor Ventilation Balancing** | **2d** | **11/07/2022** | **14/10/2022** | | | |
| **HIU Commissioning & Tap Temperatures** | **8w 1d** | **15/06/2022** | **10/08/2022** | | | **100** |
| **Lower Ground Floor - 2 units Mechanical** | **2d** | **15/06/2022** | **16/06/2022** | | | **100** |
| **Ground Floor - 8 units Mechanical** | **4d** | **17/06/2022** | **22/06/2022** | | | **100** |
| **1st Floor - 8 units Mechanical** | **4d** | **23/06/2022** | **28/06/2022** | | | **100** |
| **2nd Floor - 8 units Mechanical** | **4d** | **29/06/2022** | **04/07/2022** | | | **100** |
| **3rd Floor - 8 units Mechanical** | **4d** | **05/07/2022** | **08/07/2022** | | | **100** |
| **4th Floor - 8 units Mechanical** | **4d** | **08/07/2022** | **13/07/2022** | | | **100** |
| **Ground Floor - 8 units Mechanical** | **4d** | **14/07/2022** | **19/07/2022** | | | **100** |
| **1st Floor - 8 units Mechanical** | **4d** | **20/07/2022** | **25/07/2022** | | | **100** |
| **2nd Floor - 8 units Mechanical** | **4d** | **26/07/2022** | **29/07/2022** | | | **100** |
| **3rd Floor - 8 units Mechanical** | **4d** | **01/08/2022** | **04/08/2022** | | | **100** |
| **4th Floor - 8 units Mechanical** | **4d** | **05/08/2022** | **10/08/2022** | | | **100** |
| | | | | | | |
| **Fire Alarm** | **8w** | **20/06/2022** | **12/08/2022** | | | **100** |
| **Fire Alarm Pre Commissioning North** | **6w** | **20/06/2022** | **29/07/2022** | | | **100** |
| **Fire Alarm Commissioning North** | **2w** | **04/07/2022** | **15/07/2022** | | | **100** |
| **Fire Alarm Soak Period North** | **2w** | **15/07/2022** | **28/07/2022** | | | **100** |
| **Fire Alarm Pre Commissioning South** | **6w** | **04/07/2022** | **12/08/2022** | | | **100** |
| **Fire Alarm Commissioning South** | **2w** | **18/07/2022** | **29/07/2022** | | | **100** |
| **Fire Alarm Soak Period South** | **2w** | **01/08/2022** | **12/08/2022** | | | **100** |
| **Disabled Refuge Alarm** | **2d** | **11/07/2022** | **12/07/2022** | | | |
| | | | | | | |
| **Lighting** | **4w** | **03/10/2022** | **14/10/2022** | | | |
| **Lighting Control Commissioning North** | **2w** | **03/10/2022** | **14/10/2022** | | | |
| **Emergency Lighting North** | **2w** | **03/10/2022** | **06/10/2022** | | | |
| **Lux levels North** | **1w** | **03/10/2022** | **06/10/2022** | | | |
| **Lighting Control Commissioning South** | **2w** | **23/09/2022** | **06/10/2022** | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Emergency Lighting South | 2w | 23/09/2022 | 06/10/2022 | | | |
| Lux levels South | 1w | 23/09/2022 | 06/10/2022 | | | |
| | | | | | | |
| Automatic Changeover Switches | 2w | 11/07/2022 | 22/07/2022 | | | 100 |
| Automatic Changeover Switches North | 1w | 11/07/2022 | 15/07/2022 | | | 100 |
| Automatic Changeover Switches South | 1w | 18/07/2022 | 22/07/2022 | | | 100 |
| Black Building Test North | 2d | 20/07/2022 | 21/07/2022 | | | 100 |
| Black Building Test South | 2d | 26/07/2022 | 27/07/2022 | | | 100 |
| | | | | | | |
| Pv Commissioning | 5w | 19/09/2022 | 07/10/2022 | | | |
| PV Installation & Commissioning North | 3w | 19/09/2022 | 07/10/2022 | | | |
| PV Installation & Commissioning South | 3w | 19/09/2022 | 07/10/2022 | | | |
| | | | | | | |
| CCTV | 4w | 11/07/2022 | 05/08/2022 | | | |
| CCTV | 2w | 11/07/2022 | 22/07/2022 | | | 100 |
| Intercom/ Access Control North | 2w | 18/07/2022 | 29/07/2022 | | | 100 |
| Intercom/ Access Control south | 2w | 25/07/2022 | 05/08/2022 | | | 100 |
| | | | | | | |
| Cause & Effect | 2w | 16/05/2022 | 27/05/2022 | | | 100 |
| Cause & Effect | 2w | 16/05/2022 | 27/05/2022 | | | 100 |
| Cause & effect review and sign off | 2w | 16/05/2022 | 27/05/2022 | | | 100 |
| | | | | | | |
| Commissioning Certifcation | 4w | 27/09/2022 | 10/10/2022 | | | |
| Commissioning Certifications Review and Issue Block | 2w | 27/09/2022 | 10/10/2022 | | | |
| Documentation North | 2w | 28/09/2022 | 11/10/2022 | | | |
| Documentation South | 2w | 29/09/2022 | 12/10/2022 | | | |
| | | | | | | |
| Witnessing | 2w 1d | 06/10/2022 | 12/10/2022 | | | |
| Client Witnessing | 1w | 06/10/2022 | 12/10/2022 | | | |
| Client Witnessing - Schedule to Issued North | 1w | 06/10/2022 | 12/10/2022 | | | |
| Client Witnessing - Schedule to Issued South | 1w | 07/10/2022 | 13/10/2022 | | | |
| | | | | | | |

