



ResiDUCT™

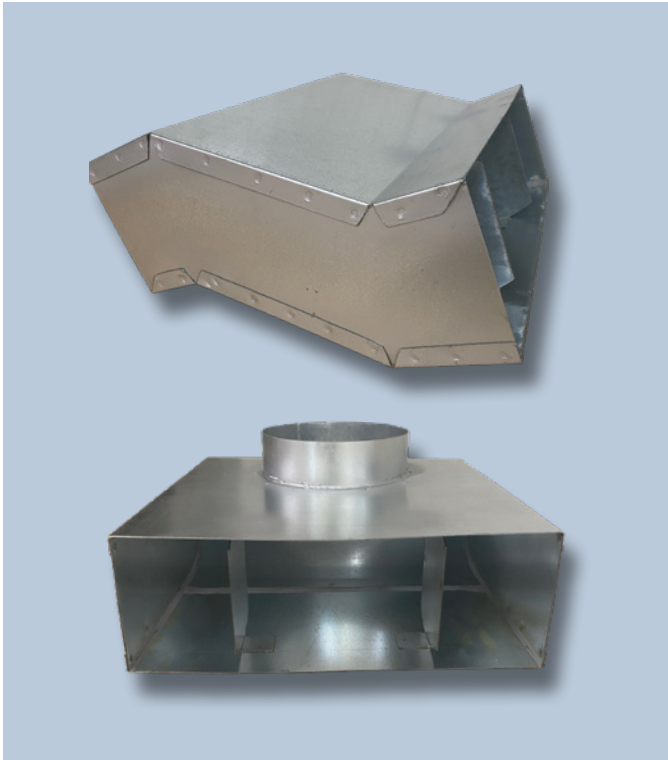
Low-Profile, High-Performance Ducting Range

ResiDUCT™

ResiDUCT™ is an innovative ducting solution designed to meet the increasing market demand for superior airflow performance and energy efficiency in residential homes.

The ducting offers a simple solution for MVHR systems where higher ventilation system rates are required due to **overheating planning conditions**.

- Fits in a standard ceiling void
- Reduces Air Leakage for maximum system performance
- Compatible with both PVC and metal ducting for hybrid designs



How do increased airflow rates impact the MVHR ventilation system?

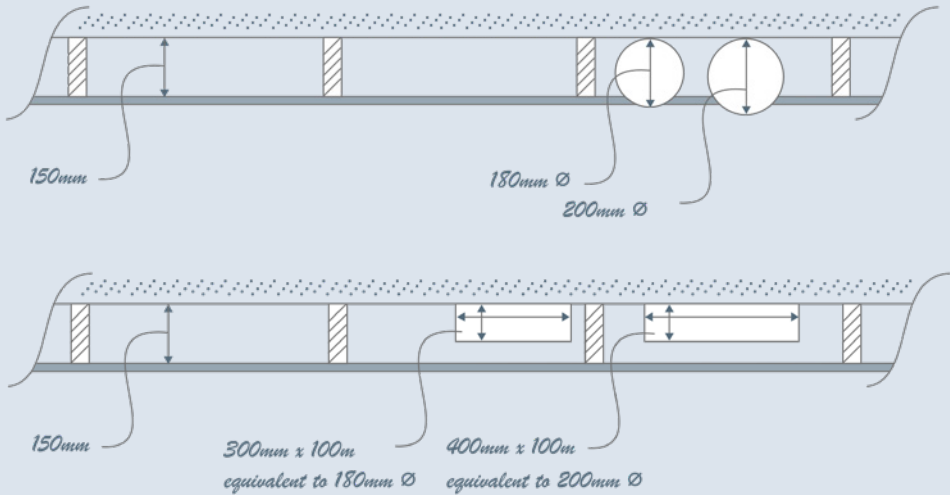
A MVHR unit may be powerful enough to deliver higher airflow rates, but achieving installed performance is also dependent on the ducting that is connected to it.

Where overheating has increased airflow rates, duct size has to be increased, potentially up to 180 or 200mm, however it's not always that simple in residential applications.

The typical ceiling void in a residential dwelling is up to 150mm.

But the increased airflow rates call for larger ducting which is not always feasible

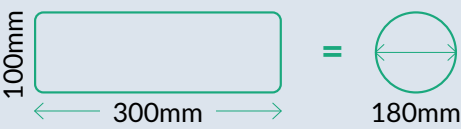
ResiDUCT™ provides a low profile solution that can help achieve higher airflows.



ResiDUCT™ Is Space Saving

ResiDUCT™ is a low profile system that provides high airflow in restricted or standard ceiling voids with ease.

Available in a range of sizes to suit:



300 x 100mm = 180mm Ø	400 x 100mm = 205mm Ø
300 x 125mm = 200mm Ø	400 x 125mm = 230mm Ø

MVHR and Part O: Overheating Higher Ventilation Rates = Larger Ductwork

Due to the increasing density of buildings, and energy efficiency regulations, **the risk of overheating has increased**, leading to poor comfort levels and impact on health and well-being of occupants.

Approved Document O: Overheating

The control of overheating is covered by Regulations (England & Wales) and the key requirements include;

- Design for comfort
- Limit solar gain
- **Provide adequate ventilation**
- Meet performance standards.

Calculating ventilation rates for Part O involves understanding specific parameters for airflow to ensure that internal spaces do not exceed comfortable temperature levels during the summer months.

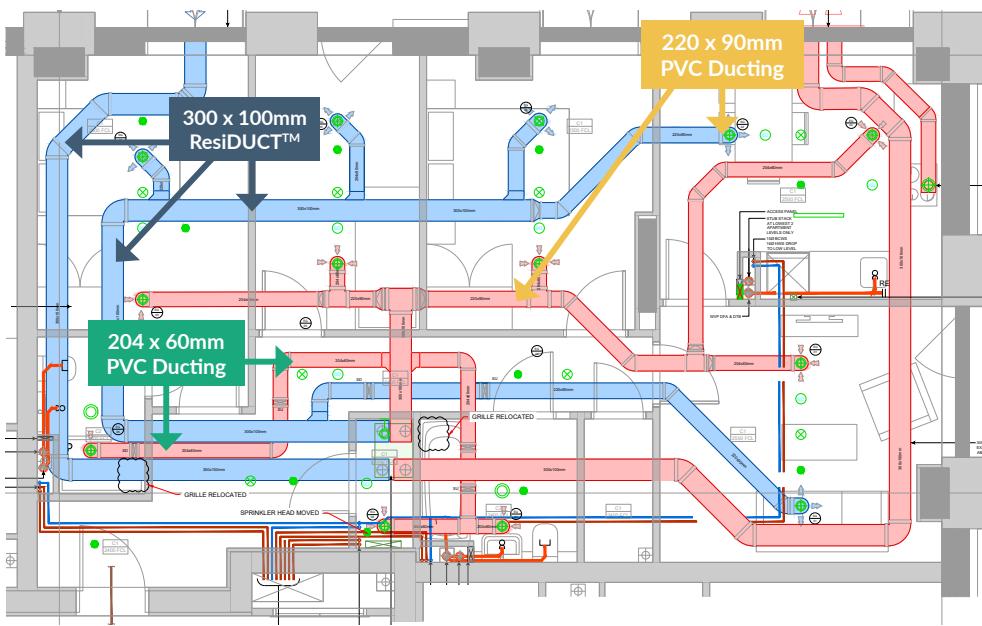
In many instances, overheating planning conditions result in increased ventilation rates that need to be achieved within the property.



Mix and Match - Hybrid Ducting Design

Hybrid ducting designs are becoming common practice to achieve airflow rates.

ResiDUCT™ is easily compatible with typical PVC duct sizes 220 x 90mm and 204 x 60mm



Design provided by client

ResiDUCT™

Addressing Air Leakage for maximum system efficiency

ResiDUCT™ has been designed to maximise installed performance and ensure that the MVHR unit performance can be achieved efficiently and quietly.

Innovative design features focus on;

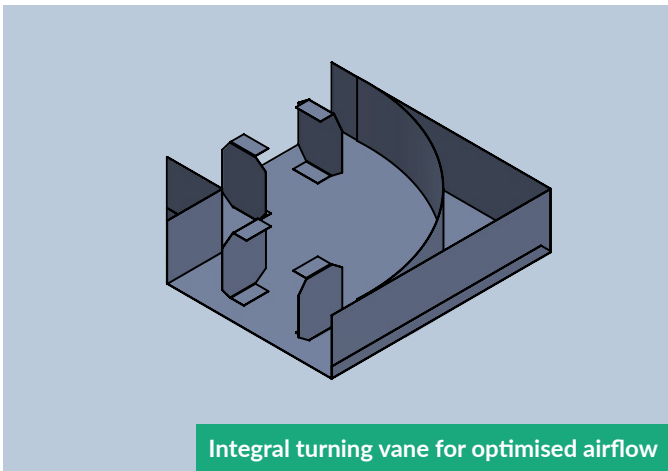
- Improving the quality of ducting connections
- Eliminating bowing of joined ducting
- Adding strength
- Optimising airflow around the system



