Monday, February 10, 2020

DN/SW/47770 B

Mr C Aams
Poole Housing Partnership Ltd
Beech House
28-30 Wimborne Road

BH15 2BU

Dear Mr C Aams

RE: WILLOW PARK - POOLE - SCHEME NO. 47770 B

Thank you for your correspondence requesting product selections for the above.

Our calculations and designs are based on the specific design criteria and information provided to us by our customers for their particular requirements and I would ask you to read the attached design criteria notes, which list the details on which our design has been based.

Whilst we endeavour to ensure that our recommendations and designs accurately reflect customers' requirements, we are unable to accept responsibility for any loss incurred as a result of them failing to do so.

For further information on this scheme please contact Andy Green on 07977 982250.

WILLOW PARK - POOLE

Scheme No. 47770 B

Design Criteria

External design temperature -3°C in still air

A warm-up period is recommended before a room is to be used

The heater selection is based upon the customer requirements stated within the specification notes provided. Please refer to the Heating Book selection guide for similar products and suitability

The Following 'U' values have been used in the calculation of heat losses. Before proceeding, please check with your client that these 'U' values are correct.

	U-value W/m2 K
External Wall	1.50
Windows	3.00
Doors	3.00
Internal Wall	1.70
Roof	0.45
Floor	0.80

Failing to meet the above levels may result in the products specified not reaching the design temperature.

The heaters on our original scheme have been sized to provide the temperatures and air changes as quoted within the NHBC & CIBSE Standards. Subsequent Revisions removing heaters may result in this not being achievable.

In applications where space is limited it is recommended that heater dimensions and installation requirements be thoroughly checked to ensure satisfactory installation and use.

A summary of heaters is included.

Attention is drawn to the paragraph relating to surface temperatures on the back of the main brochure or within the presentation document.

Dimplex - a division of the GDC Group,
Millbrook House, Grange Drive, Hedge End, Southampton, Hants, SO30 2DF, United Kingdom
E-Mail: heat.design@dimplex.co.uk

IMPORTANT: Calculations are based on the design criteria advised. Alterations to these criteria could necessitate changes to the heaters selected. Deviation from the models listed could affect the operational characteristics of the system specified with possible reduction in room temperature attainable.

Glen Dimplex HEATING & VENTILATION

WILLOW PARK - POOLE

Scheme No. 47770 B

Floor	Type of Room	Heat Loss kW	Qty	Model	Loading in kW Off Peak	Loading in kW Normal
FLATS 64 - 72						
	Living		1	QM150RF	3.30	1.10
	Hall		1	QM050RF	1.02	0.34
	Bedroom		1	QM070RF	1.56	0.52
	Bathroom		1	BPH100M	0.00	1.00
	Kitchen		1	FX20VE	0.00	2.00
FLATS 73						
	Living	1.92	2	QM100RF	0.00	0.00
	Hall	0.50	1	QM150RF	3.30	1.10
	Kitchen	0.58	1	QRAD100	0.00	1.00
	WC	0.09	1	FX20VE	0.00	2.00
	Landing	0.36	1	QM050RF	1.02	0.34
	Bedroom 1	0.89	1	QM100RF	2.20	0.74
	Bedroom 2	0.39	1	QRAD100	0.00	1.00
	Bedroom 3	0.42	1	QM050RF	1.02	0.34
	Bathroom	0.25	1	BPH100M	0.00	1.00
FLATS 74 - 101						
	Living		1	QM150RF	3.30	1.10
	Hall		1	QM050RF	1.02	0.34
	Bedroom		1	QM070RF	1.56	0.52
	Bathroom		1	BPH100M	0.00	1.00
	Kitchen		1	FX20VE	0.00	2.00
FLATS 102						
	Living		1	QM100RF	2.20	0.74
	Hall		1	QM050RF	1.02	0.34
	Bathroom		1	BPH100M	0.00	1.00
	Kitchen		1	FX20VE	0.00	2.00