| Block B | 9w 4d | 11/07/2022 | 16/09/2022 | | | |
|---|---|---|---|---|---|---|
| Commissioning Of Block B | 9w 4d | 12/12/2022 | 16/12/2022 | | | |
| Plant | 1w | 12/12/2022 | 16/12/2022 | | | |
| Plant Room | 1w | 12/12/2022 | 16/12/2022 | | | |
| Grundfoss Pumps | 1w | 12/12/2022 | 16/12/2022 | | | |
| Water Conditioner | 1w | 12/12/2022 | 16/12/2022 | | | |
| Side Stream Filter | 1w | 12/12/2022 | 16/12/2022 | | | |
| Pressurization Unit | 1w | 12/12/2022 | 16/12/2022 | | | |
| BMS | 3w | 19/12/2022 | 13/01/2023 | | | |
| BMS Controls | 3w | 19/12/2022 | 13/01/2023 | | | |
| Control Panel commissioning | 3w | 19/12/2022 | 13/01/2023 | | | |
| Pump Controls commissioning | 2w | 20/12/2022 | 10/01/2023 | | | |
| LTHW Systems | 3w | 15/12/2022 | 10/01/2023 | | | |
| Communal | 3w | 15/12/2022 | 10/01/2023 | | | |
| LTHW Systems -Heating | 3w | 15/12/2022 | 10/01/2023 | | | |
| Commissioning Set commissioning | 1w | 15/12/2022 | 10/01/2023 | | | |
| Sample Pipework | 1d | 21/12/2022 | 22/12/2022 | | | |
| Sample Results | 1w | 21/12/2022 | 03/01/2022 | | | |
| Domestic Services - BCW | 3w 4d | 02/01/2022 | 20/01/2023 | | | |
| Domestic Services - BCW | 3w | 02/01/2022 | 20/01/2023 | | | |
| BCWS System Pressure Settings | 3d | 02/01/2022 | 04/01/2023 | | | |
| Domestic Water Chlorination | 1w | 09/01/2022 | 13/01/2023 | | | |
| Domestic Water Samples | 1d | 13/01/2022 | 13/01/2023 | | | |
| Domestic Water Results | 2w | 13/01/2022 | 26/01/2023 | | | |
| Domestic Outlet Temperature Setting | 1w 3d | 09/01/2023 | 18/01/2023 | | | |
| AOVS | 2w | 24/01/2023 | 06/02/2023 | | | |
| Smoke Ventilation Systems & AOVS | 2w | 24/01/2023 | 06/02/2023 | | | |
| Block B | 2w | 24/01/2023 | 06/02/2023 | | | |
| Sprinkler System | 2w | 05/01/2023 | 18/01/2023 | | | |
| Sprinkler System | 2w | 05/01/2023 | 18/01/2023 | | | |
| Test sprinkler system to fire alarm Block B | 1w | 05/01/2023 | 11/01/2023 | | | |
| Label and lock valves | 1d | 12/01/2023 | 12/01/2023 | | | |
| HIU | 4d | 09/02/2023 | 14/02/2023 | | | |
| HIU Commissioning & Tap Temperatures | 4d | 09/02/2023 | 14/02/2023 | | | |
| Block B LGF Upwards | 1d | 09/02/2023 | 09/02/2023 | | | |
| Fire Alarm | 2w 3d | 03/01/2023 | 09/01/2023 | | | |
| Fire Alarm Pre Commissioning | 1w | 03/01/2023 | 09/01/2023 | | | |
| Fire Alarm Commissioning | 3d | 03/01/2023 | 09/01/2023 | | | |
| Fire Alarm Soak Period | 2w | 06/01/2023 | 19/01/2023 | | | |
| Lighting | 2w | 02/01/2023 | 13/01/2023 | | | |
| Lighting Control Commissioning | 2w | 02/01/2023 | 13/01/2023 | | | |
| Emergency Lighting | 2w | 02/01/2023 | 13/01/2023 | | | |
| Lux levels | 1w | 02/01/2023 | 06/01/2023 | | | |
| Automatic Changeover/CCTV | 2w 3d | 14/12/2022 | 20/12/2022 | | | |
| Automatic Changeover Switches | 1w | 14/12/2022 | 20/12/2022 | | | |
| Black Building Test | 2d | 14/12/2022 | 15/12/2022 | | | |
| CCTV | 2w | 20/01/2023 | 02/02/2023 | | | |
| Intercom/ Access Control | 2w | 20/01/2023 | 02/02/2023 | | | |
| Commissioning Certifications | 2w | 15/02/2023 | 28/02/2023 | | | |
| Commissioning Certifications Review and Issue Block B | 2w | 15/02/2023 | 28/02/2023 | | | |
| Client Witnessing | 1w | 15/02/2023 | 21/02/2023 | | | |
| Client Witnessing - Schedule to Issued | 1w | 15/02/2023 | 21/02/2023 | | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| BA & MEWS | 8w 3d | 20/06/2022 | 12/08/2022 | | | |
| Power On Date | 2w | 20/06/2022 | 15/11/2022 | | | 100 |
| Apartment Testing | 5w | 12/10/2022 | 15/11/2022 | | | |
| Communal Testing | 3w | 26/10/2022 | 15/11/2022 | | | |
| Plant Room | 6w | 05/10/2022 | 15/11/2022 | | | |
| Grundfoss Pumps | 1w | 28/10/2022 | 03/11/2022 | | | |
| Water Conditioner | 1w | 28/10/2022 | 03/11/2022 | | | |
| Side Stream Filter | 1w | 28/10/2022 | 03/11/2022 | | | |
| Pressurization Unit | 1w | 28/10/2022 | 03/11/2022 | | | |
| BMS | 3w | 18/10/2022 | 14/11/2022 | | | |
| BMS Controls | 3w | 18/10/2022 | 01/11/2022 | | | |
| Control Panel commissioning | 3w | 01/11/2022 | 07/11/2022 | | | |
| Pump Controls commissioning | 2d | 07/11/2022 | 07/11/2022 | | | |
| Communal | 4w | 20/06/2022 | 15/07/2022 | | | |
| Communal | 2w 1d | 20/06/2022 | 04/07/2022 | | | |
| LTHW Systems -Heating | 2w 1d | 20/06/2022 | 04/07/2022 | | | |
| Commissioning Set commissioning | 1w | 0q/07/2022 | 08/07/2022 | | | |
| Sample Pipework | 1d | 07/07/2022 | 07/07/2022 | | | |
| Sample Results | 1w | 08/07/2022 | 14/07/2022 | | | |
| Services - BCW | 3w | 27/10/2022 | 16/11/2022 | | | |
| Domestic Services - BCW | 3w | 27/10/2022 | 16/11/2022 | | | |
| BCWS System Pressure Settings | 3d | 27/10/2022 | 31/10/2022 | | | |
| Domestic Water Chlorination | 1w | 01/11/2022 | 07/11/2022 | | | |
| Domestic Water Samples | 1d | 02/11/2022 | 02/11/2022 | | | |
| Domestic Water Results | 2w | 02/22/2022 | 15/11/2022 | | | |
| Domestic Outlet Temperature Setting - TMVs Annexe | 3d | 03/11/2022 | 07/11/2022 | | | |
| Domestic Outlet Temperature Setting - TMVs Mews | 3d | 08/11/2022 | 10/11/2022 | | | |
| Ventilation | 3w | 26/10/2022 | 15/11/2022 | | | |
| Smoke Ventilation Systems & AOVS | 2w | 26/10/2022 | 08/11/2022 | | | |
| Annexe | 1w | 26/10/2022 | 01/11/2022 | | | |
| Mews | 1w | 09/11/2022 | 15/11/2022 | | | |
| Sprinkler System | 2w | 01/11/2022 | 14/11/2022 | | | |
| Sprinkler System | 2w | 01/11/2022 | 07/11/2022 | | | |
| Test sprinkler system to fire alarm Annexe | 1w | 01/11/2022 | 07/11/2022 | | | |
| Label and lock valves | 1d | 07/11/2022 | 14/11/2022 | | | |
| Test sprinkler system to fire alarm Mews | 1w | 14/11/2022 | 14/11/2022 | | | |
| Label and lock valves | 1d | 09/11/2022 | 14/11/2022 | | | |
| HIU Commissioning | 2w | 01/11/2022 | 14/11/2022 | | | |
| HIU Commissioning & Tap Temperatures | 2w | 01/11/2022 | 07/11/2022 | | | |
| Annexe | 1w | 01/11/2022 | 14/11/2022 | | | |
| Mews | 1w | 08/11/2022 | 14/11/2022 | | | |
| Fire Alarm | 5w 2d | 17/10/2022 | 01/11/2022 | | | |
| Fire Alarm Pre Commissioning Annexe | 1w | 17/10/2022 | 21/10/2022 | | | |
| Fire Alarm Commissioning Annexe | 3d | 18/10/2022 | 20/10/2022 | | | |
| Fire Alarm Soak Period Annexe | 2w | 18/10/2022 | 31/10/2022 | | | |
| Fire Alarm Pre Commissioning Mews | 1w | 18/10/2022 | 24/10/2022 | | | |
| Fire Alarm Commissioning Mews | 3d | 18/10/2022 | 20/10/2022 | | | |
| Fire Alarm Soak Period Mews | 2w | 19/10/2022 | 01/11/2022 | | | |
| Lighting Control | 4w | 24/10/2022 | 04/11/2022 | | | |
| Lighting Control Commissioning Annexe | 2w | 24/10/2022 | 04/11/2022 | | | |
| Emergency Lighting Annexe | 2w | 24/10/2022 | 04/11/2022 | | | |
| Lux levels Annexe | 1w | 24/10/2022 | 28/10/2022 | | | |
| Lighting Control Commissioning Mews | 2w | 07/11/2022 | 18/11/2022 | | | |
| Emergency Lighting Mews | 2w | 07/11/2022 | 18/11/2022 | | | |
| Lux levels Mews | 1w | 07/11/2022 | 11/11/2022 | | | |
| Automatic Changeover Switches/CCTV | 4w | 25/10/2022 | 01/11/2022 | | | |
| Automatic Changeover Switches | 1w | 27/10/2022 | 31/10/2022 | | | |
| Black Building Annexe | 2d | 27/10/2022 | 28/10/2022 | | | |
| Black Building Mews | 2d | 18/10/2022 | 28/10/2022 | | | |
| CCTV Annexe | 2w | 19/10/2022 | 01/11/2022 | | | |
| Intercom/ Access Control Annexe | 2w | 19/10/2022 | 01/11/2022 | | | |
| CCTV Mews | 2w | 19/10/2022 | 01/11/2022 | | | |
| Intercom/ Access Control Mews | 2w | 19/10/2022 | 01/11/2022 | | | |
| Commissioning Certifications Review | 4w | 01/11/2022 | 14/11/2022 | | | |
| Commissioning Certifications Review and Issue Block B | 2w | 01/11/2022 | 14/11/2022 | | | |
| Review Documentation Annexe | 1w | 19/10/2022 | 25/10/2022 | | | |
| Review Documentation Mews | 2w | 16/10/2022 | 08/11/2022 | | | |
| Client Witnessing | 1w 3d | 15/11/2022 | 15/11/2022 | | | |
| Client Witnessing - Schedule to Issued Mews | 1d | 15/11/2022 | 15/11/2022 | | | |
| Client Witnessing | 1d | 15/11/2022 | 15/11/2022 | | | |
| Client Witnessing - Schedule to Issued Annexe | 1d | 15/11/2022 | 15/11/2022 | | | |

**Ardmore Construction Limited**

**Ardmore Construction Limited**
6 Wharf Studios
28 Wharf Road
London N1 7GR

Katy Venables
Whitecode Consulting
26-27 The Hill
Northfleet
Gravesend
Kent
DA11 2EU

Date 13.02.2023

Dear Katy

Re: Hornsey Town Hall -- Commissioning

Commissioning and testing strategy

As Principal Contractor on the project, we can confirm all installed systems, hot water, heating, ventilation, comfort cooling and LZC technologies, will be commissioned in accordance with appropriate current Building Regulation, BSRIA and CIBSE guidelines. Please see commissioning schedule attached.