Integral Stiffeners in ResiDUCT™ female connectors



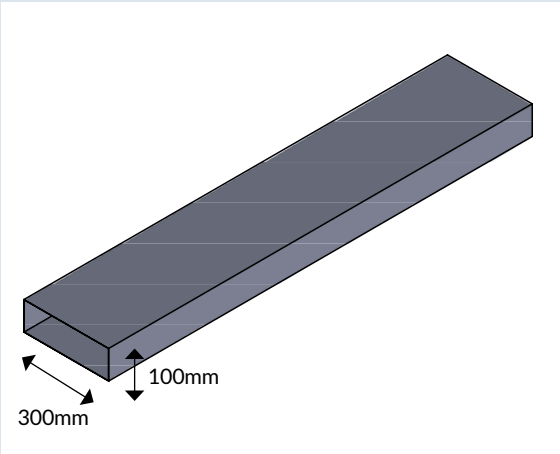
ResiDUCT™ socket seal jointing



Integral turning vane for optimised airflow

ResiDUCT™ 300x100mm

Low-profile High-Performance Ducting for Residential MVHR



Integral Stiffeners

- Slimline 300x100mm profile equivalent to 180mm Ø
- Low-pressure loss design, independently tested to BSEN13141
- Simple to install as part of a hybrid ducting system (PVC + Metal)
- **USP Innovative Integral stiffeners, a unique strengthening feature for metal ductwork designed to reduce air leakage**
- USP Socket seal jointing design for prevention of bowing and leakage gaps as parts are connected together to reduce air leakage
- Fire classification available – suitable for use with ResiBRICK^{A1} fire-rated terminations (Part B)
- Acoustic attenuation friendly – works with silencer accessories where required

Manufacturing:

- Manufactured to DW144 for sheet metal ductwork standards
- Galvanised steel 0.6mm
- Spot welded integral stiffeners to female duct fittings
- Manufactured to operate within a pressure range of ±200Pa

Technical Datasheets and CAD files available
www.pinnaclehvacsolutions.co.uk or see pages 14-27

Equivalent to 180mm Ø	Registered Design
Minimum Free Area 29,521mm ²	Ideal to installation with ResiBRICK ^{A1} Triple Range

With innovative design features, ResiDUCT™ helps maximise ventilation system performance.



Superior Performance

52%

Reduction in air leakage with ResiDUCT™ when compare with typical ductwork.



Energy Efficiency

34%

Reduction in MVHR fan speed for compliance to designed rates.



Cost Savings

40%

Reduction in costs compared to other metal ducting systems.

ResiBRICK^{A1} External Termination

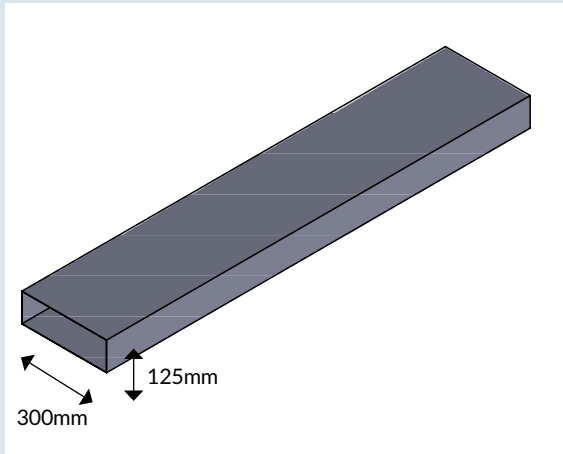
ResiDUCT™ 300x100mm is compatible with ResiBRICK^{A1} Triple which offers 42,570mm² Free Area (see page 34)

ResiBRICK^{A1} is available with/without a picture frame in 5 standard RAL colours.



ResiDUCT™
300x125mm

Low-profile High-Performance Ducting for Residential MVHR



- Slimline 300x125mm profile equivalent to 200mm Ø
- Low-pressure loss design, independently tested to BSEN13141
- Simple to install as part of a hybrid ducting system (PVC + Metal)
- **USP Innovative Integral stiffeners, a unique strengthening feature for metal ductwork designed to reduce air leakage**
- USP Socket seal jointing design for prevention of bowing and leakage gaps as parts are connected together to reduce air leakage
- Fire classification available – suitable for use with ResiBRICK^{A1} fire-rated terminations (Part B)
- Acoustic attenuation friendly – works with silencer accessories where required

Manufacturing:

- Manufactured to DW144 for sheet metal ductwork standards
- Galvanised steel 0.6mm
- Spot welded integral stiffeners to female duct fittings
- Manufactured to operate within a pressure range of ±200Pa

Technical Datasheets and CAD files available
www.pinnaclehvacsolutions.co.uk or see pages 14-27

Equivalent to 200mm Ø	Registered Design
Minimum Free Area 36,991mm ²	Ideal to installation with ResiBRICK ^{A1} Triple Range



ResiBRICK^{A1} External Termination

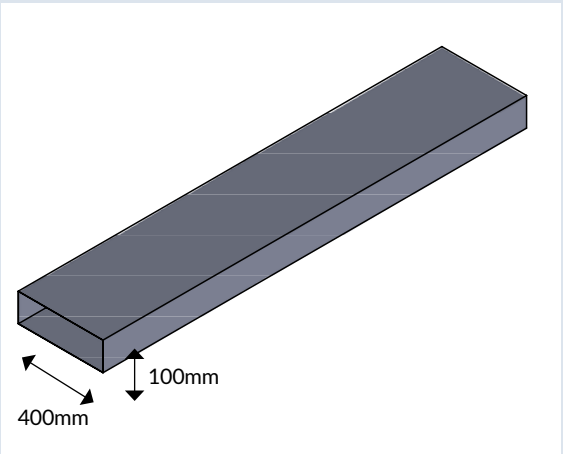
ResiDUCT™ 300x125mm is compatible with ResiBRICK^{A1} Triple which offers 42,570mm² Free Area (see page 34)

ResiBRICK^{A1} is available with/without a picture frame in 5 standard RAL colours.



ResiDUCT™
400x100mm

Low-profile High-Performance Ducting for Residential MVHR



- Slimline 400x100mm profile equivalent to 205mm Ø
- Low-pressure loss design, independently tested to BSEN13141
- Simple to install as part of a hybrid ducting system (PVC + Metal)
- **USP Innovative Integral stiffeners, a unique strengthening feature for metal ductwork designed to reduce air leakage**
- USP Socket seal jointing design for prevention of bowing and leakage gaps as parts are connected together to reduce air leakage
- Fire classification available – suitable for use with ResiBRICK^{A1} fire-rated terminations (Part B)
- Acoustic attenuation friendly – works with silencer accessories where required

Manufacturing:

- Manufactured to DW144 for sheet metal ductwork standards
- Galvanised steel 0.6mm
- Spot welded integral stiffeners to female duct fittings
- Manufactured to operate within a pressure range of ±200Pa

Technical Datasheets and CAD files available
www.pinnaclehvacsolutions.co.uk or see pages 14-27

Equivalent to 205mm Ø	Registered Design
Minimum Free Area 39,401mm ²	Ideal to installation with ResiBRICK ^{A1} Quad Range



ResiBRICK^{A1} External Termination

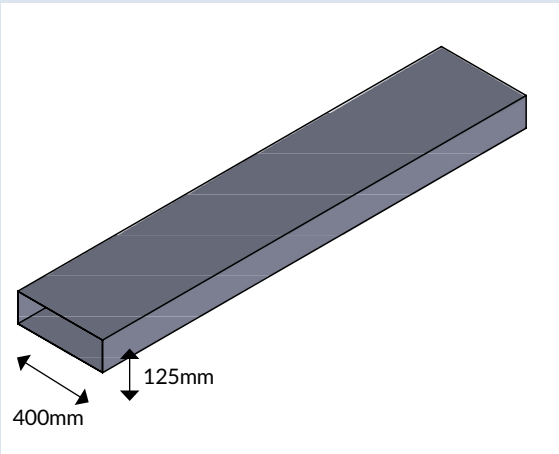
ResiDUCT™ 400x100mm is compatible with ResiBRICK^{A1} Quad which offers 42,570mm² Free Area (see page 35)

ResiBRICK^{A1} is available with/without a picture frame in 5 standard RAL colours.



ResiDUCT™
400x125mm

Low-profile High-Performance Ducting for Residential MVHR



- Slimline 400x125mm profile equivalent to 230mm Ø
- Low-pressure loss design, independently tested to BSEN13141
- Simple to install as part of a hybrid ducting system (PVC + Metal)
- **USP Innovative Integral stiffeners, a unique strengthening feature for metal ductwork designed to reduce air leakage**
- USP Socket seal jointing design for prevention of bowing and leakage gaps as parts are connected together to reduce air leakage
- Fire classification available – suitable for use with ResiBRICK^{A1} fire-rated terminations (Part B)
- Acoustic attenuation friendly – works with silencer accessories where required

Manufacturing:

- Manufactured to DW144 for sheet metal ductwork standards
- Galvanised steel 0.6mm
- Spot welded integral stiffeners to female duct fittings
- Manufactured to operate within a pressure range of ±200Pa

Technical Datasheets and CAD files available
www.pinnaclehvacsolutions.co.uk or see pages 14-27

Equivalent to 230mm Ø	Registered Design
Minimum Free Area 49,371mm²	Ideal to installation with ResiBRICK ^{A1} Quad Range



ResiBRICK^{A1} External Termination

ResiDUCT™ 400x125mm is compatible with ResiBRICK^{A1} Quad which offers 42,570mm² Free Area (see page 35)

