

**Byers Gill Solar
EN010139**

6.4.11.4 Environmental Statement Appendix 11.4 BS4142 Assessment Calculations

Planning Act 2008

APFP Regulation 5(2)(q)

Infrastructure Planning (Applications: Prescribed Forms
and Procedure) Regulations 2009

Volume 6

October 2024

Revision 2



ES Appendix 11.4 BS4142 Assessment Calculations

Appendix 11.3 - BS4142 Assessment of the Noise from the Proposed Development as received at ESRs during the Daytime					
Receptor Location	Specific Level $L_{Aeq,1h}$	Character Penalty	Rating Level	Background Sound Level $L_{A90,t}$	Difference
ESR 1	26	0	26	37	-11
ESR 2	32	0	32	37	-5
ESR 3	26	0	26	37	-11
ESR 4	38	0	38	42	-4
ESR 5	27	0	27	42	-15
ESR 6	28	0	28	42	-14
ESR 7	24	0	24	42	-18
ESR 8	29	0	29	42	-13
ESR 9	24	0	24	37	-13
ESR 10	21	0	21	38	-17
ESR 11	24	0	24	38	-14
ESR 12	21	0	21	38	-17
ESR 13	24	0	24	42	-18
ESR 14	25	0	25	39	-14
ESR 15	28	0	28	39	-11
ESR 16	32	0	32	53	-21
ESR 17	30	0	30	50	-20
ESR 18	28	0	28	50	-22
ESR 19	30	0	30	50	-20
ESR 20	30	0	30	50	-20
ESR 21	28	0	28	50	-22
ESR 22	28	0	28	50	-22
ESR 23	27	0	27	39	-12
ESR 24	27	0	27	39	-12
ESR 25	27	0	27	50	-23
ESR 26	26	0	26	39	-13
ESR 27	25	0	25	39	-14
ESR 28	30	0	30	40	-10
ESR 29	20	0	20	40	-20
ESR 30	30	0	30	40	-10
ESR 31	27	0	27	40	-13
ESR 32	29	0	29	44	-15
ESR 33	25	0	25	44	-19
ESR 34	25	0	25	44	-19
ESR 35	29	0	29	44	-15
ESR 36	29	0	29	44	-15
ESR 37	25	0	25	44	-19
ESR 38	29	0	29	44	-15
ESR 39	26	0	26	44	-18
ESR 40	25	0	25	44	-19
ESR 41	25	0	25	44	-19
ESR 42	27	0	27	44	-17
ESR 43	24	0	24	44	-20

Appendix 11.3 - BS4142 Assessment of the Noise from the Proposed Development as received at ESRs during the Night-time

Receptor Location	Specific Level $L_{Aeq,1h}$	Character Penalty	Rating Level	Background Sound Level $L_{A90,t}$	Difference
ESR 1	26	0	26	33	-7
ESR 2	32	0	32	33	-1
ESR 3	26	0	26	33	-7
ESR 4	38	0	38	34	4
ESR 5	27	0	27	34	-7
ESR 6	28	0	28	34	-6
ESR 7	24	0	24	34	-10
ESR 8	29	0	29	34	-5
ESR 9	24	0	24	33	-9
ESR 10	21	0	21	25	-4
ESR 11	24	0	24	25	-1
ESR 12	21	0	21	25	-4
ESR 13	24	0	24	33	-9
ESR 14	25	0	25	26	-1
ESR 15	28	0	28	26	2
ESR 16	32	0	32	26	6
ESR 17	30	0	30	31	-1
ESR 18	28	0	28	31	-3
ESR 19	30	0	30	31	-1
ESR 20	30	0	30	31	-1
ESR 21	28	0	28	31	-3
ESR 22	28	0	28	31	-3
ESR 23	27	0	27	26	1
ESR 24	27	0	27	26	1
ESR 25	27	0	27	31	-4
ESR 26	26	0	26	26	0
ESR 27	25	0	25	26	-1
ESR 28	30	0	30	31	-1
ESR 29	20	0	20	31	-11
ESR 30	30	0	30	31	-1
ESR 31	27	0	27	31	-4
ESR 32	29	0	29	34	-5
ESR 33	25	0	25	34	-9
ESR 34	25	0	25	34	-9
ESR 35	29	0	29	34	-5
ESR 36	29	0	29	34	-5
ESR 37	25	0	25	34	-9
ESR 38	29	0	29	34	-5
ESR 39	26	0	26	34	-8
ESR 40	25	0	25	34	-9
ESR 41	25	0	25	34	-9
ESR 42	27	0	27	34	-7
ESR 43	24	0	24	34	-10