Commissioning, along with re-commissioning where necessary, has been accounted for within our budget and main programme of works, to ensure that there is sufficient time to complete all commissioning and testing activities prior to handover. Martin Smith has been appointed with the responsibility to monitor the commissioning process on behalf of the client.

A specialist commissioning manager will be appointed during the design stage with responsibility for conducting and managing commissioning activities.

Testing building fabric

We also confirm that the integrity of the building fabric will be tested post construction via air leakage testing of all dwellings. Testing will be carried out by professionals with membership of ATTMA.

Should you have any queries, please do not hesitate to contact the undersigned.

Yours sincerely

Martin Smith

System Manager

Ardmore

**Ardmore Construction Limited**
6 Wharf Studios
28 Wharf Road, London
N1 7GR

**T:** 0208 344 0300
**E:** info@ardmoregroup.co.uk

**Katy Venables**

Whitecode
26-27 The Hill Northfleet,
Northfleet,
Gravesend.
DA11 9EU

10th September 2024

**RE: Hornsey Town Hall – Cover Letter for BREEAM Management 04 Commissioning**

Dear Katy,

This letter is to confirm that Ardmore Construction Limited appointed Energy Control Solutions Limited as the Specialist Commissioning Manager at Hornsey Town Hall to achieve the BREEAM Management 04 credit.

Energy Control Solutions were appointed in February 2023 under a Sub-Contractor Order for use with specialist sub-contractors, as appended to this letter. Particular reference should be made to page 11 which states the scope of works and that the sub-contractor shall allow for control system commissioning and documentation.

The sub-contractor was appointed to undertake design review and provide advice on the suitability for ease of commissioning, for example introducing additional valves to allow phased handovers. They worked closely with the design consultant Whitecode and the site MEP Managers to achieve this.

They provided their input to the construction programme and both design stage and installation to ensure sufficient time periods were allowed to complete the commissioning. As well as managing the commissioning, performance testing and handover stages alongside Ardmore's MEP Managers and design consultants.

Energy Control Solutions were employed to design, supply and install the sitewide BMS system, as a Specialist Commissioning Manager. Which included the commissioning of:

- Air and water systems when all control devices were installed, wired and functioning
- Test results for flow ratings, as well as physical measurements of room temperatures, off-coil temperatures and other key parameters.
- The BMS installation will be running in auto with satisfactory internal conditions prior to handover, as demonstrated by the commissioning records.
- The BMS schematics and graphics will be fully installed with a functioning user interface prior to handover
- Energy Control Solutions alongside Ardmore will fully train the facilities team to operate the system

All the above is included within the Energy Control Solutions order and will be demonstrated through commissioning results and training schedules at handover.

Yours Sincerely,

Bethan Street

Head of Design

Appendix:

- Sub-Contractor Order SC000004954

ARDMORE CONSTRUCTION LIMITED

SUB-CONTRACTOR or CONSULTANT

PURCHASE CONTROL FORM

| | | | |
|---|---|---|---|
| Project Title : | Hornsey Town Hall | Date: | 9-Nov-22 |
| Package : | Testing and Comissioning Works | Contract No: | 200748 |

## Numbered Document 1

Scope of Sub-Contract Works

**Project:** Hornsey Town Hall

**Package:** Testing and Commissioning works Sitewide.

SCOPE OF SUB-CONTRACT WORKS REV 00 Dated 26/10/2022

**General Requirements**

1. Ardmore Construction Limited (ACL) Standard Form of Sub-Contract Conditions GSC (Edition 7, January 2017) un-amended (unless agreed otherwise), will apply to any order issued resulting from this Invitation to Tender; maintained

2. The Sub-Contractor agrees to withdraw all their terms and conditions of tender and ACL conditions of contract will prevail;

3. The Sub-Contractor is to ensure the tender return is a fully compliant, unqualified, all risk, fixed price, lump sum bid for the complete duration of the works on site;

4. The Sub-Contractor shall submit with his tender a detailed programme highlighting sequence of works (including rubbish removal), labour resources, material procurement, scaffolding requirements, drawing production timescales incorporating approval periods, testing and commission periods, etc.;

5. The Sub-Contractor, as part of his tender submission, shall provide a labour and plant histogram;

6. The Sub-Contractor is to provide ACL with a delivery and weight schedule of all items required to be lifted by crane, hoist or forklift with the tender return;

7. Alternatively, the Sub-Contractor is to ensure any waste materials arising from your works, is to be properly segregated and disposed of into the appropriate ACL skip (i.e. inert, timber, metal, hazardous, etc.). Any costs incurred by ACL as a result of cross contamination of waste will be contra charged to your account accordingly. The Sub-Contractor shall be responsible for removal of all waste from the workface to the designated skip area, including all vertical and horizontal movement of waste materials;

8. The Sub-Contractor is to ensure that all equipment / systems supplied are capable of processing with accuracy and without interruption;

9. The Sub-Contractor shall resource the project adequately to ensure that they are not in delay. This must include for all holiday periods where Ardmore deemed the Sub-Contract works to be in delay. Where the Sub-Contractor is aware of a reduction in their labour force, the Sub-Contractor must notify Ardmore a minimum of 4 weeks in advance of any such reductions in the labour force. The Sub-Contractor must advise on measure to mitigate any resultant delays associated with reductions in the labour force to ensure the programme is maintained. These mitigating measures cannot cause delays, additional cost or disruption to other Sub-Contractors.

10. The Sub-Contractor will not do, or permit or suffer to be done anything which might be or become a danger, nuisance or inconvenience to any adjoining owners or to members of the

public generally, or cause damage to any adjoining property and the Sub-Contractor shall indemnify ACL against all actions, costs, claims, demands and liability whatsoever in relation to any failure by the Sub-Contractor to comply with its obligations under this clause and the constraints of the development planning conditions;

11. The Sub-Contractors management shall attend daily supervisor meetings at pre-agreed times. Failure to attend these meetings may result in the supervisor being removed from site and works being stopped;

12. The Sub-Contractor shall maintain an adequate site organisation under the full-time control of an experienced supervisor with complete responsibility for the contract including programme, health and safety issues, installation, quality control and use of plant. Works will not be permitted on site without a supervisor been present, the Sub-Contractor shall be liable for any delays and associated cost due to this failure to provide a supervisor. If the Sub-Contractor plans to change or replace the supervisor or manager, the Sub-Contract must formally write to ACL, a minimum of two weeks in advance, advising ACL of the situation and confirm the name, qualification and experience of the replacement supervisor or manager. In the event of a supervisor or manager not been able to attend site at short notice due to illness or circumstances outside the Sub-Contractors control then the Sub-Contractor shall immediately notify ACL and arrange for an immediate replacement manager. The company must state the replacement manager is suitably qualified.

13. The Sub-Contractor at all times will provide suitably experiences tradesmen to carry out the works in a timely, professional manner and in accordance with the programme and sequence of works. The Sub-Contractor will issue CVs, qualifications and appropriate tickets for each supervisor prior to commencement of any works on site. Agency staff will not be permitted unless prior agreement in writing from Ardmore;

14. The Sub-Contractor is to familiarise himself with the project procedures for issue / comment of drawings using the information sharing portal 4projects (or equivalent system as required by the Contractor). The Sub-Contractor shall ensure sufficient IT facilities (tablets or laptops with full internet access, printers, scanners and other office equipment as required) are provided to allow their staff access to 4projects and other systems required by the project.

