70 PLENDER STREET, LONDON, NW1 0LB

BS4142 NOISE ASSESSMENT

17 October 2016

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Report Reference: RPT.160613.0 - 70 PLENDER STREET, LONDON, NW1 0LB- BS4142 ASSESSMENT

Revision	Description	Issued by	Issue date
	First Issue	Ruben Osie	17/10/2016

[redacted]

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1.0 INTRODUCTION

Acoustics has been appointed to carry out a noise impact assessment for a lauderette ventilation extract system at 70 Plender Street, London, NW1 0LB.

A noise survey and assessment has been requested by the Local Planning Authority to ensure that noise levels from the extract unit does not cause undue disturbance to nearby noise sensitive locations.

The purpose of this assessment is to determine the existing noise levels at the nearest noise sensitive location and establish maximum permissible noise levels for the proposed unit.

Such to establish suitable plant noise levels an assessment has been carried out to BS 4142: 2014 *'Method for rating and assessing industrial and commercial sound'*. This assessment has been benchmarked against an environmental noise survey carried out on 14 October 2016.

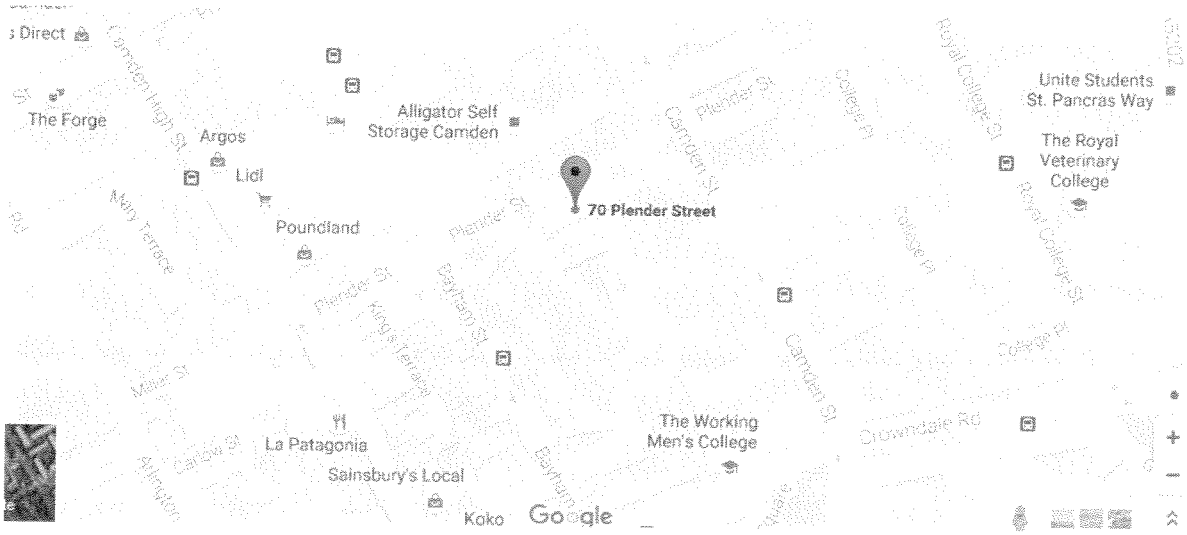
This report therefore describes the noise survey and its results. Figure 4.1 contains a graphical representation of the noise measurements taken on site. Section 5.0 provides the maximum permissible noise levels for the proposed plant. Section 6.0 provides an assessment of plant noise levels.

2.0 SITE DESCRIPTION

The site is located at 70 Plender Street, London, NW1 0LB.

A subjective noise assessment on site identified a number of noise sources to impact the residential flats. It was noted that noise from other plant associated with adjacent commercial units were audible at the rear of the premises. Additionally, background noise levels from road traffic on surrounding road was noted.

Figure 2.1 below shows a location map and aerial photo of the site and surrounding area.



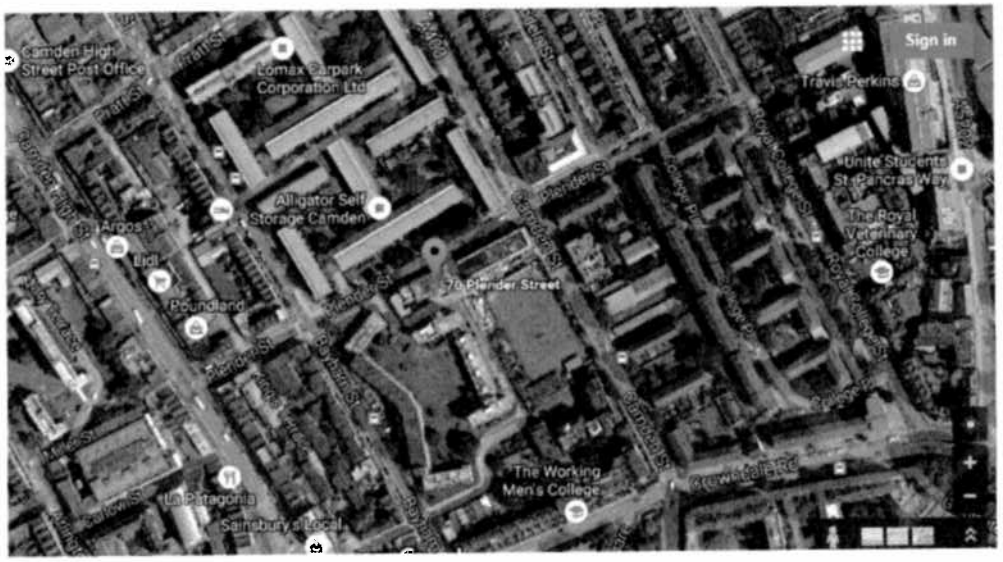


Figure 2.1 – Location map and aerial photo of the site

3.0 ENVIRONMENTAL NOISE SURVEY

A continuous 24-hour environmental noise survey was carried out between Friday 14 and Saturday 15 October 2016.

A single noise monitor was placed on site and located to the rear of the premises. At this location the microphone had no direct line of sight to road traffic due to existing buildings surrounding the site.

Noise levels measured at this location are considered representative of the existing environmental noise levels to impact the surrounding residential flats.

Figure 3.1 below provides a site photo of the microphone position.

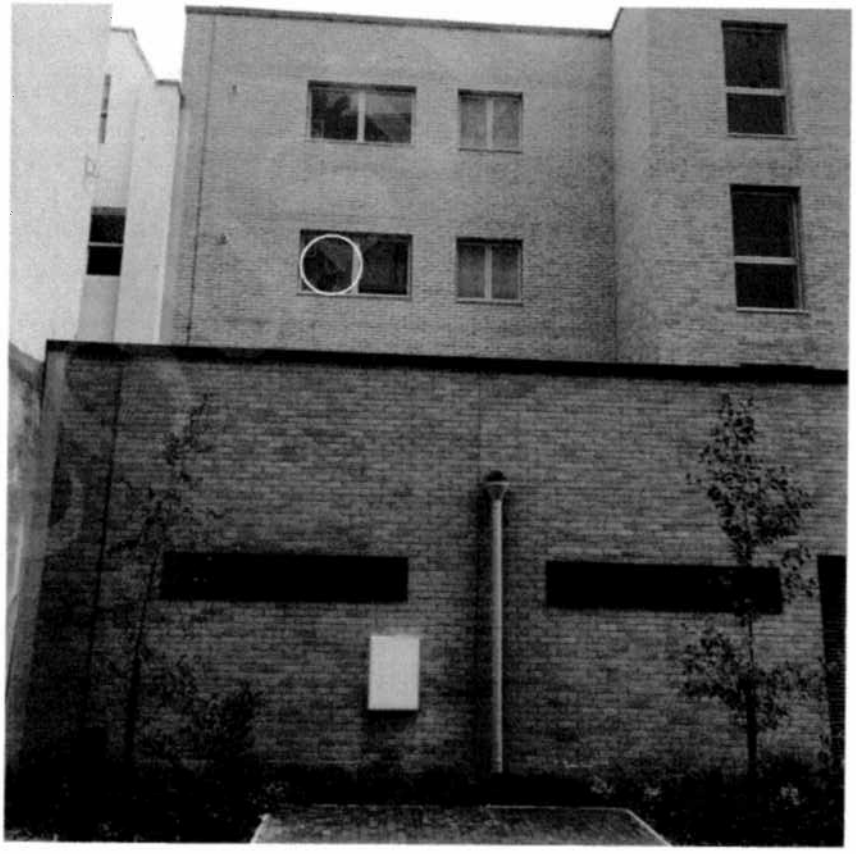


Figure 3.1 - Site photos indicating measurement position

3.1 Measurement Equipment

The following measurement equipment was used, which complies with the performance specifications for a Class 1 device in accordance with BS EN 61672-1, BS EN 61260 and BS EN 60942.

Name	Serial Number	Last Calibrated	Calibration Due
CEL Precision Sound Analyser Type 490	128006	Sept 2015	Sept 2017
CEL Type 495 Pre-amplifier	011368	Sept 2015	Sept 2017
CEL Type 250 Microphone	3241	Sept 2015	Sept 2017
CEL Sound Calibrator Type 284	10023283	Sept 2015	Sept 2016

Table 3.1 – Measurement equipment used on site

The meter was calibrated before and after testing - no deviations were found. The meter was set to measure consecutive 'A' weighted 15-minute samples. This time period is in line with BS 4142 requirements.

3.2 Weather Conditions

The weather was fine and dry for the duration of the survey. Wind speed remained below 5 m/s. The temperature varied between approximately 15 - 20 ^{o}C.

The weather conditions were seen as suitable for the measurement of environmental noise in accordance with BS 7445-1:2003 *'Description and measurement of environmental noise'*.

4.0 SURVEY RESULTS

The noise levels measured during the survey period are shown in Figure 4.1 below. The full set of acoustic data measured on site is available upon request.

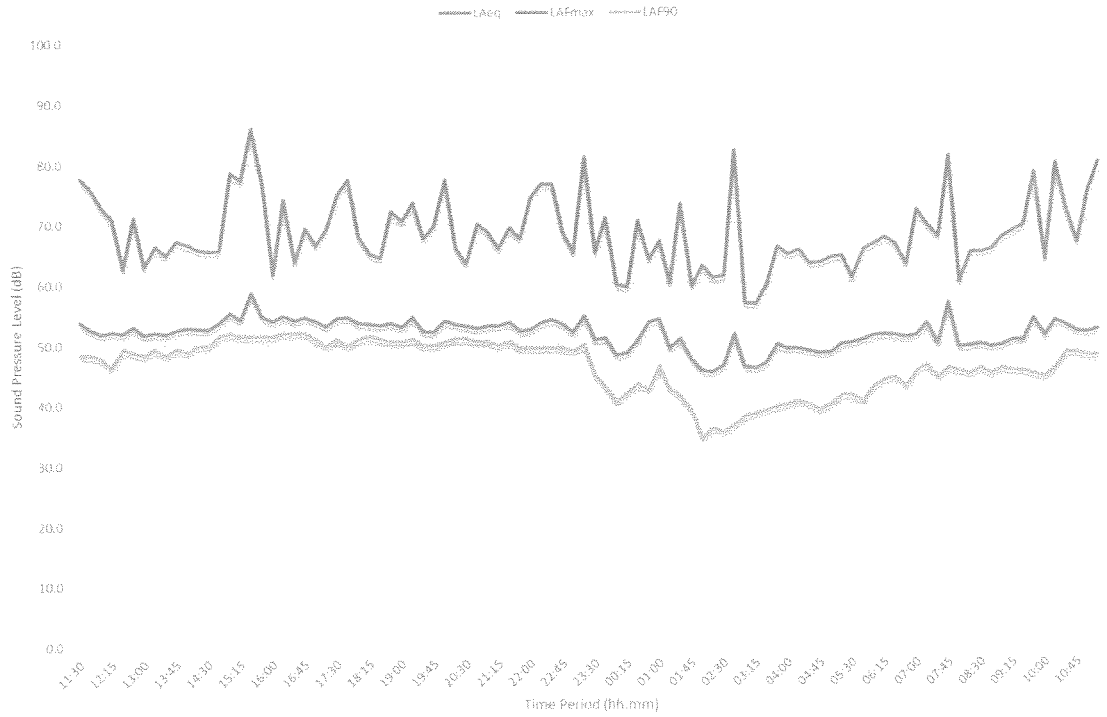


Figure 4.1 - Noise levels measured on site

It is seen from the graph above that the background noise level remained relatively constant throughout the day time period. This is considered attributable to the plant servicing the adjacent commercial premises.

