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Vertical Extract ducting

1 x cowl	2.0Kg
12 x 1m sections	50.4Kg
16 x straps	3.2KG
1 x equal t	4.0KG
1 x s/s cap	1.4KG

Total weight 61.0 KG

Supported by 6 wall brackets rated at 40kg each

2 x gallows brackets rated at 60Kg each

The fan unit is 68Kg (2/3 the average mans weight) over an area of 0.7 x 0.8m (0.56 m²)
I E a load of 121KG/M²

Kitchen Extract Hood:

2.5 m x 1 m = 2.5M² x usual recommended minimum face velocity 0.35m/s = 0.875M³/s

Equipment installed

Open top range cooker (Gas) 600x600=0.36m² x factor 0.35m/s per M² 0.126M³/s

Mild Steel Griddle (electric) 600x600=0.36 m² x factor 0.3 m/s per M² 0.108 M³/s

Twin Basket Deep Fat Fryer 600x600=0.36 m² x factor 0.55 m/s per M² 0.198 M³/s

Convection oven (electric) 600x400=0.24 m² x factor 0.3 m/s per M² 0.072 M³/s

Total requirement Minimum 0.504 M³/s

Actual Measured volume

Ducting 370mm Dia =0.10752 M²

Recorded readings

14.0 M/s 13.5M/s

16.0 M/s 13.5M/s Total 69.0

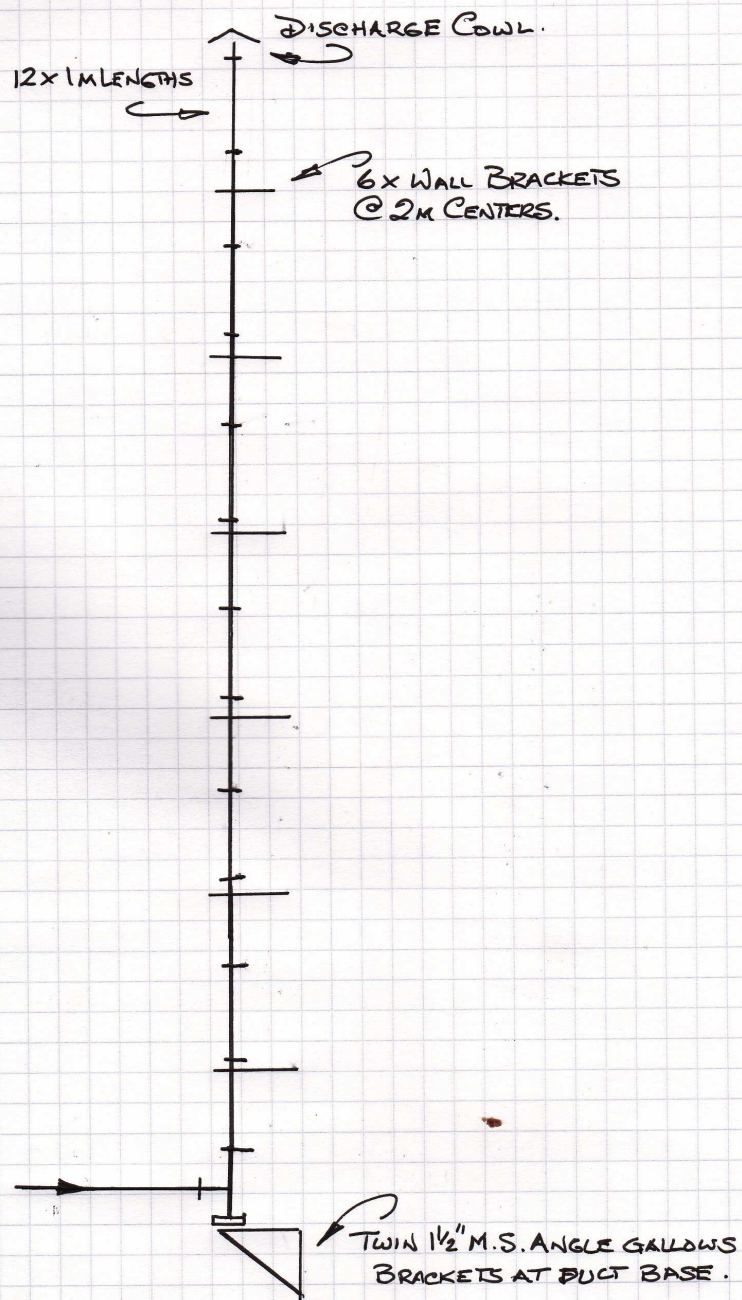
Average 13.8M/s

Actual Volume 1.483M³/s

From the above it can be seen that the installed equipment and fan exceeds both the total minimum extraction requirement and the recommended minimum face velocity for the hood. No method of speed reduction is currently fitted.

Should you need any further details or clarification please contact me.

M A Sibbald



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NOMINAL 400 ϕ DIAMETER SINGLE WALL STAINLESS STEEL 0.7MM THICK.

1M LENGTH	= 4.2 Kg	COWL	2.0 Kg
CLAMP	= 0.6 Kg	CAP	1.4 Kg
EQUAL T	= 4.0 Kg		

MAXIMUM SPACING OF WALL BRACKETS 3M.