15. The Sub-Contractor is to note that prior to Practical Completion, the Sub-Contractor must allow for comprehensive training in all aspects of the cleaning / maintenance and / or operational requirements in respect of the works, for the building manager, facilities manager, agent and / or operatives appointed by the employer, the Sub-Contractor is to provide any additional training as required by the Employer.

16. The Sub-Contractor shall provide a comprehensive and professionally presented Operation and Maintenance Manual and all necessary information for the Health and Safety File within 14 days of request from Ardmore. The Sub-Contractor shall upload these documents to an Ardmore specified portal for review by the Main Contractor. Failure to issue these documents to an acceptable standard as required under the Employers Requirements within the time frame will result in deductions at a rate of £1,000 for every day beyond the 14-day deadline.

17. The Sub-Contractor is to note any Contra-Charges that are levied against the Sub-Contractor shall have an administration fee of 10%;

18. The Sub-Contractor is to note there is strictly no parking on site unless agreed in writing with the Main Contractor;

19. The Sub-Contractor is to note ACL will not accept any costs incurred by the Sub-Contractor for ACL's failure to provide a forklift & driver or any other equipment unless clearly specified and agreed with the Sub-Contractor in the Part 2 meeting;

20. The Sub-Contractor is to note crane and hoisting facilities, along with power supplies will from time to time be out of use, both planned & unplanned, and as such the Sub-Contractor will indemnify ACL of any costs resulting from this or any special measures required to meet the ACL programme of works;

21. The Sub-Contractor is to note his material supplier shall be given access to the site by such temporary routes as ACL shall provide, which may be altered from time to time as dictated by the progress of work. All goods and materials shall be delivered to an unloading point as directed by ACL. In any case ACL will take no responsibility for loss or damage or for the accuracy of the goods or materials delivered or averred to be delivered to site. Ardmore will not allow access to site for any delivery that has not been booked in through datascope or similar online deliveries system. Deliveries will also not be permitted should the Sub-Contractors appointed site supervisor and adequately resourced logistics team not be on site to take delivery.

22. The Sub-Contractor will use the Datascope and the Aurora system (or other systems as required by Ardmore) to gain entry to site and exit from site.

23. The Sub-Contractor will be assigned a material storage area if deemed to be required by Ardmore. Ardmore will erect temporary storage facilities; however it is the responsibility of the Sub-Contractor to maintain a clean and safe area. On completion of the works all materials are to be removed from the storage area, the area is to be cleaned, photographed and handed back to Ardmore. The cost of any additional cleaning by Ardmore after the area has been handed back will be deducted from the Sub-Contractors account.

24. The Sub-Contractor is to note that on-site office accommodation will provide for all Sub-Contractors (at ACLs discretion), with space allocation for a maximum of two desk spaces for the Sub-Contractors staff. The Sub-Contractor will be responsible for ensuring that all allocated offices spaces are kept clean. Clean-up notices will be issued to Sub-Contractors who fail in this regard and reasonable costs deducted.

25. Smoking is only permitted within designated areas on site and during designated times. Smoking outside of the designated areas will result in automatic dismissal of the operative. The Main Contractor expects that the Sub-Contractors supervisor and manager will ensure their staff adhere to the designated smoking times.

26. The Sub-Contractor is to note that site working hours are 08.00-18.00 Monday to Friday and that the sub-contractor's full team is expected to remain on site for the full duration of the working day. Weekend working may also be available on request from ACL management. Any deviation from site working hours must be approved in writing by ACL senior management. If at any time the Sub-Contractor wishes to work reduced or varied hours they may do so, but only in writing to Ardmore management with full justification and clearly stating the period for which the request is applicable for. Ardmore reserve the right to refuse any such requests.

27. The Sub-Contractor shall allow for access upto a working platform of 3m high upto 3m high, any access above 3m will be provided by Ardmore.

**Scope of Works**

1. The Sub-Contractor shall allow for the water treatment for the mechanical services sitewide.

2. The Sub-Contractor shall allow for chemical cleaning for the following:

- Block B LTHW from PHEX
- Hotel LTHW from PHEX
- Town Hall LTHW from PHEX

3. The Sub-Contractor shall allow for validation & survey of previously completed systems.

4. The Sub-Contractor shall allow for BSRIA sampling which shall include microbiological and chemical sampling.

5. The Sub-Contractor shall allow for domestic services chlorination BS8558 to Block A, Block B, Hotel, Town Hall, and Mews. This shall also include potable and legionella samples.

6. The Sub-Contractor shall allow for validation samples to Block A which shall include microbiological and chemical samples.

7. The Sub-Contractor shall allow for trending samples of Block A LTHW and shall include full chemical & microbiological samples from the main pump and terminal units.

8. The Sub-Contractor shall allow for trending samples of the Mews LTHW and shall include full chemical & microbiological samples from the main pump and terminal units.

9. The Sub-Contractor shall allow for a discharge licence.

10. The Sub-Contractor shall allow for commissioning works to the following areas:

- Block B, Hotel and Town Hall LTHW.
- Hotel & Town Hall Ventilation
- Hotel & Town Hall HWS return and shower TMV's.

11. The Sub-Contractor shall allow to check belt tensions and alignments where required.

12. The Sub-Contractor shall allow to check filters where required.

13. The Sub-Contractor shall allow for the removal of transit bolts where required.

14. The Sub-Contractor shall allow to check the correct rotation where required.

15. The Sub-Contractor shall allow for drilling and plugging of test holes for commissioning purposes where required.

16. The Sub-Contractor shall ensure that all commissioning is carried out in accordance with the CIBSE and BSRIA codes.

Other Items:

a) The Sub Contractor is deemed to have visited site to review access, site levels, location of buildings and all other site conditions and is deemed to have made due allowance for each of these within the agreed Sub-Contract sum.

b) The Sub-Contractor shall be entirely responsible for all distribution including movement from point of delivery to storage space or work face.

c) All works to be in accordance with the specifications listed in Numbered Document 2.

d) Compliance with the named products and suppliers is mandatory. If the Sub-Contractor intends to change or deviate from any of these products then they will be required to submit a Sub-Contractors Proposal, which shall be issued through the Contractors design team. A minimum 4 weeks will be required for the approval process. A formal instruction will be raised by the Contractors commercial team if the Sub-Contractors proposal has been accepted. The Sub-Contractor shall be liable for any associated costs or impact to programme dates.

e) The Sub-Contractor shall maintain a clean working environment at all times. Cleaning of all work areas must be carried out daily. Failure to clean areas on a daily basis will result in appropriate penalties;

f) The Sub-Contractor is to provide all access up to a working platform of 5m;

g) The Sub-Contractor shall make due allowance for attendance on other trades including but not limited to fire alarm detection installation, changeover from temporary to permanent power supplies and final handover demonstrations.

h) The sub-contractors' senior management / directors shall be available and to attend site, if required, at short notice. In the case of emergencies, dedicated point of contact numbers shall be made available for working and non-working hours. These emergency contact details shall be provided prior to commencement on site;

i) The Sub-Contractor will be required to provide a full list of material suppliers, upon confirmation of material orders including contact names, telephone numbers and addressed. The Sub-Contractor consents to Ardmore communicating directly with any of the listed suppliers.

j) All pre-commissioning checks, commissioning and performance testing shall be carried out in accordance with current regulations and codes.

k) The Sub-Contractor shall demonstrate to the satisfaction of Ardmore that the works are capable of the performance and method of operation specified. This shall include, but shall not be limited to, inspecting and testing all equipment and materials.

l) The Sub-Contractor shall, upon request, provide detailed progress reports, including photographs and anticipated completion dates for all assembled and manufactured materials.

m) The Sub-Contractor shall, upon request, provide delivery tracking information for all materials in transit, confirming the departure date, shipping and estimated arrival dates.

n) Supply of all sufficient plant, tools, all consumables as necessary to complete the works without delay. This shall be inclusive of but not limited to task and temporary site lighting, podium steps, hop ups and toolboxes;

o) The Sub-Contract shall ensure that all tools, equipment, lighting and access equipment are fit for use and inspected in accordance with the Ardmore health and safety policy and current health and safety legislation and standards. All non-compliant tools, equipment, lighting and access equipment found by Ardmore during inspections will be removed or tagged and an administration fee of £100 will be charged to the Sub-Contractor for each and every breach.

p) The Sub-Contractor shall be responsible for fire, theft, loss and/or vandalism of any of the Sub-Contractor's tools, equipment, materials, supplies and/or work in progress.

