Planning Statement
Installation of an external CHP within an acoustic enclosure and one exhaust flue, relocation of an existing CHP from an existing enclosure. Relocation of existing bin store and erection of associated 1.9 metre high fencing.

Waterside Hotel and Leisure Club.

Prepared for: Waterside Hotel and Leisure Club Wilmslow Road, Didsbury, Manchester, M20 5WZ.

May 2021.

RTPI
Chartered Town Planner

Planning Statement *Document Control Sheet*

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Our Reference: 6398-09

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1. Introduction

1.1 This Planning Statement has been prepared by Apex Planning Consultants in support of a planning application submitted to Manchester City Council *(*herein *'the Council'*). The application relates to the proposed installation of an external CHP within an acoustic enclosure and one exhaust flue, the relocation of an existing CHP, and the relocation of a bin store and erection of associated 1.9 metre high fencing, at the Waterside Hotel and Leisure Club (herein *'the application site*).

1.2 This planning application follows the approval of a similar proposal (application ref: 127246/FO/2020) and whilst the location of the development is the same the details are sufficiently different to require a new planning application. The differences relate to the existing CHP's enclosure which will not be raised, the proposed CHP's enclosure which will have a slightly larger footprint, and the exhaust flue which will be slightly lower than before.

1.3 The objective of the statement is to provide the Council with enough information to assess the merits of the proposal. The statement advises on:

- The application site and its surroundings
- The detail of the proposal, and
- The planning considerations that assist in the assessment of this proposal.

2. The Site and its Immediate Surroundings

Site Context

2.1 The application site is within a predominantly residential area, with housing to the north and west, and the M60 and River Mersey and are to the south and east respectively.

2.2 The existing CHP and enclosure is approximately 20 metres east of the nearest dwelling house that fronts onto Morningside Drive. The existing bin store, which is the site of the proposed CHP and enclosure is approximately 45 metres distant from the same dwelling house. The dwelling houses are two-storey in height and where their rear gardens back onto the application site, the shared boundary treatment is generally 2-metre high concrete post and timber panel fencing. There are also several examples of dwelling houses that have substantial mature vegetation within their gardens lining the same shared boundary.

The Site

2.3 The wider application site is occupied by a two-storey hotel and leisure building; the leisure element is mostly contained within the northern part of the building. The site access is via two-way private road at the northern-most part of the site, providing ingress / egress to Morningside Drive, essentially where it meets with Manchester Road (B5095).

2.4 The hotel and leisure building has two car parks, one each to the north and south. The eastern boundary is largely tree lined, although none in the vicinity of the application site are protected. Others to the south are subject of a woodland Tree Preservation Order.

2.5 The image at *Plate 1* below shows the location and appearance of the existing CHP's exhaust flue and its enclosure, which are located adjacent to the north elevation of the building. An existing bin store is contained behind timber fencing and is located at the north east corner of the building.

Site Planning History

2.6 Application ref: 112460/FO/2016/S2 sought retrospective permission for the installation of a combined heat and power plant (CHP) including exhaust flue in a

compound adjacent the plant rooms of an existing hotel and was granted on 1st September 2016. This is visible in *Plate 1* below.



Plate 1 – Aerial image of the application site (Credit Google Earth).

2.7 The permission was granted subject to four conditions relating to noise, operating hours – turbine and compressor allowed between 07:00-23:00 only – and the colouring of the external flue (matt light grey – RAL7001).

2.8 More recently the Council has granted planning permission (ref: 127246/FO/2020) for the installation of a CHP turbine and gas compressor with exhaust flue and the erection of a 4 metre high sound absorbent enclosure; relocation of existing bin store and erection of 1.9 metre high fencing; replacement of the existing CHP and its enclosure with a thermal store and a new 3.3 metres high enclosure. The date of the decision is 28th July 2020. The proposal is in the same location as the current planning application and the detail of the development is also similar, however, the differences mean that a new planning application is required, and they go beyond what would be allowed by a Section 73 planning application.

3. Description of the Proposal

3.1 The proposal is related to the installation of a replacement CHP. The new CHP turbines will be located within the area currently occupied by existing bin store. They will be mounted on sectional steel bases, reflecting mitigation advice within the Flood Risk Assessment that accompanies the application. The bases will be 700mm high. An exhaust flue measuring 400mm in diameter will run horizontally from the top of the CHP unit and immediately bend towards the River Mersey so that it is horizontal, parallel to the ground.

