



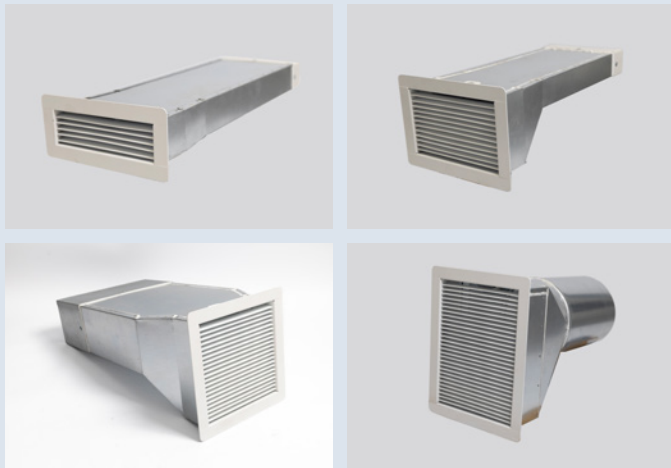
 **NON COMBUSTIBLE
PRODUCT**

ResiBRICK^{A1}

A1 Rated Airbrick & Duct Transition Kit

ResiBRICK^{A1} is an A1 non-combustible airbrick and duct transition kit. Suitable for use as an external termination for MVHR ventilation systems in residential applications.

Available in a range of sizes and manufactured in the UK, the ResiBRICK^{A1} range is tested to meet the requirements of the A1 and A2-s1,d0 classifications for fire safety.



Building Regulations Residential Ventilation & Fire Safety

The use of non-combustible materials is now mandated in critical areas of residential buildings.

Approved Document B Volume 2 (2019 edition incorporating 2020/22 amendments), advises combustible materials have been banned in and on the external walls of buildings in the following instances;

New Residential Buildings	Over 18m	England
	Over 11m	Scotland
Retrofit Works Residential Buildings e.g. undergoing unsafe remediation works for cladding	Over 11m	



All materials used in the construction of an external wall in the required buildings must meet European Fire Classification of A1 or A2-s1,d0



Where residential apartment buildings fall within these criteria, products and systems of an external wall must achieve A1 Non-Combustibility to BS EN 13501w+ A1:2018 to prevent the spread of fire through ventilation systems where the ventilation ductwork terminates through the building façade.

Unique Mechanical Fixing Don't just seal it. Secure it.

ResiBRICK^{A1} offers a unique mechanical fixing for longevity, safety, and reliability in performance-critical environments.

Permanent Fixing
Unlike perishable adhesives or mortar, the mechanical fixings offer a stable, non-degrading installation method that retains performance over the full life cycle of the building envelope

Improved Safety
Mechanical fixing ensures ResiBRICK^{A1} stays securely in place, minimising any risks of displacement, obstruction, or failure

Faster Installation
Pre-engineered, all ResiBRICK^{A1} kits are provided with a special tool for onsite installation - simply fit and secure together



All in one ducting kits Easy Fix. Site Ready.

ResiBRICK^{A1} is supplied as a kit, comprising airbrick with standard 600mm duct, to suit a range of duct connections from 204x60mm up to 400x125mm.

Ducting kits are manufactured ready to fit with additional connectors for secure connection from interior to exterior without the need for on-site modification.

Bespoke duct lengths and sizes are also available on request.



ResiBRICK ^{A1} Range	Ducting Transition (mm/Ø)
Single	204x60, 125
Single XL	204x60, 220x90, 125, 150
Double	204x60, 220x90, 150, 180
Triple	300x100, 300x125, 180, 200
Quad	400x100, 400x125, 200, 250



The Triple
Duct Options: 300x100/300x125mm or 180/200Ø

The Quad
Duct Options: 400x100/400x125mm or 200/250Ø

Designed for Part O Compliance

Part O of the Building Regulations is responsible for controlling overheating in residential buildings, especially in multi-residential apartments and has become a critical design factor.

One of the key challenges faced by M&E consultants and ventilation designers is achieving higher airflow rates using MVHR systems, particularly in space-restricted environments.

The ResiBRICK^{A1} range includes larger termination options pre-sized and tested.

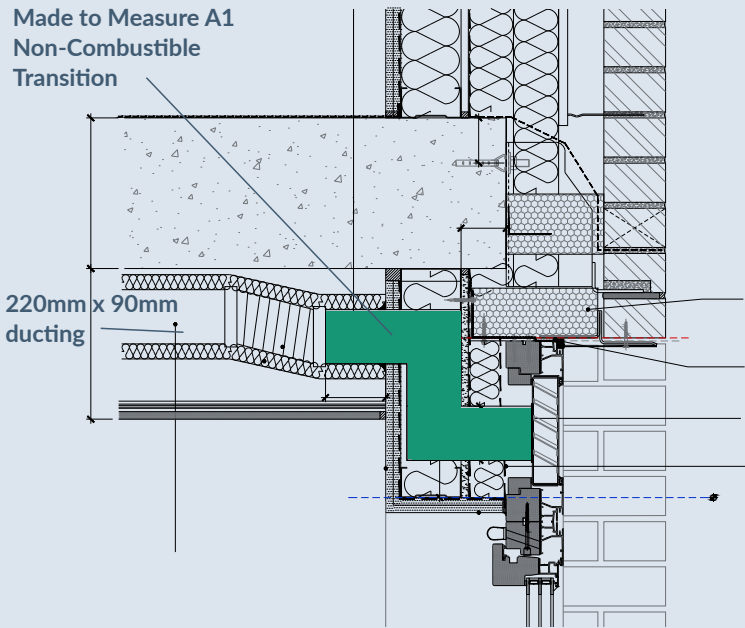
The Triple and Quad products have been specifically developed to support higher volume air movement. These larger airbricks and duct transition kits match the increased capacity of the Pinnacle ResiDUCTTM range, a low profile ducting solution perfect for high airflow requirements.

ResiBRICK ^{A1} Range	Free Area (mm ²)
Single	11,610
Single XL	17,415
Double	25,155
Triple	42,570
Quad	58,050

Bespoke Design

Every building is different and so are its ventilation challenges.

We offer a fully bespoke service for ResiBRICK^{A1} and ducting transition kits, tailored precisely to your project requirements.



ResiBRICK^{A1} Single Fire Rated Airbrick and Ducting Kits



- Designed to be built into external wall types during construction in accordance with Approved Document B (fire safety)
- Single airbrick with and without picture frame design
- ResiBRICK^{A1} duct transition kits with 600mm duct and varying connections
- Unique mechanical fixing for added strength and security
- Female connectors included for easy transition to internal duct (rectangular)
- Compatible with rigid PVC and metal ducting - ideal for use with ResiDUCTTM
- Optional lengths and bespoke grille sizes available on request

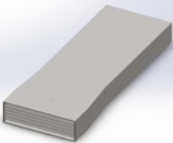
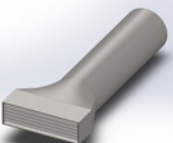
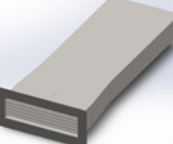
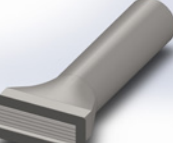
Manufacturing:

- Class A1: 0.9mm hot dipped galvanised steel considered a non-combustible material (Class A1 without testing) in accordance with European Commission paper 96/603/EC (referenced in BS EN 13501w+ A1:2018).
- RAL powder coating finish – EN13501-1 Classification Class A2-s1,d)
- Intumescent Sealant Nullifire FS709. Reaction to fire Class E EN13501-1 Resistance to fire Classified in accordance with EN 13501-2.

Technical Datasheets and CAD files available
www.pinnaclehvacsolutions.co.uk

11610 mm ² Free Area	5 standard RAL colours
Registered Design	Rectangular ducting kits supplied with female connectors

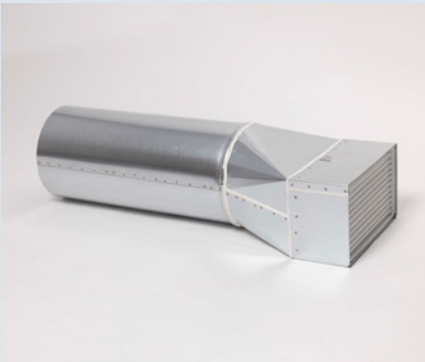
Single ResiBRICK^{A1} Range

Single ResiBRICK ^{A1}	Dimensions l x h x d (mm)	Product	Product Codes
ResiBRICK ^{A1} Single	ResiBRICK ^{A1} Kit 204 x 60	215 x 65 x 60 (Airbrick) 600mm duct transition	 RB-SIN-204/600
	ResiBRICK ^{A1} Kit 125 Ø	215 x 65 x 60 (Airbrick) 600mm duct transition	 RB-SIN-125/600
ResiBRICK ^{A1} Single with Picture Frame	ResiBRICK ^{A1} Kit 204 x 60	265 x 120 x 60 (Airbrick) 600mm duct transition	 RB-SINPF-204/600
	ResiBRICK ^{A1} Kit 125 Ø	265 x 120 x 60 (Airbrick) 600mm duct transition	 RB-SINPF-125/600

Note: Airbrick fitted inside duct transition. Overall length 600mm.

ResiBRICK^{A1} Single XL

Fire Rated Airbrick and Ducting Kits



- Designed to be built into external wall types during construction in accordance with Approved Document B (fire safety)
- Single XL airbrick with and without picture frame design
- ResiBRICK^{A1} duct transition kits with 600mm duct and varying connections
- Unique mechanical fixing for added strength and security
- Female connectors included for easy transition to internal duct (rectangular)
- Compatible with rigid PVC and metal ducting - ideal for use with ResiDUCT™
- Optional lengths and bespoke grille sizes available on request

Manufacturing:

- Class A1: 0.9mm hot dipped galvanised steel considered a non-combustible material (Class A1 without testing) in accordance with European Commission paper 96/603/EC (referenced in BS EN 13501w+ A1:2018).
- RAL powder coating finish – EN13501-1 Classification Class A2-s1,d)
- Intumescent Sealant Nullifire FS709. Reaction to fire Class E EN13501-1
- Resistance to fire Classified in accordance with EN 13501-2.

Technical Datasheets and CAD files available
www.pinnaclehvacsolutions.co.uk

17415 mm ² Free Area	5 standard RAL colours
Registered Design	Rectangular ducting kits supplied with female connectors

ResiBRICK^{A1} Double

Fire Rated Airbrick and Ducting Kits



- Designed to be built into external wall types during construction in accordance with Approved Document B (fire safety)
- Double airbrick with and without picture frame design
- ResiBRICK^{A1} duct transition kits with 600mm duct and varying connections
- Unique mechanical fixing for added strength and security
- Female connectors included for easy transition to internal duct (rectangular)
- Compatible with rigid PVC and metal ducting - ideal for use with ResiDUCT™
- Optional lengths and bespoke grille sizes available on request

Manufacturing:

- Class A1: 0.9mm hot dipped galvanised steel considered a non-combustible material (Class A1 without testing) in accordance with European Commission paper 96/603/EC (referenced in BS EN 13501w+ A1:2018).
- RAL powder coating finish – EN13501-1 Classification Class A2-s1,d)
- Intumescent Sealant Nullifire FS709. Reaction to fire Class E EN13501-1
- Resistance to fire Classified in accordance with EN 13501-2.

Technical Datasheets and CAD files available
www.pinnaclehvacsolutions.co.uk

25155 mm ² Free Area	5 standard RAL colours
Registered Design	Rectangular ducting kits supplied with female connectors

Single XL ResiBRICK^{A1} Range

Single XL ResiBRICK ^{A1}		Dimensions l x h x d (mm)	Product	Product Codes
ResiBRICK ^{A1} Single XL	ResiBRICK ^{A1} Kit 204x60	215 x 90 x 60 (Airbrick) 600mm duct transition		RB-SINXL-204/600
	ResiBRICK ^{A1} Kit 220x90	215 x 90 x 60 (Airbrick) 600mm duct transition		RB-SINXL-220/600
	ResiBRICK ^{A1} Kit 125mm	215 x 90 x 60 (Airbrick) 600mm duct transition		RB-SINXL-125/600
	ResiBRICK ^{A1} Kit 150mm	215 x 90 x 60 (Airbrick) 600mm duct transition		RB-SINXL-150/600
ResiBRICK ^{A1} Single XL with picture frame	ResiBRICK ^{A1} Kit 204x60	265 x 140 x 60 (Airbrick) 600mm duct transition		RB-SINXLPF-204/600
	ResiBRICK ^{A1} Kit 220x90	265 x 140 x 60 (Airbrick) 600mm duct transition		RB-SINXLPF-220/600
	ResiBRICK ^{A1} Kit 125mm	265 x 140 x 60 (Airbrick) 600mm duct transition		RB-SINXLPF-125/600
	ResiBRICK ^{A1} Kit 150mm	265 x 140 x 60 (Airbrick) 600mm duct transition		RB-SINXLPF-150/600

Note: Airbrick fitted inside duct transition. Overall length 600mm.

Double ResiBRICK^{A1} Range

Double ResiBRICK ^{A1}		Dimensions l x h x d (mm)	Product	Product Codes
ResiBRICK ^{A1} Double	ResiBRICK ^{A1} Kit 204x60	215 x 140 x 60 (Airbrick) 600mm duct transition		RB-DOU-204/600
	ResiBRICK ^{A1} Kit 220x90	215 x 140 x 60 (Airbrick) 600mm duct transition		RB-DOU-220/600
	ResiBRICK ^{A1} Kit 150mm	215 x 140 x 60 (Airbrick) 600mm duct transition		RB-DOU-150/600
	ResiBRICK ^{A1} Kit 180mm	215 x 140 x 60 (Airbrick) 600mm duct transition		RB-DOU-180/600
ResiBRICK ^{A1} Double with picture frame	ResiBRICK ^{A1} Kit 204x60	265 x 190 x 60 (Airbrick) 600mm duct transition		RB-DOUPF-204/600
	ResiBRICK ^{A1} Kit 220x90	265 x 190 x 60 (Airbrick) 600mm duct transition		RB-DOUPF-220/600
	ResiBRICK ^{A1} Kit 150mm	265 x 190 x 60 (Airbrick) 600mm duct transition		RB-DOUPF-150/600
	ResiBRICK ^{A1} Kit 180mm	265 x 190 x 60 (Airbrick) 600mm duct transition		RB-DOUPF-180/600

Note: Airbrick fitted inside duct transition. Overall length 600mm.

ResiBRICK^{A1} Triple

Fire Rated Airbrick and Ducting Kits



- Designed to be built into external wall types during construction in accordance with Approved Document B (fire safety)
- Triple airbrick with and without picture frame design
- ResiBRICK^{A1} duct transition kits with 600mm duct and varying connections
- Unique mechanical fixing for added strength and security
- Female connectors included for easy transition to internal duct (rectangular)
- Compatible with rigid PVC and metal ducting - ideal for use with ResiDUCT™
- Optional lengths and bespoke grille sizes available on request

Manufacturing:

- Class A1: 0.9mm hot dipped galvanised steel considered a non-combustible material (Class A1 without testing) in accordance with European Commission paper 96/603/EC (referenced in BS EN 13501w+ A1:2018).
- RAL powder coating finish – EN13501-1 Classification Class A2-s1,d)
- Intumescent Sealant Nullifire FS709. Reaction to fire Class E EN13501-1
- Resistance to fire Classified in accordance with EN 13501-2.

Technical Datasheets and CAD files available
www.pinnaclehvacsolutions.co.uk

42570 mm ² Free Area	5 standard RAL colours
Registered Design	Rectangular ducting kits supplied with female connectors

ResiBRICK^{A1} Quad

Fire Rated Airbrick and Ducting Kits



- Designed to be built into external wall types during construction in accordance with Approved Document B (fire safety)
- Quad airbrick with and without picture frame design
- ResiBRICK^{A1} duct transition kits with 600mm duct and varying connections
- Unique mechanical fixing for added strength and security
- Female connectors included for easy transition to internal duct (rectangular)
- Compatible with rigid PVC and metal ducting - ideal for use with ResiDUCT™
- Optional lengths and bespoke grille sizes available on request

Manufacturing:

- Class A1: 0.9mm hot dipped galvanised steel considered a non-combustible material (Class A1 without testing) in accordance with European Commission paper 96/603/EC (referenced in BS EN 13501w+ A1:2018).
- RAL powder coating finish – EN13501-1 Classification Class A2-s1,d)
- Intumescent Sealant Nullifire FS709. Reaction to fire Class E EN13501-1
- Resistance to fire Classified in accordance with EN 13501-2.