q) The subcontractor shall allow for return visits as necessary to complete the works;

r) The subcontractor is to coordinate all works and interfaces with other subcontractors. These works are to be sequenced in such a way that they do not affect or cause delays to the main construction programme. In the event that disputes between Sub-Contractors in relation to coordination cannot be resolved, the Ardmore project manager shall make a decision and such decision shall be final and binding;

s) Confirmation that the price is lump sum, all risk, non remeasureable and only client instructed variations will apply;

t) The subcontract sum is deemed to be fixed price and fully inclusive of inflation, currency changes and the like for the duration of the main contract;

u) The subcontractor has included for all labour required for the removal and management of all waste associated with the subcontract works for the duration of the project;

v) If ACL are required to clear an area on the Subcontractors behalf then this will be charged at a rate of £35.00 per hour per operative in addition to a fixed administration of £250 per clean up notice;

w) Ardmore will monitor the quality of Sub-Contract PPE on site and if deemed to be unsuitable by Ardmore management in accordance with the ACL health and safety policy and the standards of the Considerate Constructors Scheme, the operative will be requested to immediately change into PPE of suitable quality. Failure to comply will result in ACL issuing suitable PPE to the Sub-Contractors operative and the following charges shall apply and will be deducted from the subcontractors account:

a. Hard Hats - £50.00 each

b. Hi visibility vests - £25.00 each
c. Goggles - £25.00 each
d. Gloves - £25.00 each

x) If the subcontractor wishes to work outside normal hours it will only be permitted by exception and in written agreement. Any Ardmore associated cost incurred will be deducted from the subcontractors cost.

y) All operatives must have specific CSCS cards for the specific role that they are undertaking. No 'basic skill cards' will be accepted. All supervisors to have SSSTS or SMSTS training and IPAF training and relevant qualifications;

z) Prior to attending ACL inductions, the Sub-Contractor shall undertake internal inductions to confirm the operatives qualification are suitable for works to be undertaken, has the appropriate PPE, has reviewed understood and signed the appropriate risk assessments and method statements, understands the importance of safe starts and agrees to participate in daily safe start meetings.

aa) On completion of the Sub-Contractor induction, the Sub-Contractor's supervisor shall issue Ardmore with all necessary documentation to allow Ardmore to efficiently process the individual and induct to site. The Sub-Contractor shall book all Ardmore inductions through Datascope or equivalent system.

bb) The Sub-Contractor must notify ACL should they intend to further sub- contract part or all of the works. This must be notified in writing to ACL senior management. A period of 4 weeks should be allowed for ACL to review/ approve or reject;

cc) The Sub-Contractor shall provide four weeks' notice on all access requirements;

dd) The Sub-Contractor shall allow for attendance at design team meetings as and when required until such time the design is approved. If the Sub-Contractor fails to attend design team meetings or has a non-proactive approach to progressing the design then the Contractor will look to recoup abortive costs.

ee) The Sub-Contractor shall implement a quality control procedure which shall include periodic checking and signing off of the works through all stages work, all aspects of the works shall be documented, QA shall be available for inspection at all times, payment shall only be made when works are accepted by Ardmore;

ff) Detailed, trade and project specific QA to be submitted in draft format 4 weeks prior to commencement for review. QA to reflect both design and manufacturer requirements.

gg) Sub-Contractors are to complete all QAs using the FieldView tablet-based system (or equivalent system as required by the Contractor) which is in place to ensure quality of works are correct and meets with the Contractor's Requirements (ACL will confirm the procedure prior to site commencement), the Sub-Contractor provide fully compliant and verified QA a minimum of 5 days prior to the submission date for each interim application for payment to allow ACL time to review prior to payments being processed.

hh) Sub-Contractor is to supply managers / supervisors with IT (i.e. tablet) in order to use the Fieldview and 4Projects system or equivalent systems as required by the Contractor.

ii) The Sub-Contractor shall ensure that all QA is provided with the following documentation appended: -

a. current drawings,
b. product specifications and data sheets,
c. as build drawings or sketches,
d. progress photographs
e. any other supportive documentation required to confirm the installation is in accordance with the Contractor's Requirement.

jj) Non-Conformance Reports (NCRs) and clean up notices are to be responded to immediately upon receipt and closed out within 48 hours. Failure to respond will result in a minimum administration fee of £250 plus all additional cost incurred ACL in rectifying the NCR or clean up notice.

kk) QA must be done as soon as work is complete and signed off by relevant ACL managers. QA should be completed on a regular basis, i.e. daily, every other day etc. Inadequate QA or QA not in accordance with the ACL QA procedures will be rejected and an administration fee of £250 will be enforced.

ll) The Sub-Contractor shall allow for the protection of the works until Practical Completion, including return visits as necessary to maintain protection and to remove when required. The Sub-Contractor shall allow for a full clean down, making good and to ensure full working order upon removal of any protection for final handover.

mm) The Sub-Contractor shall allow for making good any damage caused to other Sub-Contractors works.

nn) The Sub-Contractor shall allow for removal of all temporary works and protection left by others in order to carry out the Sub-Contract works.

oo) The Sub-Contractor shall be aware that in placing orders with their suppliers, the Sub-Contractor agrees to an 'All Risk' policy whereby the Sub-Contractor agrees not to levy any costs or programme delay to Ardmore in relation to the following items:- damaged deliveries, manufacturing delays, supply chain delays, out of sequence works, additional storage costs and Return visits

pp) The Sub-Contractor's senior management and operations site team shall attend a construction specific meeting two weeks prior to commencing on site.

qq) The Sub-Contractor shall carry out daily safe start meetings with all their staff in attendance and issue copies of these signed and dated forms to ACL health and safety team before 9am daily. ACL reserves the right to request the complete safe start forms in electronic format using the Fieldview system or equivalent system to be confirm by ACL. ACL also reserves the right to assess and monitor the quality of such safe start meetings and to stop all works where ACL deem the safe start or toolbox talks are not been carried out appropriately, diligently and where operatives are having difficulty understanding the content and in particular the risks.

rr) The Sub-Contractor shall present the Risk Assessments and Method Statements to all the Sub-Contractors staff and shall ensure that all staff fully understand and comply with such work practices prior to works commencing on site. ACL reserve the right to stop all works (at the Sub-Contractors cost) where ACL deem the works are not been carried out in accordance with the approved Risk

Assessments and Method Statements or where the Sub-Contractors staff clearly do not understand these work practices.

ss) The Sub-Contractor shall allow for progressive and final cleaning of all works and protection to prevent damage until practical completion and / or final handover of the works, whichever is the later.

tt) Provision of all necessary samples, including sample panels of the as required to use a benchmark.

uu) The Sub-Contractor shall provide training in the operation and maintenance of relevant system(s). This training will need to be provided per sectional / phased completion hand over. The Sub-Contractor shall provide a scope for this training at the outset. The Sub-Contractor will be responsible for producing training record sheets with signatures of those that attended and shall provide a training manual specific to that system and stage of handover.

vv) The subcontractor is recognised as a specialist and is expected to contribute their knowledge and input on programme, buildability, design, safety, cost control and value engineering/creation to make the process efficient and effective.

ww) Free issued materials by Ardmore will be provided in a sequence and quantity as determined by Ardmore, the cost of replacing damaged or misplaced free issue materials will be deducted from the Sub-Contractors account.

xx) The subcontractor is to complete the works in accordance with this scope of works document, specifications and drawings as listed in the numbered document which will form part of any subcontract, and having regard to the requirements of the other numbered documents listed;

yy) All managers and supervisors must have a minimum of 5 years relevant management experience in the specific trade and in health and safety. The Sub-Contractor will provide confirmation that the manager or supervisor are suitably qualified to manage all works and resources on site;

zz) The Sub-Contractor shall allow for periodic health and safety inspections to ensure all health and safety practices and paperwork are up to the appropriate standard;

aaa) Operation of a permit to work system will be required to control access to confined spaces, working at height or areas where Ardmore deem a permit is required;

bbb) The subcontractor is responsible for minimising waste on site. All packing waste, pallets, crates and stillages shall be removed from site by the Sub-Contractor within in 7 days of these becoming redundant.

ccc) Waste produced from free issue materials will be monitored on a weekly basis, if waste production is deemed to be unreasonably excessive inline with acceptable industry standards due to poor workmanship and poor management of materials then the Main Contractor will look to recover reasonable cost incurred in purchasing additional materials and the additional cost of disposal of materials off site.

ddd) The subcontractor will endeavour to prevent deliveries from being disrupted/cancelled during the contract period;

# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109188

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 35** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 100.46 | **Envelope ($m^2$)** 300.92 | **Volume ($m^3$)** 251.15 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5N-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 84.790 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 987.4 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.62 | |
| **Coefficient of Determination ($r^2$):** | 0.999 | |

**Air Permeability:** 3.28 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

EP26-3P5F-Y27X

BCTA

ATTMA is part of the Building Compliance Testers Association (BCTA). The BCTA is a trade association for companies that conduct on-site testing and operate within controlled, audited schemes.