3.2 The new CHP installation will be surrounded by a 4-metre high acoustic barrier built on a 700mm high concrete upstand. It will be timber on the external face with the sound absorbent material on the interior face. It will have matching double hinged gates. The base of the enclosure will drain to an acco-drain at the front of the enclosure, which is connected direct to the surface water drainage. The acoustic barrier will reflect that which has been used elsewhere by Pure World Energy, the company supplying the CHP. *Plate 2* shows a CHP and acoustic enclosure in situ at Watford Woodside Leisure Centre.



Plate 2 – A CHP and acoustic enclosure in situ (Watford Woodside Leisure Centre).

3.3 In addition to the above, the planning application is accompanied by the acoustic enclosure's proprietary (JCW Acoustic Supplies) details, which are provided at Appendix 1. This will be filled with mineral wool and protected by geotextile fabric. The external timber finish will ensure the acoustic enclosure reflects the design and appearance of the previously approved (ref: 127246/FO/2020) enclosure and the bin store.

3.4 The CHP will provide heat and electricity to the building and will always be used in the first instance to provide this, rather than the existing boilers. The boilers are only used when the heat demand of the building is greater than the CHP heat production. The CHP is comprised of turbines that will produce electricity from the combustion of gas, and a "Heat Recovery Module" that transfers the heat from the flue gas to a hot water loop.

3.5 The enclosure will be topped with a wire mesh (to let the warm air escape outside), the single flue projecting through it will be fitted with three attenuators to mitigate against potential noise disturbance. The detail of these attenuators is set out within the acoustic report that accompanies this planning application. This system of attenuation has been used by the supplier in multiple CHP projects and all have been found to be acceptable by the different local planning authorities.

3.6 The existing bin store (see *Plate 3* below) will be relocated to the south. *Plate 3* also shows the existing fencing behind which the new bin store will be created. Additional 1.9 metre high timber fencing will provide the final enclosure.



Plate 3 – Existing and Proposed bin store locations.

3.7 The existing CHP and its exhaust flue will be decommissioned and removed from the application site. The turbine will be relocated to the new acoustic enclosure for use with the new CHP installation. The gas compressor will remain located in the existing enclosure and connected to the new CHP installation. An additional gas compressor will be located in the existing enclosure, which will have a solid roof. *Plate 4* below is reflective of what the roof will look like.



Plate 4 – An example of the roof for the proposed thermal store.

3.8 The locations of the existing and proposed CHPs are shown on the aerial image at Appendix 2.

3.9 All services for the new CHP installation will be run underground from the existing enclosure via a trench.

3.10 No parking spaces or landscaping will be affected by the proposal.

4. Planning Considerations

4.1 The Council's development plan comprises the Core Strategy Development Plan Document 2012-2027 and 'saved' policies within the Unitary Development Plan (1995). It is pertinent that these two Local Plan documents were in force when the application (ref: 112460/FO/2016/S2) for the installation of the existing CHP and the application (ref: 127246/FO/2020) for the extant permission was considered, therefore, it is reasonable to conclude that the policies that were deemed to be pertinent at that time will be again now. The pertinent policies include:

<u>UDP 'saved' policies</u>

- DC26.1
- DC26.2

<u>Core Strategy policies</u>

- EN4
- SP1
- DM1

4.2 Other policies that are relevant, but which did not form part of the decision-making exercise for the previous planning application include: Core Strategy Policy EN13 (Green Belt) and EN14 (Flood Risk).

4.3 The application site is an established hotel and leisure site, providing an array of recreation and sporting activities. It is a sustainable location in proximity to many residents, who can walk and cycle to the site. Those patrons who travel from further afield can also utilise public transport, because of bus stops nearby at Manchester Road (B5095) and Kingsway (A34). However, where this is not possible or desirable, the application site is served by two large off-street car parks.

4.4 The application site is located within the Green Belt – identified by the Interactive Proposals Map. The site is clearly developed with a large hotel and leisure building and extensive hard surfaced car parks and access roads. This is not typical of other Green Belt to the north and west, which is a mix of verdant grassland and trees, and used for formal and informal recreation and sport.

Nonetheless, the application site is well screened from public views by the dwellings to the north and west, the hotel and leisure building to the south and the dense belt of mature trees and hedgerow to the east.

4.5 The proposed replacement of the existing CHP installation is essentially like-for like therefore its impact is neutral. It is also relevant that extant planning permission for essentially the same CHP and enclosure in this location exists and represents a material consideration to which the Council should apply significant positive weight. The visual impact caused by the very modest increase in the height of the acoustic enclosure is negligible. This element of the proposal will therefore utilise previously developed land, it is essentially proposing the same use of the land and the visual impact / impact on openness is negligible / neutral. As such, we posit the proposed thermal store will not adversely affect the Green Belt.