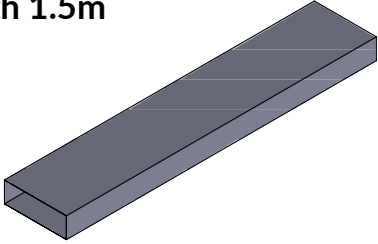
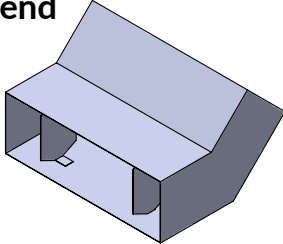
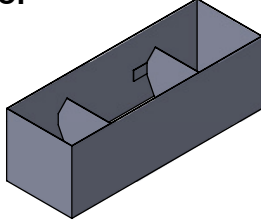
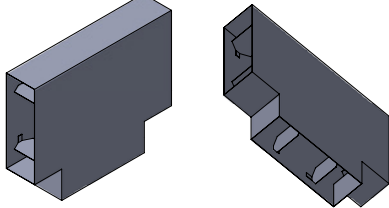
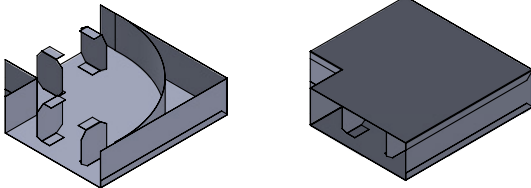
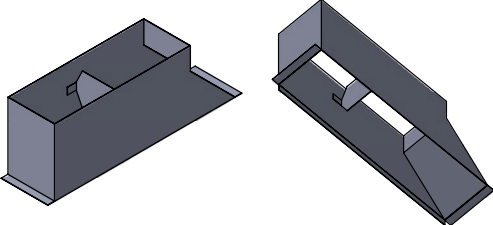
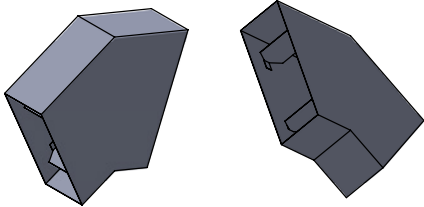
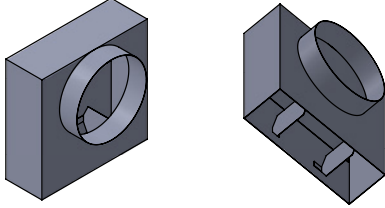
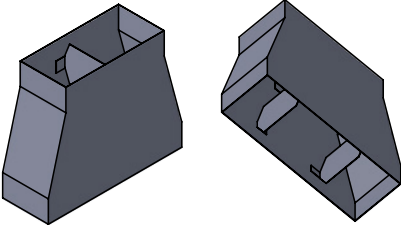
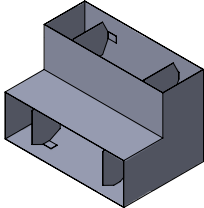
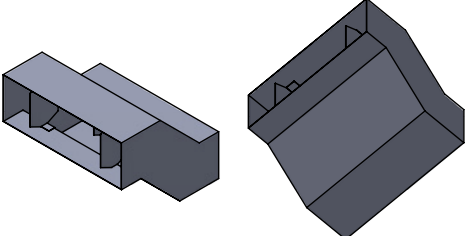
ResiBRICK^{A1} is available with/without a picture frame in 5 standard RAL colours.



ResiDUCT™ Range

Range Components

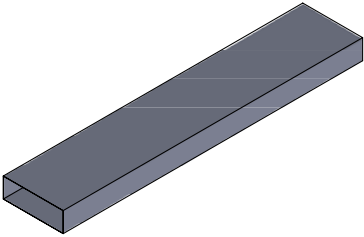
Revit and CAD files are available for all ResiDUCT™ parts.

Duct Length 1.5m 	45 Vertical Bend 
Duct Connector 	Horizontal T Piece 
90 Horizontal Bend – High Efficiency 	Flat Shoe (Left/Right) 
45 Horizontal Bent 	
Plenum Elbow 	Taper 
90 Vertical Bend – High Efficiency 	Offset 

TECHNICAL DATA SHEET

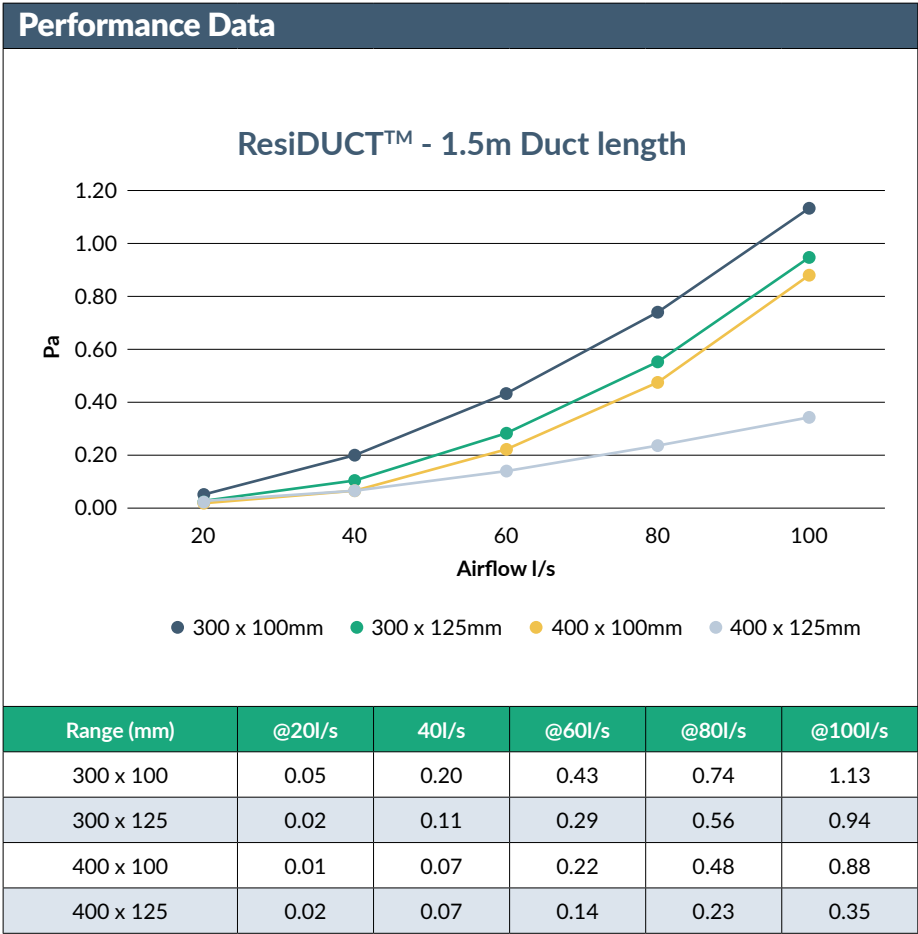
ResiDUCT™ Duct Length - 1.5m

Product Specification



The ResiDUCT™ Rectangular duct length is part of the ResiDUCT™ system range of ducting:

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing
- Suitable for installation with ResiDUCT™ female adaptors & connectors
- Easy to install as part of hybrid system (PVC & Metal)
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request



Product Dimensions



Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)
300 x 100	300	298.8	100	98.8
300 x 125	300	298.8	125	123.8
400 x 100	400	398.8	100	98.8
400 x 125	400	398.8	125	123.8

Product Range Info

Range Size (mm)	Part Code	Minimum Free Area (mm²)	Dimensions (mm)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100D	29,521	300 x 100 x 1500	1.5m Duct Length	Male	0.6 galvanised steel	7.1	DW144
300 x 125	RD/300125D	36,991	300 x 125 x 1500	1.5m Duct Length	Male	0.6 galvanised steel	7.4	DW144
400 x 100	RD/400100D	39,401	400 x 100 x 1500	1.5m Duct Length	Male	0.6 galvanised steel	8.7	DW144
400 x 125	RD/400125D	49,371	400 x 125 x 1500	1.5m Duct Length	Male	0.6 galvanised steel	9.1	DW144

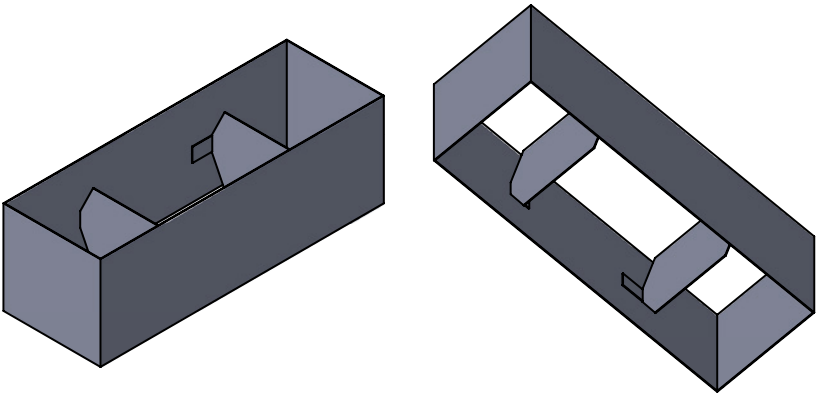
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice

Performance independently tested by BSRIA

TECHNICAL DATA SHEET

ResiDUCT™ Duct Connector

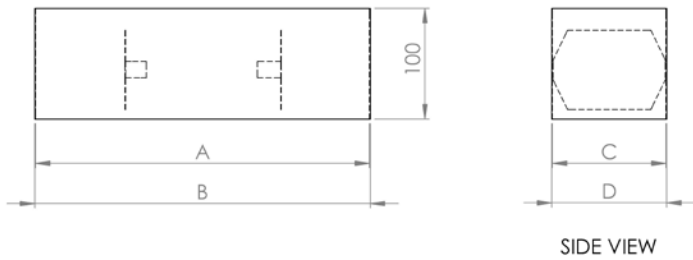
Product Specification



The ResiDUCT™ rectangular straight duct connector is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request

