

Additional Information - Applicant

From: glennwhite@brewmonster.co.uk <glennwhite@brewmonster.co.uk>
Sent: Tuesday, September 12, 2023 3:31 PM
To: Morgan, Lee <MORGAL16@CAERPHILLY.GOV.UK>
Subject: Brew Monster Licensing Application
Importance: High

Hi Lee

Please find attached the further information requested for the next Licencing hearing

Any questions please let me know

Thanks

Glenn
Director
Brew Monster Group
Tel: [REDACTED]
[Email: glennwhite@brewmonster.co.uk](mailto:glennwhite@brewmonster.co.uk)



On 10 Aug 2023, at 4:18 pm, Morgan, Lee <MORGAL16@caerphilly.gov.uk> wrote:

Good Afternoon Glenn

Nothing received from legal services so far.

Kind Regards

Lee

-----Original Message-----

From: glennwhite@brewmonster.co.uk <glennwhite@brewmonster.co.uk>

Sent: Thursday, August 10, 2023 3:58 PM

To: Morgan, Lee <MORGAL16@caerphilly.gov.uk>

Subject:

Hi Lee

Has the committee made a decision?

Cheers

Glenn

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Mae'r e-bost hwn ac unrhyw ffeiliau sy'n atodol yn gyfrinachol a dim ond ar gyfer defnydd yr unigolyn neu'r sefydliad y cyfeiriwyd atynt. Os ydych wedi derbyn yr e-bost hwn ar gam rhowch wybod i reolwr eich system. Nodwch fod unrhyw sylwadau neu farn o fewn testun yr e-bost yw sylwadau a barn yr awdur yn unig ac nid yn angenrheidiol yn cynrychioli barn Cyngor Bwrdeistref Sirol Caerffili. I orffen, dylai'r person sy'n derbyn yr e-bost sicrhau nad oes firws ynghlwm nac mewn unrhyw ddogfen atodol i'r e-bost. Nid yw'r Cyngor yn derbyn unrhyw gyfrifoldeb am unrhyw ddifrod achoswyd gan unrhyw firws sy'n cael ei drosglwyddo gan yr e-bost hwn. Rydym yn croesawu gohebiaeth yn Gymraeg, Saesneg neu'n ddwyieithog (yn unol â'ch dewis), ac mewn ieithoedd a fformatau eraill. Cewch ymateb yn unol â'ch dewis iaith os nodwch hynny i ni, ac ni fydd cyfathrebu â ni yn Gymraeg yn arwain at oedi. This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager. Please note that any views or opinions presented in this email are solely those of the author and do not necessarily represent those of Caerphilly County Borough Council. Finally, the recipient should check this email and any attachments for the presence of viruses. The Council

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Further Information in Support of Brew Monster's Application to Vary Premises Licence at 1 Lon Y Twyn

Purpose of this Document

Following the previous licensing hearing on 9th August 2023, it was the view of the Sub-Committee that it was unable to consider:

