

### Polypipe Ventilation Specification





Polypipe Ventilation Sandall Stones Road Kirk Sandall Industrial Park Kirk Sandall, DN3 1QR UK tel: 08443 715523 fax: 08443 715524 Intl tel: +44 (0)1302 348878 fax: +44 (0)1302 348879 Email: vent.info@polypipe.com Web: www.polypipe.com/ventilation



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#### Standard

- i) A fixed louvre grille with a free area and a minimum of 90% of the free area of the duct being used shall be provided for the exhaust of stale (extracted) air from a intermittent centrifugal extract fan (fitted with backdraught shutters) in accordance with the requirements of the Domestic Ventilation Compliance Guide 2010 edition
- or ii) A fixed louvre grille with a free area and a minimum of 90% of the free area of the duct being used shall be provided for the exhaust of stale (extracted) air from a centralised mechanical extract ventilation system (cMEV) in accordance with the requirements of the Domestic Ventilation Compliance Guide 2010 edition
- or iii) Fixed louvre grilles with a free area and a minimum of 90% of the free area of the duct being used shall be provided for the exhaust of stale (extracted) air and the supply of fresh (supply) air to and from a centralised mechanical ventilation system with heat recovery (MVHR) in accordance with the requirements of the Domestic Ventilation Compliance Guide 2010 edition
- or iv) A gravity flap outlet with a free area and a minimum of 90% of the free area of the duct being used shall be provided for the exhaust of stale (extracted) air from an intermittent axial extract fan (without backdraught shutters) in accordance with the requirements of the Domestic Ventilation Compliance Guide 2010 edition
- or v) A cowled outlet with damper with a free area and a minimum of 90% of the free area of the duct being used shall be provided for the exhaust of stale (extracted) air from a range hood or other intermittent extract fan without backdraught shutters in accordance with the requirements of the Domestic Ventilation Compliance Guide 2010 edition

#### Domestic Ventilation Compliance Guide 2010 edition specific references are:

Table 1: System 1 installation guidelines; 2.0 Ventilation air inlets and discharge terminals/grilles; discharge terminals/grilles – roof and wall mounted. Point B.

Table 5: System 3 installation guidelines; 5.0 External discharge terminal; discharge terminals/grilles – roof and wall mounted. Point B.

Table 7: System 4 installation guidelines; 5.0 External supply and discharge terminal; supply and discharge terminals/grilles – roof and wall mounted. Point B.

### **Typical Specifications**

i) A Polypipe Ventilation, Domus branded fixed louvre grille with a free area and a minimum of 90% of the free area of the duct being used shall be provided for the exhaust of stale (extracted) air from an intermittent centrifugal extract fan (fitted with backdraught shutters) in accordance with the requirements of the Domestic Ventilation Compliance Guide 2010 edition.

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For further information please contact Polypipe Ventilation's Technical Team on 08443 715523 or email <u>vent.tech@polypipe.com</u>

or ii) A Polypipe Ventilation, Domus brand fixed louvre grille with a free area and a minimum of 90% of the free area of the duct being used shall be provided for the exhaust of stale (extracted) air from a centralised mechanical extract ventilation system (cMEV) in accordance with the requirements of the Domestic Ventilation Compliance Guide 2010 edition

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or iii) Polypipe Ventilation, Domus brand fixed louvre grilles with a free area and a minimum of 90% of the free area of the duct being used shall be provided for the exhaust of stale (extracted) air and the supply of fresh air to and from a centralised mechanical ventilation system with heat recovery (MVHR) in accordance with the requirements of the Domestic Ventilation Compliance Guide 2010 edition.

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or iv) A Polypipe Ventilation, Domus brand gravity flap outlet with a free area and a minimum of 90% of the free area of the duct being used shall be provided for the exhaust of stale (extracted) air from an intermittent axial extract fan (without backdraught shutters) in accordance with the requirements of the Domestic Ventilation Compliance Guide 2010 edition.

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or v) A Polypipe Ventilation, Domus brand cowled outlet and damper with a free area and a minimum of 90% of the free area of the duct being used shall be provided for the exhaust of stale (extracted) air from a range hood or other intermittent extract fan without backdraught shutters in accordance with the requirements of the Domestic Ventilation Compliance Guide 2010 edition.

