

THE BRITISH MUSEUM - 41 RUSSELL SQUARE REFURBISHMENT

PRINGLE RICHARDS SHARRATT | DESIGN AND ACCESS STATEMENT APPENDICES
APPENDIX D - PLANNING -AND LISTED BUILDING CONSENT APPLICATION PRE-
APPLICATION FEEDBACK RESPONSE REPORT



30th April 2018 - V1
PRINGLE RICHARDS SHARRATT LIMITED
Studio 4,
33, Stannary St, London
SE11 4AA
T: 020 7793 2828
F: 020 7793 2829
E: mailbox@prsarchitects.com

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- 5.0 Internal Fan Coil Unit enclosure
- 6.0 Internal Fan Coil Unit Specification Datasheets
- 7.0 External Plant Data sheet and Stand

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TEAM

The Museum has appointed the following design team for the project;

Client:

The British Museum,
Great Russell Street,
London, WC1B 3DG
T: 020 7323 8861
E: rtorrance@britishmuseum.org

Architect and Lead Consultant:

Pringle Richards Sharratt Limited
Studio 4,
33, Stannary St, London
SE11 4AA
T: 020 7793 2828
F: 020 7793 2829
E: simon.hart@prsarchitects.com
E: john.pringle@prsarchitects.com
E: gonca.ozar@prsarchitects.com

Project Managers:

Lendlease
20 Triton Street,
Regents Place,
London, NW1 3BF
T: 020 7323 8189
E: sjandu@britishmuseum.org
E: abretton@britishmuseum.org

Quantity Surveyor:

Gardiner & Theobald LLP
10 South Crescent
London
WC1E 7BD
T: 020 7209 1867
E: e.bowe@gardiner.com
E: j.deans@gardiner.com

Structural Engineers:

Alan Baxter Ltd
75 Cowcross Street
London
EC1M 6EL
T: 020 7250 1555
E: lkershaw@alanbaxter.co.uk

Building Services Engineers:

Frankham Consultancy Group
Third Floor
Baird House
15–17 St Cross Street
London, EC1N 8UW
T: 020 7651 0790
E: rex.hawkes@frankham.com
E: james.clements@frankham.com

Planning Consultants

The Planning Lab:
Exchange at Somerset House,
South Wing,
Strand,
London WC2R 1LA
T: 07557 783787
E: kelly@theplanninglab.com
E: melanie@theplanninglab.com

Heritage Consultants

Montagu Evans LLP:
5 Bolton Street,
London W1J 8BA
T: 0207 439 4002
E: Kate.FalconerHall@Montagu-Evans.co.uk
E: Alexandra.Rowley@montagu-evans.co.uk

Stakeholders

The British Museum,
Great Russell Street,
London, WC1B 3DG

Fire Engineer
David Gould
T: 020 7323 8676
E: dgould@britishmuseum.org

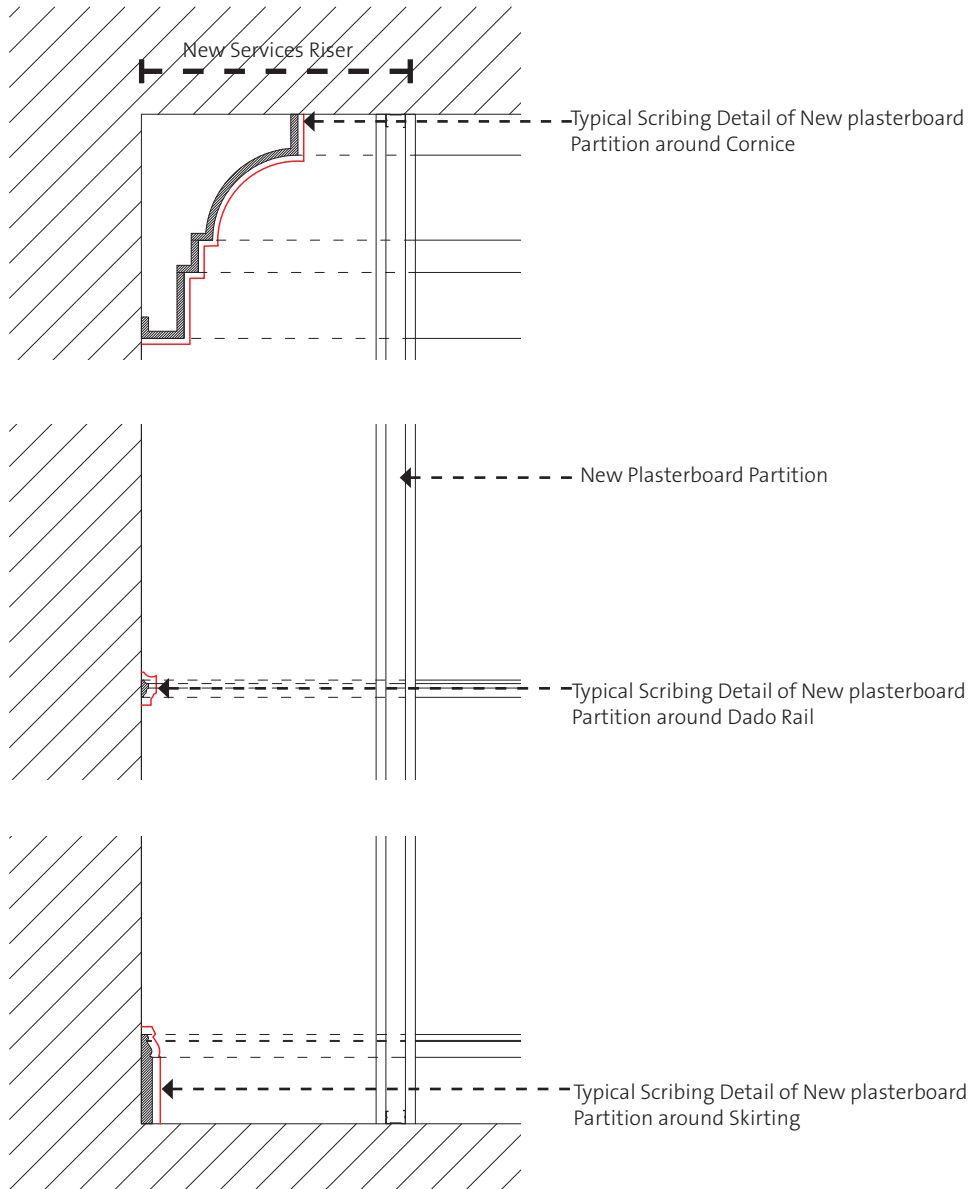
Health & Safety Manager
Paul O Day
T: 020 7323 8733
E: poday@britishmuseum.org

