



## Typical Boiler Outputs

In-Screed		Approx Output (W/m <sup>2</sup> )			
		150mm Pipe Centres			
Finish		Tile	Vinyl	Wood	Carpet
Flow rate (l/min)	1	87	75	64	60
	1.5	99	87	75	66
	2	107	96	79	68
	2.5	111	100	83	71
	3	116	102	85	73

In-Screed		Approx Output (W/m <sup>2</sup> )			
		200mm Pipe Centres			
Finish		Tile	Vinyl	Wood	Carpet
Flow rate (l/min)	1	77	67	56	54
	1.5	81	76	65	57
	2	90	84	69	61
	2.5	96	87	72	64
	3	100	89	75	66

16mm Overlay		Approx Output (W/m <sup>2</sup> )			
		120mm Pipe Centres			
Finish		Tile	Vinyl	Wood	Carpet
Flow rate (l/min)	1	86	82	68	57
	1.5	97	88	74	62
	2	103	91	77	65
	2.5	105	95	79	66
	3	107	97	80	67

20mm Overlay		Approx Output (W/m <sup>2</sup> )			
		150mm Pipe Centres			
Finish		Tile	Vinyl	Wood	Carpet
Flow rate (l/min)	1	72	63	56	50
	1.5	75	68	60	54
	2	80	72	64	58
	2.5	84	76	66	60
	3	85	77	68	61

Alu Plates		Approx Output (W/m <sup>2</sup> )			
		150mm Pipe Centres			
Finish		Tile	Vinyl	Wood	Carpet
Flow rate (l/min)	1	58	51	44	43
	1.5	66	59	50	46
	2	69	61	52	47
	2.5	70	62	55	48
	3	71	63	56	49

Alu Plates		Approx Output (W/m <sup>2</sup> )			
		200mm Pipe Centres			
Finish		Tile	Vinyl	Wood	Carpet
Flow rate (l/min)	1	53	48	41	37
	1.5	56	51	45	42
	2	61	55	48	43
	2.5	62	57	50	45
	3	65	58	51	46

Finish	Resistance
Tile	0.02m <sup>2</sup> K/W
Vinyl	0.05m <sup>2</sup> K/W
Wood	0.1m <sup>2</sup> K/W
Carpet (1.5 TOG)	0.15m <sup>2</sup> K/W

### Finishes based on the below resistances:

Outputs based on 50c flow with 100m pipe length (75m with 16mm Overlay) and 21c room temperature.

Overlay outputs based on flooring being installed directly over panel as per guidelines within installation guide.

Aluminium plate outputs based on 18mm Ply/chipboard intermediate layer.

Screed outputs based on pipework being installed into 65mm sand/cement screed and onto insulation that has a U-Value of at least 0.2w/m<sup>2</sup>k