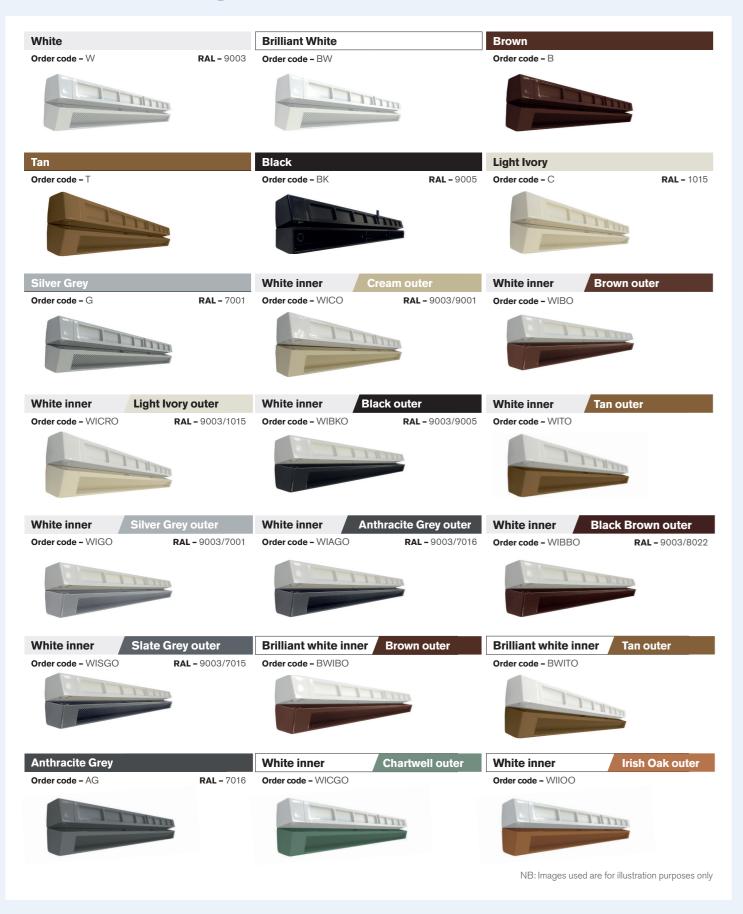
Window Vent colour range



Example product code matrix: 3000S +**B** + **BW** = Bottom operating single slot brilliant white S Vent

Regulation Requirements

Regulations for refurbishment & replacement windows England and Wales

ADF: 2010 Section 7 Work on existing buildings

Refurbishment and replacement windows ompliance for ventilation in replacement windows

Ventilation provision for new dwellings

Ventilation rates are set out in the document under four standard methodologies:

System 1	Background Ventilators Intermittent Extract Fans	and
System 2	Passive Stack Ventilation	n
System 3	Continuous Mechanical Extract Ventilation	Central Mechanical Extract Ventilation
System 4	Continuous Supply and Ventilation with Heat Re	

Background ventilation

Table 5.2a

Total equivalent ventilator area^[a] (mm²) for a dwelling with any design air permeability

Total floor area	Number of bedrooms ^[b]									
(m²)	1	2	3	4	5					
< 50	35000	40000	50000	60000	65000					
51-60	35000	40000	50000	60000	65000					
61-70	45000	45000	50000	60000	65000					
71-80	50000	50000	50000	60000	65000					
81-90	55000	60000	60000	60000	65000					
91–100	65000	65000	65000	65000	65000					
>100		Add 7000mm ² fo	or every additiona	al 10m² floor area						

Alternative guidance on total equivalent area^[a] (mm²) for a dwelling with a designed air permeability leakier than (>) 5m³/(h/m²) at 50 Pa