Fire, Health & Safety Advisor
Russell Ham
T: 020 7323 8737
E: rham@britishmuseum.org

Head of Security Operations
Graham Dunkley
T: 020 7323 8213
E: gdunkley@britishmuseum.org

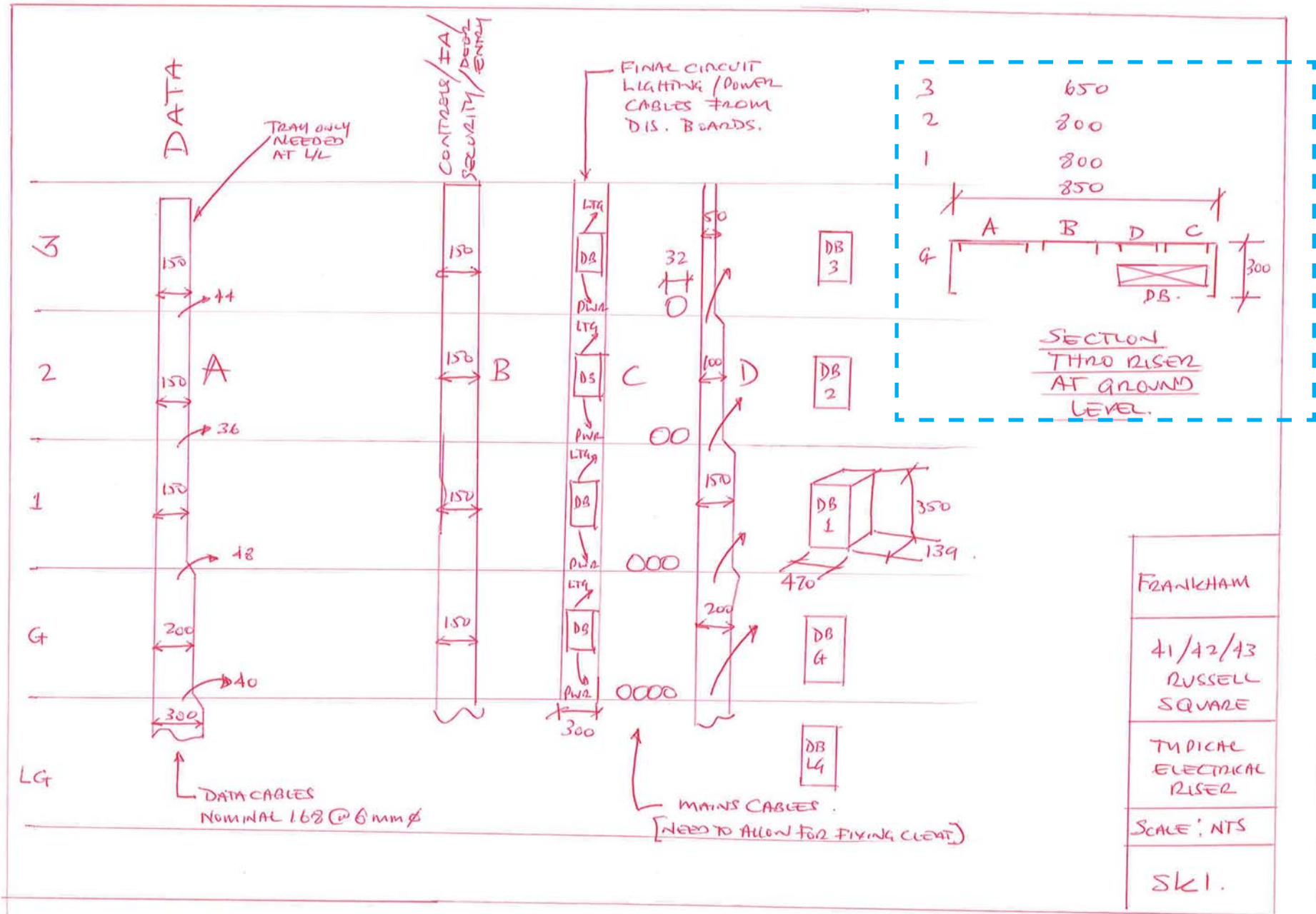
1. HISTORICAL FEATURES SCRIBING TYPICAL DETAILS

