FAO RETROFIT COORDINATORS
Please use this technical sheet as part of your Retrofit Design Form

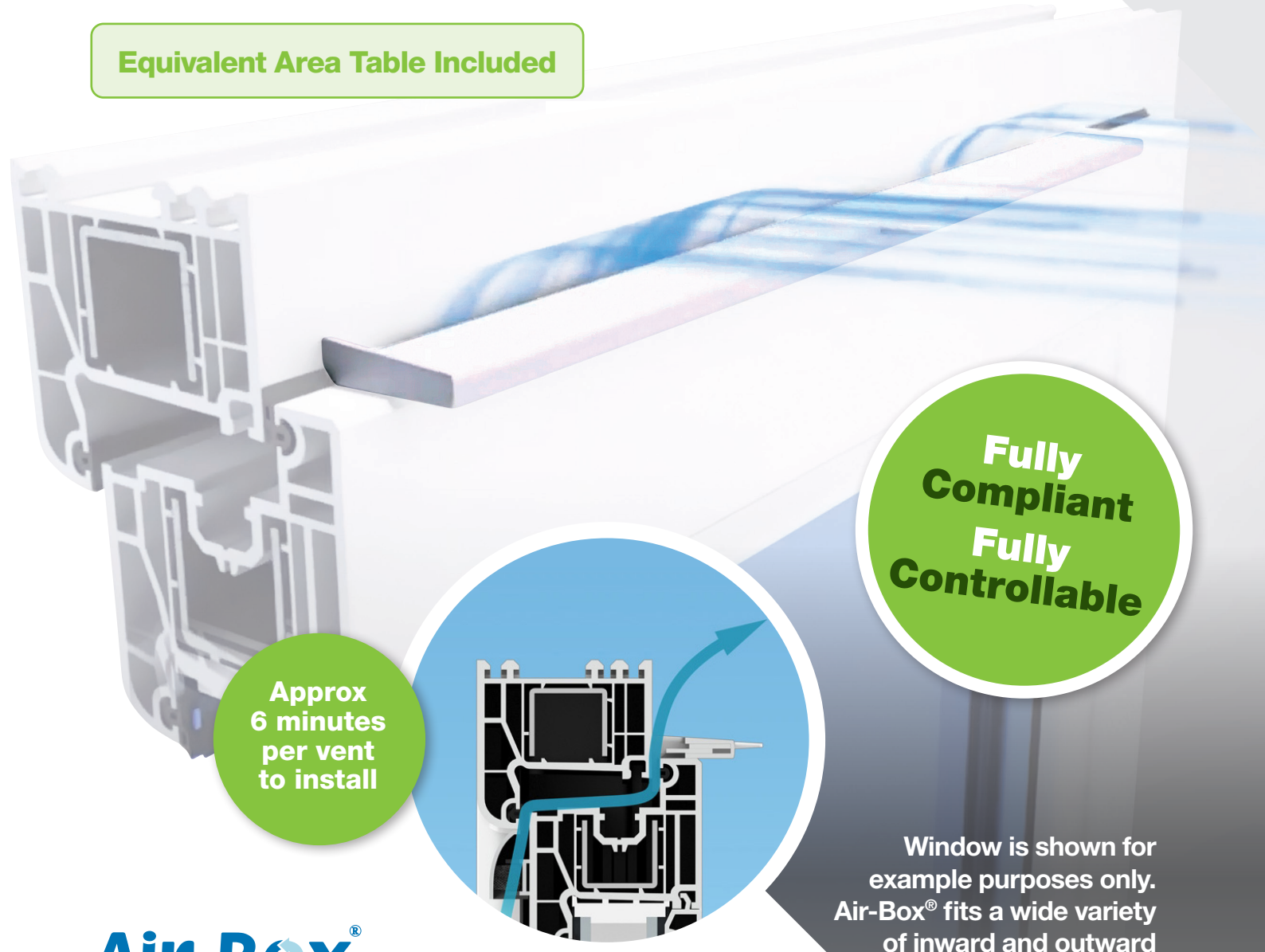
pas safe SOLUTIONS

PAS2030: 2023
TECHNICAL INFORMATION

Incorporating Approved Document: Part F (2021)

BS EN 13141-1 TESTED BRE – 2021/2022

Equivalent Area Table Included



Fully Compliant
Fully Controllable

Approx 6 minutes per vent to install

Window is shown for example purposes only. Air-Box® fits a wide variety of inward and outward opening windows.

Air-Box®

A perfect solution for ECO installers meeting **PAS2030: 2023** requirements easily and inexpensively with no drilling required!