Total floor area		Nu	mber of bedroom	IS ^[b]	
(m²)		2	3	4	5
< 50	25000	35000	45000	45000	55000
51-60	25000	30000	40000	45000	55000
61-70	30000	30000	30000	45000	55000
71-80	35000	35000	35000	45000	55000
81-90	40000	40000	40000	45000	55000
91–100	45000	45000	45000	45000	55000
> 100		Add 5000mm² fo	or every additiona	al 10m² floor area	

Airflow rates

Table 5.1a

Extract ventilation rates

Please refer to ADF 2010 for the full calculation requirements for System 1-4

Room	Intermittent extract	Continu	ous extract
	Minimum rate	Minimum high rate	Minimum low rate
Kitchen	30 l/s adjacent to hob or 60 l/s elsewhere	13 l/s	Total extract rate should
Utility room	30 l/s	8 l/s	 be at least the whole dwelling ventilation rate
Bathroom	15 l/s	8 l/s	given in Table 5.1b
wc	6 l/s	6 l/s	

Table 5.1b

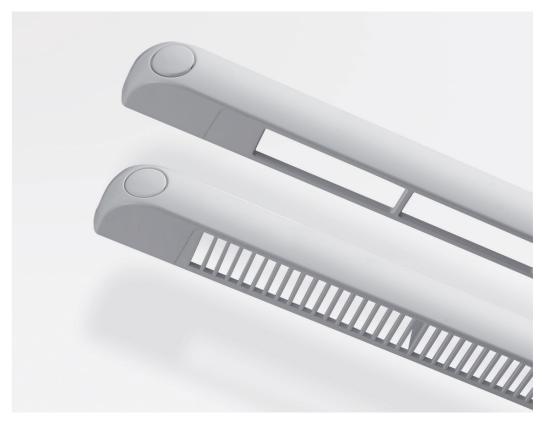
		Numbe	r of bedrooms in (dwelling	
	1	2	3	4	5
Whole dwelling ventilation rate	13	17	21		29

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Window Vents

Passive ventilation



2 year warranty

Independently tested and accredited

Large range of options

Acoustic ventilation solutions



Performance is crucial, not only for Building Regulation compliance, but also the health and wellbeing of occupants. With people spending up to 70% of their time indoors, it is vital that buildings are ventilated correctly.

We want to ensure you have 100% confidence in the performance of our products and that's why they are all tested to the latest British and European Standards by independent, third party accredited test houses. Full copies of our test information is available on request.

For Window Vents

BS EN 13141-1: 2004 BS EN 1026: 2000

Email: orders@greenwood.co.uk Tel: +44 (0) 1276 605 800

Zehnder Group UK Ltd, Unit 4 Watchmoor Point, Camberley, Surrey, GU15 3AD

- BS EN 1027: 2000
- BS EN ISO 717-1: 1997
- Air Permeability
- Watertightness
 - Airborne Sound Insulation (dB)

Ventilation for Buildings



Design: > 5ach at 50 Pa



Design: < 5ach at 50 Pa

Building Regulations for Window Vent Requirements in new build vary depending on air tightness levels

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Window Vent Product Range

Example product code matrix: 3000S + **F** + **WICO** = Front operating single slot S Vent with white inner and cream outer