The table below provides a summary of the noise levels measured on site at the fixed microphone position during the survey period including the representative background; L_{A90}.

Noise Descriptor	Daytime 07:00 – 23:00 hours	Night time 23:00 – 07:00 hours
Average Noise Level, L_{Aeq}	53.3	50.4
Representative Background, L_{A90}	49.5	43.0
Maximum Noise Level, L_{Amax}	85.9	82.0

Table 4.1 - Summary of measured noise levels

5.0 BS4142 ASSESSMENT CRITERIA

BS 4142:2014 describes a method of determining the level of noise of an industrial nature, together with the procedures for assessing whether the noise in question is likely to give rise to complaints from persons living in the vicinity. As such, an assessment to BS 4142 is typically called for within planning conditions.

The likelihood of complaints in response to a specific noise depends on various factors. BS 4142 assesses the likelihood of complaints by considering the margin by which the noise in question exceeds the background noise level. BS 4142 states that:

a) Typically, the greater this difference, the greater the magnitude of the impact.
b) A difference of around +10 dB or more is likely to be an indication of a significant adverse impact, depending on the context.
c) A difference of around +5 dB is likely to be an indication of an adverse impact, depending on the context.
d) The lower the rating level is relative to the measured background sound level, the less likely it is that the specific sound source will have an adverse impact or a significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context.

This standard also allows for an appropriate correction for the acoustic features present in the noise using a number of methods. A correction should be applied if one or more of the following features (see the list below), are present within the noise sources in question.

- The noise is of a tonal nature, i.e. it contains a distinguishable, discreet, continuous note such as whine, hiss, screech, hum;
- The noise is impulsive, i.e. it contains distinct impulses such as bangs, clicks, clatters, or thumps;
- The noise contains other characteristics that are neither tonal nor impulsive but is irregular enough to attract attention.

5.1 Target Plant Noise Levels

It is understood the ventilation extract system will operate during the day time and evening period only, i.e. between 07:00 to 23:00 hours, therefore Acoustics propose that noise levels for the unit should not exceed -5 dB above the existing background noise level. This target has been imposed upon similar developments and is seen as a suitable design day time and evening target where complaints are deemed unlikely.

It is considered that ventilation extract systems produce a broadband noise with no tonal features. These type of units are also inverter driven, meaning that the unit will gradually increase or decrease its operating capacity depending on the level of duty required. This gives a positive indication that the noise produced is not immediate or distinguishable therefore no correction need be applied to the results.

Based on the measured background noise level during the proposed operating period and the suggested design targets including any tolerance or correction factors the following table shows the maximum permissible noise level from the external condenser unit when measured at the window of the nearest residential receptor.

Measured Background L_{A90}	Tolerance Factor	Correction Factor	Max Noise Level at Residential
50 dBA	-5 dB	-0 dB	**45 dBA**

Table 5.1 - Plant Noise Level Target

Based upon the measurement results in Section 4.0 and noise level criteria provided within this section, it can be seen that noise levels from the proposed external condenser unit should not exceed 45 dBA at the nearest noise sensitive receptor.

Note that noise levels have been rounded to the nearest whole number for assessment purposes in accordance with BS4142:2014.

6.0 PLANT NOISE LEVEL ASSESSMENT

Current proposals are to change of use of new premises to a dry cleaners and launderette (Sui Generis use) and the erection of an ventilation extractor duct to the rear elevation. Manufacturer's technical data sheets are provided in Appendix B.

The proposed location of the ventilation duct outlet is estimated to be approximately 5 metres from the location of the nearest residential window with a limited line of sight. At this distance, noise levels from the duct outlet can be considered as a point source and sound will decay at a rate of 6dB per doubling of distance.

Calculations show that the noise levels from the proposed ventilation extraction system including attenuation losses will be approximately **39 dBA** when measured at the nearest residential window. This does not exceed the target plant noise level of **45 dBA** within Table 5.1 therefore it is considered that complaints are unlikely. Plant noise calculation sheets are provided in Appendix C.

6.1 Additional Plant Noise Guidance

While the majority of noise from the proposed ventilation extract system is generated aerodynamically through the air, it is important to note that structure-borne noise may also be generated by vibration of the fan casing and motor. This may be transmitted through the building structure via the ductwork. It is therefore important to isolate the system from the building structure with the use of resilient mounts. Further guidance should be sought from the system manufacturer to prevent structure-borne noise transmission.

7.0 SUMMARY AND CONCLUSION

A noise survey was carried out at the proposed location for a launderette extract system at 70 Plender Street, London on the 14 October 2016.

From this survey the representative background noise at the nearest sensitive property was found to be 5 dB L_{A90}.

Using guidance set out in BS 4142:2014, noise levels from the proposed ventilation extractor systemshould not exceed 52 dBA at the nearest noise sensitive window.

Based on manufacturer's noise level data for the ventilation extractor system and with the inclusion of an acoustic attenuator, calculations show that noise levels at the nearest noise sensitive receptor would be approximately 39 dBA based on the proposed location. This does not exceed the maximum permissible noise level target of 45 dBA therefore complaints are deemed unlikely.

APPENDIX A – PROPOSED SITE PLANS

RPS

Highfield House, 5 Ridgeway
Quinton Business Park, Birmingham B32 1AF

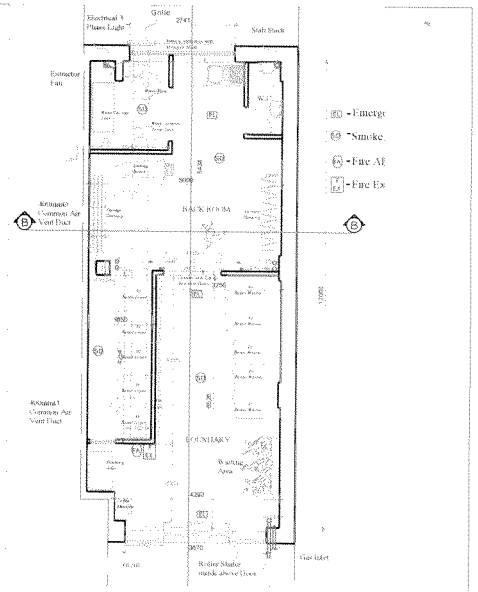
Tel 0121 213 5500

Retail Unit RG01 Sales Plan
Scale 1:100

04.06.2015 EXISTING SITE PLANS
AAA5174-A1400A RG01-A Ground Floor Retail RG01. Scale1:100 @ A3

Address : PLENDER STREET
CAMDEN
NW1

Project: PROPOSED LAUNDERETTE



Client: **MR GAILAN ALI**

Drawn / Prepared by:

E RILEY ASSOCIATES
CHARTERED SURVEYORS
8 HUXLEY PLACE
PALMERS GREEN, LONDON N13 5SU
Tel:020 8886 4693 Mobil: 07958 035 096

Date: October 2016

Application no:

No of Pages: 08

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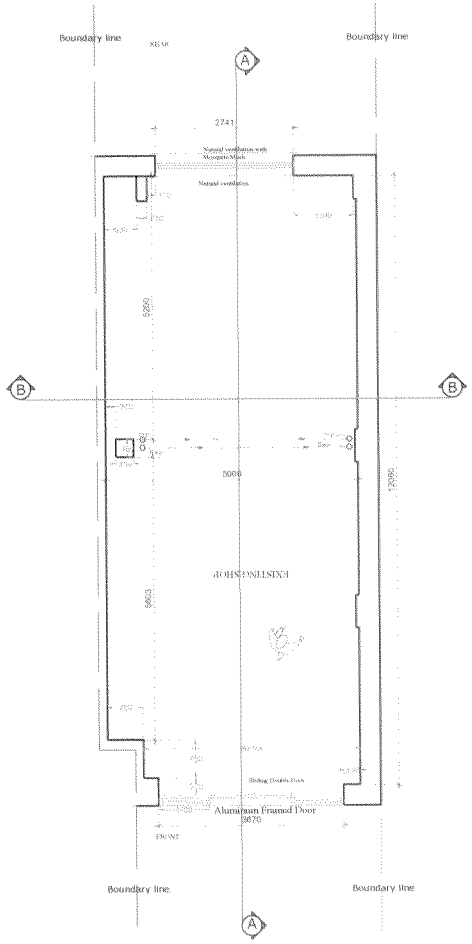

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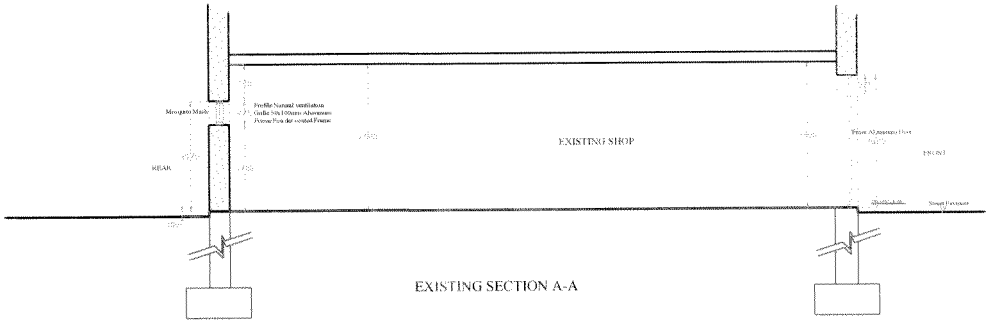

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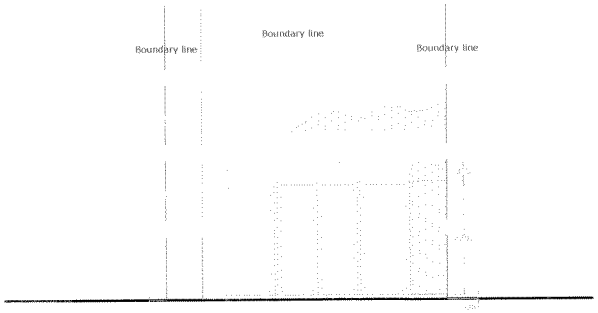

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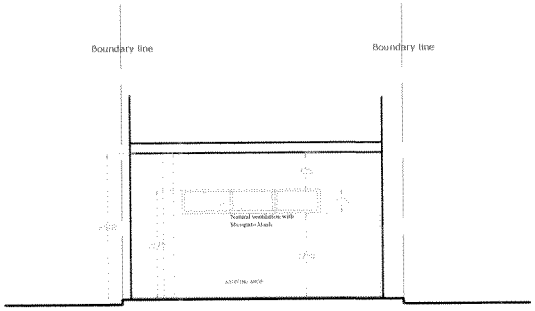

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ALL DIMENSIONS TO BE CHECKED ON SITE ONLY TO BE SCALED FOR PLANNING AND BUILDING REGULATIONS

Ref.	Revision	Date	By

E RILEY ASSOCIATES
CHARTERED SURVEYORS
8 HUXLEY PLACE
PALMERS GREEN, LONDON N13 5SU
Tel:020 8886 4593 Mobile: 07966 035 096

Project title: PROPOSED LAUNDERETTE

Project Address: PLENDER STREET
CAMDEN
LONDON NW1

Client: MR GAILAN ALI

Drawing title: EXISTING FLOOR PLAN, ELEVATION & SECTIONS

GENERAL PERMITTED DEVELOPMENT

Date: October 2016

Scale: 1:100 @A3

CAD & Drawn by: BB

Drawing No: 01/08

Drawn & Checked by: ER

File name: T & B95 Oct 2016

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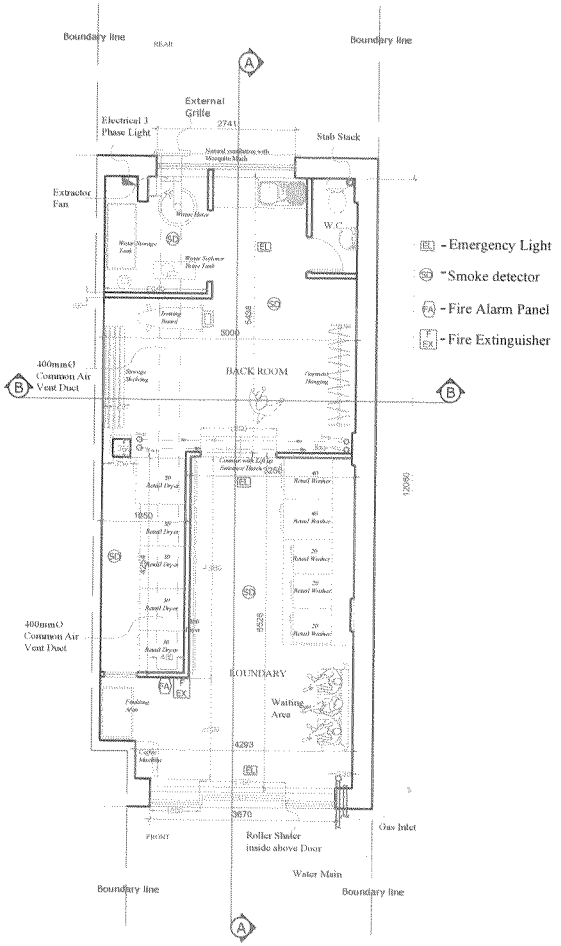