Ventilation Product Tested to BS EN 13141 – 1

Tens of thousands sold and successfully installed in ECO sector since August 2021

Air-Box®

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Technical Passport

The Air-Box ventilation valve is used for the purpose of air exchange in accordance with the Europe standards and guidelines DIN EN 1946-6, DIN EN 18017-3, EnEV 2009 and 2014, “Heating and ventilation in residential and public buildings”

TECHNICAL SPECIFICATION

	Air-Box Comfort
Air permeability	1-43 m3/h
Operating temperature	-45°C - +75°C
Dimensions 1. Valve 2. Filter	1.350 x 42.5 x 8.5mm
Weight	100 gr.
Colour	White, Brown (RAL8017), Anthracite (RAL7016)
Material	ABS, PVC, TPE
Installation	Suitable for all PVC window brands. Suitable for Inward and Outward Opening Windows

COMPLETION	
Valve Air-Box	1 Unit
External filter guard	-
Filter (G2,G3,G4 according to EN779)	-
Fasteners	2 pcs. (350mm)
Packing Spacers	4 pcs.
Screws diameter 4mm	3 pcs.
Instructions	1 pcs.
Individual packaging	1 pcs.
Packaging (box)	100 pcs.

Air-Box Comfort air permeability in accordance with the Europe standards and guidelines DIN EN 1946-6, DIN EN 18017-3, EnEV 2009 and 2014, “Heating and ventilation in residential and public buildings”

Pressure difference (Pa)	Air permeability (m3/h) Air-Box Comfort
10	13
20	18.5
30	23.3
40	27.5
50	32
100	43

Declaration of Conformity

Nr. 21122018-1

PRODUCT

Made in accordance with Technical Specifications TU 22.29.29-001-15517111-2018 (serial release)

MANUFACTURER

LLC REMSON
Gogoļa iela 21,
Riga,
LATVIA
LV-1050

Registered Number: 40103886057

ISSUED BASED ON

1. The following certification testing protocols: Nr.181219 no 19.12.2018 issued by a testing laboratory “Aru Grupp AS laboratory, Hulja, Lääne-Virumaa, Estonia” from a limited liability company “Protsessiekspert OÜ, Rakvere, Lääne-Virumaa, Estonia” (reg.nr. 12173711)
2. Test report Nr.1003-02/12-TsST no 22.02.2018 issued by a testing laboratory “TsST-Ispytaniya” from a limited liability company “CENTR-STANDART”, registered accreditation certificate Nr. POCC RU.31485.04-0.004
3. Sanitary and epidemiological testing Nr. 1206-01281 DA no 04.06.2012

The Air-Box ventilation valve is used for the organization of air exchange in accordance with the Europe standards and guidelines DIN EN 1946-6, DIN EN 18017-3, EnEV 2009 and 2014, “Heating and ventilation in residential and public buildings”.

Air-Box products are outside of the scope of the Construction Directive 89/106/EEC, they do not fall under a uniform standard, and they are not subject to the mandatory CE 89/106/EEC certification.

LLC REMSON / Member of the Board:
Andrejs Voronovs
Riga, 21.12.2018

This Air-Box ventilation product has been tested to BS EN 13141 – 1 by BRE as required by Approved Document – Part F (2021). This is a new version of the standard launched in June 2022.

Airbox is a Fully Compliant Product.

Air-Box® Comfort

Tested extensively to various European standards including DIN EN 1946-6, DIN EN 18017-3, EnEV 2009 and 2014, “Heating and ventilation in residential and public buildings”, Air-Box has also been tested BS EN 13141-1 by BRE which is a requirement of Building Regulations Part F and in turn PAS2030: 2023. The key feature of the Air-Box Comfort Valve is the ability to quickly install the product without milling or drilling a window profile.

Principle of Operation

Fresh external air enters the channel between the frame and sash at the location of the removed section of a typical seal (bottom of the window – external side). The valve installed on the top or side of the window then allows fresh external air to circulate the room. Adjusting the flat slider ensures smooth air flow control. At Installation, packing spacers are provided to achieve the required 2,094mm² of EqA (the equivalent area) to comply with Part F Building Regulations. These regulations were revised for 2021 and launched in June 2022. This states that rooms will require either 4,000mm² or 8,000mm² depending on how they are currently ventilated.

Therefore, the fitting of two devices to each room (or window) is recommended to achieve an Equivalent Area (EqA) in excess of 4,000mm² where this is required (either when a wet-room or when the habitable room is situated in a property which has continuous ventilation. Where 8,000mm² is required for each habitable room, four devices may be fitted subject to the size of the windows available. This is normally required for habitable rooms in properties with non continuous ventilation installed.

It is your responsibility to establish the Equivalent Area (EqA) required for each room. Please contact PAS Safe Solutions for more information if this is needed.