Technical Datasheets and CAD files available
www.pinnaclehvacsolutions.co.uk

58050 mm ² Free Area	5 standard RAL colours
Registered Design	Rectangular ducting kits supplied with female connectors

Triple ResiBRICK^{A1} Range

Triple ResiBRICK ^{A1}		Dimensions l x h x d (mm)	Product	Product Codes
ResiBRICK ^{A1} Triple	ResiBRICK ^{A1} Kit 300x100	215 x 215 x 60 (Airbrick) 600mm duct transition		RB-TRI-300100/600
	ResiBRICK ^{A1} Kit 300x125	215 x 215 x 60 (Airbrick) 600mm duct transition		RB-TRI-300125/600
	ResiBRICK ^{A1} Kit 180mm	215 x 215 x 60 (Airbrick) 600mm duct transition		RB-TRI-180/600
	ResiBRICK ^{A1} Kit 200mm	215 x 215 x 60 (Airbrick) 600mm duct transition		RB-TRI-200/600
ResiBRICK ^{A1} Triple with picture frame	ResiBRICK ^{A1} Kit 300x100	265 x 265 x 60 (Airbrick) 600mm duct transition		RB-TRIPF-300100/600
	ResiBRICK ^{A1} Kit 300x125	265 x 265 x 60 (Airbrick) 600mm duct transition		RB-TRIPF-300125/600
	ResiBRICK ^{A1} Kit 180mm	265 x 265 x 60 (Airbrick) 600mm duct transition		RB-TRIPF-180/600
	ResiBRICK ^{A1} Kit 200mm	265 x 265 x 60 (Airbrick) 600mm duct transition		RB-TRIPF-200/600

Note: Airbrick fitted inside duct transition. Overall length 600mm.

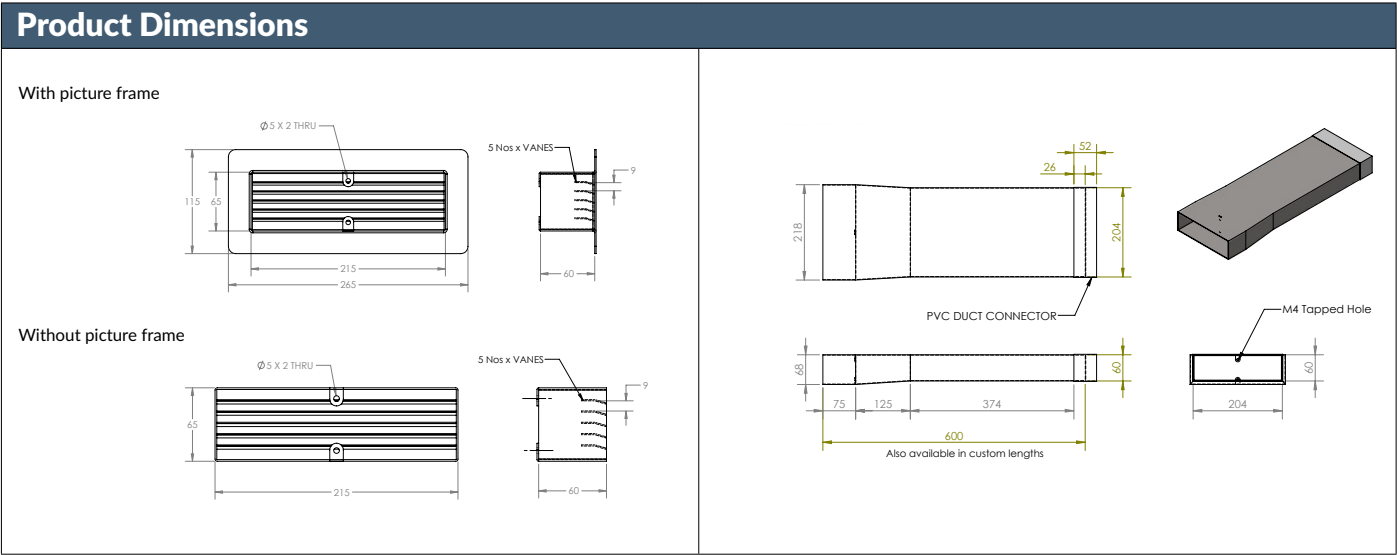
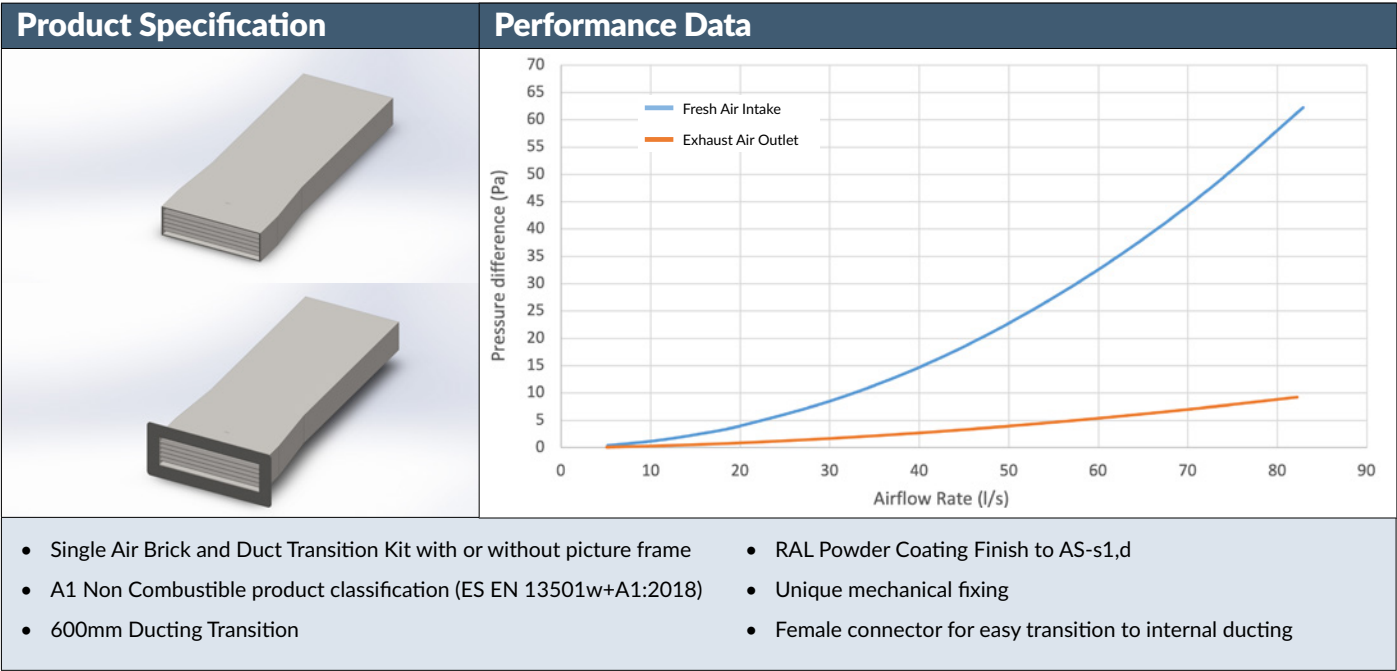
Quad ResiBRICK^{A1} Range

Quad ResiBRICK ^{A1}		Dimensions l x h x d (mm)	Product	Product Codes
ResiBRICK ^{A1} Quad	ResiBRICK ^{A1} Kit 400x100	215 x 290 x 60 (Airbrick) 600mm duct transition		RB-QUA-400100/600
	ResiBRICK ^{A1} Kit 400x125	215 x 290 x 60 (Airbrick) 600mm duct transition		RB-QUA-400125/600
	ResiBRICK ^{A1} Kit 200mm	215 x 290 x 60 (Airbrick) 600mm duct transition		RB-QUA-200/600
	ResiBRICK ^{A1} Kit 250mm	215 x 290 x 60 (Airbrick) 600mm duct transition		RB-QUA-250/600
ResiBRICK ^{A1} Quad with picture frame	ResiBRICK ^{A1} Kit 400x100	265 x 340 x 60 (Airbrick) 600mm duct transition		RB-QUAPF-400100/600
	ResiBRICK ^{A1} Kit 400x125	265 x 340 x 60 (Airbrick) 600mm duct transition		RB-QUAPF-400125/600
	ResiBRICK ^{A1} Kit 200mm	265 x 340 x 60 (Airbrick) 600mm duct transition		RB-QUAPF-200/600
	ResiBRICK ^{A1} Kit 250mm	265 x 340 x 60 (Airbrick) 600mm duct transition		RB-QUAPF-250/600

Note: Airbrick fitted inside duct transition. Overall length 600mm.

TECHNICAL DATA SHEET

ResiBRICK^{A1} A1 Single Kit - 204x60mm

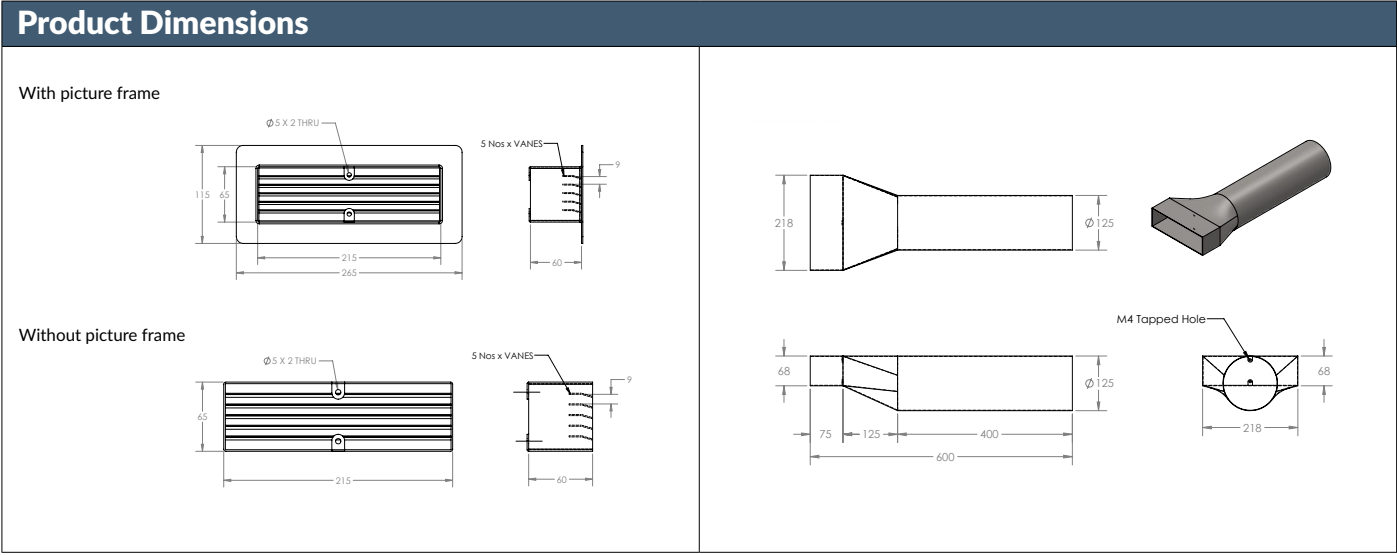
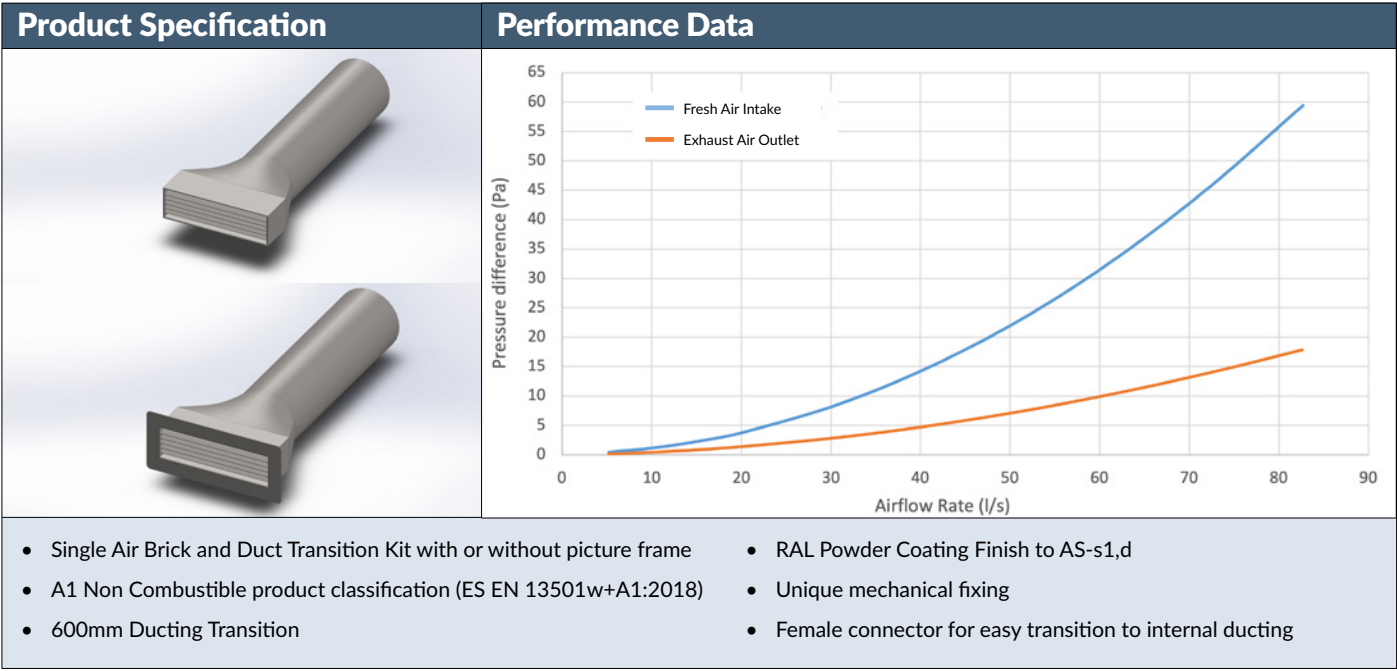


Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Single	ResiBRICK ^{A1} Single Kit 204x60mm	204 x 60mm	A1 and A2-s1,d0	0.64	11,610	RB-SIN-204/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Single	ResiBRICK ^{A1} Single Kit 204x60mm with picture frame	204 x 60mm	A1 and A2-s1,d0	0.7	11,610	RB-SINPF-204/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLL - Black RAL 9010

Downloadable files available at www.pinnaclehvacsolutions.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BRE

