Grenfell Tower Refurbishment

Architect: **Studio E Architects**
Issue Status: Stage E Tender

PLEASE NOTE: ALL EQUIPMENT IS TO BE EQUAL OR APPROVED. NO ITEMS ARE UNIQUELY SPECIFIED.

REF	DESCRIPTION/TYPE	LOCATION	MANUFACTURER & REF (NOTE 1)	MAIN DUTY (NOTE 2)	NOTES / ACCESSORIES
LANDLORD'S MAIN MECHANICAL EQUIPMENT					
B1, 2 & 3	Gas-fired condensing heating boiler, central (landlord's) heating installation. Space & hot water heating boiler. Cast sectional aluminium heating exchanger. Fully modulating, with premix burner and weather compensation.	Basement plantroom	Viessmann Vitocrossal 300 CT3B	Maximum output 225kW	See the Max Fordham T[90]12_000 plant room layout. Complete with weather compensation Low NOx (<39ppm)
HPU	Heating system pressurisation unit	Basement plantroom	Aquatech Pressmain Aquapack ET 90 type	Cold Fill pressure 6.8 Bar	Complete with integral 2x 500VR expansion vessel.
P1	Main heating pump	Basement plantroom	Grundfos MAGNA/UPE	10 l/s @ Pressure Head TBC	Twin pumps, run and standby. To include automatic switchover control arrangements. Variable speed pumps with variable speed control. With differential pressure control (proportional and constant pressure control) located at most remote HIU. Complete with integrated frequency converter, self-venting pump housing and stainless steel pump housing. Twin-head version.
P2	Boiler shunt pump	Main heating plantroom	Grundfos MAGNA/UPS	TBC	
BV1	Heating Buffer Vessel	Basement plantroom	Ormandy Rycroft	3500 litre	Tap-offs as required by schematic Insulated Jacket Vertical cylinder – floor mounted
CWBS	Cold water pressure booster set	Rooftop plantroom	Aquatech Pressmain Series AMV2 15-5	2.5/s @ 200KPa	Pressure booster set required to ensure adequate water pressure across the HIUs on upper three residential floors. Peak diversified building water flow rate (based on non low-flow fittings): 2.81/s.
HIU	Flat heat interface unit	Heat interface unit cupboards	SAV Flatstation 7-DS-59-12	59 kW	For general layout and arrangement of heat interface units, see Max Fordham drawing T[--]01_251 Heat interface unit including cabinet and heat meter.
LANDLORD'S MECHANICAL VENTILATION EQUIPMENT					
	Smoke extract fans				
	Smoke supply fans				

MAX FORDHAM

Schedule of Mechanical Equipment
J4614/Z[--]500 T1

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REF	DESCRIPTION/TYPE	LOCATION	MANUFACTURER & REF (NOTE 1)	MAIN DUTY (NOTE 2)	NOTES / ACCESSORIES
	AOVs				Static invertor, controls etc
	Basement supply fans				Interlocked to boilers
	Basement extract fans				Interlocked to boilers
RADIATOR SCHEDULE					
R1	Double panel, 1000 x 600 mm	Residential floors 1-20	Stelrad Elite P+	726 W	
R2	Single panel, 500 x 300 mm	Ground floor	Stelrad Elite K1	133W	
R3	Double panel, 700 x 600 mm	Residential mezzanine floor	Stelrad Elite P+	508 W	
R4	Single panel, 1500 x 300 mm	Residential mezzanine floor	Stelrad Elite K1	400 W	
R5	Double panel, 800 x 600 mm	Residential mezzanine floor	Stelrad Elite P+	580 W	
R6	Single panel, 1400 x 450 mm	Residential Walkway +1 floor	Stelrad Elite K1	554 W	
R7	Single panel, 1200 x 450 mm	Residential Walkway +1 floor	Stelrad Elite K1	475 W	
R8	Double panel, 1200 x 650 mm	Ground floor	Myson LST Super Plus	594W	
R9	Double panel, 1800 x 600 mm	Walkway	Stelrad Elite P+	1306W	
R10	Single panel, 900 x 450 mm	Ground floor	Stelrad Elite K1	356W	
FLAT MAIN MECHANICAL EQUIPMENT					
FEF	Flat mechanical extract unit.	New flats, Nursery & Boxing Club.	Nuaire EP-OPUSDC Extract Fan	TBC	Fitted in ceiling void or at high level within kitchen cupboard. Connected to flat plastic ductwork run in the ceiling void or bulkhead as indicated on the Max Fordham T[90]12* series typical mechanical layouts. Provide backdraught damper.

Notes

1. This schedule reflects the design generally in accordance with Stage E for Design & Build, and as such represents design development at this stage and does not contain all the information required to form a full and fully working installation without further design development.
2. All sizes and duties stated are approximate and are for tender purposes only and should be confirmed by the contractor by the process of further design development.
3. Contractor to ensure that the catalogue number is consistent with the description prior to order.
4. All variable speed fans to be inverter controlled. Manufacturer to provide individual inverters for each and shall be from same manufacturer.
5. All equipment to be selected to ensure that the total harmonic distortion is less than 15%.
6. To be read in conjunction with MFLLP specifications and all relevant drawings.

Rev	Date	Status	Description	Engineer	Project Leader
T1	01.11.13	Stage E Tender Issue	Design & Build Tender	MJS	DC

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