Ref: A102475 21st November 2019

FAO Andy Croft, Barratt Homes

Low Barugh: Glazing Noise Test Results Covering Note

The sound insulation tests of the Ford Windows double glazed windows including the glazing, frame and, where required, trickle vents which are to be installed at the proposed residential development at Low Barugh with the report issued in tandem along with this covering note (BRE, P1122000-1000 Issue 1, 18th June 2018.

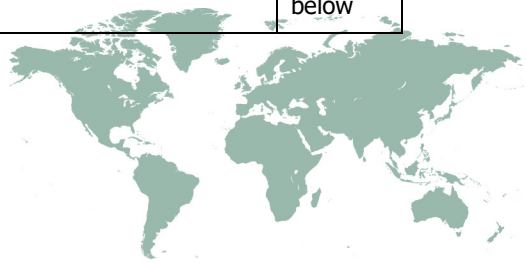
A comparison of the sound insulation performance based on the performance of the glazing outlined in the noise documentation submitted as part of the discharge of the relevant noise conditions is summarised in Tables 1 and 2 below.

Table 1: Sound Insulation Performance Results: 100Hz

Glazing Type	**Previously Stated Glazing Performance (dB Rw)**	**BRE Test Results Performance of Glazed Unit (dB)**	**Comment**	**Meet Criteria**
Enhanced glazing	24.6	26.8	For relevant locations a PIV ventilation system with no trickle vents to be installed	Yes
Standard glazing and trickle vent	23	24.2	Trickle vent in open position	Yes

Table 2: Sound Insulation Performance Results: 'Overall' R_w

Glazing Type	**Previously Stated Glazing Performance (dB R_w)**	**BRE Test Results Performance of Glazed (dB)**	**Comment**	**Meet Criteria**
Enhanced glazing	46	44	For relevant locations a PIV ventilation system with no trickle vents to be installed	Yes* See below
Standard glazing and trickle vent	37	33	Trickle vent in open position	Yes* See below



*The principle consideration at planning stage related to the required sound insulation performance at 100Hz. With regard to the relevant $L_{Aeq,16hour}$, $L_{Aeq,8hour}$ and L_{Amax} criteria (outlined in Noise Assessment for Discharge of Conditions 12 & 13 (Planning Reference 2015/0891) and 23 (Planning Reference 2013/0280), WYG, September 2017) there was significant headroom when comparing predicted internal noise levels with the relevant daytime and night-time criteria. Whilst there is a slightly lower performance when comparing the test results (which include the composite sound insulation performance of the glazing, frame and, for the standard unit, trickle vent) with previously stated glazing specifications, a significant headroom with the relevant criteria remains. Therefore, the effectiveness of the sound insulation performance and conclusions of the assessment undertaken remain valid.

For and on Behalf of
WYG Environment Planning Transport Limited

Sam Moran
Associate

Appendix A – Test Report