CORNICE, DADO RAIL AND SKIRTING



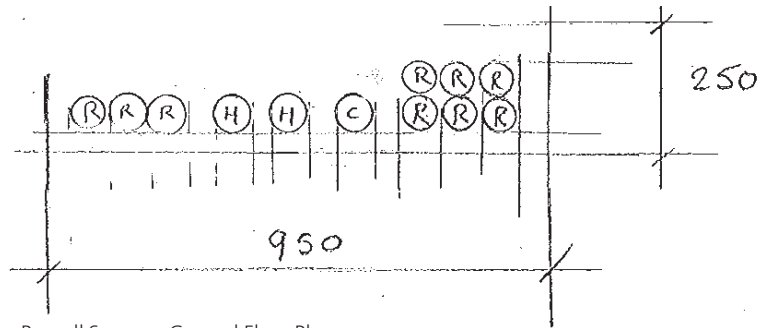
— Nominal 5mm Scribing Detail
SCALE 1:10 @ A4

2. ELECTRICAL RISER DIMENSIONS
41-43 RUSSELL SQUARE

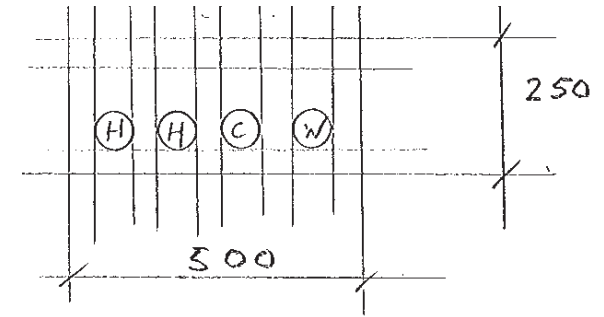


3. 41 RUSSELL SQUARE

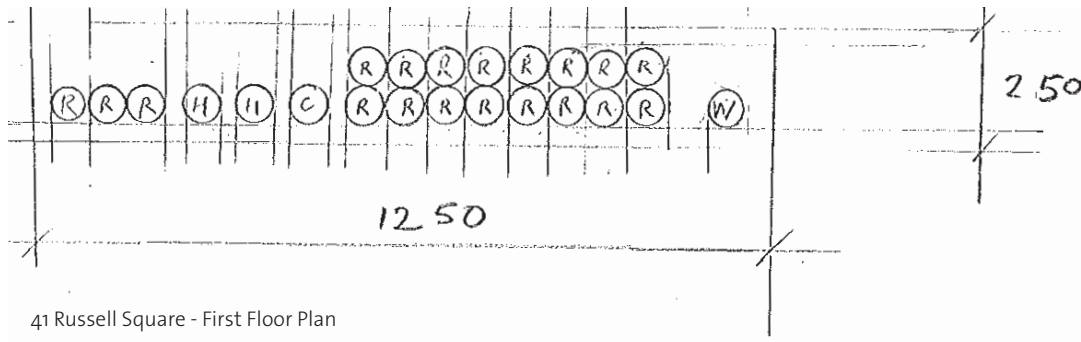
MECHANICAL RISER DIMENSIONS



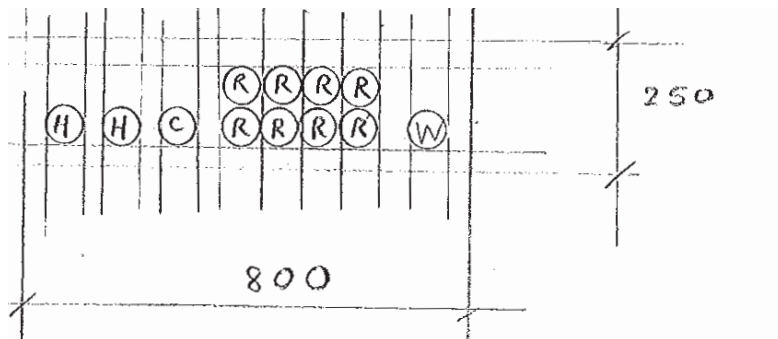
41 Russell Square - Ground Floor Plan



41 Russell Square - Third Floor Plan



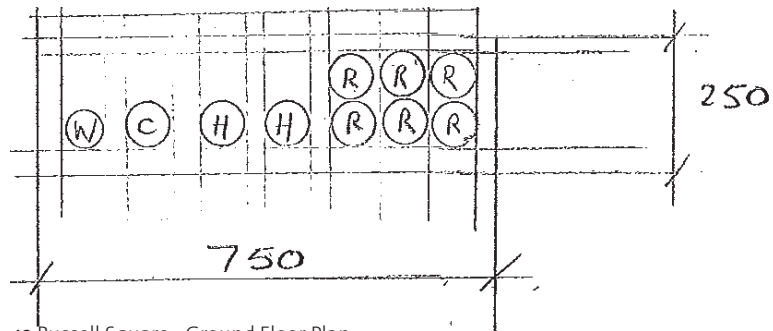
41 Russell Square - First Floor Plan



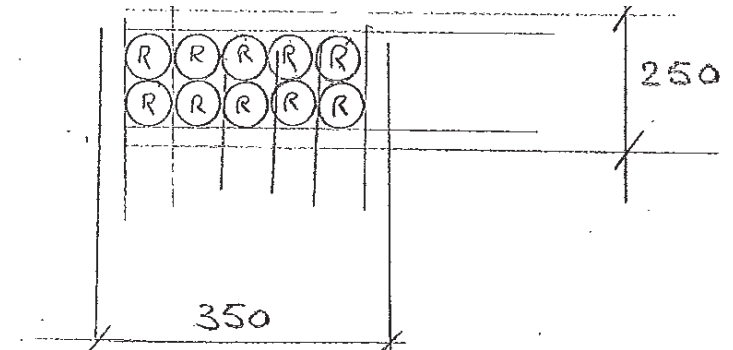
41 Russell Square - Second Floor Plan

3.42 RUSSELL SQUARE

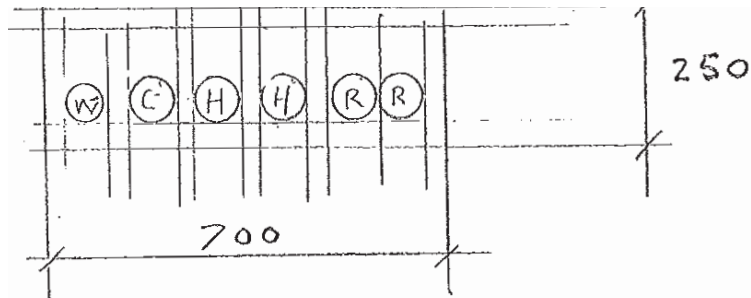
MECHANICAL RISER DIMENSIONS-



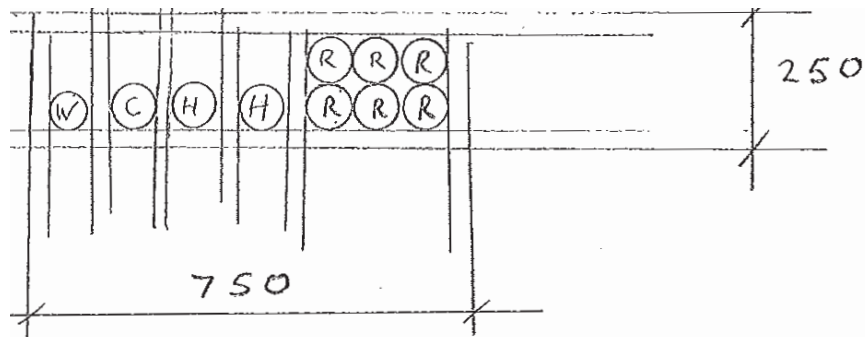
42 Russell Square - Ground Floor Plan



42 Russell Square - Third Floor Plan



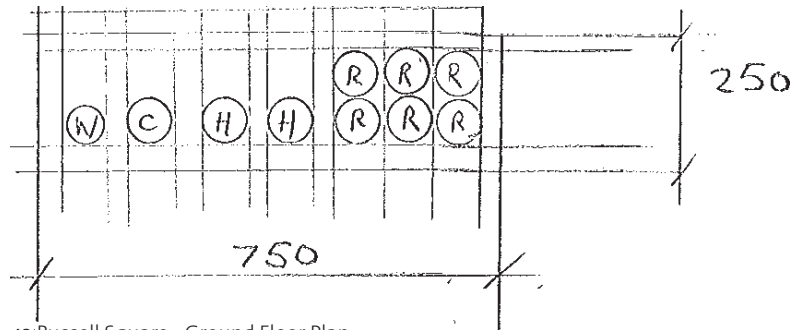
42 Russell Square - First Floor Plan



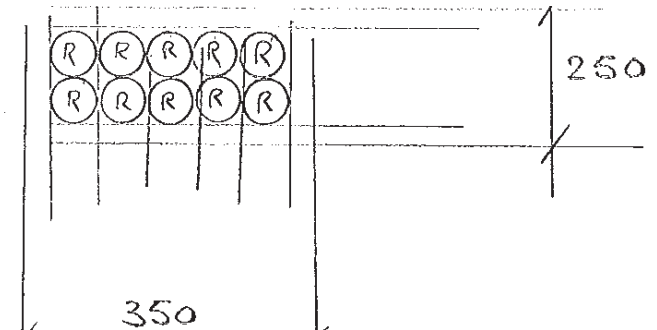
42 Russell Square - Second Floor Plan

3. 43 RUSSELL SQUARE

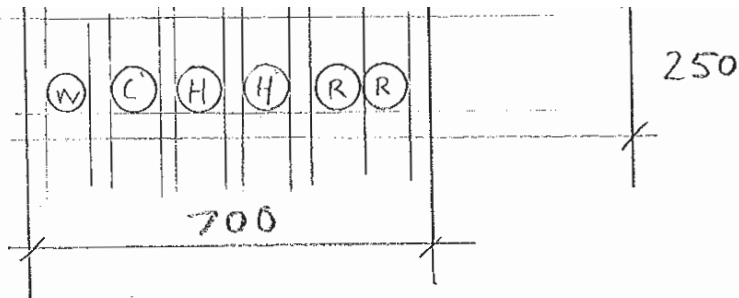
MECHANICAL RISER DIMENSIONS