4.6 The new CHP that will replace the existing CHP approved in 2016 will be contained inside the existing bin store area. This area is again previously developed land, and the perimeter of the bin store is formed by timber fencing that is circa 2-metres in height. The proposed CHP will be enclosed by an acoustic barrier that is 4-metres in height however any perceived visual impact and harm to the openness of the Green Belt is militated by its proximity to the hotel and leisure building, which is significantly taller therefore in context it will not be obtrusive, and the fact it will utilise timber on its external face. This material will ensure a soft appearance and it is in-keeping with the existing bin store material. In addition, the aforementioned trees and hedgerow on the east boundary of the application site will provide effective screening.

4.7 The purpose of this planning application is to allow the hotel and leisure building to be heated and powered in a more efficient and sustainable way, which is a continuation of enhancements to the operation of the building that have already been implemented via the grant of the earlier planning permission. The technology that is to be incorporated into this proposed development has been implemented in leisure centres around the country, including but not limited to Watford, Middlesbrough, Swindon, Gainsborough (West Lindsey) and across London. The proposal is clearly ancillary to the wider use of the application site therefore we posit it satisfies the objective of Core Strategy SO6 and Policy EN4,

which support energy efficiency and the reduction of Manchester's carbon footprint.

4.8 Factoring the location of the replacement CHP installation, including its physical connection to the hotel and leisure building, the existing equipment they will replace, and the manmade and natural screening they can be regarded as extensions or alterations of a building and they are no disproportionate additions over and above the size of the original building. Furthermore, they will not have a greater impact on the openness of the Green Belt, meaning the proposal satisfies the definition of development that is not inappropriate in the Green Belt (paragraph 145 d) and g) of the NPPF). We posit that Policy EN13 is satisfied, too.

4.9 In the event the Council disagrees with the approach we have stated above, we aver that the benefits from the generation of renewable energy and reduction in carbon are 'very special circumstances', because of the wider environmental benefits that would justify granting planning permission, in accordance with paragraph 147 of the NPPF. This is because the proposed CHP units will allow the hotel and leisure building to generate heat and electricity for its own consumption in a more environmentally sustainable and cost-effective way, lowering its energy consumption and reducing carbon emissions.

4.10 The exhaust flue is essentially functional in design and so are the materials. Nevertheless, the material and colouring of the acoustic enclosure will draw on the appearance of functional elements (i.e. doors and fencing) already integrated into the application site and its shared boundary with the adjacent dwelling houses. The fact the CHP 's acoustic enclosure will be approximately 2-metres taller than that of the existing bin store and the existing enclosure will be 0.6 metres taller than the one around the existing CHP will not harm the character and appearance of the area, because in the context and scale of the adjacent hotel and leisure building and the operational nature of the surrounding car park, it is relatively small.

4.11 The exhaust flue will pass through the acoustic enclosure and it will comprise stainless steel, however, again, in the context of the significantly larger building, and the existing exhaust flue whose termination height is greater, there will be no adverse impact, merely a neutral or modest enhancement to the character and

appearance of the area. Furthermore, views of the application site from the dwellings to the west are taken at distance and include views across land that includes the functional car park and existing bin store.

4.12 It is noted that when the Council considered the previous application for the existing CHP the Committee report observed that the matt grey colour of the flue: *"is considered to be acceptable as it will be less visible from the rears* [sic] *of houses on Morningside Drive and will not reflect bright sunshine back onto residents' houses."*

4.13 The proposal does not include any additional landscaping however this is not possible for practical reasons, because all the land surrounding the two development sites are used for operational purposes, whether that is access to the building, the proposed bin store or car parking.

4.14 There will be no loss of soft landscaping from the green buffer to the east of the application site, therefore, with regards to all the above, any perceived change in character within the site would not have an unacceptable visual impact on the surrounding area. However, it is also pertinent that the two enclosures will be located on the least public corner of the application site, and be attached to an elevation where there is existing operational activities (i.e. the bin store and existing CHP enclosure). This operational area is not public facing, albeit patrons using the car park will drive and walk past. Indeed, all views will be localised.

4.15 The site is not in a Conservation Area and it is not a listed building. It is located is an area where buildings offer no obvious dominant or high-quality character or appearance. The application site is previously developed land and the development is very much subservient to the host building so there will be no adverse impact and Policy SP1 and Policy DM1 are satisfied.