Enquiries should be made to: BCTA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group

# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109189

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 36** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 72.39 | **Envelope ($m^2$)** 230.78 | **Volume ($m^3$)** 180.975 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5O-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 29.510 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 849.1 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.86 | |
| **Coefficient of Determination ($r^2$):** | 0.995 | |

**Air Permeability:** 3.68 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

FE97-2V29-AX6N

BCTA

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Enquiries should be made to: BCTA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group

# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109190

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 37** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 66.44 | **Envelope ($m^2$)** 214.38 | **Volume ($m^3$)** 166.1 / **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5P-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 29.510 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 849.1 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.86 | |
| **Coefficient of Determination ($r^2$):** | 0.995 | |

**Air Permeability:** 3.96 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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YD9V-Q6GH-PJX4

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109191

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 38** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 59.76 | **Envelope ($m^2$)** 182.02 | **Volume ($m^3$)** 149.4 / **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5Q-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 21.250 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 667.3 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.88 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.67 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

Z7PU-99RS-RPTE

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11224250

| Test Undertaken By | Kevin Hammond of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Kevin Hammond

**Registration No:** 1029

| Qualification: | 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|---|
| | ✓ | ✓ | | | ✓ |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS41** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Top Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | Footprint ($m^2$) | Envelope ($m^2$) | Volume ($m^3$) | Storey |
|---|---|---|---|---|
| | 88.05 | 382.10 | 440.25 | 2 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Gas | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

17/11/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-12A-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans, All No. MVHR Vents | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 106.800 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1177.4 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.61 | |
| **Coefficient of Determination ($r^2$):** | 0.995 | |

**Air Permeability:** 3.08 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

W8DA-QG9M-C6B2

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109169

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 42** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Top Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 67.39 | **Envelope ($m^2$)** 220.03 | **Volume ($m^3$)** 168.475 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5A-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 39.720 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 785.1 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.76 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.57 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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9EEA-S428-5FG6

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11224251

| Test Undertaken By | Kevin Hammond of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Kevin Hammond

**Registration No:** 1029

| Qualification: | 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|---|
| | ✓ | ✓ | | | ✓ |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS43** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Top Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | Footprint ($m^2$) | Envelope ($m^2$) | Volume ($m^3$) | Storey |
|---|---|---|---|---|
| | 88.05 | 382.10 | 440.25 | 2 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Gas | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

17/11/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-12B-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans, All No. MVHR Vents | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 131.170 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1251.7 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.57 | |
| **Coefficient of Determination ($r^2$):** | 0.995 | |

**Air Permeability:** 3.28 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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VQHB-7CAQ-P6V3

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109170

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

**Building identifier:** AS 44

**Site address:** Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ

**Type:** Dwelling

**Description:** Flat - Top Floor

**Construction:** ICF

**Warm roof:** No

**Size:**

| Footprint ($m^2$) | Envelope ($m^2$) | Volume ($m^3$) | Storey |
|---|---|---|---|
| 57.53 | 196.06 | 143.825 | 1 |

**Ventilation:** System 4 - Continuous Mechanical Ventilation with Heat Recovery

**Primary heating:** Electric

**Air conditioning:** None

**Mastic sealing:** Sanitary ware only

## Test Details

26/04/2022

**Report reference:** C211105-5B-Pace Consult.

**Retest:** No

**Build progress:** Final

**Data acquisition:** Manual

**Test type:** Whole Building

**Temporary sealing:** No. Extractor Fans

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 35.590 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 768.8 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.78 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.92 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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8IVQ-QM7J-X7CP

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11137725

| Test Undertaken By | Kevin Hammond of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Kevin Hammond

**Registration No:** 1029

| Qualification: | 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|---|
| | ✓ | ✓ | | | ✓ |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 45** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Top Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | Footprint ($m^2$) | Envelope ($m^2$) | Volume ($m^3$) | Storey |
|---|---|---|---|---|
| | 74.71 | 242.22 | 186.775 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Gas | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

14/06/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-8G-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans, All No. MVHR Vents | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 67.890 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 951.7 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.67 | |
| **Coefficient of Determination ($r^2$):** | 0.987 | |

**Air Permeability:** 3.93 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

YQ69-HK75-QB87

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109171

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 46** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Top Floor |
| **Construction:** | ICF | **Warm roof:** | No |

**Size:**

| Footprint ($m^2$) | Envelope ($m^2$) | Volume ($m^3$) | Storey |
|---|---|---|---|
| 77.00 | 243.90 | 192.5 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5C-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 35.590 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 768.8 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.78 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.15 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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858N-44DV-DG8Z

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109172

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 47** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Top Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 55.65 | **Envelope ($m^2$)** 166.30 | **Volume ($m^3$)** 139.125 / **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5D-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 23.130 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 605.8 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.83 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.64 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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7582-23QG-5385

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109173

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 48** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Top Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 66.44 | **Envelope ($m^2$)** 214.38 | **Volume ($m^3$)** 166.1 **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5E-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 39.720 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 785.1 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.76 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.66 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

H792-227D-C64T

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109174

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 49** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Top Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 59.76 | **Envelope ($m^2$)** 182.02 | **Volume ($m^3$)** 149.4 / **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5F-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 23.130 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 605.8 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.83 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.33 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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ICPP-GR2Y-VTCG

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110276

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 01** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Ground Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 64.70 | **Envelope ($m^2$)** 209.90 | **Volume ($m^3$)** 161.75 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6A-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 72.300 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 735.6 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.59 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.50 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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T535-7JMZ-54P4

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110277

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 02** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Ground Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 105.65 | **Envelope ($m^2$)** 313.80 | **Volume ($m^3$)** 264.125 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6B-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 85.860 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1130.4 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.66 | |
| **Coefficient of Determination ($r^2$):** | 0.992 | |

**Air Permeability:** 3.60 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

WBVC-N4V5-V862

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110278

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 03** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Ground Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 93.05 | **Envelope ($m^2$)** 281.60 | **Volume ($m^3$)** 232.625 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6C-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 50.900 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1087.5 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.78 | |
| **Coefficient of Determination ($r^2$):** | 0.992 | |

**Air Permeability:** 3.86 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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XU3Z-P9N2-UX24

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110279

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 04** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Ground Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 92.96 | 283.42 | 232.4 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6D-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | | |
|---|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa | **Air Permeability:** |
| **Air Flow Coefficient ($C_{env}$):** | 76.350 | $m^3.h^{-1}\cdot Pa^n$ | **3.42** $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 970.4 | $m^3.h^{-1}$ | |
| **Air Flow Exponent (n):** | 0.65 | | |
| **Coefficient of Determination ($r^2$):** | 0.999 | | |

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

RGAY-UE9R-6Q5I

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110280

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 05** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Ground Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 100.46 | **Envelope ($m^2$)** 300.92 | **Volume ($m^3$)** 251.15 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6E-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 84.790 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 987.4 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.62 | |
| **Coefficient of Determination ($r^2$):** | 0.999 | |

**Air Permeability:** 3.28 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

RYFP-22RZ-C6Q5

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110281

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 06** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Ground Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 72.39 | 230.78 | 180.975 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6F-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 29.510 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 849.1 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.86 | |
| **Coefficient of Determination ($r^2$):** | 0.995 | |

**Air Permeability:** 3.68 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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S4N5-F8C3-7342

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110282

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

**Building identifier:** AS 07

**Site address:** Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ

**Type:** Dwelling

**Description:** Flat - Ground Floor

**Construction:** ICF

**Warm roof:** No

**Size:**

| Footprint ($m^2$) | Envelope ($m^2$) | Volume ($m^3$) | Storey |
|---|---|---|---|
| 66.44 | 214.38 | 166.1 | 1 |

