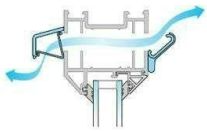
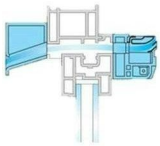
Table1: Internal Mitigation Measures

<table>
<tr><th>Mitigation Ref.</th><th>Glazing Solution</th><th>Whole-Dwelling Ventilation Solution</th><th>Overheating Ventilation Solution</th></tr>
<tr><td>Ref. A-1</td><td rowspan="2">See L205 Standard Glazing Specification

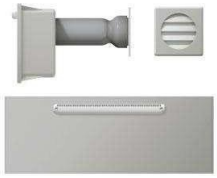
4mm glass panel
20mm air gap (argon)
4mm glass panel

Approx. 28 dB $R_w + C_{tr}$</td><td>See L205 Standard Trickle Vent Specification
Direct airpath trickle vent located in the top of the window frame

Approx. $D_{ne,\,w} + C_{tr}$ = 32 dB</td><td><u>No Overheating Mitigation Required</u>.
Opening windows can be used to combat overheating and provide purge ventilation.</td></tr>
<tr><td>Ref. A-2</td><td>See L205 Acoustic Trickle Vent Specification
Trickle vent with torturous airpath located in the top of the window frame

Approx. $D_{ne,\,w} + C_{tr}$ = 37 dB</td><td rowspan="2"><u>See Zehnder LPID100 MV System</u>
Mechanical Ventilation Systems to provide, extract and purge ventilation.


Exact overheating ventilation strategy should be determined through the Dynamic Thermal Modelling process and subsequent acoustic calculations.</td></tr>
<tr><td>Ref. B</td><td>See L205 Acoustic Glazing Specification

10mm pane
12mm air space
6mm pane

Approx. $R_w + C_{tr}$ = 37 dB</td><td><u>See L205 Through Wall Vent Specification</u>

Through wall trickle vent with torturous airpath.

Approx. $D_{n,e,w} + C_{tr}$ = 42 dB</td></tr>
</table>

Glazing and Ventilation Summary

1.8 For the avoidance of doubt, each reference is summarised below per plot, with the submitted information for Condition 18 to be read in conjunction with the above. The mitigation schedule is below for the affected plots listed in Condition 18.

Plot	House Type	Parameter	Predicted External Level dB	Fac;ade	Room	Criteria (dB)	Exceedance (dB)	Mitigation Ref.
1	M312 OP	Daytime Ambient LAeq,16hr	51	Southern	Living Room	35	16	**Ref A-2**
		Night-time Ambient LAeq,8hr	45		Bedroom 1	30	15	**Ref A-2**
		Night-time Maximum LAFmax,1min	69		Bedroom 1	45	24	**Ref A-2**
		Daytime Ambient LAeq,16hr	47	Eastern	No windows on this facade For Habitable rooms	35	12	-
		Night-time Ambient LAeq,8hr	42			30	12	
		Night-time Maximum LAFmax,1min	66			45	21	
2	M409AS	Daytime Ambient LAeq,16hr	49	Southern	Living Room	35	14	**Ref A-2**
		Night-time Ambient LAeq,8hr	44		Bedroom 3	30	14	**Ref A-2**
		Night-time Maximum LAFmax,1min	68		Bedroom 4	45	23	**Ref A-2**
		Daytime Ambient LAeq,16hr	46	Eastern	No windows on this facade For Habitable rooms	35	11	-
		Night-time Ambient LAeq,8hr	41			30	11	
		Night-time Maximum LAFmax,1min	65			45	20	