4.16 The proposal generates no dust or odour and it does not include any need for artificial lighting. Noise is an issue to be addressed however, and the proposal is proactive insomuch as the planning application is supported by a Noise report. The noise data that accompanies the application shows the enclosure containing the CHP is open topped. The existing enclosure containing the gas compressors will be sealed with a solid roof. However, the submitted Noise report states that with the suggested noise attenuation (absorbent noise screens and attenuators for

the flue) the requisite noise mitigation will be achieved to ensure the most vulnerable 'receptors' (the occupiers of dwellings to the west) will not be adversely affected. As a result, saved Policy DC26.1 and DC26.2 and Core Strategy Policy DM1 are satisfied.

4.17 The application site, comprising the new CHP and the replacement of the existing CHP are located within Flood Zones 2 and 3, as per the Environment Agency Flood Map. The application is therefore accompanied by a Flood Risk Assessment (FRA). This notes that the new CHP will be located inside an area currently fenced off to provide a bin store.

4.18 The FRA concludes that because the CHP will be installed atop an open steel frame / base it will be protected from potential fluvial flooding. The fact that the steel frame base will be 'permeable' also means in such an event no flood waters will be displaced. By incorporating drainage outlets and an acco-drain across the front at the base of the acoustic enclosure run-off can drain from within the acoustic enclosure and avoid displacing potential flood waters. The enclosure base will be constructed to a fall to allow any water to positively drain towards the acco-drain. This is to be installed across the entrance to the enclosure and connected to the existing surface water drainage system. As such, Policy EN14 is satisfied.

4.19 Regarding other planning matters, the proposal does not affect car parking provision – no additional demand for spaces will be created by the proposal and none will be lost; no trees will be affected by the proposal; no fumes or odours will be generated, notwithstanding the application site is not classified as part of an Air Quality Management Area.

5. Conclusion

5.1 The CHP unit, gas compressors, flue, and the respective acoustic enclosures will allow the sustainable generation of heat and energy for use by the hotel and leisure building.

5.2 The siting, materials, operational details and proposed attenuation measures demonstrate that the proposal will not adversely affect the character and appearance of the area or residential amenity. Furthermore, it will not adversely impact on vehicular or pedestrian activity. Indeed, the proposal is largely the same as proposed by the extant planning permission (ref: 127246/FO/2020).

5.3 The proposal meets the criteria for development allowed as an exception to normal Green belt restrictions and it will not harm its openness either.

5.4 Whilst the two elements of the proposal fall into areas categorised as Flood Zones 2 and 3, the proposed mitigation measures will ensure they are protected from potential flood waters, and they will not displace them either.

5.5 Regarding the above, the Council is respectfully requested to grant planning permission for the proposed development.

Appendix 1

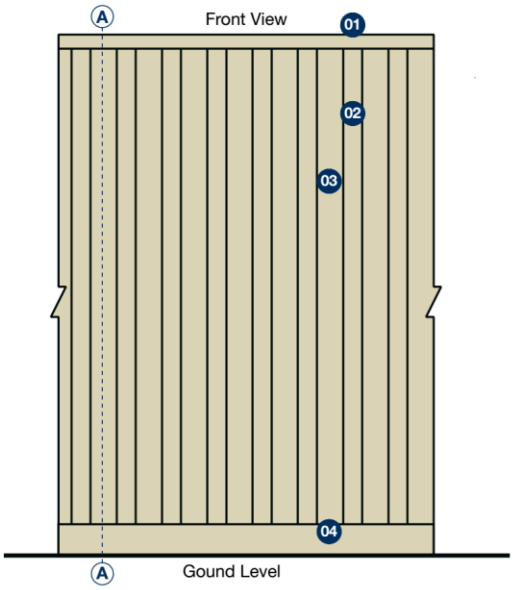
JCW Absorbent Sound Screen

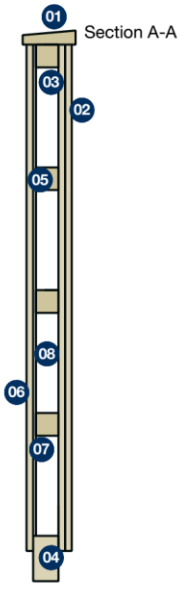
FITTED INTO STEEL POSTS - SUITABLE FOR INDUSTRIAL AND COMMERCIAL ENCLOSURES (MAX HEIGHT 5M)

