

## WHAT ARE THE CHANGES FOR WINDOW MANUFACTURERS & INSTALLERS?

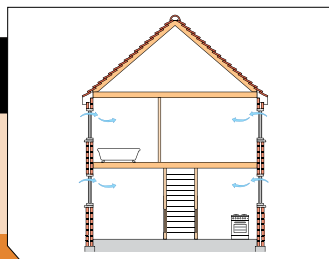
From 1st October 2006, replacement windows will fall under the Building Regulation requirements and unless existing ventilation provision is within a room, they will all require trickle ventilation. The level of ventilation must not be less that was originally supplied and for new requirements the following minimum sizes should be adopted:

## SELECTING A SUITABLE WINDOW VENTILATOR?

There are a wide range of products available and if you now have to comply with the requirements of ADF, you should consider the following to ensure the most suitable solution for the application;

- 1. Vent Positioning** – Can the vent be installed in the centre of the profile or should two vents be installed above each sash opening?
- 2. Performance** – Does it comply with ADF 2006?
- 3. Aesthetics, colour & control** – Is the product low profile when installed and are there a range of colour options to suit my customers requirements?
- 4. Rout** – Can the vent be physically accepted on the profile? What is the maximum rout size I can achieve?
- 5. Installation** – How long will the vent take to install? Are there any options that may reduce the production time?

### DWELLINGS



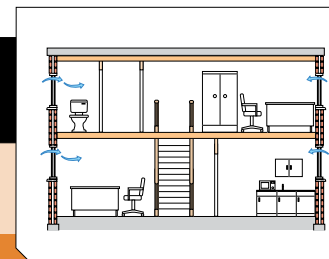
#### Equivalent Area

Habitable Rooms	5000mm <sup>2</sup>
Non Habitable Rooms	2500mm <sup>2</sup>

#### Purge Ventilation

Extract provisions are required in each habitable room (extract provisions are sufficient in other rooms e.g. kitchens, bathrooms) and should be capable of extracting a minimum of four air changes per hour (ach) per room directly to outside.

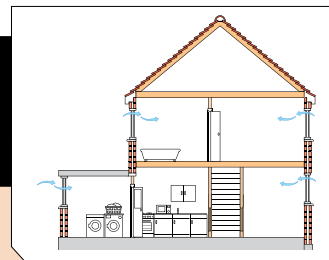
### BUILDINGS OTHER THAN DWELLINGS



#### Equivalent Area

Acceptable Rooms	
Floor areas up to 10m <sup>2</sup>	2500mm <sup>2</sup>
Greater than 10m <sup>2</sup>	250mm <sup>2</sup> per m <sup>2</sup> of floor area
Kitchen (domestic type)	2500mm <sup>2</sup>
Bathroom and shower rooms	2500mm <sup>2</sup> per bath or shower
Sanitary accommodation (and or washing facilities)	2500mm <sup>2</sup> per WC

### ADDITION OF A WET ROOM TO AN EXISTING BUILDING



Mechanical and Passive ventilation are required.

#### Equivalent Area

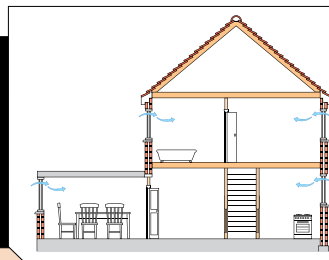
Mechanical Intermittent Extract Fan	15l/s
Background Ventilators	2500mm <sup>2</sup>

Alternative extract methods can also be used and the passive ventilation requirements added according to each system (detailed in ADF 2006) –

- Single Room Heat Recovery
- Passive Stack Ventilation
- Continuous Extract Ventilation

In addition there should be an undercut of minimum area 7,600mm<sup>2</sup> in any internal doors between the new wet room and the existing building (equivalent to 10mm above the floor finish for a standard 760mm width door).

### ADDITION OF A HABITABLE ROOM (NOT INCLUDING A CONSERVATORY) TO AN EXISTING BUILDING



1. If the additional room is connected to an existing habitable room which now has no external openable windows, the two habitable rooms can be treated as a single room for ventilation purposes.

**A permanent opening between the two rooms and provision for purge ventilation based on the combined floor area is required (refer to Appendix B in ADF) 8000mm<sup>2</sup> Equivalent Area background ventilation provision from the habitable room to the outside.**

2. If the additional room is connected to an existing habitable room with an openable window and background ventilator **less** than 5000mm<sup>2</sup>, requirement is as 1 above.

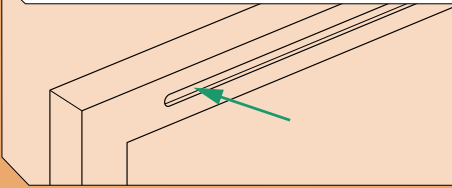
3. If the additional room is connected to an existing habitable room which still has openable windows opening to the outside **and** with a background ventilator of equivalent area at least 5000mm<sup>2</sup>.

**Provision of background ventilation should be at least 8000mm<sup>2</sup> equivalent area between the two rooms and at least 8000mm<sup>2</sup> equivalent area between the additional room and outside. Both openings should provide purge ventilation based on the combined floor area (refer to Appendix B in ADF).**

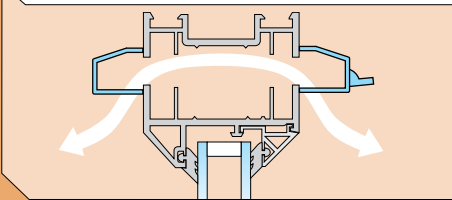
**EQUIVALENT AREA**

The performance measurement of trickle ventilators has also been changed to fall more in line with the new approaches set out in ADF 2006 –

EXISTING REQUIREMENT (FREE AREA) – TOTAL MM<sup>2</sup> AREA OF THE ROUT ON THE WINDOW



NEW REQUIREMENT (EQUIVALENT AREA) – AIRFLOW THROUGH INSTALLED VENTILATOR



**BS EN 13141-1: 2004 VENTILATION FOR BUILDINGS**

Trickle vents should be tested to the above standard and the performance at 1Pa permanently and visibly marked on the ventilator for inspection by building control.