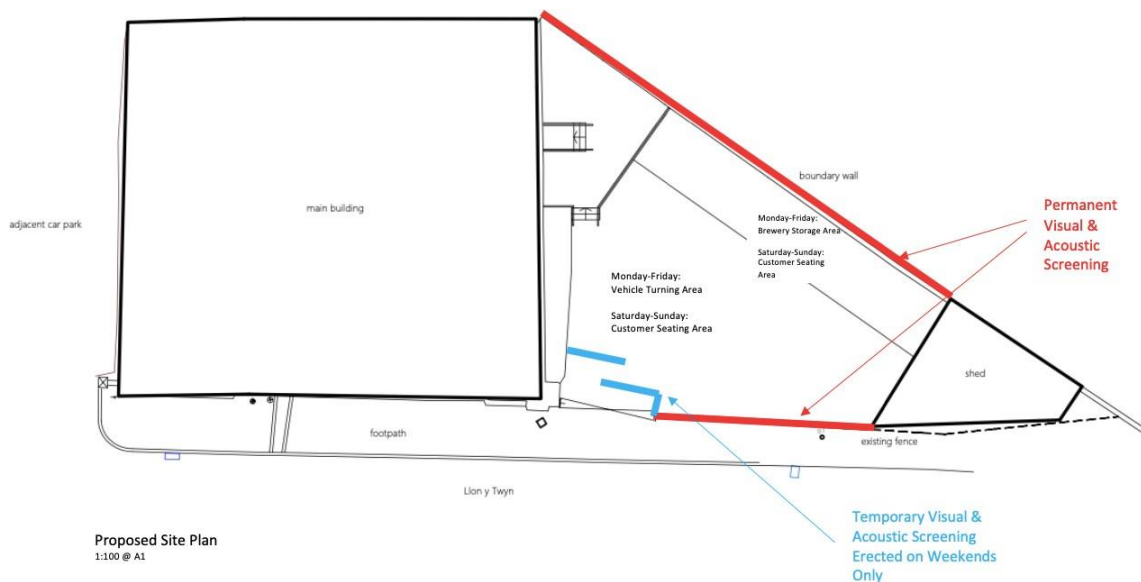
- The effectiveness of the proposed acoustic screening that we intend to install around the brewery yard
- The likelihood that we would be permitted to install the screening

The Sub-Committee therefore requested further information relating to the proposed screening, covering the following areas:

- The materials to be used
- The manufacturer of said materials
- Information regarding its effectiveness
- An update on the status of the planning application

Brewery Yard Layout and Location of Proposed Screening

The following diagram shows the general layout of the brewery yard and the location of noise reduction measures.



Note that both the main brewery building and the shed are heavily insulated concrete structures that require no further acoustic screening as they are already extremely effective at blocking any sound.

The intention of the proposed screening in combination with the existing buildings is intended to produce a complete ring around the brewery yard that will prevent the escape of any sound when the yard is in use by patrons.

Permanent screening is proposed to be incorporated into the North Eastern and Southern boundaries of the site. The North Eastern boundary currently comprises a solid block wall and wood cladding (that has been offset by 50mm from the block wall to create an air gap). An additional layer of acoustic insulation membrane is proposed to be incorporated to further reduce any noise that could pass through the wall. Note that the wall is approx. 3m in height, well above head height of any person in the yard, particularly when seated.

We intend to erect a similar solid wall on the Southern boundary, inside (behind) the existing wooden fence. As a result there will be no noticeable change in appearance of the site from outside, but there will be increased privacy for both occupants of the brewery yard and local residents and pedestrians walking along Lon Y Twyn. Incorporated into the new wall will be multiple layers of timber sheets (plywood, OSB or similar), and acoustic insulation membrane, to reduce noise. The wall will be of the same height as the existing wooden fence, which is approx. 3m in height, well above head height of any person in the yard, particularly when seated.

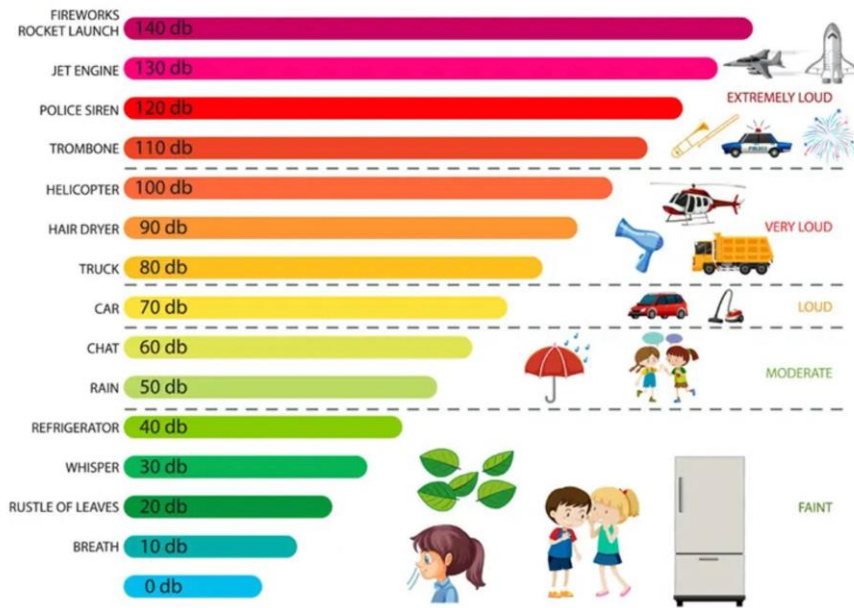
As the gate will be required to be open during times that the brewery yard is in use, creating opportunity for noise to escape, we intend to create temporary screens, similar to those described above (solid timber sheeting and acoustic insulation membrane) that can be moved into place at weekends and then removed after the weekend. This ensures that the yard can continue to be used exactly as it is currently for brewery operations during weekdays when the brewery is operating.