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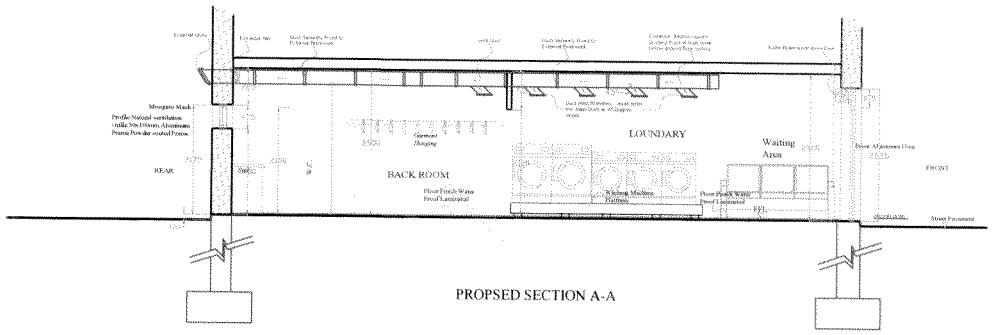

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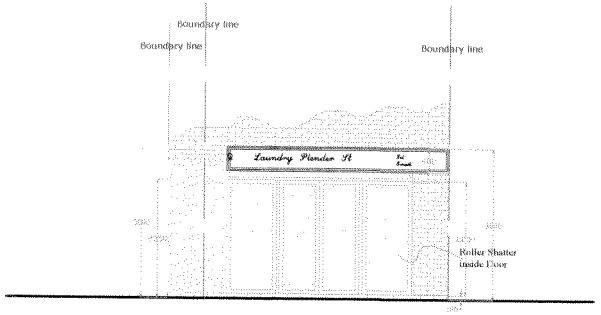

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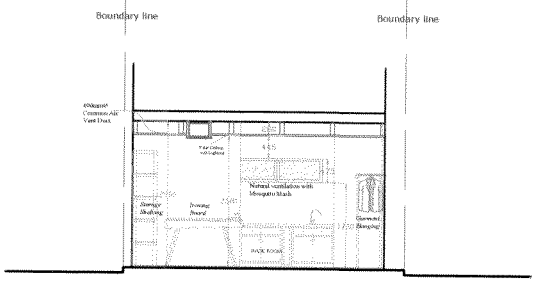

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ALL DIMENSIONS TO BE CHECKED ON SITE ONLY TO BE SCALED FOR PLANNING AND BUILDING REGULATIONS

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E. RILEY ASSOCIATES
CHARTERED SURVEYORS
8 HUXLEY PLACE
PALMERS GREEN, LONDON N13 5SU
Tel:020 8886 4493 Mobil: 07968 035 096

Project title: PROPOSED LAUNDERETTE

Project Address: PLENDER STREET
CAMDEN
LONDON NW1

Client: MR GAILAN ALI

Drawing title: PROPOSED SECTION A-A

GENERAL PERMITTED DEVELOPMENT

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CAD & Drawn by: BB

Drawing No: 02/08

Drawn & Checked by: ER

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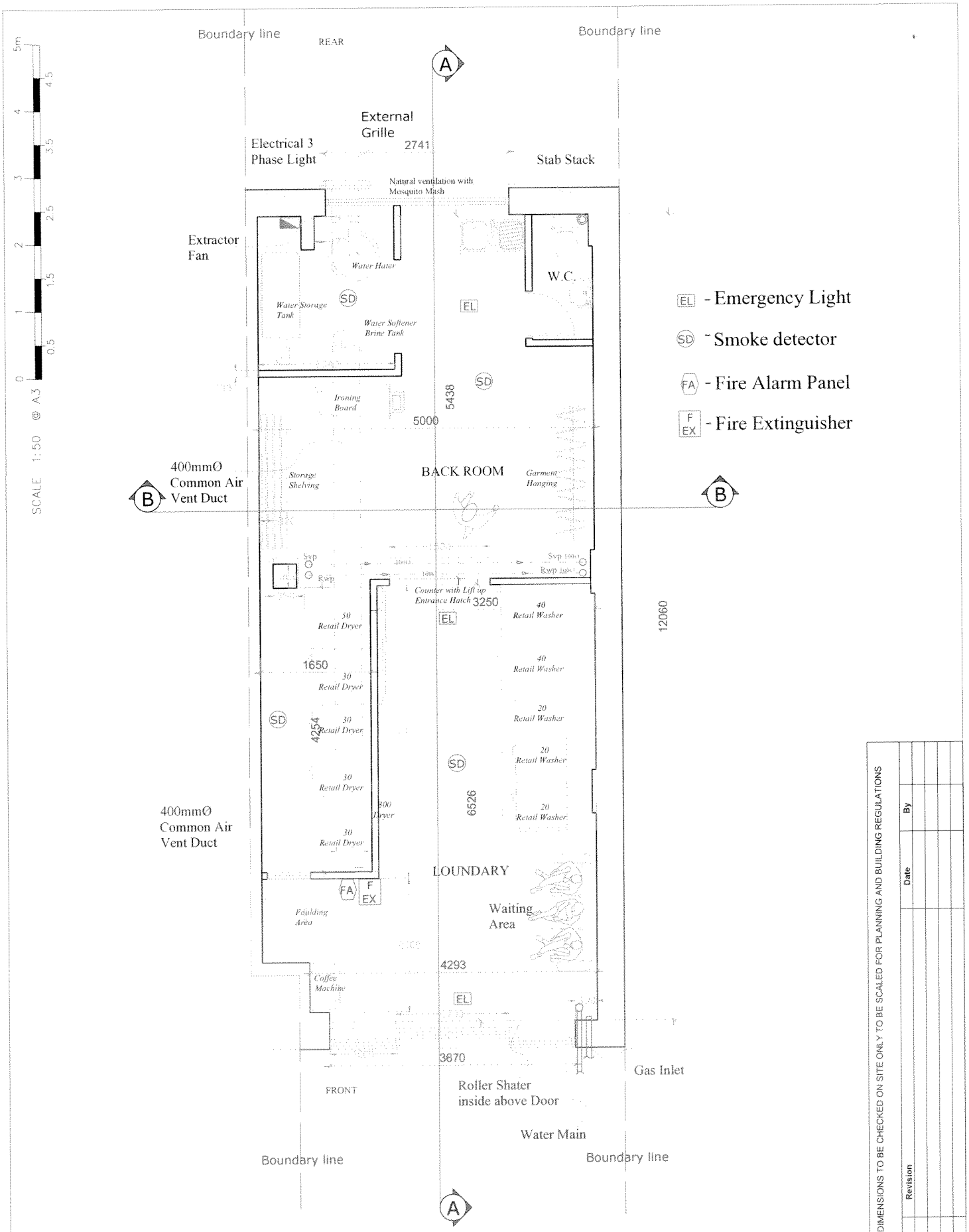

PROPOSED GROUND FLOOR PLAN

ALL DIMENSIONS TO BE CHECKED ON SITE ONLY TO BE SCALED FOR PLANNING AND BUILDING REGULATIONS

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GENERAL PERMITTED DEVELOPMENT

E RILEY ASSOCIATES
CHARTERED SURVEYORS
8 HUXLEY PLACE
PALMERS GREEN, LONDON N13 5SU
Tel: 020 8886 4493 Mobil: 07956 035 096

Project title: PROPOSED LAUNDERETTE

Project Address: PLENDER STREET, CAMDEN, LONDON NW1

Client: MR GAILAN ALI

Drawing title: PROPOSED LAUNDERETTE FLOOR PLAN

Date: October 2016

CAD & Drawn by: BB

Drawn & Checked by: ER

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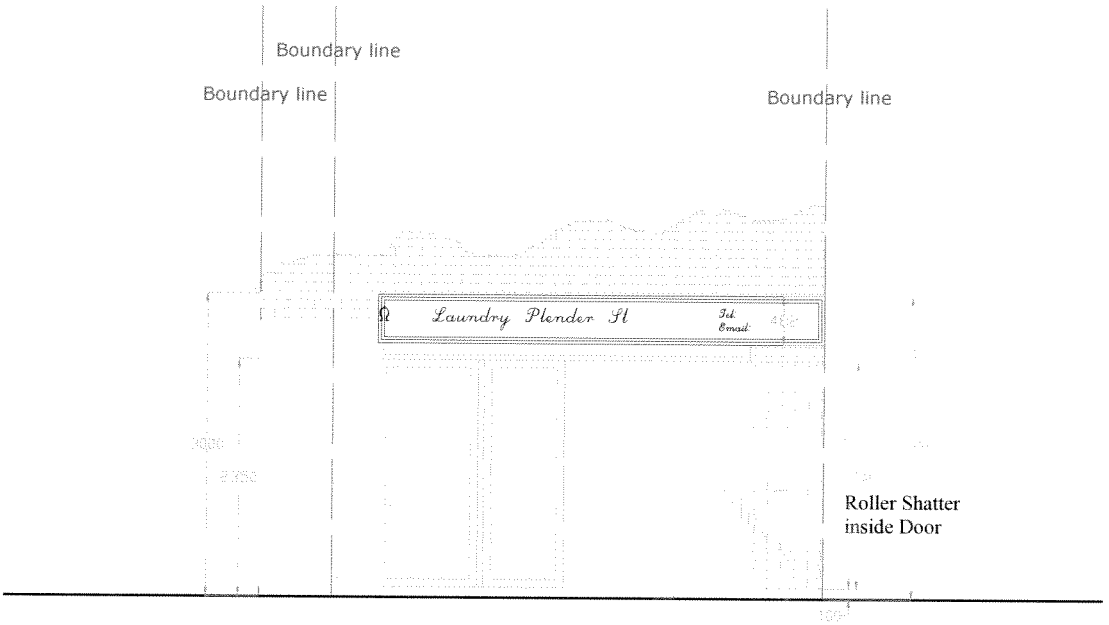

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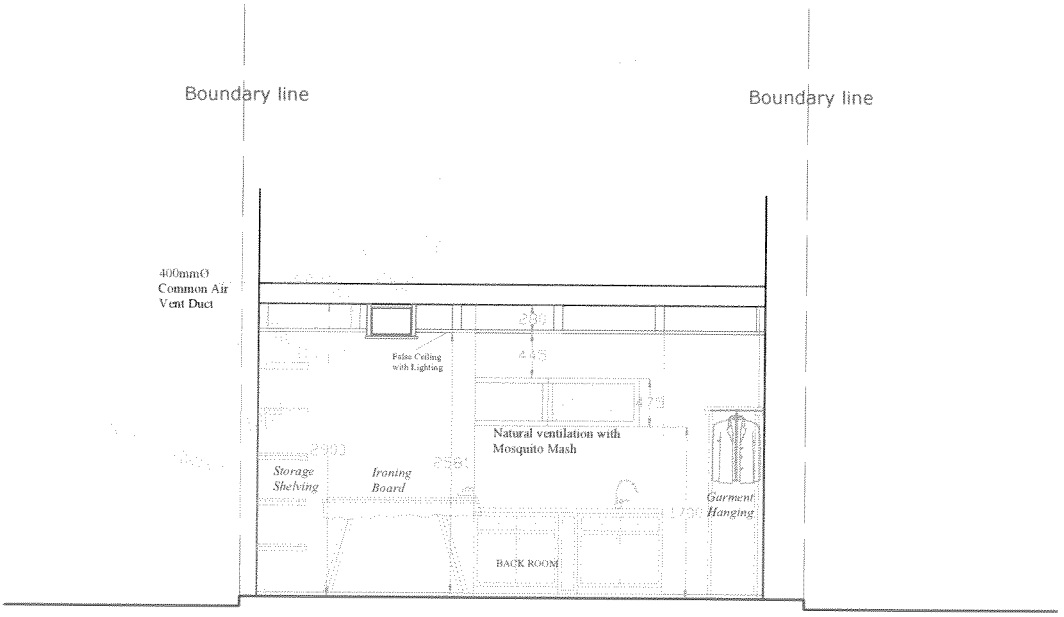