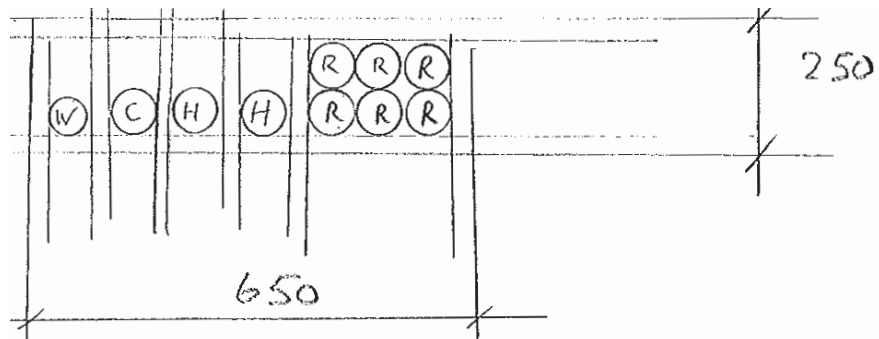
43 Russell Square - Ground Floor Plan



43 Russell Square - Third Floor Plan



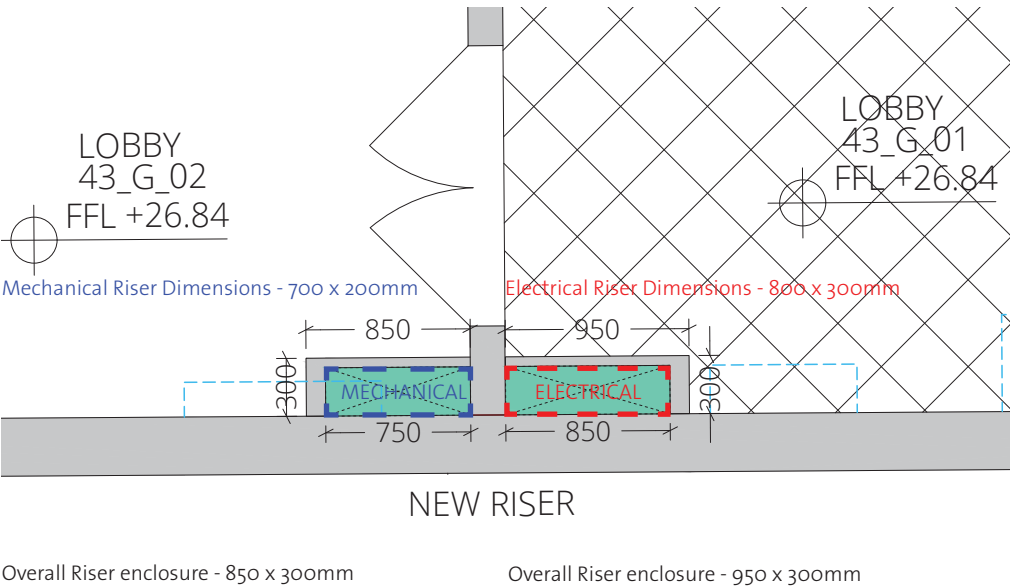
43 Russell Square - First Floor Plan



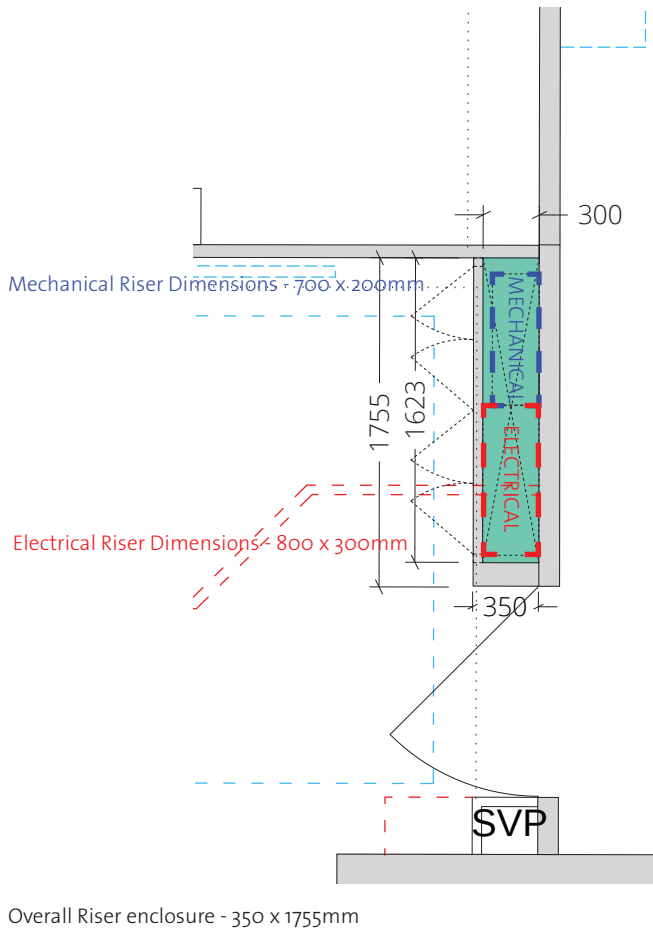
43 Russell Square - Second Floor Plan

4. 42-43 RUSSELL SQUARE PROPOSED RISER DIMENSIONS

Extracts of the Plan showing the proposals of the Riser Dimensions



43 Russell Square - Ground Floor Plan Proposed Riser

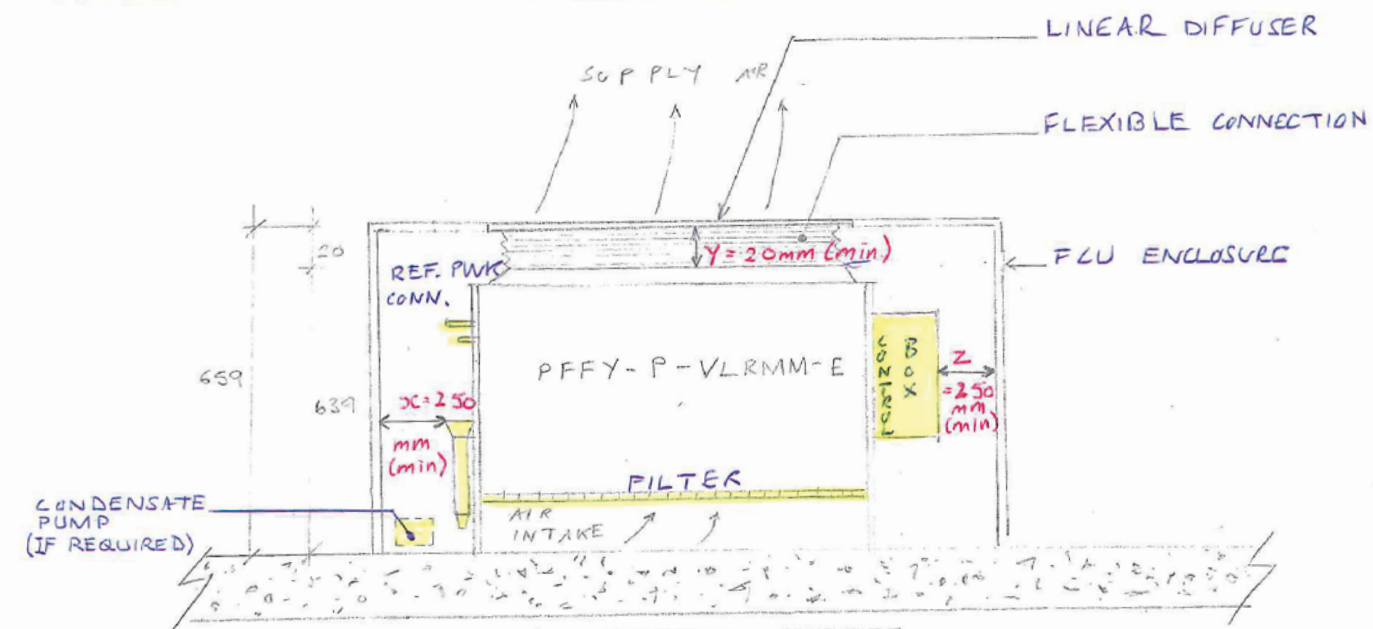


42 Russell Square - First Floor Plan Proposed Riser

5. INTERNAL FAN COIL UNIT ENCLOSURE
ONE UNIT IN EVERY PROPOSED OFFICE SPACE

FCU ENCLOSURE

- ENCLOSURE TO BE DE-MOUNTABLE FOR ACCESS TO CONTROL BOX & REF. PIPE CONNECTIONS.
- FILTER TO BE ACCESSIBLE FOR CLEANING.



MODEL	UNIT LENGTH	ENCLOSURE LENGTH	ENCLOSURE HEIGHT *	ENCLOSURE DEPTH
P20	886	1386	659	300
P25	886	1386	659	300
P32	1006	1506	659	300
P40	1006	1506	659	300
P50	1246	1746	659	300
P63	1246	1746	659	300

COMPONENTS THAT REQUIRE ACCESS