To enable patrons to enter and exit the brewery yard, it is necessary to have a gap in the screening. We have proposed 2 overlapping sections (shown in blue) which prevents any direct line of sight between the brewery yard and the surrounding areas (in particular residential properties) through which sound could potentially escape.

Information on Sound and Sound-Proofing

The following table illustrates the dB rating of various sources of sound. The illustration shows humans speaking to be approx. 60dB and is described as Moderate.

DECIBEL SCALE



The following information has been taken from the following website

<https://www.ikoustic.co.uk/wall-soundproofing/wall-soundproofing-science/>

The following extracts shows the 2 main methods of soundproofing. We are choosing to adopt the Mass Addition method for our brewery yard, as the materials used in this method are more suited to external use where they will be exposed to the elements. This method is also more suited to the reduction of airborne sound which is most relevant for the use of the brewery yard.

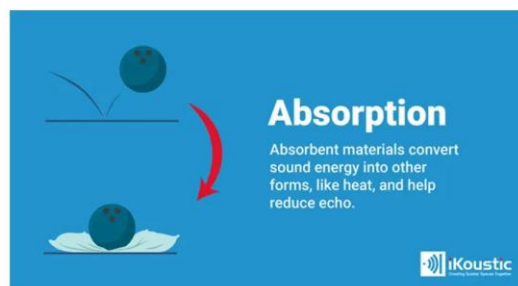
Mass addition

A method soundproofing that uses materials of high mass to reflect airborne noise within a space. This prevents sound escaping a space or entering a space.



Absorption

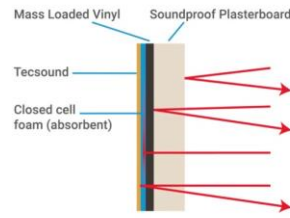
A method of sound control which uses materials with open structures, such as foams and loose woven fibres, to damp sound. This reduces the reflection of sound waves within a space which would lead to reverberation and the amplification of sound.



How to reduce airborne noise

Airborne is reduced by using materials of high mass to insulate a space. This works as the sound vibrations in the air don't carry enough energy pass through the material, as it's too dense to make vibrate. Instead, they are reflected away, this works to keep sound inside a space and prevent sound entering the space, too.

Materials of high mass can be added to walls, ceilings and floors and are often used to reduce 'noisy neighbour' disturbances.



The website recommends the use of its Tecsound product, which is what we intend to use. There are 3 variants of the product available and it is our intention to use the highest specification product, Tecsound S100 that offers the highest level of sound reduction (31 dB).

Comparing different types of Tecsound

Product	Thickness	kg/m2	m2 coverage	dB rating
Tecsound S100	5mm	10kg	4.8m2	31 dB*
Tecsound SY70	4mm	7kg	6.16m2	28dB*
Tecsound SY50	2.5mm	5kg	7.38m2	25.2dB*

Important Information

Our products contain a high level of mass. If there are any structural concerns you will want to consult a Structural Engineer to discuss your requirements.

*Our Typical Performance Results and Noise Reduction Guidance are provided to indicate the results that have been achieved in previous tests but are not guaranteed to a specific site as multiple factors can affect this, you can view their variants on our 'Featured Systems' tab.