TECHNICAL DATA SHEET

ResiBRICK^{A1} Single - 125mm

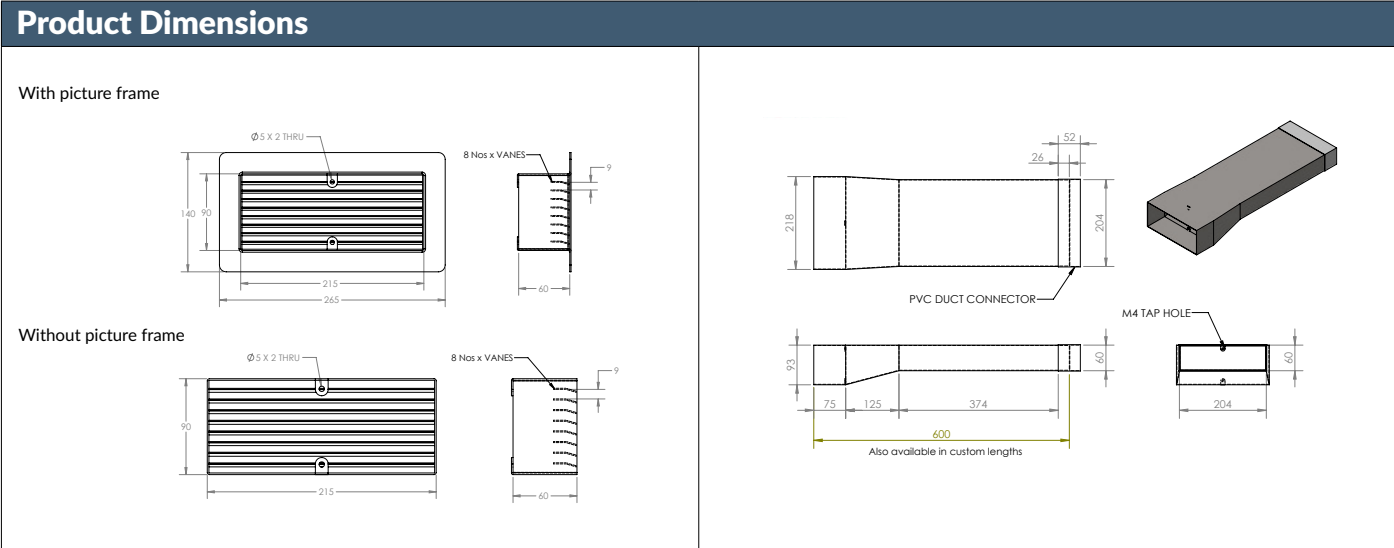
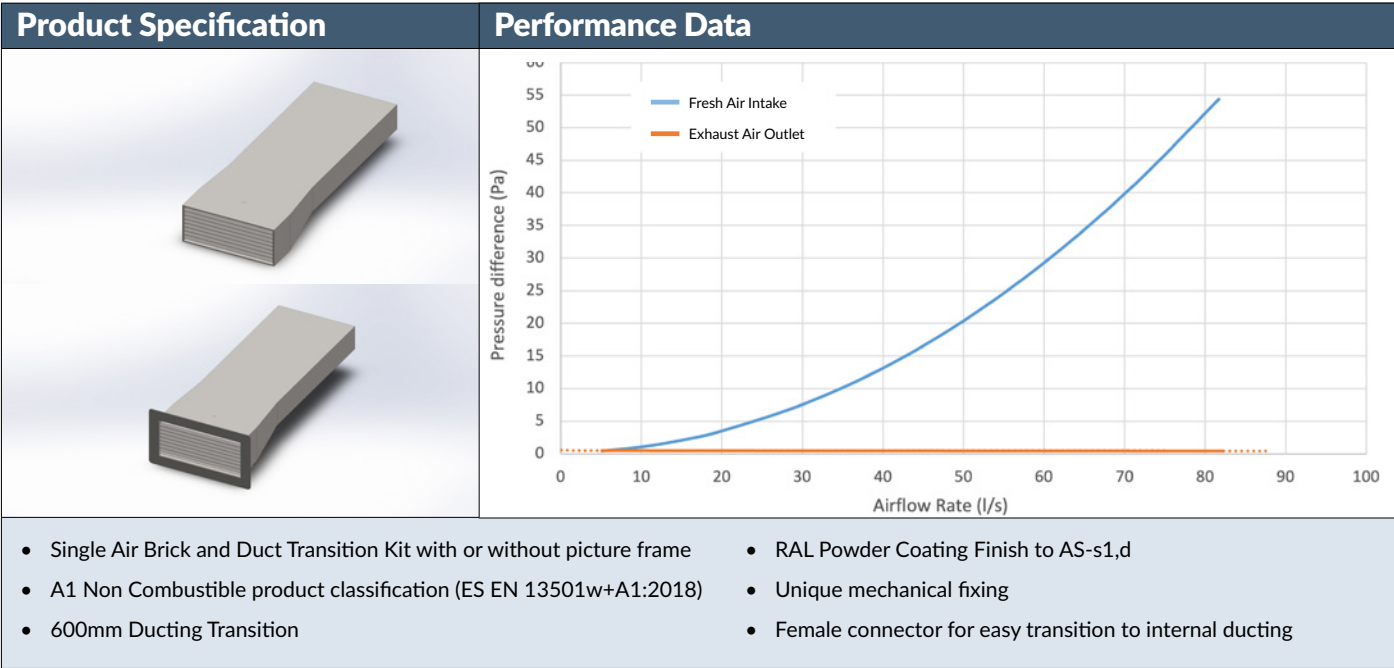


Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Single	ResiBRICK ^{A1} Single Kit 125mm	125mm	A1 and A2-s1,d0	0.64	11,610	RB-SIN-125/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Single	ResiBRICK ^{A1} Single Kit 125mm with picture frame	125mm	A1 and A2-s1,d0	0.7	11,610	RB-SINPF-125/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLL - Black RAL 9010

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TECHNICAL DATA SHEET

ResiBRICK^{A1} Single XL - 204x60



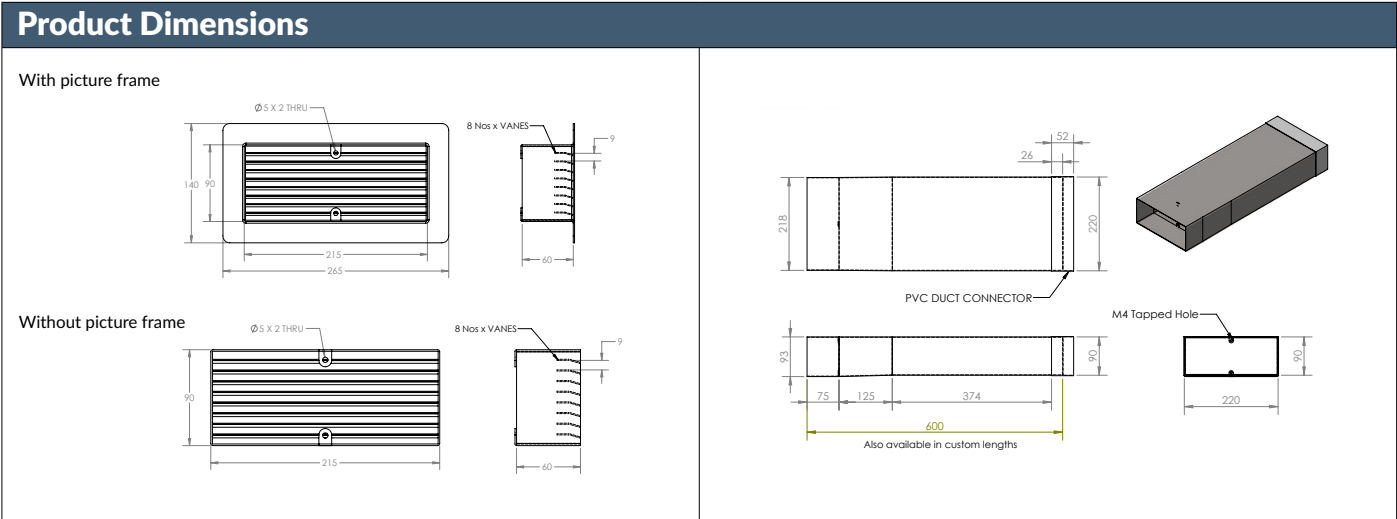
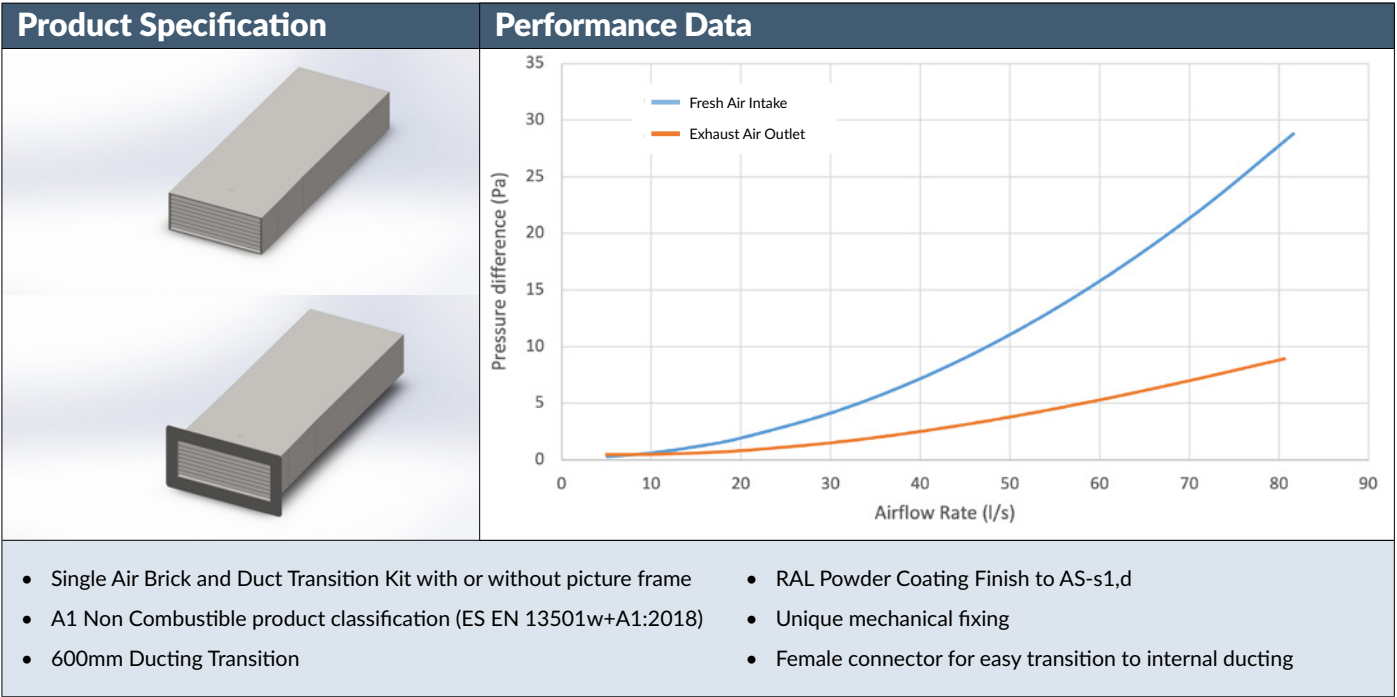
Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Single XL	ResiBRICK ^{A1} Single XL Kit 204x60mm	204x60mm	A1 and A2-s1,d0	0.839	17,415	RB-SINXL-204/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Single XL	ResiBRICK ^{A1} Single XL Kit 204x60mm with picture frame	204x60mm	A1 and A2-s1,d0	0.914	17,415	RB-SINXLPF-204/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLL - Black RAL 9010

Downloadable files available at www.pinnaclehvacsolutions.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice

Performance independently tested by BRE

TECHNICAL DATA SHEET

ResiBRICK^{A1} Single XL - 220x90

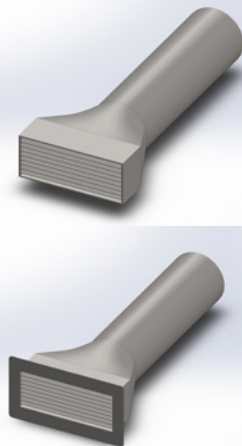
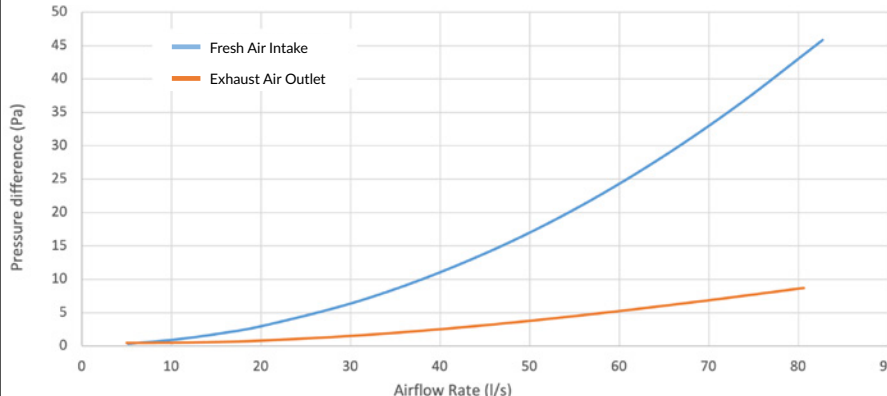


Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Single XL	ResiBRICK ^{A1} Single XL Kit 220x90mm	220x90mm	A1 and A2-s1,d0	0.839	17,415	RB-SINXL-220/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Single XL	ResiBRICK ^{A1} Single XL Kit 220x90mm with picture frame	220x90mm	A1 and A2-s1,d0	0.914	17,415	RB-SINXLPF-220/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLL - Black RAL 9010

Downloadable files available at www.pinnaclehvacsolutions.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice

Performance independently tested by BRE

ResiBRICK^{A1} Single XL - 125mm

Product Specification	Performance Data																																	
	 The graph illustrates the pressure difference across the air duct transition as a function of airflow rate. The x-axis represents the Airflow Rate in liters per second (l/s), ranging from 0 to 90. The y-axis represents the Pressure difference in Pascals (Pa), ranging from 0 to 50. Two data series are plotted: Fresh Air Intake (blue line) and Exhaust Air Outlet (orange line). Both series show a linear increase in pressure difference with increasing airflow rate, with the Fresh Air Intake having a significantly higher pressure drop than the Exhaust Air Outlet. <table><tr><th>Airflow Rate (l/s)</th><th>Fresh Air Intake (Pa)</th><th>Exhaust Air Outlet (Pa)</th></tr><tr><td>0</td><td>0</td><td>0</td></tr><tr><td>10</td><td>2.5</td><td>0.5</td></tr><tr><td>20</td><td>5.0</td><td>1.0</td></tr><tr><td>30</td><td>7.5</td><td>1.5</td></tr><tr><td>40</td><td>10.0</td><td>2.0</td></tr><tr><td>50</td><td>12.5</td><td>2.5</td></tr><tr><td>60</td><td>15.0</td><td>3.0</td></tr><tr><td>70</td><td>17.5</td><td>3.5</td></tr><tr><td>80</td><td>20.0</td><td>4.0</td></tr><tr><td>82</td><td>21.0</td><td>4.2</td></tr></table>	Airflow Rate (l/s)	Fresh Air Intake (Pa)	Exhaust Air Outlet (Pa)	0	0	0	10	2.5	0.5	20	5.0	1.0	30	7.5	1.5	40	10.0	2.0	50	12.5	2.5	60	15.0	3.0	70	17.5	3.5	80	20.0	4.0	82	21.0	4.2
Airflow Rate (l/s)	Fresh Air Intake (Pa)	Exhaust Air Outlet (Pa)																																
0	0	0																																
10	2.5	0.5																																
20	5.0	1.0																																
30	7.5	1.5																																
40	10.0	2.0																																
50	12.5	2.5																																
60	15.0	3.0																																
70	17.5	3.5																																
80	20.0	4.0																																
82	21.0	4.2																																
• Single Air Brick and Duct Transition Kit with or without picture frame • A1 Non Combustible product classification (ES EN 13501w+A1:2018) • 600mm Ducting Transition	• RAL Powder Coating Finish to AS-s1,d • Unique mechanical fixing • Female connector for easy transition to internal ducting																																	

Product Dimensions

With picture frame

Without picture frame

Technical drawing of the product showing dimensions and features:

- Overall width: 265mm
- Overall height: 140mm
- Grille width: 215mm
- Grille height: 90mm
- 8 Nos x VANES
- Ø 5 X 2 THRU
- 60mm
- 9mm

Technical drawing of the product showing dimensions and features:

- Overall width: 215mm
- Overall height: 90mm
- 8 Nos x VANES
- Ø 5 X 2 THRU
- 60mm
- 9mm

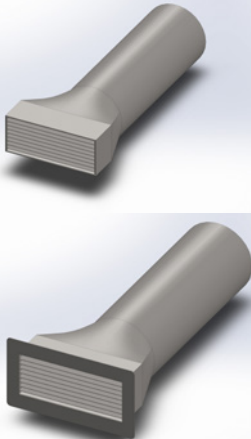
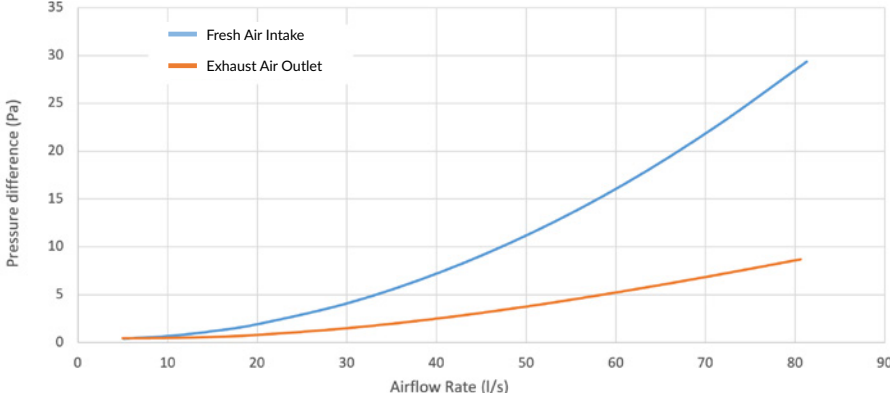
Technical drawing of the product showing dimensions and features:

- Overall width: 218mm
- Overall height: 93mm
- 8 Nos x VANES
- Ø 125mm
- 75mm
- 125mm
- 400mm
- 600mm
- Also available in custom lengths
- M4 Tapped Hole

Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Single XL	ResiBRICK ^{A1} Single XL Kit 125mm	125mm	A1 and A2-s1,d0	0.839	17,415	RB-SINXL-125/600- COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Single XL	ResiBRICK ^{A1} Single XL Kit 125mm with picture frame	125mm	A1 and A2-s1,d0	0.914	17,415	RB-SINXLPF- 125/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLL - Black RAL 9010

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Performance independently tested by BRE

ResiBRICK^{A1} Single XL Kit - 150mm

Product Specification	Performance Data																														
	 <table><caption>Performance Data: Pressure difference vs. Airflow Rate</caption><thead><tr><th>Airflow Rate (l/s)</th><th>Fresh Air Intake (Pa)</th><th>Exhaust Air Outlet (Pa)</th></tr></thead><tbody><tr><td>0</td><td>0</td><td>0</td></tr><tr><td>10</td><td>0.5</td><td>0.2</td></tr><tr><td>20</td><td>2.0</td><td>0.8</td></tr><tr><td>30</td><td>4.5</td><td>1.5</td></tr><tr><td>40</td><td>7.5</td><td>2.5</td></tr><tr><td>50</td><td>11.0</td><td>3.5</td></tr><tr><td>60</td><td>15.5</td><td>4.8</td></tr><tr><td>70</td><td>21.0</td><td>6.2</td></tr><tr><td>80</td><td>27.5</td><td>7.8</td></tr></tbody></table>	Airflow Rate (l/s)	Fresh Air Intake (Pa)	Exhaust Air Outlet (Pa)	0	0	0	10	0.5	0.2	20	2.0	0.8	30	4.5	1.5	40	7.5	2.5	50	11.0	3.5	60	15.5	4.8	70	21.0	6.2	80	27.5	7.8
Airflow Rate (l/s)	Fresh Air Intake (Pa)	Exhaust Air Outlet (Pa)																													
0	0	0																													
10	0.5	0.2																													
20	2.0	0.8																													
30	4.5	1.5																													
40	7.5	2.5																													
50	11.0	3.5																													
60	15.5	4.8																													
70	21.0	6.2																													
80	27.5	7.8																													
• Single Air Brick and Duct Transition Kit with or without picture frame • A1 Non Combustible product classification (ES EN 13501w+A1:2018) • 600mm Ducting Transition	• RAL Powder Coating Finish to AS-s1,d • Unique mechanical fixing • Female connector for easy transition to internal ducting																														

Product Dimensions

With picture frame

Ø 5 x 2 THRU

140 90

215 265

8 Nos x VANES

60 9

Without picture frame

Ø 5 x 2 THRU

90

215

8 Nos x VANES

60 9

300mm diameter model

218 218

93

218

600 93

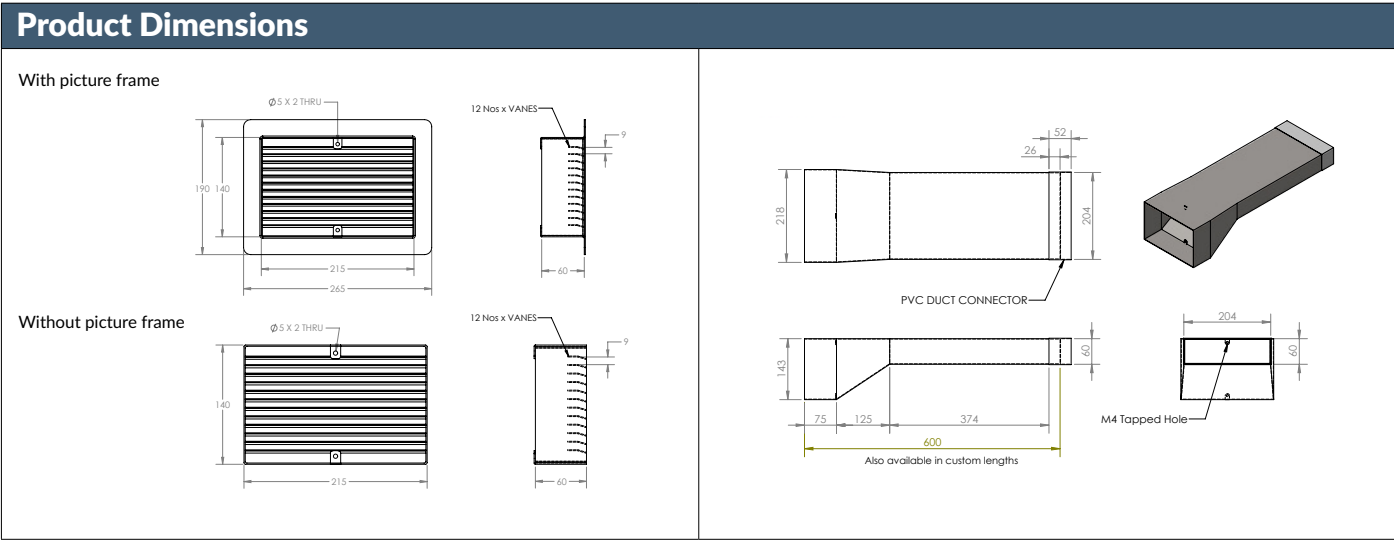
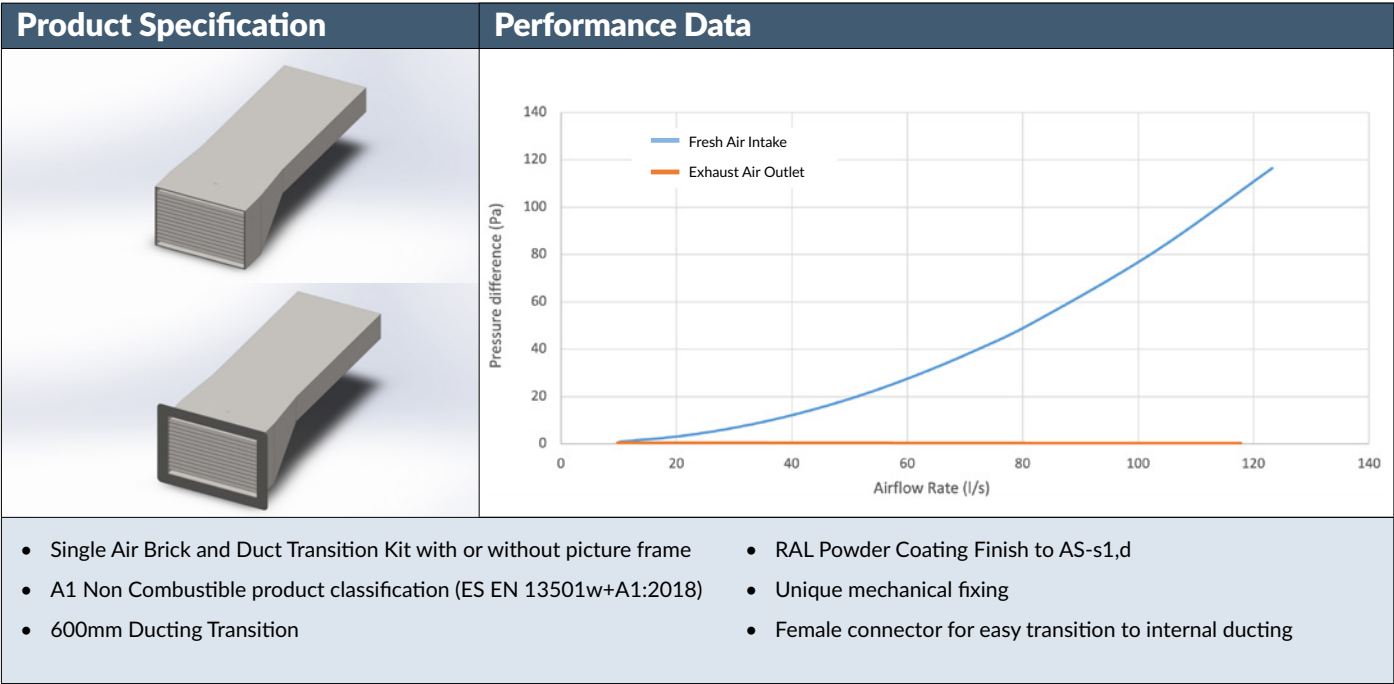
M4 Tapped Hole

Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Single XL	ResiBRICK ^{A1} Single XL Kit 150mm	150mm	A1 and A2-s1,d0	0.839	17,415	RB-SINXL-150/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Single XL	ResiBRICK ^{A1} Single XL Kit 150mm with picture frame	150mm	A1 and A2-s1,d0	0.914	17,415	RB-SINXLPF-150/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLL - Black RAL 9010

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TECHNICAL DATA SHEET

ResiBRICK^{A1} Double Kit - 204x60mm

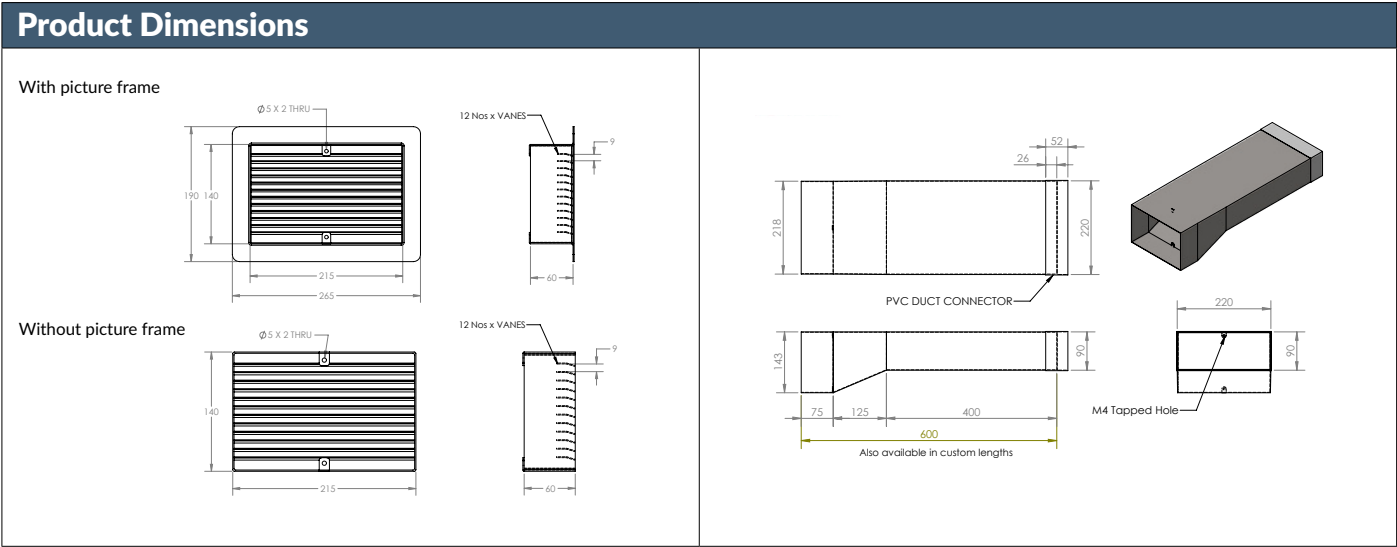
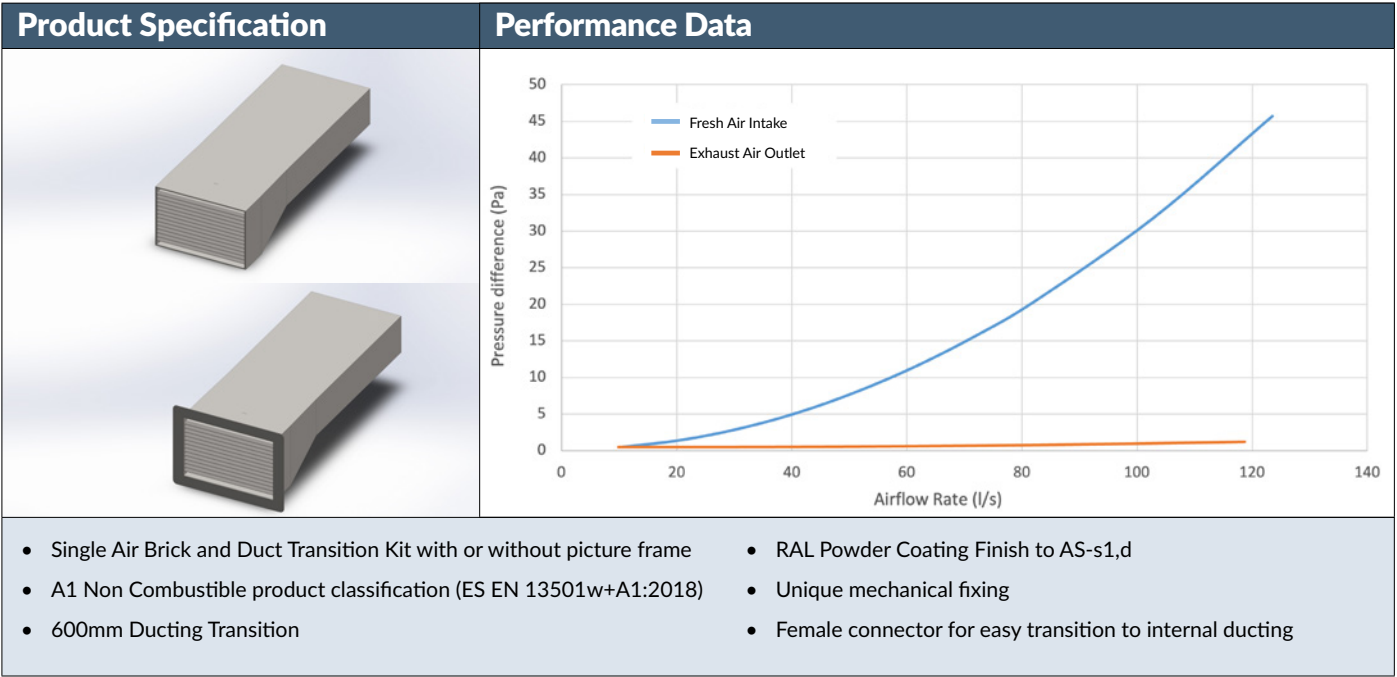


Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Double	ResiBRICK ^{A1} Double Kit 204x60mm	204x60mm	A1 and A2-s1,d0	1.2	25,155	RB-DOU-204/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Double	ResiBRICK ^{A1} Double Kit 204x60mm with picture frame	204x60mm	A1 and A2-s1,d0	1.38	25,155	RB-DOUPF-204/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLL - Black RAL 9010

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ResiBRICK^{A1} Double Kit - 220x90mm