Product Dimensions



Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)
300 x 100mm	303	304.2	103	104.2
300 x 125mm	303	304.2	127	128.2
400 x 100mm	403	404.2	103	104.2
400 x 125mm	403	404.2	127	128.2

Product Range Info

Range Size (mm)	Part Code	Minimum Free Area (mm²)	Dimensions (mm)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100DC	29,521	303 x 103 x 100	Straight duct connector	Female	0.6	1.2	DW144
300 x 125	RD/300125DC	36,991	303 x 128 x 100	Straight duct connector	Female	0.6	1.3	DW144
400 x 100	RD/400100D	39,401	403 x 103 x 100	Straight duct connector	Female	0.6	1.4	DW144
400 x 125	RD/400125DC	49,371	403 x 128 x 100	Straight duct connector	Female	0.6	1.6	DW144

Design Registration: 6369533

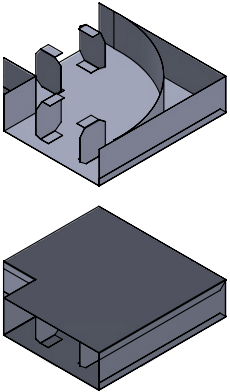
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice

Performance independently tested by BSRIA

TECHNICAL DATA SHEET

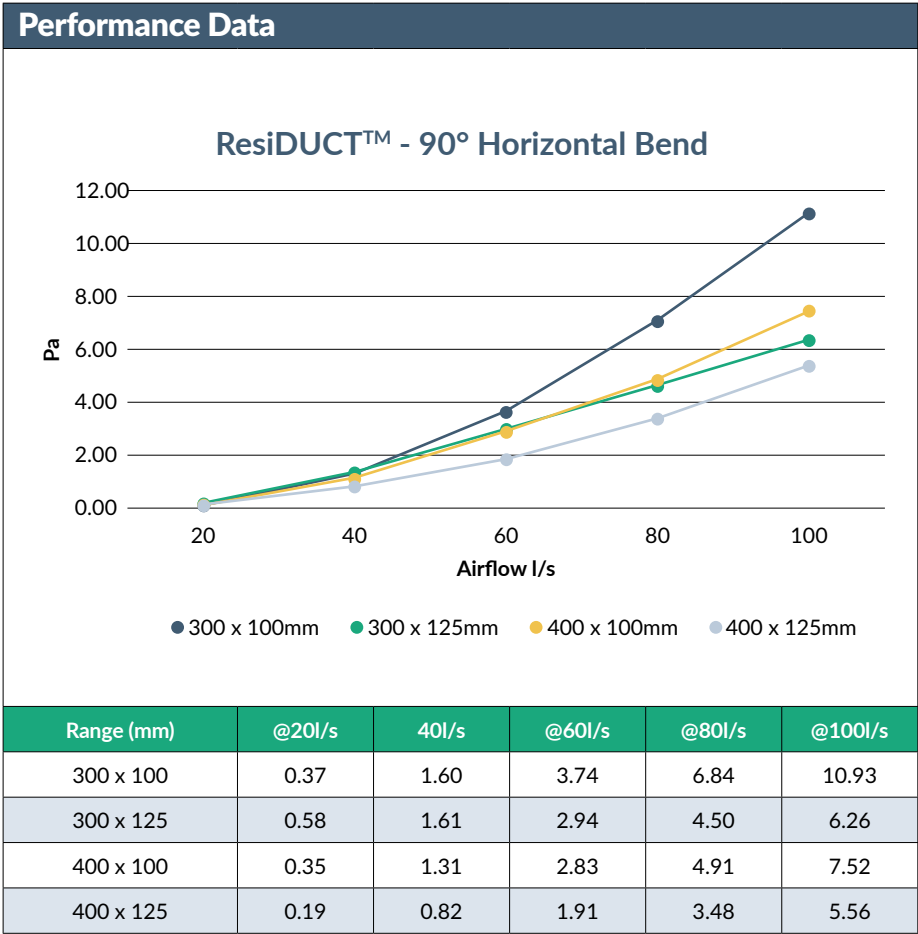
ResiDUCT™ 90° Horizontal Bend

Product Specification

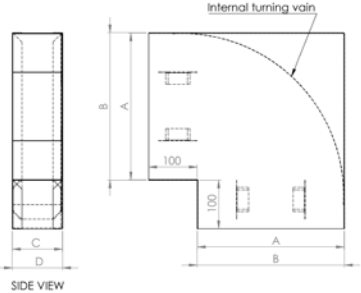


The ResiDUCT™ 90 horizontal bend is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Integral turning vane
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request



Product Dimensions



Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)
300 x 100mm	303	304.2	103	104.2
300 x 125mm	303	304.2	127	128.2
400 x 100mm	403	404.2	103	104.2
400 x 125mm	403	404.2	127	128.2

Product Range Info

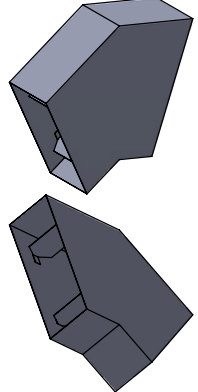
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100B90	29,521	90° Horizontal Bend with integral turning vane	Female	0.6	3.1	DW144
300 x 125	RD/300125B90	36,991	90° Horizontal Bend with integral turning vane	Female	0.6	3.2	DW144
400 x 100	RD/400100B90	39,401	90° Horizontal Bend with integral turning vane	Female	0.6	4.4	DW144
400 x 125	RD/400125B90	49,371	90° Horizontal Bend with integral turning vane	Female	0.6	5	DW144

Design Registration: 6369538
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

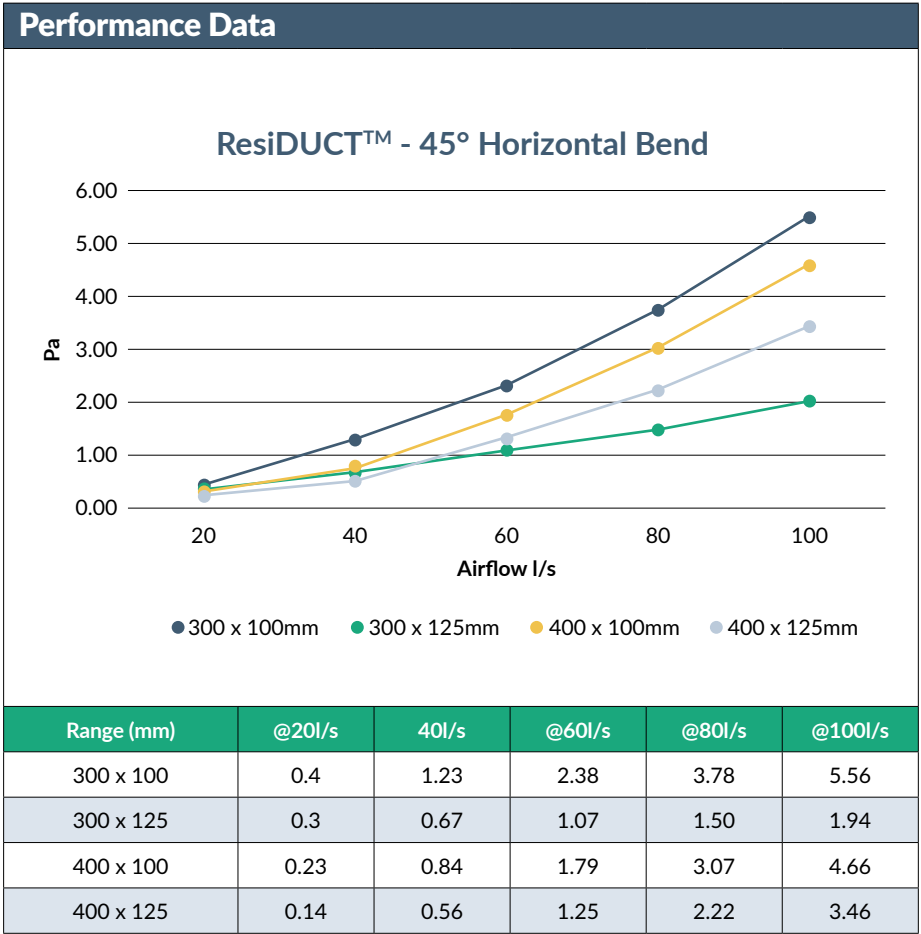
ResiDUCT™ 45° Horizontal Bend

Product Specification

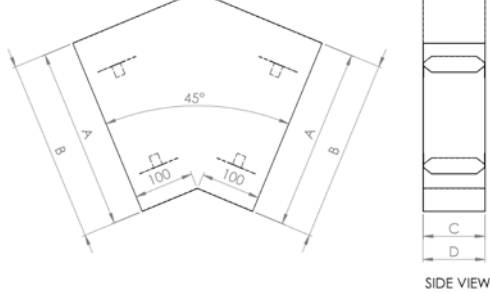


The ResiDUCT™ 45 horizontal bend is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request



Product Dimensions



Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)
300 x 100	303	304.2	103	104.2
300 x 125	303	304.2	127	128.2
400 x 100	403	404.2	103	104.2
400 x 125	403	404.2	127	128.2

Product Range Info

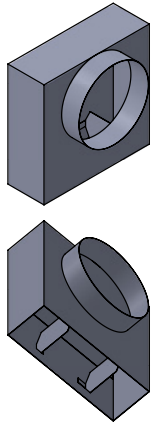
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100B45	29,521	45° Horizontal Bend	Female	0.6	1.8	DW144
300 x 125	RD/300125B45	36,991	45° Horizontal Bend	Female	0.6	2	DW144
400 x 100	RD/400100B45	39,401	45° Horizontal Bend	Female	0.6	2.3	DW144
400 x 125	RD/400125B45	49,371	45° Horizontal Bend	Female	0.6	2.5	DW144