Detailed Design of the Screening

North Eastern Boundary Wall

Please refer to detailed Cross-Sectional Diagrams of the Boundary Wall in separate document.

The proposed design achieves a total sound reduction of 71 dB. This is based on:

- 40dB reduction from the 100mm thick block wall (reference <https://www.ikoustic.co.uk/wall-soundproofing/wall-soundproofing-science/>)
- 31dB reduction from the Tecsound S100

Note that there will be additional sound reduction effects from the wood cladding erected on the internal (brewery yard side) faces of the walls, and from the external fence that faces onto the public highway (Lon Y Twyn). The cladding/fencing comprises 25mm thick timber lengths with gaps of approx. 10-25mm between each length of timber. This uneven wall face will help to disperse sound waves. As the effect of this is unknown, we have excluded it from the calculated sound reduction noted above.

Furthermore, sound dissipates over distance. Therefore any residual sound that did pass through the acoustic screening and block walls would further dissipate before reaching the residential properties or the areas of their gardens where they may be located. This is particularly pertinent to the property on the Southern side of the brewery yard which is separated from the brewery yard boundary by the public highway (Lon Y Twyn).

Also of relevance is the relative heights of the brewery yard versus the property on the North side. The ground level of the bungalow is at least 1m lower than the ground level of the brewery yard.

To understand the real world impact of the proposed sound-proofing, we recommend that members of the Sub-Committee visit the following link where YouTube can demonstrate the real world effect of different reductions in sound levels.

<https://www.youtube.com/@iKousticSoundproofing/videos>

The videos include a mixture of people speaking and music. As a reminder, we have no intention of playing music in the brewery yard and have not requested this as part of our licence variation. The videos have been created by the manufacturer of the Tecsound membranes that we intend to use.

Technical Information on the Materials to be Used

Please refer to separate document providing technical information on Tecsound S100

Update on Planning Application and Implications for Licensing

To date we have not received a decision from the Planning department, despite our application having been submitted on 8th June 2023, nearly 14 weeks ago. However, we remain confident that the permission to use the brewery yard will be granted.

We would like to point out that our proposed use of the brewery yard requires both planning permission and a variation to our premises licence. Therefore, the variation of the premises licence will only be effective if the planning permission is also granted.

It is reasonable to assume that if the planning permission is granted, it will be conditioned on the proposed acoustic screening being installed prior to the brewery yard being opened to patrons. Therefore, the Sub-Committee can be assured that the brewery yard will only be used in the event that planning permission is granted *and* the proposed acoustic screening is installed.

Tecsound® S100 Product Data

Description: Tecsound S100 is a self-adhesive, visco-elastic membrane used to attenuate airborne noise with fantastic results. It can be applied directly to walls, floors and ceilings as well as applying directly to metal work to significantly reduce vibration within a structure.

Dimensions: 1.2m x 4m x 5mm (4.8m²)

Mass: 10 Kg/m²

Density: 2000 Kg/m³

Thermal Conductivity: 0.037 W/m°C

Temperature Stability: -20°C to 60°C

Compressive Strength: 4.84 Kg/cm²

Tensile Strength: 30 N/cm²

Fire Rating Euroclass C, s2, d2

Features and Benefits: Suitable for reducing both airborne and vibration on a large array of surfaces.

Best used within MuteClip® System between two layers of high density acoustic plasterboard to dampen resonance between boards and to attenuate airborne noise.

Very flexible and adaptable material.

Self-Adhesive backing for easy installation.

Mould moisture and fungus resistant.

Easy to mould into tight spaces.