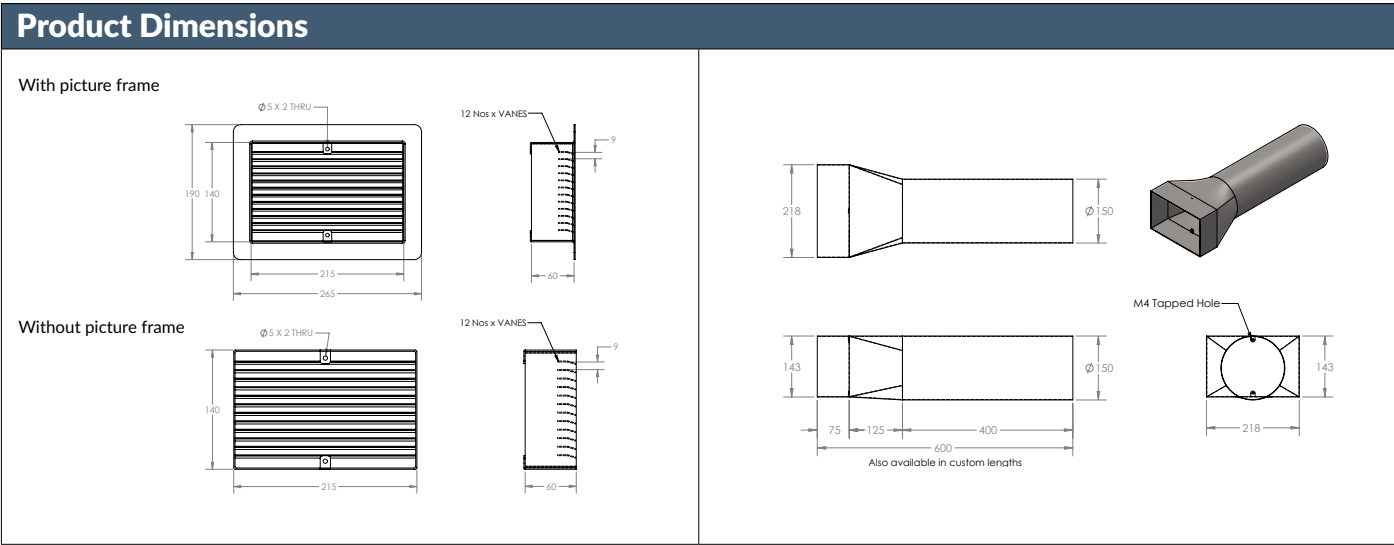
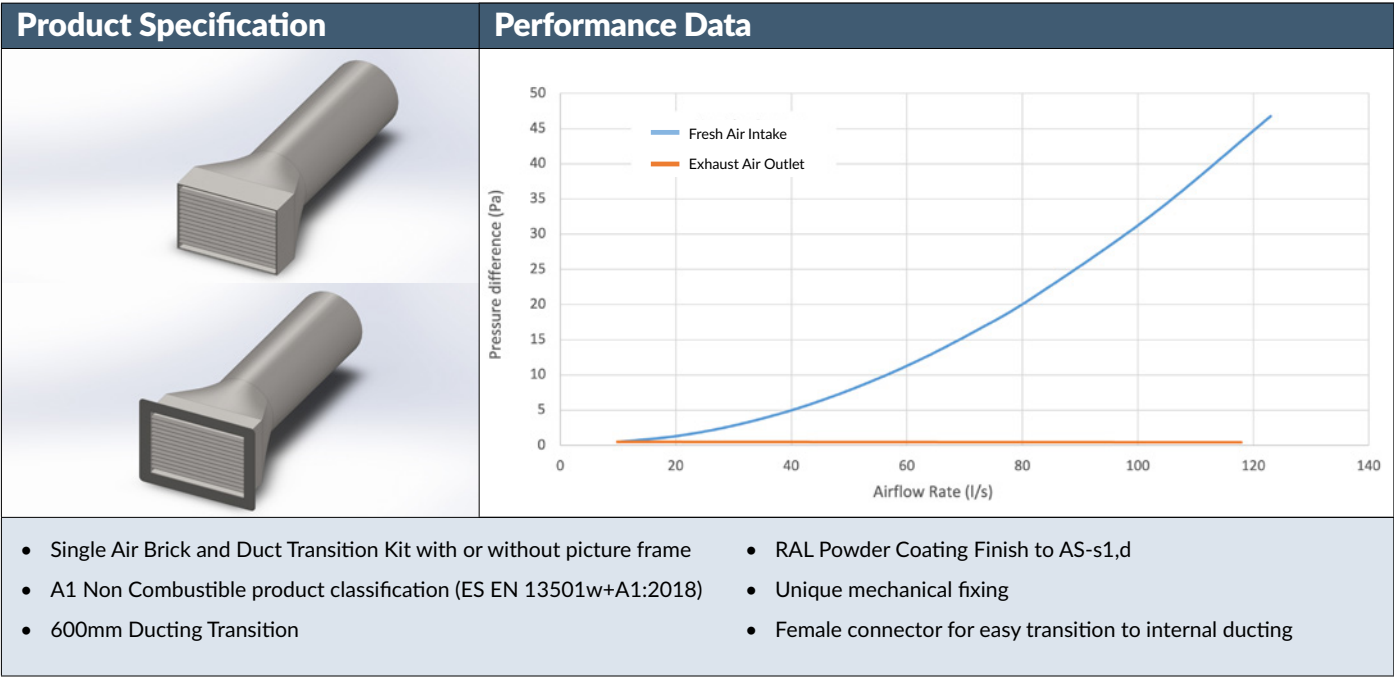


Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Double	ResiBRICK ^{A1} Double Kit 220x90mm	220x90mm	A1 and A2-s1,d0	1.2	25,155	RB-DOU-220/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Double	ResiBRICK ^{A1} Double Kit 220x90mm with picture frame	220x90mm	A1 and A2-s1,d0	1.38	25,155	RB-DOUPF-220/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLL - Black RAL 9010

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ResiBRICK^{A1} Double Kit - 150mm

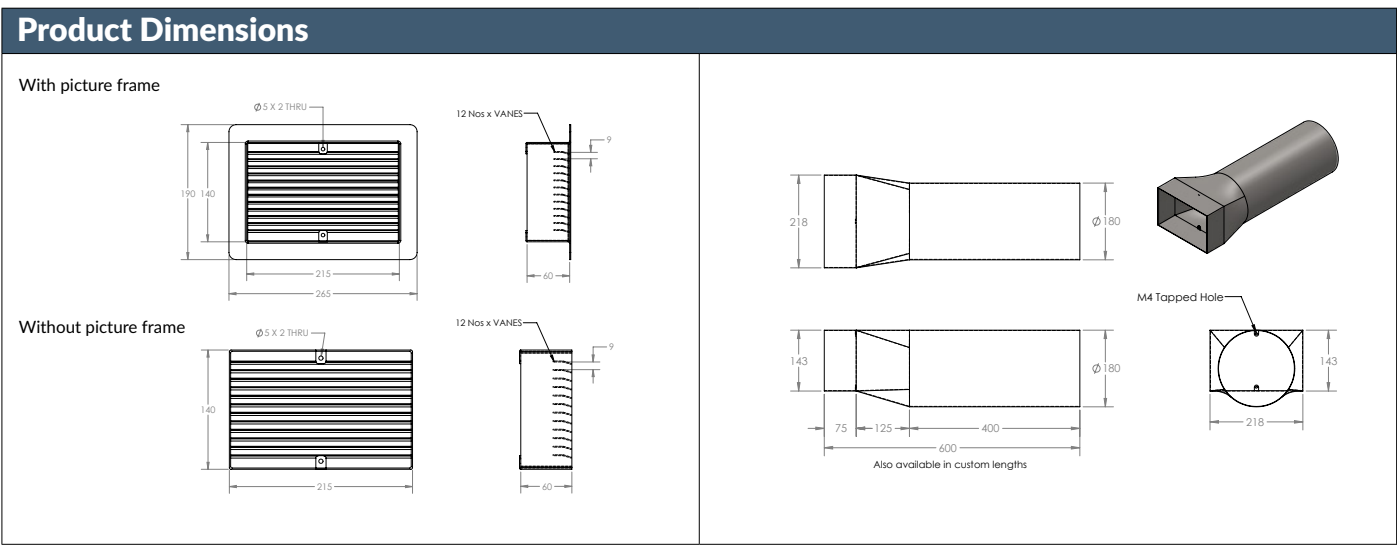
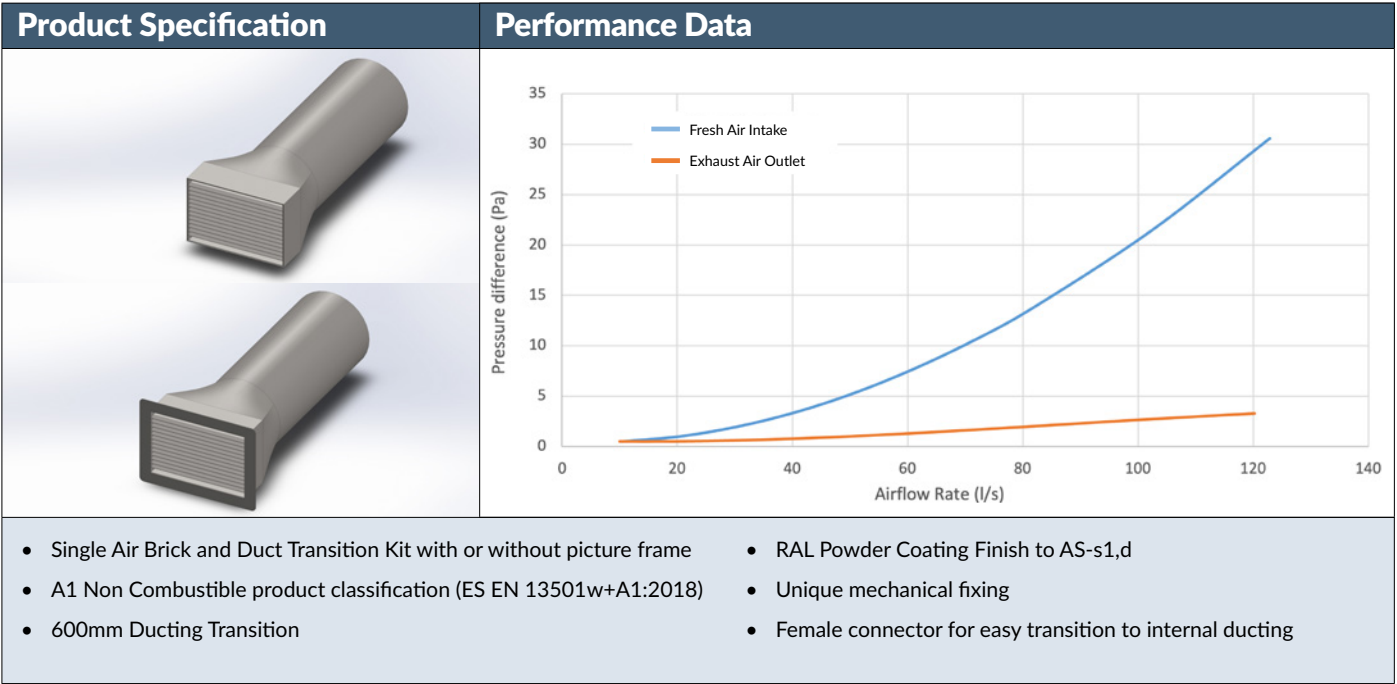


Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm ²	Part Code	Colour Options
ResiBRICK ^{A1} Double	ResiBRICK ^{A1} Double Kit 150mm	150mm	A1 and A2-s1,d0	1.2	25,155	RB-DOU-150/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Double	ResiBRICK ^{A1} Double Kit 150mm with picture frame	150mm	A1 and A2-s1,d0	1.38	25,155	RB-DOUPF-150/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLL - Black RAL 9010

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ResiBRICK^{A1} Double Kit - 180mm

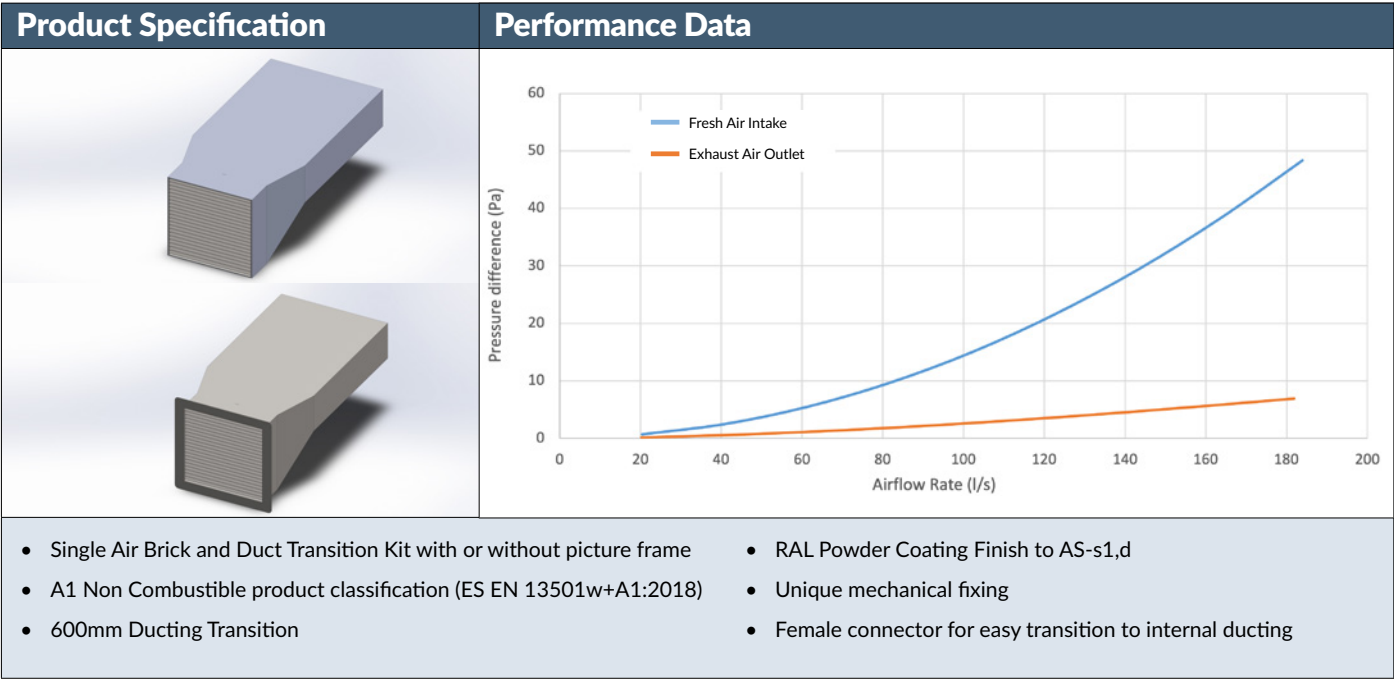


Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm ²	Part Code	Colour Options
ResiBRICK ^{A1} Double	ResiBRICK ^{A1} Double Kit 180mm	180mm	A1 and A2-s1,d0	1.2	25,155	RB-DOU-180/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Double	ResiBRICK ^{A1} Double Kit 180mm with picture frame	180mm	A1 and A2-s1,d0	1.38	25,155	RB-DOUPF-180/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLL - Black RAL 9010

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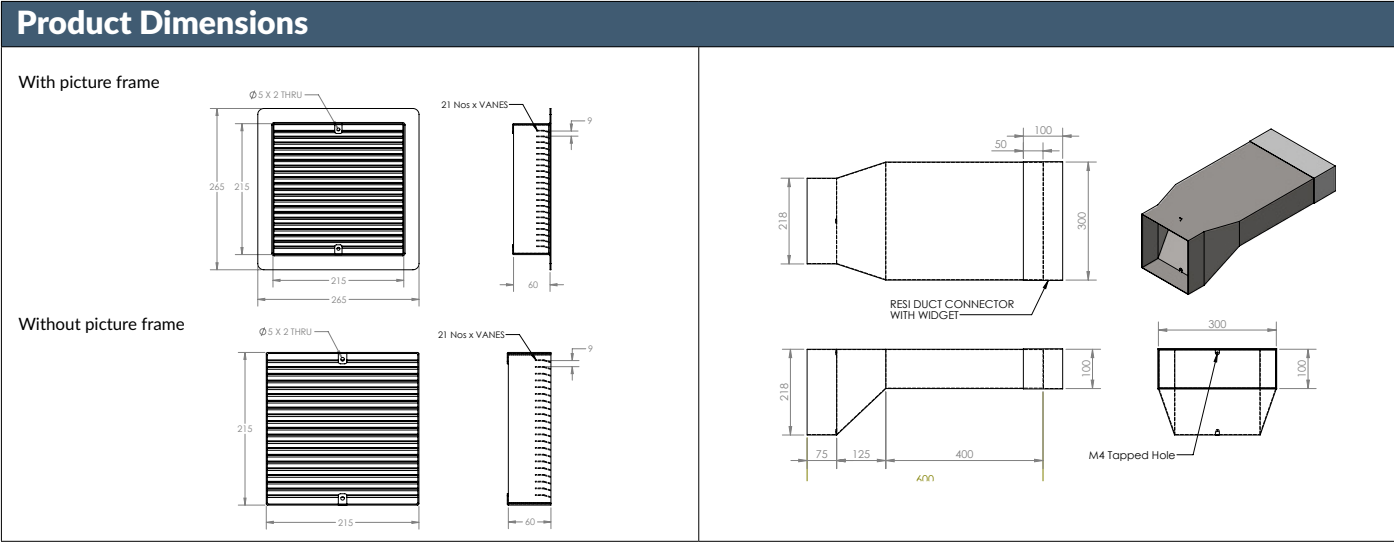
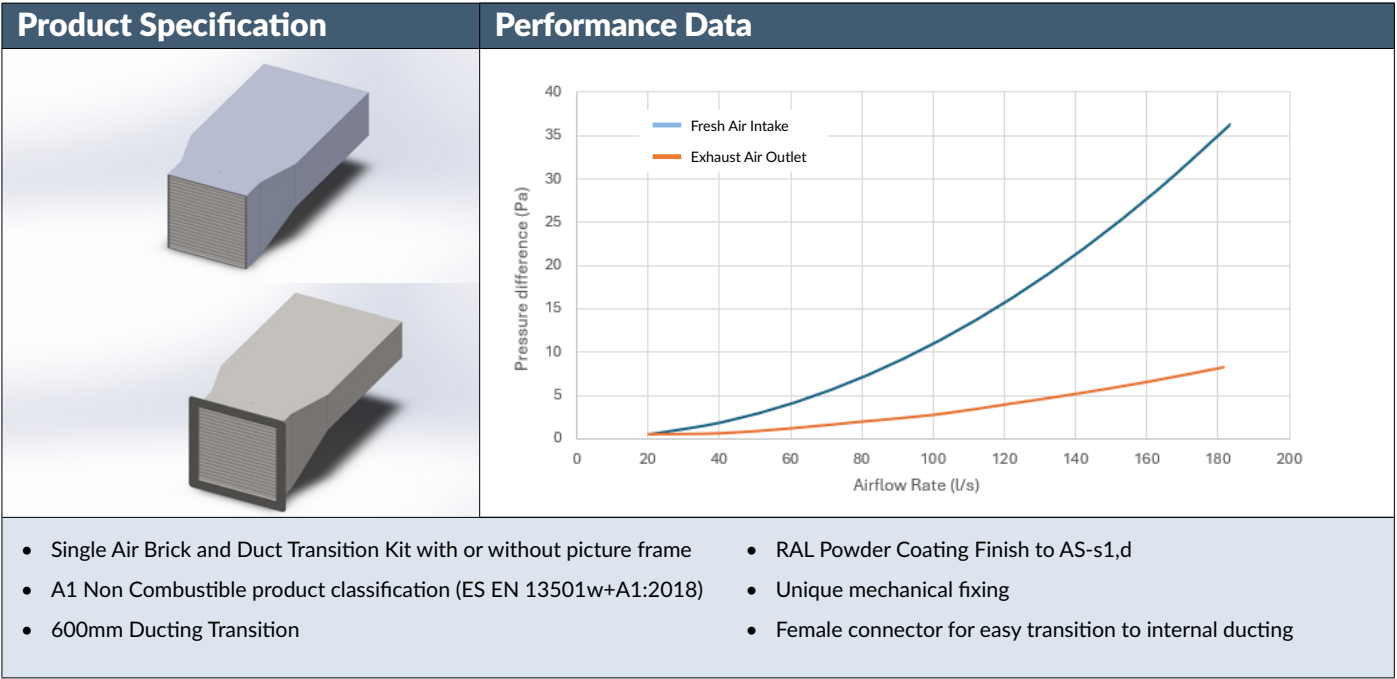
TECHNICAL DATA SHEET