Design Registration: 6378293
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

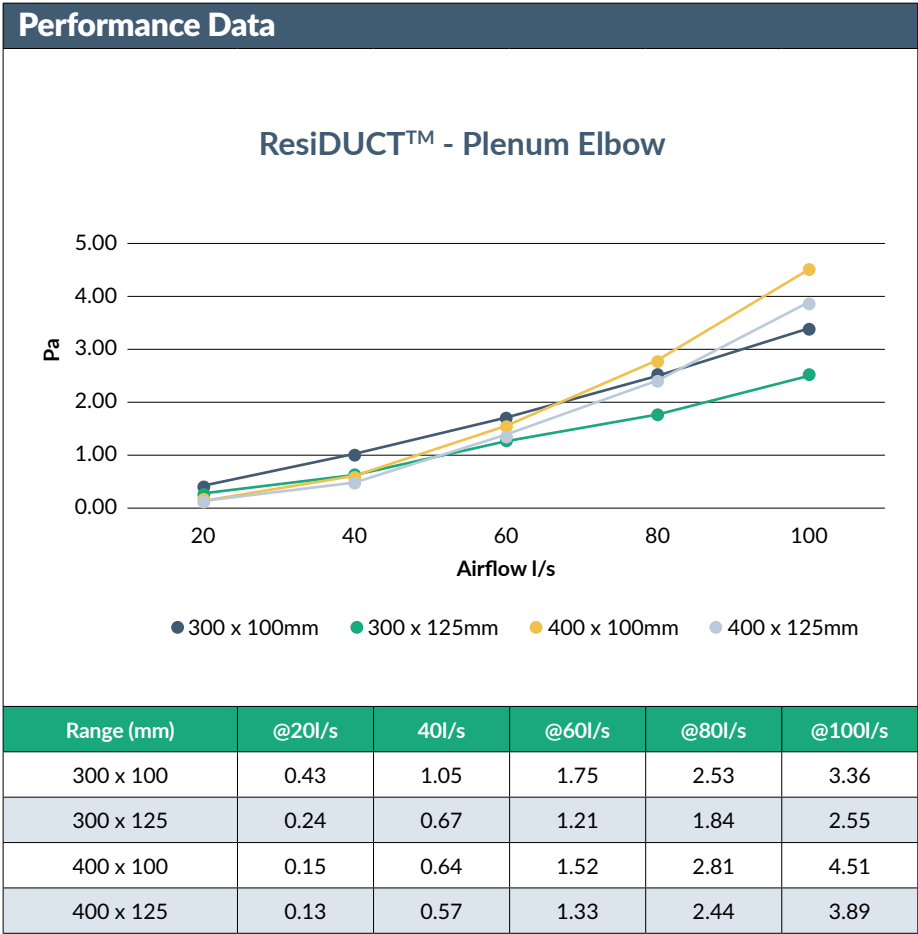
ResiDUCT™ Plenum Elbow > 200mm Ø

Product Specification

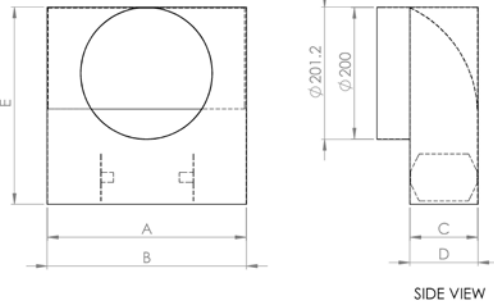


The ResiDUCT™ plenum elbow is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- 200mm spigot connection
- Socket seal jointing (female connection)
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request



Product Dimensions



Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
300 x 100	303	304.2	103	104.2	300
300 x 125	303	304.2	127	128.2	300
400 x 100	403	404.2	103	104.2	350
400 x 125	403	404.2	127	128.2	350

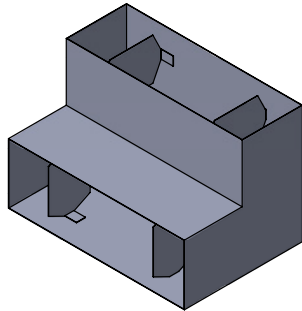
Product Range Info							
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100EL	29,521 (rectangular end) 12,345 (200mm Ø end)	Plenum Elbow	Female	0.6	1.5	DW144
300 x 125	RD/300125EL	36,991 (rectangular end) 12,345 (200mm Ø end)	Plenum Elbow	Female	0.6	1.5	DW144
400 x 100	RD/400100EL	39,401 (rectangular end) 12,345 (200mm Ø end)	Plenum Elbow	Female	0.6	1.5	DW144
400 x 125	RD/400125EL	49,371 (rectangular end) 12,345 (200mm Ø end)	Plenum Elbow	Female	0.6	1.5	DW144

Design Registration: 5359535
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

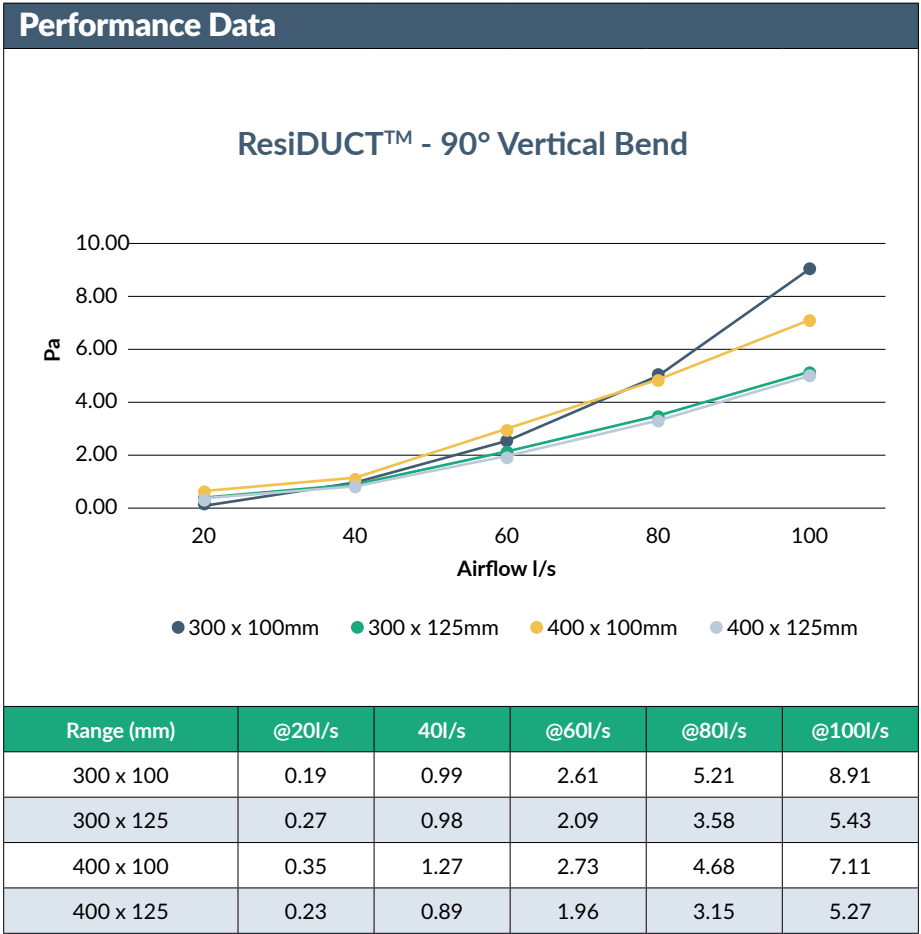
ResiDUCT™ 90° Vertical Bend

Product Specification

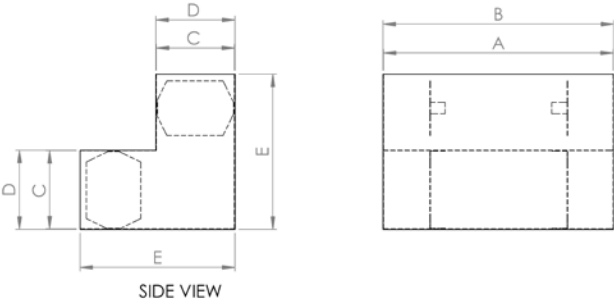


The ResiDUCT™ 90 vertical bend is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request



Product Dimensions



Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
300 x 100	303	304.2	103	104.2	204.2
300 x 125	303	304.2	127	128.2	228.2
400 x 100	403	404.2	103	104.2	204.2
400 x 125	403	404.2	127	128.2	228.2

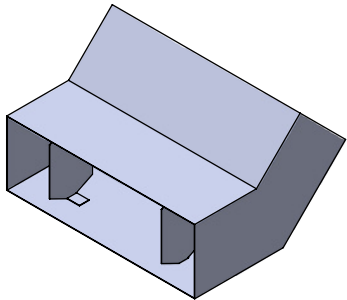
Product Range Info							
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100V90	29,521	90° Vertical Bend	Female	0.6	3	DW144
300 x 125	RD/300125V90	36,991	90° Vertical Bend	Female	0.6	3.2	DW144
400 x 100	RD/400100V90	39,401	90° Vertical Bend	Female	0.6	3.8	DW144
400 x 125	RD/400125V45	49,371	90° Vertical Bend	Female	0.6	4	DW144

Design Registration: 6369532
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

