From: emily.drake-julnes@adur-worthing.gov.uk on behalf of Support Planning <support.planning@adur-worthing.gov.uk>
Sent: 20 May 2024 13:20:57 UTC+01:00
To: "Emily Drake-Julnes" <emily.drake-julnes@adur-worthing.gov.uk>
Subject: Fwd: AWDM/0395/24: Former Civic CEntre Site

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From: **Michael Lavender** <michael.lavender@adur-worthing.gov.uk>
Date: Fri, 17 May 2024 at 09:56
Subject: AWDM/0395/24: Former Civic CEntre Site
To: Stephen Cantwell <stephen.cantwell@adur-worthing.gov.uk>

Hi Stephen,

I have looked at the overheating assessment and excuse me if I have missed something but the acoustic report for this development requires windows to be closed on the units facing Brighton Road.

> 6.12 Internal noise levels should be considered in the context of room ventilation and overheating requirements. As the sound reduction performance requirements are greater than 10dB, the windows will need to be closed to achieve the internal noise criteria.
>
> 6.13 Therefore, an alternative form of ventilation and/or cooling will be required so that occupants can retain access to fresh air and retain thermal comfort without compromising their noise climate. The ventilation and/or cooling system chosen should be designed so that it does not compromise the sound insulation performance of the building fabric.

Yet the overheating assessment has assumed windows will be open apart from two units.

> This has taken into account the acoustic requirements outlined in Phlorum's report (designated as 9168 Former Adur CC Shoreham DoW Mitigation NoiseRep_dft2). The requirements outlined require the West facing fenestration on the first floor to be closed during night-time hours due to noise emanating from Duke of Wellington Public House. No noise requirements are present during day-time hours. Applicable units have been modelled with fully opening windows operating half the time (day-time). Two units, namely A-01-06 and A-01-13, have been modelled with an air change rate which is to be met through the mechanical ventilation (MV) system or equivalent cooling load.

With regards to the Western Facade, DoW side, they are assuming windows are open during the day time but closed at night. The music at the DoW finishes at 11pm when night time starts. The early evening when music is played is day time. They are modelling the windows open when the music is playing after the developer has gone to the expense of upgrading the windows to keep the music noise out.

B-T58-F05	B-05-16	Type 58	Floor 05	Core B3	Yes	Windows Fully Open	Slight	Compliant

1. Per noise report (9168 Former Adur CC Shoreham DoW Mitigation NoiseRep_dft2) section 8.6, daytime noise levels are within acceptable ranges for all tested scenarios and windows can be considered open during daytime hours. Noise consideration is considered on first floor west-facing fenestration at night in accordance with the study. This has been modelled as windows being open half the time (daytime) and allowance for cross-ventilation in accordance with geometric and the aforementioned acoustic considerations.

ADO assumes that if internal noise levels exceed 40dB(A) Leq at night or maximum internal noise levels exceed 55dB(A), then windows will be closed. The acoustic report measured facade levels of 60dB(A) at night equating to 51dB(A) inside if we use the 9dB(A) outside to inside reduction quoted in ADO. The facade's nighttime maximum level is 77dB(A) , equating to 68dB(A) inside. You cannot model overheating with the windows open on these South facing properties with the windows open. The internal noise levels will be too high.

The overheating assessment has to be conducted to reflect how the flats have been designed to control noise. I would suggest that those properties that have had MVHR fitted because of external noise levels should be modelled with windows closed.

Michael Lavender
Senior Environmental Health Officer, Public Health & Regulation
01273 263343
Adur & Worthing Councils
Worthing Town Hall, Chapel Road, Worthing, West Sussex, BN11 1HA
Environmental Health



