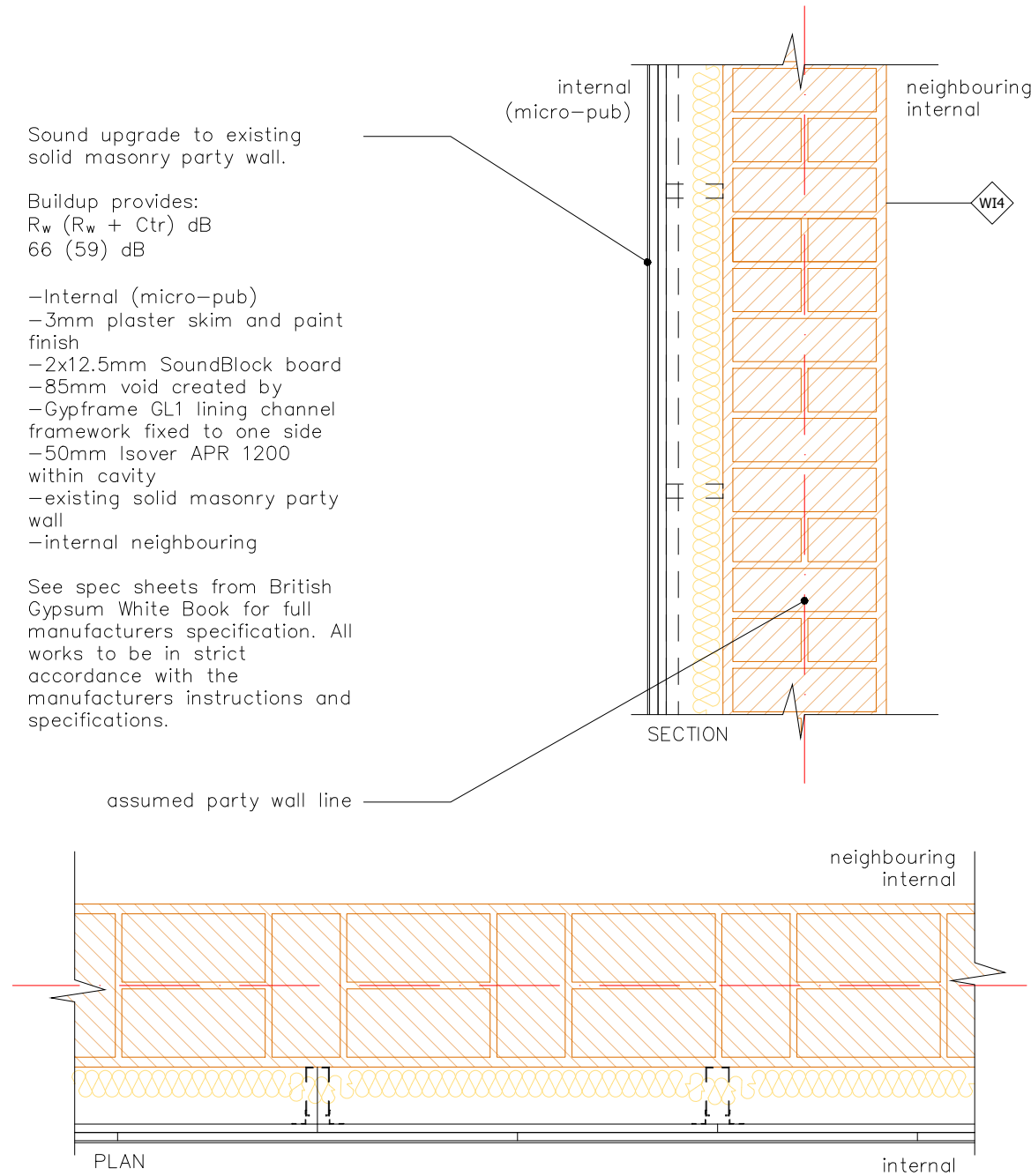


Sound upgrade to existing solid masonry party wall.

Buildup provides:
 R_w ($R_w + Ctr$) dB
 66 (59) dB

- Internal (micro-pub)
- 3mm plaster skim and paint finish
- 2x12.5mm SoundBloc board
- 85mm void created by
- Gyframe GL1 lining channel framework fixed to one side
- 50mm Isover APR 1200 within cavity
- existing solid masonry party wall
- internal neighbouring

See spec sheets from British Gypsum White Book for full manufacturers specification. All works to be in strict accordance with the manufacturers instructions and specifications.



Existing solid masonry wall – party wall / separating wall metal acoustic upgrade sound absorption
 R_w dB = 66(59)

Designer Notes:

For further information see British Gypsum Spec sheets for system B226005 (EN). Further information to the right of this sheet. All works to be in strict accordance with the manufacturers instructions of the specified system. Detail shows an existing solid brickwork wall with plaster to either side of the wall. Existing wall conditions will need to be verified on site prior to specification of a system. BR part E requires a sound absorption of 45dB for a new house separating wall and 43dB for separating walls formed by a material change of use. The drawing above shows a solution better than the required building regulations for when there is existing noise or disturbance from neighbouring properties for a better internal acoustic comfort.