**WINDOW VENTILATOR PRODUCT RANGE**

Product Code	Configuration	Equivalent Area (mm <sup>2</sup> )	Dimensions (mm) (length x height x deep)	Slot Sizes (mm) Length Central Gap Length	Control Options	Colour Options
<b>A Vent</b> 3000A.12	Inner Unit & Outer Canopy	1813	In: 280 x 18 x 6.5 Out: 280 x 26 x 24	250 12	F	W, B
4000A.12	Inner Unit & Outer Canopy	2623	In: 375 x 18 x 6.5 Out: 375 x 26 x 24	334 12	F	W, B
6000A.12	Inner Unit & Outer Canopy	3935	In: 555 x 18 x 6.5 Out: 555 x 26 x 24	250 15 250 12	F	W, B
8000A.12	Inner Unit & Outer Canopy	5013	In: 725 x 18 x 6.5 Out: 725 x 26 x 24	334 15 334 12	F	W, B
3000A.16	Inner Unit & Outer Canopy	1644	In: 230 x 18 x 6.5 Out: 230 x 26 x 24	188 16	F	W, B
4000A.16	Inner Unit & Outer Canopy	2393	In: 290 x 18 x 6.5 Ou: 290 x 26 x 24	250 16	F	W, B
6000A.16	Inner Unit & Outer Canopy	3397	In: 415 x 18 x 6.5 Out: 415 x 26 x 24	375 16	F	W, B
8000A.16	Inner Unit & Outer Canopy	3935	In: 555 x 18 x 6.5 Out: 555 x 26 x 24	250 15 250 16	F	W, B
<b>D Vent</b> 2000DF	Inner Unit & External Grille	1396	In: 219 x 26.5 x 11	165 13	F	W, B, T, BW
4000DF	Inner Unit & External Grille	2770	In: 414 x 26.5 x 11	165 30 165 13	F	W, B, T, BW
<b>New F Vent</b> 1250F	Inner Unit & Outer Canopy	1250	238 x 16.5 x 21	192 10 or 194 12	F	W, B, T, BW
2500F	Inner Unit & Outer Canopy	2500	383 x 16.5 x 21	163.5 10 163.5 10 or 164.5 10 164.5 12	F	W, B, T, BW
<b>L Vent</b> 2000LB	Inner Unit & Outer Canopy	1278	263 x 15 x 18	203 10	F	W, B, T, BW
4000LB	Inner Unit & Outer Canopy	2779	485 x 15 x 18	203 20 203 10	F	W, B, T, BW
<b>HD Vent</b> 4000HDF	Inner Unit & External Grille	2697	286 x 28.5 x 13	235 18	F	W, B, T, BW
8000HDF	Inner Unit & External Grille	5605	540 x 28.5 x 13	235 20 235 18	F	W, B, T, BW
<b>S Vent</b> 3000S	Inner Unit & Outer Canopy	1753	305 x 22 x 23	243 12.5	F, B, PC	W, B, T, BW, WIBO, WITO
4000S	Inner Unit & Outer Canopy	2671	400 x 22 x 23	163 15.5 163 12.5	F, B, PC	W, B, T, BW, WIBO, WITO
6000S	Inner Unit & Outer Canopy	3362	550 x 22 x 23	243 15.5 243 12.5	F, PC	W, B, T, BW, WIBO, WITO
<b>T Vent</b> 4000TS	Inner Unit & Outer Canopy	3030	In: 348 x 27 x 7.8 Out: 400 x 22 x 23	165 15 165 16	F	BW
6000TS	Inner Unit & Outer Canopy	3986	In: 462 x 27 x 7.8 Out: 550 x 22 x 23	188 15 188 16	F	BW

Controls: F - Front, B - Bottom, PC - Pull Cord. Colours: W - White, B - Brown, T - Tan, BW - Brilliant White, WIBO - White Inner Brown Outer, WITO - White Inner Tan Outer. Glazed-in (PVC and aluminium) and overframe systems are also available. Please call for further information.

**NEW BUILD WINDOWS**

Mechanical and passive ventilation are now integrated for new build properties and each dwelling type will now require a different level of ventilation, based on a calculation of floor area, no of bedrooms and occupancy levels. Due to the nature of these changes, the requirements are performance based and require a high level of design focus.

For further information or to discuss the requirements in more details, please contact Greenwood Airvac Technical Services on **01903 777135**.

**F VENT**

A new addition to the Greenwood Window Vent range has been designed with the new Building Regulations in mind. The F Vent range achieves optimal equivalent area performance and has minimal visual impact when installed on a window profile. In addition, the vent is offered with a **new clip fit** option, a feature which offers valuable savings on installation. **Available in July 2006**, the vent is an ideal solution for the implementation of ADF on 1st October 2006.



**Greenwood Air Management Ltd** Greenwood House, Brookside Avenue, Rustington, West Sussex, BN16 3LF.  
Tel: (01903) 771021 Fax: (01903) 782398 Web: www.greenwood.co.uk, www.partf.com Email: info@greenwood.co.uk

**Distributed by:**



**Carl F Petersen (UK) Ltd**

Unit Q, Tyson Courtyard, Weldon South Industrial Estate, Northants NN18 8AZ  
Tel: 01536 401155 Fax: 01536 401157  
Website: www.carlf.co.uk Email: sales@carlf.co.uk