**Ventilation:** System 4 - Continuous Mechanical Ventilation with Heat Recovery

**Primary heating:** Electric

**Air conditioning:** None

**Mastic sealing:** Sanitary ware only

## Test Details

27/04/2022

**Report reference:** C211105-6G-Pace Consult.

**Retest:** No

**Build progress:** Final

**Data acquisition:** Manual

**Test type:** Whole Building

**Temporary sealing:** No. Extractor Fans

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 29.510 | $m^3.h^{-1}$•$Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 849.1 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.86 | |
| **Coefficient of Determination ($r^2$):** | 0.995 | |

**Air Permeability:** 3.96 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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SHBD-ZRXX-B74E

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110283

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 08** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Ground Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 59.76 | **Envelope ($m^2$)** 182.02 | **Volume ($m^3$)** 149.4 **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6H-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 21.250 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 667.3 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.88 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.67 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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T8Y7-C735-RE38

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110284

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 11** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 64.70 | 209.90 | 161.75 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6I-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 83.520 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 767.4 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.56 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.66 $m^3.h^{-1}.m^{-2}$@50Pa

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TZB7-3HV7-73KI

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110285

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 12** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 105.65 | **Envelope ($m^2$)** 313.80 | **Volume ($m^3$)** 264.125 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6J-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 72.030 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1108 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.70 | |
| **Coefficient of Determination ($r^2$):** | 0.991 | |

**Air Permeability:** 3.53 $m^3.h^{-1}.m^{-2}$@50Pa

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TE4D-6BE3-J34N

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110286

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 13** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 93.05 | **Envelope ($m^2$)** 281.60 | **Volume ($m^3$)** 232.625 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6K-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 45.630 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1074.6 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.81 | |
| **Coefficient of Determination ($r^2$):** | 0.993 | |

**Air Permeability:** 3.82 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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789P-4ZPG-9IE6

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110287

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 14** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 92.96 | 283.42 | 232.4 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6L-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 76.350 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 970.4 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.65 | |
| **Coefficient of Determination ($r^2$):** | 0.999 | |

**Air Permeability:** 3.42 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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6TBX-9GX8-Q423

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110288

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 15** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 100.46 | 300.92 | 251.15 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6M-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 73.060 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 966.4 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.66 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.21 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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6IXZ-HT2C-Z2IK

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110289

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 16** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 72.39 | 230.78 | 180.975 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6N-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 22.190 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 818.1 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.92 | |
| **Coefficient of Determination ($r^2$):** | 0.988 | |

**Air Permeability:** 3.54 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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U8X3-K5H2-VT48

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11062268

| Test Undertaken By | Kevin Hammond of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Kevin Hammond

**Registration No:** 1029

| Qualification: | 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|---|
| | ✓ | ✓ | | | ✓ |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 17** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | Yes |

| Size: | Footprint ($m^2$) | Envelope ($m^2$) | Volume ($m^3$) | Storey |
|---|---|---|---|---|
| | 96.14 | 298.38 | 240.35 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Gas | **Air conditioning:** | Comfort Cooling |
| **Mastic sealing:** | None | | |

## Test Details

26/01/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5I-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans, ALL No. MVHR Vents | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 63.370 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 932.2 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.68 | |
| **Coefficient of Determination ($r^2$):** | 0.994 | |

**Air Permeability:** 3.12 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL.. subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11110290

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 18** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 59.76 | **Envelope ($m^2$)** 182.02 | **Volume ($m^3$)** 149.4 / **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

27/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-6O-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 21.250 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 667.3 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.88 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.67 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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VVGH-Q89W-92KC

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109175

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

**Building identifier:** AS 21

**Site address:** Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ

**Type:** Dwelling

**Description:** Flat - Mid Floor

**Construction:** ICF

**Warm roof:** No

**Size:**

| Footprint ($m^2$) | Envelope ($m^2$) | Volume ($m^3$) | Storey |
|---|---|---|---|
| 64.70 | 209.90 | 161.75 | 1 |

**Ventilation:** System 4 - Continuous Mechanical Ventilation with Heat Recovery

**Primary heating:** Electric

**Air conditioning:** None

**Mastic sealing:** Sanitary ware only

## Test Details

26/04/2022

**Report reference:** C211105-5A-Pace Consult.

**Retest:** No

**Build progress:** Final

**Data acquisition:** Manual

**Test type:** Whole Building

**Temporary sealing:** No. Extractor Fans

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 63.570 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 755.5 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.63 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.60 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

IN3M-8EXK-KMTX

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109178

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 22** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 105.65 | **Envelope ($m^2$)** 313.80 | **Volume ($m^3$)** 264.125 / **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5D-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 70.120 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1109.2 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.70 | |
| **Coefficient of Determination ($r^2$):** | 0.993 | |

**Air Permeability:** 3.53 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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ASXB-JG32-4W3J

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109176

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 23** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 93.05 | **Envelope ($m^2$)** 281.60 | **Volume ($m^3$)** 232.625 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5B-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 70.120 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1109.2 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.70 | |
| **Coefficient of Determination ($r^2$):** | 0.993 | |

**Air Permeability:** 3.94 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

94B3-MA47-97NW

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109177

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 24** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 92.96 | 283.42 | 232.4 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5C-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 34.460 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1116.7 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.89 | |
| **Coefficient of Determination ($r^2$):** | 0.995 | |

**Air Permeability:** 3.94 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

8839-UTM7-HHW7

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109179

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 25** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 100.46 | **Envelope ($m^2$)** 300.92 | **Volume ($m^3$)** 251.15 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5E-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 71.170 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 959.5 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.66 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.19 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

9278-2G4I-J7IX

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Enquiries should be made to: BCTA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group

# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109180

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 26** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 61.69 | 202.88 | 154.225 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5F-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | | |
|---|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa | **Air Permeability:** |
| **Air Flow Coefficient ($C_{env}$):** | 63.570 | $m^3.h^{-1}\cdot Pa^n$ | **3.72** $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 755.5 | $m^3.h^{-1}$ | |
| **Air Flow Exponent (n):** | 0.63 | | |
| **Coefficient of Determination ($r^2$):** | 0.998 | | |

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

7RNM-JUPM-8AJN

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109181

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 27** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 60.50 | 199.50 | 151.25 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5G-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 63.570 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 755.5 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.63 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.79 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

736R-42HG-77CV

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109182

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 28** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 64.33 | **Envelope ($m^2$)** 209.66 | **Volume ($m^3$)** 160.825 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5H-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 40.890 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 733.1 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.74 | |
| **Coefficient of Determination ($r^2$):** | 0.994 | |

**Air Permeability:** 3.50 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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IY55-8R85-MZ5U

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109183

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 29** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 59.76 | 182.02 | 149.4 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5I-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 47.550 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 716.6 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.69 | |
| **Coefficient of Determination ($r^2$):** | 0.992 | |

**Air Permeability:** 3.94 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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IBYJ-Q3D2-W2PV

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109184

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 31** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 64.70 | 209.90 | 161.75 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5J-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 72.300 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 735.6 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.59 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.50 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

GEJK-7BAM-IS54

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109185

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 32** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 105.65 | 313.80 | 264.125 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5K-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | | |
|---|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa | **Air Permeability:** |
| **Air Flow Coefficient ($C_{env}$):** | 85.860 | $m^3.h^{-1}\cdot Pa^n$ | **3.60** $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1130.4 | $m^3.h^{-1}$ | |
| **Air Flow Exponent (n):** | 0.66 | | |
| **Coefficient of Determination ($r^2$):** | 0.992 | | |

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

GDE8-XK55-VD6U

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109186

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 33** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |
| **Size:** | **Footprint ($m^2$)** 93.05 | **Envelope ($m^2$)** 281.60 | **Volume ($m^3$)** 232.625 — **Storey** 1 |
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5L-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 50.900 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1087.5 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.78 | |
| **Coefficient of Determination ($r^2$):** | 0.992 | |

**Air Permeability:** 3.86 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

H8G3-U6NQ-7T6F

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11109187

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AS 34** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 92.96 | 283.42 | 232.4 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

26/04/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-5M-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 76.350 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 970.4 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.65 | |
| **Coefficient of Determination ($r^2$):** | 0.999 | |

**Air Permeability:** 3.42 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

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EY3Z-4YP5-4AXW

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11062214

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 26** | | |
| **Site address:** | The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 80.26 | 256.52 | 192.624 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | None | | |

## Test Details

26/01/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-4D-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 105.800 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 900.3 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.54 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.51 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL.. subject to the above statements regarding temporary sealing and deviations from these test standards.