For further information please contact Polypipe Ventilation's Technical Team on 08443 715523 or email <u>vent.tech@polypipe.com</u>





### Manufacturer

**Polypipe Ventilation** 

### **Product Range**

Domus grilles and outlets

### **Materials**

UV stabilised high impact polystyrene (HIPS)

Gravity flaps: Polypropylene

Colours: White (RAL9016 traffic white) Brown (RAL8011 nut brown) Terracotta (RAL8004 copper brown) Cotswold (RAL1014 ivory) Black (not RAL specific)

### Sizes

Male spigots to connect directly to Domus EasiPipe circular ducts: 100mm, 125mm and 150mm inside diameter

Male spigots to connect directly to System 100 rectangular ducts: 110mm x 54mm

### Accessories

Flyscreen variants for passive ventilation installations

Retail packed variants



### Damis

### Appendix A

### **Range Details**

4900W 100mm gravity flap outlet – white †   4901B 110mm x 54mm gravity flap outlet – brown †   4901C 110mm x 54mm gravity flap outlet – cotswold   4901T 110mm x 54mm gravity flap outlet – white †   4902B 100mm cowled outlet with damper – brown †   4902B 100mm cowled outlet with damper – cotswold   4902C 100mm cowled outlet with damper – cotswold   4902W 100mm cowled outlet with damper – cotswold   4902W 100mm x 54mm cowled outlet with damper – brown †   4903B 110mm x 54mm cowled outlet with damper – brown   4903B 100mm fixed louvre grille – brown   *4904C 100mm fixed louvre grille – cotswold   *4904T 100mm fixed louvre grille – cotswold   *4904W 100mm fixed louvre grille – cotswold   *4905B 110mm x 54mm fixed louvre grille – terracotta   *4905W 110mm x 54mm fixed louvre grille – terracotta   *4905W 100mm gravity flap outlet – terracotta   *4905W 110mm x 54mm fixed louvre grille – terracotta   *900C 125mm gravity flap outlet – terracotta   *900D 125mm gravity flap outlet – terracotta   *900W 125mm gravity flap outlet – terracotta	4900B 4900BK 4900C 4900T	100mm gravity flap outlet – brown † 100mm gravity flap outlet – black † 100mm gravity flap outlet – cotswold 100mm gravity flap outlet – terracotta †
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*6904C150mm fixed louvre grille – cotswold*6904T150mm fixed louvre grille – terracotta		
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\* Available with Flyscreen – prefix F – example F4904B † Available retail packed – contact Sales Office for code

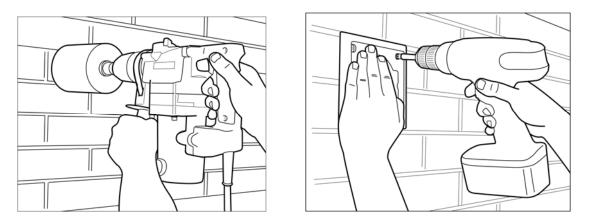
Polypipe Ventilation Sandall Stones Road Kirk Sandall Industrial Park Kirk Sandall, DN3 1QR UK tel: 08443 715523 fax: 08443 715524 Intl tel: +44 (0)1302 348878 fax: +44 (0)1302 348879 Email: vent.info@polypipe.com Web: www.polypipe.com/ventilation



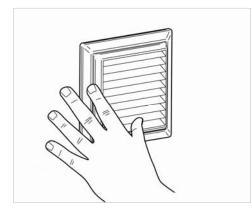


### Appendix B

### Installation Instructions



- Core drill to suit the external diameter of the pipe/duct ensuring that no buried services are affected. Insert a length of pipe and cut flush to match the total wall thickness. Seal pipe/duct in place to ensure that moisture cannot enter the fabric of the dwelling
- 2. Fasten the grille/outlet wall-plate to the wall using suitable fixings. Apply sealant to the rear face of the wall-plate prior to fastening to ensure that moisture cannot enter the fabric of the dwelling



**3.** Clip the outer grille/cowl/gravity flaps into the wall-plate. If fitted, ensure that the gravity flaps move freely



# Appendix C

### **Resistance Data in Pascals (Pa)**

4900 4901 4902 4903 4904 F4904 4905 F4905	@15I/s 9.2 13.2 6.7 6.1 2.0 9.9 4.1 20.0	@301/s 10.8 11.0 12.5 16.7 7.9 37.1 15.9 75.9	@ <b>601/s</b> 11.4 11.8 41.6 68.2 30.4 138.7 61.6 288.2
5900	6.7	9.9	12.7
5902	5.8	7.7	13.1
5904	0.6	2.1	7.7
F4904	2.0	7.1	24.6
6900	5.9	8.5	11.4
6902	5.3	8.0	14.5
6904	0.5	1.8	6.3
F6904	1.6	5.2	17.4

### Appendix D

### Free Area in mm<sup>2</sup>

		Of duct free area:		
4900	7200	92%		
4901	5770	109%		
4902	7230	92%		
4903	5800	110%		
4904	6500	83%		
F4904	5850	-		
4905	5500	104%		
F4905	4950	-		
5900	11200	91%		
5902	11500	94%		
5904	11500	94%		
F4904	9200	-		
6900	16000	91%		
6902	16500	93%		
6904	16500	93%		
F6904	13200	-		