Performance: Rw = 31 dB Reduction hung as a curtain.
Vibration Dampening

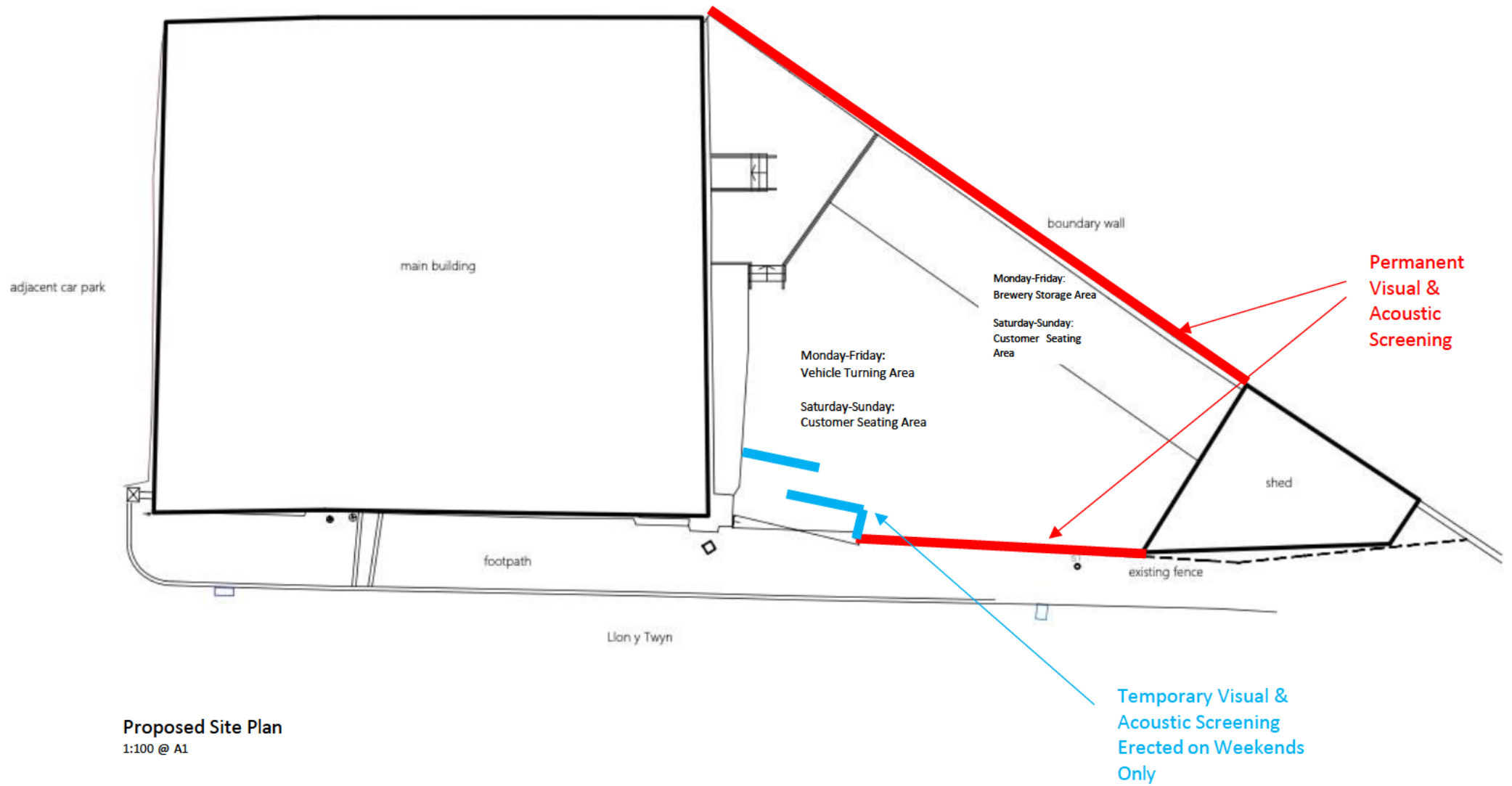


Creating Quieter
Spaces Together



Brew Monster, 1 Lon Y Twyn, Caerphilly, CF83 1NW

Proposed Site Layout Plan

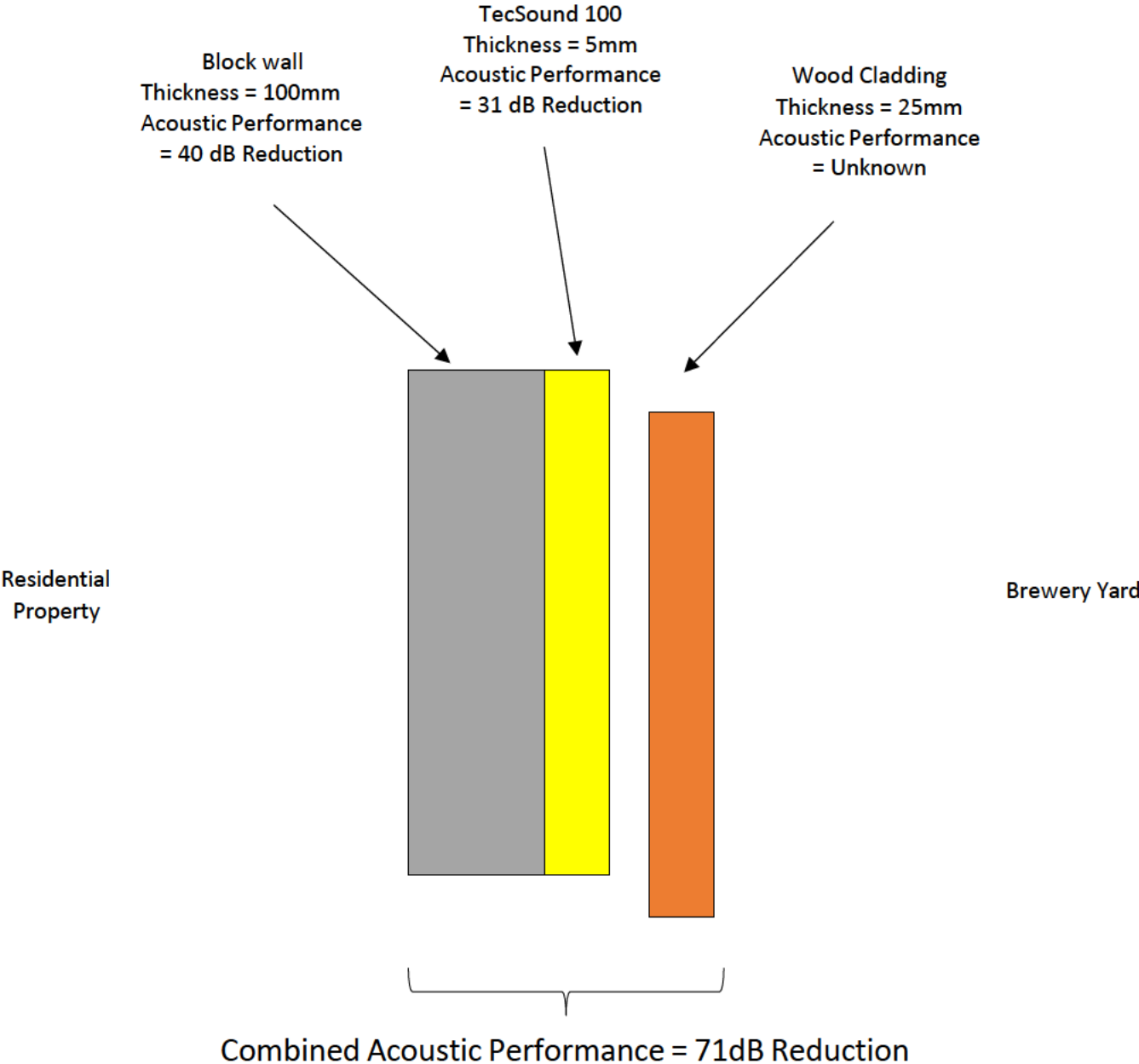


Proposed Site Plan

1:100 @ A1

Detailed Cross-Section of Acoustic Screening – North-Eastern Boundary

Lon Y Twyn, Caerphilly, CF83 1NW



Detailed Cross-Section of Boundary Wall – Southern Boundary

Lon Y Twyn, Caerphilly, CF83 1NW