COMBINED ACOUSTIC SPECIFICATION SHEET

(Party Wall Lining + Independent Acoustic Ceiling System)
 Project: 34 High Street, Grimethorpe –Micro Pub
 Purpose: Compliance with Approved Document E & Planning Condition 8

1. ACOUSTIC PARTY WALL SYSTEM – SPECIFICATION (B226005 EN)

System Description:
 Independent acoustic lining comprising Gyframe GL1 Lining Channels fixed to 100mm, 1700 kg/m³ solid blockwork (with 13mm plaster each side), installed on Gyframe GL8 Track, with an 85-125mm cavity containing 50mm Isover APR 1200 Acoustic Partition Roll, and finished with two layers of 12.5mm Gyproc SoundBloc plasterboard.

Components:

- Channels & Track: Gyframe GL1 Lining Channel, GL8 Track
- Brackets: Gyframe GL9 Bracket
- Connector: Gyframe GL3 Channel Connector
- Fixing Strap: Gyframe GFS1
- Insulation: 50mm Isover APR 1200 Acoustic Partition Roll
- Boarding: 2 x 12.5mm Gyproc SoundBloc

Screws:

- Wafer-head drywall screws 13mm (brackets)
- British Gypsum Drywall Screws 25mm (layer 1)
- British Gypsum Drywall Screws 35mm (layer 2)

Sealant: Gyproc Sealant (continuous at all perimeters and air paths)

Installation Requirements:

- Fix GL8 Track to floor and ceiling at max. 600mm centres.
- Install GL1 channels at 600mm centres.
- Position GL9 brackets to maintain cavity depth (85-125mm).
- Stagger board joints; maintain screw distances (±13mm from cut edges, ±10mm from bound edges).
- Seal all perimeter junctions and penetrations.
- Finish using Thistle/ThistlePro plaster or Gyproc jointing products.

Performance:

- R_w : 66 dB
- $R_w + Ctr$: 59 dB
 (As per British Gypsum B226005 EN system performance)

2. INDEPENDENT ACOUSTIC CEILING SYSTEM – SPECIFICATION

(Equivalent to B226005 EN using same components)

System Description:
 Independent suspended acoustic ceiling formed using Gyframe GL1 Lining Channels, supported from timber joists using Gyframe GL9 Brackets, installed onto Gyframe GL8 perimeter track to create an 85-125mm acoustic cavity, fully filled with 50mm Isover APR 1200, finished with two layers of 12.5mm Gyproc SoundBloc.

Components:

- Same family of components as wall system for performance consistency.
- Channels & Track: Gyframe GL1 Lining Channel, GL8 Track (horizontal perimeter)
- Brackets: Gyframe GL9 Bracket (fixed upwards into joists)
- Connector: Gyframe GL3 Channel Connector
- Insulation: 50mm Isover APR 1200 Acoustic Partition Roll
- Boarding: 2 x 12.5mm Gyproc SoundBloc

Screws:

- 25mm for layer 1
- 35mm for layer 2
- Wafer-head screws 13mm for bracket fixing

Sealant: Gyproc Sealant continuous at all perimeters, junctions & penetrations

Installation Requirements:

- Fix GL8 Track around room perimeter at max. 600mm centres.
- Suspend GL1 channels from joists via GL9 brackets; maintain consistent drop forming 85-125mm cavity.
- Install GL1 channels at 600mm centres across ceiling.
- Fit 50mm APR mineral wool tightly between channels.
- Fix first layer of 12.5mm SoundBloc to channels at 300mm centres; fix second layer with staggered joints.
- Seal all perimeters, penetrations, and service openings with continuous acoustic sealant.
- Maintain fire performance of separating floor (typically 30-60 minutes).

Performance:

- (Expected system performance when installed correctly; final result subject to sound testing.)
- R_w : approx. 60-65 dB
- $R_w + Ctr$: approx. 55-58 dB

3. GENERAL NOTES (APPLICABLE TO BOTH SYSTEMS)

- All installations must follow British Gypsum SpecSure® Warranty requirements, including the use of proprietary system components only.
- All joints between layers must be staggered; boards must not bridge substrate irregularities.
- Sealant must be applied as a continuous bead around all boundaries before finishing.
- Services passing through walls or ceilings must be acoustically sealed.
- The completed installation must undergo Pre-Completion Sound Testing to demonstrate compliance with Approved Document E (Change of Use / Material Change).
- Any change to the specified system must be approved by the design team to preserve performance and compliance with Condition 8.

4. SUMMARY OF COMPLIANCE

These wall and ceiling systems together create a fully decoupled acoustic envelope, significantly reducing airborne and flanking sound transmission from the micro pub into the residential flats above and adjacent. When constructed as specified and verified by pre-completion sound testing, this specification satisfies:

- Approved Document E – Resistance to the Passage of Sound
- Planning Condition 8 (Insulation of party walls and ceilings)
- General acoustic expectations for noise-sensitive mixed-use buildings.

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No.	Revision/ Issue:	Date:

Client:
Taylor

Project Address:
34 High Street
Grimethorpe
Barnsley
S72 7LP

Project No. 2225

Sheet No. 004

Scale: 1:10 @ A3

Date: 27/11/25

Drawing Title:
Party Wall Noise Solution

