From: Hannah Powell <hannah.powell@adur-worthing.gov.uk> on behalf of Hannah Powell
Sent: 20 June 2022 11:17
To: Peter Barnett
Cc: J T
Subject: Re: Fw: Fw: Fw: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham

Flag Status: Flagged

Dear Peter
I am now satisfied with the recommendations provided within the amended Environmental Noise Assessment (RP 220610 dated 17.06.22). If permission is granted for this development I would recommend the following conditions:

The development hereby permitted shall be carried out in full accordance with the recommendations of the Environmental Noise Assessment (RP 220610 dated 17.06.22) and all works which form part of the approved scheme shall be completed before the permitted dwelling is occupied. Following completion of the scheme and prior to occupation, a test shall be undertaken to demonstrate that the attenuation measures proposed in the scheme are effective and protect the residential unit from noise.

The noise level of any future external plant installed at this site should comply with the plant noise emission limits specified in section 6.3 of the Environmental Noise Assessment (RP 220610 dated 17.06.22). A test to demonstrate compliance with the scheme shall be undertaken within one month of the scheme being implemented. All plant shall be maintained in accordance with manufacturers guidance and any future plant shall also meet the specified levels within the approved scheme.

Kind regards
Hannah Powell

On Fri, 17 Jun 2022 at 17:08, J T <e7surveying@outlook.com> wrote:

> Hi Hannah,
>
> Please see attached amended reports and notes below from Mach acoustics.
>
> Thank you Hannah, We appreciate you working with us to achieve this resolution in reasonable time.
>
> Please let me know if you require any final changes to the attached.
>
> Hope you have a fab weekend.
>
> Kind Regards
>
> Jak Trude

07454 871245
e7surveying@outlook.com

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From: Josh Childs <josh@Machacoustics.com>
Sent: 17 June 2022 15:46
To: J T <e7surveying@outlook.com>
Subject: RE: Fw: Fw: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham

Hi Jak,

Please attached the revised Environmental Noise and Energy Statement reports, to reflect the changes requested by the local authority.

A few notes;

- G-value changed to 0.5, and a centralised MEV system included in new energy statement – we have based the MEV system on a Vent Axia MVDC-MS-A
- The g-value change reduced the overall performance, so we had to change the u-values of the windows to remedy this – Doors now have a u-value of 1.0, and windows have a u-value of 1.2.

As discussed, we'd like to ask for some additional fee's to cover the time needed to revise the reports as well as the additional correspondence. We'd like to propose **£350+VAT** for this. If this is acceptable I'd be grateful if you could confirm over email.

Have a lovely weekend,

Kind Regards,

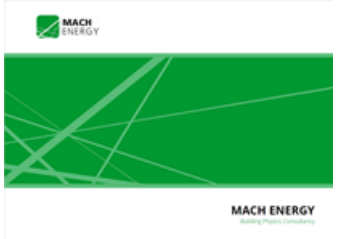
Josh Childs | Associate Director

MACH GROUP

MACH Group | Bristol 3rd Floor, 1 York Court, Upper York Street, Bristol, BS2 8QF 07947 326650 www.machgr









From: J T <e7surveying@outlook.com>
Sent: 16 June 2022 10:35
To: Josh Childs <josh@Machacoustics.com>
Subject: Fw: Fw: Fw: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham

HI Josh,

Please see below from Hannah.

Cheers
Jak

-------- Original message --------
From: Hannah Powell <hannah.powell@adur-worthing.gov.uk>
Date: Thu, 16 Jun 2022, 09:54
To: J T <e7surveying@outlook.com>
Cc: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: Re: Fw: Fw: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham
Dear Jak
Thank you for your email.
I have looked over the Sustainability and Energy Statement submitted with your application and note that you are only proposing intermittent extract fans (apologies for not picking up on this sooner, I had assumed that continuous extract ventilation had been proposed). If the extract ventilation can be upgraded to continuous mechanical extract ventilation (with a boost function) then I would be satisfied with any of these passive through wall vents (which achieve the appropriate level of attenuation).
Kind regards
Hannah Powell