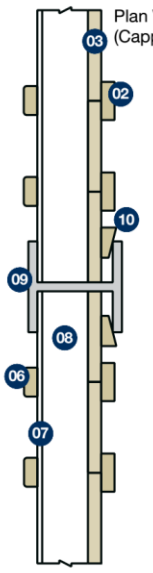


Datasheet 46

nssPlus







01 Capping Rail
02 Cover Strips
03 Boards
04 Gravel Board
05 Rail
06 Shaped Vertical Batons
07 Geotex
08 Absorber
09 Post
10 Site Fix Wedges (steel post only)

Please Note

1. Structural calculations may be required by qualified persons, no responsibility can be accepted by using this design without professional advice. Maximum height of 5 metres.
2. Conforms and tested to BS EN 1793. Also tested and complies to BS EN 1794-1 and BS EN 1794-2.
3. Complies with Highways Sector Scheme 2C for the prefabrication of environmental barriers.
4. Structural calculations may be required by qualified persons, no responsibility can be accepted by using this design without professional advice.
5. Design in accordance with specification for Highway Works Clause 2504. Treatment to Sector Scheme 4.
6. Height of sound screen variable to suit specific locations. Post centres at 3.0m unless otherwise specified.
7. Absorbent sound screens can also be fitted to timber posts as an alternative.

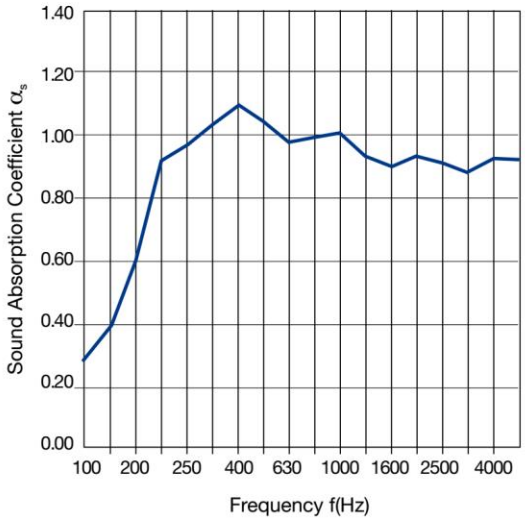
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JCW 03/2015

JCW Absorbent Sound Screen fitted into steel posts. BS EN 1793-1: 1998. Acoustics - Road traffic noise reducing devices. Test method for determining the acoustic performance.		
Size: 12m²		
Receiving Room		
Volume: 220m²		
Condition: Clean		
Type: Large Reverberation Room		
Location: Acoustic Transmission Suite		
Sample Out:	**Temperature:** 20.1°C	**Humidity:** 48.5%
Sample In:	**Temperature:** 22.4°C	**Humidity:** 51.7%
DLα: 12		
Category: A4		

Frequency HZ	α
100	0.27
125	0.40
160	0.62
200	0.90
250	0.94
315	1.03
400	1.10
500	1.06
630	0.97
800	0.99
1000	1.00
1250	0.90
1600	0.89
2000	0.92
2500	0.90
3150	0.87
4000	0.92
5000	0.91



Test results for JCW Absorbent Sound Screen issued by:
University of Salford (Acoustics Test Laboratory)
UKAS accredited test laboratory No. 1262

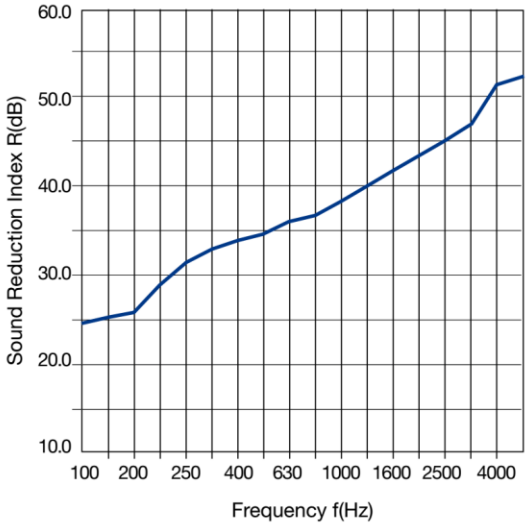
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JCW Absorbent Sound Screen fitted into steel posts. BS EN 1793-2: 1998. Acoustics - Road traffic noise reducing devices. Test method for determining the acoustic performance.	
Size: 8.64m²	
Source Room	**Receiving Room**
Volume: 136m²	**Volume:** 220m²
Condition: Clean	**Condition:** Clean
Type: Small Reverberation Room	**Type:** Large Reverberation Room
Location: Acoustic Transmission Suite	**Location:** Acoustic Transmission Suite
Temperature: 19.2°C	
Humidity: 56.3%	
DLα: 35	**Category:** B3