PROPOSED SECTION B-B

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E RILEY ASSOCIATES
CHARTERED SURVEYORS
8 HUXLEY PLACE
PALMERS GREEN, LONDON N13 5SU
Tel:020 8886 4693 Mobil: 07958 035 098

Project title: PROPOSED LAUNDERETTE

Project Address: PLENDER STREET
CAMDEN
LONDON NW1

Client: MR GAILAN ALI

Drawing title: PROPOSED FRONT ELEVATION & SECTION B-B

GENERAL PERMITTED DEVELOPMENT

Date: October 2016

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CAD & Drawn by: BB

Drawing No: 04/08

Drawn & Checked by: ER

File name: T & B95 Oct 2016

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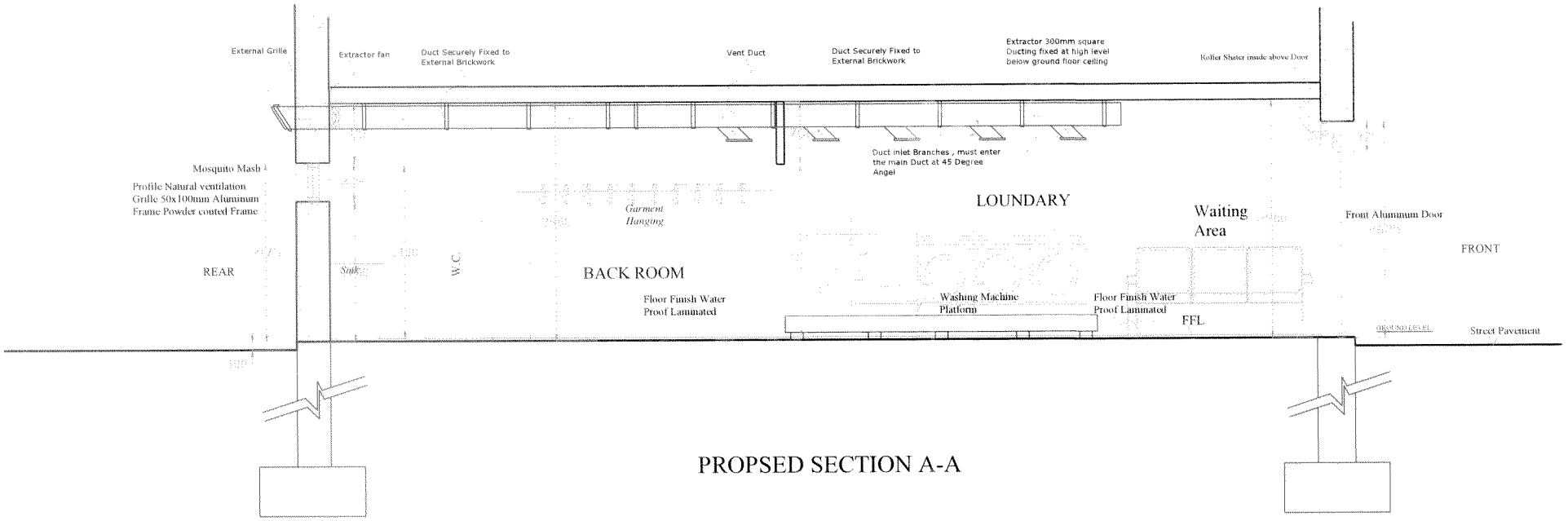

PROPSED SECTION A-A

ALL DIMENSIONS TO BE CHECKED ON SITE ONLY TO BE SCALED FOR PLANNING AND BUILDING REGULATIONS

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E RILEY ASSOCIATES
CHARTERED SURVEYORS
8 HUXLEY PLACE
PALMERS GREEN, LONDON N13 5SU
Tel:020 8886 4693 Mobil: 07968 035 096

Project title: PROPOSED LAUNDERETTE

Project Address: PLENDER STREET
CAMDEN
LONDON NW1

Client: MR GAILAN ALI

Drawing title: PROPOSED SECTION A-A

GENERAL PERMITTED DEVELOPMENT

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CAD & Drawn by: BB | Drawing No: 05/08

Drawn & Checked by: ER

File name: T & B95 Oct 2016

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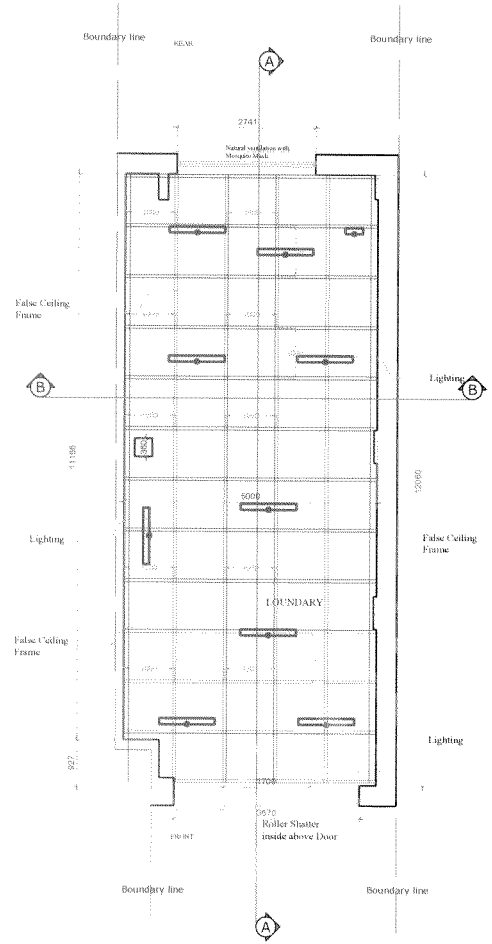

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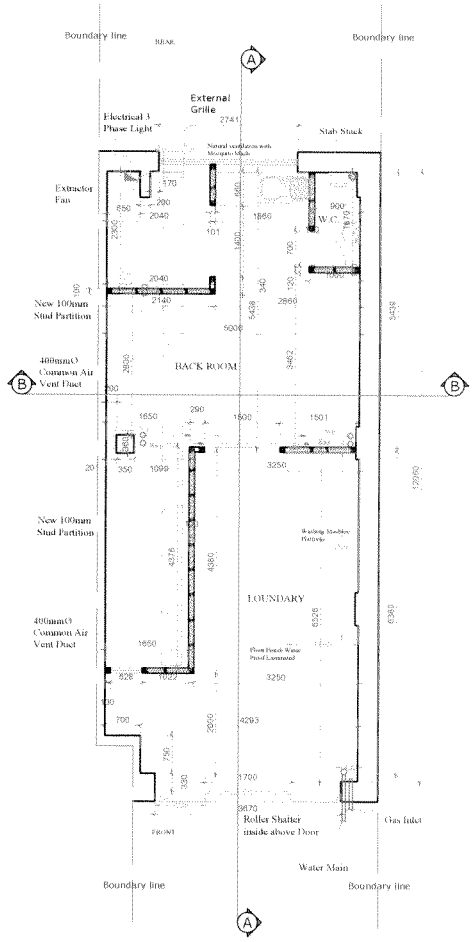

PROPOSED GROUND FLOOR PLAN
Working Drawing

ALL DIMENSIONS TO BE CHECKED ON SITE ONLY TO BE SCALED FOR PLANNING AND BUILDING REGULATIONS

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E RILEY ASSOCIATES
CHARTERED SURVEYORS
8 HUXLEY PLACE
PALMERS GREEN, LONDON N13 5SU
Tel 020 8886 4693 Mobil: 07956 025 096

Project title: PROPOSED LAUNDERETTE

Project Address: PLENDER STREET
CAMDEN
LONDON NW1

Client: MR GAILAN ALI

Drawing title: PROPOSED FALSE CEILING & WORKING DRAWING

GENERAL PERMITTED DEVELOPMENT

Date: October 2016 | Scale: 1:100 @A3

CAD & Drawn by: BB | Drawing No:

Drawn & Checked by: ER | 06/08

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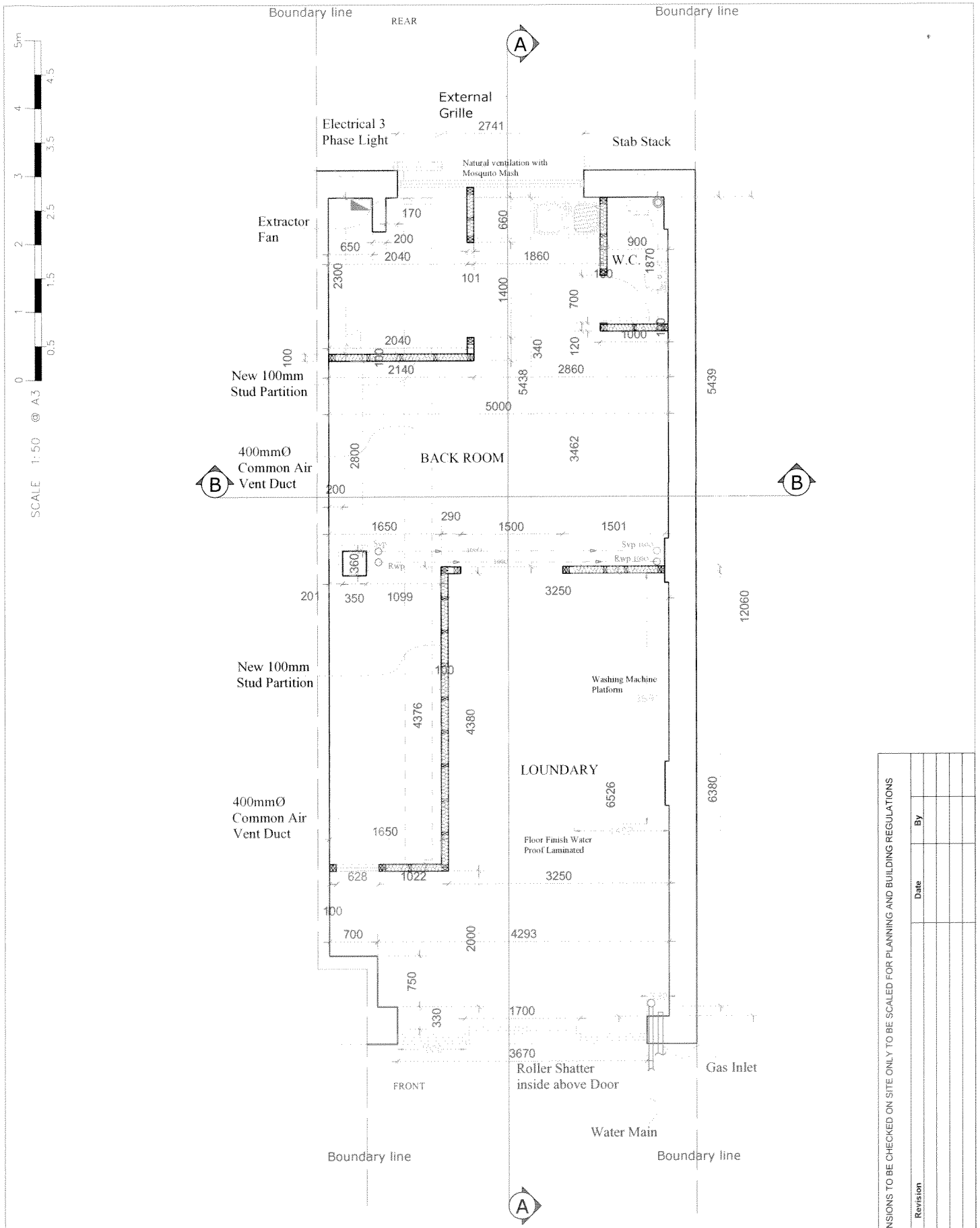

PROPOSED GROUND FLOOR PLAN
Working Drawing

ALL DIMENSIONS TO BE CHECKED ON SITE ONLY TO BE SCALED FOR PLANNING AND BUILDING REGULATIONS

Ref.	Revision	Date	By

GENERAL PERMITTED DEVELOPMENT

E RILEY ASSOCIATES
CHARTERED SURVEYORS
8 HUXLEY PLACE
PALMERS GREEN, LONDON N13 5SU
Tel: 020 8886 4693 Mobil: 07958 035 094