Product	selector										Do a w (dD)	
Slotvents		Control Options	Features and benefits	Colours*	Used on over-frame	Cross section	Model codes	Slot lengths	Slot height	Equivalent area (mm²)	Dn,e,w (dB) Acoustic performance (max for range)	Configurations and additional info
			Slimline, unobtrusive finish on profile when				1250FB		10 12	1342 1362	37	1250FB & 2500FB Complete unit supplied with bottom
F Vent		В	installed > Up to 2634mm² equivalent area	W, BW, B, T, WIBO, WITO			2500FB	163.5 10 163.5	10	2583	33	operation
		ь	> Screw fix and clip fit installation options	W, DW, D, 1, WIDO, WITO				164.5 10 164.5 192	12	2634	33	1250FBC & 2500FBC Complete unit supplied with bottom
			> 10 or 12mm rout options				1250FBC	194	12	1342 1362	37	operation and clip fit
						II II	2500FBC	163.5 10 163.5	10	2583	33	•
									12.5	2634 1800		An optional sleeve is available for
	200		 Up to 4200mm² equivalent area Selection of control options 	W, BW, B, T, C, G, BK, WIBO,			3000S	265	16	2500	35	bridging the window frame across the rout. Its use encloses the passage of
S Vent	I	F, B, PC	 Upward and downward air deflection options 	WITO, WICO, WICRO, WIAGO, WIGO, WIBBO, WIBKO,			4000S	163 15.5 163	12.5	2700	33	air between the inner and outer frame sections improving
			 Widely specified within the social sector Suitable for installation with sleeves that help 	WISGO, BWITO, BWIBO, AG				175 10 175 243 15.5 243	16 12.5	3200 3400		the overall integrity of the window.
			improve window integrity				6000S	250 10 250	16	4200	32	
								203	40	4000	0.5	
			 Slimline design for low profile window frames Up to 3200mm² equivalent area 	W, BW, B, T, BK, WIBO, WITO,			2000L	203	10	1600	37	
L Vent		В	> Bottom operation	WIBKO								
			> Small 10mm rout				4000L	203 20 203	10	3200	34	
			➤ Up to 3300mm² equivalent area for through			En en 🗾	2000D	165	13	-	34	
DWant	The state of the s		frame applications External louvred grille				4000D	165 30 165	13	_	33	2000D & 4000D Internal unit only
D Vent		F	 Upward air deflection to prevent draughts 	W			2000DF	165	13/16	1400/1700	34	2000DF & 4000DF Complete unit with EG Grille and
			 Discreet design provides a pleasing installed finish 				4000DF	165 30 165	13/16	2800/3300	33	front control
							4000HD	235	18	_	33	4000HD & 8000HD
	* 221		➤ Up to 6800mm² equivalent area				8000HD	235 20 235	18	-	31	Internal unit only 4000HDF & 8000HDF
HD		F	External louvred grilleUpward air deflection to prevent draughts	W, BW, B	✓		4000HDF 8000HDF	235 20 235	18	3200 6400	33	Complete unit with EG Grille and front control
			 Designed for use on wide window profiles 					235 20 235	10	6400	31	8000HDFF
						11 11	8000HDFF	235 20 235	18	6800	31	Complete unit with AEF Flyscreen and front control
	-3000 kg /		> Smallest 5000mm ² equivalent area vent on the			D. C. D. A.	2500EAW-IO	192	13	-	-	
2500/		F	market – just 410mm long > Easy to apply 13mm rout for installation on	W	,		2500EA	192	13	2500	36	2500EAW-IO & 5000EAW-IO Internal unit only (White only)
5000 EA			window profile	VV	V		5000EAW-IO	165 10 165	13	_	-	2500EA & 5000EA Complete unit with front control
			> Manufactured from aluminium alloy				5000EA	165 10 165	13	5000	33	
			> Designed for use in combustion environments									
GB		PO	 Permanent ventilation Conforms to BS 5440: Part 2:2000, which 	W			5000GB	176 20 176	15	5000	N/A	
			recommends permanent marking									
			> Free Area Performance									
				*refer to back page for full								
Permavents			_	colour range				Carrier length	Glass reduction			Example order
			> Provides various levels of equivalent area,				BC4HD	450, 600, 750, 900, 1200, 1500		3200	33	
Bar Carrier	No.	F, B,	based on Slotvent option Range of glazing options, suitable for single	W			BC8HD	600, 750, 900, 1200, 1500		6400	31	BC4HD + required glazing thickness,
Janiel		PC, PO	and double glazed units	VV			BCS	450, 600, 750, 900, 1200, 1500	55mm	2700	33	e.g. 20 mm + carrier length, e.g. 750 mm
			 Slimline design requires only minimal glass reduction of 55mm 				BCGB	450, 600, 750, 900, 1200, 1500		5000 Free Area	n/a	
				*refer to back page for full								

*refer to back page for ful colour range

Control Options F= Front operated **B**= Bottom operated **PC**= Pull cord operated **PO**= Permanently open

All products are independently tested to the latest British and European standards. Information available on request.