Right: Precedent Images from 42 Portland Place W1B. -Pringle Richards Sharratt Architects. Example of Fan Coil Unit enclosure

6. INTERNAL VRF SYSTEM EQUIPMENT SPECIFICATION
41 AND 42 RUSSELL SQUARE

Air Conditioning

Product Information

Master BC Controllers
with Port Isolation Valves
KS8-CMB-P108/1012/1016V-J-B/V-KA

Making a
World of
Difference



At the heart of both the R2 and WR2 Series, the BC controller makes simultaneous heating and cooling possible. Improved system efficiency is achieved when energy is transferred intelligently around the building.

Key Features

- Allows unique 2-pipe heat recovery application
- Heating and cooling at the same time on larger systems
- Instructs the heat source unit/outdoor unit on the amount of refrigerant (liquid or gas) that is required to achieve the requested cooling or heating requirements
- Slim profile for more flexible installation
- Easy servicing and maintenance access through underside drain pan
- Brazed connections
- Isolation valves factory-fitted on each port



Cooling | Heating | Ventilation | Controls

41 Russell square –

2x BC Controller model KS8-CMB-P108V-JA (system 1 and 2)

Air Conditioning

Product Information

Master BC Controllers
with Port Isolation Valves
KS8-CMB-P108/1012/1016V-J-B/V-KA

Making a
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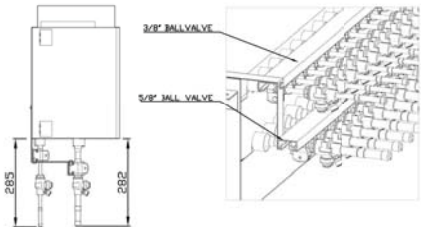


BC CONTROLLERS		KS8-CMB-P108V-JA	KS8-CMB-P1012V-JA	KS8-CMB-P1016V-JA	KS8-CMB-P1016V-KA
NUMBER OF CONNECTIONS		8	12	16	16
WEIGHT (kg)		45 + 7.9	55 + 12	63 + 14.5	65 + 14.5
DIMENSIONS (mm)	Width	911	1135	1135	1135
	Depth	639 + 280	639 + 280	639 + 280	639 + 280
	Height	246	246	246	246
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single	Single
POWER INPUT (kW)		0.161	0.236	0.312	0.312
RUNNING CURRENT (A)		0.68	0.99	1.30	1.30
FUSE RATING (BS88) – R (A)		6	6	6	6
MAINS CABLE NO. CORES		3	3	3	3
BC BOX		CMB-P108V-JA	CMB-P1012V-JA	CMB-P1016V-JA	CMB-P1016V-KA

Note: KS8-CMB-P-V-JA units are for use with PURV-P200-900Y(S)NW-A, PURV-EP200-900Y(S)NW-A & PURV-P200-900Y(S)NW-A units only. KS8-CMB-P1016V-KA unit is for use with PURV-P950-1100Y(S)NW-A & PURV-EP950-1100Y(S)NW-A units only.