Project title: PROPOSED LAUNDERETTE

Project Address: PLENDER STREET, CAMDEN, LONDON NW1

Client: MR GAILAN ALI

Drawing title: PROPOSED FLOOR PLAN WORKING DRAWING

Date: October 2016

CAD & Drawn by: BB

Drawn & Checked by: ER

File name: I & B95 Oct 2016

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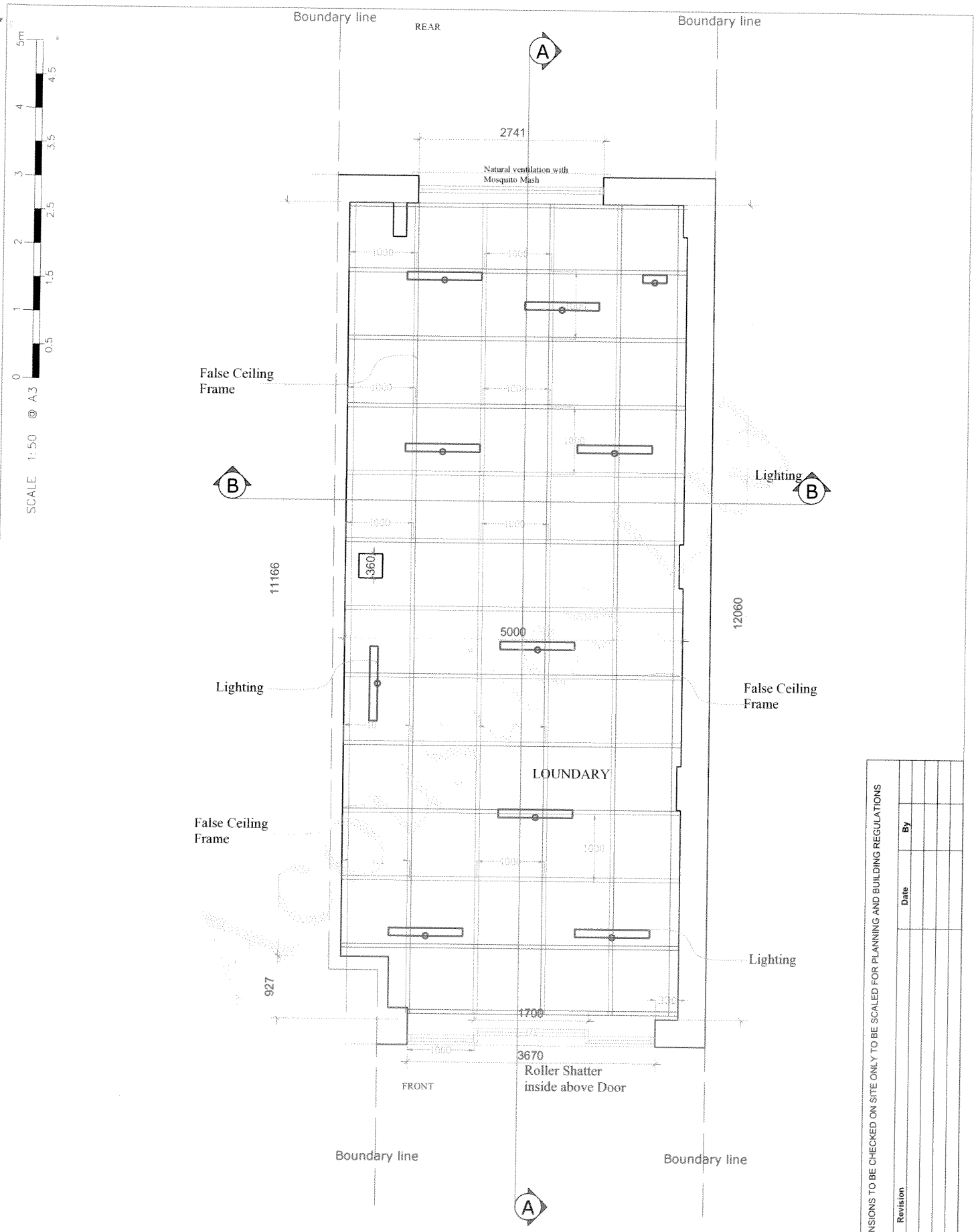
Drawing No:

07/08



PROPOSED GRID SYSTEM FALSE CEILING LIGHTING

ALL DIMENSIONS TO BE CHECKED ON SITE ONLY TO BE SCALED FOR PLANNING AND BUILDING REGULATIONS

Ref.	Revision	Date	By

GENERAL PERMITTED DEVELOPMENT

E RILEY ASSOCIATES
CHARTERED SURVEYORS
8 HUXLEY PLACE
PALMERS GREEN, LONDON N13 5SU
Tel:020 8886 4493 Mobil: 07998 035 096

Project title: PROPOSED LAUNDERETTE

Project Address: PLENDER STREET
CAMDEN
LONDON NW1

Client: MR GAILAN ALI

Drawing title: PROPOSED GRID SYSTEM FALSE CEILING LIGHTING

Date: October 2016

CAD & Drawn by: BB

Drawn & Checked by: ER

File name: T & B95 Oct 2016

Scale: 1:50 @A3

Drawing No: 08/08

Installation
Service

CCS

Consultation
Sales

Summary

Date: 11 August 2016
Proposed installation of laundry/dry cleaners at 70 Plender Street, London, NW1

Dryer Duct:

All gas heated clothes dryer has must comply to gas safe CoCCLNG1 regulations. A maximum air velocity of 10 m/s at this velocity providing the correct ducting is installed a sound level equal to and in most cases considerably below 45dB will be present at the outlet of the duck at distance of 3m.

The above can be calculated using the formula below.

$$Lw = 10 + 50 \log(10 \text{ m/s}) + 10 \log(\pi ((0.2 \text{ m}) / 2)2)$$

$$= 45 \text{ db}$$

As this is the maximum permissible velocity most manufacturers implement and Approximately 20% below so your noise level would also be considerably less.
In the unlikely event of a neighbour complaining of nuisance noise silences can be installed to bring the noise level below and the end so the outlet not the audible above normal traffic noise.

All drivers must also have a built-in windscreen to prevent Lynn to build up in the ductwork and emitted outside into the environment.

Enclosed are brochures of the proposed dryers to be installed containing considerable information, also a plant commissioning/report recently carried out in the Docklands containing detailed information of dryer and boiler missions. this premises have high-end apartments directly above the laundry and there are absolutely no issues. Considering these dryers are approximately 15 years old the new proposed dryers at 70 Plender Street will be a minimum of 10% more efficient.

Unit 10/11 Tilia Road, Clapton, London, E5 8JB
Tel: 020 8533 0704 (4 lines)
VAT Reg No: 415 5989 37 Company Registered in England No: 4437608

Dry cleaning machine:

All dry cleaning machines supplied and installed after 2004 must comply to SED (solvent emission directive) this permits a maximum of 20mg per kilogram of work processed as does this machine. Which already has solvent spillage try to separate two units and an ecological filter system.

However, as this machine has not been used for some time I would recommend a full overhaul including an upgrade to 5th edition which includes a carbon absorption filter system and a control system which monitors the level of solvent inside the machine and does not permit the opening of any doors until the concentration drops to below 100ppm.

This will reduce the solvent consumption to below 5mg per kilogram processed.

John Charlemagne

Qualifications:

Gas safe and pressure systems commercial laundry industrial forced draft gas burners.

CoCCLNG1, CLE1, CIGA1, ACS, CCN1, COCN1, OFCTEC.

Plant Commissioning / Service Record (Non Domestic)

Inspection Date: 14 April 2016 Unique Serial No: PCS-1464-6825-60984

Ref: Docklands Laundry

Gas Safe Reg No: 562054

Customer / Agent Details

Name: Docklands Laundry Service Ltd
Address: 149 Manchester Rd
LONDON
Postcode: E14 3DN
Telephone: +44 20 7515 2009 Mobile:

Site Details

Name: Docklands Laundry Service Ltd
Address: 149 Manchester Rd
LONDON
Postcode: E14 3DN
Telephone: +44 20 7515 2009 Mobile:

Registered Business Details

Name: CCS Ltd
Address: 10 Tilia Road
London
Postcode: E5 8JB
Telephone: 02032225062 Mobile: 07860274766

Appliance Details

Appliance No	1	2	3	4
Location	Rear Of Shop	Shop Floor	Shop floor	
Type	Hot Water Boiler	Gas Dryer	Clothes Dryer	
Manufacturer	Andrews	Electrolux Wascater	Electrolux	
Model	CSC39 GB	TT500 & T3530	2 Of T3290 And 2	
Serial No	CH 8043499	9906/0006618 &	20300 / 0026485.	
Burner Manufacturer (If different)	Same	Same	Same	
Flue Type	Open	Open	Open	

Combustion Checks

Appliance No	1		2		3		4	
Firing Mode	Low	High	Low	High	Low	High	Low	High
Heat input rating (kW)		64		40		21		
Gas burner pressure (mbar)		11.2		8		10.5		
Gas rate (m³/hr)		7.11		4.44		2.333		
Air/gas ratio control setting								
Ambient (room) temperature (°C)		23.6		23		23		
Flue gas temperature (°C)		128		75.5		75.6		
Flue gas temperature net (°C)		104.4		52.5		52.6		
Flue draught pressure (mbar)		-.012		NA		NA		
Oxygen (O_2) %		5.2		19.9		20		
Carbon Monoxide (CO) ppm		1		3		3		
Carbon Dioxide (CO_2) %		9.8		0.63		.62		
NOx %								
Excess air %		33.12						
CO / CO_2 Ratio		.0005						
Gross efficiency %		89.7		59.1		59.3		
CO flue dilution ppm								

Additional Safety Checks

Appliance No	1	2	3	4
Flue flow satisfactory?	Yes	Yes	Yes	
Spillage test satisfactory?	Yes	Yes	Yes	
Ventilation satisfactory? (Refer to ventilation section)	Yes	Yes	Yes	
Air/gas pressure switch operating correctly?	Yes	N/A	N/A	
Flame proving/safety devices operating correctly?	Yes	Yes	Yes	
Burner lock-out time (seconds)	2	3	3	
Temperature and limit thermostats working correctly?	Yes	Yes	Yes	
Appliance serviced?	Yes	Yes	Yes	
Gas booster(s)/compressor(s) operating correctly?	N/A	N/A	N/A	
Gas installation tightness test carried out?	Yes	Yes	Yes	
Gas installation pipework adequately supported?	Yes	Yes	Yes	
Gas installation pipework sleeved, labelled & painted?	N/A	N/A	Yes	
Chimney system installed in accordance with standards	Yes	Yes	Yes	
Fan-flue interlock operating correctly?	N/A	Yes	Yes	

Ventilation

Boiler room / Enclosure / Room

Free area low-level (cm²)	200
Free area high-level (cm²)	200
All ventilation grilles clear and unobstructed (Y / N)	

Mechnical ventilation flow rate

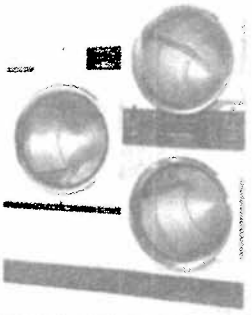
Inlet (m³/s)	
Extract (m³/s)	
Mechanical ventilation interlock operating correctly?	
All ventilation grilles clear and unobstructed (Y / N)	

ON-PREMISES LAUNDRY

Tumble Dryers and Stack Tumble Dryers

26 lb Tumble Dryer	55 lb Tumble Dryer
30 lb Tumble Dryer	30 lb Stack Tumble Dryer
35 lb Tumble Dryer	45 lb Stack Tumble Dryer

Speed Queen®



THE BEST IN CLASS JUST GOT BETTER.

100 years. It's a long time for any company to be at the forefront of an industry. And you'd think that a company that's been able to lead for that long must have a finely honed craft — a premier product. Well, you'd be right. For more than a century, Speed Queen has built a legacy on providing equipment that stands up to any commercial laundry challenge. We make no compromises in performance. We refuse to be outdone in reliability and efficiency. Our commitment to quality is only matched by our commitment to your success. The result? The most profitable machines in the industry — bar none.

Some of our competitors may think that a residential machine wrapped in a rugged exterior passes for commercial grade. We believe that strength comes from within. Speed Queen machines are built specifically for the commercial environment. We use metal where others use plastic. Our world-class Test Lab rigorously pushes our products far beyond the conditions they'll face in the field. We believe in being there when our customers need us most. And we go the extra mile at every point of our manufacturing process to ensure that our machines reflect that belief.

For commercial laundry equipment designed for use in fire departments, health care facilities, hotels, correctional facilities, spas, salons, athletics organizations or another industry application, you can rely on the proven performance of Speed Queen to make your life simpler and more productive.

Made in America and refined for more than a century, Speed Queen Laundry equipment represents a secure investment for your on-premises laundry facility.