Pricing

Quantity	Price (each)
0-99	£12
100-499	£10
500-999	£9.50
1,000+	£9

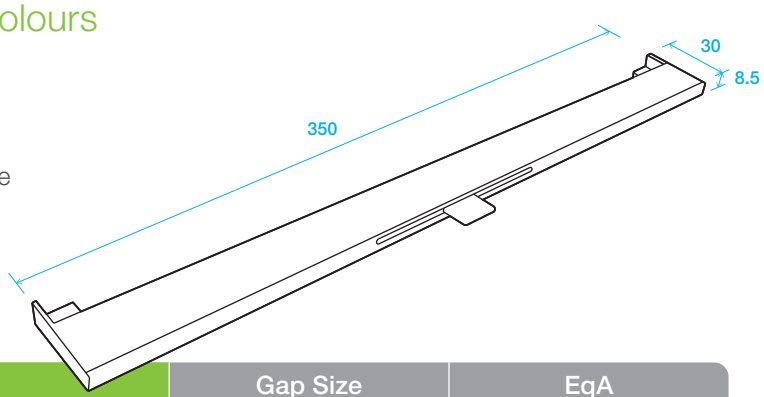
If ordering less than 100 units an additional delivery charge of £17.50 plus VAT to cover costs will be invoiced at time of order.

Available colours

White

Anthracite

Brown



Equivalent Area Calculation Table	Gap Size	EqA
	3mm	1,550mm²
	6mm	2,094mm²

PAS Safe Solutions are the specialist ECO supplies company bringing a variety of solutions to Energy Company Obligation installations. PAS Safe Solutions are fast becoming a single source supplier for ECO installers. Make sure you see what other solutions we have available. Many new ideas are coming on stream over the coming months.

Please call us on 01995 510184 or email sales@passafesolutions.com

Every client has the opportunity to work with a dedicated account manager who will ensure you have a single point of contact to detail with any aspect of working with us and getting you the right compliant products for your project delivery needs.

The Air-Box product has been fully tested to BS EN 13141 – 1 by BRE as required by Approved Document – Part F 2021.

Air-Box is a **background ventilation** product designed to provide controllable ***whole building ventilation*** as defined by Approved Document F. Therefore, the product meets the requirements as laid out in PAS2030: 2023.

Spacers are provided in the fitting kit which increases the gap between the valve from the window to create the space through which the air will flow. The spacers provided must be installed to create 2,094mm². Most windows can achieve this using the spacers provided. The product has the EqA marked on the front face as well as the BS EN 13141-1. These markings coupled with the full controllability of the installed device makes clear the Airbox meets the criteria laid down in Part F.

It is your responsibility to ensure this product (when used alone) is installed to meet the required air permeability measure of 4,000mm² by installing two each individual room where DMEV (continuous) ventilation is installed and 8,000mm² if ventilation is intermittent. The calculations vary for wet-rooms which can be calculated using the tables in Part F.

Part F makes clear that a trickle vent must provide adjustable and controllable ventilation. The Airbox achieves this with the inclusion of an in-built sliding control mechanism which provides stages of airflow from fully on, to fully off and all stages in between. This level of controllability is a fundamental requirement of Part F.

A trickle vent which does not provide this degree of controllability will fail any assessment under PAS2030:2019 and PAS2035. Please do not fit any such trickle vents in a household where non-controllable trickle vents have been installed.

Air-Box does not have a BS Kitemark or CE Mark. CE Marking on a product is a manufacturer's declaration that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation, but it is not a quality mark and does not necessarily mean that the product will be suitable for all end users in all Member States.

The Construction Products Regulation July 2013 came into force from 01/07/13 which is mandatory and legally binding on all Manufacturers, Importers & Distributors of all Construction Products covered by Harmonised European Standards (HENs) or conforming to a European Technical Assessment (ETA). Air-Box products do not come under either the HENs or ETAs. Consequently Air-Box products are not CE marked. There is also no Kitemark or BS mark which would be applicable to this product.

The Building Regulations 2000, Approved Part F indicate that a product of this type should be tested to BS EN13141-1 which was carried out by BRE in December 2021 and again in February 2022. This is not a pass or fail test.

The product's air permeability has already been tested to EN1026: 2016. Air-Box is used for the purpose of air exchange in accordance with the Europe standards and guidelines DIN EN 1946-6, DIN-EN 18017-3, EnEV2009 and 2014, "Heating and ventilation in residential and public buildings".

If Technical Monitoring Agents, Retrofit Designers, Retrofit Coordinators or ECO Funding Companies have any queries, on the product, please call on 01995 510184. PAS Safe Solution have in-house qualified ventilation experts and Retrofit Coordinators who will explain any correctly from Approved Document: Part F. This may be as aspect of the product being used in ECO under the current scheme requirements.

PAS Safe Solutions Limited
May 2025

www.passafesolutions.co.uk