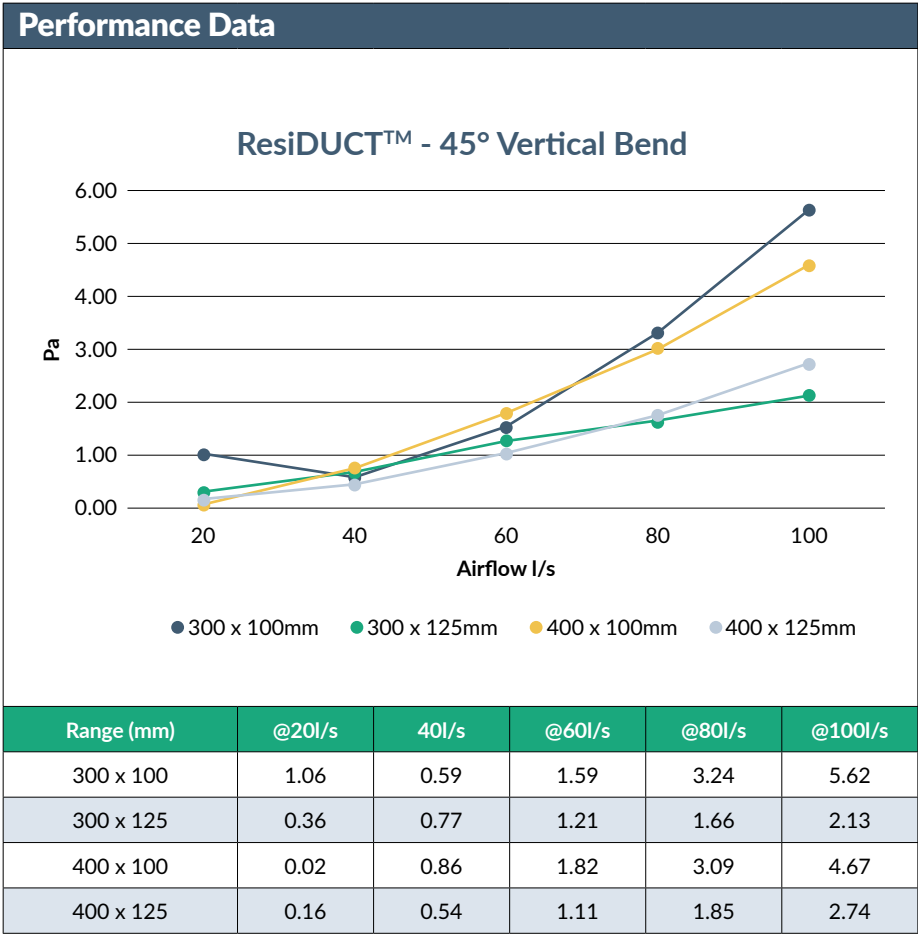
ResiDUCT™ 45° Vertical Bend

Product Specification

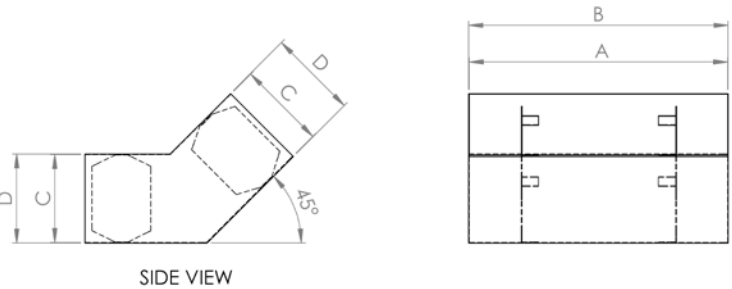


The ResiDUCT™ 45 Vertical Bend is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request



Product Dimensions



Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)
300 x 100	303	304.2	103	104.2
300 x 125	303	304.2	127	128.2
400 x 100	403	404.2	103	104.2
400 x 125	403	404.2	127	128.2

Product Range Info

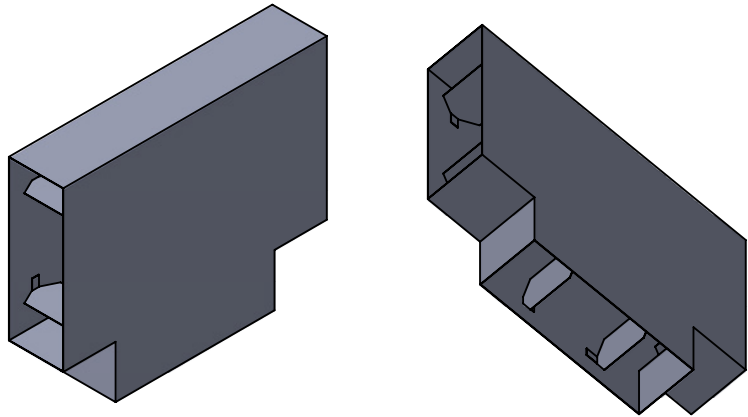
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100V45	29,521	45° Vertical Bend	Female	0.6	1.8	DW144
300 x 125	RD/300125V45	36,991	45° Vertical Bend	Female	0.6	2	DW144
400 x 100	RD/400100V45	39,401	45° Vertical Bend	Female	0.6	2.3	DW144
400 x 125	RD/400125V45	49,371	45° Vertical Bend	Female	0.6	2.5	DW144

Design Registration: 6369531
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

ResiDUCT™ Horizontal Equal T Piece

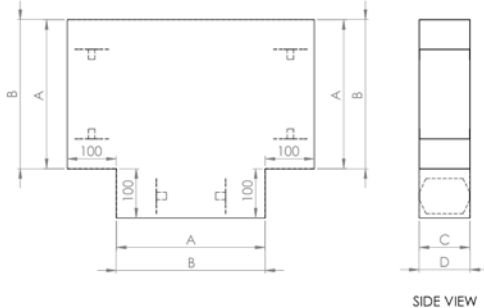
Product Specification



The ResiDUCT™ horizontal equal T Piece is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request

Product Dimensions



Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)
300 x 100	303	304.2	103	104.2
300 x 125	303	304.2	127	128.2
400 x 100	403	404.2	103	104.2
400 x 125	403	404.2	127	128.2

Product Range Info

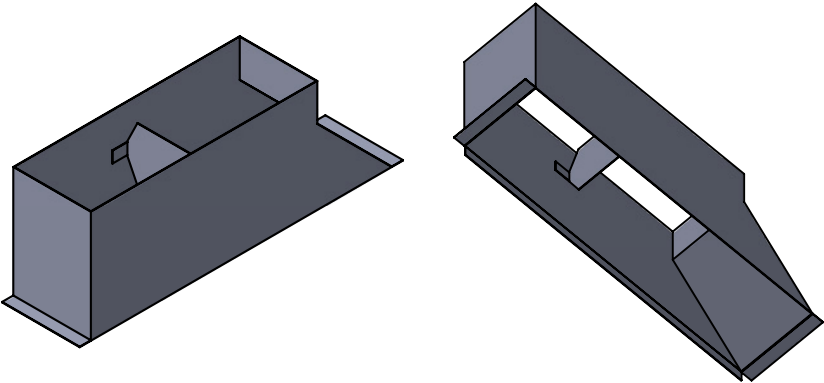
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100T	29,521	Horizontal Equal T Piece	Female	0.6	3.2	DW144
300 x 125	RD/300125T	36,991	Horizontal Equal T Piece	Female	0.6	3.5	DW144
400 x 100	RD/400100T	39,401	Horizontal Equal T Piece	Female	0.6	4.6	DW144
400 x 125	RD/400125T	49,371	Horizontal Equal T Piece	Female	0.6	5.2	DW144

Design Registration:
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

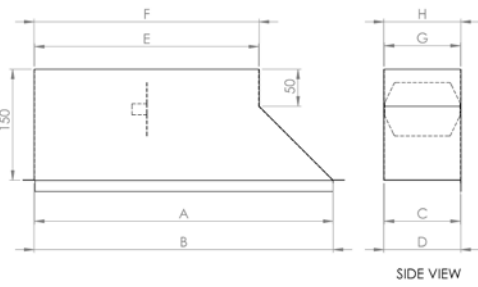
ResiDUCT™ Flat Shoe

Product Specification



The ResiDUCT™ Flat Shoe is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request

Product Dimensions									
	Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
	300 x 100	403	404.2	103	104.2	303	304.2	103	104.2
	300 x 125	403	404.2	127	128.2	303	304.2	127	128.2
	400 x 100	503	504.2	103	104.2	403	404.2	103	104.2
	400 x 125	503	504.2	127	128.2	403	404.2	127	128.2

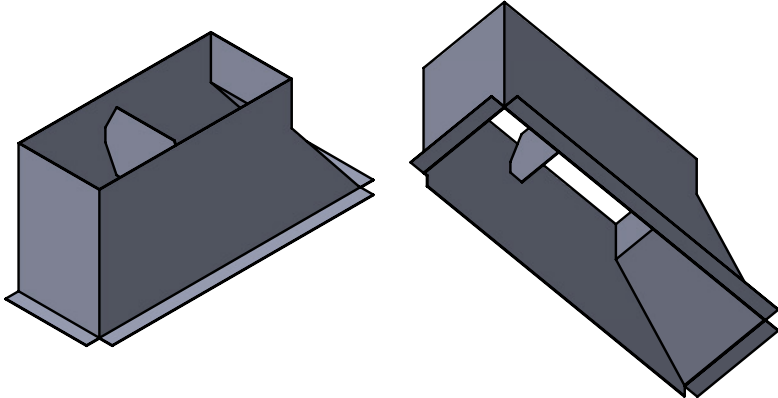
Product Range Info								
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Dimensions (mm)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100SH	29,521	403x103>303x103	Flat Shoe - Left Hand	Female	0.6	1.3	DW144
300 x 125	RD/300125SH	36,991	403x127>303x127	Flat Shoe - Left Hand	Female	0.6	1.3	DW144
400 x 100	RD/400100SH	39,401	503x103>403x103	Flat Shoe - Left Hand	Female	0.6	1.3	DW144
400 x 125	RD/400125SH	49,371	503x127>403x127	Flat Shoe - Left Hand	Female	0.6	1.3	DW144