On Wed, 15 Jun 2022 at 11:58, J T <e7surveying@outlook.com> wrote:

> Hi Hannah,
>
> Thanks for your email and for your recommendation on how we can overcome the noise monitoring issues.
>
> Please see response from Mach Acoustics, below.
>
> Josh has researched and recommended a fan unit, which he believes will be suitable.
>
> Can you confirm if we need to specify a specific fan and if so whether Joshs suggested unit will suffice.
>
> If not we can seek advice from our M&E team and come back to you with more options.
>
> We have instructed Mach to act on your recommendation and they will be able to revise and reissue all applicable reports once fan spec has been agreed.
>
> Look forward yo hearing from you.
>
> Kind Regards
>
> Jak Trude

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e7surveying@outlook.com

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-------- Original message --------
From: Josh Childs <josh@Machacoustics.com>
Date: Wed, 15 Jun 2022, 11:47
To: J T <e7surveying@outlook.com>
Subject: RE: Fw: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham
Hi Jak,

Thanks for forwarding this over. As this discussed this generally this looks like a reasonable step forward; here are my comments;

- Glazing g-value below 0.5 – this is common for homes in the south, so nothing particularly onerous. This will have a small impact on the Part L performance (our energy statement used a value of 0.63), but nothing too significant. Low g-value glazing does tend to be a little more expensive as well.

- Additional acoustic ventilation – this is not unreasonable, however its left a little open as there isn't a specific requirement for ventilation, e.g. what is an acceptable amount of 'extra ventilation'. I would recommend going back to them to confirm what extra ventilation you plan on installing and getting them to sign it off.

- In regards to suitable vents, you could install a wall vent such as this in each occupied room

https://rts.vents.co.uk/blog/products/acoustic-aircore-and-airliner-sets-background/

Because we now have more holes in the façade, we need to increase the performance spec of the trickle vent. Therefore, all window and wall vents on the façade should achieve a performance of **39 dB $D_{n,e,w}$** when the vent is open. The majority of the vents in the link above achieve this.

Kind Regards,

Josh Childs | Associate Director

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Acoustic Design I Thermal Design I Daylighting I Natural Ventilation I SAP / EPC I Sound / Air Testing
MACH Acoustics Ltd - Company registration number 04940319. VAT registration number GB 822146065

From: J T <e7surveying@outlook.com>
Sent: 14 June 2022 12:47
To: Josh Childs <josh@Machacoustics.com>
Subject: Fw: Fw: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham

HI Josh,

Please see below response from Hannah Powell in EH.

She seems to be offering a compromise which if achievable and reasonable, we are happy to accommodate - subject to your advice to do so.

Can you confirm whether these recommendations are achievable, approximate time frame to revise the report and your cost.

Look forward to hearing from you.

Cheers
Jak

-------- Original message --------
From: Hannah Powell <hannah.powell@adur-worthing.gov.uk>
Date: Tue, 14 Jun 2022, 12:37
To: J T <e7surveying@outlook.com>
Cc: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: Re: Fw: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham
Dera Jak
Thank you for providing this response and for forwarding the calculated daytime levels while the garage is not operating.

Your consultant references the use of the Environmental Noise Guidelines for the European Region (WHO 2018). It should be noted that the levels specified in the 2018 document are external levels and the addition of penalties are required to measured noise levels during the evening (+5dB penalty) and night time noise levels (+10dB penalty) to account for people's extra sensitivity to noise during these times (Section 2.2.2 of the ENVIRONMENTAL NOISE GUIDELINES for the European Region 2018). The noise levels measured at this site would exceed these guideline levels.

The 1999 WHO Community Guideline levels for non-specific noise sources remain valid.

