

Taylor Wimpey, Manchester



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Nationwide Frame Services Ltd (NFS) was selected in 2017 to supply and install windows to a housing development project in Clarendon Road, Hyde, led by Taylor Wimpey. Comprising of 79 residential houses, the development has an estimated construction time of 24 months and a completion date of late 2019 / early 2020.

The ventilation specification was raised at the tender stage of the project, with a brief to suppress the traffic noise caused by the development's proximity to a major A road in order to meet the acoustic requirements of the site. Having worked with the team at Zehnder Greenwood on many previous projects, NFS consulted them immediately when the issue of ventilation was raised.



Key Facts

- ▶ Development of 79 residential houses in Clarendon Road, Hyde, Manchester
- ▶ Nuisance traffic noise caused by proximity to major A road
- ▶ Requirement to minimise noise whilst providing correct level of ventilation to houses
- ▶ Zehnder Greenwood EAR42W window ventilators were used throughout the development

Design Considerations

- ▶ The location of the houses close to the A road meant that extra consideration was needed around how noise could be 'designed out' of the properties.
- ▶ Having previously worked with Zehnder Greenwood on many occasions and having used the EAR42W vent on several developments, NFS knew that the product was the best solution for the project, providing the correct levels of ventilation whilst suppressing the nuisance noise and delivering ideal acoustic conditions for the site.
- ▶ The vents were installed throughout the development and there have been no issues or problems throughout the installation process.

The Solution



1. The Solution - Countering Noise issues

Since the 1950s the development of home entertainment products, brownfield sites and growth in transport has increased noise levels within the domestic environment.

Section 79 of the Environmental Protection Act (England & Wales) and Control of Pollution Act (Scotland) both cover statutory nuisances including 'noise emitted from premises so as to be prejudicial to health or a nuisance'.

Regulations, standards and guidelines in respect of planning building design, construction and use are numerous and becoming more complex. This has led to a review of existing methodology and the controls used to ensure compliance.

"We have worked closely with the Zehnder Greenwood team in recent years and they are now our first port of call when it comes to supplying developers with acoustic vents. We have built a really effective relationship with the team and this certainly shows with the level of customer service and expertise that we receive every time."

Joel Smith, Nationwide Frame Services (NFS) Ltd

2. The Product: Zehnder Greenwood Acoustic Window Vent - EAR42W

The Zehnder Greenwood Acoustic Ventilation range ensures the required level of ventilation is provided whilst reducing the transfer of noise when dwellings are situated close to busy roads and airports. The range, including the EAR42w window ventilator, ensure high performance standards are attained.

Key Advantages

- ▶ Provides an outstanding $D_{n,e,w}$; 42dB(A) for areas with high external noise transmission, for example those likely in PPG24 categories B, C and D
- ▶ Includes humidity control to regulate supply of fresh air effectively throughout the day in response to changing indoor humidity levels
- ▶ Features manual override control option for occupants, ensuring a comfortable environment
- ▶ Provides upward air deflection to eliminate draughts caused by replacement air