PRODUCT DIMENSIONS KS8-CMB-P108/1012/1016V-J/V-KA

Side View



6. INTERNAL VRF SYSTEM EQUIPMENT SPECIFICATION
42 AND 43 RUSSELL SQUARE

Air Conditioning

Product Information
BC Controllers
with Port Isolation Valves
KS8-CMB-P104/106V-J

Making a
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Difference

CITY MULTI



At the heart of both the R2 and WR2 Series, the BC controller makes simultaneous heating and cooling possible. Improved system efficiency is achieved when energy is transferred intelligently around the building.

Key Features

- Allows unique 2-pipe heat recovery application
- Heating and cooling at the same time on smaller systems
- Instructs the heat source unit/outdoor unit on the amount of refrigerant (liquid or gas) that is required to achieve the requested cooling or heating requirements
- Slim profile for more flexible installation
- Easy servicing and maintenance access through underside drain pan
- Brazed connections
- Isolation valves factory-fitted on each port



Cooling | Heating | Ventilation | Controls

42 Russell square –

- 1x BC Controller model KS8-CMB-P108V-JA (system 1)
- 1x BC Controller model KS8-CMB-P104V-J (system 2)

43 Russell square –

- 1x BC Controller model KS8-CMB-P106V-J (system 1)
- 1x BC Controller model KS8-CMB-P104V-J (system 2)

Air Conditioning

Product Information
BC Controllers
with Port Isolation Valves
KS8-CMB-P104/106V-J

Making a
World of
Difference

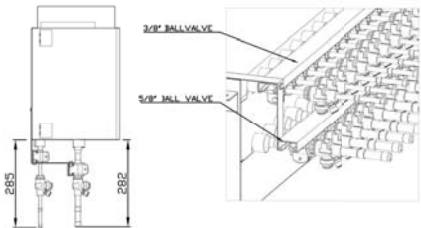


BC CONTROLLERS	KS8-CMB-P104V-J	KS8-CMB-P106V-J
NUMBER OF CONNECTIONS	4	6
WEIGHT (kg)	23 + 4.2	27 + 5.9
DIMENSIONS (mm)		
Width	596	596
Depth	495 + 280	495 + 280
Height	246	246
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single
POWER INPUT (kW)	0.085	0.123
RUNNING CURRENT (A)	0.36	0.52
FUSE RATING (BS88) – HRC (A)	6	6
MAINS CABLE NO. CORES	3	3
BC BOX	CMB-P104V-J	CMB-P106V-J

Note: KS8-CMB-P-V-J units are for use with PURY-P200-350YMW-A, PURY-EP200-350 YMW-A & PQRY-P200-300YLM-A units only.

PRODUCT DIMENSIONS KS8-CMB-P104/106V-J

Side View



PRINCIPLE RICHARDS SHARRATT ARCHITECTS | ABID | FRANKHAM | THE PLANNING LAB | MONTAGU EVANS | GARDINER AND THEOBALD

- Reduced noise levels
- 3 static pressure settings - 20/40/60Pa ideal for ducting in the perimeter zone
- Concealed unit for hidden installation. The unit can be hidden behind a wardrobe in a hotel, then ducted above and below the wardrobe doors - this offers lower noise, less disruption and a low visual impact



INDOOR UNITS		PFFY-P20VLRMM-E	PFFY-P25VLRMM-E	PFFY-P32VLRMM-E	PFFY-P40VLRMM-E	PFFY-P50VLRMM-E	PFFY-P63VLRMM-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0	6.3	8.0
	Cooling (nominal)	2.2	2.8	3.6	4.5	5.6	7.1
	UK Heating	2.5	3.2	4.0	5.0	6.3	8.0
	UK Total Cooling - M (Sensible)	2.00 (1.60)	2.50 (1.90)	3.20 (2.40)	4.10 (3.00)	5.00 (3.80)	6.40 (4.70)
	UK Total Cooling - M2	1.92	2.40	3.05	3.95	4.81	6.11
POWER INPUT (kW)	Heating (nominal)	0.04	0.21	0.27	0.05	0.05	0.07
	Cooling (nominal)	0.04	0.04	0.04	0.05	0.05	0.07
	UK Total Cooling - M1	1.92	2.40	3.05	3.95	4.81	6.11
	UK Total Cooling - Lx	1.77	2.21	2.87	3.70	4.48	5.71
	UK Total Cooling - Lx	1.77	2.21	2.87	3.70	4.48	5.71
AIRFLOW (L/s)	Lo-Mid-Hi	75-92-108	75-92-108	108-125-158	133-158-183	167-200-233	183-217-258
	EXTERNAL STATIC PRESSURE (Pa)	20-40-60	20-40-60	20-40-60	20-40-60	20-40-60	20-40-60
SOUND RESISTANCE LEVEL (dB(A)) (20Pa, Lo-Mid-Hi)	31-40-40	31-40-40	31-40-40	30-40-40	30-40-40	30-40-40	30-40-40
	WEIGHT (kg)	18.5	18.5	20	21	25	27
DIMENSIONS (mm)	Width	886	886	1006	1006	1246	1246
	Depth	220	220	220	220	220	220
	Height	639	639	639	639	639	639
ELECTRICAL SUPPLY	Single	220-240V, 50Hz	220-240V, 50Hz	220-240V, 50Hz	220-240V, 50Hz	220-240V, 50Hz	220-240V, 50Hz
	PHASE	Single	Single	Single	Single	Single	Single
RUNNING CURRENT (A) Heating / Cooling	0.34 / 0.34	0.34 / 0.34	0.38 / 0.38	0.43 / 0.43	0.48 / 0.48	0.59 / 0.59	0.75 / 0.75
	FUSE RATING (BS88 - HRC) (A)	6	6	6	6	6	6
MAXIMUM CABLE (mm²)	0.34	0.34	0.34	0.34	0.34	0.34	0.34
	0.34	0.34	0.34	0.34	0.34	0.34	0.34