The use of the noise standards and the approach to the relaxation of guideline levels specified within the AVO guide 2020 are currently under some scrutiny as this approach does not correlate to the approach

and guideline levels specified in ProPG (which are based on guidelines issued by WHO). Although the AVO guide provides helpful guidance on the importance of early design considerations to minimise overheating, currently these noise standards are not generally relied upon by this authority.

The internal noise levels are likely to be above the relaxed internal noise levels specified in BS8233:2014, although I accept they are only likely to be marginally above these levels.

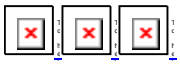
To move forward, consideration needs to be given to increasing the ventilation within the habitable rooms and limiting the solar gains. I would suggest the following would be proportionate for this site:

- The glazing G value of residential windows should be below 0.5.
- Increase background ventilation by using acoustically treated passive through wall ventilators at high level in all habitable rooms (in addition to the proposed trickle vents).

Please could you confirm that you will be prepared to include the above within your design and provide details/specification. Please ask your acoustic consultant to recommend an appropriate acoustically treated passive through wall vent which will provide sufficient noise attenuation.

Regards
--

Hannah Powell
Environmental Health Technician, Adur & Worthing Councils
Phone: 01273 263357
Email: hannah.powell@adur-worthing.gov.uk
Website: http://www.adur-worthing.gov.uk/
Address: Public Health & Regulation, Worthing Town Hall, Chapel Road, Worthing, West Sussex, BN11 1HA



On Mon, 13 Jun 2022 at 18:45, J T <e7surveying@outlook.com> wrote:

> Dear Hannah,
>
> Thanks for your response and further to your email, I have consulted with Mach acoustics have responded - see below.
>
> Noise monitoring is not something i/we as a firm normally get involved with. We outsource to experts like Mach acoustics who have served us very well in the past.
>
> Having consulted with Mach at length today, to try and form a better understand of this issue, we contend as follows:
>
> **BS8233:2014**
>
> You rightly say that according to *BS 8233: 2014: Guidance on Sound Insulation and Noise Reduction for Buildings (BS 8233:2014),* the noise levels at the application site will exceed permissible levels.
>
> BS 8233 states:
>
> *"an internal noise level of 35 dB LAeq,T is appropriate for resting conditions within living rooms and bedrooms".*
>
> And

"an internal noise level of 30 dB LAeq,T is recommended within bedrooms"

Therefore, the maximum permissible noise during the daytime is 40dB and 35dB during the night-time including the 5dB relaxation / tolerance

According to Mach Acoustics report and data recorded during their recent 72hr monitoring, the proposed development will achieve 45dB during the day and 38dB during the night.

Therefore, according to BS8233, the proposed development will exceed permissible levels by 5dB during the day and 3dB during the night time.

WHO: Guidelines for Community Noise

BS 8233 was introduced in 2014, and the noise limits were based on *World Health Organisation (WHO): 1999: Guidelines for Community Noise.*

Who: 1999, was superseded in 2018 by WHO: 2018 which states:

"For average noise exposure, the GDG strongly recommends reducing noise levels produced by road traffic below 53 decibels (dB) Lden, as road traffic noise above this level is associated with adverse health effects.

For night noise exposure, the GDG strongly recommends reducing noise levels produced by road traffic during night time below 45 dB Lnight, as night-time road traffic noise above this level is associated with adverse effects on sleep"

The BS8233 relies on 23 year old limitations set in the 1999: WHO regulations, which have since been superseded in by WHO: 2018 (4 years ago), and limitations were increased from 35 / 40dB, to 45 / 53dB, respectively.

According to WHO 2018 targets, the proposed development will achieve the necessary standard.

Approved Document O: Schedule 1 to the Building Regulations 2010 (2021 Edition)

Approved Document O states in Section 3 under subheading "*Noise":*

"In locations where external noise may be an issue (for example, where the local planning authority considered external noise to be an issue at the planning stage), the overheating mitigation strategy should take account of the likelihood that windows will be closed during sleeping hours (11pm to 7am).