Acoustic Ventilation Range

Fresh air in or out - no noise.

The Acoustic Ventilation range ensures the required level of ventilation is provided whilst reducing the transfer of noise when dwellings are situated close to busy roads and airports. A full range of window and wall ventilators are available, including the highest performing product in the UK.

Acoustic Window Ventilator 2500EA & 5000EA

achieves Building Regulations'
EA requirements along
with outstanding acoustic
performances up to 45dB(A)



Model codes	DN Vent	2500 EA	5000 EA	EAR42W	AWV39	MA3051	AAB
Description	Acoustic window ventilator	Acoustic wind	dow ventilator	Acoustic window ventilator	Acoustic wall ventilator	Acoustic wall ventilator	Acoustic airbrick
Mounting options	Window	Window	Window	Window	Wall	Wall	Wall
Control Options	F	F	F	A			
Features and Benefits	vent providing attenuation up to Dn,e,w 37dB(A) > 1400mm² equivalent area > Internal unit (D Vent) provides upward deflection > Suitable for installation up to two	ventilation on the m Achieves the best a for window ventilate UK – up to 45dB(A A simple, yet adapte meet required spec Regulation required both high levels of e		 One of the best performing acoustic window ventilators available in the UK Provides an outstanding Dn,e,w; 42dB(A) for areas with high external noise transmission Humidity control to regulate supply of fresh air effectively throughout the 		Highest performing acoustic background ventilator Provides acoustic attenuation to Dn,e,w 55dB(A) 2500mm² equivalent area performance Suitable for external wall	 Provides acoustic attenuation to Dn,e,w 46dB Acoustic background ventilator 2500mm² equivalent area Supplied with internal hit & miss and external louvred grilles
						thicknesses of 140mm and above	
Colour/Material					B/W		pre-galvanised grey steel
xtract or replacement					B/W Replacement	140mm and above	
xtract or replacement ir ventilation	w	performance > Aesthetically pleasi is easy to open and homeowner > Excellent airtightne upward air deflectio of draughts > May require add on window installations	ng design which control by the ss performance with on to reduce the risk section in some	changing indoor humidity levels		140mm and above	grey steel
xtract or replacement r ventilation odels	W Replacement	performance > Aesthetically pleasi is easy to open and homeowner > Excellent airtightne upward air deflectio of draughts > May require add on window installations W Replacement	ng design which control by the ss performance with on to reduce the risk section in some s W Replacement	changing indoor humidity levels W Replacement	Replacement	PVC Replacement	grey steel Replacement
xtract or replacement r ventilation odels	W Replacement	performance > Aesthetically pleasi is easy to open and homeowner > Excellent airtightne upward air deflectio of draughts > May require add on window installations W Replacement 2500EAW. AC1 2500EAW. AC2	ng design which control by the ss performance with on to reduce the risk section in some s W Replacement 5000EAW. AC2	changing indoor humidity levels W Replacement EAR42W	Replacement	PVC Replacement	grey steel Replacement
olour/Material xtract or replacement ir ventilation lodels lotvent height lotvent width coustic erformance Dn,e,w)	W Replacement 1600DNFW 15.5	performance > Aesthetically pleasi is easy to open and homeowner > Excellent airtightne upward air deflectio of draughts > May require add on window installations W Replacement 2500EAW. AC1 13	ng design which control by the ss performance with on to reduce the risk section in some s W Replacement 5000EAW. AC1 5000EAW. AC2	changing indoor humidity levels W Replacement EAR42W	Replacement	PVC Replacement	grey steel Replacement

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