Frequency HZ	R
100	24.4
125	25.2
160	25.9
200	28.2
250	31.8
315	32.9
400	33.3
500	34.3
630	36.2
800	36.8
1000	38.0
1250	39.6
1600	41.6
2000	43.2
2500	44.9
3150	47.1
4000	51.3
5000	52.4



Test results for JCW Absorbent Sound Screen issued by:
University of Salford (Acoustics Test Laboratory)
UKAS accredited test laboratory No. 1262

Test reference number: AC09/215/11

Domestic Dwellings | Offices | Hotels | Conference Centres | Leisure Centres | Schools | Restaurants | Showrooms

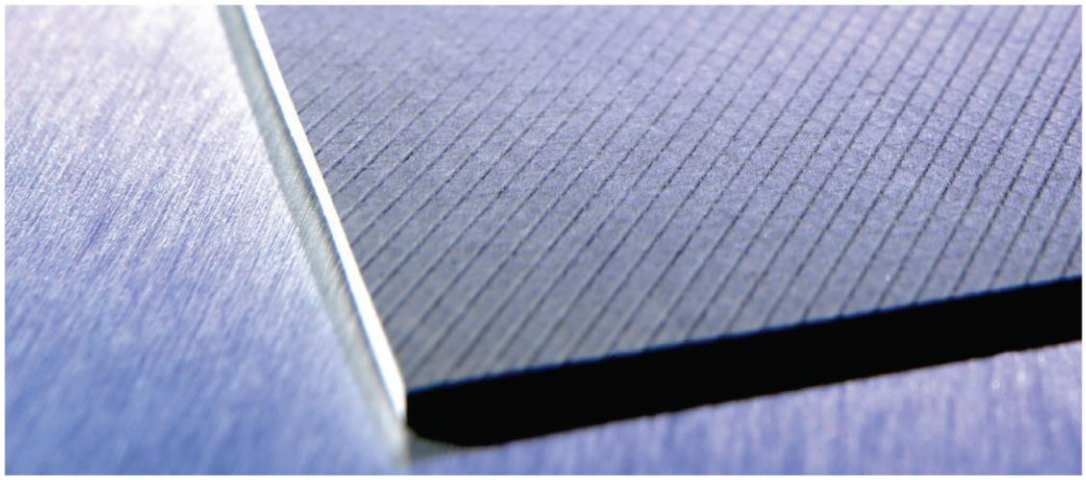
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Acoustic Barrier Mat

MULTI-PURPOSE SOLUTION

nvsPlus

Datasheet 03



Product Code: 1.2mm - 1013 2mm - 1014 3mm - 1015 4mm - 1017

Multi-purpose, dense acoustic barrier matting.

Barrier Matting offers very good airborne performance across the frequency range .

- Noticeable improvements will be gained when bonding barrier matting between two layers of Plasterboard on walls & ceilings or pinning on to stud work or joists prior to plasterboard fixing
- Noticeable airborne improvement gain with minimal height loss when 2 x 2mm barrier matting layers are laid on the floor in opposite directions
- Hanging Curtain: Ideal as a separating curtain wall between offices above walls
- Perfect product for dampening steelwork, ducting and machinery casings etc

Tested and rated according to BS EN ISO 717-1: 1997, BS EN ISO 140-3: 1995 and BS EN ISO 2750: Part 3

Transmission Loss Data: dB

Material/Frequency (Hz)	125	250	500	1k	2k	4k
JCW B3	9	12	16	21	24	28
JCW B5	14	17	21	27	30	34
JCW B7.5	17	20	24	29	32	36
JCW B10	19	23	27	33	36	40

Mean Sound Reduction Index

1.2mm (3.0 kgs/m²): 16 dB
2mm (5.0 kgs/m²): 21 dB
3mm (7.5 kgs/m²): 24 dB
4mm (10.0 kgs/m²): 27 dB

Product Code	Product Weight	Roll Size	Roll Weight per roll
1013	3.0 kgs/m²	1.2mm x 1200mm x 5m	18 kgs
1014	5.0 kgs/m²	2mm x 1200mm x 5m	30 kgs
1015	7.5 kgs/m²	3mm x 1200mm x 4m	36 kgs
1017	10.0 kgs/m²	4mm x 1200mm x 2m	24 kgs

Ancillary Products

1027 JCW Acoustic Sealant (310ml)

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JCW 03/2015

JCW Barrier Matting Installation Guide

JCW Barrier Mat is a very versatile and dense product that is used for a wide range of applications where airborne sound reduction is required. The most common installation areas are floors, walls & ceilings.