Windows are likely to be closed during sleeping hours if noise within bedrooms exceeds the following limits. a. 40dB LAeq,T, averaged over 8 hours (between 11pm and 7am). b. 55dB LAFmax, more than 10 times a night (between 11pm and 7am).

According to Document O, the proposed development will achieve the necessary standard.

AVO Guide 2020

AVO guide states in Section 3 under subheading *Internal ambient noise due to Transport Noise Sources:*

"It is suggested here that the desirable internal noise standards within Table 4 of BS 8233:2014 should be achieved when providing adequate ventilation as defined by ADF whole dwelling ventilation. However, it is considered reasonable to allow higher levels of internal ambient noise from transport sources when higher rates of ventilation are required in relation to the overheating condition."

And Item 3.24 states:

"For the purposes of the Level 1 assessment, it is assumed that a partially open window will provide an outsideto-inside level difference of 13 dB. This level difference is considered representative of typical domestic rooms with simple façade openings of around 2% of the floor area. Refer to Table B-4 and Appendix C for further information"

According to AVO guide, the proposed development will achieve the necessary standard.

Summary

Based on BS8233 (2014) & WHO (1999), the proposed development will not achieve the permissible standard by 3dB.

But based on Approved Document O (2021), WHO (2018) and AVO Guide (2020), the scheme does achieve the permissible standard by at least 2dB.

Potential solutions:

1: We adopt the most recent standards i.e. AVO 2020, WHO 2018, Document O (2021), and the scheme will comply.

2: You ask that we meet the BS8233 2014 & WHO 1999 standards, and the scheme will not comply.

3: You impose a condition, that noise monitoring must be carried out prior to occupation to show that permissible noise levels are being achieved in the respective mews units - assuming that some units may be more exposed to noise than others as you move along the terrace.

Option 2 will involve us instructing Mach acoustics to carry out further assessments, and to amend their report / design to achieve the 1999 standard.

Trying to achieve these 1999 standard in 2022 world seems to be the problem here, and not necessarily the offer, Mach's report or any of the environmental data / factors at play in this case.

We hope item 2 will not be necessary, and that approved document O or AVO guide standard(s) can be adopted in this case, so we can consolidate this process for our client without further cost and delay.

That said, we are able and willing to meet whatever standard you deem justifiable and necessary for this scheme to comply.

Thank you for your continued support with this matter.

We await your valued response in due course.

Kind Regards

Jak Trude

07454 871245
e7surveying@outlook.com

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From: Josh Childs <josh@Machacoustics.com>
Sent: 13 June 2022 16:02
To: J T <e7surveying@outlook.com>
Subject: RE: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham

Hi Jak,

Here's a response to the most recent comments;

> *In regards to recent guidance on suitable internal noise levels when ventilating against overheating in the summer months, noise level limits are provided with Approved Document O, and the 'Acoustics, Ventilation and Overheating Guide' (AVO Guide).*
>
> *Approved Document O, which is the most recent, provides night time noise ingress criteria at 10dB above BS 8233 values (40dBL_{Aeq}), and does not specify a target for daytime noise levels.*
>
> *The AVO Guide provides a sliding internal noise limit based upon how often a dwelling will overheat. The range of limits provided are from 40-50dBL_{Aeq} during the day (5-15dB above BS8233) and 35-42dBL_{Aeq} at night (5-12dB above BS8233). Using the GHA Overheating Risk Tool to carry out an initial risk assessment on the scheme, it is seen that there is a 'medium' risk of overheating in the scheme, and as such the appropriate internal noise levels for the scheme are 45dBL_{Aeq} in the day and 38dBL_{Aeq} at night.*
>
> *As requested, the noise levels for the daytime levels outside of the garage opening times has been calculated, as is shown in the table below. Noise levels at position 1 are shown to decrease from 58 to 54dB during the day, which position 2 results remain the same.*

