ALLISON HOMES

Planning Services
Huntingdonshire District Council
St. Marys Street
Huntingdon
PE29 3TN
6th May 2025

Dear Sir or Madam,

Discharge of Planning Conditions Application in relation to Reserved Matters Planning Application 23/00369/REM- Condition 18 Noise Mitigation

Pleased find enclosed an application to discharge planning conditions 9, 16, and 23, relating to the Reserved Matters Planning Permission (23/00369/REM).

The below indicates which plans and reports submitted relate to each Condition.

Glazing Details

All plots will have double glazing of 4mm glass, 20mm argon-gas filled gap, 4mm glass, to provide a noise reduction of Ctr 28 dB. This exceeds the Noise Report specifications approved as part of the Reserved Matters application. Glazing details are provided in L205 Standard Glazing Specification.

Where a plot has to meet certain noise reduction specifications (mitigation reference B), acoustically rated glazing will be used to provide noise reduction of Rw(C;Ctr) = 37(-1;-3) dB, which again exceeds the Noise Report specifications approved as part of the Reserved Matters application. Acoustic glazing details are provided in L205 Acoustic Glazing Specification.

Trickle Vents

Non-acoustic trickle vents will be used on plots referenced as A1, with detail provided on L205 Standard Trickle Vent Specification. Acoustic vents will be provided as per the L205 Acoustic Trickle Vent Specification data sheet, with these providing a Rw(C;Ctr) = 37dB reduction in noise, bettering the Noise Report specifications.

The Through Wall Vents used on rooms with noise mitigation ref B will reduce sound by 42 dB with internal grille fully open or closed (Dn,e,w). This is in compliance with the Noise Report.

Mechanical Ventilation

Where plots/rooms have noise mitigation Ref A-2 or B, mechanical ventilation will be required. The mechanical ventilation will provide a minimum of 2 air changes per hour, and will not exceed 30dB 3m from the ventilation unit. The unit proposed is the Zehnder LPID100.

The Zehnder LPID100 unit achieves a maximum air flow of 40 l/s (or 144 m3/hour), which omits 35.3 dB at 3m, however, the LPID100 unit can be restricted to achieve a noise level of under 30dB at 3m to achieve a maximum air flow of 30 l/s, as shown by the calculations below.

Test area	Octave Band (Hz) Sound Power Level, dB								dB(A) @ 3m
	63	125	250	500	1000	2000	4000	8000	
Inlet	70.2	68.1	64.6	59.2	49	44.8	37	32.1	
Outlet	75.2	71.1	70.6	61.2	55	48.8	44	36.1	
Environment	53.2	46.1	52.6	45.2	36	30.8	28	30.1	29.42

At 2 air changes per hour, the maximum room size the LPID100 can cover is 22.5m2, with ceiling height a standard 2.4m high. The largest room (M404 Living Room) plotted across all house types is 21.7m2, highlighting that the LPID100 will be able to achieve the required 2 air changes per hour at 28.93 l/s, whilst being under 30dB at 3m.

	Dimensions in metres						Required flow rate	
Room Ref.	length	width	Area	ceiling height	volume	purge factor	m3/h	l/s
M404 Living Room	7	3.1	21.7	2.4	52.08	2	104.16	28.933333

This note highlights the different products used dependent on the noise mitigation required, and how the products achieve the noise reduction required through the Reserved Matters application.

Thanks,

[redacted]