Floors - Overview: The 2mm JCW Barrier Matting is easy to work with on floors; 2mm is flexible and can be easily laid. Supplied in 5LM roll lengths should suit most rooms with minimal joints. Generally we would suggest 2 x layers of 2mm/5Kg.m^2 laid in opposite directions to provide good performance with a minimal height increase of only 4mm. **Installation:** Cut the first row of matting continuously across the room up to the wall edges and if possible beneath the skirting boards if fitted. The second and subsequent rows should either be tightly butt edged or overlapped by 25mm to ensure optimum airborne performance. JCW Barrier Matting can be loose laid. However, the roll ends may require securing and some edge joints using JCW Back Cloth Jointing Tape. Additionally JCW Barrier Mat can be partially or fully bonded to the sub-floor. As JCW Barrier Matting is an impervious product the best adhesive to use for an instant bond is either a Spray Contact Adhesive for partial bond or trowel/spreader applied Contact Adhesive if full bonding is required. (Contact adhesive should be spread immediately once applied to the JCW Barrier Matting).

Walls - Overview: The 2mm JCW Barrier Matting is easy to work with on most walls surfaces. Generally the 5LM lengths x 1200mm width offer minimal waste and can be installed in continuous vertical lengths with vertical joints centrally between the studs or metal work.

Installation (Stud) option a): Cut the first vertical length and secure centrally between the studs or metal work using a few Clout Nails. Then fix the plasterboard/s over ensuring all plasterboard joints and/or minor gaps are sealed with JCW Acoustic Sealant/Mastic.

Alternatively option b) for an improved acoustic performance: First fix resilient bars horizontally @ minimum 400mm – maximum 450mm centres to the Stud work, then screw fix one layer of plasterboard onto the resilient bars, then bond the JCW Barrier Mat onto the plasterboard (using a Spray Contact Adhesive) securing the top 100mm of the JCW Barrier Mat to the plaster board then spot bond as required. Tightly butt edge successive lengths of JCW Barrier Mat to each other, then screw fix the 2nd layer of plasterboard (the opposite way to the first) over the JCW Barrier Matting. Seal all joints on both plasterboard layers with JCW Acoustic Sealant/Mastic. **Brick or Block walls:** Fix 50mm x 25mm timber vertical battens to the wall @ 400 or 600mm centres, fit 25mm x 45Kg.m^3 dense wool between the battens then install the JCW Barrier Mat as method in; option a) or b) above.

Ceilings: 100mm(d) x 45Kg.m^3 dense wool fitted between the joists then fix resilient bars at 90 degrees to exposed joists (*or battens)@ 400mm centres, then screw fix one layer of minimum 10Kg.m^2 plasterboard onto the resilient bars then ideally secure the JCW Barrier Mat to the second 10Kg.m^2 plaster board layer by partially bonding using a Spray Contact Adhesive. Trim off excess JCW Barrier Mat at the board edges then screw fix over the first layer. Seal the joints on both plasterboard layers with JCW Acoustic Sealant/Mastic. If fitting over any existing an *existing plaster boarded ceiling then (minimum) 50mm x 25mm(d) battens should be initially fixed then 25mm x 45Kg.m^3 dense wool between the battens, then proceed as above.

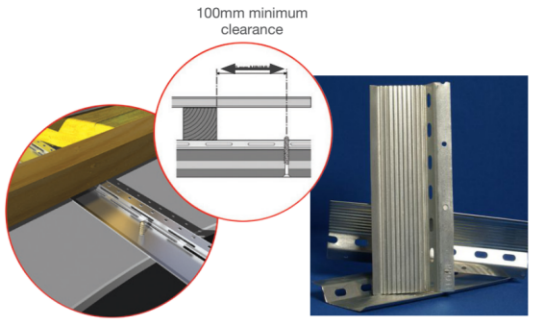
Note: The information provided above is for DIY/single dwellings improvement and should not be used for Approved Document E projects. We offer specialist tested systems with SRL test data for Approved Document E projects.

Guidance for using Resilient Bars

Screw fix the pre-drilled section of the resilient bars at 400mm centres and perpendicular to the joists, battens or studs.

Screw fix acoustic plasterboards to the flat underside of the resilient bars, allowing a clearance of 100mm of the supporting timbers.

It is imperative that no screws penetrate through the resilient bar and into the supporting structure.



Disclaimer: The product and installation information contained in this Data Sheet and General Installation Guide is to the best of our knowledge correct. Please contact us direct, prior to starting works, for the latest information to enable confirmation of the specification.