DEDICATED TO A HIGHER STANDARD

Uncomplicated. Uncompromising. Unmatched. Enjoy heavy-duty construction that will provide reliable operation for years to come.

Our single pocket tumble dryers feature a concentrated airflow pattern and sealed cylinder rims to ensure maximum air utilization and energy savings. This superior drying performance helps laundries maximize throughput to meet the daily workload without the need for added shifts or costly overtime. Our tumble dryers are designed with fewer moving parts, so that you'll face fewer maintenance problems and less wear and tear. We make it even easier with a large, easy-to-clean lint compartment and a heavy-duty door hinge designed to withstand heavy usage.

FASTEST MOST EFFICIENT DRYING PROCESS

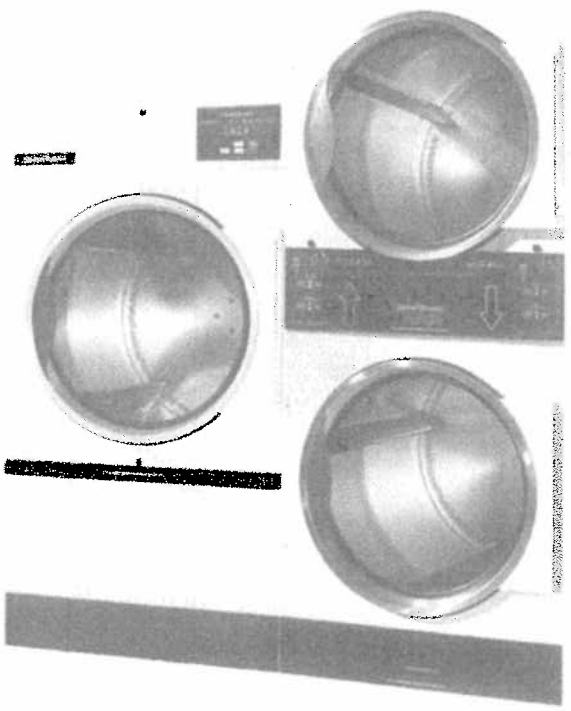
An air flow pattern ensures maximum air utilization for labor and energy savings.

UNMATCHED RELIABILITY

Quality construction for reliable performance that is backed with a 3-year warranty.

EASY MAINTENANCE

Large, easy to clean lint compartment simplifies clean-up.



OVER-DRY PREVENTION TECHNOLOGY (OPT)

Reduce linen, labor and utility costs with the precise drying performance of OPT.

REVERSING CYLINDER OPTION (FOR SINGLE POCKET MODELS)

Ensures even drying and prevents tangling for easy removal of loads.

QUANTUM GOLD

Quantum Gold offers three modes of operation (time, auto and moisture dry) along with the flexibility of 30 programmable cycles and optional moisture sensing technology (OPT) that prevents over drying, saving time and energy.

DUAL DIGITAL

Set drying time, temperature and cool down. Features include one touch cycle repeat, automatic extended tumble and large digital countdown display.

Speed Queen.

ON PREMISES TUMBLE DRYER SPECIFICATIONS

Capacity	25 lb	30 lb	35 b	55 lb	30 lb stack	45 lb stack
Width	28"	28"	31-1/2"	34-1/2"	31-1/2"	34-1/2"
Depth	40-7/8"	46-7/8"	46-7/8"	53-5/8"	42-7/8"	48-5/8"
Height	63-7/8"	63-7/8"	63-7/8"	66-3/4"	76-1/4"	81-1/16"
Cylinder Diameter	26-1/2"	26-1/2"	30"	33"	30"	33"
Cylinder Depth	24"	30"	30"	35"	26"	30"
Cylinder Volume	7.7 cu. ft.	9.6	12.3	17.3	10.6	14.8
Reversing Cylinder	Option	Option	Option	Option	N/A	N/A
Door Opening Size	22-11/16"	22-11/16"	22-11/16"	26-7/8"	22-5/8"	26-7/8"
Energy data						
Gas Models - Per Pocket	64,000 Btu/hr	73,000 Btu/hr	90,000 Btu/hr	112,000 Btu/hr	73,000 Btu/hr	95,000 Btu/hr
Steam Models - 100 psi	135,000 Btu/hr	135,000 Btu/hr	166,000 Btu/hr	N/A	111,000 Btu/hr	N/A
Electric Models	12KW	21KW	24KW	27KW	21KW	N/A
Gas Connections	Gas 1/2" NPT	Gas 1/2" NPT	Gas 1/2" NPT	Gas 1/2" NPT	Gas 1/2" NPT	Gas 1/2" NPT
Plumbing Connections - Steam	3/4" NPT	3/4" NPT	3/4" NPT	N/A	3/4" NPT	N/A
Air Outlet	6	6	8	8	1 x 8	1 x 10
Motor - HP	1/4	1/4	1/4	1/2	2 x 1/4	2 x 1/2
Airflow	500 cfm	500 cfm	650 cfm	700 cfm	2 x 400 cfm	2 x 600 cfm
Net Weight	299 lb	331 lb	361 lb	435 lb	544 lb	673 lb
Electrical Specs Gas & Steam	Amps-Non Rev (Rev)	Amps-Non Rev (Rev)	Amps-Non Rev (Rev)	Amps-Non Rev (Rev)	Amps	Amps
100/200-220/60/1	11/5.8	11/5.8	11/5.8	9.8/4.9	22/11.6	N/A
120/208-240/60/1	12/6.7	12/6.7	12/6.7	9.2/6.5	16/8.0	N/A
200-208/240/60/3	3.2/3.2 (4/4)	3.2/3.2 (4/4)	3.2/3.2 (4/4)	4.0/3.9 (4/4.5)	6.4/6.4	9.6/9.6
208-240/60/1	N/A	N/A	N/A	N/A	N/A	12.0
380/60/3	1.5 (2)	1.5 (2)	1.5 (2)	N/A	3.0	N/A
460-480/60/3	1.6 (2)	1.6 (2)	1.6 (2)	N/A	3.3	N/A
Electric						
208/60/1	64	108	122	129	N/A	
240/60/1	57	94	107	115	N/A	
200/60/1	64	108	122	125	N/A	
200-208/60/3	37 (37)	62 (62)	71 (71)	79 (79)	62 x 2	
240/60/3	33 (33)	54 (54)	62 (62)	65 (65)	54 x 2	
380/60/3	20 (20)	33 (33)	38 (38)	N/A	33 x 2	
460-480/60/3	16 (16)	27 (27)	31 (31)	N/A	27 x 2	
Shipping Weight	332 lb	364 lb	394 lb	476 lb	582 lb	718 lb
Shipping Width	30"	30"	33"	35-1/2"	32-1/2"	35-1/2"
Shipping Depth	43"	49"	49"	59"	47"	54"
Shipping Height	69"	69"	69"	72"	81"	85"
Agency Approvals	CSA, CE	CSA, CE	CSA, CE	CSA, CE	CSA, CE	CSA, CE

Tumble dryer models are made to suit a variety of electrical service characteristics. See your Speed Queen distributor for specifications. For further details on installation, refer to Installation, Operation and Maintenance Instructions supplied with the tumble dryer. Amperage ratings available in Installation Manual. For the most accurate information, the installation guide should be used for all design and construction purposes. Due to continuous product improvements, design and specifications subject to change without notice. The quality management system of Alliance Laundry Systems' Ripon facility has been registered to ISO 9001:2000.

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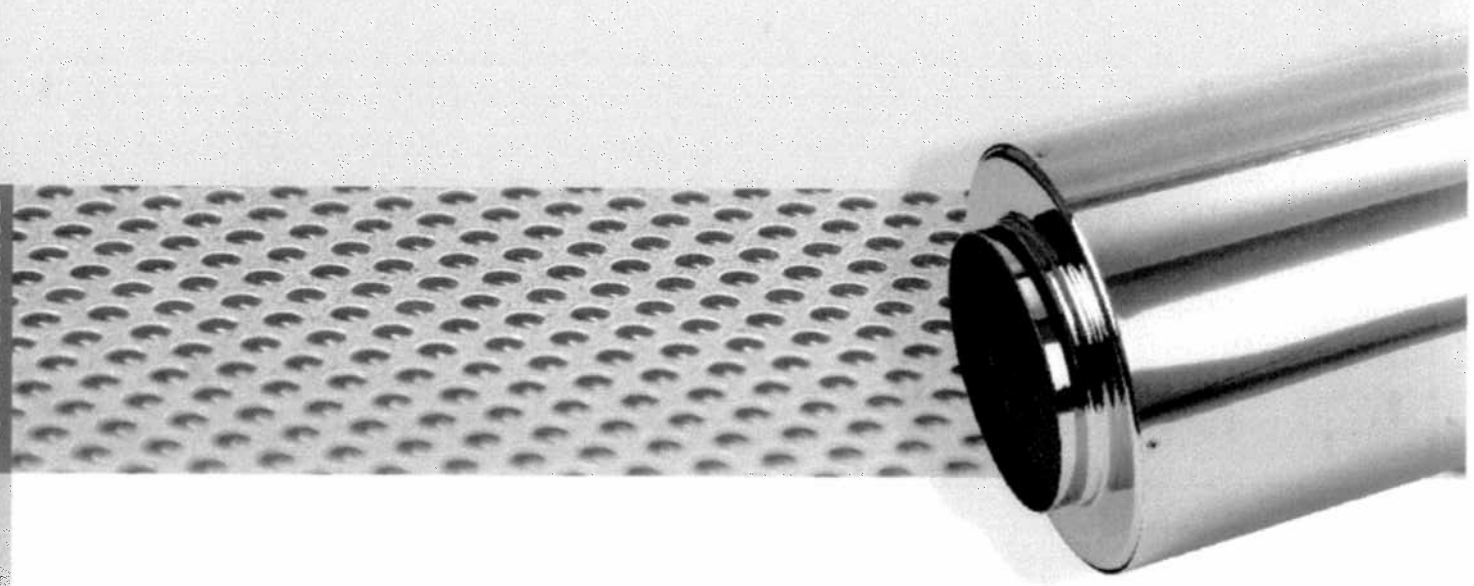
APPENDIX C – PLANT NOISE CALCULATION SHEET

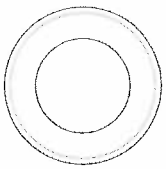
Description	Parameter	Octave Band Centre Frequency, Hz								
		63 Hz	125 Hz	250 Hz	500 Hz	1KHz	2KHz	4KHz	8 KHz	dBA
Fan Sound Power Level, *Lw*	Outlet	77	80	77	73	70	67	61	52	-
Attenuator CP01-M40-030	Insertion Loss	-1	-2	-4	-11	-15	-15	-12	-8	-
Straight Section Attenuation/m	Unlined Circular Duct	-0.7	-0.7	-0.7	-0.1	-0.2	-0.2	-0.2	-	-
Duct Attenuation	17.8 m	-12.4	-12.4	-12.4	-1.8	-2.8	-2.8	-2.8	-0.9	-
Losses per bend	400 mm	0	0	0	-1	-2	-3	-3	-	-
Bend Losses	2	0	0	0	-2	-4	-6	-6	-5	-
End Reflection Loss	400 mm	-10	-5	-2	-1	0	0	0	0	-
Total Duct Losses	400 - 800	-22.4	-17.4	-14.4	-4.8	-6.8	-8.8	-8.8	-	-
Q Radiation Pattern	2	3	3	3	3	3	3	3	0	-
Distance Loss	3.0 m	-21	-21	-21	-21	-21	-21	-21	-21	-
Directivity Losses	90	0	0	0	0	0	0	0	0	-
Screening Losses	Barrier	0	0	0	0	0	0	0	-	-
Calculated Noise Level at Receptor		36	43	41	40	31	26	23	18	**39**

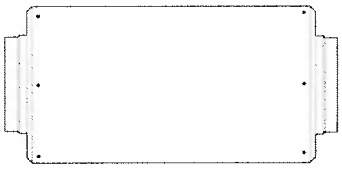
ACOUSTICA

SELECTED DISTRIBUTION PRODUCTS



INNOVATION IN NOISE CONTROL





SPIGOTTED DUCT MOUNTED SILENCER

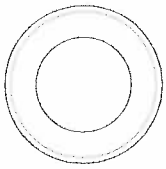
Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

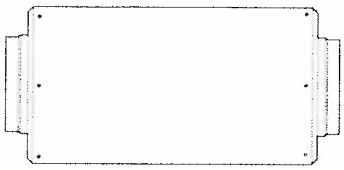
- Fits directly into ISO diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- 160mm and 300mm diameter available
- Special lengths on request