Design Registration: 6369536
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

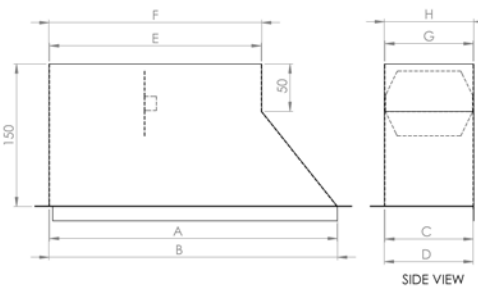
ResiDUCT™ Flat Shoe 220 x 90mm

Product Specification



The ResiDUCT™ Flat Shoe is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request

Product Dimensions									
	Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
	300 x 100	303	304.2	93	94.2	223	224.2	93	94.2
	300 x 125	303	304.2	127	128.2	223	224.2	93	94.2
	400 x 100	403	404.2	93	94.2	223	224.2	93	94.2
	400 x 125	403	404.2	127	128.2	223	224.2	93	94.2

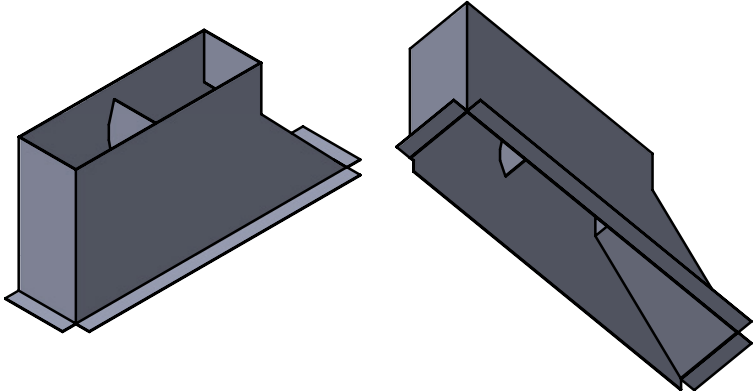
Product Range Info								
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Dimensions (mm)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100SH1	18,545 to 29,521	303x103>223x93	Flat Shoe - Left Hand	Female	0.6	1.3	DW144
300 x 125	RD/300125SH1	18,545 to 36,991	303x127>223x93	Flat Shoe - Left Hand	Female	0.6	1.3	DW144
400 x 100	RD/400100SH1	18,545 to 39,401	403x103>223x93	Flat Shoe - Left Hand	Female	0.6	1.3	DW144
400 x 125	RD/400125SH1	18,545 to 49,371	403x127>223x93	Flat Shoe - Left Hand	Female	0.6	1.3	DW144

Design Registration: 6369536
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

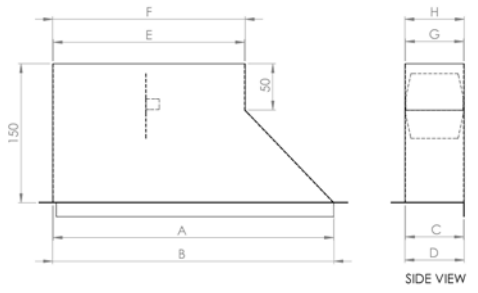
ResiDUCT™ Flat Shoe 204 x 60mm

Product Specification



The ResiDUCT™ Flat Shoe is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request

Product Dimensions									
	Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
	300 x 100	303	304.2	63	64.2	207	208.2	63	64.2
	300 x 125	303	304.2	127	128.2	207	208.2	63	64.2
	400 x 100	403	404.2	63	64.2	207	208.2	63	64.2
	400 x 125	403	404.2	127	128.2	207	208.2	63	64.2

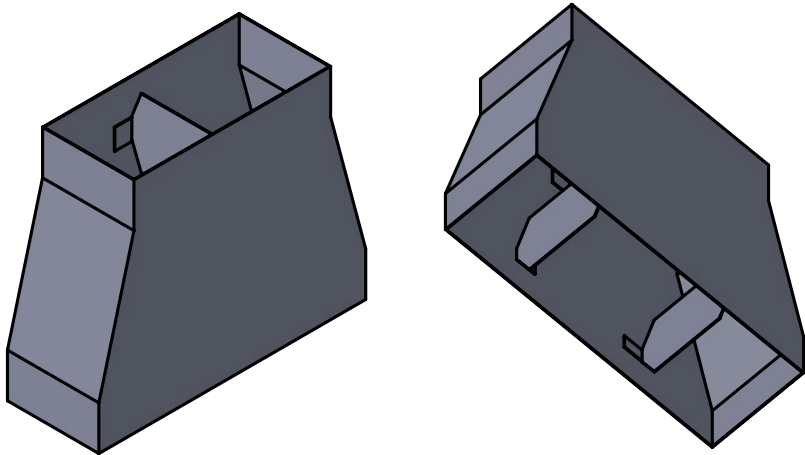
Product Range Info								
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Dimensions (mm)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100SH2	11,452 to 29,521	303x103>207x63	Flat Shoe - Left Hand	Female	0.6	1.3	DW144
300 x 125	RD/300125SH2	11,452 to 36,991	303x127>207x63	Flat Shoe - Left Hand	Female	0.6	1.3	DW144
400 x 100	RD/400100SH2	11,452 to 39,401	403x103>207x63	Flat Shoe - Left Hand	Female	0.6	1.3	DW144
400 x 125	RD/400125SH2	11,452 to 9,371	403x127>207x63	Flat Shoe - Left Hand	Female	0.6	1.3	DW144

Design Registration: 6369536
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

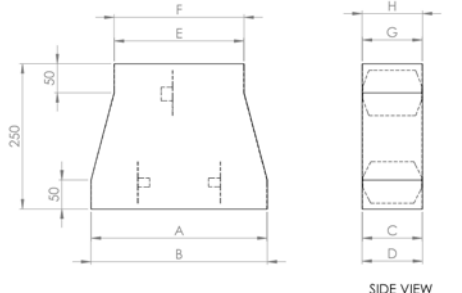
ResiDUCT™ Taper - 220 x 90mm

Product Specification



The ResiDUCT™ Taper is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Suitable for connection to 220 x 90mm ducting
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request

Product Dimensions									
	Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
	300 x 100	303	304.2	103	104.2	223	224.2	93	94.2
	300 x 125	303	304.2	127	128.2	223	224.2	93	94.2
	400 x 100	403	404.2	103	104.2	223	224.2	93	94.2
	400 x 125	403	404.2	127	128.2	223	224.2	93	94.2

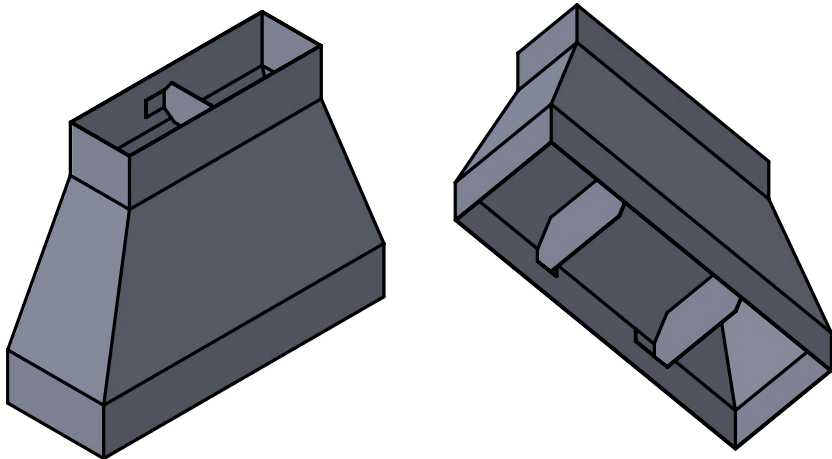
Product Range Info								
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Dimensions (mm)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/30010022090	18,545 to 29,521	303x103>223x93	Taper	Female	0.6	1.4	DW144
300 x 125	RD/30012522090	18,545 to 36,991	303x127>223x93	Taper	Female	0.6	1.5	DW144
400 x 100	RD/40010022090	18,545 to 39,401	403x103>223x93	Taper	Female	0.6	1.7	DW144
400 x 125	RD/40012522090	18,545 to 49,371	403x127>223x93	Taper	Female	0.6	1.8	DW144

Design Registration: 6378295
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

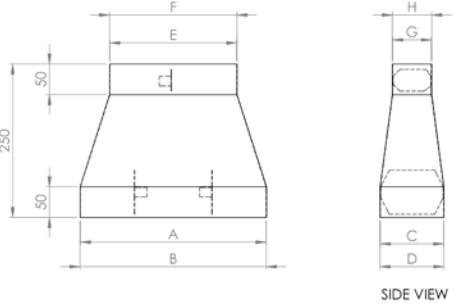
ResiDUCT™ Taper - 204 x 60mm

Product Specification



The ResiDUCT™ Taper is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Suitable for connection to 204 x 60mm ducting
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request

Product Dimensions										
		Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
		300 x 100	303	304.2	103	104.2	207	208.2	63	64.2
		300 x 125	303	304.2	127	128.2	207	208.2	63	64.2
		400 x 100	403	404.2	103	104.2	207	208.2	63	64.2
		400 x 125	403	404.2	127	128.2	207	208.2	63	64.2