Time Period	Sound Pressure Level, dB (Octave Band Centre Frequency, Hz)							
	63	125	250	500	1000	2000	4000	dB(A)
May 27th - 30th 2022 – Position F1								
L_{Aeq},16hour (day)	56	53	51	53	53	51	51	58
L_{Aeq},8hour (night)	48	46	42	50	44	43	43	50
L_{Aeq}, (garage operational hours)	55	54	52	53	54	53	52	59
L_{Aeq}, (outside garage hours)	55	53	48	51	51	47	45	54
L_{Amax} (10th highest)	56	54	53	55	54	53	54	60
May 27th - 30th 2022 – Position F2								
L_{Aeq},16hour (day)	32	40	43	48	51	49	47	55
L_{Aeq},8hour (night)	26	35	38	39	45	45	46	50
L_{Aeq}, (garage operational hours)	33	41	44	46	50	49	49	55
L_{Aeq}, (outside garage hours)	32	39	43	49	52	47	46	55
L_{Amax} (10th highest)	33	41	44	47	50	50	49	56

By assuming a sound reduction across the facade of 13dB for an open window, the internal noise levels are shown to be 42dBL_{Aeq} during the day, and 37dBL_{Aeq} at night. This is within the acceptable guidance of both AVO Guide and Approved Document O.

If the guidance from the AVO Guide and Approved Document O will not be accepted for this scheme, in which BS8233 + 5dB is required, then the internal levels will be 2dB above the criteria during the day, and 2dB above at night.

This is not considered to be a significant difference, and a more holistic approach should be considered, in that a 2dB difference may warrant that a low energy natural ventilation solution may be more appropriate than relying on energy dependent mechanical ventilation system.

Furthermore the sound reduction of 13dB for an open window is a large approximation, and depends on the opening type, open area and direction of noise in relation to the façade. As such a 2dB difference in performance is a minor difference when considering the overall variation in window performance.

Fee for additional work

As discussed, we can review this in more detail to demonstrate compliance by carrying out overheating modelling and using the data to inform the acoustic design.

In regards to the combined overheating and acoustics assessment, I would propose the following fee;

Work Element	Fee
Overheating Assessment & Report	£1,625+VAT
Acoustic Noise Break-In Assessment & Report Update	£650+VAT
Total	**£2,275+VAT**

Kind Regards,

Josh Childs | Associate Director

MACH GROUP

MACH Group | Bristol 3rd Floor, 1 York Court, Upper York Street, Bristol, BS2 8QF 07947 326650 www.mach









Acoustic Design I Thermal Design I Daylighting I Natural Ventilation I SAP / EPC I Sound / Air Testing

MACH Acoustics Ltd - Company registration number 04940319. VAT registration number GB 822146065

From: J T <e7surveying@outlook.com>
Sent: 13 June 2022 12:05
To: Josh Childs <josh@Machacoustics.com>
Subject: Fw: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham

Hi Josh,

Please see further comments from Hannah Powell in response to your latest noise report.

Can you give me a call to discuss further please.

Kind Regards

Jak Trude

07454 871245
e7surveying@outlook.com

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-------- Original message --------
From: Hannah Powell <hannah.powell@adur-worthing.gov.uk>
Date: Mon, 13 Jun 2022, 11:48
To: J T <e7surveying@outlook.com>
Cc: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: Re: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham
Dear Jak
Thank you for providing this updated Environmental Noise Assessment (RP 220610 dated 10.6.22) with amended meteorological information.

I requested the noise data to be separated into the times when the garage was operating and when it was not to obtain a clearer picture of noise levels across the site in the absence of this noise source, as will be experienced by future occupiers.

Although noise levels have been provided whilst the garage was operating, daytime noise levels have not been provided when it is not operating. So I will base my comments on the LAeq 16hrs which has been provided (it is noted that these levels do still include garage noise).

Trickle vents have been provided for background ventilation and section 5.4.1 of the Environmental Noise Assessment confirms that openable windows will be used to satisfy purge/overheating ventilation requirements. However, open windows will result in noise levels exceeding guideline levels by approximately 10dBA during the daytime and 7dBA during the night.