TYPICAL NOISE REDUCTION (dB) - CENTRE BAND FREQUENCY

PRODUCT	DIA	LENGTH	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	MASS
CP01-M10-030	100	300mm	3	4	9	17	23	26	25	14	3 Kg
CP01-M10-060		600mm	5	8	15	33	39	40	36	20	5 Kg
CP01-M10-090		900mm	10	13	21	40	45	40	36	24	7 Kg
CP01-M10-120		1200mm	12	15	23	42	47	42	38	26	9 Kg
CP01-M12-030	125	300mm	3	3	8	16	21	24	22	12	3 Kg
CP01-M12-060		600mm	4	8	13	30	35	35	31	15	6 Kg
CP01-M12-090		900mm	9	12	18	37	41	38	34	20	8 Kg
CP01-M12-120		1200mm	11	15	21	40	46	41	36	23	10 Kg
CP01-M15-030	150	300mm	3	3	6	14	19	23	22	11	4 Kg
CP01-M15-060		600mm	4	7	12	23	30	36	31	15	6 Kg
CP01-M15-090		900mm	8	9	15	31	37	37	34	18	9 Kg
CP01-M15-120		1200mm	10	14	17	34	41	40	36	20	11 Kg
CP01-M20-030	200	300mm	2	3	6	13	17	20	18	9	4 Kg
CP01-M20-060		600mm	4	6	10	20	27	32	20	11	8 Kg
CP01-M20-090		900mm	7	9	14	32	39	36	26	15	11 Kg
CP01-M20-120		1200mm	10	12	17	35	41	44	28	16	15 Kg
CP01-M25-030	250	300mm	2	3	6	12	16	19	17	8	5 Kg
CP01-M25-060		600mm	3	6	10	19	25	29	18	10	9 Kg
CP01-M25-090		900mm	5	8	12	24	30	30	22	14	13 Kg
CP01-M25-120		1200mm	7	10	15	31	37	38	26	15	17 Kg

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.





SPIGOTTED DUCT MOUNTED SILENCER

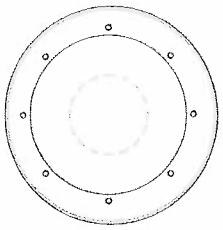
Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

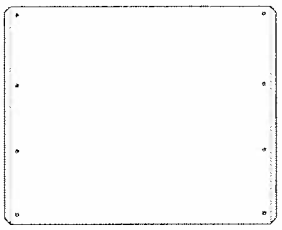
- Fits directly into ISO diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- 160mm and 300mm diameter available
- Special lengths on request

TYPICAL NOISE REDUCTION (dB) - CENTRE BAND FREQUENCY

PRODUCT CODE	DIA	LENGTH	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	MASS
CP01-M31-030	315	300mm	1	3	6	12	15	18	16	8	6 Kg
CP01-M31-060		600mm	3	5	8	16	21	22	16	14	11 Kg
CP01-M31-090		900mm	4	7	10	20	31	28	17	14	15 Kg
CP01-M31-120		1200mm	6	9	14	23	32	32	18	15	20 Kg
CP01-M35-030	355	300mm	1	3	6	12	15	18	16	8	7 Kg
CP01-M35-060		600mm	3	5	8	16	21	22	16	14	12 Kg
CP01-M35-090		900mm	4	7	10	20	31	28	17	14	18 Kg
CP01-M35-120		1200mm	6	9	14	23	32	32	18	15	23 Kg
CP01-M40-030	400	300mm	1	2	4	11	15	15	12	8	7 Kg
CP01-M40-060		600mm	2	4	7	14	17	18	14	11	12 Kg
CP01-M40-090		900mm	3	6	9	18	26	23	15	12	18 Kg
CP01-M40-120		1200mm	5	8	13	22	30	27	17	12	23 Kg
CP01-M45-030	450	300mm	1	1	4	10	14	15	12	7	8 Kg
CP01-M45-060		600mm	2	4	6	14	16	16	13	11	15 Kg
CP01-M45-090		900mm	3	6	8	17	24	21	15	11	22 Kg
CP01-M45-120		1200mm	4	8	13	20	29	25	16	11	32 Kg
CP01-M50-030	500	300mm	1	1	3	10	14	14	11	7	9 Kg
CP01-M50-060		600mm	2	4	6	14	16	16	13	11	16 Kg
CP01-M50-090		900mm	3	6	8	17	24	21	15	11	24 Kg
CP01-M50-120		1200mm	4	8	12	19	28	23	16	12	32 Kg

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.





FAN MOUNTED SILENCER

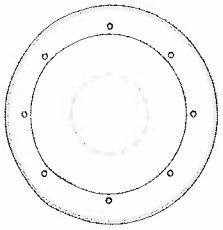
Available in two standard lengths C Series silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated liner. The central pod (code P) is an option to increase the insertion loss, however it will add resistance.

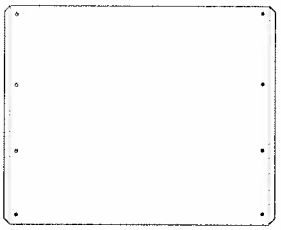
- Fits directly onto ISO diameter fans
- Standard lengths 1 Diameter & 2 Diameter (1D & 2D)
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request

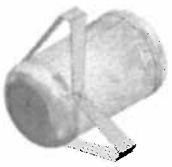
INSERTION LOSS (dB) - CENTRE BAND FREQUENCY

PRODUCT CODE	DIA	LENGTH	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	MASS	A PATTERN	B PATTERN
CP03-C*-0250-1D	250	250mm	1	1	3	8	11	9	8	8	9 Kg	8 x M8 on 286 PCD	6 x M8 on 286 PCD
CP03-C*-0250-2D		500mm	2	2	3	9	12	11	8	7	11 Kg		
CP03-C*P-0250-1D		250mm	2	6	8	12	20	23	20	17	15 Kg		
CP03-C*P-0250-2D		500mm	3	11	13	20	28	28	23	18	18 Kg		
CP03-CA-0315-1D	315	315mm	1	2	4	9	11	10	9	7	9 Kg	8 x M8 on 355 PCD	as A
CP03-CA-0315-2D		630mm	2	2	4	9	11	10	9	7	11 Kg		
CP03-CAP-0315-1D		315mm	2	7	8	14	22	25	22	19	15 Kg		
CP03-CAP-0315-2D		630mm	3	13	14	23	30	30	25	20	18 Kg		
CP03-CA-0355-1D	355	355mm	2	3	5	11	13	11	10	8	11 Kg	8 x M8 on 395 PCD	as A
CP03-CA-0355-2D		710mm	3	4	7	14	18	15	11	10	18 Kg		
CP03-CAP-0355-1D		355mm	2	6	8	11	22	24	21	16	13 Kg		
CP03-CAP-0355-2D		710mm	3	10	15	22	29	30	29	22	22 Kg		
CP03-C*-0400-1D	400	400mm	2	3	5	10	13	11	9	8	9 Kg	8 x M8 - 450 PCD	12 x M8 - 438 PCD
CP03-C*-0400-2D		800mm	3	4	8	14	18	14	11	9	11 Kg		
CP03-C*P-0400-1D		400mm	2	7	9	15	23	25	21	17	15 Kg		
CP03-C*P-0400-2D		800mm	3	10	14	24	30	29	28	21	18 Kg		
CP03-C*-0450-1D	450	450mm	2	3	6	12	13	11	9	7	15 Kg	8 x M10 - 500 PCD	12 x M8 - 487 PCD
CP03-C*-0450-2D		900mm	3	4	8	17	18	15	11	10	27 Kg		
CP03-C*P-0450-1D		450mm	2	6	8	16	23	23	21	16	18 Kg		
CP03-C*P-0450-2D		900mm	3	7	12	22	29	29	25	20	32 Kg		
CP03-C*-0500-1D	500	500mm	2	3	6	14	14	12	10	5	18 Kg	12 x M10 - 560 PCD	12 x M8 - 541 PCD
CP03-C*-0500-2D		1000mm	3	7	8	19	20	17	14	11	32 Kg		
CP03-C*P-0500-1D		500mm	2	7	9	17	24	24	20	16	22 Kg		
CP03-C*P-0500-2D		1000mm	4	10	16	26	29	29	29	20	37 Kg		

Replace * in code with A or B for connection pattern. Insertion loss data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, regenerated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.







FAN MOUNTED SILENCER

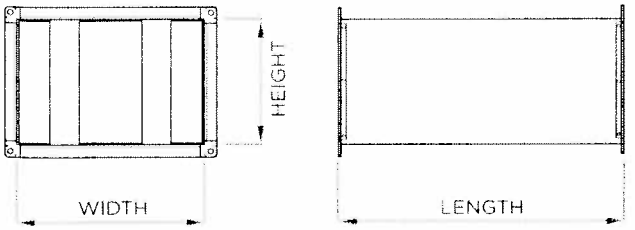
Available in two standard lengths C Series silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated liner. The central pod (code P) is an option to increase the insertion loss, however it will add resistance.

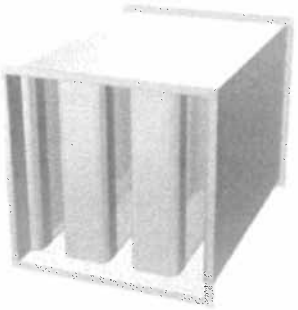
- Fits directly onto ISO diameter fans
- Standard lengths 1 Diameter & 2 Diameter (1D & 2D)
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request

INSERTION LOSS (dB) - CENTRE BAND FREQUENCY

PRODUCT CODE	DIA	LENGTH	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	MASS	A PATTERN	B PATTERN
CP03-C*-0560-1D	560	560mm	2	4	7	14	14	9	9	7	22 Kg	12 x M10-620 PCD	16 x M10-605 PCD
CP03-C*-0560-2D		1120mm	3	6	10	19	20	14	12	10	48 Kg		
CP03-C*P-0560-1D		560mm	3	7	9	18	24	24	20	15	26 Kg		
CP03-C*P-0560-2D		1120mm	4	9	17	27	29	28	23	23	57 Kg		
CP03-C*-0630-1D	630	630mm	2	5	7	15	13	9	9	7	26 Kg	12 x M10-690 PCD	16 x M10-674 PCD
CP03-C*-0630-2D		1260mm	3	5	9	18	25	22	18	13	48 Kg		
CP03-C*P-0630-1D		630mm	4	7	13	21	21	14	13	12	32 Kg		
CP03-C*P-0630-2D		1260mm	5	9	18	28	30	29	24	19	57 Kg		
CP03-C*-0710-1D	710	710mm	3	5	9	15	14	10	9	8	32 Kg	16 x M10-770 PCD	16 x M10-751 PCD
CP03-C*-0710-2D		1420mm	4	9	16	22	23	17	13	9	59 Kg		
CP03-C*P-0710-1D		710mm	3	5	10	19	25	22	18	14	39 Kg		
CP03-C*P-0710-2D		1420mm	5	9	17	28	29	30	26	20	71 Kg		
CP03-C*-0800-1D	800	800mm	3	5	9	16	14	10	8	8	40 Kg	16 x M10-860 PCD	24 x M10-837 PCD
CP03-C*-0800-2D		1600mm	4	6	10	21	23	17	12	10	74 Kg		
CP03-C*P-0800-1D		800mm	4	5	10	15	25	22	19	14	49 Kg		
CP03-C*P-0800-2D		1600mm	5	8	18	29	30	29	27	19	90 Kg		
CP03-C*-0900-1D	900	900mm	3	5	10	17	15	11	9	8	55 Kg	16 x M12-970 PCD	24 x M10-934 PCD
CP03-C*-0900-2D		1800mm	4	6	13	22	21	14	12	11	102 Kg		
CP03-C*P-0900-1D		900mm	5	6	11	21	23	22	17	13	67 Kg		
CP03-C*P-0900-2D		1800mm	5	11	18	29	30	26	19	16	102 Kg		
CP03-C*-1000-1D	1000	1000mm	4	6	11	17	15	11	9	8	66 Kg	16 x M12-1070 PCD	24 x M10-1043 PCD
CP03-C*-1000-2D		2000mm	5	10	16	23	23	16	13	11	124 Kg		
CP03-C*P-1000-1D		1000mm	5	6	13	22	25	21	17	14	82 Kg		
CP03-C*P-1000-2D		2000mm	5	10	19	29	30	27	22	18	151 Kg		

Replace * in code with A or B for connection pattern. Insertion loss data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with the relevant dynamic corrections.





