

Planning Application no: 221800 - Various Properties at Rockbourne Gardens, Cranbourne Gardens, and Ripley Road, Reading

ASHP - Sound Test Results

	UPRN	Master Address	Postcode	Phase No.	Habitable room distance to neighbouring property	Results
1	1037532	Cranborne Gardens 0002	RG30 6TS	Phase 3	5 to 6m	41db
2	1037554	Cranborne Gardens 0004	RG30 6TS	Phase 3	6 to 7m	assumed lower than 41db
3	1037565	Cranborne Gardens 0007	RG30 6TS	Phase 3	omit from programme	N/A
4	1037576	Cranborne Gardens 0008	RG30 6TS	Phase 3	5 to 6m	41db
5	1037474	Cranborne Gardens 0010	RG30 6TS	Phase 3	4 to 5m	42db
6	1037485	Cranborne Gardens 0011	RG30 6TS	Phase 3	5 to 6m	41db
7	1038911	Ripley Road 0006	RG30 6UD	Phase 3	4 to 5m	42db
8	1038784	Ripley Road 0011	RG30 6UD	Phase 3	5 to 6m	41db
9	1038819	Ripley Road 0016	RG30 6UD	Phase 3	4 to 5m	42db
10	1038820	Ripley Road 0018	RG30 6UD	Phase 3	4 to 5m	42db
11	1038831	Ripley Road 0020	RG30 6UD	Phase 3	4 to 5m	42db
12	1038842	Ripley Road 0022	RG30 6UD	Phase 3	4 to 5m	42db
13	1038853	Ripley Road 0024	RG30 6UD	Phase 3	4 to 5m	42db
14	1038864	Ripley Road 0026	RG30 6UD	Phase 3	4 to 5m	42db
15	1038933	Rockbourne Gardens 0001	RG30 6AU	Phase 3	4 to 5m	42db
16	1038977	Rockbourne Gardens 0003	RG30 6AU	Phase 3	4 to 5m	42db
17	1038988	Rockbourne Gardens 0004	RG30 6AU	Phase 3	4 to 5m	42db
18	1038999	Rockbourne Gardens 0006	RG30 6AU	Phase 3	5 to 6m	41db
19	1039005	Rockbourne Gardens 0007	RG30 6AU	Phase 3	4 to 5m	42db
20	1039016	Rockbourne Gardens 0009	RG30 6AU	Phase 3	4 to 5m	42db
21	1038944	Rockbourne Gardens 0010	RG30 6AU	Phase 3	4 to 5m	42db
22	1038955	Rockbourne Gardens 0013	RG30 6AU	Phase 3	4 to 5m	42db

Sound test Calculations - Details Provided by ASHP suppliers - Mitsubishi

ASHP - Sound Power Level

1. Sound power level (dB)	58
2. Sound pressure level (dB)	Q4 - "Two Reflective Surfaces" 
3.Distance from heat pump to assessment position (meters)	4
4. dB Distance Reduction	-17
5. Barriers Between heat pump and assessment position	Barrier (partial view)
6.Sound pressure level @ assessment position	36
7. Background noise level (dB)	40
8. Differential between 6. & 7.	4
9. Decibel Correction (dB)	41.5
10. Final Result (dB)	 42.0
	Pass

Scope

Design Details

U Value Calculator

Design Tables

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MCS020

GL Sizing

HP Rad sizing

ASHP - Sound Power Level

1. Sound power level (dB)	58
2. Sound pressure level (dB)	Q4 - "Two Reflective Surfaces"
3. Distance from heat pump to assessment position (meters)	5
4. dB Distance Reduction	-19
5. Barriers Between heat pump and assessment position	Barrier (partial view)
6. Sound pressure level @ assessment position	34
7. Background noise level (dB)	40
8. Differential between 6. & 7.	6
9. Decibel Correction (dB)	41.0
10. Final Result (dB)	✓ 41.0
	Pass



WILL ROSSITER
Residential Specification Manager
(London and South East)



Phone: +44 (0) 7384877119

Email: william.rossiter@meuk.mee.com