Note: *1 Additional sound data is available for this model. Separated inlet and breakout sound power level and discharge sound power level data is available on request

Model	A	B	C	D
PFFY-P20VLRMM-E	886	640	572	610
PFFY-P25VLRMM-E	886	640	572	610
PFFY-P32VLRMM-E	1006	760	692	730
PFFY-P40VLRMM-E	1006	760	692	730
PFFY-P50VLRMM-E	1246	1000	932	970
PFFY-P63VLRMM-E	1246	1000	932	970



Effective as of September 2017

DATA SHEET - WILL BE CONCEALED WITH NEW TIMBER SCREEN

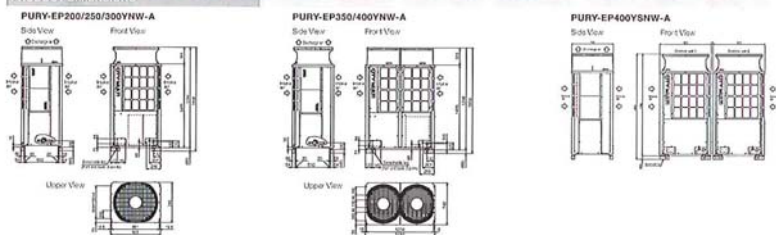
Product Information

R2 Series High Efficiency (22.4-45kW)
Simultaneous Heating and Cooling
with Heat Recovery Outdoor Unit

Making a World of Difference

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PRODUCT DIMENSIONS



Telephone: 01707 282880
email: air.conditioning@meuk.mee.com
web: airconditioning.mitsubishielectric.co.uk

UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division
Travelers Lane, Hatfield, Hertfordshire, AL10 8DL, England General Enquiries Telephone: 01707 282880 Fax: 01707 278881
IRELAND Mitsubishi Electric Europe Westgate Business Park, Ballymount, Dublin 24, Ireland
Telephone: Dublin (01) 419 8800 Fax: Dublin (01) 419 8890 International code: 0035331

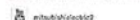
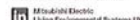
[illegible]

Note: The following is for guidance only. Please refer to the relevant datasheet for detailed specification. It is the responsibility of a qualified electrical/electrical engineer to select the correct cable size and type (depending on our site regulations) and the specific conditions. Mitsubishi Electric air conditioning equipment and heat pumps always contain a licensed greenhouse gas. R410A (GWP 2088), R32 (GWP 675), R454C (GWP 173) or Pro J45 (GWP 1400). These GWP values are based on the latest IPCC report.



Green
Gateway

Mitsubishi Electric UK's commitment
to the environment



Effective as of November 2017



The Stand Range is a versatile ground mount frame system, and with the optional Extender Kits, it is compatible with all leading VRF/VRV units.

FEATURES

- 200mm (8") Feet
- Available in 3 lengths
- Optional Extender Kits
- Support individual or multiple VRF/VRV units
- Adjustable slotted channel cross bar, to suit industry standard fixings
- Clamp kits
- Quick to assemble



VRF/VRV STAND RANGE

Description	Part No.	Length mm Inches	Width mm Inches	Height mm Inches	Weight Kg Lbs	Max. Load Kg Lbs	KIT INCLUDES		
990 (36") Frame	B5556	990 32 3/4	620 - 780 24 3/4 - 30 3/4	305 12	35 77	600 1323	Description	Frame	Ext.
1290 (51") Frame	B5557	1290 44 1/2	620 - 780 24 3/4 - 30 3/4	305 12	38 84	500 1102	200mm (8") Foot & Insert	+ 4	+ 2
1450 (57") Frame	B5558	1450 50 X	620 - 780 24 3/4 - 30 3/4	305 12	41 90	400 882	End bar	+ 2	+ 1
990 (36") Extender	B5559	990 32 3/4	620 - 780 24 3/4 - 30 3/4	305 12	25 55	600 1323	Cross bar	+ 2	+ 2
1290 (51") Extender	B5560	1290 44 1/2	620 - 780 24 3/4 - 30 3/4	305 12	28 62	500 1102	Fixing kit	+ 4	+ 4
1450 (57") Extender	B5561	1450 50 X	620 - 780 24 3/4 - 30 3/4	305 12	31 68	400 882			