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Floor	Type of Room	Heat Loss kW	Qty	Model	Loading in kW Off Peak	Loading in kW Normal
FLATS 103 - 116						
	Living		1	QM150RF	3.30	1.10
	Hall		1	QM050RF	1.02	0.34
	Bedroom		1	QM070RF	1.56	0.52
	Bathroom		1	BPH100M	0.00	1.00
	Kitchen		1	FX20VE	0.00	2.00
COMMON AREAS						
	Managers Office Reception		2	QM150RF	6.60	2.20
	Managers Office		1	QM070RF	1.56	0.52
	Canteen Area		2	QM150RF	6.60	2.20
	Communal Lounge		5	QM150RF	16.50	5.50
	Corridor to Lounge		2	QM150RF	6.60	2.20
	Corridor Behind Lounge		2	QM150RF	6.60	2.20
	o/s Guest Room		1	QM070RF	1.56	0.52
	Corridor 31 - 33		1	QM100RF	2.20	0.74
	&		1	QM070RF	1.56	0.52
	Corridor 30 - 27		2	QM070RF	3.12	1.04
	Corridor 23 - 26		2	QM070RF	3.12	1.04
	Corridor 22 - 25		1	QM070RF	1.56	0.52
	1st Stairwell		4	QM070RF	6.24	2.08
	Corridor 34 - 37		1	QM070RF	1.56	0.52
	Corridor 35 - 38		2	QM070RF	3.12	1.04
	Corridor 39 - 40		1	QM070RF	1.56	0.52
	Corridor 42 - 44		1	QM070RF	1.56	0.52
	Corridor 43 - 45		1	QM070RF	1.56	0.52
	2nd Stairwell		4	QM070RF	6.24	2.08
	Corridor 55 - 57		1	QM070RF	1.56	0.52
	Corridor 56 - 54		1	QM100RF	2.20	0.74
	Corridor 52 - 51		1	QM070RF	1.56	0.52
	Corridor 48 - 50		2	QM070RF	3.12	1.04
	Corridor 46 - 49		1	QM070RF	1.56	0.52
	Corridor 58		1	QM070RF	1.56	0.52
	o/s 64		1	QM150RF	3.30	1.10
	Corridor 65 - 68		2	QM070RF	3.12	1.04

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HEATING & VENTILATION

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Floor	Type of Room	Heat Loss kW	Qty	Model	Loading in kW Off Peak	Loading in kW Normal
COMMON AREAS						
	Laundry		1	QRAD100	0.00	1.00
	Corridor 69 - 78		4	QM070RF	6.24	2.08
	Corridor 84 - 88		1	QM070RF	1.56	0.52
	Corridor 89 - 90		1	QM070RF	1.56	0.52
	Corridor 87 - 92		1	QM070RF	1.56	0.52
	Corridor 108 - 101		1	QM070RF	1.56	0.52
	Corridor 106 - 100		1	QM070RF	1.56	0.52
	Corridor 99 - 98		1	QM070RF	1.56	0.52
	Corridor 59 - 60		2	QM070RF	3.12	1.04
	Corridor 61 - 62		2	QM070RF	3.12	1.04
	Lift Corridor		2	QM100RF	4.40	1.48
	Corridor 63		1	QM070RF	1.56	0.52
	Corridor 116 - 115		2	QM070RF	3.12	1.04
	Corridor 114 - 113		1	QM070RF	1.56	0.52
	Corridor 112 - 111		1	QM070RF	1.56	0.52
	Stairs adj 73		4	QM100RF	8.80	2.96
	Lift 3rd Floor		2	QM100RF	4.40	1.48
	Corridor 110		2	QM070RF	3.12	1.04
	Stairwell		4	QM070RF	6.24	2.08
	Corridor 95 - 94		1	QM100RF	2.20	0.74
	&		1	QM070RF	1.56	0.52
	Lift 2nd Floor		1	QM100RF	2.20	0.74
	Corridor 80 - 81		1	QM070RF	1.56	0.52
	Lift 1st Floor		1	QM100RF	2.20	0.74
	Corridor 65 - 66		2	QM070RF	3.12	1.04
	Lift Ground Floor		2	QM100RF	4.40	1.48
	Meeting Room		2	QM100RF	4.40	1.48
	w/c Gents		1	QRAD050	0.00	0.50
	w/c Ladies		1	QRAD050	0.00	0.50
	Corridor to Kitchen		1	QM070RF	1.56	0.52

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Guide to Heater Positions

High Heat Retention & Storage Heaters

- The best position is generally against an internal wall close to an external wall
- Sitting a heater directly below a window should be avoided whenever possible owing to risk of overhang from curtains.
- When two heaters are required in a room they should be positioned at opposite ends of the room and if possible, on different walls.

Direct Acting Heaters & Integrated Storage Radiators

- Heaters should be placed at the point of greatest heat loss, close to a window or an adjoining wall.
- Sitting a heater directly below a window should be avoided whenever possible owing to risk of overhang from curtains.

Note: Individual product specifications contain detail regarding heater installations and minimum clearance requirements. These should be referred to at all times.

Data sheets for all products specified can be obtained from the website

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Product Summary

Heater Type	Quantity	Heater		Total	
		Off Peak	On Peak	Off Peak	On Peak
		kW	kW	kW	kW
Energy System					
QM050RF	54	1.02	0.34	55.08	18.36
QM070RF	111	1.56	0.52	173.16	57.72
QM100RF	21	2.20	0.74	46.20	15.54
QM150RF	66	3.30	1.10	217.80	72.60
Kitchen/Bathroom Heating					
BPH100M	53		1.00		53.00
FX20VE	53		2.00		106.00
Quantum Electric Radiator					
QRAD050	2		0.50		1.00
QRAD100	3		1.00		3.00
Total Products	**363**			**492.24**	**327.22**

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