ResiBRICK^{A1} Triple Kit - 300x100mm



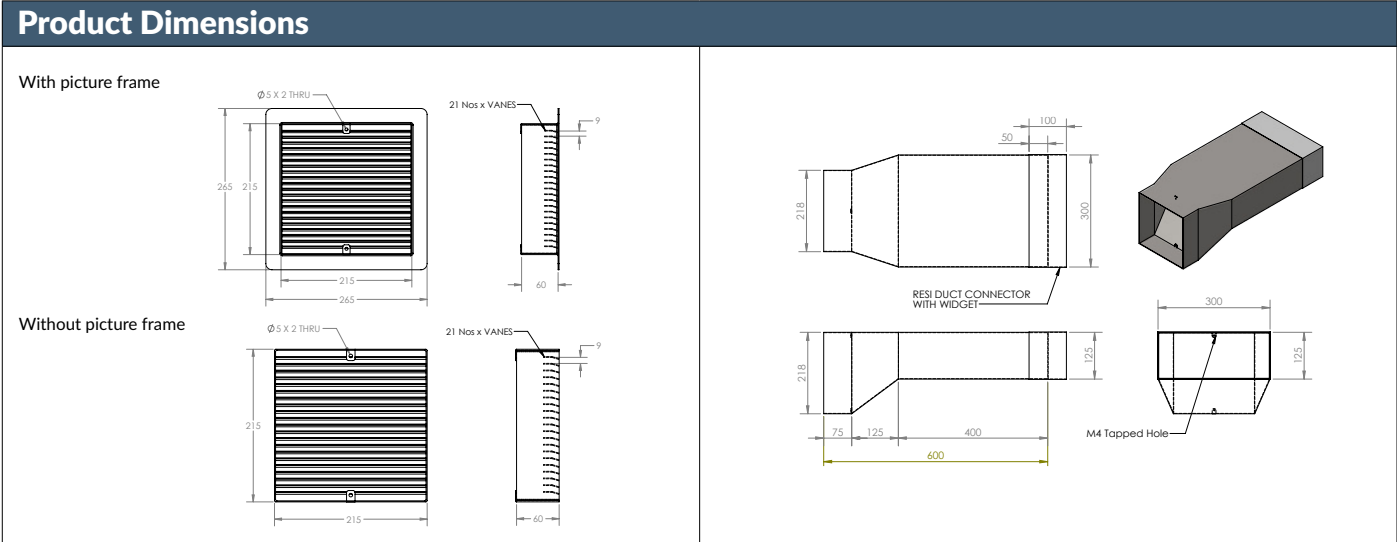
TECHNICAL DATA SHEET

ResiBRICK^{A1} Triple Kit - 300x125mm



Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Triple	ResiBRICK ^{A1} Triple 300x100mm	300x100mm	A1 and A2-s1,d0	2	42,570	RB-TRI-300100/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Triple	ResiBRICK ^{A1} Triple 300x100mm with picture frame	300x100mm	A1 and A2-s1,d0	2.2	42,570	RB-TRIPF-300100/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLK - Black RAL 9010

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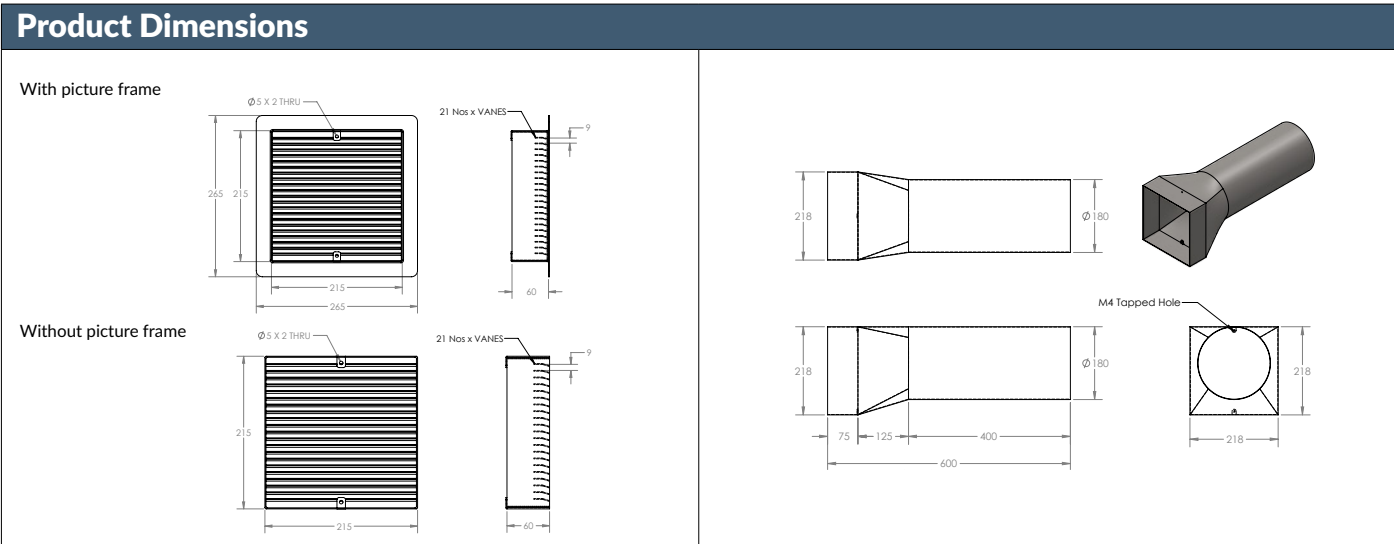
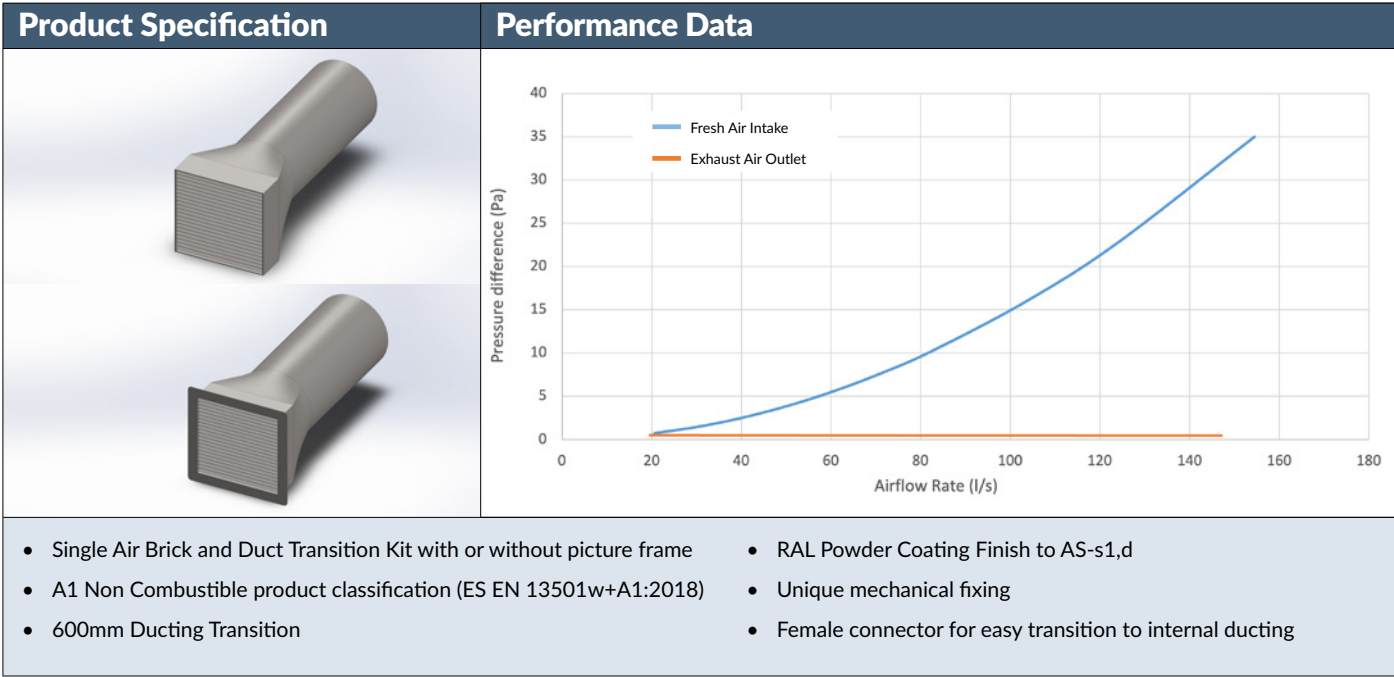


Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Triple	ResiBRICK ^{A1} Triple 300x125mm	300x125mm	A1 and A2-s1,d0	2	42,570	RB-TRI-300125/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Triple	ResiBRICK ^{A1} Triple 300x125mm with picture frame	300x125mm	A1 and A2-s1,d0	2.2	42,570	RB-TRIPF-300125/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLK - Black RAL 9010

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TECHNICAL DATA SHEET

ResiBRICK^{A1} Triple Kit - 180mm



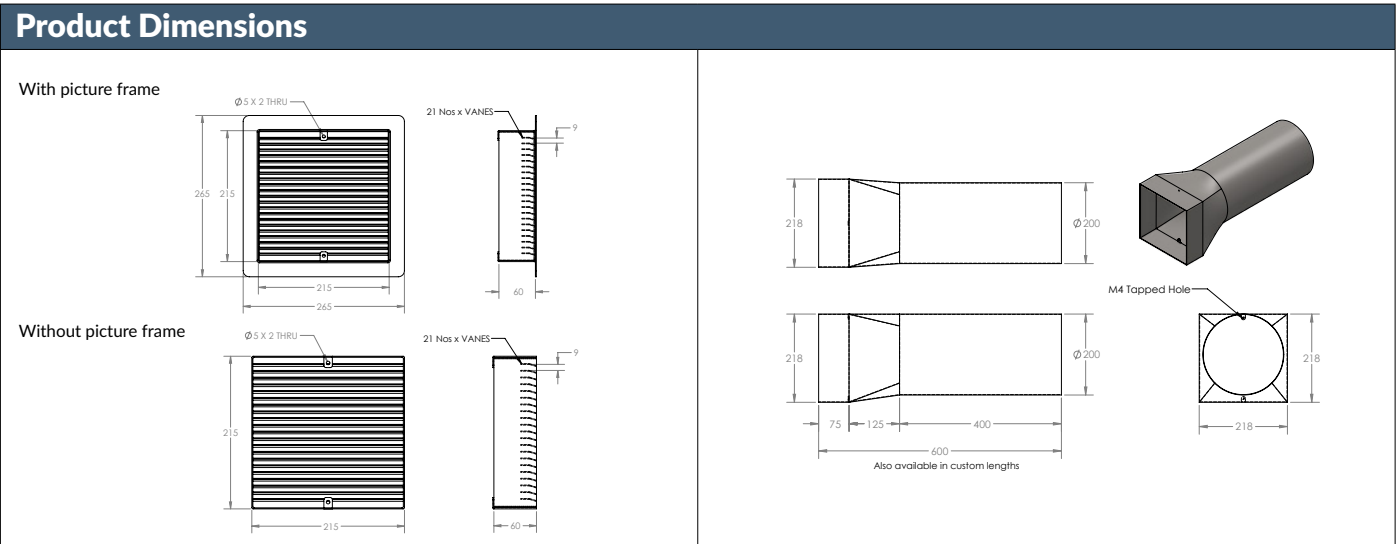
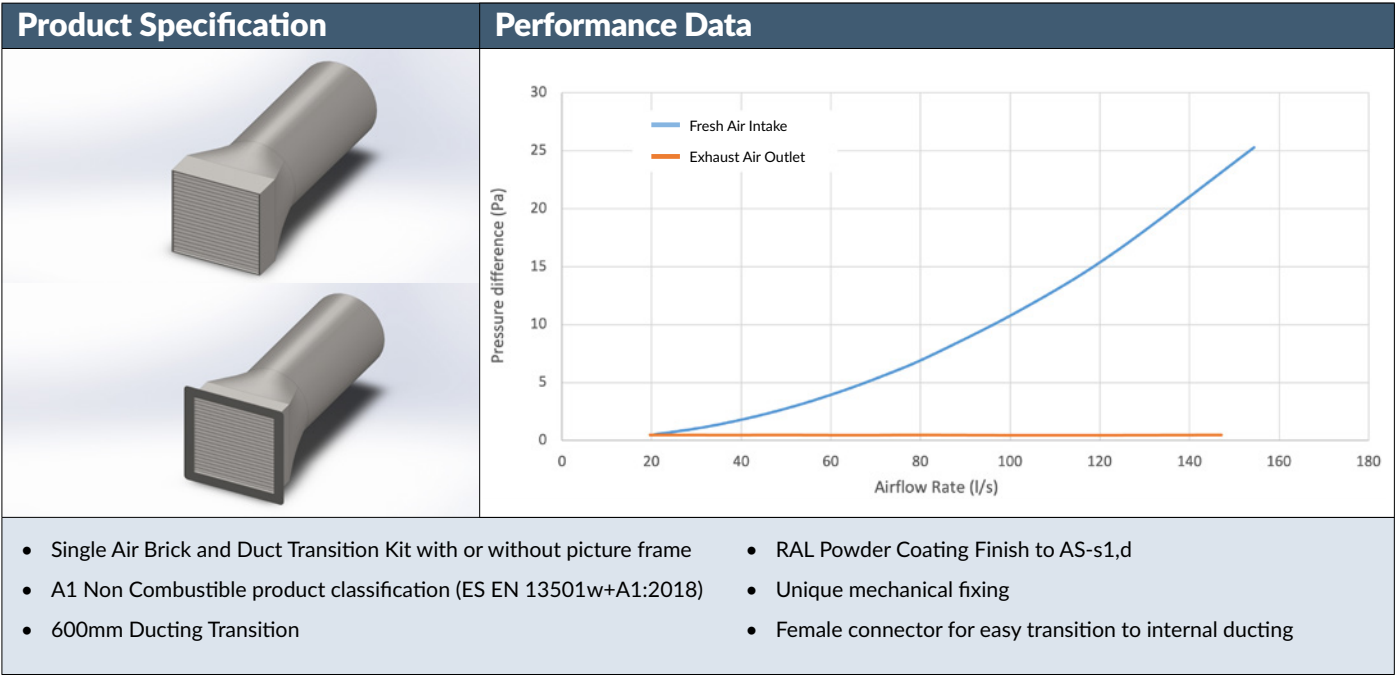
Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Triple	ResiBRICK ^{A1} Triple Kit 180mm	180mm	A1 and A2-s1,d0	2	42,570	RB-TRI-180/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Triple	ResiBRICK ^{A1} Triple Kit 180mm with picture frame	180mm	A1 and A2-s1,d0	2.2	42,570	RB-TRIPF-180/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLK - Black RAL 9010