Plot	House Type	Parameter	Predicted External Level dB	Fac;ade	Room	Criteria (dB)	Exceedance (dB)	Mitigation Ref.
3	M404 OP	Daytime Ambient LAeq,16hr	40	Southern	No windows on this facade For Habitable rooms	35	5	-
		Night-time Ambient LAeq,8hr	36			30	6	
		Night-time Maximum LAFmax,1min	60			45	15	
		Daytime Ambient LAeq,16hr	41	Eastern	No windows on this facade For Habitable rooms	35	6	-
		Night-time Ambient LAeq,8hr	37		Bedroom 1	30	11	**RefA-1**
		Night-time Maximum LAFmax,1min	60			45	15	**Ref A-2**
4	M308 AS	Daytime Ambient LAeq,16hr	46	Southern	Living Room	35	11	**Ref A-1**
		Night-time Ambient LAeq,8hr	41		Bedroom 1/2	30	11	**RefA-1**
		Night-time Maximum LAFmax,1min	65		Bedroom 1/2	45	20	**Ref A-2**
		Daytime Ambient LAeq,16hr	45	Eastern	Living Room	35	10	**RefA-1**

Plot	House Type	Parameter	Predicted External Level dB	Fac;ade	Room	Criteria (dB)	Exceedance (dB)	Mitigation Ref.
		Night-time Ambient LAeq, 8hr	40		No windows on this facade For Habitable rooms	30	10	-
		Night-time Maximum LAFmax, 1min	64			45	19	
5	M312 AS	Daytime Ambient LAeq, 16hr	42	Eastern	Living Room	35	7	**RefA-1**
		Night-time Ambient LAeq, 8hr	38		Bedroom 1	30	8	**RefA-1**
		Night-time Maximum LAFmax, 1min	62		Bedroom 1	45	17	**RefA-2**

-

Plot	House Type	Parameter	Predicted External Level dB	Façade	Room	Criteria (dB)	Exceedance (dB)	Mitigation Ref.
43	M308 AS	Daytime Ambient $L_{Aeq, 16hr}$	50	Eastern	Living Room	35	15	Ref A-2
		Night-time Ambient $L_{Aeq, 8hr}$	54		Bedroom	30	24	Ref A-2
		Daytime Ambient $L_{Aeq, 16hr}$	46	Northern	Living Room	35	11	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	49		Bedroom	30	19	Ref A-2
44	M204 OP	Daytime Ambient $L_{Aeq, 16hr}$	50	Eastern	Living Room	35	15	Ref A-2
		Night-time Ambient $L_{Aeq, 8hr}$	54		Bedroom	30	24	Ref A-2
		Daytime Ambient $L_{Aeq, 16hr}$	48	Southern	No windows to habitable rooms on this facade	35	13	-
		Night-time Ambient $L_{Aeq, 8hr}$	52			30	22	
45	M312 AS	Daytime Ambient $L_{Aeq, 16hr}$	42	Northern	No windows to habitable rooms on this facade	35	7	-
		Night-time Ambient $L_{Aeq, 8hr}$	51			30	21	

		Daytime Ambient $L_{Aeq, 16hr}$	51	Eastern	Living Room	35	16	Ref A-2
		Night-time Ambient $L_{Aeq, 8hr}$	55		Bedroom	30	25	Ref B
		Daytime Ambient $L_{Aeq, 16hr}$	49	Southern	No windows to habitable rooms on this facade	35	14	-
		Night-time Ambient $L_{Aeq, 8hr}$	53			30	23	
46	M308A AS	Daytime Ambient $L_{Aeq, 16hr}$	49	Northern	Living Room	35	14	Ref A-2
		Night-time Ambient $L_{Aeq, 8hr}$	53		Bedroom 3	30	23	Ref A-2
		Daytime Ambient $L_{Aeq, 16hr}$	50	Eastern	Living Room	35	15	Ref A-2
		Night-time Ambient $L_{Aeq, 8hr}$	55		No windows to habitable rooms on this facade	30	25	-
		Daytime Ambient $L_{Aeq, 16hr}$	38	Southern	Living Room	35	3	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	46		Bedroom 1	30	16	Ref A-2
51	M404 AS	Daytime Ambient $L_{Aeq, 16hr}$	46	Northern	Living Room	35	11	Ref A-1