Domestic Dwellings | Offices | Hotels | Conference Centres | Leisure Centres | Schools | Restaurants | Showrooms

JCW ACOUSTIC SUPPLIES / Unit 32-34 Waters Meeting Development, Britannia Way, Bolton, BL2 2HH / Sales helpline **01204 548400**, 8.30am - 5.00pm Monday to Friday / sales@acoustic-supplies.com **www.acoustic-supplies.com**

StågEnergy

JCW ACOUSTIC SUPPLIES

CASE STUDY

Stag Energy Peaking Plant, Brampton, Cumbria

Client: Story Contracting
Product installed: 120m of 3m high JCW Absorbent Sound Screen

JCW Acoustic Supplies received an enquiry from our client Story Contracting who challenged us to supply and install 120m of 3m high JCW Absorbent Sound Screen with a 4m wide x 3m high double leaf JCW Absorbent Sound Gate on behalf of Stag Energy.

Stag Energy is an independent UK based company providing expertise and management services to innovative energy development projects in the rapidly evolving electricity and gas sectors.

Built to highways standards and fitted into timber or steel posts, the JCW Absorbent Sound Screen are highly effective sound screens for industrial and commercial enclosures.

The installation took our 2-man team around 3 weeks to complete and the project was valued at over £40,000.





The JCW Absorbent Sound Screen conforms and tested to BS EN 1793. Also tested and complies to BS EN 1794-1 and BS EN 1794-2.

JCW ACOUSTIC SUPPLIES

INSTALLATION GUIDE:

Step 1:
Baseplated Galvanised Steel posts set out at 2.4m centres and secured to existing concrete using 4 no M16 x 190mm HDG Resin Roads/ nuts/ washers and Fischer FISVT 380ML Vinylester Resin per post.



Step 2:
Timber Gravel Boards fixed to steel posts using 6.3mm x 65mm galvanised steel structural bolts



Step 3:
Timber Gravel Boards fixed to steel posts using 6.3mm x 65mm galvanised steel structural bolts



JCW ACOUSTIC SUPPLIES

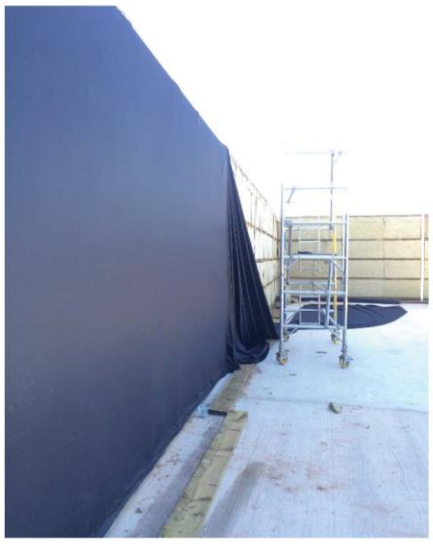


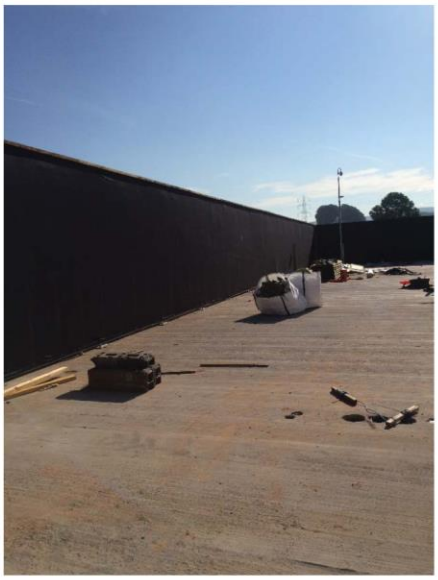
Step 4:
Timber Vertical boards and timber cover strips fixed to the gravel board and horizontal rails using 2.8mm x 63mm Round cross-sectional ring shank galvanised steel paslode nails



Step 5:
Absorbent Sound Slab friction fixed to timber panels

Step 6:
Geotex mesh secured to horizontal rails and gravel board (over lapped at the top of the fence) using Type A – Point C – 9mm Galvanised Staples





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Step 7:
Timber Half round rails secured to gravel board and horizontal rails using 2.8mm x 63mm Round cross- sectional ring shank galvanised steel paslode nails



Step 8:
Top timber rail secured to fence using 75mm galvanised timber deck screws

Installation is now complete

Contact Us: **Tel: 01204 548 400** **Email: sales@acoustic-supplies.com**

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Installed product (Internal):





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Installed product (External):





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Appendix 2