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TECHNICAL DATA SHEET

ResiBRICK^{A1} Triple Kit - 200mm



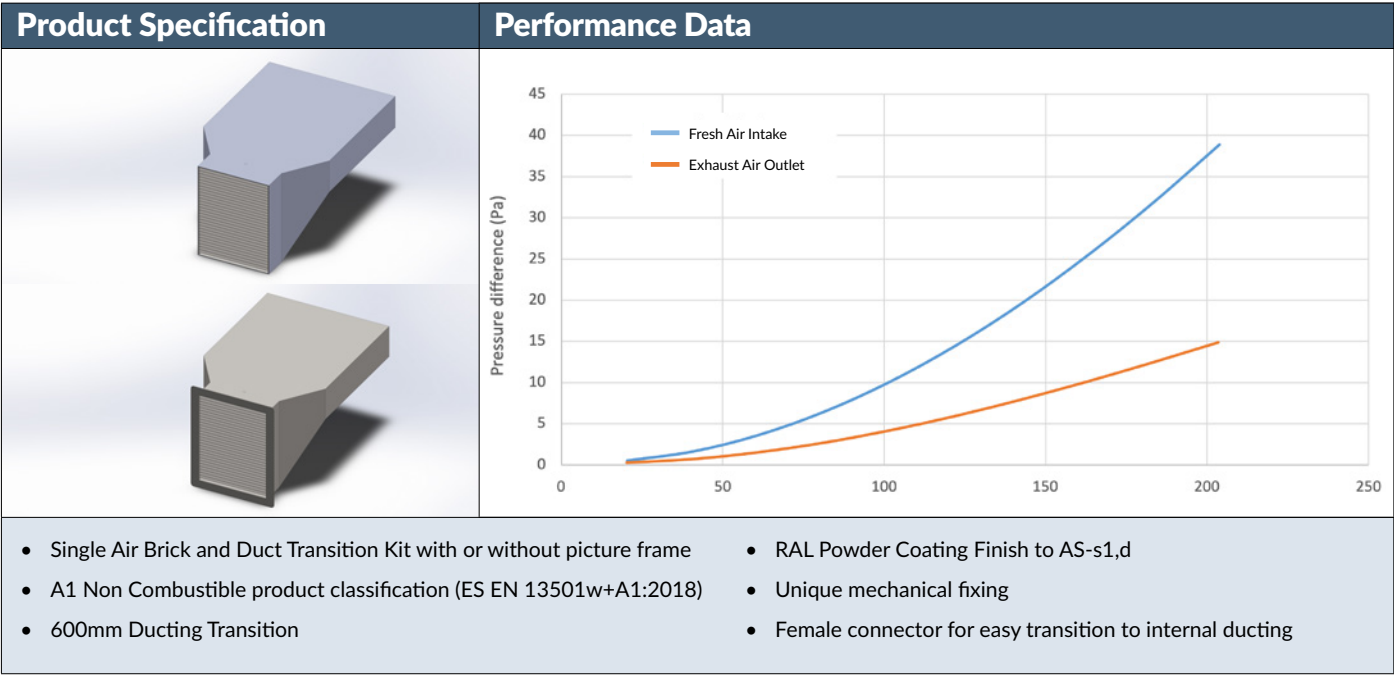
Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Triple	ResiBRICK ^{A1} Triple 200mm	200mm	A1 and A2-s1,d0	2	42,570	RB-TRI-200/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Triple	ResiBRICK ^{A1} Triple 200mm with picture frame	200mm	A1 and A2-s1,d0	2.2	42,570	RB-TRIPF-200/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLK - Black RAL 9010

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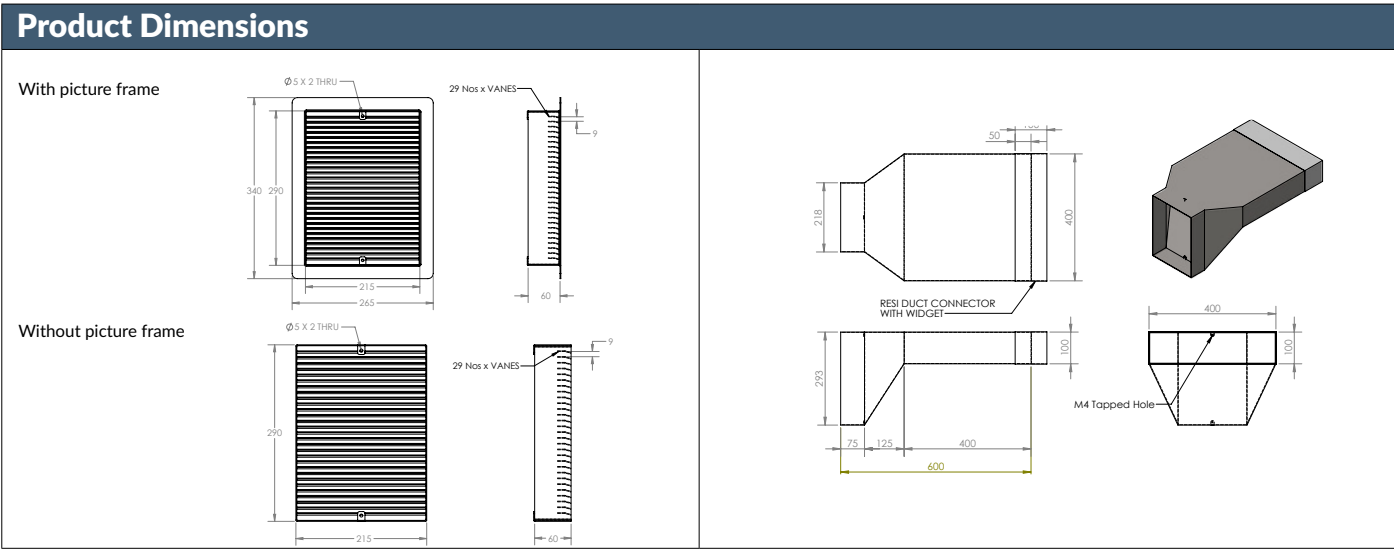
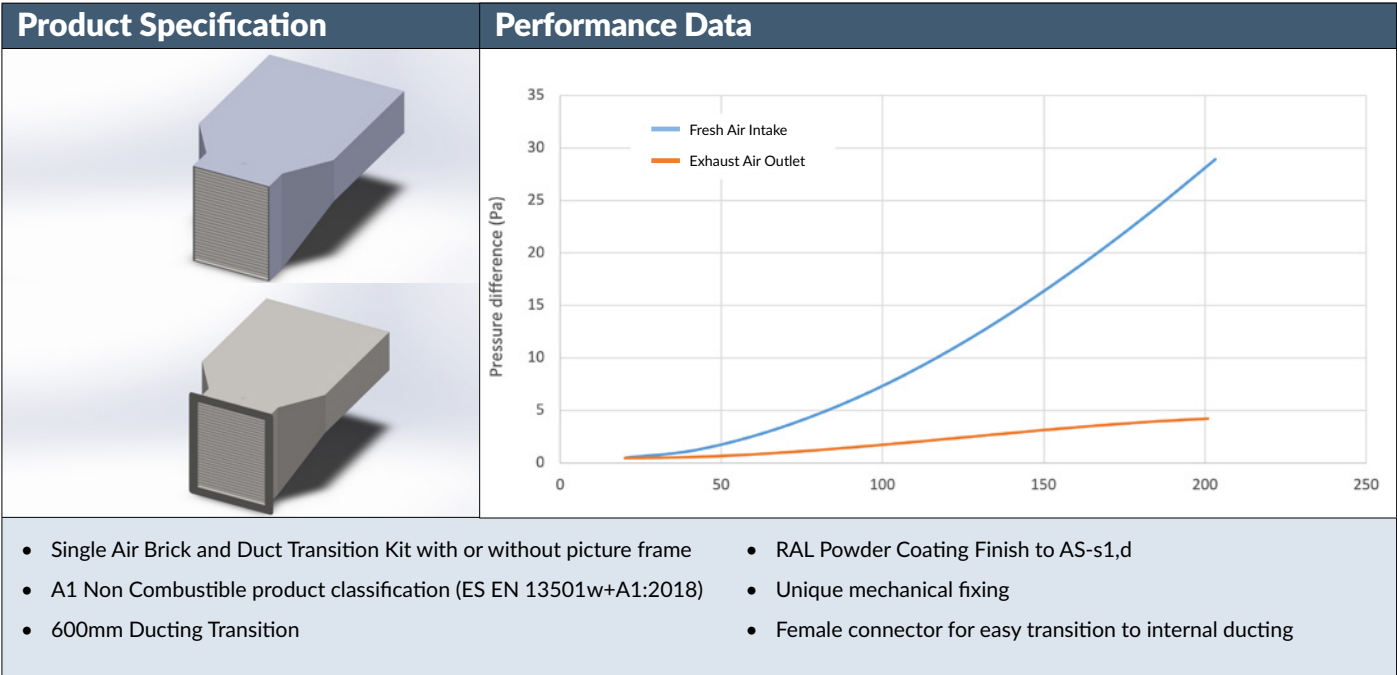
TECHNICAL DATA SHEET

ResiBRICK^{A1} Quad Kit - 400x100mm



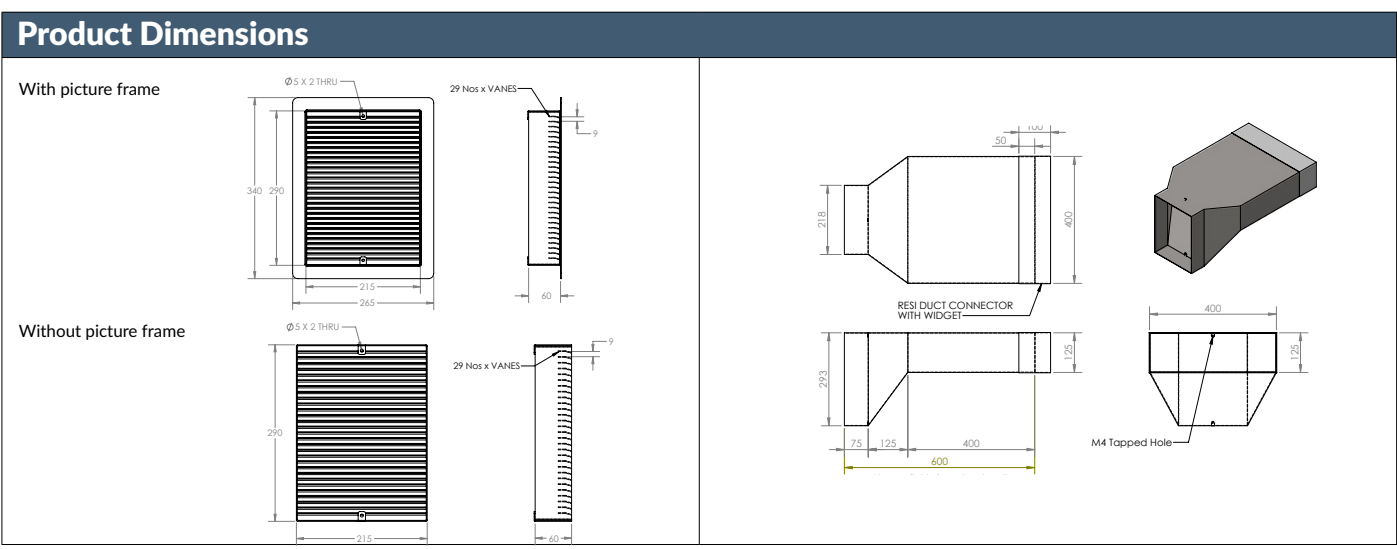
TECHNICAL DATA SHEET

ResiBRICK^{A1} Quad Kit - 400x125mm



Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Quad	ResiBRICK ^{A1} Quad Kit 400x100mm	400x100mm	A1 and A2-s1,d0	2.5	58,050	RB-QUA-400100/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Quad	ResiBRICK ^{A1} Quad Kit 400x100mm with picture frame	400x100mm	A1 and A2-s1,d0	2.7	58,050	RB-QUAPF-400100/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLK - Black RAL 9010

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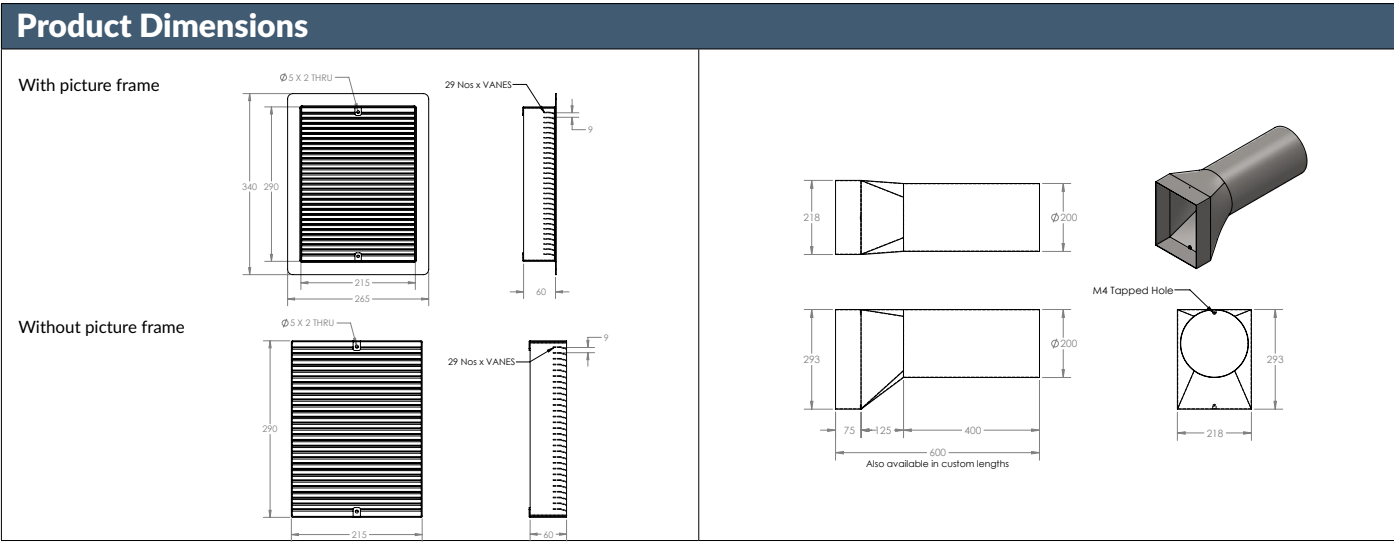
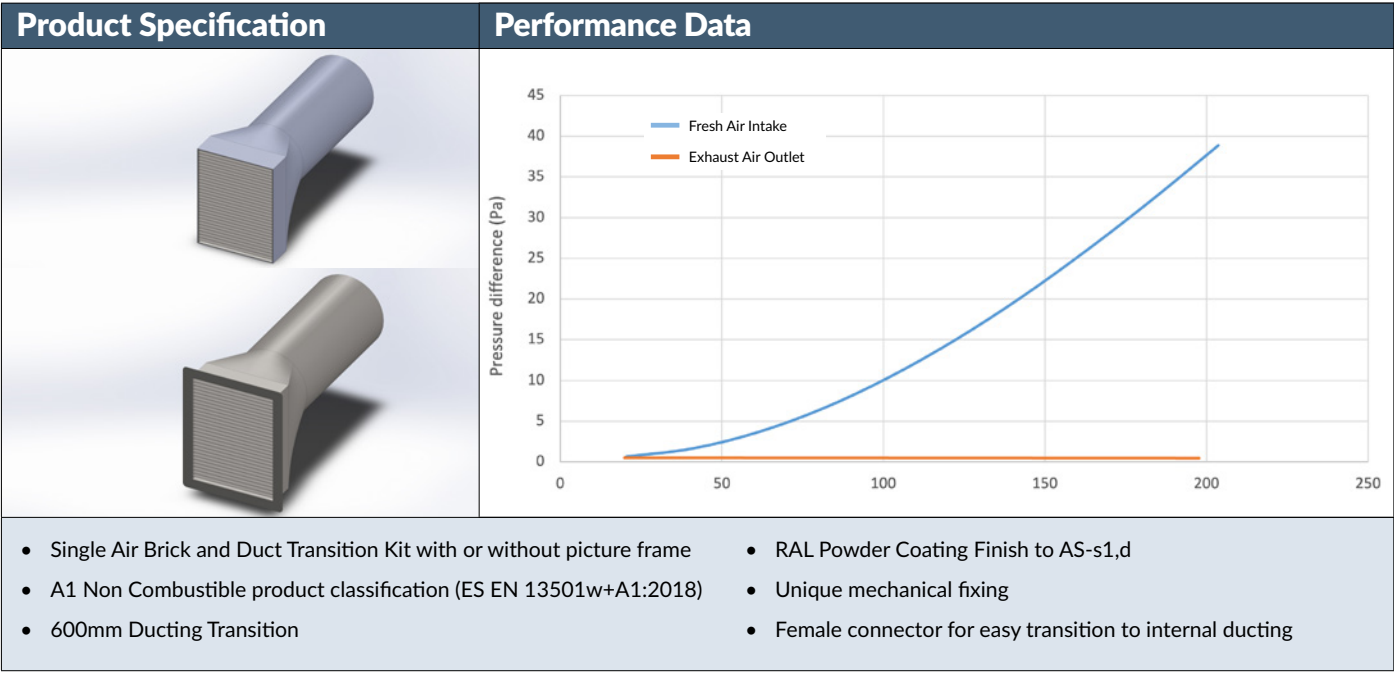


Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Quad	ResiBRICK ^{A1} Quad Kit 400x125mm	400x125mm	A1 and A2-s1,d0	2.5	58,050	RB-QUA-400125/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Quad	ResiBRICK ^{A1} Quad Kit 400x125mm with picture frame	400x125mm	A1 and A2-s1,d0	2.7	58,050	RB-QUAPF-400125/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLK - Black RAL 9010

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ResiBRICK^{A1} Quad Kit - 200mm

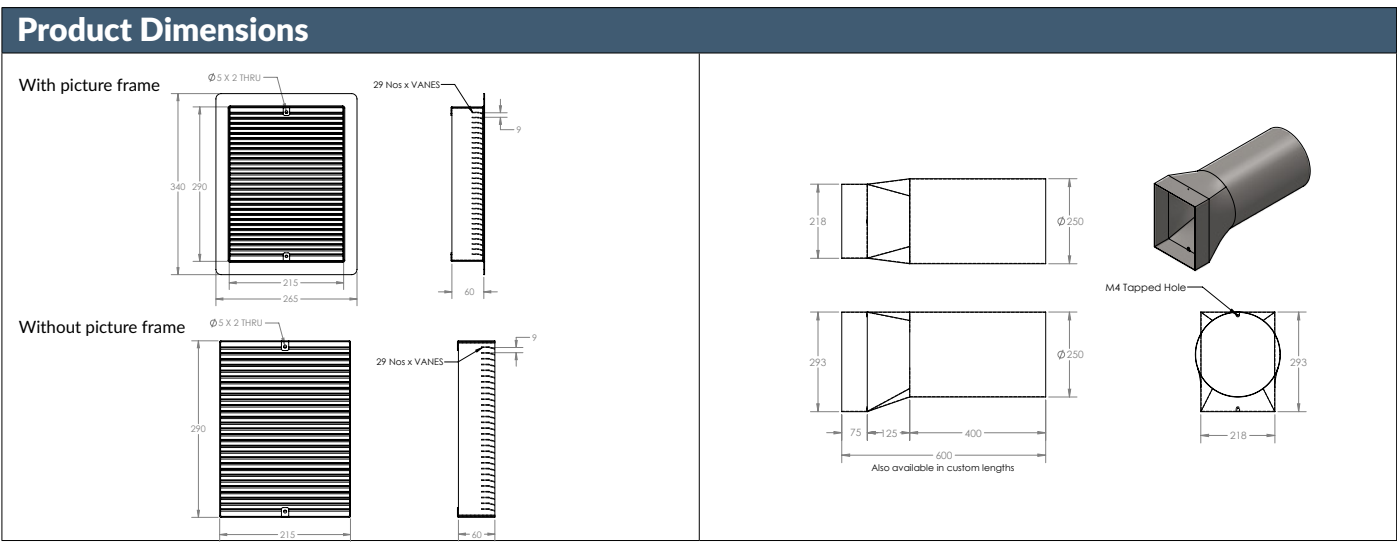
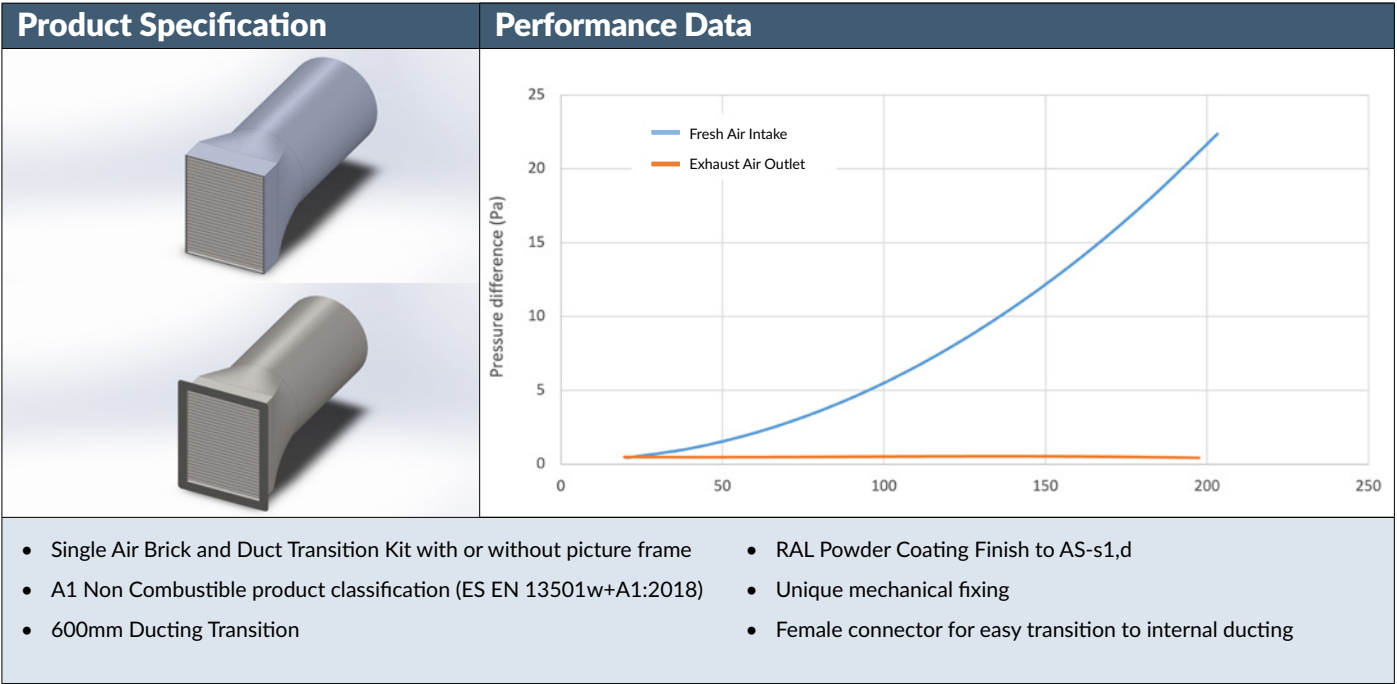


Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Quad	ResiBRICK ^{A1} Quad Kit 200mm	200mm	A1 and A2-s1,d0	2.5	58,050	RB-QUA-200/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Quad	ResiBRICK ^{A1} Quad Kit 200mm with picture frame	200mm	A1 and A2-s1,d0	2.7	58,050	RB-QUAPF-200/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLK - Black RAL 9010

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ResiBRICK^{A1} Quad Kit - 250mm



Product Range Info							
Product	Description	Duct Connection	Classification	Weight (kg)	Free Area mm²	Part Code	Colour Options
ResiBRICK ^{A1} Quad	ResiBRICK ^{A1} Quad Kit 250mm	250mm	A1 and A2-s1,d0	2.5	58,050	RB-QUA-250/600-COLOUR CODE	COT - Cotswold RAL 1014 TER - Terracotta RAL 8004 BRW - Brown RAL 8011
ResiBRICK ^{A1} Quad	ResiBRICK ^{A1} Quad Kit 250mm with picture frame	250mm	A1 and A2-s1,d0	2.7	58,050	RB-QUAPF-250/600-COLOUR CODE	WHI - Traffic White RAL 9016 BLK - Black RAL 9010

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ResiONE™

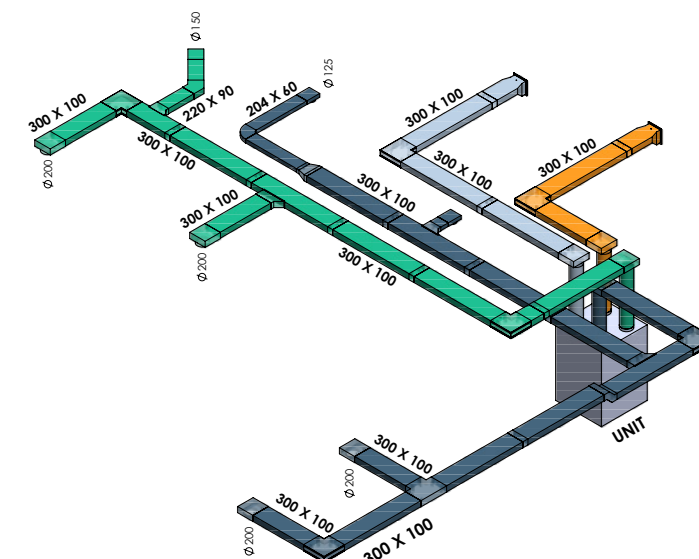
One System, One Supplier, One Specification

Single source integrated MVHR ducting and terminations for high airflow performance.

From the MVHR unit to the external facade, ResiONE™ brings together **ResiDUCT™** and **ResiBRICK^{A1}** to meet the increasingly challenging requirements for ventilation in residential buildings.

Together the integrated solution helps provide compliance with Part O: Overheating, Part B: Fire Safety and Part F: Ventilation.

From the MVHR unit, it's the smartest way out the building.



How does the system simplify design and compliance?

Part F: Ventilation

Contributes to airflow rates and installed performance with low resistance products

Part O: Overheating

Helps solve challenges around increased airflow rates and ducting size within current ceiling voids

Part B: Fire Safety

Ensures compliance with Fire Rated terminations for high rise residential dwellings

ResiDUCT™

Low profile metal ducting for high airflow requirements

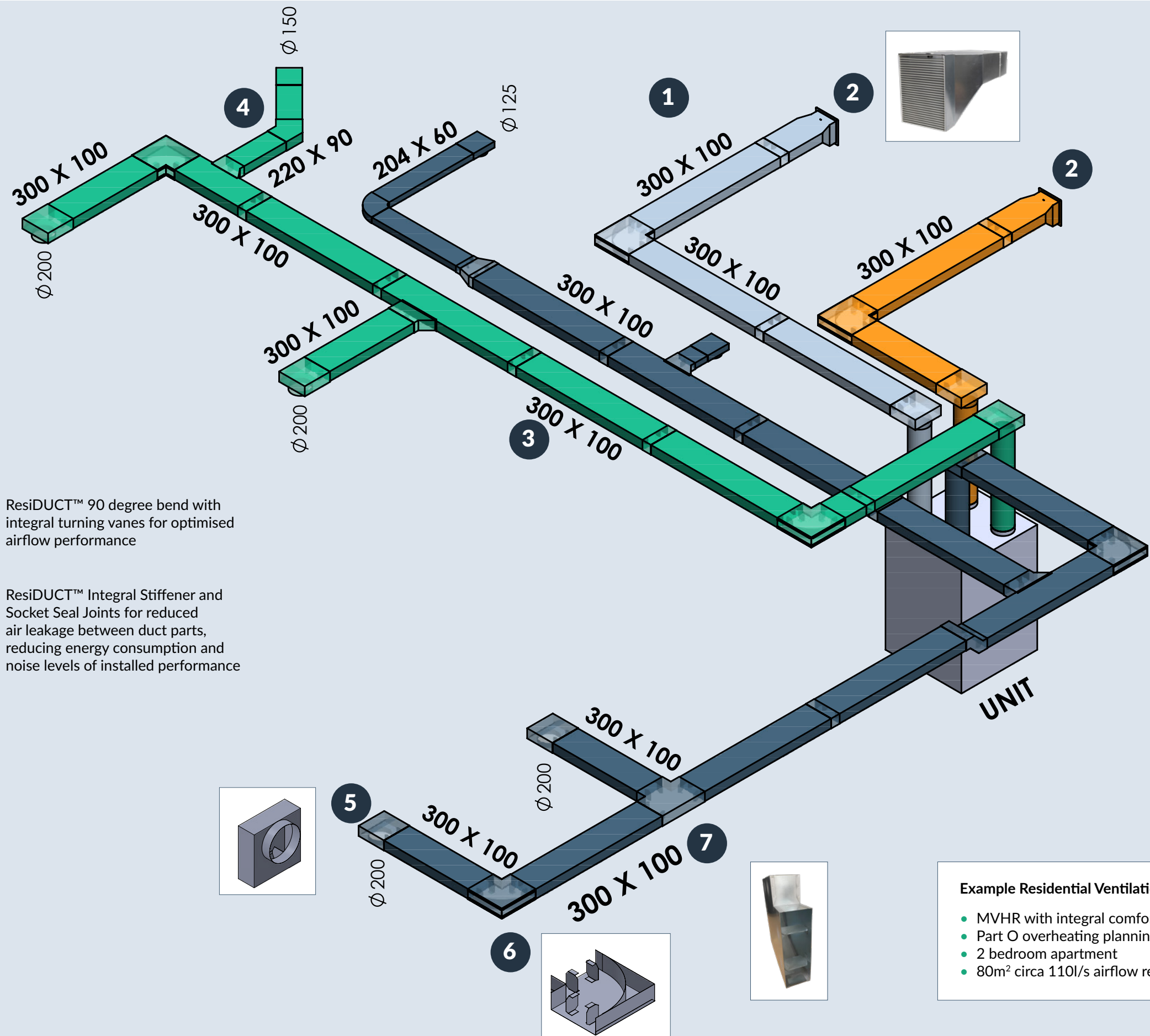
- Rectangular ductwork manufactured to DW144
- **Designed to fit in a standard ceiling void, eliminating the need for change in ducting strategy, use of access hatches and manifolds where high airflow rates are required**
- Available in 4 sizes: 300x100, 300x125, 400x100 and 400x125 (mm) - equivalent up to 230mm Ø
- ResiDUCT™ stiffeners improve duct connections and reduce air leakage
- Compatible with PVC ducting where hybrid strategies are being used e.g. 204x60mm

ResiBRICK^{A1}

A1 Fire Rated airbrick & duct transition kits for high rise residential buildings

- Complies with A1 Non-Combustibility to BS EN 13501w+ A1:2018
- Unique mechanical fixing for extra safety and lifetime security
- Sized to standard UK bricks for aesthetically pleasing finish
- **Supplied as kit comprising airbrick and ducting transition - available in 5 brick sizes & 11 duct diameters**
- Triple and Quad airbricks offer high performance up to **58,050mm² Free Area**

Where high airflow performance is required for overheating compliance, ResiDUCT™ and ResiBRICK^{A1} can offer a simplified, single source and cost effective approach for ventilation strategy in today's modern homes.



1 ResiDUCT™ 300 x 100mm Low profile ducting – Equivalent to 180mm Ø

2 ResiBRICK^{A1} A1 Fire Rated Airbrick and Duct Transition: The Quad

3 ResiDUCT™ 300 x 100mm Low profile ducting – equivalent to 180mm Ø

4 PVC Ducting 220 x 90mm Ø (Hybrid ducting design)

5 ResiDUCT™ high performance 200mmØ plenum elbow with integral turning vanes for optimised airflow performance

6 ResiDUCT™ 90 degree bend with integral turning vanes for optimised airflow performance

7 ResiDUCT™ Integral Stiffener and Socket Seal Joints for reduced air leakage between duct parts, reducing energy consumption and noise levels of installed performance

Example Residential Ventilation Layout

- MVHR with integral comfort cooling
- Part O overheating planning conditions
- 2 bedroom apartment
- 80m² circa 110l/s airflow requirement

