



HB Planning Services
Info@hbplanningservices.co.uk | 02080371998

NOISE IMPACT ASSESSMENT REPORT

Extractor Fan – 8A High Street, Reading, RG1 2EA

1. Introduction

This report assesses the noise impact associated with a proposed kitchen extractor fan at 8A High Street, Reading, RG1 2EA.

2. Site Description

The premises comprise a commercial kitchen located at the rear of a ground-floor unit. The extractor fan is positioned externally at the rear, approximately 3.5 metres from the nearest residential window.

3. Equipment Details

Extractor Fan Type: GBW 560/4 – 1PH Gigabit Fan – Helios

Fan Location: Rear external wall

Hours of Operation: 12:00 to 23:00 daily

4. Baseline Noise Environment

Ambient background LA90 assumed 50 dB.

5. Noise Prediction

Predicted level at 3.5m: ~62 dB(A)



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6. BS 4142 Assessment

Rating level including acoustic feature correction: 65 dB(A)

Difference above background: +15 dB

7. Vibration & Transmission Control Measures

Duct work will be mounted on brackets which will be fitted onto the wall using anti-vibration mounts. This will eliminate any vibration transfer from the duct work to the building structure. The fan will also be fitted using anti-vibration mounts, and there will be a flexible connection between the fan and the duct work to further prevent vibration transmission.

8. Post-Mitigation

Estimated reduction: 12 dB(A)

Predicted rating level after mitigation: 53 dB(A)

Difference above background: +3 dB (low impact)

9. Conclusion

With mitigation, noise levels are expected to be acceptable for planning approval.

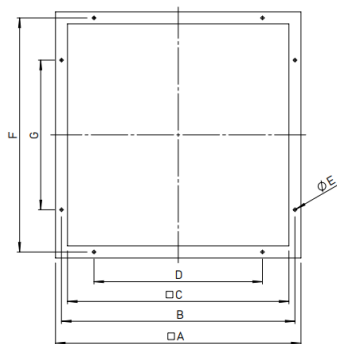
Appendix – Manufacturer Datasheet

Below is the provided manufacturer datasheet image for the Helios GBW 560/4 extractor fan model.

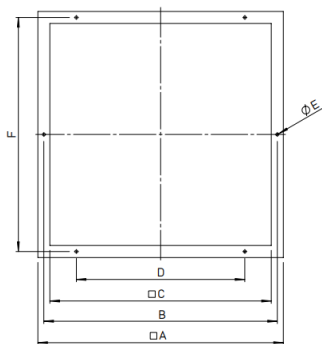


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GBW 250-500



GBW 560-710



Dimensions in mm

■ TABLE OF TYPE

Type	A	B	C	D	ϕE	F	G
GBW 250	352	339	310	-	6,5	-	230
GBW 315/355	452	439	410	330	6,5	439	330
GBW 400/450	622	609	580	500	6,5	609	500
GBW 500	622	609	580	500	6,5	609	500
GBW 560/630	718	698	678	620	8	698	-
GBW 710	938	918	898	840	8	918	-