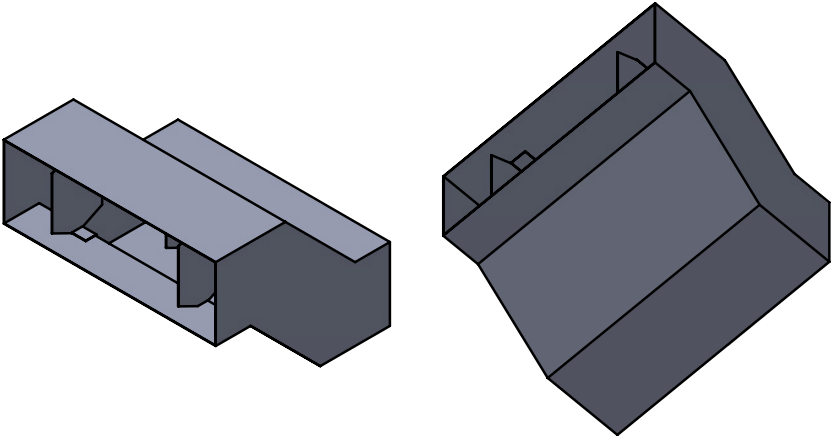
Product Range Info								
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Dimensions (mm)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/30010020460	11,452 to 29,521	303x103>207x63	Taper	Female	0.6	1.4	DW144
300 x 125	RD/30012520460	11,452 to 36,991	303x127>207x63	Taper	Female	0.6	1.5	DW144
400 x 100	RD/40010020460	11,452 to 39,401	403x103>207x63	Taper	Female	0.6	1.7	DW144
400 x 125	RD/40012520460	11,452 to 49,371	403x127>207x63	Taper	Female	0.6	1.8	DW144

Design Registration: 6378295
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA

TECHNICAL DATA SHEET

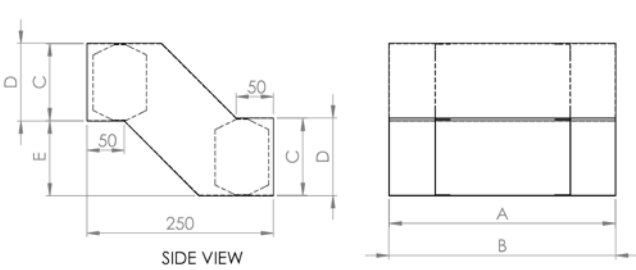
ResiDUCT™ Offset

Product Specification



The ResiDUCT™ Offset is part of the ResiDUCT™ system range;

- Manufactured from 0.6mm galvanised steel
- DW144 Specification
- Socket seal jointing (female connection)
- Integral ResiDUCT™ stiffeners for additional strength and reduction in air leakage as parts are joined together
- Available in 300x100, 300x125, 400x100, 400x125 (mm)
- Bespoke sizes available on request

Product Dimensions						
		Range (mm)	A (mm)	B (mm)	C (mm)	D (mm)
		300 x 100	303	304.2	103	104.2
		300 x 125	303	304.2	127	128.2
		400 x 100	403	404.2	103	104.2
		400 x 125	403	404.2	127	128.2

Product Range Info								
Range Size (mm)	Part Code	Minimum Free Area (mm²)	Dimensions (mm)	Description	Connection	Material (mm)	Weight (kg)	Manufactured To
300 x 100	RD/300100OS	29,521	Offset 100 303x103	Offset	Female	0.6	1.2	DW144
300 x 125	RD/300125OS	36,991	Offset 125 303x127	Offset	Female	0.6	1.5	DW144
400 x 100	RD/400100OS	39,401	Offset 100 403x103	Offset	Female	0.6	3.1	DW144
400 x 125	RD/400125OS	49,371	Offset 125 403x127	Offset	Female	0.6	1.5	DW144

Design Registration: 6369534
Downloadable files available at www.pinnacleductwork.co.uk – BIM, CAD, Consultant Specification, Brochure & Install Best Practice
Performance independently tested by BSRIA



ResiONE™

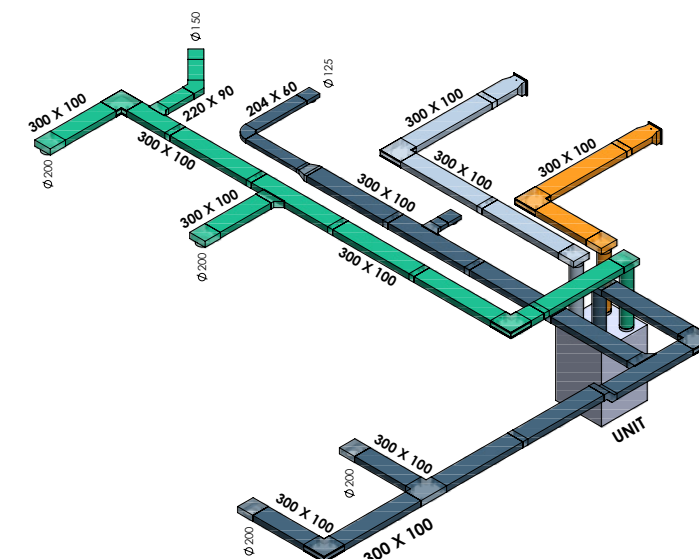
One System, One Supplier, One Specification

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

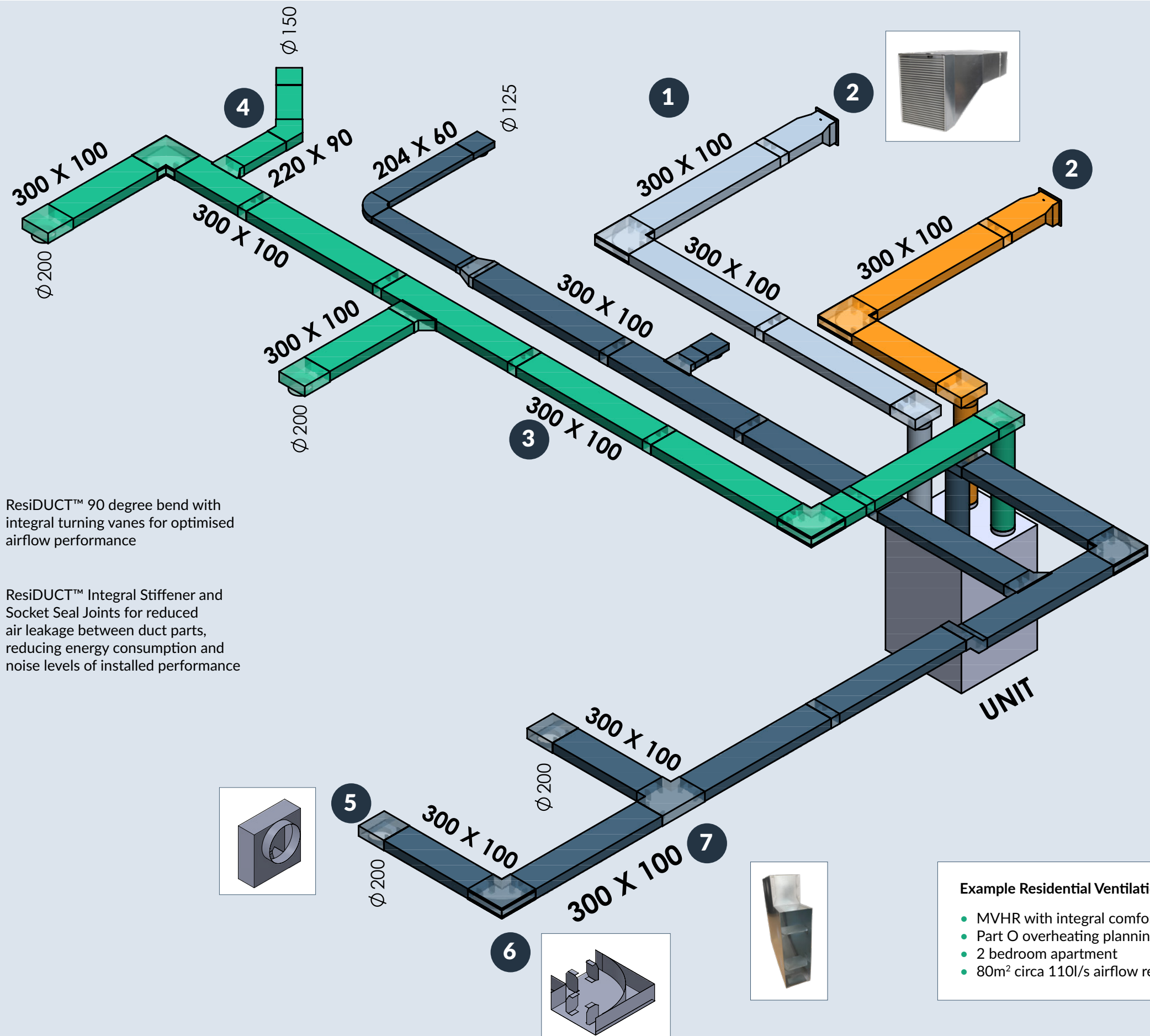
- Rectangular ductwork manufactured to DW144
- **Designed to fit in a standard ceiling void, eliminating the need for change in ducting strategy, use of access hatches and manifolds where high airflow rates are required**
- Available in 4 sizes: 300x100, 300x125, 400x100 and 400x125 (mm) - equivalent 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.



Example Residential Ventilation Layout

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