		Night-time Ambient $L_{Aeq, 8hr}$	51		Bedroom 2/4	30	21	Ref A-2
		Daytime Ambient $L_{Aeq, 16hr}$	49	Eastern	Living Room	35	14	Ref A-2
		Night-time Ambient $L_{Aeq, 8hr}$	54		Bedroom 1	30	24	Ref B
		Daytime Ambient $L_{Aeq, 16hr}$	43	Southern	No windows to habitable rooms on this facade	35	8	-
		Night-time Ambient $L_{Aeq, 8hr}$	47			30	17	
52	M308 AS	Daytime Ambient $L_{Aeq, 16hr}$	46	Northern	Living Room	35	11	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	50		Bedroom 1	30	20	Ref A-2
		Daytime Ambient $L_{Aeq, 16hr}$	49	Eastern	Living Room	35	14	Ref A-2
		Night-time Ambient $L_{Aeq, 8hr}$	54		No windows to habitable rooms on this facade	30	24	-
		Daytime Ambient $L_{Aeq, 16hr}$	46	Southern	No windows to habitable rooms on this facade	35	11	Ref A-1

		Night-time Ambient $L_{Aeq, 8hr}$	50		Bedroom 2	30	20	Ref A-2
59	M308 AS	Daytime Ambient $L_{Aeq, 16hr}$	47	Eastern	Living Room	35	12	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	49		Bedroom	30	19	Ref A-2
60	M204 OP	Daytime Ambient $L_{Aeq, 16hr}$	47	Eastern	Living Room	35	12	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	49		Bedroom	30	19	Ref A-2
61	M204 AS	Daytime Ambient $L_{Aeq, 16hr}$	47	Eastern	Living Room	35	12	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	50		Bedroom	30	20	Ref A-2
		Daytime Ambient $L_{Aeq, 16hr}$	44	Southern	No windows to habitable rooms on this facade	35	9	-
		Night-time Ambient $L_{Aeq, 8hr}$	47			30	17	
62	M305 OP	Daytime Ambient $L_{Aeq, 16hr}$	48	Eastern	Living Room	35	13	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	51		Bedroom 1	30	21	Ref A-2

63	M305 AS	Daytime Ambient $L_{Aeq, 16hr}$	48	Eastern	Living Room	35	13	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	51		Bedroom 1	30	21	Ref A-2
		Daytime Ambient $L_{Aeq, 16hr}$	47	Southern	No windows to habitable rooms on this facade	35	12	-
		Night-time Ambient $L_{Aeq, 8hr}$	50			30	20	
64	M303 OP	Daytime Ambient $L_{Aeq, 16hr}$	49	South Eastern	Living Room	35	14	Ref A-2
		Night-time Ambient $L_{Aeq, 8hr}$	52		Bedroom 1	30	22	Ref B
		Daytime Ambient $L_{Aeq, 16hr}$	49	Eastern	No windows to habitable rooms on this facade	35	14	-
		Night-time Ambient $L_{Aeq, 8hr}$	52		Bedroom 2	30	22	Ref A-2
65	M303 AS	Daytime Ambient $L_{Aeq, 16hr}$	49	South Eastern	Living Room	35	14	Ref A-2
		Night-time Ambient $L_{Aeq, 8hr}$	52		Bedroom 1	30	22	Ref B

		Daytime Ambient $L_{Aeq, 16hr}$	49	Southern	No windows to habitable rooms on this facade	35	14	-
		Night-time Ambient $L_{Aeq, 8hr}$	51		Bedroom 2	30	21	Ref A-2
66	M409 AS	Daytime Ambient $L_{Aeq, 16hr}$	47	Southern	Living Room	35	12	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	49		Bedroom 3/4	30	19	Ref A-2
		Daytime Ambient $L_{Aeq, 16hr}$	47	Eastern	No windows to habitable rooms on this facade	35	12	-
		Night-time Ambient $L_{Aeq, 8hr}$	49			30	19	
67	M411 OP	Daytime Ambient $L_{Aeq, 16hr}$	33	Eastern	Living Room	35	-2	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	39		No windows to habitable rooms on this facade	30	9	-
		Daytime Ambient $L_{Aeq, 16hr}$	45	Southern	Living Room	35	10	Ref A-1
		Night-time Ambient $L_{Aeq, 8hr}$	47		Bedroom 2/3	30	17	Ref A-2