

Polypipe Ventilation **Specification**

for
Domus Grilles & Outlets
Issue 1



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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 cowed 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.



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

- 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.

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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

Appendix A

Range Details

4900B	100mm gravity flap outlet – brown †
4900BK	100mm gravity flap outlet – black †
4900C	100mm gravity flap outlet – cotswold
4900T	100mm gravity flap outlet – terracotta †
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 – terracotta †
4901W	110mm x 54mm gravity flap outlet – white †
4902B	100mm cowled outlet with damper – brown †
4902BK	100mm cowled outlet with damper – black †
4902C	100mm cowled outlet with damper – cotswold
4902T	100mm cowled outlet with damper – terracotta
4902W	100mm cowled outlet with damper – white †
4903B	110mm x 54mm cowled outlet with damper – brown
4903W	110mm x 54mm cowled outlet with damper – white
*4904B	100mm fixed louvre grille – brown
*4904C	100mm fixed louvre grille – cotswold
*4904T	100mm fixed louvre grille – terracotta
*4904W	100mm fixed louvre grille – white
*4905B	110mm x 54mm fixed louvre grille – brown
*4905C	110mm x 54mm fixed louvre grille – cotswold
4905T	110mm x 54mm fixed louvre grille – terracotta
*4905W	110mm x 54mm fixed louvre grille – white

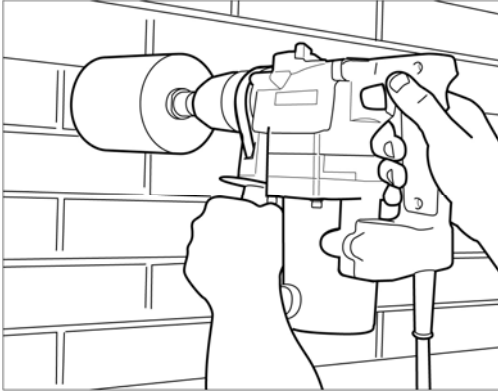
5900B	125mm gravity flap outlet – brown †
5900C	125mm gravity flap outlet – cotswold
5900T	125mm gravity flap outlet – terracotta
5900W	125mm gravity flap outlet – white †
5902B	125mm cowled outlet – brown †
5902C	125mm cowled outlet – cotswold
5902T	125mm cowled outlet – terracotta
5902W	125mm cowled outlet – white †
*5904B	125mm fixed louvre grille – brown †
*5904C	125mm fixed louvre grille – cotswold
*5904T	125mm fixed louvre grille – terracotta
*5904W	125mm fixed louvre grille – white †

6900B	150mm gravity flap outlet – brown
6900C	150mm gravity flap outlet – cotswold
6900T	150mm gravity flap outlet – terracotta
6900W	150mm gravity flap outlet – white
6902B	150mm cowled outlet – brown
6902C	150mm cowled outlet – cotswold
6902T	150mm cowled outlet – terracotta
6902W	150mm cowled outlet – white
*6904B	150mm fixed louvre grille – brown
*6904C	150mm fixed louvre grille – cotswold
*6904T	150mm fixed louvre grille – terracotta
*6904W	150mm fixed louvre grille – white

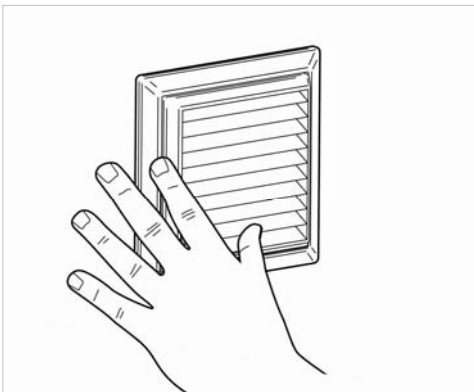
* Available with Flyscreen – prefix F – example F4904B
 † Available retail packed – contact Sales Office for code

Appendix B

Installation Instructions



1. 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)

	@15l/s	@30l/s	@60l/s
4900	9.2	10.8	11.4
4901	13.2	11.0	11.8
4902	6.7	12.5	41.6
4903	6.1	16.7	68.2
4904	2.0	7.9	30.4
F4904	9.9	37.1	138.7
4905	4.1	15.9	61.6
F4905	20.0	75.9	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 mm²

		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	-