

Case Study – Spring Gardens



Project Overview:

Bespoke Acoustic Solutions Limited recently completed a prestigious project at Spring Gardens in Manchester, England, in collaboration with our valued client, Overbury. The project involved the design, manufacture, and installation of two acoustic louvre enclosures for a series of Variable Refrigerant Flow (VRF) units situated on the rooftop of the building. As experts in noise control solutions, our focus on acoustic louvres was instrumental in delivering exceptional results for our client.



Collaborative Approach:

Collaboration was pivotal to the success of this project. Working closely with Overbury as the main contractor, along with the structural engineer, acoustic consultant, and MEP engineers, we fostered a synergistic partnership aimed at achieving the project's objectives seamlessly.

Bespoke Acoustic Solutions Limited

Unit 12 Shield Drive, Wardley Industrial Estate, Worsley, Manchester, M28 2QB

T | 0161 804 4440 E | contact@bas-ltd.co.uk W | bas-ltd.co.uk

Registered in England No. 10866964.



Challenges and Solutions:

Several challenges emerged during the project, all of which were effectively addressed through innovative solutions.

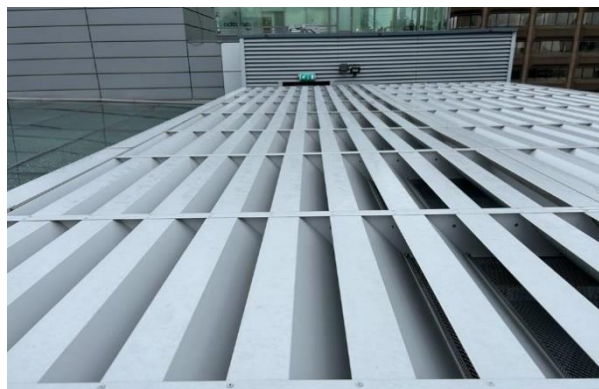
1) Roof Space Constraints:

Like previous projects, we encountered limitations regarding the rooftop layout, particularly concerning the window cleaning boom. Through careful planning and coordination with the project team, we devised a design that ensured the enclosures harmonized with the existing structures without hindering the functionality of the window cleaning equipment.



2) Optimization of VRF Systems:

Ensuring the optimal performance of the VRF systems was paramount. Our team conducted extensive analyses to minimize airflow resistance within the enclosures, thereby optimizing the efficiency of the VRF units. This involved customizing the louvre design to strike the perfect balance between noise control and airflow dynamics.



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3) Air Rejection Management:

To prevent the recirculation of rejected air from the VRF units within the enclosures, we implemented a sophisticated separation system. By strategically positioning baffles and airflow deflectors, we effectively redirected the rejected air away from the intake louvre openings, ensuring superior air quality and system efficiency.



Successful Implementation:

Through a collaborative and solution-oriented approach, Bespoke Acoustic Solutions Limited successfully implemented the acoustic louvre enclosures at Spring Gardens. The completed project not only met but exceeded the expectations of our client, Overbury, in terms of noise control, functionality, and overall performance.



Conclusion:

The Spring Gardens project exemplifies Bespoke Acoustic Solutions Limited's commitment to excellence in noise control solutions. By leveraging our expertise in acoustic louvres and fostering collaborative partnerships with clients and industry professionals, we continue to deliver innovative solutions that enhance acoustic environments and exceed client expectations. As we look to the future, we remain dedicated to pushing the boundaries of noise control technology and delivering unparalleled results for our valued clients.

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