RECTANGULAR DUCT SILENCER

Available in seven standard lengths R02 range of Rectangular Duct Mounted Silencers have excellent attenuation properties, achieved with sound absorbing infill splitters, retained in the attenuator casing by a perforated liner.

The resistance to airflow is a function of the face velocity and length. It is not recommended to select the R02 Silencers with a face velocity above the values shown, without asking advice regarding re-generated self noise. We can advise on the selections and can perform system analysis to ensure the correct unit is specified.

INSERTION LOSS (dB) - CENTRE BAND FREQUENCY

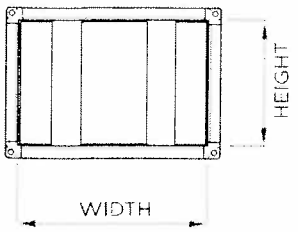
RESISTANCE TO AIRFLOW (Pa)

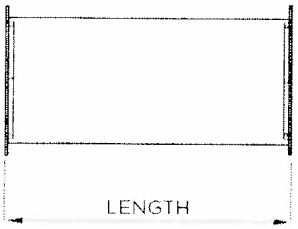
CODE	LENGTH	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	1.0m/s	1.5m/s	2.0m/s	2.5m/s
	600mm	7	12	20	31	39	40	38	27	9 pa	29 pa	52 pa	80 pa
	900mm	9	16	25	42	50	50	50	41	9 pa	30 pa	54 pa	82 pa
	1200mm	11	20	34	50	50	50	50	48	10 pa	31 pa	55 pa	84 pa
R02 2	1500mm	13	24	41	50	50	50	50	50	10 pa	32 pa	56 pa	85 pa
	1800mm	15	30	47	50	50	50	50	50	11 pa	32 pa	57 pa	88 pa
	2100mm	16	33	50	50	50	50	50	50	11 pa	34 pa	57 pa	90 pa
	2400mm	20	38	50	50	50	50	50	50	12 pa	36 pa	60 pa	95 pa

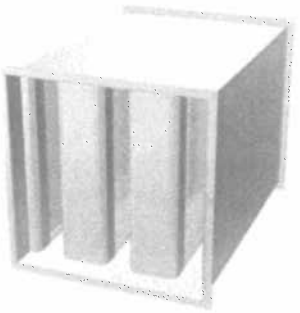
CODE	LENGTH	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	1.5m/s	2.0m/s	2.5m/s	3.0m/s
	600mm	6	9	13	25	31	32	24	20	13 pa	22 pa	35 pa	50 pa
	900mm	7	12	18	33	42	42	37	28	13 pa	22 pa	35 pa	50 pa
	1200mm	8	15	25	42	50	50	46	34	13 pa	22 pa	35 pa	50 pa
R02 3	1500mm	9	18	30	47	50	50	50	40	13 pa	22 pa	35 pa	50 pa
	1800mm	10	20	35	49	50	50	50	42	15 pa	27 pa	42 pa	60 pa
	2100mm	12	23	40	50	50	50	50	49	15 pa	27 pa	42 pa	60 pa
	2400mm	13	26	40	50	50	50	50	50	15 pa	27 pa	42 pa	60 pa

CODE	LENGTH	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	1.5m/s	2.0m/s	2.5m/s	3.0m/s
	600mm	5	8	12	23	30	30	23	18	15 pa	23 pa	33 pa	43 pa
	900mm	6	10	16	30	37	37	30	24	15 pa	23 pa	34 pa	44 pa
	1200mm	7	13	22	38	47	47	40	29	16 pa	24 pa	35 pa	46 pa
R02 4	1500mm	8	16	26	42	49	49	45	32	16 pa	25 pa	35 pa	48 pa
	1800mm	9	18	31	46	50	49	47	34	17 pa	25 pa	35 pa	50 pa
	2100mm	11	20	36	50	50	50	50	41	18 pa	26 pa	36 pa	51 pa
	2400mm	12	22	40	50	50	50	50	47	18 pa	26 pa	38 pa	52 pa

Insertion loss data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.







RECTANGULAR DUCT SILENCER

Available in seven standard lengths R02 range of Rectangular Duct Mounted Silencers have excellent attenuation properties, achieved with sound absorbing infill splitters, retained in the attenuator casing by a perforated liner.

The resistance to airflow is a function of the face velocity and length. It is not recommended to select the R02 Silencers with a face velocity above the values shown, without asking advice regarding re-generated self noise. We can advise on the selections and can perform system analysis to ensure the correct unit is specified.

INSERTION LOSS (dB) - CENTRE BAND FREQUENCY

RESISTANCE TO AIRFLOW (Pa)

CODE	LENGTH	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	1.5m/s	2.0m/s	2.5m/s	3.0m/s
	600mm	4	6	11	19	24	23	18	12	5 pa	8 pa	13 pa	18 pa
	900mm	4	6	12	26	30	31	22	16	5 pa	8 pa	13 pa	18 pa
	1200mm	5	9	18	32	40	39	28	19	5 pa	8 pa	13 pa	18 pa
R02 5	1500mm	7	11	23	37	45	45	32	22	5 pa	8 pa	13 pa	18 pa
	1800mm	8	13	25	44	50	50	37	24	8 pa	10 pa	15 pa	22 pa
	2100mm	9	16	28	50	50	50	45	29	8 pa	10 pa	15 pa	22 pa
	2400mm	11	19	33	50	50	50	50	32	8 pa	10 pa	15 pa	22 pa

CODE	LENGTH	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	2.5m/s	3.0m/s	4.0m/s	5.0m/s
	600mm	2	3	6	7	12	14	11	10	12 pa	16 pa	23 pa	43 pa
	900mm	3	6	11	19	24	24	15	11	12 pa	16 pa	24 pa	44 pa
	1200mm	4	7	15	26	29	32	20	14	13 pa	17 pa	25 pa	45 pa
R02 6	1500mm	5	8	19	33	39	39	25	17	13 pa	17 pa	25 pa	46 pa
	1800mm	6	10	21	36	45	45	28	19	13 pa	18 pa	26 pa	47 pa
	2100mm	7	13	25	43	50	50	33	21	14 pa	19 pa	27 pa	51 pa
	2400mm	7	15	28	49	50	50	38	25	15 pa	19 pa	28 pa	54 pa

CODE	LENGTH	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	3.0m/s	4.0m/s	5.0m/s	6.0m/s
	600mm	2	2	5	12	12	11	7	4	9 pa	15 pa	22 pa	35 pa
	900mm	2	4	7	15	19	18	10	5	9 pa	15 pa	24 pa	35 pa
	1200mm	3	5	10	19	24	23	14	6	9 pa	16 pa	25 pa	36 pa
R02 8	1500mm	3	7	12	24	30	30	19	7	9 pa	16 pa	24 pa	36 pa
	1800mm	4	8	16	27	35	36	20	8	10 pa	17 pa	27 pa	37 pa
	2100mm	5	9	20	33	42	42	26	10	11 pa	18 pa	26 pa	38 pa
	2400mm	5	10	23	38	45	45	28	12	12 pa	18 pa	28 pa	40 pa

Insertion loss data is derived from contextual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

LIMPET FLANGE

Limpet Flanges are a unique product that has been designed to speed installation times with dual arcuated slots. The integral groove ensures a positive location for the installation of flexible connections. The one piece seamless construction is hot dip galvanised to provide longevity internally or externally.

LIMPET FOOT

Limpet Fan Support Feet are a unique product that has been designed to speed installation times with dual arcuated slots. Integral radial and fold stiffening ribs add greatly to the strength.

LIMPET FAST FLEX

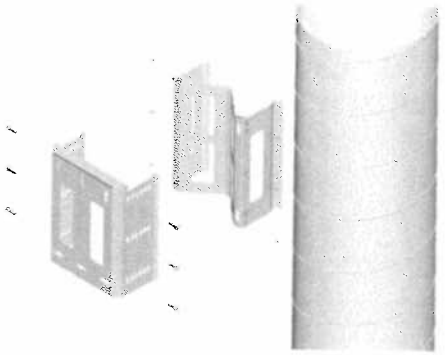
Limpet Fast Flex are a unique product that has been designed to speed up installation times with an integrated tightening band. The stainless steel is encapsulated within the material during construction allowing a single handed installation, significantly reducing fitting times. The part codes are for pairs.

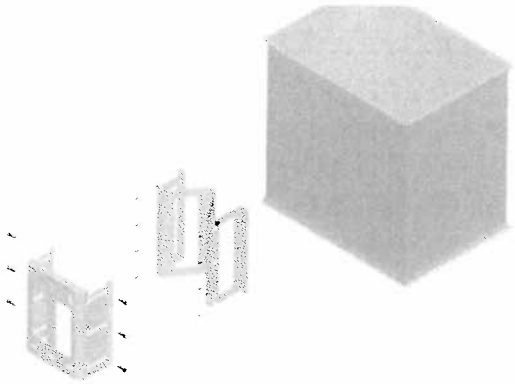
PRODUCT CODES

FLANGE CODE - PAIR	DIA	PATTERN A	PATTERN B	MASS
IP01-LFLAN-0250	250	8 x M8-286 PCD	6 x M8-286 PCD	1.4 Kg
IP01-LFLAN-0315	315	8 x M8-355 PCD	as A	1.7 Kg
IP01-LFLAN-0355	355	8 x M8-395 PCD	as A	2.0 Kg
IP01-LFLAN-0400	400	8 x M8-450 PCD	12 x M8-438 PCD	2.2 Kg
IP01-LFLAN-0450	450	8 x M10-500 PCD	12 x M8-487 PCD	2.4 Kg
IP01-LFLAN-0500	500	12 x M10-560 PCD	12 x M8-541 PCD	2.8 Kg
IP01-LFLAN-0560	560	12 x M10-620 PCD	16 x M10-605 PCD	3.1 Kg
IP01-LFLAN-0630	630	12 x M10-690 PCD	16 x M10-674 PCD	3.5 Kg

FOOT CODE - PAIR	DIA	PATTERN A	PATTERN B	MASS
IP03-LFOOT-0250	250	8 x M8-286 PCD	6 x M8-286 PCD	0.8 Kg
IP03-LFOOT-0315	315	8 x M8-355 PCD	as A	1.0 Kg
IP03-LFOOT-0355	355	8 x M8-395 PCD	as A	1.1 Kg
IP03-LFOOT-0400	400	8 x M8-450 PCD	12 x M8-438 PCD	1.4 Kg
IP03-LFOOT-0450	450	8 x M10-500 PCD	12 x M8-487 PCD	1.6 Kg
IP03-LFOOT-0500	500	12 x M10-560 PCD	12 x M8-541 PCD	1.8 Kg
IP03-LFOOT-0560	560	12 x M10-620 PCD	16 x M10-605 PCD	2.4 Kg
IP03-LFOOT-0630	630	12 x M10-690 PCD	16 x M10-674 PCD	2.7 Kg

FAST FLEX CODE - PAIR	DIA	MASS
IP02-LFLEX-0250	250	0.4 Kg
IP02-LFLEX-0315	315	0.4 Kg
IP02-LFLEX-0355	355	0.5 Kg
IP02-LFLEX-0400	400	0.6 Kg
IP02-LFLEX-0450	450	0.6 Kg
IP02-LFLEX-0500	500	0.7 Kg
IP02-LFLEX-0560	560	0.8 Kg





LIMPET DUCT MOUNTING SYSTEM

Available in eight different diameters the Limpet duct mount system dramatically reduces installation time for vertical ductwork, and provides the confidence of a fully tested adjustable suspension system.

RECTANGULAR DUCT MOUNTING SYSTEM

Available in three different sizes the Limpet duct mount system dramatically reduces installation time for vertical ductwork, and provides the confidence of a fully tested adjustable suspension system.

PRODUCT CODES

CIRCULAR CODE	DIA	RATED LOAD	MASS
IP07-LDMC-0250	250	100 Kg	2.3 Kg
IP07-LDMC-0315	315	150 Kg	3.8 Kg
IP07-LDMC-0355	355	150 Kg	4.8 Kg
IP07-LDMC-0400	400	200 Kg	6.1 Kg
IP07-LDMC-0450	450	200 Kg	7.7 Kg
IP07-LDMC-0500	500	250 Kg	13.4 Kg
IP07-LDMC-0560	560	250 Kg	16.9 Kg
IP07-LDMC-0630	630	250 Kg	21.7 Kg

CIRCULAR CODE	SIZE	RATED LOAD	MASS
IP07-LDMR-0600	200-600	100 Kg	2.5Kg
IP07-LDMR-0900	600-900	150 Kg	6.9Kg
IP07-LDMR-1200	900-1200	250 Kg	14.5Kg