Both BS8233:2014 and ProPG specify that where a development is considered necessary and desirable internal LAeq target levels may be relaxed by up to 5dB and reasonable internal conditions still achieved. However, ProPG Fig 2, Note 7 continues; *The more often internal LAeq levels start to exceed the internal LAeq target levels by more than 5 dB, the more that most people are likely to regard them as "unreasonable". Where such exceedances are predicted, applicants should be required to show how the relevant number of rooms affected has been kept to a minimum.*

ProPG Section 2.72 h) specifies that *Reasonable steps should be taken to minimise overheating during summer months through good design. Where openable windows / ventilators are proposed to mitigate overheating and where the internal noise level guidelines are likely to be exceeded when they are open a more detailed assessment of the potential impact on occupants during the overheating condition should be provided in the ADS.*

When windows are open for thermal comfort we would accept an exceedance of internal noise levels of up to 5dB above guideline levels. However, even for low risk sites, when these noise levels are exceeded, details of how the adverse impacts of noise will be mitigated and minimised should be provided (ProPG section 2.72 k).

Regards
Hannah Powell

On Fri, 10 Jun 2022 at 17:16, J T <e7surveying@outlook.com> wrote:
> Dear Hannah,

Please find attached amended report and comments below from Mach Acoustics as promised.

The findings from their 24hr and subsequent 72hr monitoring are consistent - this is a very quiet site, there is a minimal increase in noise levels when the garage is open as the separated data now shows, and there are no significant noise sources within audible distance from the application site.

With that being the case we hope the attached now satisfies any reservations you may have had.

Thanks for making time to respond while you were on AL and for providing such clear and consistent feedback in reasonable time.

We may not agree with everything we are told in every case / scenario, but when it comes to justified reservations and clear expectations, we will always do whatever we can to accommodate and hope our recent actions in responding to your concerns reflects that.

Look forward to hearing from you in due course.

Kind Regards

Jak Trude

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From: Josh Childs <josh@Machacoustics.com>
Sent: 10 June 2022 10:36
To: J T <e7surveying@outlook.com>
Cc: Jason Bradshaw <jason@machacoustics.com>
Subject: RE: Fw: AWDM/0607/22 - Garage Compound Rear Of Kingston Broadway, Shoreham

Hi Jak,

Apologies for not getting this to you yesterday as promised, however please see attached the revised report, updated as per comments from the local authority.

A couple of notes on the update;

- We've added the noise levels for the garage when operational, as requested. There is a minimal increase in noise level during this period, which is typical for the time of day (rush hour traffic in the morning etc). Therefore the garage is not considered to be a significant noise source during the survey.

- I've updated the meteorological conditions in Appendix B. There must have been an error on our side on the previous issue, as when we reviewed the weather data again the wind speed was all within the 5m/s range. I've included screenshots from the weather data source to show that the numbers are correct now.

Kind Regards,

Josh Childs | Associate Director

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--

Hannah Powell
Environmental Health Technician, Adur & Worthing Councils
Phone: 01273 263357
Email: hannah.powell@adur-worthing.gov.uk
Website: http://www.adur-worthing.gov.uk/
Address: Public Health & Regulation, Worthing Town Hall, Chapel Road, Worthing, West Sussex, BN11 1HA

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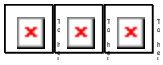
Hannah Powell
Environmental Health Technician, Adur & Worthing Councils
Phone: 01273 263357
Email: hannah.powell@adur-worthing.gov.uk
Website: http://www.adur-worthing.gov.uk/
Address: Public Health & Regulation, Worthing Town Hall, Chapel Road, Worthing, West Sussex, BN11 1HA



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Hannah Powell
Environmental Health Technician, Adur & Worthing Councils
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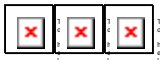
Website: http://www.adur-worthing.gov.uk/
Address: Public Health & Regulation, Worthing Town Hall, Chapel Road, Worthing, West Sussex, BN11 1HA



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