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BCTA

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Enquiries should be made to: BCTA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group

# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11137719

| Test Undertaken By | Kevin Hammond of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Kevin Hammond

**Registration No:** 1029

| Qualification: | 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|---|
| | ✓ | ✓ | | | ✓ |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 27** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 88.27 | 275.24 | 220.675 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Gas | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

14/06/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-8A-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans, All No. MVHR Vents | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 94.520 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1036 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.61 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.76 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

2U9U-N3Z9-9D73

BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11062211

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 28** | | |
| **Site address:** | The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 58.00 | 192.80 | 139.2 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | None | | |

## Test Details

26/01/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-4A-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 27.150 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 762 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.85 | |
| **Coefficient of Determination ($r^2$):** | 0.991 | |

**Air Permeability:** 3.95 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL.. subject to the above statements regarding temporary sealing and deviations from these test standards.

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BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11062213

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 31** | | |
| **Site address:** | The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 88.27 | 272.54 | 211.848 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | None | | |

## Test Details

26/01/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-4C-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 105.800 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 900.3 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.54 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.30 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL.. subject to the above statements regarding temporary sealing and deviations from these test standards.

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BCTA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11062215

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 32** | | |
| **Site address:** | The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 121.32 | 362.64 | 291.168 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | None | | |

## Test Details

26/01/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-4E-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | | |
|---|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa | **Air Permeability:** |
| **Air Flow Coefficient ($C_{env}$):** | 145.920 | $m^3.h^{-1}.Pa^n$ | **3.06** $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 1111.2 | $m^3.h^{-1}$ | |
| **Air Flow Exponent (n):** | 0.51 | | |
| **Coefficient of Determination ($r^2$):** | 0.998 | | |

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL.. subject to the above statements regarding temporary sealing and deviations from these test standards.

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11062216

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 33** | | |
| **Site address:** | The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 78.00 | 249.60 | 187.2 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | None | | |

## Test Details

26/01/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-4F-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 56.690 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 849.1 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.69 | |
| **Coefficient of Determination ($r^2$):** | 0.997 | |

**Air Permeability:** 3.40 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL.. subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11137720

| Test Undertaken By | Kevin Hammond of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Kevin Hammond

**Registration No:** 1029

| Qualification: | 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|---|
| | ✓ | ✓ | | | ✓ |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 34** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 75.79 | 247.58 | 189.475 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Gas | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

14/06/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-8B-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans, All No. MVHR Vents | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 112.460 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 959.2 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.55 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.87 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit www.bcta.group/attma/

3K88-NY86-5GY6

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11062218

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 35** | | |
| **Site address:** | The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 88.27 | 272.54 | 211.848 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | None | | |

## Test Details

26/01/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-4H-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | | |
|---|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa | **Air Permeability:** |
| **Air Flow Coefficient ($C_{env}$):** | 121.440 | $m^3.h^{-1}\cdot Pa^n$ | **3.49** $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 950 | $m^3.h^{-1}$ | |
| **Air Flow Exponent (n):** | 0.52 | | |
| **Coefficient of Determination ($r^2$):** | 0.999 | | |

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL.. subject to the above statements regarding temporary sealing and deviations from these test standards.

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11062217

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 36** | | |
| **Site address:** | The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 58.00 | 192.80 | 139.2 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | None | | |

## Test Details

26/01/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-4G-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 17.110 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 695.4 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.95 | |
| **Coefficient of Determination ($r^2$):** | 0.999 | |

**Air Permeability:** 3.61 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL.. subject to the above statements regarding temporary sealing and deviations from these test standards.

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11062219

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:** 1 ✓ 2 3 PH EA

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 41** | | |
| **Site address:** | The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 69.95 | 223.90 | 167.88 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | None | | |

## Test Details

26/01/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-4I-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 36.800 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 787.6 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.78 | |
| **Coefficient of Determination ($r^2$):** | 0.998 | |

**Air Permeability:** 3.52 $m^3.h^{-1}.m^{-2}$@50Pa

This is to certify that the above name building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL.. subject to the above statements regarding temporary sealing and deviations from these test standards.

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11062220

| Test Undertaken By | Alex Ross of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Alex Ross

**Registration No:** 16055

**Qualification:**

| 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|
| ✓ | | | | |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 42** | | |
| **Site address:** | The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 49.54 | 175.88 | 118.896 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Electric | **Air conditioning:** | None |
| **Mastic sealing:** | None | | |

## Test Details

26/01/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-4J-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 29.440 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 675.2 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.80 | |
| **Coefficient of Determination ($r^2$):** | 0.990 | |

**Air Permeability:** 3.84 $m^3.h^{-1}.m^{-2}$@50Pa

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11137721

| Test Undertaken By | Kevin Hammond of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Kevin Hammond

**Registration No:** 1029

| Qualification: | 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|---|
| | ✓ | ✓ | | | ✓ |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 43** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 51.60 | 178.50 | 129 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Gas | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

14/06/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-8C-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans, All No. MVHR Vents | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 58.070 | $m^3.h^{-1}.Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 671.2 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.63 | |
| **Coefficient of Determination ($r^2$):** | 0.996 | |

**Air Permeability:** 3.76 $m^3.h^{-1}.m^{-2}$@50Pa

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38S8-EQ5J-E5KA

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11137722

| Test Undertaken By | Kevin Hammond of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Kevin Hammond

**Registration No:** 1029

| Qualification: | 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|---|
| | ✓ | ✓ | | | ✓ |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 44** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 68.70 | 225.85 | 171.75 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Gas | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

14/06/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-8D-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans, All No. MVHR Vents | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 68.210 | $m^3.h^{-1}\cdot Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 846.5 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.64 | |
| **Coefficient of Determination ($r^2$):** | 0.988 | |

**Air Permeability:** 3.75 $m^3.h^{-1}.m^{-2}$@50Pa

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367A-PU8Y-DP2U

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# Certificate of Air Permeability Test

ATTMA
The Air Tightness Testing & Measurement Association

UCRN: 11137723

| Test Undertaken By | Kevin Hammond of Air Leakage Testing Ltd |
|---|---|

## Registered Company Details

**Air Leakage Testing Ltd**

**Address:** 7 Lawson Way
Aylesbury
HP18 0UW

**Telephone:** 01799 540220

**Email:** info@airleakagetesting.co.uk

## Registered Tester Details

**Technician:** Kevin Hammond

**Registration No:** 1029

| Qualification: | 1 | 2 | 3 | PH | EA |
|---|---|---|---|---|---|
| | ✓ | ✓ | | | ✓ |

For clarification on technician qualifications please visit:
https://www.bcta.group/attma/members/

## Building Details

| | | | |
|---|---|---|---|
| **Building identifier:** | **AN 45** | | |
| **Site address:** | Hornsey Town Hall, The Broadway, Crouch End, London, N8 9JJ | | |
| **Type:** | Dwelling | **Description:** | Flat - Mid Floor |
| **Construction:** | ICF | **Warm roof:** | No |

| **Size:** | **Footprint ($m^2$)** | **Envelope ($m^2$)** | **Volume ($m^3$)** | **Storey** |
|---|---|---|---|---|
| | 67.53 | 222.46 | 168.825 | 1 |

| | | | |
|---|---|---|---|
| **Ventilation:** | System 4 - Continuous Mechanical Ventilation with Heat Recovery | | |
| **Primary heating:** | Gas | **Air conditioning:** | None |
| **Mastic sealing:** | Sanitary ware only | | |

## Test Details

14/06/2022

| | | | |
|---|---|---|---|
| **Report reference:** | C211105-8E-Pace Consult. | | |
| **Retest:** | No | **Build progress:** | Final |
| **Data acquisition:** | Manual | **Test type:** | Whole Building |
| **Temporary sealing:** | No. Extractor Fans, All No. MVHR Vents | | |

## Deviations from Test Standard

**Deviations:** None

**Notifications:**

## Test Results

Pass ✓

| | | |
|---|---|---|
| **Target:** | <= 4.00 | $m^3.h^{-1}.m^{-2}$@50Pa |
| **Air Flow Coefficient ($C_{env}$):** | 67.800 | $m^3.h^{-1}$•$Pa^n$ |
| **Air Leakage at 50 Pa ($Q_{50}$):** | 814.2 | $m^3.h^{-1}$ |
| **Air Flow Exponent (n):** | 0.64 | |
| **Coefficient of Determination ($r^2$):** | 0.983 | |

**Air Permeability:** 3.66 $m^3.h^{-1}.m^{-2}$@50Pa

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Y2EG-I3Y6-C9G6

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